APPENDIX C

ANALYTICAL RESULTS, LABORATORY ANALYTICAL REPORTS, AND CHAIN OF CUSTODY FORMS

PART 10
ANALYTICAL REPORTS
240-82399-1
240-82424-1
240-82458-1

(Note—To be provided on disc only)

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ANALYTICAL RESULTS FOR:

DEREK KINDER
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LOUISVILLE, KY 40201-0059

PROJECT SITE: RAVENNA AAP

DOD CONTRACT #: W912QR-10-D-24

TASK ORDER #: 0010

SDG: 82399

PREPARED: January 6, 2011

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The data contained in the following report have been reviewed by the appropriate CTLaboratories' staff members. In addition, CTLaboratories certifies that to the best of our knowledge that the analyses reported herein are true, complete and correct within the limits of the methods employed and that they follow the applicable requirements as specified by the project plan, state-specific, NELAC or DOD QSM requirements. The estimated uncertainty of measurement is only available upon request. The reported results relate only to the tested samples. This report shall not be reproduced, except in full, without written approval of CTLaboratories.

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Certifications: IL (NELAP 200046), KS (NELAP E-10368), KY (0023), PA (NELAP 68-04201), NJ (NELAP WI001), ND (R-171), WI (157066030), GA EDP Stipulation (Accreditor: ILNELAP, ACC#: 200465, Scope: Haz/solid water/Non-potable water, Effective : 11/19/2009, Expires: 09/30/2010)

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Case Narrative

Client: USACE - Louisville
Project: Ravenna AAP, Ravenna, OH
Sample Receipt Date: 11/10-11/2010
SDG #: 82399

Thirty soil samples were received for the Ravenna AAP project. The assigned sample ID number, date sampled, and date received are indicated in the attached Project Summary. The sample was received intact and at a temperature within method specified acceptance limits. A breakdown of sample receipt information can be found on the Sample Condition Report located in the last section of the data package and any exceptions are noted below. The samples were analyzed following the DOD QSM v. 4.1 unless otherwise noted.

The sample was first dried, ground via puck mill and homogenized prior to analysis.

The VOC soil samples that were received on 11/11/2010 in Terra Core kits were received improperly sampled. It appears several plugs of soil were placed in each vial and not a single plug as required. The client was contacted and notified of the issue. The client said to dispose of the VOC samples and they will recollect on a future date.

Sample Analysis and Quality Control

PCB Analysis:

The samples were analyzed using US EPA Method 8082. All samples were analyzed within the holding time. The following summaries of quality control procedures are included:

Surrogate Recovery Data
Matrix Spike/Matrix Spike Duplicate Recovery Data
Laboratory Control Spike Data
Method Blank Data
Initial Calibration Summary
Calibration Check Summary
Analysis Run Log
Prep Log
Chromatograms

All analysis results met the method specified quality control criteria with the following exceptions:

Analytical Run # 72009

All analysis results met the method/project specified quality control criteria.

Analytical Run # 72286

All analysis results met the method/project specified quality control criteria.

Client: USACE - Louisville
Project: Ravenna AAP, Ravenna, OH
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Semi-volatile Analysis:

The samples were analyzed using US EPA Method 8270. All samples were analyzed within the holding time. The following summaries of quality control procedures are included:

Surrogate Recovery Data
Matrix Spike/Matrix Spike Duplicate Recovery Data
Laboratory Control Spike Data
Method Blank Data
Initial Calibration Summary
Calibration Check Summary
Analysis Run Log
Prep Log
Chromatograms

All analysis results met the method specified quality control criteria with the following exceptions:

8270 Soil Analyses

Detailed reports were provided for the 8270 data for all detected compounds, as well as, for those compounds manually integrated (if applicable). Compounds not reported on the form 1's were either not detected or did not meet identification criteria so they were reported as non-detects.

Manual integrations may have been performed on the data provided with this package. If manual integrations were performed, a Reason #(s) was included on the raw data that corresponds to the "Index Key for Manual Integration Rationale". The raw data includes a "Before" and "After" manual integration illustration. The manual integrations were initialed and dated by the analyst, as well as, by the person reviewing the data.

Analytical run 72179

Continuing calibration verification 2CCV47 analyzed on 12/02/2010 had high responses for the following compounds: 3-nitroaniline (24.6%), 4-nitroaniline (21.8%), benzidine (58.3%), and 3,3'-dichlorobenzidine (42.4%). This CCV also had low responses of the fifth and sixth internal standards, chrysene-d12 and perylene-d12. This CCV was only associated with the confirmation run of LCS 874149.

LCS 874149 had low recoveries of benzidine and pyridine. The recoveries were confirmed by repeat analysis. These compounds were qualified with a "Q" in the associated samples.

The MS and the MSD for sample # 870201 had recoveries outside the QC limits for 4-chloroaniline, 3,3'-dichlorobenzidine, 3-nitroaniline, 4-nitroaniline, aniline, benzidine, benzoic acid, and pyridine.

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Semi-volatile Analysis Continued:

These results were confirmed by reanalysis, and parent sample results for these compounds were qualified with an "M" flag. All RPDs between the spikes were within the QC limits.

Analytical run 72359

LCS 877492 had a low recovery of pyridine. The recovery was confirmed by repeat analysis. This compound was qualified with a “Q” in the associated samples.

The MS and/or the MSD for sample # 870189 had recoveries outside the QC limits for 2,4-dimethylphenol, 2,4-dinitrophenol, 4-chloroaniline, 3,3’-dichlorobenzidine, 3-nitroaniline, aniline, benzidine, 4,6-dinitro-2-methylphenol, hexachlorocyclopentadiene, and pyridine. These results were confirmed by reanalysis, and parent sample results for these compounds were qualified with an "M" flag. The RPDs between the spikes were high for 4,6-dinitro-2-methylphenol and hexachlorocyclopentadiene. These compounds were qualified with a “Y” in the parent sample.

Explosives Analysis:

The samples were analyzed using US EPA Method 8330B. All samples were analyzed within the holding time. The following summaries of quality control procedures are included:

Surrogate Recovery Data
Matrix Spike/Matrix Spike Duplicate Recovery Data
Laboratory Control Spike Data
Method Blank Data
Initial Calibration Summary
Calibration Check Summary
Analysis Run Log
Prep Log
Chromatograms

All analysis results met the method specified quality control criteria with the following exceptions:

Manual integrations may have been performed on the data provided with this package. If manual integrations were performed, a Reason #(s) was included on the raw data that corresponds to the “Index Key for Manual Integration Rationale”. The raw data includes a “Before” and "After" manual integration illustration. The manual integrations were initialed and dated by the analyst, as well as, by the person reviewing the data.

Client: USACE - Louisville
Project: Ravenna AAP, Ravenna, OH
Sample Receipt Date: 11/10-11/2010
SDG #: 82399

Explosives Analysis Continued:

Several samples contained confirmed positive hits with primary and confirmation analysis values that were greater than 40% different from each other. In this case, the value was reported from the primary data and qualified with a P-flag. The primary and confirmation values are both listed, along with the relative percent difference (RPD) value, in a table that is included in the sample data section of this data package.

All analysis results for this SDG met the method/project specified quality control criteria with following exceptions:

Analytical Run #72413

Samples 870203, 871184, 871186 had high surrogate recoveries. Since there were no analyte hits in the samples, they were not analyzed on the confirmation column. The surrogate was qualified with an "S" flag.

Analytical Run # 72415

2-NT had high recovery in the matrix spike (MS) sample, but there were no analyte hits in the parent sample. No qualification was necessary.

Samples 870203, 871184, 871186 had high surrogate recoveries. Since there were no analyte hits in the samples, they were not analyzed on the confirmation column. The surrogate was qualified with an "S" flag.

Analytical Run #72412

The nitroguanidine (NQ) peak shapes in the client samples on the primary column analysis (sequence 121610NQ-primary) were irregular. They appeared to have something co-eluting with them, but splitting the contaminant from the NQ peak was not a good option. The NQ peaks on the confirmation column analysis had the correct shape and did not appear to have any co-eluting contamination issues. Therefore, all NQ data was reported from the confirmation column analysis on sequence 121610NQic-confirm.

Analytical Run #72414

The nitroguanidine (NQ) peak shapes in the client samples on the primary column analysis (sequence 121610NQ-primary) were irregular. They appeared to have something co-eluting with them, but splitting the contaminant from the NQ peak was not a good option. The NQ peaks on the confirmation column analysis had the correct shape and did not appear to have any co-eluting contamination issues. Therefore, all NQ data was reported from the confirmation column analysis on sequence 121610NQic-confirm.

Client: USACE - Louisville
Project: Ravenna AAP, Ravenna, OH
Sample Receipt Date: 11/10-11/2010
SDG #: 82399

Metals Analysis:

The samples were analyzed using US EPA SW-846 methodology 6010B for the ICP metals and 7471 for the mercury. All samples were analyzed within the holding time. The following summaries of quality control procedures are included:

Initial and Continuing Calibration Verification
Blanks Summary
ICP Interference Check Data
Spike Sample Recovery
Duplicates Data
Laboratory Control Sample Data
Analysis Run Log

All analysis results met the method specified quality control criteria with the following exceptions:

ICP Metals Analysis

Analytical Run # 71910

Barium and magnesium were detected above the Limit of Detection (LOD) in the calibration blank (ICB # 874979) that was analyzed prior to the sample analysis. There were no affected sample results bracketed by this calibration blank.

Calcium was detected above the LOD in the calibration blank (CCB # 878860). Affected sample results greater than 10 times the amount present in the blank were reported and qualified with a "B" flag.

The Continuing Calibration Verification (CCV # 874993) failed for calcium, cobalt, chromium and magnesium, while CCV (# 875079) failed high for calcium and cobalt. The affected samples were reanalyzed for these elements.

CCV (# 875077) failed for calcium, cobalt, chromium, magnesium and nickel, while CCV (# 875081) failed for calcium cobalt and magnesium. The affected samples were reanalyzed for these elements.

CCVs (#'s 874994 and 874996) failed for cobalt, chromium and nickel, while CCVs (#'s 875746 and 875748) failed for cobalt. The affected sample results were not reported for these elements.

CCV (# 875752) failed high for copper, nickel, lead, and antimony and low for cobalt and chromium. The affected sample results were not reported for these elements, with the exception of the antimony results that were less than the LOD.

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Project: Ravenna AAP, Ravenna, OH
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Metals Analysis Continued:

CCV (# 875750) failed high for copper, thallium and antimony and low for cobalt and manganese. The affected sample results were not reported for these elements, with the exception of the antimony and thallium results that were less than the LOD.

CCV (# 877041) failed high for selenium. The affected sample results were not reported for this element.

Calcium, copper, magnesium and vanadium were detected above the LOD in the calibration blank (CCB # 875080). There were no affected sample results bracketed by this blank.

Barium, copper, and thallium were detected above the LOD in the calibration blank (CCB # 875082); but the associated sample results for barium and copper were greater than 10 times the amount present in the blank. The sample results for these two elements were qualified with a "B" flag. The samples were reanalyzed for thallium.

Barium and copper were detected above the LOD in the calibration blank (CCB # 875747); but the associated sample results were greater than 10 times the amount present in the blank, so the samples were not reanalyzed. The sample results for these two elements were qualified with a "B" flag.

Barium, calcium, copper, magnesium, selenium, thallium and vanadium were detected above the LOD in the calibration blank (CCB # 875749). Associated sample results greater than ten times the amount present in the blank were reported and "B" qualified, while sample results less than the LOD were reported without qualification. Sample results greater than the LOD but less than ten times the blank result were reanalyzed.

Vanadium and selenium were detected above the LOD in the calibration blank (CCB # 875751); but the associated sample results for vanadium were greater than 10 times the amount present in the blank. The sample results for this element were qualified with a "B" flag. The samples with results less than the LOD were reported for selenium, otherwise they were reanalyzed.

Manganese was detected above the LOD in the calibration blank (CCB # 877044); but the associated sample results were greater than 10 times the amount present in the blank, so the samples were not reanalyzed. The sample results for this element were qualified with a "B" flag.

Manganese and selenium were detected above the LOD in the calibration blank (CCB # 877046); but the associated sample results for manganese were greater than 10 times the amount present in the blank. The sample results for this element were qualified with a "B" flag. The samples were reanalyzed for selenium.

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Metals Analysis Continued:

Calcium was detected above the LOD in the calibration blank (CCB # 878865); but the associated sample results were greater than 10 times the amount present in the blank, so the samples were not reanalyzed. The sample results for this element were qualified with a "B" flag.

Calcium was detected above the LOD in the calibration blank (CCB # 878867); but there were no associated sample results reported for this element.

Aluminum, iron, manganese and vanadium were detected above ½ the Reporting Limit (RL) in the Method Blank (MBS # 873322). The results for these elements in the associated samples were all greater than 10 times the MBS results; therefore, the sample data was not qualified because of the MBS contamination.

The samples were analyzed at various dilutions to reduce matrix interference and to obtain the results for some of the target elements within the calibration range of the instrument. Thallium, selenium, antimony, and silver were not detected in some of the diluted samples, so they were qualified with a "V" flag in regards to the elevated reporting limits.

Serial Dilution (L) # 875083 failed (10% RPD) for cadmium, copper, iron, selenium and zinc, and Serial Dilution # 877657 failed for thallium. Selenium and thallium were not applicable to the Serial Dilution test because the parent sample (# 870201) results for these elements were not greater than 50 times the Limit of Quantitation (LOQ). Three Post Digestion Spikes (PDSS #'s 875084, 877554, and 876019) were analyzed on this sample. The first PDSS (# 875084) was analyzed with acceptable recoveries for cadmium, selenium and zinc and a failing recovery for iron. The second PDSS (# 877554) was analyzed with an acceptable recovery for copper. The third PDSS (# 877657) was analyzed with an acceptable recovery for thallium. Those elements with acceptable PDSS recoveries were reported without qualification in the parent sample. The elements with failing recoveries were qualified with an "M" flag in the parent sample.

The Matrix Spike (MSS) and/or Matrix Spike Duplicate (MSDS) for sample #870201 failed for copper, iron, selenium, zinc, antimony, silver, lead, manganese, thallium, and chromium. A Serial Dilution was analyzed with an applicable and acceptable result for chromium; therefore, the PDSS result was not applicable for this element. A PDSS (# 875084) was analyzed with acceptable recoveries for selenium, antimony, lead, manganese, thallium and zinc and failing recoveries for iron and silver. PDSS (# 877554) was analyzed with an acceptable recovery for copper. Those elements with acceptable Serial Dilution results or PDSS recoveries were reported without qualification in the parent sample. The elements with failing recoveries were qualified with an "M" flag in the parent sample.

The Duplicate (DUP) results for sample # 870201 failed the RPD limits for antimony and thallium. The parent sample results for these elements were qualified with a "Y" flag.

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Project: Ravenna AAP, Ravenna, OH
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Metals Analysis Continued:

The DUP result for silver on sample # 870201 was not applicable because the parent sample result was less than 5 times the Limit of Quantitation (LOQ) for this element. An MSDS was analyzed to demonstrate precision and had an acceptable result.

Analytical Run # 71911

All analysis results met the method/project specified quality control criteria.

Analytical Run # 72201

Aluminum, barium, calcium, chromium, iron and magnesium were detected above the LOD in the calibration blank (ICB # 878881) that was analyzed prior to the sample analysis. There were no affected sample results bracketed by this calibration blank.

Iron and magnesium were detected above the LOD in the calibration blank (ICB # 881160) that was analyzed prior to the sample analysis. There were no affected sample results bracketed by this calibration blank.

The calibration verification (CCV # 878887) failed high for manganese, and the calibration verification (CCV # 878889) failed high for magnesium. There were no associated sample results reported for these elements.

Aluminum, barium, beryllium, calcium, cobalt, iron, magnesium, manganese, nickel, and thallium were detected above the LOD in the calibration blank (CCB # 878896). All associated sample results that were greater than 10 times the amount present in the blank were reported and qualified with a “B” flag, otherwise they were reanalyzed.

Aluminum, barium, calcium, cobalt, chromium, iron, magnesium, manganese, nickel, lead, thallium and vanadium were detected above the LOD in the calibration blank (CCB # 878903). All associated sample results that were greater than 10 times the amount present in the blank were reported and qualified with a “B” flag, otherwise they were reanalyzed.

Silver, aluminum, barium, beryllium, calcium, cobalt, chromium, iron, magnesium, manganese, nickel, lead, thallium and vanadium were detected above the LOD in the calibration blank (CCB # 878905). All associated sample results that were greater than 10 times the amount present in the blank were reported and qualified with a “B” flag, otherwise they were reanalyzed.

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Project: Ravenna AAP, Ravenna, OH
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Metals Analysis Continued:

Manganese and vanadium were detected above the LOD in the calibration blank (CCB # 881829), but all of the associated sample results were greater than 10 times the amount present in the blank for manganese; therefore, the samples were reported and qualified with a "B" flag for this element. There were no associated sample results reported for vanadium.

Manganese was detected above the LOD in the calibration blank (CCB # 881832), but all associated sample results were greater than 10 times the amount present in the blank. The samples were reported for this element and qualified with a "B" flag.

Chromium was detected above the LOD, and aluminum, barium, calcium, iron, magnesium, manganese were detected above ½ of the Reporting Limit (RL) in the Method Blank (MBS # 877402). The results for these elements in the associated samples were all greater than 10 times the MBS results; therefore, the sample data was not qualified because of the MBS contamination.

The samples were analyzed at a dilution to reduce matrix interference and to obtain the results for some of the target elements within the calibration range of the instrument. Thallium, selenium and silver were not detected in some of the diluted samples, so they were qualified with a "V" flag in regards to the elevated reporting limits.

Serial Dilution (L) # 878900 failed (10% RPD) for silver, arsenic, barium, cadmium, chromium and thallium. Silver, arsenic and cadmium were not applicable to the Serial Dilution test because the parent sample (# 869552) results for these elements were not greater than 50 times the LOQ. Two Post Digestion Spikes were analyzed on this sample. The first PDSS (# 878901) was analyzed with failing recoveries for silver, arsenic, barium, cadmium and chromium. The second PDSS (# 882030) was analyzed with an acceptable recovery for thallium. Those elements with acceptable PDSS recoveries were reported without qualification in the parent sample. The elements with failing recoveries were qualified with an "M" flag in the parent sample.

The MSS and/or MSDS for sample # 869552 failed for silver, arsenic, barium, cadmium, chromium, thallium, beryllium, calcium, cobalt, copper, iron, lead, magnesium, nickel, selenium, aluminum, antimony, vanadium, zinc and manganese. A Serial Dilution was analyzed with applicable and acceptable results for beryllium, calcium, cobalt, copper, iron, lead, magnesium, nickel, aluminum, vanadium, manganese and zinc; therefore, the PDSS results were not applicable for these elements. A PDSS (# 878901) was analyzed with failing recoveries for silver, arsenic, barium, cadmium, chromium, selenium and antimony. PDSS (# 882030) was analyzed with an acceptable recovery for thallium. Those elements with acceptable Serial Dilution results or PDSS recoveries were reported without qualification in the parent sample. The elements with non-applicable Serial Dilution results and failing PDSS recoveries were qualified with an "M" flag in the parent sample.

Client: USACE - Louisville
Project: Ravenna AAP, Ravenna, OH
Sample Receipt Date: 11/10-11/2010
SDG #: 82399

Metals Analysis Continued:

The DUP result for sample # 869552 exceeded the RPD limit for cadmium. The parent sample result for this element was qualified with a "Y" flag.

The DUP results for silver and selenium on sample # 869552 were not applicable because the parent sample results were less than 5 times the LOQ for these elements. An MSDS was analyzed to demonstrate precision, but the RPD limits were exceeded for these elements. These elements were qualified with a "Y" flag in the parent sample.

Analytical Run # 72202

All analysis results met the method/project specified quality control criteria.

Analytical Run # 72203

Aluminum, barium, calcium, chromium, iron and magnesium were detected above the LOD in the calibration blank (ICB # 878854) that was analyzed prior to sample analysis. There were no affected sample results bracketed by this calibration blank.

Iron and magnesium were detected above the LOD in the calibration blank (ICB # 881167) that was analyzed prior to sample analysis. There were no affected sample results bracketed by this calibration blank.

Aluminum, barium, calcium and thallium were detected above the LOD in the calibration blank (CCB # 879411). All of the associated sample results for aluminum, barium, and calcium were greater than 10 times the amount present in the blank; therefore, these elements were reported and qualified with a "B" flag. The associated samples were reanalyzed for thallium.

Aluminum, barium, calcium, cobalt, chromium, manganese and thallium were detected above the LOD in the calibration blank (CCB # 879414). All of the associated sample results for aluminum, barium, calcium, cobalt and chromium were greater than 10 times the amount present in the blank; therefore, these elements were reported and qualified with a "B" flag. The associated samples with results less than the LOD for thallium were reported without qualification; otherwise, they were reanalyzed for this element. All associated samples were reanalyzed for manganese.

Aluminum, barium, calcium, cobalt, chromium, iron, magnesium, manganese, nickel, selenium and thallium were detected above the LOD in the calibration blank (CCB # 879417). The associated sample results greater than ten times the amount present in the blank were reported and "B" qualified, and sample results less than the LOD were reported without qualification; otherwise, the samples were reanalyzed.

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Metals Analysis Continued:

Aluminum, barium, beryllium, calcium, cobalt, iron, magnesium, manganese, nickel and thallium were detected above the LOD in the calibration blank (CCB # 879419). All of the associated sample results were greater than 10 times the amount present in the blank for aluminum, barium, beryllium, calcium, cobalt, iron, manganese and nickel; therefore, these elements were reported and qualified with a "B" flag. The associated samples were reanalyzed for magnesium and thallium.

Selenium was detected above the LOD in the calibration blank (CCB # 881172), but there were no sample results associated to this blank for this element.

Chromium and vanadium were detected above the LOD, and aluminum, barium, calcium, iron, magnesium and manganese were detected above ½ of the RL in the Method Blank (MBS # 877407). The results for these elements in the associated samples were all greater than 10 times the MBS results; therefore, the sample data was not qualified because of the MBS contamination.

The samples were analyzed at a dilution to reduce matrix interference and to obtain the results for some of the target elements within the calibration range of the instrument. Thallium, selenium, antimony and silver were not detected in some of the diluted samples, so they were qualified with a "V" flag in regards to the elevated reporting limits.

Serial Dilution (L) # 879412 failed (10% RPD) for silver, arsenic, cadmium, cobalt, copper, nickel, lead and zinc, and Serial Dilution # 881765 failed for magnesium. Silver, arsenic and cadmium were not applicable to the Serial Dilution test because the parent sample (# 870189) results for these elements were not greater than 50 times the LOQ. Two Post Digestion Spikes were analyzed on this sample. The first PDSS (# 879415) was analyzed with acceptable recoveries for silver and arsenic and failing recoveries for cadmium, cobalt, copper, nickel, lead and zinc. The second PDSS (# 881766) was analyzed with an acceptable recovery for magnesium. Those elements with acceptable PDSS recoveries were reported without qualification in the parent sample. The elements with failing recoveries were qualified with an "M" flag in the parent sample.

The MSS and/or MSDS for sample # 870189 failed for cadmium, cobalt, copper, nickel, lead, zinc, magnesium, selenium, chromium, antimony, vanadium, iron, manganese and thallium. A Serial Dilution was analyzed with applicable and acceptable results for chromium, antimony, vanadium, iron and manganese; therefore, the PDSS results were not applicable for these elements. A PDSS (# 879415) was analyzed with acceptable recoveries for silver, selenium and arsenic and failing recoveries for cadmium, cobalt, copper, nickel, lead and zinc. PDSS (# 881766) was analyzed with acceptable recoveries for magnesium and thallium. Those elements with acceptable Serial Dilution results or PDSS recoveries were reported without qualification in the parent sample. The elements with non-applicable Serial Dilution results and failing PDSS recoveries were qualified with an "M" flag in the parent sample.

Client: USACE - Louisville
Project: Ravenna AAP, Ravenna, OH
Sample Receipt Date: 11/10-11/2010
SDG #: 82399

Metals Analysis Continued:

The DUP result for sample # 870189 exceeded the RPD limit for cadmium. The parent sample result for this element was qualified with a "Y" flag.

Analytical Run # 72204

All analysis results met the method/project specified quality control criteria.

CVAA Mercury Analysis

Analytical Run # 72018

Serial Dilution (L) # 875793 failed (>10% RPD) for mercury. Mercury was not applicable to the Serial Dilution test because the parent sample (# 870201) result for this element was not greater than 50 times the LOQ. A Post Digestion Spike (PDSS # 875794) was analyzed on this sample.

The Matrix Spike (MSS) and PDSS for sample #870201 failed for mercury. This element was qualified with an "M" flag in the parent sample.

Analytical Run # 72326

The DUP result for mercury on sample # 869552 was not applicable because the parent sample result was less than 5 times the LOQ for this element. An MSDS was analyzed to demonstrate precision, but the RPD limit was exceeded; therefore, this element was qualified with an "Y" flag in the parent sample.

The MSDS for sample # 869552 failed low for mercury, but a PDSS (# 879516) was analyzed with an acceptable recovery for this element. This element was reported without qualification in the parent sample.

Analytical Run # 72327

The MSS and MSDS, for sample # 870189, failed low for mercury, but a PDSS (# 879542) was analyzed with an acceptable recovery for this element. This element was reported without qualification in the parent sample.

Inorganic Analyses:

The samples were analyzed using US EPA Methods 7196A and 9056M. All samples were analyzed within the holding time. The following summaries of quality control procedures are included:

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Inorganics Analysis Continued:

Duplicate Analysis Data
Laboratory Control Spike Data
Method Blank Data
Initial Calibration Summary
Calibration Check Summary
Analysis Run Log
Prep Log

All analysis results for this SDG met the method/project specified quality control criteria with the following exceptions:

Hex chrome Analyses

Analytical Run # 71974

The Soluble Matrix Spike (MSS), Insoluble Matrix Spike (MSS) and the Post Digestion Spike (PDSS) for sample # 870201 had a low recovery. The sample was reducing in nature. The parent sample result was qualified with an "M" flag.

Analytical Run # 72278

The Insoluble Matrix Spike (MSS) for sample #870189 was inadvertently reported with an over range value. The analyst re-prepped the sample and associated Quality Control samples.
The Soluble Matrix Spike (MSS), Insoluble Matrix Spike (MSS) and the Post Digestion Spike (PDSS) for sample # 870189 had a low recovery. The sample was reducing in nature. The parent sample result was qualified with an "M" flag.

Analytical Run # 72342

The Soluble Matrix Spike (MSS), Insoluble Matrix Spike (MSS) and the Post Digestion Spike (PDSS) for sample # 870194 had a low recovery. The sample was reducing in nature. The parent sample result was qualified with an "M" flag.

Nitrocellulose Analyses

Analytical Run # 72420

All analysis results for this SDG met the method/project specified quality control criteria.

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Data Qualifiers

Code	Description
A	Analyte averaged calibration criteria within acceptable limits.
B	Analyte detected in associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
U	Analyte concentration was not above the detection level.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Calibration criteria exceeded.

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MANUAL INTEGRATION REASON CODES

CTLaboratories has identified four general cases with valid reasons supporting the use of manual integration techniques. These codes are used on chromatograms in this data package to document the reasons for manual integrations per CTLaboratories' SOP SS-10 current revision.

#1: **Data system failed to select the correct peak or missed the peak entirely.**
In some cases the chromatography system selects and integrates the "wrong peak". In this case the analyst must correct the selection and force the system to integrate the proper peak. In other instances the system may miss the peak completely. In this case the analyst manually integrated the peak

#2: **Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak.**
This phenomenon is common at low concentrations where the signal to noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low or high area counts for the target compound.

#3: Improperly Integrated Isomers and/or coeluting compounds.
For when the system fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations may be inaccurate, and they must be corrected by manual integration. Prime examples are compounds that are unresolved and integrated improperly when present at low concentrations in standards or samples.

#4: System Established Incorrect Baseline.
There are numerous situations in chromatography where the system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and may be corrected via manual procedures.

#5: Miscellaneous.
Some situations involving integration errors may require in-depth review and technical judgment. These cases should be brought to the attention of the group supervisor. If the form of manual integration is not clearly covered by these four cases, then review and approval by the group supervisor or the *QA/QC* Supervisor will be required.

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Sample Delivery Group

82399

USACE - LOUISVILLE
DEREK KINDER
600 DR MLKJ PLACE
PO BOX 59 ROOM 921
LOUISVILLE, KY 40201-0059

Project Name: RAVENNA
Project #: W912QR-10-D-0024

CT Sample #	Folder #	Client Sample #	Sample Description	Matrix	Date Sampled	Date Received
869552	82399		DLASS-010-0001-SO	SOIL	11/09/2010	11/10/2010
869553	82399		DLASS-019-0001-SO	SOIL	11/09/2010	11/10/2010
869554	82399		DLASS-009-0001-SO	SOIL	11/09/2010	11/10/2010
869555	82399		DLASS-024-0001-SO	SOIL	11/09/2010	11/10/2010
869556	82399		DLASS-004-0001-SO	SOIL	11/09/2010	11/10/2010
870188	82424		DLASS-027-0001-SO	SOIL	11/10/2010	11/11/2010
870189	82424		DLASS-002-0001-SO	SOIL	11/10/2010	11/11/2010
870190	82424		DLASS-018-0001-SO	SOIL	11/10/2010	11/11/2010
870191	82424		DLASS-001-0001-SO	SOIL	11/10/2010	11/11/2010
870192	82424		DLASS-016-0001-SO	SOIL	11/10/2010	11/11/2010
870193	82424		DLASS-017-0001-SO	SOIL	11/10/2010	11/11/2010
870194	82424		DLASS-022-0001-SO	SOIL	11/09/2010	11/11/2010
870195	82424		DLASS-022-0003-SO	SOIL	11/09/2010	11/11/2010
870196	82424		DLASS-008-0001-SO	SOIL	11/09/2010	11/11/2010
870197	82424		DLASS-021-0001-SO	SOIL	11/09/2010	11/11/2010
870200	82424		DLASS-005-0001-SO	SOIL	11/09/2010	11/11/2010
870201	82424		DLASS-014-0001-SO	SOIL	11/09/2010	11/11/2010
870202	82424		DLASS-011-0001-SO	SOIL	11/09/2010	11/11/2010
870203	82424		DLASS-014-0003-SO	SOIL	11/09/2010	11/11/2010
870204	82424		DLASS-030-0001-SO	SOIL	11/10/2010	11/11/2010
870207	82424		DLASS-026-0001-SO	SOIL	11/09/2010	11/11/2010
870208	82424		DLASS-029-0001-SO	SOIL	11/09/2010	11/11/2010
870209	82424		DLASS-007-0001-SO	SOIL	11/09/2010	11/11/2010
870210	82424		DLASS-020-0001-SO	SOIL	11/09/2010	11/11/2010
870211	82424		DLASS-028-0001-SO	SOIL	11/09/2010	11/11/2010
870212	82424		DLASS-002-0003-SO	SOIL	11/10/2010	11/11/2010
870213	82424		DLASS-012-0001-SO	SOIL	11/09/2010	11/11/2010
870214	82424		DLASS-025-0001-SO	SOIL	11/09/2010	11/11/2010
870215	82424		DLASS-006-0001-SO	SOIL	11/09/2010	11/11/2010
870216	82424		DLASS-013-0001-SO	SOIL	11/09/2010	11/11/2010

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QC Batch Cross Reference Summary

USACE - LOUISVILLE
DEREK KINDER
600 DR MLKJ PLACE
PO BOX 59 ROOM 921
LOUISVILLE, KY 40201-0059

Project Name:	RAVENNA
Project #:	W912QR-10-D-0024
Report Date:	12/29/2010
Date Received:	11/10/2010
SDG #:	82399

Inorganic Parameters

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
869552	Solids, Percent	SOIL		72193
869553	Solids, Percent	SOIL		72193
869554	Solids, Percent	SOIL		72193
869555	Solids, Percent	SOIL		72193
869556	Solids, Percent	SOIL		72193
870188	Solids, Percent	SOIL		72192
870189	Solids, Percent	SOIL		72192
870190	Solids, Percent	SOIL		72192
870191	Solids, Percent	SOIL		72192
870192	Solids, Percent	SOIL		72192
870193	Solids, Percent	SOIL		72192
870194	Solids, Percent	SOIL		72192
870195	Solids, Percent	SOIL		72192
870196	Solids, Percent	SOIL		72192
870197	Solids, Percent	SOIL		72192
870200	Solids, Percent	SOIL		71954
870201	Solids, Percent	SOIL		71954
870202	Solids, Percent	SOIL		71954
870203	Solids, Percent	SOIL		71954
870204	Solids, Percent	SOIL		71954
870207	Solids, Percent	SOIL		71954
870208	Solids, Percent	SOIL		72192
870209	Solids, Percent	SOIL		72192
870210	Solids, Percent	SOIL		72192
870211	Solids, Percent	SOIL		72192
870212	Solids, Percent	SOIL		72192
870213	Solids, Percent	SOIL		72192
870214	Solids, Percent	SOIL		72192
870215	Solids, Percent	SOIL		72192

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Project Name: RAVENNA
Project #: W912QR-10-D-0024
SDG #: 82399

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
870216	Solids, Percent	SOIL		72192

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
870189	Nitrocellulose	SOIL	35693	72420
870194	Nitrocellulose	SOIL	35693	72420
870195	Nitrocellulose	SOIL	35693	72420
870201	Nitrocellulose	SOIL	35693	72420
870203	Nitrocellulose	SOIL	35693	72420
870212	Nitrocellulose	SOIL	35693	72420

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
869552	Hexavalent Chromium-QSM Soil	SOIL	35690	72278
869553	Hexavalent Chromium-QSM Soil	SOIL	35690	72278
869554	Hexavalent Chromium-QSM Soil	SOIL	35690	72278
869555	Hexavalent Chromium-QSM Soil	SOIL	35690	72278
869556	Hexavalent Chromium-QSM Soil	SOIL	35690	72278
870188	Hexavalent Chromium-QSM Soil	SOIL	35690	72278
870189	Hexavalent Chromium-QSM Soil	SOIL	35690	72278
870190	Hexavalent Chromium-QSM Soil	SOIL	35690	72278
870191	Hexavalent Chromium-QSM Soil	SOIL	35690	72278
870192	Hexavalent Chromium-QSM Soil	SOIL	35690	72278
870193	Hexavalent Chromium-QSM Soil	SOIL	35690	72278
870194	Hexavalent Chromium-QSM Soil	SOIL	35712	72342
870195	Hexavalent Chromium-QSM Soil	SOIL	35712	72342
870196	Hexavalent Chromium-QSM Soil	SOIL	35712	72342
870197	Hexavalent Chromium-QSM Soil	SOIL	35712	72342
870200	Hexavalent Chromium-QSM Soil	SOIL	35540	71974
870201	Hexavalent Chromium-QSM Soil	SOIL	35540	71974
870202	Hexavalent Chromium-QSM Soil	SOIL	35540	71974
870203	Hexavalent Chromium-QSM Soil	SOIL	35540	71974
870204	Hexavalent Chromium-QSM Soil	SOIL	35540	71974
870207	Hexavalent Chromium-QSM Soil	SOIL	35540	71974
870208	Hexavalent Chromium-QSM Soil	SOIL	35712	72342
870209	Hexavalent Chromium-QSM Soil	SOIL	35712	72342
870210	Hexavalent Chromium-QSM Soil	SOIL	35712	72342
870211	Hexavalent Chromium-QSM Soil	SOIL	35712	72342
870212	Hexavalent Chromium-QSM Soil	SOIL	35712	72342
870213	Hexavalent Chromium-QSM Soil	SOIL	35712	72342
870214	Hexavalent Chromium-QSM Soil	SOIL	35712	72342
870215	Hexavalent Chromium-QSM Soil	SOIL	35712	72342
870216	Hexavalent Chromium-QSM Soil	SOIL	35712	72342

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Project Name: RAVENNA
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SDG #: 82399

Metal Parameters

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
869552	ICP Metals QSM	SOIL	35623	72201
869553	ICP Metals QSM	SOIL	35623	72201
869554	ICP Metals QSM	SOIL	35623	72201
869555	ICP Metals QSM	SOIL	35623	72201
869556	ICP Metals QSM	SOIL	35623	72201
870188	ICP Metals QSM	SOIL	35624	72203
870189	ICP Metals QSM	SOIL	35624	72203
870190	ICP Metals QSM	SOIL	35624	72203
870191	ICP Metals QSM	SOIL	35624	72203
870192	ICP Metals QSM	SOIL	35624	72203
870193	ICP Metals QSM	SOIL	35624	72203
870194	ICP Metals QSM	SOIL	35624	72203
870195	ICP Metals QSM	SOIL	35624	72203
870196	ICP Metals QSM	SOIL	35624	72203
870197	ICP Metals QSM	SOIL	35624	72203
870200	ICP Metals QSM	SOIL	35475	71910
870201	ICP Metals QSM	SOIL	35475	71910
870202	ICP Metals QSM	SOIL	35475	71910
870203	ICP Metals QSM	SOIL	35475	71910
870204	ICP Metals QSM	SOIL	35475	71910
870207	ICP Metals QSM	SOIL	35475	71910
870208	ICP Metals QSM	SOIL	35624	72203
870209	ICP Metals QSM	SOIL	35624	72203
870210	ICP Metals QSM	SOIL	35624	72203
870211	ICP Metals QSM	SOIL	35624	72203
870212	ICP Metals QSM	SOIL	35624	72203
870213	ICP Metals QSM	SOIL	35624	72203
870214	ICP Metals QSM	SOIL	35624	72203
870215	ICP Metals QSM	SOIL	35624	72203
870216	ICP Metals QSM	SOIL	35624	72203
869552	ICP Metals QSM	SOIL	35623	72201
869553	ICP Metals QSM	SOIL	35623	72201
869554	ICP Metals QSM	SOIL	35623	72201
869555	ICP Metals QSM	SOIL	35623	72201
869556	ICP Metals QSM	SOIL	35623	72201
870188	ICP Metals QSM	SOIL	35624	72203
870189	ICP Metals QSM	SOIL	35624	72203
870190	ICP Metals QSM	SOIL	35624	72203
870191	ICP Metals QSM	SOIL	35624	72203

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Project Name: RAVENNA
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CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
870192	ICP Metals QSM	SOIL	35624	72203
870193	ICP Metals QSM	SOIL	35624	72203
870194	ICP Metals QSM	SOIL	35624	72203
870195	ICP Metals QSM	SOIL	35624	72203
870196	ICP Metals QSM	SOIL	35624	72203
870197	ICP Metals QSM	SOIL	35624	72203
870200	ICP Metals QSM	SOIL	35475	71910
870201	ICP Metals QSM	SOIL	35475	71910
870202	ICP Metals QSM	SOIL	35475	71910
870203	ICP Metals QSM	SOIL	35475	71910
870204	ICP Metals QSM	SOIL	35475	71910
870207	ICP Metals QSM	SOIL	35475	71910
870208	ICP Metals QSM	SOIL	35624	72203
870209	ICP Metals QSM	SOIL	35624	72203
870210	ICP Metals QSM	SOIL	35624	72203
870211	ICP Metals QSM	SOIL	35624	72203
870212	ICP Metals QSM	SOIL	35624	72203
870213	ICP Metals QSM	SOIL	35624	72203
870214	ICP Metals QSM	SOIL	35624	72203
870215	ICP Metals QSM	SOIL	35624	72203
870216	ICP Metals QSM	SOIL	35624	72203
869552	ICP Metals QSM	SOIL	35623	72201
869553	ICP Metals QSM	SOIL	35623	72201
869554	ICP Metals QSM	SOIL	35623	72201
869555	ICP Metals QSM	SOIL	35623	72201
869556	ICP Metals QSM	SOIL	35623	72201
870188	ICP Metals QSM	SOIL	35624	72203
870189	ICP Metals QSM	SOIL	35624	72203
870190	ICP Metals QSM	SOIL	35624	72203
870192	ICP Metals QSM	SOIL	35624	72203
870193	ICP Metals QSM	SOIL	35624	72203
870195	ICP Metals QSM	SOIL	35624	72203
870196	ICP Metals QSM	SOIL	35624	72203
870197	ICP Metals QSM	SOIL	35624	72203
870200	ICP Metals QSM	SOIL	35475	71910
870201	ICP Metals QSM	SOIL	35475	71910
870202	ICP Metals QSM	SOIL	35475	71910
870203	ICP Metals QSM	SOIL	35475	71910
870204	ICP Metals QSM	SOIL	35475	71910
870207	ICP Metals QSM	SOIL	35475	71910
870208	ICP Metals QSM	SOIL	35624	72203
870209	ICP Metals QSM	SOIL	35624	72203

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Project Name: RAVENNA
Project #: W912QR-10-D-0024
SDG #: 82399

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
870210	ICP Metals QSM	SOIL	35624	72203
870211	ICP Metals QSM	SOIL	35624	72203
870212	ICP Metals QSM	SOIL	35624	72203
870213	ICP Metals QSM	SOIL	35624	72203
870214	ICP Metals QSM	SOIL	35624	72203
870215	ICP Metals QSM	SOIL	35624	72203
870216	ICP Metals QSM	SOIL	35624	72203
869555	ICP Metals QSM	SOIL	35623	72201
869556	ICP Metals QSM	SOIL	35623	72201
870190	ICP Metals QSM	SOIL	35624	72203
870197	ICP Metals QSM	SOIL	35624	72203
870200	ICP Metals QSM	SOIL	35475	71910
870201	ICP Metals QSM	SOIL	35475	71910
870202	ICP Metals QSM	SOIL	35475	71910
870203	ICP Metals QSM	SOIL	35475	71910
870204	ICP Metals QSM	SOIL	35475	71910
870207	ICP Metals QSM	SOIL	35475	71910
870208	ICP Metals QSM	SOIL	35624	72203
870209	ICP Metals QSM	SOIL	35624	72203
870210	ICP Metals QSM	SOIL	35624	72203
870211	ICP Metals QSM	SOIL	35624	72203
870214	ICP Metals QSM	SOIL	35624	72203
870215	ICP Metals QSM	SOIL	35624	72203
870216	ICP Metals QSM	SOIL	35624	72203
869555	ICP Metals QSM	SOIL	35623	72201
870204	ICP Metals QSM	SOIL	35475	71910
870207	ICP Metals QSM	SOIL	35475	71910

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
869552	Potassium QSM	SOIL	35623	72202
869553	Potassium QSM	SOIL	35623	72202
869554	Potassium QSM	SOIL	35623	72202
869555	Potassium QSM	SOIL	35623	72202
869556	Potassium QSM	SOIL	35623	72202
870188	Potassium QSM	SOIL	35624	72204
870189	Potassium QSM	SOIL	35624	72204
870190	Potassium QSM	SOIL	35624	72204
870191	Potassium QSM	SOIL	35624	72204
870192	Potassium QSM	SOIL	35624	72204
870193	Potassium QSM	SOIL	35624	72204
870194	Potassium QSM	SOIL	35624	72204
870195	Potassium QSM	SOIL	35624	72204

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Project Name: RAVENNA
Project #: W912QR-10-D-0024
SDG #: 82399

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
870196	Potassium QSM	SOIL	35624	72204
870197	Potassium QSM	SOIL	35624	72204
870200	Potassium QSM	SOIL	35475	71911
870201	Potassium QSM	SOIL	35475	71911
870202	Potassium QSM	SOIL	35475	71911
870203	Potassium QSM	SOIL	35475	71911
870204	Potassium QSM	SOIL	35475	71911
870207	Potassium QSM	SOIL	35475	71911
870208	Potassium QSM	SOIL	35624	72204
870209	Potassium QSM	SOIL	35624	72204
870210	Potassium QSM	SOIL	35624	72204
870211	Potassium QSM	SOIL	35624	72204
870212	Potassium QSM	SOIL	35624	72204
870213	Potassium QSM	SOIL	35624	72204
870214	Potassium QSM	SOIL	35624	72204
870215	Potassium QSM	SOIL	35624	72204
870216	Potassium QSM	SOIL	35624	72204

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
869552	Sodium QSM	SOIL	35623	72202
869553	Sodium QSM	SOIL	35623	72202
869554	Sodium QSM	SOIL	35623	72202
869555	Sodium QSM	SOIL	35623	72202
869556	Sodium QSM	SOIL	35623	72202
870188	Sodium QSM	SOIL	35624	72204
870189	Sodium QSM	SOIL	35624	72204
870190	Sodium QSM	SOIL	35624	72204
870191	Sodium QSM	SOIL	35624	72204
870192	Sodium QSM	SOIL	35624	72204
870193	Sodium QSM	SOIL	35624	72204
870194	Sodium QSM	SOIL	35624	72204
870195	Sodium QSM	SOIL	35624	72204
870196	Sodium QSM	SOIL	35624	72204
870197	Sodium QSM	SOIL	35624	72204
870200	Sodium QSM	SOIL	35475	71911
870201	Sodium QSM	SOIL	35475	71911
870202	Sodium QSM	SOIL	35475	71911
870203	Sodium QSM	SOIL	35475	71911
870204	Sodium QSM	SOIL	35475	71911
870207	Sodium QSM	SOIL	35475	71911
870208	Sodium QSM	SOIL	35624	72204
870209	Sodium QSM	SOIL	35624	72204

CT LABORATORIES
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Project Name: RAVENNA
Project #: W912QR-10-D-0024
SDG #: 82399

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
870210	Sodium QSM	SOIL	35624	72204
870211	Sodium QSM	SOIL	35624	72204
870212	Sodium QSM	SOIL	35624	72204
870213	Sodium QSM	SOIL	35624	72204
870214	Sodium QSM	SOIL	35624	72204
870215	Sodium QSM	SOIL	35624	72204
870216	Sodium QSM	SOIL	35624	72204

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
869552	Mercury QSM	SOIL	35686	72326
869553	Mercury QSM	SOIL	35686	72326
869554	Mercury QSM	SOIL	35686	72326
869555	Mercury QSM	SOIL	35686	72326
869556	Mercury QSM	SOIL	35686	72326
870188	Mercury QSM	SOIL	35687	72327
870189	Mercury QSM	SOIL	35687	72327
870190	Mercury QSM	SOIL	35687	72327
870191	Mercury QSM	SOIL	35687	72327
870192	Mercury QSM	SOIL	35687	72327
870193	Mercury QSM	SOIL	35687	72327
870194	Mercury QSM	SOIL	35687	72327
870195	Mercury QSM	SOIL	35687	72327
870196	Mercury QSM	SOIL	35687	72327
870197	Mercury QSM	SOIL	35687	72327
870200	Mercury QSM	SOIL	35531	72018
870201	Mercury QSM	SOIL	35531	72018
870202	Mercury QSM	SOIL	35531	72018
870203	Mercury QSM	SOIL	35531	72018
870204	Mercury QSM	SOIL	35531	72018
870207	Mercury QSM	SOIL	35531	72018
870208	Mercury QSM	SOIL	35687	72327
870209	Mercury QSM	SOIL	35687	72327
870210	Mercury QSM	SOIL	35687	72327
870211	Mercury QSM	SOIL	35687	72327
870212	Mercury QSM	SOIL	35687	72327
870213	Mercury QSM	SOIL	35687	72327
870214	Mercury QSM	SOIL	35687	72327
870215	Mercury QSM	SOIL	35687	72327
870216	Mercury QSM	SOIL	35687	72327

Organic Parameters

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Project Name: RAVENNA
Project #: W912QR-10-D-0024
SDG #: 82399

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
870189	SVOC 8270 QSM	SOIL	35631	72359
870194	SVOC 8270 QSM	SOIL	35631	72359
870195	SVOC 8270 QSM	SOIL	35631	72359
870201	SVOC 8270 QSM	SOIL	35517	72179
870203	SVOC 8270 QSM	SOIL	35517	72179
870212	SVOC 8270 QSM	SOIL	35631	72359

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
870189	PCB	SOIL	35630	72286
870194	PCB	SOIL	35630	72286
870195	PCB	SOIL	35630	72286
870201	PCB	SOIL	35516	72009
870203	PCB	SOIL	35516	72009
870212	PCB	SOIL	35630	72286

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
870189	Explosives by 8330	SOIL	35670	72414
870194	Explosives by 8330	SOIL	35670	72414
870195	Explosives by 8330	SOIL	35670	72414
870201	Explosives by 8330	SOIL	35573	72412
870203	Explosives by 8330	SOIL	35573	72412
870212	Explosives by 8330	SOIL	35670	72414

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
870189	Explosives by 8330	SOIL	35669	72415
870194	Explosives by 8330	SOIL	35669	72415
870195	Explosives by 8330	SOIL	35669	72415
870201	Explosives by 8330	SOIL	35571	72413
870203	Explosives by 8330	SOIL	35571	72413
870212	Explosives by 8330	SOIL	35669	72415

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
869552	Homogenization/Multi Incremental Prep	SOIL		72199
869553	Homogenization/Multi Incremental Prep	SOIL		72199
869554	Homogenization/Multi Incremental Prep	SOIL		72199
869555	Homogenization/Multi Incremental Prep	SOIL		72199
869556	Homogenization/Multi Incremental Prep	SOIL		72199

SEMI-VOLATILE ORGANIC ANALYSIS
QUALITY CONTROL SUMMARY
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CT LABORATORIES
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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

DLASS-002-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82399
Sample wt/vol:	9.96 (g/L)	CTL Sample ID:	870189
% Solids:	98.1	Date Received:	11/11/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	12/03/2010 / 15:00
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35631
Analytical Run #:	72359	Dilution Factor:	1.00
Date & Time Analyzed:	12/08/2010 / 20:59	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
120-82-1	1,2,4-Trichlorobenzene	21	U	21	100	410	410
95-50-1	1,2-Dichlorobenzene	25	U	25	100	410	410
541-73-1	1,3-Dichlorobenzene	20	U	20	100	410	410
106-46-7	1,4-Dichlorobenzene	19	U	19	100	410	410
90-12-0	1-Methylnaphthalene	26	U	26	100	410	410
95-95-4	2,4,5-Trichlorophenol	130	U	130	410	510	510
88-06-2	2,4,6-Trichlorophenol	130	U	130	410	510	510
120-83-2	2,4-Dichlorophenol	120	U	120	410	510	510
105-67-9	2,4-Dimethylphenol	100	U M	100	100	410	410
51-28-5	2,4-Dinitrophenol	710	U M	710	1000	2000	2400
121-14-2	2,4-Dinitrotoluene	25	U	25	100	410	410
87-65-0	2,6-Dichlorophenol	140	U	140	410	510	510
606-20-2	2,6-Dinitrotoluene	25	U	25	100	410	410
91-58-7	2-Chloronaphthalene	24	U	24	100	410	410
95-57-8	2-Chlorophenol	350	U	350	410	510	1100
91-57-6	2-Methylnaphthalene	36	J	26	100	410	410
95-48-7	2-Methylphenol	430	U	430	510	1000	1400
88-74-4	2-Nitroaniline	24	U	24	100	410	410
88-75-5	2-Nitrophenol	290	U	290	410	510	960
1319-77-3	3 & 4-Methylphenol	670	U	670	1000	2000	2300
91-94-1	3,3'-Dichlorobenzidine	150	U M	150	410	510	510
99-09-2	3-Nitroaniline	23	U M	23	410	1000	1000
534-52-1	4,6-Dinitro-2-methylphenol	280	U M,Y	280	410	1000	1000
101-55-3	4-Bromophenyl-phenyl ether	26	U	26	100	410	410

CT LABORATORIES
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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

DLASS-002-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82399
Sample wt/vol:	9.96 (g/L)	CTL Sample ID:	870189
% Solids:	98.1	Date Received:	11/11/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	12/03/2010 / 15:00
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35631
Analytical Run #:	72359	Dilution Factor:	1.00
Date & Time Analyzed:	12/08/2010 / 20:59	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
	Concentration Units:	ug/kg	

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
59-50-7	4-Chloro-3-methylphenol	390	U	390	410	510	1300
106-47-8	4-Chloroaniline	40	U M	40	100	410	410
7005-72-3	4-Chlorophenyl-phenyl ether	27	U	27	100	410	410
100-01-6	4-Nitroaniline	31	U	31	410	1000	1000
100-02-7	4-Nitrophenol	410	U	410	410	1000	1300
83-32-9	Acenaphthene	25	U	25	100	410	410
208-96-8	Acenaphthylene	33	J	25	100	410	410
98-86-2	Acetophenone	77	U	77	100	410	410
62-53-3	Aniline	32	U M	32	100	410	410
120-12-7	Anthracene	97	J	25	100	410	410
103-33-3/122-66-7	Azobenzene & 1,2-Diphenylhydra	56	U	56	200	820	820
92-87-5	Benzidine	970	U M	970	1000	2000	3300
56-55-3	Benzo(a)anthracene	370	J	26	100	410	410
50-32-8	Benzo(a)pyrene	280	J	24	100	410	410
205-99-2	Benzo(b)fluoranthene	440		26	100	410	410
191-24-2	Benzo(g,h,i)perylene	150	J	23	100	410	410
207-08-9	Benzo(k)fluoranthene	170	J	26	100	410	410
65-85-0	Benzoic acid	350	J	300	510	2000	2000
100-51-6	Benzyl alcohol	85	U	85	510	1000	1000
111-91-1	Bis(2-chloroethoxy)methane	24	U	24	100	410	410
111-44-4	Bis(2-chloroethyl)ether	26	U	26	100	410	410
108-60-1	Bis(2-chloroisopropyl)ether	31	U	31	100	410	410
117-81-7	Bis(2-ethylhexyl)phthalate	220	J	89	100	1000	1000
85-68-7	Butylbenzylphthalate	75	U	75	100	410	410

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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

DLASS-002-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82399
Sample wt/vol:	9.96 (g/L)	CTL Sample ID:	870189
% Solids:	98.1	Date Received:	11/11/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	12/03/2010 / 15:00
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35631
Analytical Run #:	72359	Dilution Factor:	1.00
Date & Time Analyzed:	12/08/2010 / 20:59	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
	Concentration Units:	ug/kg	

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
86-74-8	Carbazole	29	U	29	100	410	410
218-01-9	Chrysene	360	J	26	100	410	410
53-70-3	Dibenzo(a,h)anthracene	50	J	23	100	410	410
132-64-9	Dibenzofuran	25	U	25	100	410	410
84-66-2	Diethylphthalate	66	U	66	100	410	410
131-11-3	Dimethylphthalate	64	U	64	100	410	410
84-74-2	Di-n-butylphthalate	90	J	81	100	410	410
117-84-0	Di-n-octylphthalate	60	U	60	100	410	410
206-44-0	Fluoranthene	720		27	100	410	410
86-73-7	Fluorene	26	U	26	100	410	410
118-74-1	Hexachlorobenzene	29	U	29	100	410	410
87-68-3	Hexachlorobutadiene	63	U	63	100	410	410
77-47-4	Hexachlorocyclopentadiene	53	U M,Y	53	100	410	410
67-72-1	Hexachloroethane	34	U	34	100	410	410
193-39-5	Indeno(1,2,3-cd)pyrene	150	J	24	100	410	410
78-59-1	Isophorone	51	U	51	100	410	410
91-20-3	Naphthalene	27	J	21	100	410	410
98-95-3	Nitrobenzene	60	U	60	100	410	410
62-75-9	N-Nitrosodimethylamine	80	U	80	100	410	410
621-64-7	N-Nitroso-di-n-propylamine	72	U	72	100	410	410
86-30-6/122-39-4	N-Nitrosodiphenylamine & Diphn	51	U	51	200	820	820
930-55-2	N-Nitrosopyrrolidine	57	U	57	100	410	410
87-86-5	Pentachlorophenol	250	U	250	410	1000	1000
85-01-8	Phenanthrene	320	J	27	100	410	410

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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

DLASS-002-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82399
Sample wt/vol:	9.96 (g/L)	CTL Sample ID:	870189
% Solids:	98.1	Date Received:	11/11/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	12/03/2010 / 15:00
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35631
Analytical Run #:	72359	Dilution Factor:	1.00
Date & Time Analyzed:	12/08/2010 / 20:59	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
		Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
108-95-2	Phenol	160	U	160	410	510	540
129-00-0	Pyrene	570		27	100	410	410
110-86-1	Pyridine	40	U Q,M	40	100	410	410

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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

DLASS-002-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82399
Sample wt/vol:	5.01 (g/L)	CTL Sample ID:	870189
% Solids:	98.1	Date Received:	11/11/2010
Conc. Extract Vol:	10.0 (mL)	Date/Time Prepared:	12/06/2010 / 16:00
Analytical Method:	EPA 8330	Analytical Prep Batch #	35670
Analytical Run #:	72414	Dilution Factor:	1.00
Date & Time Analyzed:	12/17/2010 / 01:26	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
	Concentration Units:	mg/kg	

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
556-88-7	Nitroguanidine	0.11	J P	0.060	0.12	0.16	0.21

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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

DLASS-002-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82399
Sample wt/vol:	9.90 (g/L)	CTL Sample ID:	870189
% Solids:	98.1	Date Received:	11/11/2010
Conc. Extract Vol:	20.0 (mL)	Date/Time Prepared:	12/06/2010 / 17:15
Analytical Method:	EPA 8330B	Analytical Prep Batch #	35669
Analytical Run #:	72415	Dilution Factor:	1.00
Date & Time Analyzed:	12/14/2010 / 17:27	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
	Concentration Units:	mg/kg	

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
99-35-4	1,3,5-Trinitrobenzene	0.13	U	0.13	0.40	0.44	0.44
99-65-0	1,3-Dinitrobenzene	0.081	U	0.081	0.40	0.44	0.44
118-96-7	2,4,6-Trinitrotoluene	0.091	U	0.091	0.40	0.44	0.44
121-14-2	2,4-Dinitrotoluene	0.20	U	0.20	0.40	0.44	0.67
606-20-2	2,6-Dinitrotoluene	0.071	U	0.071	0.40	0.51	0.51
35572-78-2	2-Amino-4,6-dinitrotoluene	0.051	U	0.051	0.40	0.44	0.44
88-72-2	2-Nitrotoluene	0.091	U	0.091	0.40	0.44	0.44
618-87-1	3,5-Dinitroaniline	0.091	U	0.091	0.40	0.44	0.44
99-08-1	3-Nitrotoluene	0.071	U	0.071	0.40	0.44	0.44
19406-51-0	4-Amino-2,6-dinitrotoluene	0.071	U	0.071	0.40	0.44	0.44
99-99-0	4-Nitrotoluene	0.071	U	0.071	0.44	0.51	0.51
2691-41-0	HMX	0.12	U	0.12	0.40	0.44	0.44
98-95-3	Nitrobenzene	0.040	U	0.040	0.40	0.44	0.44
55-63-0	Nitroglycerin	0.51	U	0.51	1.2	1.5	1.8
78-11-5	PETN	0.51	U	0.51	1.2	1.5	1.8
121-82-4	RDX	0.16	U	0.16	0.40	0.44	0.53
479-45-8	Tetryl	0.091	U	0.091	0.40	0.44	0.44

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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

DLASS-022-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82399
Sample wt/vol:	10.02 (g/L)	CTL Sample ID:	870194
% Solids:	98.2	Date Received:	11/11/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	12/03/2010 / 15:00
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35631
Analytical Run #:	72359	Dilution Factor:	1.00
Date & Time Analyzed:	12/08/2010 / 21:59	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
120-82-1	1,2,4-Trichlorobenzene	21	U	21	100	410	410
95-50-1	1,2-Dichlorobenzene	24	U	24	100	410	410
541-73-1	1,3-Dichlorobenzene	20	U	20	100	410	410
106-46-7	1,4-Dichlorobenzene	19	U	19	100	410	410
90-12-0	1-Methylnaphthalene	100	J	25	100	410	410
95-95-4	2,4,5-Trichlorophenol	130	U	130	410	510	510
88-06-2	2,4,6-Trichlorophenol	130	U	130	410	510	510
120-83-2	2,4-Dichlorophenol	120	U	120	410	510	510
105-67-9	2,4-Dimethylphenol	100	U	100	100	410	410
51-28-5	2,4-Dinitrophenol	700	U	700	1000	2000	2300
121-14-2	2,4-Dinitrotoluene	24	U	24	100	410	410
87-65-0	2,6-Dichlorophenol	140	U	140	410	510	510
606-20-2	2,6-Dinitrotoluene	24	U	24	100	410	410
91-58-7	2-Chloronaphthalene	23	U	23	100	410	410
95-57-8	2-Chlorophenol	350	U	350	410	510	1100
91-57-6	2-Methylnaphthalene	140	J	25	100	410	410
95-48-7	2-Methylphenol	430	U	430	510	1000	1400
88-74-4	2-Nitroaniline	23	U	23	100	410	410
88-75-5	2-Nitrophenol	280	U	280	410	510	960
1319-77-3	3 & 4-Methylphenol	660	U	660	1000	2000	2200
91-94-1	3,3'-Dichlorobenzidine	150	U	150	410	510	510
99-09-2	3-Nitroaniline	22	U	22	410	1000	1000
534-52-1	4,6-Dinitro-2-methylphenol	270	U	270	410	1000	1000
101-55-3	4-Bromophenyl-phenyl ether	25	U	25	100	410	410

CT LABORATORIES
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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description: **DLASS-022-0001-SO**

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82399
Sample wt/vol:	10.02 (g/L)	CTL Sample ID:	870194
% Solids:	98.2	Date Received:	11/11/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	12/03/2010 / 15:00
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35631
Analytical Run #:	72359	Dilution Factor:	1.00
Date & Time Analyzed:	12/08/2010 / 21:59	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
	Concentration Units:	ug/kg	

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
59-50-7	4-Chloro-3-methylphenol	390	U	390	410	510	1300
106-47-8	4-Chloroaniline	40	U	40	100	410	410
7005-72-3	4-Chlorophenyl-phenyl ether	26	U	26	100	410	410
100-01-6	4-Nitroaniline	30	U	30	410	1000	1000
100-02-7	4-Nitrophenol	410	U	410	410	1000	1300
83-32-9	Acenaphthene	24	U	24	100	410	410
208-96-8	Acenaphthylene	24	U	24	100	410	410
98-86-2	Acetophenone	76	U	76	100	410	410
62-53-3	Aniline	32	U	32	100	410	410
120-12-7	Anthracene	24	U	24	100	410	410
103-33-3/122-66-7	Azobenzene & 1,2-Diphenylhydra	56	U	56	200	810	810
92-87-5	Benzidine	970	U	970	1000	2000	3300
56-55-3	Benzo(a)anthracene	100	J	25	100	410	410
50-32-8	Benzo(a)pyrene	85	J	23	100	410	410
205-99-2	Benzo(b)fluoranthene	160	J	25	100	410	410
191-24-2	Benzo(g,h,i)perylene	52	J	22	100	410	410
207-08-9	Benzo(k)fluoranthene	46	J	25	100	410	410
65-85-0	Benzoic acid	420	J	300	510	2000	2000
100-51-6	Benzyl alcohol	84	U	84	510	1000	1000
111-91-1	Bis(2-chloroethoxy)methane	23	U	23	100	410	410
111-44-4	Bis(2-chloroethyl)ether	25	U	25	100	410	410
108-60-1	Bis(2-chloroisopropyl)ether	30	U	30	100	410	410
117-81-7	Bis(2-ethylhexyl)phthalate	110	J	88	100	1000	1000
85-68-7	Butylbenzylphthalate	74	U	74	100	410	410

CT LABORATORIES
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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

DLASS-022-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82399
Sample wt/vol:	10.02 (g/L)	CTL Sample ID:	870194
% Solids:	98.2	Date Received:	11/11/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	12/03/2010 / 15:00
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35631
Analytical Run #:	72359	Dilution Factor:	1.00
Date & Time Analyzed:	12/08/2010 / 21:59	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
86-74-8	Carbazole	28	U	28	100	410	410
218-01-9	Chrysene	100	J	25	100	410	410
53-70-3	Dibenzo(a,h)anthracene	22	U	22	100	410	410
132-64-9	Dibenzofuran	34	J	24	100	410	410
84-66-2	Diethylphthalate	67	J	65	100	410	410
131-11-3	Dimethylphthalate	64	U	64	100	410	410
84-74-2	Di-n-butylphthalate	250	J	80	100	410	410
117-84-0	Di-n-octylphthalate	60	U	60	100	410	410
206-44-0	Fluoranthene	170	J	26	100	410	410
86-73-7	Fluorene	25	U	25	100	410	410
118-74-1	Hexachlorobenzene	28	U	28	100	410	410
87-68-3	Hexachlorobutadiene	63	U	63	100	410	410
77-47-4	Hexachlorocyclopentadiene	53	U	53	100	410	410
67-72-1	Hexachloroethane	34	U	34	100	410	410
193-39-5	Indeno(1,2,3-cd)pyrene	50	J	23	100	410	410
78-59-1	Isophorone	51	U	51	100	410	410
91-20-3	Naphthalene	96	J	21	100	410	410
98-95-3	Nitrobenzene	60	U	60	100	410	410
62-75-9	N-Nitrosodimethylamine	79	U	79	100	410	410
621-64-7	N-Nitroso-di-n-propylamine	71	U	71	100	410	410
86-30-6/122-39-4	N-Nitrosodiphenylamine & Diphn	51	U	51	200	810	810
930-55-2	N-Nitrosopyrrolidine	57	U	57	100	410	410
87-86-5	Pentachlorophenol	240	U	240	410	1000	1000
85-01-8	Phenanthrene	110	J	26	100	410	410

CT LABORATORIES
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1B

SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

DLASS-022-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82399
Sample wt/vol:	10.02 (g/L)	CTL Sample ID:	870194
% Solids:	98.2	Date Received:	11/11/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	12/03/2010 / 15:00
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35631
Analytical Run #:	72359	Dilution Factor:	1.00
Date & Time Analyzed:	12/08/2010 / 21:59	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
108-95-2	Phenol	160	U	160	410	510	540
129-00-0	Pyrene	140	J	26	100	410	410
110-86-1	Pyridine	40	U Q	40	100	410	410

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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

DLASS-022-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82399
Sample wt/vol:	5.10 (g/L)	CTL Sample ID:	870194
% Solids:	98.2	Date Received:	11/11/2010
Conc. Extract Vol:	10.0 (mL)	Date/Time Prepared:	12/06/2010 / 16:00
Analytical Method:	EPA 8330	Analytical Prep Batch #	35670
Analytical Run #:	72414	Dilution Factor:	1.00
Date & Time Analyzed:	12/17/2010 / 02:38	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
	Concentration Units:	mg/kg	

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
556-88-7	Nitroguanidine	0.67	P	0.059	0.12	0.16	0.21

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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

DLASS-022-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82399
Sample wt/vol:	9.92 (g/L)	CTL Sample ID:	870194
% Solids:	98.2	Date Received:	11/11/2010
Conc. Extract Vol:	20.0 (mL)	Date/Time Prepared:	12/06/2010 / 17:15
Analytical Method:	EPA 8330B	Analytical Prep Batch #	35669
Analytical Run #:	72415	Dilution Factor:	1.00
Date & Time Analyzed:	12/14/2010 / 19:23	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: mg/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
99-35-4	1,3,5-Trinitrobenzene	0.13	U	0.13	0.40	0.44	0.44
99-65-0	1,3-Dinitrobenzene	0.081	U	0.081	0.40	0.44	0.44
118-96-7	2,4,6-Trinitrotoluene	0.091	U	0.091	0.40	0.44	0.44
121-14-2	2,4-Dinitrotoluene	0.20	U	0.20	0.40	0.44	0.67
606-20-2	2,6-Dinitrotoluene	0.071	U	0.071	0.40	0.50	0.50
35572-78-2	2-Amino-4,6-dinitrotoluene	0.050	U	0.050	0.40	0.44	0.44
88-72-2	2-Nitrotoluene	0.091	U	0.091	0.40	0.44	0.44
618-87-1	3,5-Dinitroaniline	0.091	U	0.091	0.40	0.44	0.44
99-08-1	3-Nitrotoluene	0.071	U	0.071	0.40	0.44	0.44
19406-51-0	4-Amino-2,6-dinitrotoluene	0.071	U	0.071	0.40	0.44	0.44
99-99-0	4-Nitrotoluene	0.071	U	0.071	0.44	0.50	0.50
2691-41-0	HMX	0.12	U	0.12	0.40	0.44	0.44
98-95-3	Nitrobenzene	0.040	U	0.040	0.40	0.44	0.44
55-63-0	Nitroglycerin	0.50	U	0.50	1.2	1.5	1.8
78-11-5	PETN	0.50	U	0.50	1.2	1.5	1.8
121-82-4	RDX	0.16	U	0.16	0.40	0.44	0.52
479-45-8	Tetryl	0.091	U	0.091	0.40	0.44	0.44

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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description: **DLASS-022-0003-SO**

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82399
Sample wt/vol:	10.01 (g/L)	CTL Sample ID:	870195
% Solids:	98.1	Date Received:	11/11/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	12/03/2010 / 15:00
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35631
Analytical Run #:	72359	Dilution Factor:	1.00
Date & Time Analyzed:	12/08/2010 / 22:19	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
120-82-1	1,2,4-Trichlorobenzene	21	U	21	100	410	410
95-50-1	1,2-Dichlorobenzene	24	U	24	100	410	410
541-73-1	1,3-Dichlorobenzene	20	U	20	100	410	410
106-46-7	1,4-Dichlorobenzene	19	U	19	100	410	410
90-12-0	1-Methylnaphthalene	120	J	25	100	410	410
95-95-4	2,4,5-Trichlorophenol	130	U	130	410	510	510
88-06-2	2,4,6-Trichlorophenol	130	U	130	410	510	510
120-83-2	2,4-Dichlorophenol	120	U	120	410	510	510
105-67-9	2,4-Dimethylphenol	100	U	100	100	410	410
51-28-5	2,4-Dinitrophenol	700	U	700	1000	2000	2300
121-14-2	2,4-Dinitrotoluene	24	U	24	100	410	410
87-65-0	2,6-Dichlorophenol	140	U	140	410	510	510
606-20-2	2,6-Dinitrotoluene	24	U	24	100	410	410
91-58-7	2-Chloronaphthalene	23	U	23	100	410	410
95-57-8	2-Chlorophenol	350	U	350	410	510	1100
91-57-6	2-Methylnaphthalene	160	J	25	100	410	410
95-48-7	2-Methylphenol	430	U	430	510	1000	1400
88-74-4	2-Nitroaniline	23	U	23	100	410	410
88-75-5	2-Nitrophenol	290	U	290	410	510	960
1319-77-3	3 & 4-Methylphenol	660	U	660	1000	2000	2200
91-94-1	3,3'-Dichlorobenzidine	150	U	150	410	510	510
99-09-2	3-Nitroaniline	22	U	22	410	1000	1000
534-52-1	4,6-Dinitro-2-methylphenol	270	U	270	410	1000	1000
101-55-3	4-Bromophenyl-phenyl ether	25	U	25	100	410	410

CT LABORATORIES
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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description: **DLASS-022-0003-SO**

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82399
Sample wt/vol:	10.01 (g/L)	CTL Sample ID:	870195
% Solids:	98.1	Date Received:	11/11/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	12/03/2010 / 15:00
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35631
Analytical Run #:	72359	Dilution Factor:	1.00
Date & Time Analyzed:	12/08/2010 / 22:19	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
	Concentration Units:	ug/kg	

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
59-50-7	4-Chloro-3-methylphenol	390	U	390	410	510	1300
106-47-8	4-Chloroaniline	40	U	40	100	410	410
7005-72-3	4-Chlorophenyl-phenyl ether	26	U	26	100	410	410
100-01-6	4-Nitroaniline	31	U	31	410	1000	1000
100-02-7	4-Nitrophenol	410	U	410	410	1000	1300
83-32-9	Acenaphthene	24	U	24	100	410	410
208-96-8	Acenaphthylene	24	U	24	100	410	410
98-86-2	Acetophenone	76	U	76	100	410	410
62-53-3	Aniline	32	U	32	100	410	410
120-12-7	Anthracene	24	U	24	100	410	410
103-33-3/122-66-7	Azobenzene & 1,2-Diphenylhydra	56	U	56	200	810	810
92-87-5	Benzidine	970	U	970	1000	2000	3300
56-55-3	Benzo(a)anthracene	110	J	25	100	410	410
50-32-8	Benzo(a)pyrene	87	J	23	100	410	410
205-99-2	Benzo(b)fluoranthene	170	J	25	100	410	410
191-24-2	Benzo(g,h,i)perylene	56	J	22	100	410	410
207-08-9	Benzo(k)fluoranthene	73	J	25	100	410	410
65-85-0	Benzoic acid	430	J	300	510	2000	2000
100-51-6	Benzyl alcohol	85	U	85	510	1000	1000
111-91-1	Bis(2-chloroethoxy)methane	23	U	23	100	410	410
111-44-4	Bis(2-chloroethyl)ether	25	U	25	100	410	410
108-60-1	Bis(2-chloroisopropyl)ether	31	U	31	100	410	410
117-81-7	Bis(2-ethylhexyl)phthalate	130	J	89	100	1000	1000
85-68-7	Butylbenzylphthalate	74	U	74	100	410	410

CT LABORATORIES
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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description: **DLASS-022-0003-SO**

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82399
Sample wt/vol:	10.01 (g/L)	CTL Sample ID:	870195
% Solids:	98.1	Date Received:	11/11/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	12/03/2010 / 15:00
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35631
Analytical Run #:	72359	Dilution Factor:	1.00
Date & Time Analyzed:	12/08/2010 / 22:19	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
86-74-8	Carbazole	29	U	29	100	410	410
218-01-9	Chrysene	120	J	25	100	410	410
53-70-3	Dibenzo(a,h)anthracene	22	U	22	100	410	410
132-64-9	Dibenzofuran	40	J	24	100	410	410
84-66-2	Diethylphthalate	89	J	65	100	410	410
131-11-3	Dimethylphthalate	64	U	64	100	410	410
84-74-2	Di-n-butylphthalate	320	J	80	100	410	410
117-84-0	Di-n-octylphthalate	60	U	60	100	410	410
206-44-0	Fluoranthene	200	J	26	100	410	410
86-73-7	Fluorene	25	U	25	100	410	410
118-74-1	Hexachlorobenzene	29	U	29	100	410	410
87-68-3	Hexachlorobutadiene	63	U	63	100	410	410
77-47-4	Hexachlorocyclopentadiene	53	U	53	100	410	410
67-72-1	Hexachloroethane	34	U	34	100	410	410
193-39-5	Indeno(1,2,3-cd)pyrene	50	J	23	100	410	410
78-59-1	Isophorone	51	U	51	100	410	410
91-20-3	Naphthalene	110	J	21	100	410	410
98-95-3	Nitrobenzene	60	U	60	100	410	410
62-75-9	N-Nitrosodimethylamine	79	U	79	100	410	410
621-64-7	N-Nitroso-di-n-propylamine	71	U	71	100	410	410
86-30-6/122-39-4	N-Nitrosodiphenylamine & Diphn	51	U	51	200	810	810
930-55-2	N-Nitrosopyrrolidine	57	U	57	100	410	410
87-86-5	Pentachlorophenol	240	U	240	410	1000	1000
85-01-8	Phenanthrene	140	J	26	100	410	410

CT LABORATORIES
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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

DLASS-022-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82399
Sample wt/vol:	10.01 (g/L)	CTL Sample ID:	870195
% Solids:	98.1	Date Received:	11/11/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	12/03/2010 / 15:00
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35631
Analytical Run #:	72359	Dilution Factor:	1.00
Date & Time Analyzed:	12/08/2010 / 22:19	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
108-95-2	Phenol	160	U	160	410	510	540
129-00-0	Pyrene	160	J	26	100	410	410
110-86-1	Pyridine	40	U Q	40	100	410	410

CT LABORATORIES
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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

DLASS-022-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82399
Sample wt/vol:	5.05 (g/L)	CTL Sample ID:	870195
% Solids:	98.1	Date Received:	11/11/2010
Conc. Extract Vol:	10.0 (mL)	Date/Time Prepared:	12/06/2010 / 16:00
Analytical Method:	EPA 8330	Analytical Prep Batch #	35670
Analytical Run #:	72414	Dilution Factor:	1.00
Date & Time Analyzed:	12/17/2010 / 03:06	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
		Concentration Units:	mg/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
556-88-7	Nitroguanidine	0.63	P	0.059	0.12	0.16	0.21

CT LABORATORIES
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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

DLASS-022-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82399
Sample wt/vol:	9.91 (g/L)	CTL Sample ID:	870195
% Solids:	98.1	Date Received:	11/11/2010
Conc. Extract Vol:	20.0 (mL)	Date/Time Prepared:	12/06/2010 / 17:15
Analytical Method:	EPA 8330B	Analytical Prep Batch #	35669
Analytical Run #:	72415	Dilution Factor:	1.00
Date & Time Analyzed:	12/14/2010 / 20:09	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: mg/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
99-35-4	1,3,5-Trinitrobenzene	0.13	U	0.13	0.40	0.44	0.44
99-65-0	1,3-Dinitrobenzene	0.081	U	0.081	0.40	0.44	0.44
118-96-7	2,4,6-Trinitrotoluene	0.091	U	0.091	0.40	0.44	0.44
121-14-2	2,4-Dinitrotoluene	0.20	U	0.20	0.40	0.44	0.67
606-20-2	2,6-Dinitrotoluene	0.071	U	0.071	0.40	0.50	0.50
35572-78-2	2-Amino-4,6-dinitrotoluene	0.050	U	0.050	0.40	0.44	0.44
88-72-2	2-Nitrotoluene	0.091	U	0.091	0.40	0.44	0.44
618-87-1	3,5-Dinitroaniline	0.091	U	0.091	0.40	0.44	0.44
99-08-1	3-Nitrotoluene	0.071	U	0.071	0.40	0.44	0.44
19406-51-0	4-Amino-2,6-dinitrotoluene	0.071	U	0.071	0.40	0.44	0.44
99-99-0	4-Nitrotoluene	0.071	U	0.071	0.44	0.50	0.50
2691-41-0	HMX	0.12	U	0.12	0.40	0.44	0.44
98-95-3	Nitrobenzene	0.040	U	0.040	0.40	0.44	0.44
55-63-0	Nitroglycerin	0.50	U	0.50	1.2	1.5	1.8
78-11-5	PETN	0.50	U	0.50	1.2	1.5	1.8
121-82-4	RDX	0.16	U	0.16	0.40	0.44	0.52
479-45-8	Tetryl	0.091	U	0.091	0.40	0.44	0.44

CT LABORATORIES
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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

DLASS-014-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82399
Sample wt/vol:	9.96 (g/L)	CTL Sample ID:	870201
% Solids:	96.9	Date Received:	11/11/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	11/22/2010 / 10:00
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35517
Analytical Run #:	72179	Dilution Factor:	1.00
Date & Time Analyzed:	12/02/2010 / 19:45	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
	Concentration Units:	ug/kg	

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
120-82-1	1,2,4-Trichlorobenzene	22	U	22	100	410	410
95-50-1	1,2-Dichlorobenzene	25	U	25	100	410	410
541-73-1	1,3-Dichlorobenzene	21	U	21	100	410	410
106-46-7	1,4-Dichlorobenzene	20	U	20	100	410	410
90-12-0	1-Methylnaphthalene	29	J	26	100	410	410
95-95-4	2,4,5-Trichlorophenol	130	U	130	410	520	520
88-06-2	2,4,6-Trichlorophenol	130	U	130	410	520	520
120-83-2	2,4-Dichlorophenol	120	U	120	410	520	520
105-67-9	2,4-Dimethylphenol	100	U	100	100	410	410
51-28-5	2,4-Dinitrophenol	710	U	710	1000	2100	2400
121-14-2	2,4-Dinitrotoluene	25	U	25	100	410	410
87-65-0	2,6-Dichlorophenol	150	U	150	410	520	520
606-20-2	2,6-Dinitrotoluene	25	U	25	100	410	410
91-58-7	2-Chloronaphthalene	24	U	24	100	410	410
95-57-8	2-Chlorophenol	350	U	350	410	520	1100
91-57-6	2-Methylnaphthalene	35	J	26	100	410	410
95-48-7	2-Methylphenol	440	U	440	520	1000	1500
88-74-4	2-Nitroaniline	24	U	24	100	410	410
88-75-5	2-Nitrophenol	290	U	290	410	520	970
1319-77-3	3 & 4-Methylphenol	670	U	670	1000	2100	2300
91-94-1	3,3'-Dichlorobenzidine	160	U M	160	410	520	520
99-09-2	3-Nitroaniline	23	U M	23	410	1000	1000
534-52-1	4,6-Dinitro-2-methylphenol	280	U	280	410	1000	1000
101-55-3	4-Bromophenyl-phenyl ether	26	U	26	100	410	410

CT LABORATORIES
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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description: **DLASS-014-0001-SO**

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82399
Sample wt/vol:	9.96 (g/L)	CTL Sample ID:	870201
% Solids:	96.9	Date Received:	11/11/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	11/22/2010 / 10:00
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35517
Analytical Run #:	72179	Dilution Factor:	1.00
Date & Time Analyzed:	12/02/2010 / 19:45	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
59-50-7	4-Chloro-3-methylphenol	390	U	390	410	520	1300
106-47-8	4-Chloroaniline	40	U M	40	100	410	410
7005-72-3	4-Chlorophenyl-phenyl ether	27	U	27	100	410	410
100-01-6	4-Nitroaniline	31	U M	31	410	1000	1000
100-02-7	4-Nitrophenol	410	U	410	410	1000	1300
83-32-9	Acenaphthene	25	U	25	100	410	410
208-96-8	Acenaphthylene	25	U	25	100	410	410
98-86-2	Acetophenone	78	U	78	100	410	410
62-53-3	Aniline	32	U M	32	100	410	410
120-12-7	Anthracene	37	J	25	100	410	410
103-33-3/122-66-7	Azobenzene & 1,2-Diphenylhydra	57	U	57	210	830	830
92-87-5	Benzidine	980	U Q,M	980	1000	2100	3300
56-55-3	Benzo(a)anthracene	190	J	26	100	410	410
50-32-8	Benzo(a)pyrene	180	J	24	100	410	410
205-99-2	Benzo(b)fluoranthene	300	J	26	100	410	410
191-24-2	Benzo(g,h,i)perylene	120	J	23	100	410	410
207-08-9	Benzo(k)fluoranthene	130	J	26	100	410	410
65-85-0	Benzoic acid	980	J M	300	520	2100	2100
100-51-6	Benzyl alcohol	86	U	86	520	1000	1000
111-91-1	Bis(2-chloroethoxy)methane	24	U	24	100	410	410
111-44-4	Bis(2-chloroethyl)ether	26	U	26	100	410	410
108-60-1	Bis(2-chloroisopropyl)ether	31	U	31	100	410	410
117-81-7	Bis(2-ethylhexyl)phthalate	900	J	90	100	1000	1000
85-68-7	Butylbenzylphthalate	76	U	76	100	410	410

CT LABORATORIES
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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description: **DLASS-014-0001-SO**

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82399
Sample wt/vol:	9.96 (g/L)	CTL Sample ID:	870201
% Solids:	96.9	Date Received:	11/11/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	11/22/2010 / 10:00
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35517
Analytical Run #:	72179	Dilution Factor:	1.00
Date & Time Analyzed:	12/02/2010 / 19:45	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
86-74-8	Carbazole	32	J	29	100	410	410
218-01-9	Chrysene	210	J	26	100	410	410
53-70-3	Dibenzo(a,h)anthracene	35	J	23	100	410	410
132-64-9	Dibenzofuran	25	U	25	100	410	410
84-66-2	Diethylphthalate	66	U	66	100	410	410
131-11-3	Dimethylphthalate	65	U	65	100	410	410
84-74-2	Di-n-butylphthalate	120	J	82	100	410	410
117-84-0	Di-n-octylphthalate	61	U	61	100	410	410
206-44-0	Fluoranthene	480		27	100	410	410
86-73-7	Fluorene	26	U	26	100	410	410
118-74-1	Hexachlorobenzene	29	U	29	100	410	410
87-68-3	Hexachlorobutadiene	64	U	64	100	410	410
77-47-4	Hexachlorocyclopentadiene	54	U	54	100	410	410
67-72-1	Hexachloroethane	34	U	34	100	410	410
193-39-5	Indeno(1,2,3-cd)pyrene	120	J	24	100	410	410
78-59-1	Isophorone	52	U	52	100	410	410
91-20-3	Naphthalene	30	J	22	100	410	410
98-95-3	Nitrobenzene	61	U	61	100	410	410
62-75-9	N-Nitrosodimethylamine	81	U	81	100	410	410
621-64-7	N-Nitroso-di-n-propylamine	73	U	73	100	410	410
86-30-6/122-39-4	N-Nitrosodiphenylamine & Diphn	52	U	52	210	830	830
930-55-2	N-Nitrosopyrrolidine	58	U	58	100	410	410
87-86-5	Pentachlorophenol	250	U	250	410	1000	1000
85-01-8	Phenanthrene	250	J	27	100	410	410

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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

DLASS-014-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82399
Sample wt/vol:	9.96 (g/L)	CTL Sample ID:	870201
% Solids:	96.9	Date Received:	11/11/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	11/22/2010 / 10:00
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35517
Analytical Run #:	72179	Dilution Factor:	1.00
Date & Time Analyzed:	12/02/2010 / 19:45	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
108-95-2	Phenol	170	U	170	410	520	550
129-00-0	Pyrene	370	J	27	100	410	410
110-86-1	Pyridine	40	U Q,M	40	100	410	410

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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

DLASS-014-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82399
Sample wt/vol:	5.06 (g/L)	CTL Sample ID:	870201
% Solids:	96.9	Date Received:	11/11/2010
Conc. Extract Vol:	10.0 (mL)	Date/Time Prepared:	12/02/2010 / 12:00
Analytical Method:	EPA 8330	Analytical Prep Batch #	35573
Analytical Run #:	72412	Dilution Factor:	1.00
Date & Time Analyzed:	12/16/2010 / 22:20	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
	Concentration Units:	mg/kg	

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
556-88-7	Nitroguanidine	0.30	P	0.059	0.12	0.16	0.21

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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

DLASS-014-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82399
Sample wt/vol:	10.12 (g/L)	CTL Sample ID:	870201
% Solids:	96.9	Date Received:	11/11/2010
Conc. Extract Vol:	20.0 (mL)	Date/Time Prepared:	12/02/2010 / 13:30
Analytical Method:	EPA 8330B	Analytical Prep Batch #	35571
Analytical Run #:	72413	Dilution Factor:	1.00
Date & Time Analyzed:	12/14/2010 / 10:44	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: mg/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
99-35-4	1,3,5-Trinitrobenzene	0.13	U	0.13	0.40	0.43	0.43
99-65-0	1,3-Dinitrobenzene	0.079	U	0.079	0.40	0.43	0.43
118-96-7	2,4,6-Trinitrotoluene	0.089	U	0.089	0.40	0.43	0.43
121-14-2	2,4-Dinitrotoluene	0.20	U	0.20	0.40	0.43	0.65
606-20-2	2,6-Dinitrotoluene	0.069	U	0.069	0.40	0.49	0.49
35572-78-2	2-Amino-4,6-dinitrotoluene	0.049	U	0.049	0.40	0.43	0.43
88-72-2	2-Nitrotoluene	0.089	U	0.089	0.40	0.43	0.43
618-87-1	3,5-Dinitroaniline	0.089	U	0.089	0.40	0.43	0.43
99-08-1	3-Nitrotoluene	0.069	U	0.069	0.40	0.43	0.43
19406-51-0	4-Amino-2,6-dinitrotoluene	0.069	U	0.069	0.40	0.43	0.43
99-99-0	4-Nitrotoluene	0.069	U	0.069	0.43	0.49	0.49
2691-41-0	HMX	0.12	U	0.12	0.40	0.43	0.43
98-95-3	Nitrobenzene	0.040	U	0.040	0.40	0.43	0.43
55-63-0	Nitroglycerin	0.49	U	0.49	1.2	1.5	1.8
78-11-5	PETN	0.49	U	0.49	1.2	1.5	1.8
121-82-4	RDX	0.16	U	0.16	0.40	0.43	0.51
479-45-8	Tetryl	0.089	U	0.089	0.40	0.43	0.43

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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description: **DLASS-014-0003-SO**

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82399
Sample wt/vol:	9.96 (g/L)	CTL Sample ID:	870203
% Solids:	96.7	Date Received:	11/11/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	11/22/2010 / 10:00
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35517
Analytical Run #:	72179	Dilution Factor:	1.00
Date & Time Analyzed:	12/02/2010 / 20:46	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
	Concentration Units:	ug/kg	

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
120-82-1	1,2,4-Trichlorobenzene	22	U	22	100	420	420
95-50-1	1,2-Dichlorobenzene	25	U	25	100	420	420
541-73-1	1,3-Dichlorobenzene	21	U	21	100	420	420
106-46-7	1,4-Dichlorobenzene	20	U	20	100	420	420
90-12-0	1-Methylnaphthalene	26	U	26	100	420	420
95-95-4	2,4,5-Trichlorophenol	130	U	130	420	520	520
88-06-2	2,4,6-Trichlorophenol	130	U	130	420	520	520
120-83-2	2,4-Dichlorophenol	120	U	120	420	520	520
105-67-9	2,4-Dimethylphenol	100	U	100	100	420	420
51-28-5	2,4-Dinitrophenol	720	U	720	1000	2100	2400
121-14-2	2,4-Dinitrotoluene	25	U	25	100	420	420
87-65-0	2,6-Dichlorophenol	150	U	150	420	520	520
606-20-2	2,6-Dinitrotoluene	25	U	25	100	420	420
91-58-7	2-Chloronaphthalene	24	U	24	100	420	420
95-57-8	2-Chlorophenol	350	U	350	420	520	1100
91-57-6	2-Methylnaphthalene	28	J	26	100	420	420
95-48-7	2-Methylphenol	440	U	440	520	1000	1500
88-74-4	2-Nitroaniline	24	U	24	100	420	420
88-75-5	2-Nitrophenol	290	U	290	420	520	980
1319-77-3	3 & 4-Methylphenol	670	U	670	1000	2100	2300
91-94-1	3,3'-Dichlorobenzidine	160	U	160	420	520	520
99-09-2	3-Nitroaniline	23	U	23	420	1000	1000
534-52-1	4,6-Dinitro-2-methylphenol	280	U	280	420	1000	1000
101-55-3	4-Bromophenyl-phenyl ether	26	U	26	100	420	420

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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description: **DLASS-014-0003-SO**

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82399
Sample wt/vol:	9.96 (g/L)	CTL Sample ID:	870203
% Solids:	96.7	Date Received:	11/11/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	11/22/2010 / 10:00
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35517
Analytical Run #:	72179	Dilution Factor:	1.00
Date & Time Analyzed:	12/02/2010 / 20:46	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
59-50-7	4-Chloro-3-methylphenol	390	U	390	420	520	1300
106-47-8	4-Chloroaniline	40	U	40	100	420	420
7005-72-3	4-Chlorophenyl-phenyl ether	27	U	27	100	420	420
100-01-6	4-Nitroaniline	31	U	31	420	1000	1000
100-02-7	4-Nitrophenol	420	U	420	420	1000	1300
83-32-9	Acenaphthene	25	U	25	100	420	420
208-96-8	Acenaphthylene	25	U	25	100	420	420
98-86-2	Acetophenone	78	U	78	100	420	420
62-53-3	Aniline	32	U	32	100	420	420
120-12-7	Anthracene	38	J	25	100	420	420
103-33-3/122-66-7	Azobenzene & 1,2-Diphenylhydra	57	U	57	210	830	830
92-87-5	Benzidine	990	U Q	990	1000	2100	3300
56-55-3	Benzo(a)anthracene	180	J	26	100	420	420
50-32-8	Benzo(a)pyrene	170	J	24	100	420	420
205-99-2	Benzo(b)fluoranthene	250	J	26	100	420	420
191-24-2	Benzo(g,h,i)perylene	100	J	23	100	420	420
207-08-9	Benzo(k)fluoranthene	110	J	26	100	420	420
65-85-0	Benzoic acid	560	J	300	520	2100	2100
100-51-6	Benzyl alcohol	86	U	86	520	1000	1000
111-91-1	Bis(2-chloroethoxy)methane	24	U	24	100	420	420
111-44-4	Bis(2-chloroethyl)ether	26	U	26	100	420	420
108-60-1	Bis(2-chloroisopropyl)ether	31	U	31	100	420	420
117-81-7	Bis(2-ethylhexyl)phthalate	290	J	90	100	1000	1000
85-68-7	Butylbenzylphthalate	76	U	76	100	420	420

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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description: **DLASS-014-0003-SO**

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82399
Sample wt/vol:	9.96 (g/L)	CTL Sample ID:	870203
% Solids:	96.7	Date Received:	11/11/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	11/22/2010 / 10:00
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35517
Analytical Run #:	72179	Dilution Factor:	1.00
Date & Time Analyzed:	12/02/2010 / 20:46	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
86-74-8	Carbazole	37	J	29	100	420	420
218-01-9	Chrysene	210	J	26	100	420	420
53-70-3	Dibenzo(a,h)anthracene	29	J	23	100	420	420
132-64-9	Dibenzofuran	25	U	25	100	420	420
84-66-2	Diethylphthalate	66	U	66	100	420	420
131-11-3	Dimethylphthalate	65	U	65	100	420	420
84-74-2	Di-n-butylphthalate	96	J	82	100	420	420
117-84-0	Di-n-octylphthalate	61	U	61	100	420	420
206-44-0	Fluoranthene	480		27	100	420	420
86-73-7	Fluorene	26	U	26	100	420	420
118-74-1	Hexachlorobenzene	29	U	29	100	420	420
87-68-3	Hexachlorobutadiene	64	U	64	100	420	420
77-47-4	Hexachlorocyclopentadiene	54	U	54	100	420	420
67-72-1	Hexachloroethane	34	U	34	100	420	420
193-39-5	Indeno(1,2,3-cd)pyrene	95	J	24	100	420	420
78-59-1	Isophorone	52	U	52	100	420	420
91-20-3	Naphthalene	24	J	22	100	420	420
98-95-3	Nitrobenzene	61	U	61	100	420	420
62-75-9	N-Nitrosodimethylamine	81	U	81	100	420	420
621-64-7	N-Nitroso-di-n-propylamine	73	U	73	100	420	420
86-30-6/122-39-4	N-Nitrosodiphenylamine & Diphn	52	U	52	210	830	830
930-55-2	N-Nitrosopyrrolidine	58	U	58	100	420	420
87-86-5	Pentachlorophenol	250	U	250	420	1000	1000
85-01-8	Phenanthrene	250	J	27	100	420	420

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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

DLASS-014-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82399
Sample wt/vol:	9.96 (g/L)	CTL Sample ID:	870203
% Solids:	96.7	Date Received:	11/11/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	11/22/2010 / 10:00
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35517
Analytical Run #:	72179	Dilution Factor:	1.00
Date & Time Analyzed:	12/02/2010 / 20:46	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
	Concentration Units:	ug/kg	

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
108-95-2	Phenol	170	U	170	420	520	550
129-00-0	Pyrene	360	J	27	100	420	420
110-86-1	Pyridine	40	U Q	40	100	420	420

CT LABORATORIES
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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

DLASS-014-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82399
Sample wt/vol:	5.00 (g/L)	CTL Sample ID:	870203
% Solids:	96.7	Date Received:	11/11/2010
Conc. Extract Vol:	10.0 (mL)	Date/Time Prepared:	12/02/2010 / 12:00
Analytical Method:	EPA 8330	Analytical Prep Batch #	35573
Analytical Run #:	72412	Dilution Factor:	1.00
Date & Time Analyzed:	12/16/2010 / 23:32	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
	Concentration Units:	mg/kg	

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
556-88-7	Nitroguanidine	0.24	P	0.060	0.12	0.16	0.21

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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

DLASS-014-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82399
Sample wt/vol:	9.97 (g/L)	CTL Sample ID:	870203
% Solids:	96.7	Date Received:	11/11/2010
Conc. Extract Vol:	20.0 (mL)	Date/Time Prepared:	12/02/2010 / 13:30
Analytical Method:	EPA 8330B	Analytical Prep Batch #	35571
Analytical Run #:	72413	Dilution Factor:	1.00
Date & Time Analyzed:	12/14/2010 / 12:40	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: mg/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
99-35-4	1,3,5-Trinitrobenzene	0.13	U	0.13	0.40	0.44	0.44
99-65-0	1,3-Dinitrobenzene	0.080	U	0.080	0.40	0.44	0.44
118-96-7	2,4,6-Trinitrotoluene	0.090	U	0.090	0.40	0.44	0.44
121-14-2	2,4-Dinitrotoluene	0.20	U	0.20	0.40	0.44	0.66
606-20-2	2,6-Dinitrotoluene	0.070	U	0.070	0.40	0.50	0.50
35572-78-2	2-Amino-4,6-dinitrotoluene	0.050	U	0.050	0.40	0.44	0.44
88-72-2	2-Nitrotoluene	0.090	U	0.090	0.40	0.44	0.44
618-87-1	3,5-Dinitroaniline	0.090	U	0.090	0.40	0.44	0.44
99-08-1	3-Nitrotoluene	0.070	U	0.070	0.40	0.44	0.44
19406-51-0	4-Amino-2,6-dinitrotoluene	0.070	U	0.070	0.40	0.44	0.44
99-99-0	4-Nitrotoluene	0.070	U	0.070	0.44	0.50	0.50
2691-41-0	HMX	0.12	U	0.12	0.40	0.44	0.44
98-95-3	Nitrobenzene	0.040	U	0.040	0.40	0.44	0.44
55-63-0	Nitroglycerin	0.50	U	0.50	1.2	1.5	1.8
78-11-5	PETN	0.50	U	0.50	1.2	1.5	1.8
121-82-4	RDX	0.16	U	0.16	0.40	0.44	0.52
479-45-8	Tetryl	0.090	U	0.090	0.40	0.44	0.44

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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description: **DLASS-002-0003-SO**

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82399
Sample wt/vol:	9.98 (g/L)	CTL Sample ID:	870212
% Solids:	98.5	Date Received:	11/11/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	12/03/2010 / 15:00
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35631
Analytical Run #:	72359	Dilution Factor:	1.00
Date & Time Analyzed:	12/08/2010 / 23:20	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
120-82-1	1,2,4-Trichlorobenzene	21	U	21	100	410	410
95-50-1	1,2-Dichlorobenzene	24	U	24	100	410	410
541-73-1	1,3-Dichlorobenzene	20	U	20	100	410	410
106-46-7	1,4-Dichlorobenzene	19	U	19	100	410	410
90-12-0	1-Methylnaphthalene	29	J	25	100	410	410
95-95-4	2,4,5-Trichlorophenol	130	U	130	410	510	510
88-06-2	2,4,6-Trichlorophenol	130	U	130	410	510	510
120-83-2	2,4-Dichlorophenol	120	U	120	410	510	510
105-67-9	2,4-Dimethylphenol	100	U	100	100	410	410
51-28-5	2,4-Dinitrophenol	700	U	700	1000	2000	2300
121-14-2	2,4-Dinitrotoluene	24	U	24	100	410	410
87-65-0	2,6-Dichlorophenol	140	U	140	410	510	510
606-20-2	2,6-Dinitrotoluene	24	U	24	100	410	410
91-58-7	2-Chloronaphthalene	23	U	23	100	410	410
95-57-8	2-Chlorophenol	350	U	350	410	510	1100
91-57-6	2-Methylnaphthalene	40	J	25	100	410	410
95-48-7	2-Methylphenol	430	U	430	510	1000	1400
88-74-4	2-Nitroaniline	23	U	23	100	410	410
88-75-5	2-Nitrophenol	280	U	280	410	510	960
1319-77-3	3 & 4-Methylphenol	660	U	660	1000	2000	2200
91-94-1	3,3'-Dichlorobenzidine	150	U	150	410	510	510
99-09-2	3-Nitroaniline	22	U	22	410	1000	1000
534-52-1	4,6-Dinitro-2-methylphenol	270	U	270	410	1000	1000
101-55-3	4-Bromophenyl-phenyl ether	25	U	25	100	410	410

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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description: **DLASS-002-0003-SO**

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82399
Sample wt/vol:	9.98 (g/L)	CTL Sample ID:	870212
% Solids:	98.5	Date Received:	11/11/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	12/03/2010 / 15:00
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35631
Analytical Run #:	72359	Dilution Factor:	1.00
Date & Time Analyzed:	12/08/2010 / 23:20	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
59-50-7	4-Chloro-3-methylphenol	390	U	390	410	510	1300
106-47-8	4-Chloroaniline	40	U	40	100	410	410
7005-72-3	4-Chlorophenyl-phenyl ether	26	U	26	100	410	410
100-01-6	4-Nitroaniline	31	U	31	410	1000	1000
100-02-7	4-Nitrophenol	410	U	410	410	1000	1300
83-32-9	Acenaphthene	24	U	24	100	410	410
208-96-8	Acenaphthylene	52	J	24	100	410	410
98-86-2	Acetophenone	76	U	76	100	410	410
62-53-3	Aniline	32	U	32	100	410	410
120-12-7	Anthracene	200	J	24	100	410	410
103-33-3/122-66-7	Azobenzene & 1,2-Diphenylhydra	56	U	56	200	810	810
92-87-5	Benzidine	970	U	970	1000	2000	3300
56-55-3	Benzo(a)anthracene	600		25	100	410	410
50-32-8	Benzo(a)pyrene	420		23	100	410	410
205-99-2	Benzo(b)fluoranthene	690		25	100	410	410
191-24-2	Benzo(g,h,i)perylene	190	J	22	100	410	410
207-08-9	Benzo(k)fluoranthene	260	J	25	100	410	410
65-85-0	Benzoic acid	340	J	300	510	2000	2000
100-51-6	Benzyl alcohol	84	U	84	510	1000	1000
111-91-1	Bis(2-chloroethoxy)methane	23	U	23	100	410	410
111-44-4	Bis(2-chloroethyl)ether	25	U	25	100	410	410
108-60-1	Bis(2-chloroisopropyl)ether	31	U	31	100	410	410
117-81-7	Bis(2-ethylhexyl)phthalate	89	U	89	100	1000	1000
85-68-7	Butylbenzylphthalate	74	U	74	100	410	410

CT LABORATORIES
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1B

SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

DLASS-002-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82399
Sample wt/vol:	9.98 (g/L)	CTL Sample ID:	870212
% Solids:	98.5	Date Received:	11/11/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	12/03/2010 / 15:00
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35631
Analytical Run #:	72359	Dilution Factor:	1.00
Date & Time Analyzed:	12/08/2010 / 23:20	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
86-74-8	Carbazole	49	J	28	100	410	410
218-01-9	Chrysene	530		25	100	410	410
53-70-3	Dibenzo(a,h)anthracene	66	J	22	100	410	410
132-64-9	Dibenzofuran	24	J	24	100	410	410
84-66-2	Diethylphthalate	68	J	65	100	410	410
131-11-3	Dimethylphthalate	64	U	64	100	410	410
84-74-2	Di-n-butylphthalate	250	J	80	100	410	410
117-84-0	Di-n-octylphthalate	60	U	60	100	410	410
206-44-0	Fluoranthene	1300		26	100	410	410
86-73-7	Fluorene	57	J	25	100	410	410
118-74-1	Hexachlorobenzene	28	U	28	100	410	410
87-68-3	Hexachlorobutadiene	63	U	63	100	410	410
77-47-4	Hexachlorocyclopentadiene	53	U	53	100	410	410
67-72-1	Hexachloroethane	34	U	34	100	410	410
193-39-5	Indeno(1,2,3-cd)pyrene	200	J	23	100	410	410
78-59-1	Isophorone	51	U	51	100	410	410
91-20-3	Naphthalene	33	J	21	100	410	410
98-95-3	Nitrobenzene	60	U	60	100	410	410
62-75-9	N-Nitrosodimethylamine	79	U	79	100	410	410
621-64-7	N-Nitroso-di-n-propylamine	71	U	71	100	410	410
86-30-6/122-39-4	N-Nitrosodiphenylamine & Diphn	51	U	51	200	810	810
930-55-2	N-Nitrosopyrrolidine	57	U	57	100	410	410
87-86-5	Pentachlorophenol	240	U	240	410	1000	1000
85-01-8	Phenanthrene	580		26	100	410	410

CT LABORATORIES
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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

DLASS-002-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82399
Sample wt/vol:	9.98 (g/L)	CTL Sample ID:	870212
% Solids:	98.5	Date Received:	11/11/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	12/03/2010 / 15:00
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35631
Analytical Run #:	72359	Dilution Factor:	1.00
Date & Time Analyzed:	12/08/2010 / 23:20	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
108-95-2	Phenol	160	U	160	410	510	540
129-00-0	Pyrene	990		26	100	410	410
110-86-1	Pyridine	40	U Q	40	100	410	410

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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

DLASS-002-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82399
Sample wt/vol:	4.91 (g/L)	CTL Sample ID:	870212
% Solids:	98.5	Date Received:	11/11/2010
Conc. Extract Vol:	10.0 (mL)	Date/Time Prepared:	12/06/2010 / 16:00
Analytical Method:	EPA 8330	Analytical Prep Batch #	35670
Analytical Run #:	72414	Dilution Factor:	1.00
Date & Time Analyzed:	12/17/2010 / 03:21	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
	Concentration Units:	mg/kg	

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
556-88-7	Nitroguanidine	0.29	P	0.061	0.12	0.16	0.21

CT LABORATORIES
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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

DLASS-002-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82399
Sample wt/vol:	9.95 (g/L)	CTL Sample ID:	870212
% Solids:	98.5	Date Received:	11/11/2010
Conc. Extract Vol:	20.0 (mL)	Date/Time Prepared:	12/06/2010 / 17:15
Analytical Method:	EPA 8330B	Analytical Prep Batch #	35669
Analytical Run #:	72415	Dilution Factor:	1.00
Date & Time Analyzed:	12/14/2010 / 20:32	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: mg/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
99-35-4	1,3,5-Trinitrobenzene	0.13	U	0.13	0.40	0.44	0.44
99-65-0	1,3-Dinitrobenzene	0.080	U	0.080	0.40	0.44	0.44
118-96-7	2,4,6-Trinitrotoluene	0.090	U	0.090	0.40	0.44	0.44
121-14-2	2,4-Dinitrotoluene	0.20	U	0.20	0.40	0.44	0.66
606-20-2	2,6-Dinitrotoluene	0.070	U	0.070	0.40	0.50	0.50
35572-78-2	2-Amino-4,6-dinitrotoluene	0.050	U	0.050	0.40	0.44	0.44
88-72-2	2-Nitrotoluene	0.090	U	0.090	0.40	0.44	0.44
618-87-1	3,5-Dinitroaniline	0.090	U	0.090	0.40	0.44	0.44
99-08-1	3-Nitrotoluene	0.070	U	0.070	0.40	0.44	0.44
19406-51-0	4-Amino-2,6-dinitrotoluene	0.070	U	0.070	0.40	0.44	0.44
99-99-0	4-Nitrotoluene	0.070	U	0.070	0.44	0.50	0.50
2691-41-0	HMX	0.12	U	0.12	0.40	0.44	0.44
98-95-3	Nitrobenzene	0.040	U	0.040	0.40	0.44	0.44
55-63-0	Nitroglycerin	0.50	U	0.50	1.2	1.5	1.8
78-11-5	PETN	0.50	U	0.50	1.2	1.5	1.8
121-82-4	RDX	0.16	U	0.16	0.40	0.44	0.52
479-45-8	Tetryl	0.090	U	0.090	0.40	0.44	0.44

CT Laboratories

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SEMIVOLATILE ORGANICS ANALYSIS (MB)

Sample Description: **METHOD BLANK**

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:		SDG No.:	82399
Sample wt/vol:	10.00 (g/L)	CTL Sample ID:	874148
% Solids:		Date Received:	11/11/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	11/22/2010 / 10:00
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35517
Analytical Run #:	72179	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
	Concentration Units:	ug/kg	

CAS NO.	Analyte	Analysis Date/Time	Concentration	Qualifiers	DL/LOD	Control Limit	RL
120-82-1	1,2,4-Trichlorobenzene	12/02/2010 19:05	200	U	200	200	
95-50-1	1,2-Dichlorobenzene	12/02/2010 19:05	200	U	200	200	
541-73-1	1,3-Dichlorobenzene	12/02/2010 19:05	200	U	200	200	
106-46-7	1,4-Dichlorobenzene	12/02/2010 19:05	200	U	200	200	
90-12-0	1-Methylnaphthalene	12/02/2010 19:05	200	U	200	200	
95-95-4	2,4,5-Trichlorophenol	12/02/2010 19:05	250	U	250	250	
88-06-2	2,4,6-Trichlorophenol	12/02/2010 19:05	250	U	250	250	
120-83-2	2,4-Dichlorophenol	12/02/2010 19:05	250	U	250	250	
105-67-9	2,4-Dimethylphenol	12/02/2010 19:05	200	U	200	200	
51-28-5	2,4-Dinitrophenol	12/02/2010 19:05	1000	U	1000	1000	
121-14-2	2,4-Dinitrotoluene	12/02/2010 19:05	200	U	200	200	
87-65-0	2,6-Dichlorophenol	12/02/2010 19:05	250	U	250	250	
606-20-2	2,6-Dinitrotoluene	12/02/2010 19:05	200	U	200	200	
91-58-7	2-Chloronaphthalene	12/02/2010 19:05	200	U	200	200	
95-57-8	2-Chlorophenol	12/02/2010 19:05	250	U	250	250	
91-57-6	2-Methylnaphthalene	12/02/2010 19:05	200	U	200	200	
95-48-7	2-Methylphenol	12/02/2010 19:05	500	U	500	500	
88-74-4	2-Nitroaniline	12/02/2010 19:05	200	U	200	200	
88-75-5	2-Nitrophenol	12/02/2010 19:05	250	U	250	250	
1319-77-3	3 & 4-Methylphenol	12/02/2010 19:05	1000	U	1000	1000	
91-94-1	3,3'-Dichlorobenzidine	12/02/2010 19:05	250	U	250	250	
99-09-2	3-Nitroaniline	12/02/2010 19:05	500	U	500	500	
534-52-1	4,6-Dinitro-2-methylphenol	12/02/2010 19:05	500	U	500	500	

CT Laboratories

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SEMIVOLATILE ORGANICS ANALYSIS (MB)

Sample Description

METHOD BLANK

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:		SDG No.:	82399
Sample wt/vol:	10.00 (g/L)	CTL Sample ID:	874148
% Solids:		Date Received:	11/11/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	11/22/2010 / 10:00
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35517
Analytical Run #:	72179	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
	Concentration Units:	ug/kg	

CAS NO.	Analyte	Analysis Date/Time	Concentration	Qualifiers	DL/LOD	Control Limit	RL
101-55-3	4-Bromophenyl-phenyl ether	12/02/2010 19:05	200	U	200	200	
59-50-7	4-Chloro-3-methylphenol	12/02/2010 19:05	250	U	250	250	
106-47-8	4-Chloroaniline	12/02/2010 19:05	200	U	200	200	
7005-72-3	4-Chlorophenyl-phenyl ether	12/02/2010 19:05	200	U	200	200	
100-01-6	4-Nitroaniline	12/02/2010 19:05	200	U	200	200	
100-02-7	4-Nitrophenol	12/02/2010 19:05	500	U	500	500	
83-32-9	Acenaphthene	12/02/2010 19:05	200	U	200	200	
208-96-8	Acenaphthylene	12/02/2010 19:05	200	U	200	200	
98-86-2	Acetophenone	12/02/2010 19:05	200	U	200	200	
62-53-3	Aniline	12/02/2010 19:05	200	U	200	200	
120-12-7	Anthracene	12/02/2010 19:05	200	U	200	200	
103-33-3/122-66-7	Azobenzene & 1,2-Diphenylhydra	12/02/2010 19:05	400	U	400	400	
92-87-5	Benzidine	12/02/2010 19:05	1000	U	1000	1000	
56-55-3	Benzo(a)anthracene	12/02/2010 19:05	200	U	200	200	
50-32-8	Benzo(a)pyrene	12/02/2010 19:05	200	U	200	200	
205-99-2	Benzo(b)fluoranthene	12/02/2010 19:05	200	U	200	200	
191-24-2	Benzo(g,h,i)perylene	12/02/2010 19:05	200	U	200	200	
207-08-9	Benzo(k)fluoranthene	12/02/2010 19:05	200	U	200	200	
65-85-0	Benzoic acid	12/02/2010 19:05	291	U	291	291	
100-51-6	Benzyl alcohol	12/02/2010 19:05	500	U	500	500	
111-91-1	Bis(2-chloroethoxy)methane	12/02/2010 19:05	200	U	200	200	
111-44-4	Bis(2-chloroethyl)ether	12/02/2010 19:05	200	U	200	200	
108-60-1	Bis(2-chloroisopropyl)ether	12/02/2010 19:05	200	U	200	200	

CT Laboratories

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SEMIVOLATILE ORGANICS ANALYSIS (MB)

Sample Description: **METHOD BLANK**

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:		SDG No.:	82399
Sample wt/vol:	10.00 (g/L)	CTL Sample ID:	874148
% Solids:		Date Received:	11/11/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	11/22/2010 / 10:00
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35517
Analytical Run #:	72179	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
		Concentration Units:	ug/kg

CAS NO.	Analyte	Analysis Date/Time	Concentration	Qualifiers	DL/LOD	Control Limit	RL
117-81-7	Bis(2-ethylhexyl)phthalate	12/02/2010 19:05	500	U	500	500	
85-68-7	Butylbenzylphthalate	12/02/2010 19:05	200	U	200	200	
86-74-8	Carbazole	12/02/2010 19:05	200	U	200	200	
218-01-9	Chrysene	12/02/2010 19:05	200	U	200	200	
53-70-3	Dibenzo(a,h)anthracene	12/02/2010 19:05	200	U	200	200	
132-64-9	Dibenzofuran	12/02/2010 19:05	200	U	200	200	
84-66-2	Diethylphthalate	12/02/2010 19:05	200	U	200	200	
131-11-3	Dimethylphthalate	12/02/2010 19:05	200	U	200	200	
84-74-2	Di-n-butylphthalate	12/02/2010 19:05	200	U	200	200	
117-84-0	Di-n-octylphthalate	12/02/2010 19:05	200	U	200	200	
206-44-0	Fluoranthene	12/02/2010 19:05	200	U	200	200	
86-73-7	Fluorene	12/02/2010 19:05	200	U	200	200	
118-74-1	Hexachlorobenzene	12/02/2010 19:05	200	U	200	200	
87-68-3	Hexachlorobutadiene	12/02/2010 19:05	200	U	200	200	
77-47-4	Hexachlorocyclopentadiene	12/02/2010 19:05	200	U	200	200	
67-72-1	Hexachloroethane	12/02/2010 19:05	200	U	200	200	
193-39-5	Indeno(1,2,3-cd)pyrene	12/02/2010 19:05	200	U	200	200	
78-59-1	Isophorone	12/02/2010 19:05	200	U	200	200	
91-20-3	Naphthalene	12/02/2010 19:05	200	U	200	200	
98-95-3	Nitrobenzene	12/02/2010 19:05	200	U	200	200	
62-75-9	N-Nitrosodimethylamine	12/02/2010 19:05	200	U	200	200	
621-64-7	N-Nitroso-di-n-propylamine	12/02/2010 19:05	200	U	200	200	
86-30-6/122-39-4	N-Nitrosodiphenylamine & Diphn	12/02/2010 19:05	400	U	400	400	

CT Laboratories

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SEMIVOLATILE ORGANICS ANALYSIS (MB)

Sample Description

METHOD BLANK

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:		SDG No.:	82399
Sample wt/vol:	10.00 (g/L)	CTL Sample ID:	874148
% Solids:		Date Received:	11/11/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	11/22/2010 / 10:00
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35517
Analytical Run #:	72179	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: ug/kg

CAS NO.	Analyte	Analysis Date/Time	Concentration	Qualifiers	DL/LOD	Control Limit	RL
930-55-2	N-Nitrosopyrrolidine	12/02/2010 19:05	200	U	200	200	
87-86-5	Pentachlorophenol	12/02/2010 19:05	500	U	500	500	
85-01-8	Phenanthrene	12/02/2010 19:05	200	U	200	200	
108-95-2	Phenol	12/02/2010 19:05	250	U	250	250	
129-00-0	Pyrene	12/02/2010 19:05	200	U	200	200	
110-86-1	Pyridine	12/02/2010 19:05	200	U	200	200	

CT Laboratories

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SEMIVOLATILE ORGANICS ANALYSIS (MB)

Sample Description

METHOD BLANK

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:		SDG No.:	82399
Sample wt/vol:	9.90 (g/L)	CTL Sample ID:	875951
% Solids:		Date Received:	11/11/2010
Conc. Extract Vol:	20.0 (mL)	Date/Time Prepared:	12/02/2010 / 13:30
Analytical Method:	EPA 8330B	Analytical Prep Batch #	35571
Analytical Run #:	72413	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: mg/kg

CAS NO.	Analyte	Analysis Date/Time	Concentration	Qualifiers	DL/LOD	Control Limit	RL
99-35-4	1,3,5-Trinitrobenzene	12/14/2010 09:58	0.22	U	0.22	0.22	
99-65-0	1,3-Dinitrobenzene	12/14/2010 09:58	0.22	U	0.22	0.22	
118-96-7	2,4,6-Trinitrotoluene	12/14/2010 09:58	0.22	U	0.22	0.22	
121-14-2	2,4-Dinitrotoluene	12/14/2010 09:58	0.22	U	0.22	0.22	
606-20-2	2,6-Dinitrotoluene	12/14/2010 09:58	0.25	U	0.25	0.25	
35572-78-2	2-Amino-4,6-dinitrotoluene	12/14/2010 09:58	0.22	U	0.22	0.22	
88-72-2	2-Nitrotoluene	12/14/2010 09:58	0.22	U	0.22	0.22	
618-87-1	3,5-Dinitroaniline	12/14/2010 09:58	0.22	U	0.22	0.22	
99-08-1	3-Nitrotoluene	12/14/2010 09:58	0.22	U	0.22	0.22	
19406-51-0	4-Amino-2,6-dinitrotoluene	12/14/2010 09:58	0.22	U	0.22	0.22	
99-99-0	4-Nitrotoluene	12/14/2010 09:58	0.25	U	0.25	0.25	
2691-41-0	HMX	12/14/2010 09:58	0.22	U	0.22	0.22	
98-95-3	Nitrobenzene	12/14/2010 09:58	0.22	U	0.22	0.22	
55-63-0	Nitroglycerin	12/14/2010 09:58	0.75	U	0.75	0.75	
78-11-5	PETN	12/14/2010 09:58	0.75	U	0.75	0.75	
121-82-4	RDX	12/14/2010 09:58	0.22	U	0.22	0.22	
479-45-8	Tetryl	12/14/2010 09:58	0.22	U	0.22	0.22	

CT Laboratories

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SEMIVOLATILE ORGANICS ANALYSIS (MB)

Sample Description

METHOD BLANK

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:		SDG No.:	82399
Sample wt/vol:	5.20 (g/L)	CTL Sample ID:	875959
% Solids:		Date Received:	11/11/2010
Conc. Extract Vol:	10.0 (mL)	Date/Time Prepared:	12/02/2010 / 12:00
Analytical Method:	EPA 8330	Analytical Prep Batch #	35573
Analytical Run #:	72412	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
	Concentration Units:	mg/kg	

CAS NO.	Analyte	Analysis Date/Time	Concentration	Qualifiers	DL/LOD	Control Limit	RL
556-88-7	Nitroguanidine	12/16/2010 21:52	0.08	U	0.08	0.08	

CT Laboratories

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SEMIVOLATILE ORGANICS ANALYSIS (MB)

Sample Description: **METHOD BLANK**

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:		SDG No.:	82399
Sample wt/vol:	10.00 (g/L)	CTL Sample ID:	877491
% Solids:		Date Received:	11/11/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	12/03/2010 / 15:00
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35631
Analytical Run #:	72359	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
	Concentration Units:	ug/kg	

CAS NO.	Analyte	Analysis Date/Time	Concentration	Qualifiers	DL/LOD	Control Limit	RL
120-82-1	1,2,4-Trichlorobenzene	12/08/2010 20:18	200	U	200	200	
95-50-1	1,2-Dichlorobenzene	12/08/2010 20:18	200	U	200	200	
541-73-1	1,3-Dichlorobenzene	12/08/2010 20:18	200	U	200	200	
106-46-7	1,4-Dichlorobenzene	12/08/2010 20:18	200	U	200	200	
90-12-0	1-Methylnaphthalene	12/08/2010 20:18	200	U	200	200	
95-95-4	2,4,5-Trichlorophenol	12/08/2010 20:18	250	U	250	250	
88-06-2	2,4,6-Trichlorophenol	12/08/2010 20:18	250	U	250	250	
120-83-2	2,4-Dichlorophenol	12/08/2010 20:18	250	U	250	250	
105-67-9	2,4-Dimethylphenol	12/08/2010 20:18	200	U	200	200	
51-28-5	2,4-Dinitrophenol	12/08/2010 20:18	1000	U	1000	1000	
121-14-2	2,4-Dinitrotoluene	12/08/2010 20:18	200	U	200	200	
87-65-0	2,6-Dichlorophenol	12/08/2010 20:18	250	U	250	250	
606-20-2	2,6-Dinitrotoluene	12/08/2010 20:18	200	U	200	200	
91-58-7	2-Chloronaphthalene	12/08/2010 20:18	200	U	200	200	
95-57-8	2-Chlorophenol	12/08/2010 20:18	250	U	250	250	
91-57-6	2-Methylnaphthalene	12/08/2010 20:18	200	U	200	200	
95-48-7	2-Methylphenol	12/08/2010 20:18	500	U	500	500	
88-74-4	2-Nitroaniline	12/08/2010 20:18	200	U	200	200	
88-75-5	2-Nitrophenol	12/08/2010 20:18	250	U	250	250	
1319-77-3	3 & 4-Methylphenol	12/08/2010 20:18	1000	U	1000	1000	
91-94-1	3,3'-Dichlorobenzidine	12/08/2010 20:18	250	U	250	250	
99-09-2	3-Nitroaniline	12/08/2010 20:18	500	U	500	500	
534-52-1	4,6-Dinitro-2-methylphenol	12/08/2010 20:18	500	U	500	500	

CT Laboratories

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SEMIVOLATILE ORGANICS ANALYSIS (MB)

Sample Description

METHOD BLANK

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:		SDG No.:	82399
Sample wt/vol:	10.00 (g/L)	CTL Sample ID:	877491
% Solids:		Date Received:	11/11/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	12/03/2010 / 15:00
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35631
Analytical Run #:	72359	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
	Concentration Units:	ug/kg	

CAS NO.	Analyte	Analysis Date/Time	Concentration	Qualifiers	DL/LOD	Control Limit	RL
101-55-3	4-Bromophenyl-phenyl ether	12/08/2010 20:18	200	U	200	200	
59-50-7	4-Chloro-3-methylphenol	12/08/2010 20:18	250	U	250	250	
106-47-8	4-Chloroaniline	12/08/2010 20:18	200	U	200	200	
7005-72-3	4-Chlorophenyl-phenyl ether	12/08/2010 20:18	200	U	200	200	
100-01-6	4-Nitroaniline	12/08/2010 20:18	200	U	200	200	
100-02-7	4-Nitrophenol	12/08/2010 20:18	500	U	500	500	
83-32-9	Acenaphthene	12/08/2010 20:18	200	U	200	200	
208-96-8	Acenaphthylene	12/08/2010 20:18	200	U	200	200	
98-86-2	Acetophenone	12/08/2010 20:18	200	U	200	200	
62-53-3	Aniline	12/08/2010 20:18	200	U	200	200	
120-12-7	Anthracene	12/08/2010 20:18	200	U	200	200	
103-33-3/122-66-7	Azobenzene & 1,2-Diphenylhydra	12/08/2010 20:18	400	U	400	400	
92-87-5	Benzidine	12/08/2010 20:18	1000	U	1000	1000	
56-55-3	Benzo(a)anthracene	12/08/2010 20:18	200	U	200	200	
50-32-8	Benzo(a)pyrene	12/08/2010 20:18	200	U	200	200	
205-99-2	Benzo(b)fluoranthene	12/08/2010 20:18	200	U	200	200	
191-24-2	Benzo(g,h,i)perylene	12/08/2010 20:18	200	U	200	200	
207-08-9	Benzo(k)fluoranthene	12/08/2010 20:18	200	U	200	200	
65-85-0	Benzoic acid	12/08/2010 20:18	291	U	291	291	
100-51-6	Benzyl alcohol	12/08/2010 20:18	500	U	500	500	
111-91-1	Bis(2-chloroethoxy)methane	12/08/2010 20:18	200	U	200	200	
111-44-4	Bis(2-chloroethyl)ether	12/08/2010 20:18	200	U	200	200	
108-60-1	Bis(2-chloroisopropyl)ether	12/08/2010 20:18	200	U	200	200	

CT Laboratories

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SEMIVOLATILE ORGANICS ANALYSIS (MB)

Sample Description

METHOD BLANK

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:		SDG No.:	82399
Sample wt/vol:	10.00 (g/L)	CTL Sample ID:	877491
% Solids:		Date Received:	11/11/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	12/03/2010 / 15:00
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35631
Analytical Run #:	72359	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
	Concentration Units:	ug/kg	

CAS NO.	Analyte	Analysis Date/Time	Concentration	Qualifiers	DL/LOD	Control Limit	RL
117-81-7	Bis(2-ethylhexyl)phthalate	12/08/2010 20:18	500	U	500	500	
85-68-7	Butylbenzylphthalate	12/08/2010 20:18	200	U	200	200	
86-74-8	Carbazole	12/08/2010 20:18	200	U	200	200	
218-01-9	Chrysene	12/08/2010 20:18	200	U	200	200	
53-70-3	Dibenzo(a,h)anthracene	12/08/2010 20:18	200	U	200	200	
132-64-9	Dibenzofuran	12/08/2010 20:18	200	U	200	200	
84-66-2	Diethylphthalate	12/08/2010 20:18	200	U	200	200	
131-11-3	Dimethylphthalate	12/08/2010 20:18	200	U	200	200	
84-74-2	Di-n-butylphthalate	12/08/2010 20:18	200	U	200	200	
117-84-0	Di-n-octylphthalate	12/08/2010 20:18	200	U	200	200	
206-44-0	Fluoranthene	12/08/2010 20:18	200	U	200	200	
86-73-7	Fluorene	12/08/2010 20:18	200	U	200	200	
118-74-1	Hexachlorobenzene	12/08/2010 20:18	200	U	200	200	
87-68-3	Hexachlorobutadiene	12/08/2010 20:18	200	U	200	200	
77-47-4	Hexachlorocyclopentadiene	12/08/2010 20:18	200	U	200	200	
67-72-1	Hexachloroethane	12/08/2010 20:18	200	U	200	200	
193-39-5	Indeno(1,2,3-cd)pyrene	12/08/2010 20:18	200	U	200	200	
78-59-1	Isophorone	12/08/2010 20:18	200	U	200	200	
91-20-3	Naphthalene	12/08/2010 20:18	200	U	200	200	
98-95-3	Nitrobenzene	12/08/2010 20:18	200	U	200	200	
62-75-9	N-Nitrosodimethylamine	12/08/2010 20:18	200	U	200	200	
621-64-7	N-Nitroso-di-n-propylamine	12/08/2010 20:18	200	U	200	200	
86-30-6/122-39-4	N-Nitrosodiphenylamine & Diphn	12/08/2010 20:18	400	U	400	400	

CT Laboratories

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SEMIVOLATILE ORGANICS ANALYSIS (MB)

Sample Description

METHOD BLANK

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:		SDG No.:	82399
Sample wt/vol:	10.00 (g/L)	CTL Sample ID:	877491
% Solids:		Date Received:	11/11/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	12/03/2010 / 15:00
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35631
Analytical Run #:	72359	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
	Concentration Units:	ug/kg	

CAS NO.	Analyte	Analysis Date/Time	Concentration	Qualifiers	DL/LOD	Control Limit	RL
930-55-2	N-Nitrosopyrrolidine	12/08/2010 20:18	200	U	200	200	
87-86-5	Pentachlorophenol	12/08/2010 20:18	500	U	500	500	
85-01-8	Phenanthrene	12/08/2010 20:18	200	U	200	200	
108-95-2	Phenol	12/08/2010 20:18	250	U	250	250	
129-00-0	Pyrene	12/08/2010 20:18	200	U	200	200	
110-86-1	Pyridine	12/08/2010 20:18	200	U	200	200	

CT Laboratories

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SEMIVOLATILE ORGANICS ANALYSIS (MB)

Sample Description

METHOD BLANK

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:		SDG No.:	82399
Sample wt/vol:	10.07 (g/L)	CTL Sample ID:	877974
% Solids:		Date Received:	11/11/2010
Conc. Extract Vol:	20.0 (mL)	Date/Time Prepared:	12/06/2010 / 17:15
Analytical Method:	EPA 8330B	Analytical Prep Batch #	35669
Analytical Run #:	72415	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
	Concentration Units:	mg/kg	

CAS NO.	Analyte	Analysis Date/Time	Concentration	Qualifiers	DL/LOD	Control Limit	RL
99-35-4	1,3,5-Trinitrobenzene	12/14/2010 15:22	0.22	U	0.22	0.22	
99-65-0	1,3-Dinitrobenzene	12/14/2010 15:22	0.22	U	0.22	0.22	
118-96-7	2,4,6-Trinitrotoluene	12/14/2010 15:22	0.22	U	0.22	0.22	
121-14-2	2,4-Dinitrotoluene	12/14/2010 15:22	0.22	U	0.22	0.22	
606-20-2	2,6-Dinitrotoluene	12/14/2010 15:22	0.25	U	0.25	0.25	
35572-78-2	2-Amino-4,6-dinitrotoluene	12/14/2010 15:22	0.22	U	0.22	0.22	
88-72-2	2-Nitrotoluene	12/14/2010 15:22	0.22	U	0.22	0.22	
618-87-1	3,5-Dinitroaniline	12/14/2010 15:22	0.22	U	0.22	0.22	
99-08-1	3-Nitrotoluene	12/14/2010 15:22	0.22	U	0.22	0.22	
19406-51-0	4-Amino-2,6-dinitrotoluene	12/14/2010 15:22	0.22	U	0.22	0.22	
99-99-0	4-Nitrotoluene	12/14/2010 15:22	0.25	U	0.25	0.25	
2691-41-0	HMX	12/14/2010 15:22	0.22	U	0.22	0.22	
98-95-3	Nitrobenzene	12/14/2010 15:22	0.22	U	0.22	0.22	
55-63-0	Nitroglycerin	12/14/2010 15:22	0.75	U	0.75	0.75	
78-11-5	PETN	12/14/2010 15:22	0.75	U	0.75	0.75	
121-82-4	RDX	12/14/2010 15:22	0.22	U	0.22	0.22	
479-45-8	Tetryl	12/14/2010 15:22	0.22	U	0.22	0.22	

CT Laboratories

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SEMIVOLATILE ORGANICS ANALYSIS (MB)

Sample Description

METHOD BLANK

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:		SDG No.:	82399
Sample wt/vol:	5.00 (g/L)	CTL Sample ID:	877978
% Solids:		Date Received:	11/11/2010
Conc. Extract Vol:	10.0 (mL)	Date/Time Prepared:	12/06/2010 / 16:00
Analytical Method:	EPA 8330	Analytical Prep Batch #	35670
Analytical Run #:	72414	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
	Concentration Units:	mg/kg	

CAS NO.	Analyte	Analysis Date/Time	Concentration	Qualifiers	DL/LOD	Control Limit	RL
556-88-7	Nitroguanidine	12/17/2010 00:58	0.08	U	0.08	0.08	

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SOIL SEMI VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Analytical Method: EPA 8270C SDG: 82399

Analytical Run #: 72179

CTLab #	870201				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: 2,4,6-Tribromophenol	100	86	35	125	
Surr: 2-Fluorobiphenyl	100	78	45	105	
Surr: 2-Fluorophenol	100	78	35	105	
Surr: Nitrobenzene-d5	100	76	35	100	
Surr: Phenol-d5	100	81	40	100	
Surr: Terphenyl-d14	100	81	30	125	
CTLab #	**870203**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: 2,4,6-Tribromophenol	100	84	35	125	
Surr: 2-Fluorobiphenyl	100	77	45	105	
Surr: 2-Fluorophenol	100	76	35	105	
Surr: Nitrobenzene-d5	100	76	35	100	
Surr: Phenol-d5	100	81	40	100	
Surr: Terphenyl-d14	100	81	30	125	
CTLab #	**871184**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: 2,4,6-Tribromophenol	100	74	35	125	
Surr: 2-Fluorobiphenyl	100	82	45	105	
Surr: 2-Fluorophenol	100	78	35	105	
Surr: Nitrobenzene-d5	100	79	35	100	
Surr: Phenol-d5	100	83	40	100	
Surr: Terphenyl-d14	100	89	30	125	
CTLab #	**871186**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: 2,4,6-Tribromophenol	100	78	35	125	
Surr: 2-Fluorobiphenyl	100	77	45	105	
Surr: 2-Fluorophenol	100	76	35	105	
Surr: Nitrobenzene-d5	100	76	35	100	
Surr: Phenol-d5	100	82	40	100	
Surr: Terphenyl-d14	100	84	30	125	
CTLab #	**871197**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: 2,4,6-Tribromophenol	100	79	35	125	
Surr: 2-Fluorobiphenyl	100	79	45	105	
Surr: 2-Fluorophenol	100	76	35	105	
Surr: Nitrobenzene-d5	100	77	35	100	
Surr: Phenol-d5	100	81	40	100	
Surr: Terphenyl-d14	100	87	30	125	

CT LABORATORIES
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SOIL SEMI VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Analytical Method: EPA 8270C SDG: 82399

Analytical Run #: 72179

CTLab #	871198				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: 2,4,6-Tribromophenol	100	69	35	125	
Surr: 2-Fluorobiphenyl	100	72	45	105	
Surr: 2-Fluorophenol	100	69	35	105	
Surr: Nitrobenzene-d5	100	69	35	100	
Surr: Phenol-d5	100	73	40	100	
Surr: Terphenyl-d14	100	74	30	125	
CTLab #	**874146**	Sample Type:		Matrix Spike	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: 2,4,6-Tribromophenol	100	99.5	35	125	
Surr: 2-Fluorobiphenyl	100	87.1	45	105	
Surr: 2-Fluorophenol	100	84.0	35	105	
Surr: Nitrobenzene-d5	100	86.2	35	100	
Surr: Phenol-d5	100	87.5	40	100	
Surr: Terphenyl-d14	100	90.1	30	125	
CTLab #	**874147**	Sample Type:		Matrix Spike Duplicate	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: 2,4,6-Tribromophenol	100	99.7	35	125	
Surr: 2-Fluorobiphenyl	100	87.3	45	105	
Surr: 2-Fluorophenol	100	84.6	35	105	
Surr: Nitrobenzene-d5	100	87.4	35	100	
Surr: Phenol-d5	100	85.6	40	100	
Surr: Terphenyl-d14	100	90.0	30	125	
CTLab #	**874148**	Sample Type:		Method Blank	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: 2,4,6-Tribromophenol	100	76.1	35	125	
Surr: 2-Fluorobiphenyl	100	87.2	45	105	
Surr: 2-Fluorophenol	100	77.4	35	105	
Surr: Nitrobenzene-d5	100	81.5	35	100	
Surr: Phenol-d5	100	84.3	40	100	
Surr: Terphenyl-d14	100	89.2	30	125	
CTLab #	**874149**	Sample Type:		Lab Control Spike	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: 2,4,6-Tribromophenol	100	91.9	35	125	
Surr: 2-Fluorobiphenyl	100	86.6	45	105	
Surr: 2-Fluorophenol	100	78.2	35	105	
Surr: Nitrobenzene-d5	100	83.4	35	100	
Surr: Phenol-d5	100	84.9	40	100	
Surr: Terphenyl-d14	100	88.1	30	125	

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SOIL SEMI VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Analytical Method: EPA 8270C SDG: 82399

Analytical Run #: 72359

CTLab #	870189				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: 2,4,6-Tribromophenol	100	73	35	125	
Surr: 2-Fluorobiphenyl	100	72	45	105	
Surr: 2-Fluorophenol	100	70	35	105	
Surr: Nitrobenzene-d5	100	70	35	100	
Surr: Phenol-d5	100	77	40	100	
Surr: Terphenyl-d14	100	79	30	125	
CTLab #	**870194**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: 2,4,6-Tribromophenol	100	80	35	125	
Surr: 2-Fluorobiphenyl	100	70	45	105	
Surr: 2-Fluorophenol	100	67	35	105	
Surr: Nitrobenzene-d5	100	63	35	100	
Surr: Phenol-d5	100	74	40	100	
Surr: Terphenyl-d14	100	75	30	125	
CTLab #	**870195**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: 2,4,6-Tribromophenol	100	81	35	125	
Surr: 2-Fluorobiphenyl	100	72	45	105	
Surr: 2-Fluorophenol	100	69	35	105	
Surr: Nitrobenzene-d5	100	70	35	100	
Surr: Phenol-d5	100	71	40	100	
Surr: Terphenyl-d14	100	76	30	125	
CTLab #	**870212**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: 2,4,6-Tribromophenol	100	73	35	125	
Surr: 2-Fluorobiphenyl	100	73	45	105	
Surr: 2-Fluorophenol	100	64	35	105	
Surr: Nitrobenzene-d5	100	69	35	100	
Surr: Phenol-d5	100	72	40	100	
Surr: Terphenyl-d14	100	79	30	125	
CTLab #	**877489**	Sample Type:		Matrix Spike	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: 2,4,6-Tribromophenol	100	72.8	35	125	
Surr: 2-Fluorobiphenyl	100	70.3	45	105	
Surr: 2-Fluorophenol	100	65.0	35	105	
Surr: Nitrobenzene-d5	100	67.1	35	100	
Surr: Phenol-d5	100	67.9	40	100	
Surr: Terphenyl-d14	100	79.9	30	125	

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SOIL SEMI VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Analytical Method:	EPA 8270C	SDG:	82399
Analytical Run #:	72359		

CTLab #	877490	Sample Type:	Matrix Spike Duplicate		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: 2,4,6-Tribromophenol	100	79.0	35	125	
Surr: 2-Fluorobiphenyl	100	78.9	45	105	
Surr: 2-Fluorophenol	100	67.3	35	105	
Surr: Nitrobenzene-d5	100	75.2	35	100	
Surr: Phenol-d5	100	76.7	40	100	
Surr: Terphenyl-d14	100	86.2	30	125	

CTLab #	877491	Sample Type:	Method Blank		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: 2,4,6-Tribromophenol	100	69.9	35	125	
Surr: 2-Fluorobiphenyl	100	72.4	45	105	
Surr: 2-Fluorophenol	100	59.3	35	105	
Surr: Nitrobenzene-d5	100	62.9	35	100	
Surr: Phenol-d5	100	70.4	40	100	
Surr: Terphenyl-d14	100	80.6	30	125	

CTLab #	877492	Sample Type:	Lab Control Spike		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: 2,4,6-Tribromophenol	100	72.0	35	125	
Surr: 2-Fluorobiphenyl	100	71.0	45	105	
Surr: 2-Fluorophenol	100	66.6	35	105	
Surr: Nitrobenzene-d5	100	71.1	35	100	
Surr: Phenol-d5	100	73.0	40	100	
Surr: Terphenyl-d14	100	76.2	30	125	

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SOIL SEMI VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Analytical Method: EPA 8330 SDG: 82399

Analytical Run #: 72412

CTLab #	870201				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	97	50	150	

CTLab #	870203				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	92	50	150	

CTLab #	871184				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	130	50	150	

CTLab #	871186				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	86	50	150	

CTLab #	871197				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	89	50	150	

CTLab #	871198				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	89	50	150	

CTLab #	875959	Sample Type:	Method Blank		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	98.3	50	150	

CTLab #	875960	Sample Type:	Lab Control Spike		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	90.4	50	150	

CTLab #	875962	Sample Type:	Matrix Spike		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	93.8	50	150	

CTLab #	875963	Sample Type:	Matrix Spike Duplicate		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	92.2	50	150	

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SOIL SEMI VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: CT Laboratories | Contract: USACE - LOUISVILLE-RAVENNA

Analytical Method: EPA 8330 | SDG: 82399

Analytical Run #: 72414

CTLab #	870189				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	90	50	150	

CTLab #	870194				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	143	50	150	

CTLab #	870195				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	136	50	150	

CTLab #	870212				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	92	50	150	

CTLab #	877978	Sample Type:	Method Blank		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	99.6	50	150	

CTLab #	877979	Sample Type:	Lab Control Spike		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	94.7	50	150	

CTLab #	877981	Sample Type:	Matrix Spike		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	88.9	50	150	

CTLab #	877982	Sample Type:	Matrix Spike Duplicate		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	87.9	50	150	

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SOIL SEMI VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Analytical Method: EPA 8330B SDG: 82399

Analytical Run #: 72413

CTLab #	870201				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	110	75	127	
CTLab #	**870203**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	142	75	127	*FAIL*
CTLab #	**871184**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	140	75	127	*FAIL*
CTLab #	**871186**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	132	75	127	*FAIL*
CTLab #	**871197**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	111	75	127	
CTLab #	**871198**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	122	75	127	
CTLab #	**875951**	Sample Type:		Method Blank	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene		106	79	120	
CTLab #	**875952**	Sample Type:		Lab Control Spike	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	118	79	120	
CTLab #	**875953**	Sample Type:		Matrix Spike	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	109	75	127	
CTLab #	**875954**	Sample Type:		Matrix Spike Duplicate	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	112	75	127	

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SOIL SEMI VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: CT Laboratories | Contract: USACE - LOUISVILLE-RAVENNA

Analytical Method: EPA 8330B | SDG: 82399

Analytical Run #: 72415

CTLab #	870189				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	125	75	127	

CTLab #	870194				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	112	75	127	

CTLab #	870195				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	120	75	127	

CTLab #	870212				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	106	75	127	

CTLab #	877974	Sample Type:	Method Blank		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene		102	79	120	

CTLab #	877975	Sample Type:	Lab Control Spike		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	117	79	120	

CTLab #	877976	Sample Type:	Matrix Spike		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	103	75	127	

CTLab #	877977	Sample Type:	Matrix Spike Duplicate		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	102	75	127	

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SOIL SEMIVOLATILE MATRIX SPIKE RECOVERY

Sample Description

DLASS-002-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOIL SDG No.: 82399

Analytical Method: EPA 8270C Concentration Units: ug/kg

Analytical Run #: 72359 Sample No.: 877489 Parent Sample No.: 870189

Analytical Prep Batch #: 35631 Analytical Preparation Date/Time: 12/03/2010 15:00

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R	
1,2,4-Trichlorobenzene	12/08/2010	23:40	45-110	1370	0	2030	67	
1,2-Dichlorobenzene	12/08/2010	23:40	45-95	1300	0	2030	64	
1,3-Dichlorobenzene	12/08/2010	23:40	40-100	1300	0	2030	64	
1,4-Dichlorobenzene	12/08/2010	23:40	35-105	1300	0	2030	64	
1-Methylnaphthalene	12/08/2010	23:40	50-150	1480	25	2030	72	
2,4,5-Trichlorophenol	12/08/2010	23:40	50-110	1440	0	2030	71	
2,4,6-Trichlorophenol	12/08/2010	23:40	45-110	1420	0	2030	70	
2,4-Dichlorophenol	12/08/2010	23:40	45-110	1510	0	2030	74	
2,4-Dimethylphenol	12/08/2010	23:40	30-105	650	0	2030	32	
2,4-Dinitrophenol	12/08/2010	23:40	15-130	275	0	2030	14	*FAIL*
2,4-Dinitrotoluene	12/08/2010	23:40	50-115	1550	0	2030	76	
2,6-Dichlorophenol	12/08/2010	23:40	48-126	1400	0	2030	69	
2,6-Dinitrotoluene	12/08/2010	23:40	50-110	1490	0	2030	73	
2-Chloronaphthalene	12/08/2010	23:40	45-105	1430	0	2030	70	
2-Chlorophenol	12/08/2010	23:40	45-105	1370	0	2030	67	
2-Methylnaphthalene	12/08/2010	23:40	45-105	1460	36	2030	70	
2-Methylphenol	12/08/2010	23:40	40-105	1250	0	2030	62	
2-Nitroaniline	12/08/2010	23:40	45-120	1530	0	2030	75	
2-Nitrophenol	12/08/2010	23:40	40-110	1260	0	2030	62	
3 & 4-Methylphenol	12/08/2010	23:40	40-105	1380	0	2030	68	
3,3'-Dichlorobenzidine	12/08/2010	23:40	10-130	0	0	2030	0	*FAIL*
3-Nitroaniline	12/08/2010	23:40	25-110	419	0	2030	21	*FAIL*
4,6-Dinitro-2-methylphenol	12/08/2010	23:40	30-135	99.4	0	2030	5	*FAIL*
4-Bromophenyl-phenyl ether	12/08/2010	23:40	45-115	1530	0	2030	75	
4-Chloro-3-methylphenol	12/08/2010	23:40	45-115	1520	0	2030	75	
4-Chloroaniline	12/08/2010	23:40	10-95	75.8	0	2030	4	*FAIL*
4-Chlorophenyl-phenyl ether	12/08/2010	23:40	45-110	1460	0	2030	72	
4-Nitroaniline	12/08/2010	23:40	35-115	736	0	2030	36	
4-Nitrophenol	12/08/2010	23:40	15-140	1320	0	2030	65	
Acenaphthene	12/08/2010	23:40	45-110	1480	9.9	2030	72	
Acenaphthylene	12/08/2010	23:40	45-105	1490	33	2030	72	
Acetophenone	12/08/2010	23:40	25-96	1320	0	2030	65	

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Sample Description

SOIL SEMIVOLATILE MATRIX SPIKE RECOVERY

DLASS-002-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOIL SDG No.: 82399

Analytical Method: EPA 8270C Concentration Units: ug/kg

Analytical Run #: 72359 Sample No.: 877489 Parent Sample No.: 870189

Analytical Prep Batch #: 35631 Analytical Preparation Date/Time: 12/03/2010 15:00

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R	
Aniline	12/08/2010	23:40	14-110	0	0	2030	0	*FAIL*
Anthracene	12/08/2010	23:40	55-105	1560	97	2030	72	
Azobenzene & 1,2-Diphenylhydra	12/08/2010	23:40	55-115	2980	0	4060	73	
Benzidine	12/08/2010	23:40	1-161	0	0	2030	0	*FAIL*
Benzo(a)anthracene	12/08/2010	23:40	50-110	1900	370	2030	75	
Benzo(a)pyrene	12/08/2010	23:40	50-110	1730	280	2030	71	
Benzo(b)fluoranthene	12/08/2010	23:40	45-115	1960	440	2030	75	
Benzo(g,h,i)perylene	12/08/2010	23:40	40-125	1240	150	2030	54	
Benzo(k)fluoranthene	12/08/2010	23:40	45-125	1820	170	2030	81	
Benzoic acid	12/08/2010	23:40	0-110	413	350	2030	3	
Benzyl alcohol	12/08/2010	23:40	20-125	1170	0	2030	58	
Bis(2-chloroethoxy)methane	12/08/2010	23:40	45-110	1450	0	2030	71	
Bis(2-chloroethyl)ether	12/08/2010	23:40	40-105	1320	0	2030	65	
Bis(2-chloroisopropyl)ether	12/08/2010	23:40	20-115	1280	0	2030	63	
Bis(2-ethylhexyl)phthalate	12/08/2010	23:40	45-125	1770	220	2030	76	
Butylbenzylphthalate	12/08/2010	23:40	50-125	1590	0	2030	78	
Carbazole	12/08/2010	23:40	45-115	1590	27	2030	77	
Chrysene	12/08/2010	23:40	55-110	1850	360	2030	73	
Dibenzo(a,h)anthracene	12/08/2010	23:40	40-125	1250	50	2030	59	
Dibenzofuran	12/08/2010	23:40	50-105	1510	15	2030	74	
Diethylphthalate	12/08/2010	23:40	50-115	1510	24	2030	73	
Dimethylphthalate	12/08/2010	23:40	50-110	1450	0	2030	71	
Di-n-butylphthalate	12/08/2010	23:40	55-110	1630	90	2030	76	
Di-n-octylphthalate	12/08/2010	23:40	40-130	1520	0	2030	75	
Fluoranthene	12/08/2010	23:40	55-115	2230	720	2030	74	
Fluorene	12/08/2010	23:40	50-110	1500	24	2030	73	
Hexachlorobenzene	12/08/2010	23:40	45-120	1460	0	2030	72	
Hexachlorobutadiene	12/08/2010	23:40	40-115	1320	0	2030	65	
Hexachlorocyclopentadiene	12/08/2010	23:40	30-137	405	0	2030	20	*FAIL*
Hexachloroethane	12/08/2010	23:40	35-110	1190	0	2030	59	
Indeno(1,2,3-cd)pyrene	12/08/2010	23:40	40-120	1330	150	2030	58	
Isophorone	12/08/2010	23:40	45-110	1370	0	2030	67	

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Sample Description

SOIL SEMIVOLATILE MATRIX SPIKE RECOVERY

DLASS-002-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOIL SDG No.: 82399

Analytical Method: EPA 8270C Concentration Units: ug/kg

Analytical Run #: 72359 Sample No.: 877489 Parent Sample No.: 870189

Analytical Prep Batch #: 35631 Analytical Preparation Date/Time: 12/03/2010 15:00

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R	
Naphthalene	12/08/2010	23:40	40-105	1430	27	2030	69	
Nitrobenzene	12/08/2010	23:40	40-115	1410	0	2030	69	
N-Nitrosodimethylamine	12/08/2010	23:40	20-115	1240	0	2030	61	
N-Nitroso-di-n-propylamine	12/08/2010	23:40	40-115	1280	0	2030	63	
N-Nitrosodiphenylamine & Diphn	12/08/2010	23:40	50-115	2840	0	4060	70	
N-Nitrosopyrrolidine	12/08/2010	23:40	59-110	1360	0	2030	67	
Pentachlorophenol	12/08/2010	23:40	25-120	514	0	2030	25	
Phenanthrene	12/08/2010	23:40	50-110	1800	320	2030	73	
Phenol	12/08/2010	23:40	40-100	1430	0	2030	70	
Pyrene	12/08/2010	23:40	45-125	2190	570	2030	80	
Pyridine	12/08/2010	23:40	16-121	0	0	2030	0	*FAIL*

Spike Recovery: 9 out of 75 outside QC limits

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Sample Description

SOIL SEMIVOLATILE MATRIX SPIKE RECOVERY

DLASS-002-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOIL SDG No.: 82399

Analytical Method: EPA 8330 Concentration Units: mg/kg

Analytical Run #: 72414 Sample No.: 877981 Parent Sample No.: 870189

Analytical Prep Batch #: 35670 Analytical Preparation Date/Time: 12/06/2010 16:00

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
Nitroguanidine	12/17/2010 01:41	50-150	2.03	0.11	1.98	97

Spike Recovery: 0 out of 1 outside QC limits

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SOIL SEMIVOLATILE MATRIX SPIKE RECOVERY

Sample Description

DLASS-002-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOIL SDG No.: 82399

Analytical Method: EPA 8330B Concentration Units: mg/kg

Analytical Run #: 72415 Sample No.: 877976 Parent Sample No.: 870189

Analytical Prep Batch #: 35669 Analytical Preparation Date/Time: 12/06/2010 17:15

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R	
1,3,5-Trinitrobenzene	12/14/2010	17:50	72-121	2.00	0	2.01	100	
1,3-Dinitrobenzene	12/14/2010	17:50	74-120	2.20	0	2.01	109	
2,4,6-Trinitrotoluene	12/14/2010	17:50	56-135	2.23	0	2.01	111	
2,4-Dinitrotoluene	12/14/2010	17:50	64-131	2.21	0	2.01	110	
2,6-Dinitrotoluene	12/14/2010	17:50	63-131	1.96	0	2.01	98	
2-Amino-4,6-dinitrotoluene	12/14/2010	17:50	71-118	2.13	0	2.01	106	
2-Nitrotoluene	12/14/2010	17:50	78-113	2.33	0	2.01	116	*FAIL*
3,5-Dinitroaniline	12/14/2010	17:50	1-153	2.12	0	2.01	105	
3-Nitrotoluene	12/14/2010	17:50	74-115	2.28	0	2.01	113	
4-Amino-2,6-dinitrotoluene	12/14/2010	17:50	72-123	1.67	0	2.01	83	
4-Nitrotoluene	12/14/2010	17:50	80-110	2.07	0	2.01	103	
HMX	12/14/2010	17:50	59-133	2.00	0	2.01	100	
Nitrobenzene	12/14/2010	17:50	73-120	2.13	0	2.01	106	
Nitroglycerin	12/14/2010	17:50	76-130	8.89	0	8.06	110	
PETN	12/14/2010	17:50	74-123	8.47	0	8.06	105	
RDX	12/14/2010	17:50	55-120	1.84	0	2.01	92	
Tetryl	12/14/2010	17:50	30-155	1.75	0	2.01	87	

Spike Recovery: 1 out of 17 outside QC limits

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SOIL SEMIVOLATILE MATRIX SPIKE RECOVERY

Sample Description

DLASS-014-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOIL SDG No.: 82399

Analytical Method: EPA 8270C Concentration Units: ug/kg

Analytical Run #: 72179 Sample No.: 874146 Parent Sample No.: 870201

Analytical Prep Batch #: 35517 Analytical Preparation Date/Time: 11/22/2010 10:00

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R	
1,2,4-Trichlorobenzene	12/02/2010	20:06	45-110	1660	0	2070	80	
1,2-Dichlorobenzene	12/02/2010	20:06	45-95	1630	15	2070	78	
1,3-Dichlorobenzene	12/02/2010	20:06	40-100	1600	0	2070	77	
1,4-Dichlorobenzene	12/02/2010	20:06	35-105	1610	0	2070	78	
1-Methylnaphthalene	12/02/2010	20:06	50-150	1720	29	2070	82	
2,4,5-Trichlorophenol	12/02/2010	20:06	50-110	1950	0	2070	94	
2,4,6-Trichlorophenol	12/02/2010	20:06	45-110	1840	0	2070	89	
2,4-Dichlorophenol	12/02/2010	20:06	45-110	1810	0	2070	87	
2,4-Dimethylphenol	12/02/2010	20:06	30-105	1680	0	2070	81	
2,4-Dinitrophenol	12/02/2010	20:06	15-130	371	0	2070	18	
2,4-Dinitrotoluene	12/02/2010	20:06	50-115	1880	0	2070	91	
2,6-Dichlorophenol	12/02/2010	20:06	48-126	1730	0	2070	84	
2,6-Dinitrotoluene	12/02/2010	20:06	50-110	1890	0	2070	91	
2-Chloronaphthalene	12/02/2010	20:06	45-105	1750	0	2070	85	
2-Chlorophenol	12/02/2010	20:06	45-105	1710	0	2070	83	
2-Methylnaphthalene	12/02/2010	20:06	45-105	1760	35	2070	83	
2-Methylphenol	12/02/2010	20:06	40-105	1840	0	2070	89	
2-Nitroaniline	12/02/2010	20:06	45-120	1830	0	2070	88	
2-Nitrophenol	12/02/2010	20:06	40-110	1670	0	2070	81	
3 & 4-Methylphenol	12/02/2010	20:06	40-105	1890	0	2070	91	
3,3'-Dichlorobenzidine	12/02/2010	20:06	10-130	0	0	2070	0	*FAIL*
3-Nitroaniline	12/02/2010	20:06	25-110	253	0	2070	12	*FAIL*
4,6-Dinitro-2-methylphenol	12/02/2010	20:06	30-135	1320	0	2070	64	
4-Bromophenyl-phenyl ether	12/02/2010	20:06	45-115	1830	0	2070	88	
4-Chloro-3-methylphenol	12/02/2010	20:06	45-115	1850	0	2070	89	
4-Chloroaniline	12/02/2010	20:06	10-95	30.7	0	2070	1	*FAIL*
4-Chlorophenyl-phenyl ether	12/02/2010	20:06	45-110	1790	0	2070	86	
4-Nitroaniline	12/02/2010	20:06	35-115	546	0	2070	26	*FAIL*
4-Nitrophenol	12/02/2010	20:06	15-140	2010	0	2070	97	
Acenaphthene	12/02/2010	20:06	45-110	1810	16	2070	87	
Acenaphthylene	12/02/2010	20:06	45-105	1780	9.2	2070	86	
Acetophenone	12/02/2010	20:06	25-96	1700	0	2070	82	

CT LABORATORIES
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SOIL SEMIVOLATILE MATRIX SPIKE RECOVERY

Sample Description

DLASS-014-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOIL SDG No.: 82399

Analytical Method: EPA 8270C Concentration Units: ug/kg

Analytical Run #: 72179 Sample No.: 874146 Parent Sample No.: 870201

Analytical Prep Batch #: 35517 Analytical Preparation Date/Time: 11/22/2010 10:00

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R	
Aniline	12/02/2010	20:06	14-110	27.9	0	2070	1	*FAIL*
Anthracene	12/02/2010	20:06	55-105	1800	37	2070	85	
Azobenzene & 1,2-Diphenylhydra	12/02/2010	20:06	55-115	3500	0	4140	85	
Benzidine	12/02/2010	20:06	1-161	0	0	2070	0	*FAIL*
Benzo(a)anthracene	12/02/2010	20:06	50-110	1950	190	2070	85	
Benzo(a)pyrene	12/02/2010	20:06	50-110	1870	180	2070	82	
Benzo(b)fluoranthene	12/02/2010	20:06	45-115	1960	300	2070	80	
Benzo(g,h,i)perylene	12/02/2010	20:06	40-125	1680	120	2070	75	
Benzo(k)fluoranthene	12/02/2010	20:06	45-125	1920	130	2070	86	
Benzoic acid	12/02/2010	20:06	0-110	809	980	2070	-8	*FAIL*
Benzyl alcohol	12/02/2010	20:06	20-125	631	0	2070	30	
Bis(2-chloroethoxy)methane	12/02/2010	20:06	45-110	1690	0	2070	82	
Bis(2-chloroethyl)ether	12/02/2010	20:06	40-105	1660	0	2070	80	
Bis(2-chloroisopropyl)ether	12/02/2010	20:06	20-115	1650	0	2070	80	
Bis(2-ethylhexyl)phthalate	12/02/2010	20:06	45-125	2790	900	2070	91	
Butylbenzylphthalate	12/02/2010	20:06	50-125	1870	10	2070	90	
Carbazole	12/02/2010	20:06	45-115	1840	32	2070	87	
Chrysene	12/02/2010	20:06	55-110	1960	210	2070	85	
Dibenzo(a,h)anthracene	12/02/2010	20:06	40-125	1650	35	2070	78	
Dibenzofuran	12/02/2010	20:06	50-105	1830	20	2070	87	
Diethylphthalate	12/02/2010	20:06	50-115	1860	54	2070	87	
Dimethylphthalate	12/02/2010	20:06	50-110	1790	0	2070	86	
Di-n-butylphthalate	12/02/2010	20:06	55-110	2000	120	2070	91	
Di-n-octylphthalate	12/02/2010	20:06	40-130	1890	0	2070	91	
Fluoranthene	12/02/2010	20:06	55-115	2290	480	2070	87	
Fluorene	12/02/2010	20:06	50-110	1810	20	2070	86	
Hexachlorobenzene	12/02/2010	20:06	45-120	1750	0	2070	85	
Hexachlorobutadiene	12/02/2010	20:06	40-115	1640	0	2070	79	
Hexachlorocyclopentadiene	12/02/2010	20:06	30-137	810	0	2070	39	
Hexachloroethane	12/02/2010	20:06	35-110	1560	0	2070	75	
Indeno(1,2,3-cd)pyrene	12/02/2010	20:06	40-120	1770	120	2070	80	
Isophorone	12/02/2010	20:06	45-110	1630	0	2070	79	

CT LABORATORIES
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Sample Description

SOIL SEMIVOLATILE MATRIX SPIKE RECOVERY

DLASS-014-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOIL SDG No.: 82399

Analytical Method: EPA 8270C Concentration Units: ug/kg

Analytical Run #: 72179 Sample No.: 874146 Parent Sample No.: 870201

Analytical Prep Batch #: 35517 Analytical Preparation Date/Time: 11/22/2010 10:00

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R	
Naphthalene	12/02/2010	20:06	40-105	1730	30	2070	82	
Nitrobenzene	12/02/2010	20:06	40-115	1740	0	2070	84	
N-Nitrosodimethylamine	12/02/2010	20:06	20-115	1440	0	2070	70	
N-Nitroso-di-n-propylamine	12/02/2010	20:06	40-115	1700	0	2070	82	
N-Nitrosodiphenylamine & Diphn	12/02/2010	20:06	50-115	3490	0	4140	84	
N-Nitrosopyrrolidine	12/02/2010	20:06	59-110	1650	0	2070	80	
Pentachlorophenol	12/02/2010	20:06	25-120	1520	0	2070	73	
Phenanthrene	12/02/2010	20:06	50-110	2050	250	2070	87	
Phenol	12/02/2010	20:06	40-100	1840	27	2070	88	
Pyrene	12/02/2010	20:06	45-125	2180	370	2070	87	
Pyridine	12/02/2010	20:06	16-121	0	0	2070	0	*FAIL*

Spike Recovery: 8 out of 75 outside QC limits

CT LABORATORIES
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Sample Description

SOIL SEMIVOLATILE MATRIX SPIKE RECOVERY

DLASS-014-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOIL SDG No.: 82399

Analytical Method: EPA 8330 Concentration Units: mg/kg

Analytical Run #: 72412 Sample No.: 875962 Parent Sample No.: 870201

Analytical Prep Batch #: 35573 Analytical Preparation Date/Time: 12/02/2010 12:00

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
Nitroguanidine	12/16/2010 22:35	50-150	2.13	0.30	1.93	95

Spike Recovery: 0 out of 1 outside QC limits

CT LABORATORIES
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SOIL SEMIVOLATILE MATRIX SPIKE RECOVERY

Sample Description

DLASS-014-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOIL SDG No.: 82399

Analytical Method: EPA 8330B Concentration Units: mg/kg

Analytical Run #: 72413 Sample No.: 875953 Parent Sample No.: 870201

Analytical Prep Batch #: 35571 Analytical Preparation Date/Time: 12/02/2010 13:30

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
1,3,5-Trinitrobenzene	12/14/2010	11:07	72-121	1.99	0	2.01	99
1,3-Dinitrobenzene	12/14/2010	11:07	74-120	2.07	0	2.01	103
2,4,6-Trinitrotoluene	12/14/2010	11:07	56-135	2.15	0	2.01	107
2,4-Dinitrotoluene	12/14/2010	11:07	64-131	2.15	0	2.01	107
2,6-Dinitrotoluene	12/14/2010	11:07	63-131	2.15	0	2.01	107
2-Amino-4,6-dinitrotoluene	12/14/2010	11:07	71-118	1.98	0	2.01	99
2-Nitrotoluene	12/14/2010	11:07	78-113	2.01	0	2.01	100
3,5-Dinitroaniline	12/14/2010	11:07	1-153	1.98	0	2.01	99
3-Nitrotoluene	12/14/2010	11:07	74-115	2.03	0	2.01	101
4-Amino-2,6-dinitrotoluene	12/14/2010	11:07	72-123	1.76	0	2.01	88
4-Nitrotoluene	12/14/2010	11:07	80-110	2.02	0	2.01	100
HMX	12/14/2010	11:07	59-133	1.84	0	2.01	92
Nitrobenzene	12/14/2010	11:07	73-120	2.09	0	2.01	104
Nitroglycerin	12/14/2010	11:07	76-130	7.96	0	8.04	99
PETN	12/14/2010	11:07	74-123	9.07	0	8.04	113
RDX	12/14/2010	11:07	55-120	1.85	0	2.01	92
Tetryl	12/14/2010	11:07	30-155	1.62	0	2.01	81

Spike Recovery: 0 out of 17 outside QC limits

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Sample Description

SOIL SEMIVOLATILE MATRIX SPIKE DUPLICATE RECOVERY

DLASS-002-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOIL SDG No.: 82399

Analytical Method: EPA 8270C Concentration Units: ug/kg

Analytical Run #: 72359 Sample No.: 877490 Parent Sample No.: 877489

Analytical Prep Batch #: 35631 Analytical Preparation Date/Time: 12/03/2010 15:00

Analyte	Analysis Date/Time		Spike Result	Spike Amount	%R	%RPD	Control Limits (%R)	Control Limits (%RPD)	
1,2,4-Trichlorobenzene	12/09/2010	00:00	1580	2030	78	14	45-110	30	
1,2-Dichlorobenzene	12/09/2010	00:00	1550	2030	76	17	45-95	30	
1,3-Dichlorobenzene	12/09/2010	00:00	1530	2030	75	16	40-100	30	
1,4-Dichlorobenzene	12/09/2010	00:00	1520	2030	75	16	35-105	30	
1-Methylnaphthalene	12/09/2010	00:00	1750	2030	85	16	50-150	30	
2,4,5-Trichlorophenol	12/09/2010	00:00	1640	2030	81	13	50-110	30	
2,4,6-Trichlorophenol	12/09/2010	00:00	1640	2030	81	14	45-110	30	
2,4-Dichlorophenol	12/09/2010	00:00	1770	2030	87	16	45-110	30	
2,4-Dimethylphenol	12/09/2010	00:00	514	2030	25	23	30-105	30	*FAIL*
2,4-Dinitrophenol	12/09/2010	00:00	252	2030	12	9	15-130	30	*FAIL*
2,4-Dinitrotoluene	12/09/2010	00:00	1700	2030	84	9	50-115	30	
2,6-Dichlorophenol	12/09/2010	00:00	1650	2030	81	16	48-126	30	
2,6-Dinitrotoluene	12/09/2010	00:00	1680	2030	83	12	50-110	30	
2-Chloronaphthalene	12/09/2010	00:00	1630	2030	80	13	45-105	30	
2-Chlorophenol	12/09/2010	00:00	1500	2030	74	10	45-105	30	
2-Methylnaphthalene	12/09/2010	00:00	1730	2030	83	17	45-105	30	
2-Methylphenol	12/09/2010	00:00	1430	2030	70	14	40-105	30	
2-Nitroaniline	12/09/2010	00:00	1710	2030	84	11	45-120	30	
2-Nitrophenol	12/09/2010	00:00	1480	2030	73	16	40-110	30	
3 & 4-Methylphenol	12/09/2010	00:00	1560	2030	77	12	40-105	30	
3,3'-Dichlorobenzidine	12/09/2010	00:00	0	2030	0	0	10-130	30	*FAIL*
3-Nitroaniline	12/09/2010	00:00	430	2030	21	2	25-110	30	*FAIL*
4,6-Dinitro-2-methylphenol	12/09/2010	00:00	56.3	2030	3	55	30-135	30	*FAIL*
4-Bromophenyl-phenyl ether	12/09/2010	00:00	1740	2030	86	13	45-115	30	
4-Chloro-3-methylphenol	12/09/2010	00:00	1770	2030	87	15	45-115	30	
4-Chloroaniline	12/09/2010	00:00	62.8	2030	3	19	10-95	30	*FAIL*
4-Chlorophenyl-phenyl ether	12/09/2010	00:00	1640	2030	81	12	45-110	30	
4-Nitroaniline	12/09/2010	00:00	896	2030	44	19	35-115	30	
4-Nitrophenol	12/09/2010	00:00	1480	2030	73	11	15-140	30	
Acenaphthene	12/09/2010	00:00	1670	2030	82	12	45-110	30	
Acenaphthylene	12/09/2010	00:00	1670	2030	81	11	45-105	30	
Acetophenone	12/09/2010	00:00	1470	2030	72	11	25-96	30	

CT LABORATORIES
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Sample Description

DLASS-002-0001-SO

SOIL SEMIVOLATILE MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOIL SDG No.: 82399

Analytical Method: EPA 8270C Concentration Units: ug/kg

Analytical Run #: 72359 Sample No.: 877490 Parent Sample No.: 877489

Analytical Prep Batch #: 35631 Analytical Preparation Date/Time: 12/03/2010 15:00

Analyte	Analysis Date/Time	Spike Result	Spike Amount	%R	%RPD	Control Limits (%R)	Control Limits (%RPD)	
Aniline	12/09/2010 00:00	0	2030	0	0	14-110	30	*FAIL*
Anthracene	12/09/2010 00:00	1740	2030	81	11	55-105	30	
Azobenzene & 1,2-Diphenylhydra	12/09/2010 00:00	3410	4060	84	13	55-115	30	
Benzidine	12/09/2010 00:00	0	2030	0	0	1-161	30	*FAIL*
Benzo(a)anthracene	12/09/2010 00:00	2090	2030	85	9	50-110	30	
Benzo(a)pyrene	12/09/2010 00:00	1890	2030	79	9	50-110	30	
Benzo(b)fluoranthene	12/09/2010 00:00	2310	2030	92	16	45-115	30	
Benzo(g,h,i)perylene	12/09/2010 00:00	1270	2030	55	2	40-125	30	
Benzo(k)fluoranthene	12/09/2010 00:00	1900	2030	85	4	45-125	30	
Benzoic acid	12/09/2010 00:00	375	2030	1	10	0-110	30	
Benzyl alcohol	12/09/2010 00:00	1430	2030	70	19	20-125	30	
Bis(2-chloroethoxy)methane	12/09/2010 00:00	1700	2030	84	16	45-110	30	
Bis(2-chloroethyl)ether	12/09/2010 00:00	1500	2030	74	12	40-105	30	
Bis(2-chloroisopropyl)ether	12/09/2010 00:00	1430	2030	70	11	20-115	30	
Bis(2-ethylhexyl)phthalate	12/09/2010 00:00	2010	2030	88	13	45-125	30	
Butylbenzylphthalate	12/09/2010 00:00	1800	2030	89	12	50-125	30	
Carbazole	12/09/2010 00:00	1770	2030	86	10	45-115	30	
Chrysene	12/09/2010 00:00	2050	2030	83	10	55-110	30	
Dibenzo(a,h)anthracene	12/09/2010 00:00	1350	2030	64	8	40-125	30	
Dibenzofuran	12/09/2010 00:00	1670	2030	82	10	50-105	30	
Diethylphthalate	12/09/2010 00:00	1660	2030	81	10	50-115	30	
Dimethylphthalate	12/09/2010 00:00	1650	2030	81	13	50-110	30	
Di-n-butylphthalate	12/09/2010 00:00	1840	2030	86	12	55-110	30	
Di-n-octylphthalate	12/09/2010 00:00	1690	2030	83	11	40-130	30	
Fluoranthene	12/09/2010 00:00	2430	2030	84	8	55-115	30	
Fluorene	12/09/2010 00:00	1670	2030	81	11	50-110	30	
Hexachlorobenzene	12/09/2010 00:00	1680	2030	83	13	45-120	30	
Hexachlorobutadiene	12/09/2010 00:00	1530	2030	75	14	40-115	30	
Hexachlorocyclopentadiene	12/09/2010 00:00	286	2030	14	34	30-137	30	*FAIL*
Hexachloroethane	12/09/2010 00:00	1390	2030	68	16	35-110	30	
Indeno(1,2,3-cd)pyrene	12/09/2010 00:00	1410	2030	62	5	40-120	30	
Isophorone	12/09/2010 00:00	1640	2030	81	18	45-110	30	

CT LABORATORIES
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Sample Description

SOIL SEMIVOLATILE MATRIX SPIKE DUPLICATE RECOVERY

DLASS-002-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOIL SDG No.: 82399

Analytical Method: EPA 8270C Concentration Units: ug/kg

Analytical Run #: 72359 Sample No.: 877490 Parent Sample No.: 877489

Analytical Prep Batch #: 35631 Analytical Preparation Date/Time: 12/03/2010 15:00

Analyte	Analysis Date/Time		Spike Result	Spike Amount	%R	%RPD	Control Limits (%R)	Control Limits (%RPD)	
Naphthalene	12/09/2010	00:00	1630	2030	79	13	40-105	30	
Nitrobenzene	12/09/2010	00:00	1560	2030	77	10	40-115	30	
N-Nitrosodimethylamine	12/09/2010	00:00	1540	2030	76	21	20-115	30	
N-Nitroso-di-n-propylamine	12/09/2010	00:00	1510	2030	74	16	40-115	30	
N-Nitrosodiphenylamine & Diphn	12/09/2010	00:00	3110	4060	77	9	50-115	30	
N-Nitrosopyrrolidine	12/09/2010	00:00	1580	2030	78	15	59-110	30	
Pentachlorophenol	12/09/2010	00:00	521	2030	26	1	25-120	30	
Phenanthrene	12/09/2010	00:00	1990	2030	82	10	50-110	30	
Phenol	12/09/2010	00:00	1660	2030	82	15	40-100	30	
Pyrene	12/09/2010	00:00	2420	2030	91	10	45-125	30	
Pyridine	12/09/2010	00:00	0	2030	0	0	16-121	30	*FAIL*

RPD or Spike Recovery: 10 out of 75 outside QC limits

CT LABORATORIES
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Sample Description

SOIL SEMIVOLATILE MATRIX SPIKE DUPLICATE RECOVERY

DLASS-002-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOIL SDG No.: 82399

Analytical Method: EPA 8330 Concentration Units: mg/kg

Analytical Run #: 72414 Sample No.: 877982 Parent Sample No.: 877981

Analytical Prep Batch #: 35670 Analytical Preparation Date/Time: 12/06/2010 16:00

Analyte	Analysis Date/Time	Spike Result	Spike Amount	%R	%RPD	Control Limits (%R)	Control Limits (%RPD)
Nitroguanidine	12/17/2010 01:55	2.09	2.03	98	1	50-150	30

RPD or Spike Recovery: 0 out of 1 outside QC limits

CT LABORATORIES
delivering more than data from your environmental analyses

3D

Sample Description

SOIL SEMIVOLATILE MATRIX SPIKE DUPLICATE RECOVERY

DLASS-002-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOIL SDG No.: 82399

Analytical Method: EPA 8330B Concentration Units: mg/kg

Analytical Run #: 72415 Sample No.: 877977 Parent Sample No.: 877976

Analytical Prep Batch #: 35669 Analytical Preparation Date/Time: 12/06/2010 17:15

Analyte	Analysis Date/Time		Spike Result	Spike Amount	%R	%RPD	Control Limits (%R)	Control Limits (%RPD)
1,3,5-Trinitrobenzene	12/14/2010	18:13	1.93	2.01	96	3	72-121	15
1,3-Dinitrobenzene	12/14/2010	18:13	2.10	2.01	104	4	74-120	20
2,4,6-Trinitrotoluene	12/14/2010	18:13	2.12	2.01	105	5	56-135	28
2,4-Dinitrotoluene	12/14/2010	18:13	2.27	2.01	113	3	64-131	51
2,6-Dinitrotoluene	12/14/2010	18:13	1.97	2.01	98	0	63-131	18
2-Amino-4,6-dinitrotoluene	12/14/2010	18:13	2.00	2.01	100	6	71-118	18
2-Nitrotoluene	12/14/2010	18:13	2.26	2.01	112	3	78-113	13
3,5-Dinitroaniline	12/14/2010	18:13	2.01	2.01	100	5	1-153	30
3-Nitrotoluene	12/14/2010	18:13	2.10	2.01	104	8	74-115	15
4-Amino-2,6-dinitrotoluene	12/14/2010	18:13	1.61	2.01	80	4	72-123	20
4-Nitrotoluene	12/14/2010	18:13	1.92	2.01	96	7	80-110	15
HMX	12/14/2010	18:13	1.89	2.01	94	6	59-133	27
Nitrobenzene	12/14/2010	18:13	2.04	2.01	101	4	73-120	19
Nitroglycerin	12/14/2010	18:13	8.46	8.05	105	5	76-130	18
PETN	12/14/2010	18:13	8.49	8.05	105	0	74-123	16
RDX	12/14/2010	18:13	1.83	2.01	91	0	55-120	30
Tetryl	12/14/2010	18:13	1.77	2.01	88	1	30-155	38

RPD or Spike Recovery: 0 out of 17 outside QC limits

CT LABORATORIES
delivering more than data from your environmental analyses

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Sample Description

SOIL SEMIVOLATILE MATRIX SPIKE DUPLICATE RECOVERY

DLASS-014-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOIL SDG No.: 82399

Analytical Method: EPA 8270C Concentration Units: ug/kg

Analytical Run #: 72179 Sample No.: 874147 Parent Sample No.: 874146

Analytical Prep Batch #: 35517 Analytical Preparation Date/Time: 11/22/2010 10:00

Analyte	Analysis Date/Time		Spike Result	Spike Amount	%R	%RPD	Control Limits (%R)	Control Limits (%RPD)	
1,2,4-Trichlorobenzene	12/02/2010	20:26	1700	2070	82	3	45-110	30	
1,2-Dichlorobenzene	12/02/2010	20:26	1680	2070	80	2	45-95	30	
1,3-Dichlorobenzene	12/02/2010	20:26	1650	2070	80	3	40-100	30	
1,4-Dichlorobenzene	12/02/2010	20:26	1650	2070	80	2	35-105	30	
1-Methylnaphthalene	12/02/2010	20:26	1780	2070	85	3	50-150	30	
2,4,5-Trichlorophenol	12/02/2010	20:26	2010	2070	97	3	50-110	30	
2,4,6-Trichlorophenol	12/02/2010	20:26	1910	2070	92	4	45-110	30	
2,4-Dichlorophenol	12/02/2010	20:26	1890	2070	91	4	45-110	30	
2,4-Dimethylphenol	12/02/2010	20:26	1810	2070	87	7	30-105	30	
2,4-Dinitrophenol	12/02/2010	20:26	332	2070	16	11	15-130	30	
2,4-Dinitrotoluene	12/02/2010	20:26	1950	2070	94	3	50-115	30	
2,6-Dichlorophenol	12/02/2010	20:26	1850	2070	89	6	48-126	30	
2,6-Dinitrotoluene	12/02/2010	20:26	1900	2070	92	0	50-110	30	
2-Chloronaphthalene	12/02/2010	20:26	1810	2070	87	3	45-105	30	
2-Chlorophenol	12/02/2010	20:26	1750	2070	85	3	45-105	30	
2-Methylnaphthalene	12/02/2010	20:26	1820	2070	86	3	45-105	30	
2-Methylphenol	12/02/2010	20:26	1880	2070	91	2	40-105	30	
2-Nitroaniline	12/02/2010	20:26	1870	2070	90	2	45-120	30	
2-Nitrophenol	12/02/2010	20:26	1720	2070	83	3	40-110	30	
3 & 4-Methylphenol	12/02/2010	20:26	1940	2070	94	3	40-105	30	
3,3'-Dichlorobenzidine	12/02/2010	20:26	0	2070	0	0	10-130	30	*FAIL*
3-Nitroaniline	12/02/2010	20:26	306	2070	15	18	25-110	30	*FAIL*
4,6-Dinitro-2-methylphenol	12/02/2010	20:26	1090	2070	53	19	30-135	30	
4-Bromophenyl-phenyl ether	12/02/2010	20:26	1840	2070	89	0	45-115	30	
4-Chloro-3-methylphenol	12/02/2010	20:26	1940	2070	94	5	45-115	30	
4-Chloroaniline	12/02/2010	20:26	32.8	2070	2	6	10-95	30	*FAIL*
4-Chlorophenyl-phenyl ether	12/02/2010	20:26	1860	2070	90	3	45-110	30	
4-Nitroaniline	12/02/2010	20:26	686	2070	33	22	35-115	30	*FAIL*
4-Nitrophenol	12/02/2010	20:26	1970	2070	95	2	15-140	30	
Acenaphthene	12/02/2010	20:26	1850	2070	89	2	45-110	30	
Acenaphthylene	12/02/2010	20:26	1820	2070	87	2	45-105	30	
Acetophenone	12/02/2010	20:26	1710	2070	83	0	25-96	30	

CT LABORATORIES
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Sample Description

SOIL SEMIVOLATILE MATRIX SPIKE DUPLICATE RECOVERY

DLASS-014-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOIL SDG No.: 82399

Analytical Method: EPA 8270C Concentration Units: ug/kg

Analytical Run #: 72179 Sample No.: 874147 Parent Sample No.: 874146

Analytical Prep Batch #: 35517 Analytical Preparation Date/Time: 11/22/2010 10:00

Analyte	Analysis Date/Time		Spike Result	Spike Amount	%R	%RPD	Control Limits (%R)	Control Limits (%RPD)	
Aniline	12/02/2010	20:26	29.4	2070	1	5	14-110	30	*FAIL*
Anthracene	12/02/2010	20:26	1850	2070	88	3	55-105	30	
Azobenzene & 1,2-Diphenylhydra	12/02/2010	20:26	3700	4150	89	5	55-115	30	
Benzidine	12/02/2010	20:26	0	2070	0	0	1-161	30	*FAIL*
Benzo(a)anthracene	12/02/2010	20:26	2050	2070	90	5	50-110	30	
Benzo(a)pyrene	12/02/2010	20:26	2010	2070	88	7	50-110	30	
Benzo(b)fluoranthene	12/02/2010	20:26	2210	2070	92	12	45-115	30	
Benzo(g,h,i)perylene	12/02/2010	20:26	1640	2070	73	3	40-125	30	
Benzo(k)fluoranthene	12/02/2010	20:26	1950	2070	88	1	45-125	30	
Benzoic acid	12/02/2010	20:26	649	2070	-16	22	0-110	30	*FAIL*
Benzyl alcohol	12/02/2010	20:26	840	2070	41	28	20-125	30	
Bis(2-chloroethoxy)methane	12/02/2010	20:26	1720	2070	83	1	45-110	30	
Bis(2-chloroethyl)ether	12/02/2010	20:26	1680	2070	81	1	40-105	30	
Bis(2-chloroisopropyl)ether	12/02/2010	20:26	1700	2070	82	3	20-115	30	
Bis(2-ethylhexyl)phthalate	12/02/2010	20:26	2850	2070	94	2	45-125	30	
Butylbenzylphthalate	12/02/2010	20:26	1940	2070	93	3	50-125	30	
Carbazole	12/02/2010	20:26	1960	2070	93	6	45-115	30	
Chrysene	12/02/2010	20:26	2070	2070	90	5	55-110	30	
Dibenzo(a,h)anthracene	12/02/2010	20:26	1680	2070	79	2	40-125	30	
Dibenzofuran	12/02/2010	20:26	1870	2070	89	2	50-105	30	
Diethylphthalate	12/02/2010	20:26	1920	2070	90	2	50-115	30	
Dimethylphthalate	12/02/2010	20:26	1840	2070	89	3	50-110	30	
Di-n-butylphthalate	12/02/2010	20:26	2080	2070	95	4	55-110	30	
Di-n-octylphthalate	12/02/2010	20:26	1960	2070	95	3	40-130	30	
Fluoranthene	12/02/2010	20:26	2370	2070	91	3	55-115	30	
Fluorene	12/02/2010	20:26	1860	2070	89	2	50-110	30	
Hexachlorobenzene	12/02/2010	20:26	1810	2070	87	3	45-120	30	
Hexachlorobutadiene	12/02/2010	20:26	1680	2070	81	2	40-115	30	
Hexachlorocyclopentadiene	12/02/2010	20:26	817	2070	39	1	30-137	30	
Hexachloroethane	12/02/2010	20:26	1600	2070	77	2	35-110	30	
Indeno(1,2,3-cd)pyrene	12/02/2010	20:26	1760	2070	79	1	40-120	30	
Isophorone	12/02/2010	20:26	1700	2070	82	4	45-110	30	

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Sample Description

DLASS-014-0001-SO

SOIL SEMIVOLATILE MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOIL SDG No.: 82399

Analytical Method: EPA 8270C Concentration Units: ug/kg

Analytical Run #: 72179 Sample No.: 874147 Parent Sample No.: 874146

Analytical Prep Batch #: 35517 Analytical Preparation Date/Time: 11/22/2010 10:00

Analyte	Analysis Date/Time		Spike Result	Spike Amount	%R	%RPD	Control Limits (%R)	Control Limits (%RPD)	
Naphthalene	12/02/2010	20:26	1770	2070	84	2	40-105	30	
Nitrobenzene	12/02/2010	20:26	1760	2070	85	1	40-115	30	
N-Nitrosodimethylamine	12/02/2010	20:26	1430	2070	69	1	20-115	30	
N-Nitroso-di-n-propylamine	12/02/2010	20:26	1660	2070	80	3	40-115	30	
N-Nitrosodiphenylamine & Diphn	12/02/2010	20:26	3650	4150	88	4	50-115	30	
N-Nitrosopyrrolidine	12/02/2010	20:26	1740	2070	84	5	59-110	30	
Pentachlorophenol	12/02/2010	20:26	1610	2070	78	6	25-120	30	
Phenanthrene	12/02/2010	20:26	2120	2070	90	3	50-110	30	
Phenol	12/02/2010	20:26	1870	2070	89	1	40-100	30	
Pyrene	12/02/2010	20:26	2290	2070	93	5	45-125	30	
Pyridine	12/02/2010	20:26	0	2070	0	0	16-121	30	*FAIL*

RPD or Spike Recovery: 8 out of 75 outside QC limits

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Sample Description

SOIL SEMIVOLATILE MATRIX SPIKE DUPLICATE RECOVERY

DLASS-014-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOIL SDG No.: 82399

Analytical Method: EPA 8330 Concentration Units: mg/kg

Analytical Run #: 72412 Sample No.: 875963 Parent Sample No.: 875962

Analytical Prep Batch #: 35573 Analytical Preparation Date/Time: 12/02/2010 12:00

Analyte	Analysis Date/Time	Spike Result	Spike Amount	%R	%RPD	Control Limits (%R)	Control Limits (%RPD)
Nitroguanidine	12/16/2010 22:49	2.16	2.00	93	2	50-150	30

RPD or Spike Recovery: 0 out of 1 outside QC limits

CT LABORATORIES
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Sample Description

SOIL SEMIVOLATILE MATRIX SPIKE DUPLICATE RECOVERY

DLASS-014-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOIL SDG No.: 82399

Analytical Method: EPA 8330B Concentration Units: mg/kg

Analytical Run #: 72413 Sample No.: 875954 Parent Sample No.: 875953

Analytical Prep Batch #: 35571 Analytical Preparation Date/Time: 12/02/2010 13:30

Analyte	Analysis Date/Time		Spike Result	Spike Amount	%R	%RPD	Control Limits (%R)	Control Limits (%RPD)
1,3,5-Trinitrobenzene	12/14/2010	11:30	2.05	1.98	104	4	72-121	15
1,3-Dinitrobenzene	12/14/2010	11:30	2.11	1.98	107	3	74-120	20
2,4,6-Trinitrotoluene	12/14/2010	11:30	2.32	1.98	117	9	56-135	28
2,4-Dinitrotoluene	12/14/2010	11:30	2.22	1.98	112	4	64-131	51
2,6-Dinitrotoluene	12/14/2010	11:30	1.99	1.98	101	7	63-131	18
2-Amino-4,6-dinitrotoluene	12/14/2010	11:30	2.01	1.98	102	3	71-118	18
2-Nitrotoluene	12/14/2010	11:30	2.11	1.98	107	6	78-113	13
3,5-Dinitroaniline	12/14/2010	11:30	2.01	1.98	102	3	1-153	30
3-Nitrotoluene	12/14/2010	11:30	2.09	1.98	106	4	74-115	15
4-Amino-2,6-dinitrotoluene	12/14/2010	11:30	1.58	1.98	80	9	72-123	20
4-Nitrotoluene	12/14/2010	11:30	2.12	1.98	107	6	80-110	15
HMX	12/14/2010	11:30	1.87	1.98	94	3	59-133	27
Nitrobenzene	12/14/2010	11:30	2.05	1.98	104	1	73-120	19
Nitroglycerin	12/14/2010	11:30	8.32	7.93	105	6	76-130	18
PETN	12/14/2010	11:30	8.56	7.93	108	4	74-123	16
RDX	12/14/2010	11:30	1.85	1.98	93	1	55-120	30
Tetryl	12/14/2010	11:30	1.63	1.98	82	2	30-155	38

RPD or Spike Recovery: 0 out of 17 outside QC limits

CT LABORATORIES
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Sample Description

LCS

SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Sample No.: 874149 SDG No.: 82399

Analytical Method: EPA 8270C Concentration Units: ug/kg

Analytical Run #: 72179 Sample No.: 874149 Parent Sample No.: 0

Analytical Prep Batch #: 35517 Analytical Preparation Date/Time: 11/22/2010 10:00

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
1,2,4-Trichlorobenzene	12/02/2010	19:25	45-110	1580		2000	79
1,2-Dichlorobenzene	12/02/2010	19:25	45-95	1560		2000	78
1,3-Dichlorobenzene	12/02/2010	19:25	40-100	1510		2000	76
1,4-Dichlorobenzene	12/02/2010	19:25	35-105	1550		2000	78
1-Methylnaphthalene	12/02/2010	19:25	50-150	1640		2000	82
2,4,5-Trichlorophenol	12/02/2010	19:25	50-110	1750		2000	88
2,4,6-Trichlorophenol	12/02/2010	19:25	45-110	1710		2000	86
2,4-Dichlorophenol	12/02/2010	19:25	45-110	1700		2000	85
2,4-Dimethylphenol	12/02/2010	19:25	30-105	1630		2000	82
2,4-Dinitrophenol	12/02/2010	19:25	15-130	1020		2000	51
2,4-Dinitrotoluene	12/02/2010	19:25	50-115	1840		2000	92
2,6-Dichlorophenol	12/02/2010	19:25	48-126	1650		2000	82
2,6-Dinitrotoluene	12/02/2010	19:25	50-110	1800		2000	90
2-Chloronaphthalene	12/02/2010	19:25	45-105	1710		2000	86
2-Chlorophenol	12/02/2010	19:25	45-105	1600		2000	80
2-Methylnaphthalene	12/02/2010	19:25	45-105	1680		2000	84
2-Methylphenol	12/02/2010	19:25	40-105	1690		2000	84
2-Nitroaniline	12/02/2010	19:25	45-120	1830		2000	92
2-Nitrophenol	12/02/2010	19:25	40-110	1650		2000	82
3 & 4-Methylphenol	12/02/2010	19:25	40-105	1720		2000	86
3,3'-Dichlorobenzidine	12/02/2010	19:25	10-130	1590		2000	80
3-Nitroaniline	12/02/2010	19:25	25-110	1010		2000	50
4,6-Dinitro-2-methylphenol	12/02/2010	19:25	30-135	1570		2000	78
4-Bromophenyl-phenyl ether	12/02/2010	19:25	45-115	1820		2000	91
4-Chloro-3-methylphenol	12/02/2010	19:25	45-115	1740		2000	87
4-Chloroaniline	12/02/2010	19:25	10-95	558		2000	28
4-Chlorophenyl-phenyl ether	12/02/2010	19:25	45-110	1710		2000	86
4-Nitroaniline	12/02/2010	19:25	35-115	1870		2000	94
4-Nitrophenol	12/02/2010	19:25	15-140	1720		2000	86

CT LABORATORIES
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Sample Description

LCS

SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Sample No.: 874149 SDG No.: 82399

Analytical Method: EPA 8270C Concentration Units: ug/kg

Analytical Run #: 72179 Sample No.: 874149 Parent Sample No.: 0

Analytical Prep Batch #: 35517 Analytical Preparation Date/Time: 11/22/2010 10:00

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R	
Acenaphthene	12/02/2010	19:25	45-110	1730		2000	86	
Acenaphthylene	12/02/2010	19:25	45-105	1730		2000	86	
Acetophenone	12/02/2010	19:25	48-126	1600		2000	80	
Aniline	12/02/2010	19:25	14-110	655		2000	33	
Anthracene	12/02/2010	19:25	55-105	1750		2000	88	
Azobenzene & 1,2-Diphenylhydra	12/02/2010	19:25	55-115	3420		4000	86	
Benzidine	12/02/2010	19:25	1-161	0		2000	0	*FAIL*
Benzo(a)anthracene	12/02/2010	19:25	50-110	1730		2000	86	
Benzo(a)pyrene	12/02/2010	19:25	50-110	1720		2000	86	
Benzo(b)fluoranthene	12/02/2010	19:25	45-115	1660		2000	83	
Benzo(g,h,i)perylene	12/02/2010	19:25	40-125	1800		2000	90	
Benzo(k)fluoranthene	12/02/2010	19:25	45-125	1730		2000	86	
Benzoic acid	12/02/2010	19:25	0-110	610		2000	30	
Benzyl alcohol	12/02/2010	19:25	20-125	1600		2000	80	
Bis(2-chloroethoxy)methane	12/02/2010	19:25	45-110	1670		2000	84	
Bis(2-chloroethyl)ether	12/02/2010	19:25	40-105	1630		2000	82	
Bis(2-chloroisopropyl)ether	12/02/2010	19:25	20-115	1600		2000	80	
Bis(2-ethylhexyl)phthalate	12/02/2010	19:25	45-125	1770		2000	88	
Butylbenzylphthalate	12/02/2010	19:25	50-125	1770		2000	88	
Carbazole	12/02/2010	19:25	45-115	1820		2000	91	
Chrysene	12/02/2010	19:25	55-110	1710		2000	86	
Dibenzo(a,h)anthracene	12/02/2010	19:25	40-125	1820		2000	91	
Dibenzofuran	12/02/2010	19:25	50-105	1740		2000	87	
Diethylphthalate	12/02/2010	19:25	50-115	1790		2000	90	
Dimethylphthalate	12/02/2010	19:25	50-110	1730		2000	86	
Di-n-butylphthalate	12/02/2010	19:25	55-110	1880		2000	94	
Di-n-octylphthalate	12/02/2010	19:25	40-130	1800		2000	90	
Fluoranthene	12/02/2010	19:25	55-115	1720		2000	86	
Fluorene	12/02/2010	19:25	50-110	1690		2000	84	

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Sample Description

LCS

SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Sample No.: 874149 SDG No.: 82399

Analytical Method: EPA 8270C Concentration Units: ug/kg

Analytical Run #: 72179 Sample No.: 874149 Parent Sample No.: 0

Analytical Prep Batch #: 35517 Analytical Preparation Date/Time: 11/22/2010 10:00

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R	
Hexachlorobenzene	12/02/2010	19:25	45-120	1650		2000	82	
Hexachlorobutadiene	12/02/2010	19:25	40-115	1530		2000	76	
Hexachlorocyclopentadiene	12/02/2010	19:25	30-137	1540		2000	77	
Hexachloroethane	12/02/2010	19:25	35-110	1510		2000	76	
Indeno(1,2,3-cd)pyrene	12/02/2010	19:25	40-120	1790		2000	90	
Isophorone	12/02/2010	19:25	45-110	1580		2000	79	
Naphthalene	12/02/2010	19:25	40-105	1660		2000	83	
Nitrobenzene	12/02/2010	19:25	40-115	1660		2000	83	
N-Nitrosodimethylamine	12/02/2010	19:25	20-115	1130		2000	56	
N-Nitroso-di-n-propylamine	12/02/2010	19:25	40-115	1610		2000	80	
N-Nitrosodiphenylamine & Diphn	12/02/2010	19:25	50-115	3500		4000	88	
N-Nitrosopyrrolidine	12/02/2010	19:25	59-110	1590		2000	80	
Pentachlorophenol	12/02/2010	19:25	25-120	799		2000	40	
Phenanthrene	12/02/2010	19:25	50-110	1730		2000	86	
Phenol	12/02/2010	19:25	40-100	1660		2000	83	
Pyrene	12/02/2010	19:25	45-125	1740		2000	87	
Pyridine	12/02/2010	19:25	16-121	146		2000	7	*FAIL*

Spike Recovery: 2 out of 75 outside limits

CT LABORATORIES
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Sample Description

SOIL SEMIVOLATILE LAB CONTROL SAMPLE

LCS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Sample No.: 875952 SDG No.: 82399

Analytical Method: EPA 8330B Concentration Units: mg/kg

Analytical Run #: 72413 Sample No.: 875952 Parent Sample No.: 0

Analytical Prep Batch #: 35571 Analytical Preparation Date/Time: 12/02/2010 13:30

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
1,3,5-Trinitrobenzene	12/14/2010	10:21	78-121	2.04		1.99	103
1,3-Dinitrobenzene	12/14/2010	10:21	83-115	2.13		1.99	107
2,4,6-Trinitrotoluene	12/14/2010	10:21	69-129	1.85		1.99	93
2,4-Dinitrotoluene	12/14/2010	10:21	80-118	2.22		1.99	112
2,6-Dinitrotoluene	12/14/2010	10:21	74-122	1.97		1.99	99
2-Amino-4,6-dinitrotoluene	12/14/2010	10:21	75-118	2.05		1.99	103
2-Nitrotoluene	12/14/2010	10:21	77-118	2.09		1.99	105
3,5-Dinitroaniline	12/14/2010	10:21	10-165	2.26		1.99	114
3-Nitrotoluene	12/14/2010	10:21	75-118	2.11		1.99	106
4-Amino-2,6-dinitrotoluene	12/14/2010	10:21	75-122	2.13		1.99	107
4-Nitrotoluene	12/14/2010	10:21	76-118	2.09		1.99	105
HMX	12/14/2010	10:21	71-120	1.93		1.99	97
Nitrobenzene	12/14/2010	10:21	82-116	2.15		1.99	108
Nitroglycerin	12/14/2010	10:21	77-123	3.88		3.97	98
PETN	12/14/2010	10:21	74-123	3.73		3.97	94
RDX	12/14/2010	10:21	63-125	1.87		1.99	94
Tetryl	12/14/2010	10:21	10-165	1.70		1.99	85

Spike Recovery: 0 out of 17 outside limits

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Sample Description

LCS

SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Sample No.: 875960 SDG No.: 82399

Analytical Method: EPA 8330 Concentration Units: mg/kg

Analytical Run #: 72412 Sample No.: 875960 Parent Sample No.: 0

Analytical Prep Batch #: 35573 Analytical Preparation Date/Time: 12/02/2010 12:00

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
Nitroguanidine	12/16/2010 22:06	50-150	1.95		1.95	100

Spike Recovery: 0 out of 1 outside limits

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Sample Description

SOIL SEMIVOLATILE LAB CONTROL SAMPLE

LCS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Sample No.: 877492 SDG No.: 82399

Analytical Method: EPA 8270C Concentration Units: ug/kg

Analytical Run #: 72359 Sample No.: 877492 Parent Sample No.: 0

Analytical Prep Batch #: 35631 Analytical Preparation Date/Time: 12/03/2010 15:00

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
1,2,4-Trichlorobenzene	12/08/2010	20:38	45-110	1230		2000	62
1,2-Dichlorobenzene	12/08/2010	20:38	45-95	1190		2000	60
1,3-Dichlorobenzene	12/08/2010	20:38	40-100	1150		2000	58
1,4-Dichlorobenzene	12/08/2010	20:38	35-105	1160		2000	58
1-Methylnaphthalene	12/08/2010	20:38	50-150	1290		2000	64
2,4,5-Trichlorophenol	12/08/2010	20:38	50-110	1360		2000	68
2,4,6-Trichlorophenol	12/08/2010	20:38	45-110	1330		2000	66
2,4-Dichlorophenol	12/08/2010	20:38	45-110	1340		2000	67
2,4-Dimethylphenol	12/08/2010	20:38	30-105	1190		2000	60
2,4-Dinitrophenol	12/08/2010	20:38	15-130	467		2000	23
2,4-Dinitrotoluene	12/08/2010	20:38	50-115	1480		2000	74
2,6-Dichlorophenol	12/08/2010	20:38	48-126	1330		2000	66
2,6-Dinitrotoluene	12/08/2010	20:38	50-110	1410		2000	70
2-Chloronaphthalene	12/08/2010	20:38	45-105	1360		2000	68
2-Chlorophenol	12/08/2010	20:38	45-105	1300		2000	65
2-Methylnaphthalene	12/08/2010	20:38	45-105	1280		2000	64
2-Methylphenol	12/08/2010	20:38	40-105	1340		2000	67
2-Nitroaniline	12/08/2010	20:38	45-120	1480		2000	74
2-Nitrophenol	12/08/2010	20:38	40-110	1260		2000	63
3 & 4-Methylphenol	12/08/2010	20:38	40-105	1400		2000	70
3,3'-Dichlorobenzidine	12/08/2010	20:38	10-130	1380		2000	69
3-Nitroaniline	12/08/2010	20:38	25-110	995		2000	50
4,6-Dinitro-2-methylphenol	12/08/2010	20:38	30-135	974		2000	49
4-Bromophenyl-phenyl ether	12/08/2010	20:38	45-115	1440		2000	72
4-Chloro-3-methylphenol	12/08/2010	20:38	45-115	1350		2000	68
4-Chloroaniline	12/08/2010	20:38	10-95	630		2000	32
4-Chlorophenyl-phenyl ether	12/08/2010	20:38	45-110	1350		2000	68
4-Nitroaniline	12/08/2010	20:38	35-115	1510		2000	76
4-Nitrophenol	12/08/2010	20:38	15-140	1300		2000	65

CT LABORATORIES
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3D

Sample Description

LCS

SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Sample No.: 877492 SDG No.: 82399

Analytical Method: EPA 8270C Concentration Units: ug/kg

Analytical Run #: 72359 Sample No.: 877492 Parent Sample No.: 0

Analytical Prep Batch #: 35631 Analytical Preparation Date/Time: 12/03/2010 15:00

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
Acenaphthene	12/08/2010	20:38	45-110	1360		2000	68
Acenaphthylene	12/08/2010	20:38	45-105	1370		2000	68
Acetophenone	12/08/2010	20:38	48-126	1320		2000	66
Aniline	12/08/2010	20:38	14-110	745		2000	37
Anthracene	12/08/2010	20:38	55-105	1420		2000	71
Azobenzene & 1,2-Diphenylhydra	12/08/2010	20:38	55-115	2810		4000	70
Benzidine	12/08/2010	20:38	1-161	294		2000	15
Benzo(a)anthracene	12/08/2010	20:38	50-110	1420		2000	71
Benzo(a)pyrene	12/08/2010	20:38	50-110	1370		2000	68
Benzo(b)fluoranthene	12/08/2010	20:38	45-115	1310		2000	66
Benzo(g,h,i)perylene	12/08/2010	20:38	40-125	1360		2000	68
Benzo(k)fluoranthene	12/08/2010	20:38	45-125	1470		2000	74
Benzoic acid	12/08/2010	20:38	0-110	348		2000	17
Benzyl alcohol	12/08/2010	20:38	20-125	1250		2000	62
Bis(2-chloroethoxy)methane	12/08/2010	20:38	45-110	1350		2000	68
Bis(2-chloroethyl)ether	12/08/2010	20:38	40-105	1290		2000	64
Bis(2-chloroisopropyl)ether	12/08/2010	20:38	20-115	1260		2000	63
Bis(2-ethylhexyl)phthalate	12/08/2010	20:38	45-125	1490		2000	74
Butylbenzylphthalate	12/08/2010	20:38	50-125	1490		2000	74
Carbazole	12/08/2010	20:38	45-115	1500		2000	75
Chrysene	12/08/2010	20:38	55-110	1410		2000	70
Dibenzo(a,h)anthracene	12/08/2010	20:38	40-125	1380		2000	69
Dibenzofuran	12/08/2010	20:38	50-105	1360		2000	68
Diethylphthalate	12/08/2010	20:38	50-115	1410		2000	70
Dimethylphthalate	12/08/2010	20:38	50-110	1350		2000	68
Di-n-butylphthalate	12/08/2010	20:38	55-110	1530		2000	76
Di-n-octylphthalate	12/08/2010	20:38	40-130	1450		2000	72
Fluoranthene	12/08/2010	20:38	55-115	1420		2000	71
Fluorene	12/08/2010	20:38	50-110	1360		2000	68

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3D

Sample Description

LCS

SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Sample No.: 877492 SDG No.: 82399

Analytical Method: EPA 8270C Concentration Units: ug/kg

Analytical Run #: 72359 Sample No.: 877492 Parent Sample No.: 0

Analytical Prep Batch #: 35631 Analytical Preparation Date/Time: 12/03/2010 15:00

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R	
Hexachlorobenzene	12/08/2010	20:38	45-120	1340		2000	67	
Hexachlorobutadiene	12/08/2010	20:38	40-115	1140		2000	57	
Hexachlorocyclopentadiene	12/08/2010	20:38	30-137	1090		2000	54	
Hexachloroethane	12/08/2010	20:38	35-110	1160		2000	58	
Indeno(1,2,3-cd)pyrene	12/08/2010	20:38	40-120	1390		2000	70	
Isophorone	12/08/2010	20:38	45-110	1270		2000	64	
Naphthalene	12/08/2010	20:38	40-105	1300		2000	65	
Nitrobenzene	12/08/2010	20:38	40-115	1300		2000	65	
N-Nitrosodimethylamine	12/08/2010	20:38	20-115	1110		2000	56	
N-Nitroso-di-n-propylamine	12/08/2010	20:38	40-115	1320		2000	66	
N-Nitrosodiphenylamine & Diphn	12/08/2010	20:38	50-115	2880		4000	72	
N-Nitrosopyrrolidine	12/08/2010	20:38	59-110	1360		2000	68	
Pentachlorophenol	12/08/2010	20:38	25-120	949		2000	47	
Phenanthrene	12/08/2010	20:38	50-110	1400		2000	70	
Phenol	12/08/2010	20:38	40-100	1360		2000	68	
Pyrene	12/08/2010	20:38	45-125	1490		2000	74	
Pyridine	12/08/2010	20:38	16-121	34.8		2000	2	*FAIL*

Spike Recovery: 1 out of 75 outside limits

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3D

Sample Description

LCS

SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Sample No.: 877975 SDG No.: 82399

Analytical Method: EPA 8330B Concentration Units: mg/kg

Analytical Run #: 72415 Sample No.: 877975 Parent Sample No.: 0

Analytical Prep Batch #: 35669 Analytical Preparation Date/Time: 12/06/2010 17:15

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
1,3,5-Trinitrobenzene	12/14/2010	15:45	78-121	2.10		2.01	104
1,3-Dinitrobenzene	12/14/2010	15:45	83-115	2.26		2.01	112
2,4,6-Trinitrotoluene	12/14/2010	15:45	69-129	2.25		2.01	112
2,4-Dinitrotoluene	12/14/2010	15:45	80-118	1.97		2.01	98
2,6-Dinitrotoluene	12/14/2010	15:45	74-122	2.35		2.01	117
2-Amino-4,6-dinitrotoluene	12/14/2010	15:45	75-118	2.12		2.01	105
2-Nitrotoluene	12/14/2010	15:45	77-118	2.03		2.01	101
3,5-Dinitroaniline	12/14/2010	15:45	10-165	2.32		2.01	115
3-Nitrotoluene	12/14/2010	15:45	75-118	2.27		2.01	113
4-Amino-2,6-dinitrotoluene	12/14/2010	15:45	75-122	1.77		2.01	88
4-Nitrotoluene	12/14/2010	15:45	76-118	2.04		2.01	101
HMX	12/14/2010	15:45	71-120	2.08		2.01	103
Nitrobenzene	12/14/2010	15:45	82-116	2.28		2.01	113
Nitroglycerin	12/14/2010	15:45	77-123	4.27		4.02	106
PETN	12/14/2010	15:45	74-123	4.48		4.02	111
RDX	12/14/2010	15:45	63-125	1.93		2.01	96
Tetryl	12/14/2010	15:45	10-165	1.91		2.01	95

Spike Recovery: 0 out of 17 outside limits

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3D

Sample Description

LCS

SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Sample No.: 877979 SDG No.: 82399

Analytical Method: EPA 8330 Concentration Units: mg/kg

Analytical Run #: 72414 Sample No.: 877979 Parent Sample No.: 0

Analytical Prep Batch #: 35670 Analytical Preparation Date/Time: 12/06/2010 16:00

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
Nitroguanidine	12/17/2010 01:12	50-150	2.05		2.02	101

Spike Recovery: 0 out of 1 outside limits

CT LABORATORIES
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4B

SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Sample ID:	874148	SDG No.:	82399
Matrix:	SOLID	Date Extracted:	11/22/2010
Date Analyzed:	12/02/2010	Time Analyzed:	19:05
Analytical Method:	EPA 8270C	Extraction Method:	SW3545
Analytical Run #:	72179	Extraction Batch #:	35517

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

SEQUENCE	SAMPLE DESCRIPTION	SAMPLE ID	DATE/TIME ANALYZED
1	MBS	874148	12/02/2010 19:05
2	LCSS	874149	12/02/2010 19:25
3	DLASS-014-0001-SO	870201	12/02/2010 19:45
4	DLASS-014-0001-SOMSS	874146	12/02/2010 20:06
5	DLASS-014-0001-SOMSDS	874147	12/02/2010 20:26
6	DLASS-014-0003-SO	870203	12/02/2010 20:46

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Sample ID:	875951	SDG No.:	82399
Matrix:	SOLID	Date Extracted:	12/02/2010
Date Analyzed:	12/14/2010	Time Analyzed:	09:58
Analytical Method:	EPA 8330B	Extraction Method:	SW8330B
Analytical Run #:	72413	Extraction Batch #:	35571

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

SEQUENCE	SAMPLE DESCRIPTION	SAMPLE ID	DATE/TIME ANALYZED
1	MBS	875951	12/14/2010 09:58
2	LCSS	875952	12/14/2010 10:21
3	DLASS-014-0001-SO	870201	12/14/2010 10:44
4	DLASS-014-0001-SOMSS	875953	12/14/2010 11:07
5	DLASS-014-0001-SOMSDS	875954	12/14/2010 11:30
6	DLASS-014-0003-SO	870203	12/14/2010 12:40

CT LABORATORIES
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4B

SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Sample ID:	875959	SDG No.:	82399
Matrix:	SOLID	Date Extracted:	12/02/2010
Date Analyzed:	12/16/2010	Time Analyzed:	21:52
Analytical Method:	EPA 8330	Extraction Method:	SW8330
Analytical Run #:	72412	Extraction Batch #:	35573

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

SEQUENCE	SAMPLE DESCRIPTION	SAMPLE ID	DATE/TIME ANALYZED
1	MBS	875959	12/16/2010 21:52
2	LCSS	875960	12/16/2010 22:06
3	DLASS-014-0001-SO	870201	12/16/2010 22:20
4	DLASS-014-0001-SOMSS	875962	12/16/2010 22:35
5	DLASS-014-0001-SOMSDS	875963	12/16/2010 22:49
6	DLASS-014-0003-SO	870203	12/16/2010 23:32

CT LABORATORIES
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4B

SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Sample ID:	877491	SDG No.:	82399
Matrix:	SOLID	Date Extracted:	12/03/2010
Date Analyzed:	12/08/2010	Time Analyzed:	20:18
Analytical Method:	EPA 8270C	Extraction Method:	SW3545
Analytical Run #:	72359	Extraction Batch #:	35631

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

SEQUENCE	SAMPLE DESCRIPTION	SAMPLE ID	DATE/TIME ANALYZED
1	MBS	877491	12/08/2010 20:18
2	LCSS	877492	12/08/2010 20:38
3	DLASS-002-0001-SO	870189	12/08/2010 20:59
4	DLASS-022-0001-SO	870194	12/08/2010 21:59
5	DLASS-022-0003-SO	870195	12/08/2010 22:19
6	DLASS-002-0003-SO	870212	12/08/2010 23:20
7	DLASS-002-0001-SOMSS	877489	12/08/2010 23:40
8	DLASS-002-0001-SOMSDS	877490	12/09/2010 00:00

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Sample ID:	877974	SDG No.:	82399
Matrix:	SOLID	Date Extracted:	12/06/2010
Date Analyzed:	12/14/2010	Time Analyzed:	15:22
Analytical Method:	EPA 8330B	Extraction Method:	SW8330B
Analytical Run #:	72415	Extraction Batch #:	35669

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

SEQUENCE	SAMPLE DESCRIPTION	SAMPLE ID	DATE/TIME ANALYZED
1	MBS	877974	12/14/2010 15:22
2	LCSS	877975	12/14/2010 15:45
3	DLASS-002-0001-SO	870189	12/14/2010 17:27
4	DLASS-002-0001-SOMSS	877976	12/14/2010 17:50
5	DLASS-002-0001-SOMSDS	877977	12/14/2010 18:13
6	DLASS-022-0001-SO	870194	12/14/2010 19:23
7	DLASS-022-0003-SO	870195	12/14/2010 20:09
8	DLASS-002-0003-SO	870212	12/14/2010 20:32

CT LABORATORIES
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4B

SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Sample ID:	877978	SDG No.:	82399
Matrix:	SOLID	Date Extracted:	12/06/2010
Date Analyzed:	12/17/2010	Time Analyzed:	00:58
Analytical Method:	EPA 8330	Extraction Method:	SW8330
Analytical Run #:	72414	Extraction Batch #:	35670

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

SEQUENCE	SAMPLE DESCRIPTION	SAMPLE ID	DATE/TIME ANALYZED
1	MBS	877978	12/17/2010 00:58
2	LCSS	877979	12/17/2010 01:12
3	DLASS-002-0001-SO	870189	12/17/2010 01:26
4	DLASS-002-0001-SOMSS	877981	12/17/2010 01:41
5	DLASS-002-0001-SOMSDS	877982	12/17/2010 01:55
6	DLASS-022-0001-SO	870194	12/17/2010 02:38
7	DLASS-022-0003-SO	870195	12/17/2010 03:06
8	DLASS-002-0003-SO	870212	12/17/2010 03:21

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE - RAVENNA

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 82399

Lab File ID: 2DFTPP51.D DFTPP Injection Date: 12/02/10

Instrument ID: SVMS2 DFTPP Injection Time: 11:11

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	41.5
68	Less than 2.0% of mass 69	1.1 (1.1)1
69	Mass 69 relative abundance	27.3
70	Less than 2.0% of mass 69	0.6 (0.6)1
127	40.0 - 60.0% of mass 198	45.8
197	Less than 1.0% of mass 198	0.1
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 30.0% of mass 198	21.3
365	Greater than 1.0% of mass 198	1.6
441	Present, but less than mass 443	79.3
442	40.0 - 100.0% of mass 198	91.9
443	17.0 - 23.0% of mass 442	20.6 (20.6)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	Inst Blank	IB	2IB01	12/02/10	11:26
02	ICAL7 50 ug/mL	ICAL7	2ICAL7.D	12/02/10	11:47
03	ICAL6 40 ug/mL	ICAL6	2ICAL6.D	12/02/10	12:07
04	ICAL5 30 ug/mL	ICAL5	2ICAL5.D	12/02/10	12:28
05	ICAL4 20 ug/mL	ICAL4	2ICAL4.D	12/02/10	12:48
06	ICAL3 10 ug/mL	ICAL3	2ICAL3.D	12/02/10	13:08
07	ICAL2 5 ug/mL	ICAL2	2ICAL2.D	12/02/10	13:29
08	ICAL1 1 ug/mL	ICAL1	2ICAL1.D	12/02/10	13:49
09	ICV1 20 ug/mL	ICV1	2ICV1.D	12/02/10	14:10
10	ICV2 40 ug/ml	ICV2	2ICV2.D	12/02/10	14:30
11	Method Blank	874418	2MBS01.D	12/02/10	19:05
12	LCS	874149	2LCSS01.D	12/02/10	19:25
13	DLASS-014-0001-SO	870201	870201.D	12/02/10	19:45
14	DLASS-014-0001-SOMS	874146	870201MS.D	12/02/10	20:06
15	DLASS-014-0001-SOMSD	874147	870201SD.D	12/02/10	20:26
16	DLASS-014-0003-SO	870203	870203.D	12/02/10	20:46
17	DLASS-014-0001-SOMS	874146	870201SR.D	12/02/10	22:26
18	DLASS-014-0001-SOMSD	874147	870201DR.D	12/02/10	22:47
19					
20					
21					

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE - RAVENNA

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 82399

Lab File ID: 2DFTPP53.D DFTPP Injection Date: 12/05/10

Instrument ID: SVMS2 DFTPP Injection Time: 12:45

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	41.9
68	Less than 2.0% of mass 69	1.4 (1.4)1
69	Mass 69 relative abundance	27.5
70	Less than 2.0% of mass 69	0.5 (0.5)1
127	40.0 - 60.0% of mass 198	46.3
197	Less than 1.0% of mass 198	0.1
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.1
275	10.0 - 30.0% of mass 198	20.4
365	Greater than 1.0% of mass 198	1.9
441	Present, but less than mass 443	82.7
442	40.0 - 100.0% of mass 198	91.6
443	17.0 - 23.0% of mass 442	19.3 (19.3)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CCV	CCV	2CCV47.D	12/05/10	13:01
02	LCS	874149	2LCSS02R.D	12/05/10	20:01
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE - RAVENNA

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 82399

Lab File ID: 2DFTPP55.D DFTPP Injection Date: 12/08/10

Instrument ID: SVMS2 DFTPP Injection Time: 12:59

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	44.1
68	Less than 2.0% of mass 69	1.3 (1.3)1
69	Mass 69 relative abundance	29.7
70	Less than 2.0% of mass 69	0.4 (0.4)1
127	40.0 - 60.0% of mass 198	47.3
197	Less than 1.0% of mass 198	0.1
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	20.9
365	Greater than 1.0% of mass 198	1.8
441	Present, but less than mass 443	86.5
442	40.0 - 100.0% of mass 198	95.9
443	17.0 - 23.0% of mass 442	18.5 (18.5)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CCV	CCV	2CCV51.D	12/08/10	13:15
02	METHOD BLANK	877491	2MBS02.D	12/08/10	20:18
03	LCS	877492	2LCSS02.D	12/08/10	20:38
04	DLASS-002-0001-SO	870189	870189.D	12/08/10	20:59
05	DLASS-022-0001-SO	870194	870194.D	12/08/10	21:59
06	DLASS-022-0003-SO	870195	870195.D	12/08/10	22:19
07	DLASS-002-0003-SO	870212	870212.D	12/08/10	23:20
08	DLASS-002-0001-SOMS	877489	870189MS.D	12/08/10	23:40
09	DLASS-002-0001-SOMSD	877490	870189SD.D	12/09/10	00:00
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE - RAVENNA

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 82399

Lab File ID: 2DFTPP56.D DFTPP Injection Date: 12/09/10

Instrument ID: SVMS2 DFTPP Injection Time: 12:47

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	40.9
68	Less than 2.0% of mass 69	1.5 (1.5)1
69	Mass 69 relative abundance	26.9
70	Less than 2.0% of mass 69	0.3 (0.3)1
127	40.0 - 60.0% of mass 198	45.9
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	21.3
365	Greater than 1.0% of mass 198	1.7
441	Present, but less than mass 443	81.7
442	40.0 - 100.0% of mass 198	99.5
443	17.0 - 23.0% of mass 442	19.0 (19.0)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CCV	CCV	2CCV53.D	12/09/10	13:02
02	LCS	877492	2LCSS02R.D	12/09/10	19:23
03	DLASS-002-0001-SOMS	877489	870189SS.D	12/09/10	20:25
04	DLASS-002-0001-SOMSD	877490	870189DR.D	12/09/10	20:46
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Contract :
Project : Site : Location : Group : 82399
Lab File ID (Standard): 2ICAL4.D Date Analyzed : 2 Dec 2010
Instrument ID : SVMS2 Time Analyzed : 12:48 pm
GC Column : ID : (mm) Heated Purge (Y:N) :

	IS1 (DCB)		IS2 (NPT)		IS3 (ANT)	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	480653	4.43	2199649	6.07	1168924	7.58
UPPER LIMIT	961306	4.93	4399298	6.57	2337848	8.08
LOWER LIMIT	240327	3.93	1099825	5.57	584462	7.08
File ID Sample						
2ICV1 ICV 1 20u	514539	4.43	2311544	6.07	1186636	7.57
2LCSS01 72179,LCS	569854	4.43	2603938	6.07	1310497	7.58
2MBS01 72179,MBS	502657	4.43	2283741	6.07	1179017	7.58
870201 72179,870	509262	4.43	2305009	6.06	1235818	7.57
870201DR 72179,MSD	530104	4.43	2490338	6.07	1299820	7.58
870201MS 72179,MSS	539949	4.43	2505027	6.07	1285088	7.58
870201SD 72179,MSD	534794	4.43	2454441	6.07	1277919	7.58
870201SR 72179,MSS	561411	4.43	2584333	6.07	1324710	7.57
870203 72179,870	529211	4.43	2445901	6.07	1292731	7.58

IS1 (DCB) = 14Diclbenzd4
IS2 (NPT) = Naphthalened8
IS3 (ANT) = Acenaphthened10

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk
* Values outside of contract required QC limits

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Contract :
Project : Site : Location : Group : 82399
Lab File ID (Standard): 2ICAL4.D Date Analyzed : 2 Dec 2010
Instrument ID : SVMS2 Time Analyzed : 12:48 pm
GC Column : ID : (mm) Heated Purge (Y:N) :

	IS4 (PHN)		IS5 (CRY)		IS6 (PRY)	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	1716493	8.47	1597155	9.94	1415096	10.90
UPPER LIMIT	3432986	8.97	3194310	10.44	2830192	11.40
LOWER LIMIT	858247	7.97	798578	9.44	707548	10.40
File ID Sample						
2ICV1 ICV 1 20u	1773794	8.47	1627497	9.94	1429018	10.91
2LCSS01 72179,LCS	1966475	8.47	1851045	9.93	1710163	10.90
2MBS01 72179,MBS	1744631	8.47	1599104	9.93	1489619	10.90
870201 72179,870	1852195	8.46	1711956	9.93	1393987	10.90
870201DR 72179,MSD	1927121	8.47	1774363	9.94	1414941	10.91
870201MS 72179,MSS	1924294	8.47	1792426	9.94	1620580	10.91
870201SD 72179,MSD	1917039	8.47	1788125	9.94	1599522	10.91
870201SR 72179,MSS	1983037	8.47	1804255	9.94	1500695	10.91
870203 72179,870	1931058	8.47	1798654	9.93	1576756	10.90

IS4 (PHN) = Phenanthrd10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk
* Values outside of contract required QC limits

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Contract :
Project : Site : Location : Group : 82399
Lab File ID (Standard): 2ICAL4.D Date Analyzed : 2 Dec 2010
Instrument ID : SVMS2 Time Analyzed : 12:48 pm
GC Column : ID : (mm) Heated Purge (Y:N) :

	IS1 (DCB)		IS2 (NPT)		IS3 (ANT)	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	480653	4.43	2199649	6.07	1168924	7.58
UPPER LIMIT	961306	4.93	4399298	6.57	2337848	8.08
LOWER LIMIT	240327	3.93	1099825	5.57	584462	7.08
File ID Sample						
2CCV47 CCV 20ug	311650	4.42	1384541	6.07	668026	7.57
2LCSS02R 72179,LCS	402037	4.42	1868468	6.07	921563	7.58

IS1 (DCB) = 14Diclbenzd4
IS2 (NPT) = Naphthalened8
IS3 (ANT) = Acenaphthened10

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk
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SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Contract :
Project : Site : Location : Group : 82399
Lab File ID (Standard): 2ICAL4.D Date Analyzed : 2 Dec 2010
Instrument ID : SVMS2 Time Analyzed : 12:48 pm
GC Column : ID : (mm) Heated Purge (Y:N) :

	IS4 (PHN)		IS5 (CRY)		IS6 (PRY)	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	1716493	8.47	1597155	9.94	1415096	10.90
UPPER LIMIT	3432986	8.97	3194310	10.44	2830192	11.40
LOWER LIMIT	858247	7.97	798578	9.44	707548	10.40
File ID Sample						
2CCV47 CCV 20ug	973359	8.48	795003 *	9.93	675578 *	10.90
2LCSS02R 72179,LCS	1415000	8.48	1240692	9.93	1159099	10.89

IS4 (PHN) = Phenanthrd10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

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SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Contract :
Project : Site : Location : Group : 82399
Lab File ID (Standard): 2ICAL4.D Date Analyzed : 2 Dec 2010
Instrument ID : SVMS2 Time Analyzed : 12:48 pm
GC Column : ID : (mm) Heated Purge (Y:N) :

	IS1 (DCB)		IS2 (NPT)		IS3 (ANT)	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	480653	4.43	2199649	6.07	1168924	7.58
UPPER LIMIT	961306	4.93	4399298	6.57	2337848	8.08
LOWER LIMIT	240327	3.93	1099825	5.57	584462	7.08
File ID Sample						
2CCV51 CCV 20ug	622612	4.39	2866579	6.04	1444841	7.55
2LCSS02 72359,LCS	715573	4.39	3302573	6.04	1654642	7.55
2MBS02 72359,MBS	717652	4.39	3306199	6.04	1641917	7.55
870189 72359,870	692232	4.39	3217351	6.03	1694604	7.55
870189MS 72359,MSS	777019	4.39	3366733	6.04	1816410	7.55
870189SD 72359,MSD	774530	4.39	3318897	6.04	1826890	7.55
870194 72359,870	697051	4.39	3301015	6.04	1696069	7.55
870195 72359,870	730777	4.39	3278254	6.04	1755548	7.55
870212 72359,870	738999	4.39	2947652	6.04	1773178	7.55

IS1 (DCB) = 14Diclbenzd4
IS2 (NPT) = Naphthalened8
IS3 (ANT) = Acenaphthened10

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk
* Values outside of contract required QC limits

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Contract :
Project : Site : Location : Group : 82399
Lab File ID (Standard): 2ICAL4.D Date Analyzed : 2 Dec 2010
Instrument ID : SVMS2 Time Analyzed : 12:48 pm
GC Column : ID : (mm) Heated Purge (Y:N) :

	IS4 (PHN)		IS5 (CRY)		IS6 (PRY)	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	1716493	8.47	1597155	9.94	1415096	10.90
UPPER LIMIT	3432986	8.97	3194310	10.44	2830192	11.40
LOWER LIMIT	858247	7.97	798578	9.44	707548	10.40
File ID Sample						
2CCV51 CCV 20ug	2134590	8.45	1888348	9.93	1749196	10.88
2LCSS02 72359,LCS	2430985	8.45	2148045	9.91	1901358	10.87
2MBS02 72359,MBS	2438993	8.45	2181834	9.91	1889978	10.86
870189 72359,870	2511154	8.44	2220035	9.91	1868829	10.87
870189MS 72359,MSS	2722431	8.45	2327174	9.92	1831182	10.88
870189SD 72359,MSD	2695842	8.45	2280668	9.91	1715214	10.87
870194 72359,870	2548590	8.44	2249120	9.92	1751471	10.88
870195 72359,870	2635762	8.45	2318938	9.91	1790940	10.87
870212 72359,870	2631380	8.45	2304985	9.91	1802038	10.87

IS4 (PHN) = Phenanthrd10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

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SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Contract :
Project : Site : Location : Group : 82399
Lab File ID (Standard): 2ICAL4.D Date Analyzed : 2 Dec 2010
Instrument ID : SVMS2 Time Analyzed : 12:48 pm
GC Column : ID : (mm) Heated Purge (Y:N) :

	IS1 (DCB)		IS2 (NPT)		IS3 (ANT)	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	480653	4.43	2199649	6.07	1168924	7.58
UPPER LIMIT	961306	4.93	4399298	6.57	2337848	8.08
LOWER LIMIT	240327	3.93	1099825	5.57	584462	7.08
File ID Sample						
2CCV53 CCV 20ug	668971	4.38	3090092	6.03	1590707	7.55
2LCSS02R 72359,LCS	847052	4.37	3947408	6.03	1969517	7.54
870189DR 72359,MSD	841601	4.38	3754058	6.03	2001710	7.55
870189SR 72359,MSS	813970	4.38	3602288	6.03	1976100	7.54

IS1 (DCB) = 14Diclbenzd4
IS2 (NPT) = Naphthalened8
IS3 (ANT) = Acenaphthened10

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk
* Values outside of contract required QC limits

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SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Contract :
Project : Site : Location : Group : 82399
Lab File ID (Standard): 2ICAL4.D Date Analyzed : 2 Dec 2010
Instrument ID : SVMS2 Time Analyzed : 12:48 pm
GC Column : ID : (mm) Heated Purge (Y:N) :

	IS4 (PHN)		IS5 (CRY)		IS6 (PRY)	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	1716493	8.47	1597155	9.94	1415096	10.90
UPPER LIMIT	3432986	8.97	3194310	10.44	2830192	11.40
LOWER LIMIT	858247	7.97	798578	9.44	707548	10.40
File ID Sample						
2CCV53 CCV 20ug	2288032	8.44	2048260	9.91	1815618	10.87
2LCSS02R 72359,LCS	2929499	8.44	2634915	9.91	2445784	10.87
870189DR 72359,MSD	2921544	8.44	2461001	9.91	2109629	10.87
870189SR 72359,MSS	2902717	8.44	2535003	9.91	2277810	10.87

IS4 (PHN) = Phenanthrd10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

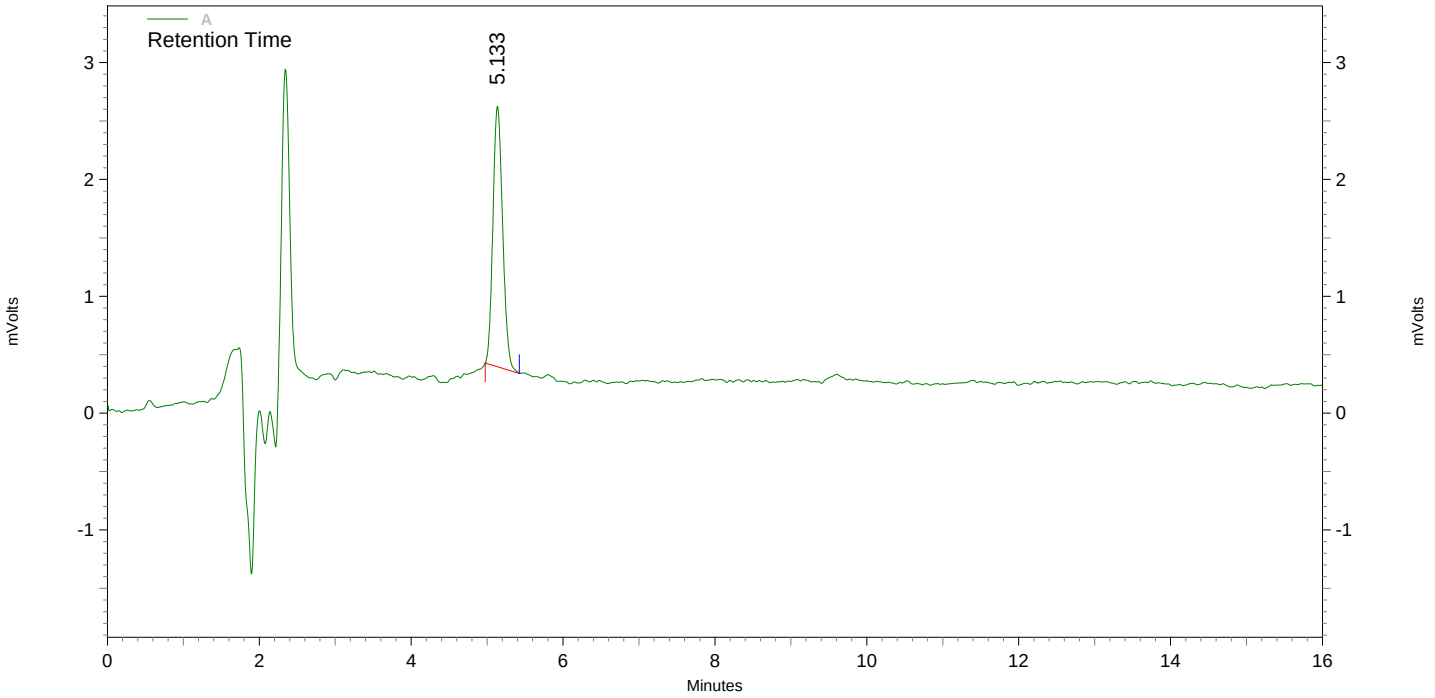
AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

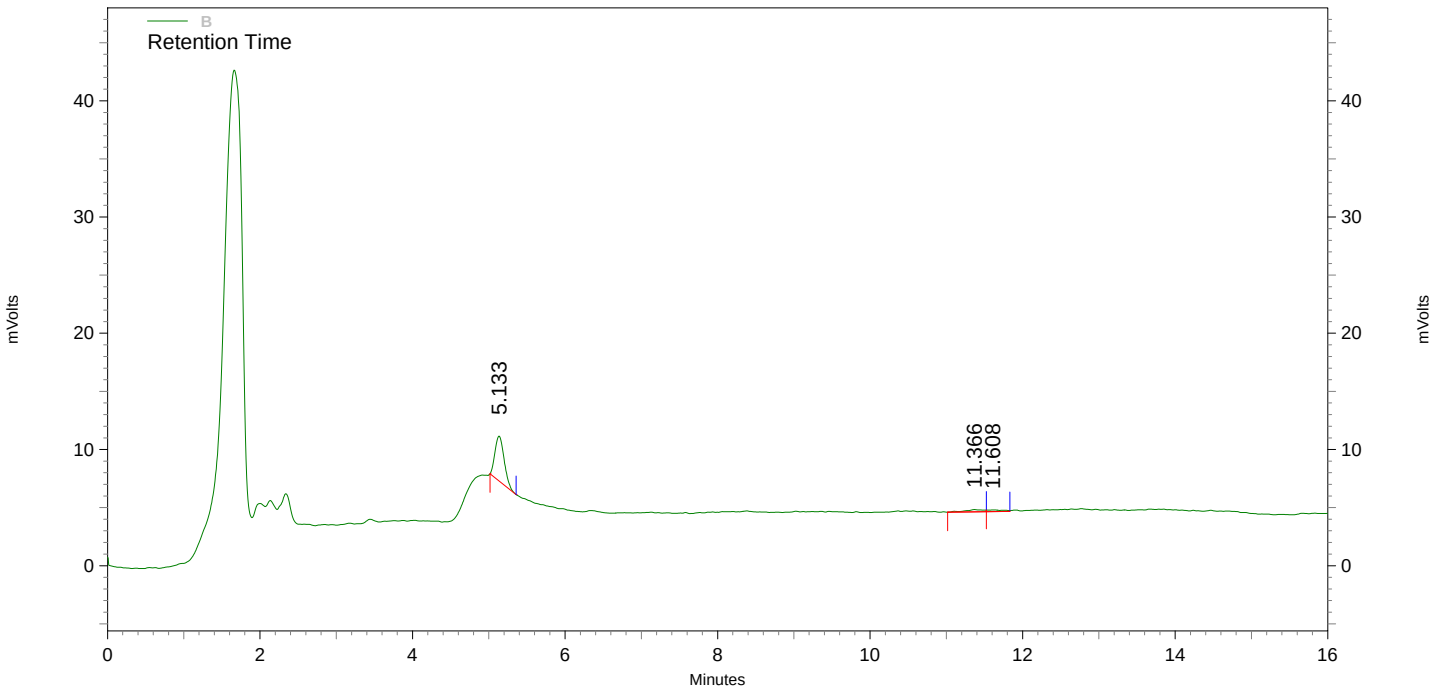
Column to be used to flag values outside QC limit with an asterisk
* Values outside of contract required QC limits

SEMI - VOLATILE ORGANIC ANALYSIS
SAMPLE DATA
DOCUMENTS

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\8330A_B\121310exp-primary\005.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\121310exp-primary.met
Sample ID: 72413,870201,
Acquired: Dec 14, 2010 10:44:23
Data Summary: {Data Description}





A Results

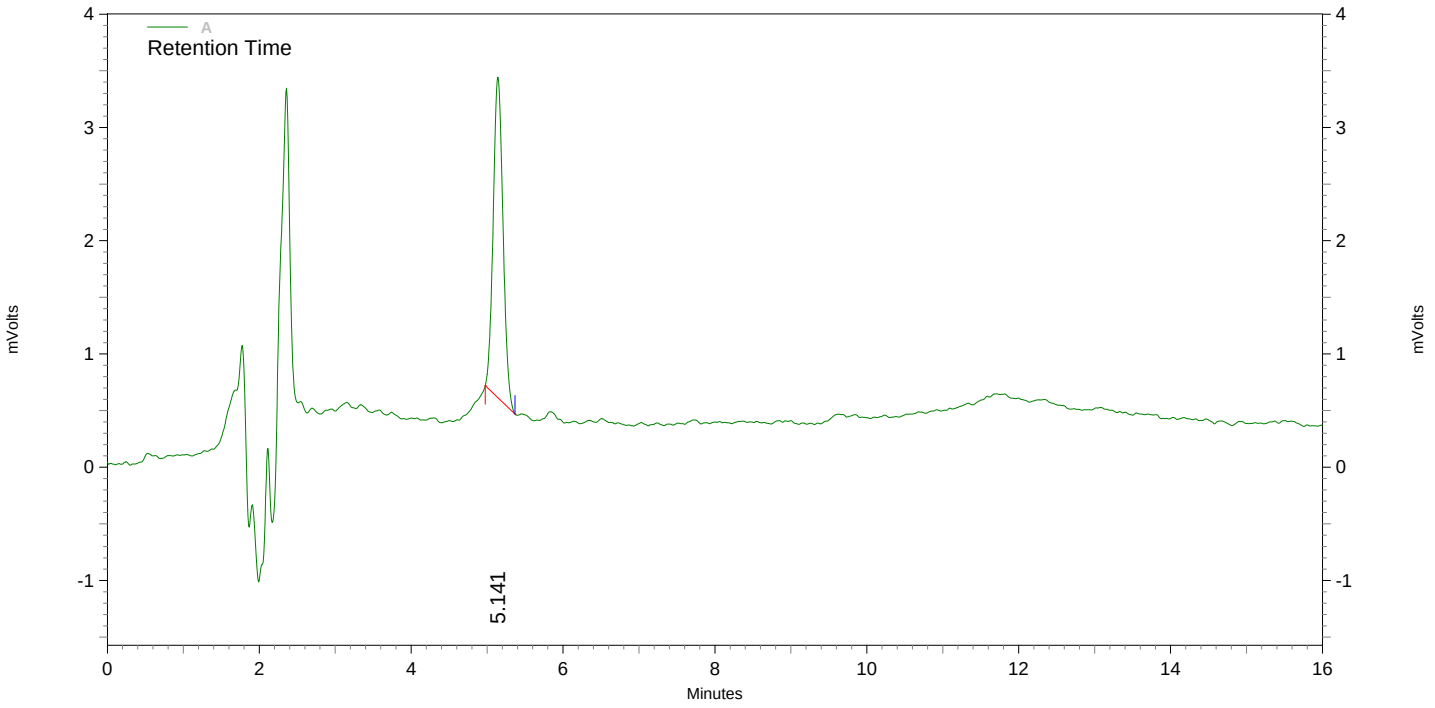
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX			**0.000 BDL**
RDX			**0.000 BDL**
12-DNB (SSTD)	5.133	19814	**109.943**
135-TNB			**0.000 BDL**
13-DNB			**0.000 BDL**
TETRYL			**0.000 BDL**
35-DNA			**0.000 BDL**
NB			**0.000 BDL**
246-TNT			**0.000 BDL**
4-AM-26-DNT			**0.000 BDL**
2-AM-46-DNT			**0.000 BDL**
2-NT			**0.000 BDL**
4-NT			**0.000 BDL**
3-NT			**0.000 BDL**

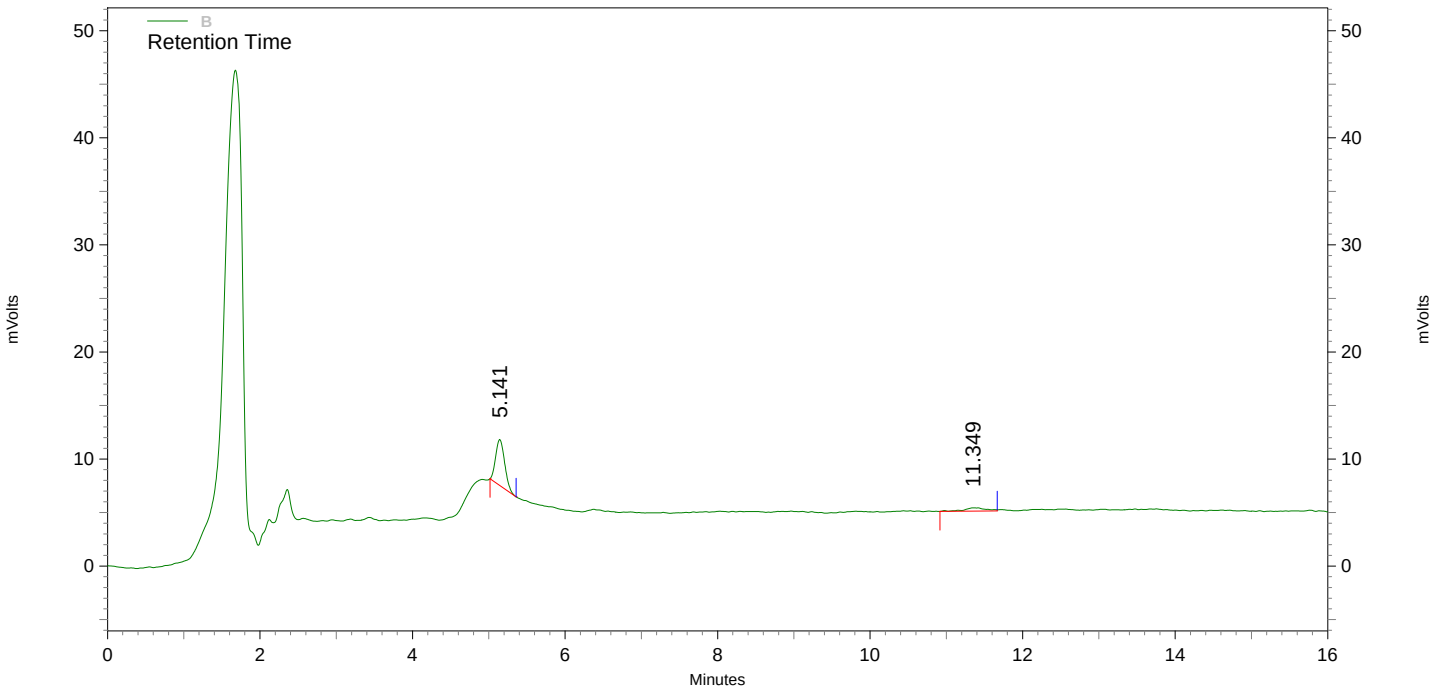
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG			**0.000 BDL**
26-DNT			**0.000 BDL**
24-DNT			**0.000 BDL**
PETN			**0.000 BDL**

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\8330A_B\121310exp-primary\010.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\121310exp-primary.met
Sample ID: 72413,870203,
Acquired: Dec 14, 2010 12:40:23
Data Summary: {Data Description}





A Results

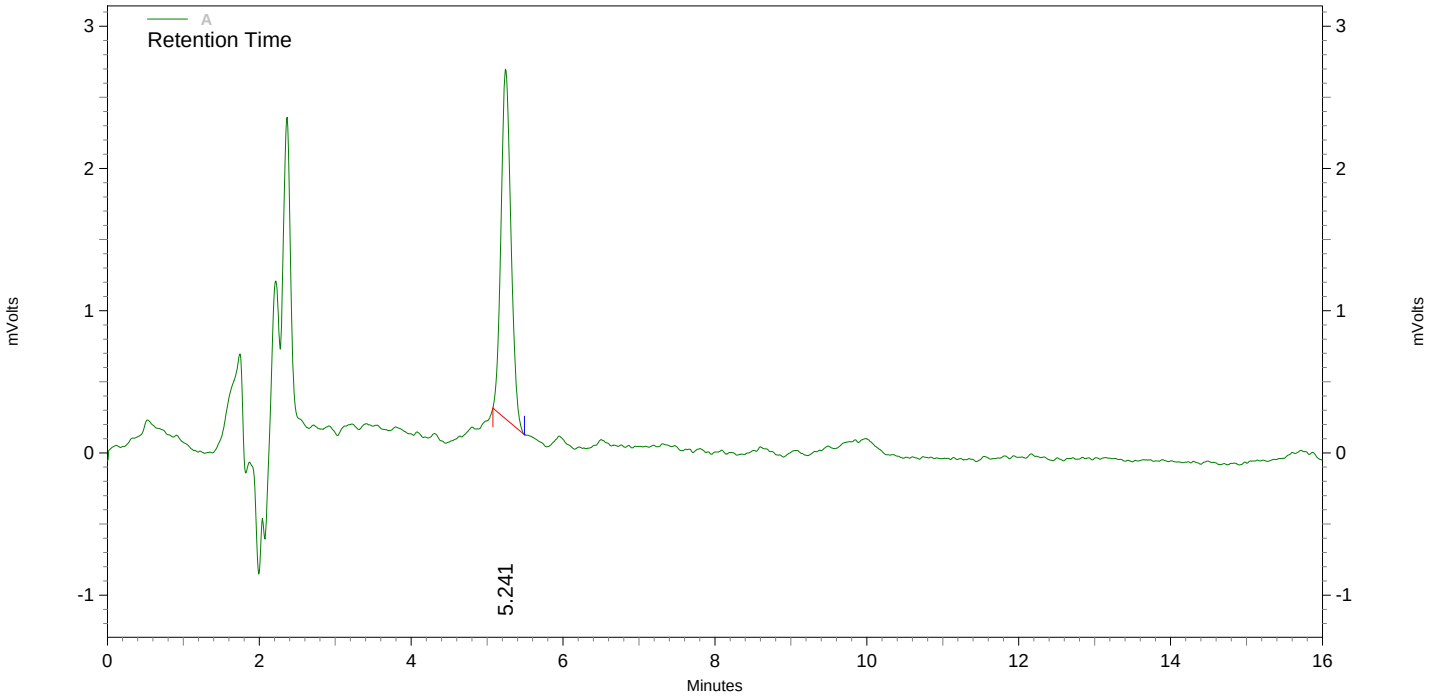
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX			**0.000 BDL**
RDX			**0.000 BDL**
12-DNB (SSTD)	5.141	25385	**141.742**
135-TNB			**0.000 BDL**
13-DNB			**0.000 BDL**
TETRYL			**0.000 BDL**
35-DNA			**0.000 BDL**
NB			**0.000 BDL**
246-TNT			**0.000 BDL**
4-AM-26-DNT			**0.000 BDL**
2-AM-46-DNT			**0.000 BDL**
2-NT			**0.000 BDL**
4-NT			**0.000 BDL**
3-NT			**0.000 BDL**

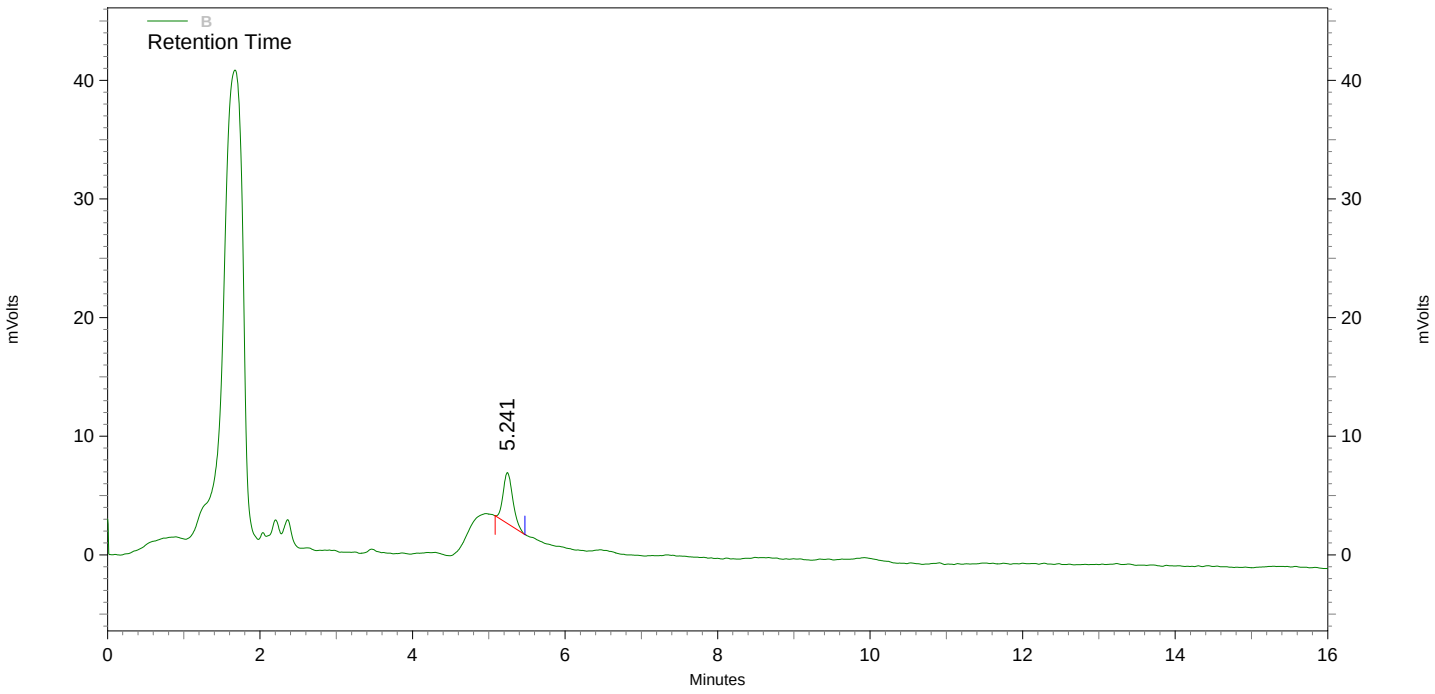
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG			**0.000 BDL**
26-DNT			**0.000 BDL**
24-DNT			**0.000 BDL**
PETN			**0.000 BDL**

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\8330A_B\121310exp-primary\019.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\121310exp-primary.met
Sample ID: 72415,870189,
Acquired: Dec 14, 2010 17:27:00
Data Summary: {Data Description}





A Results

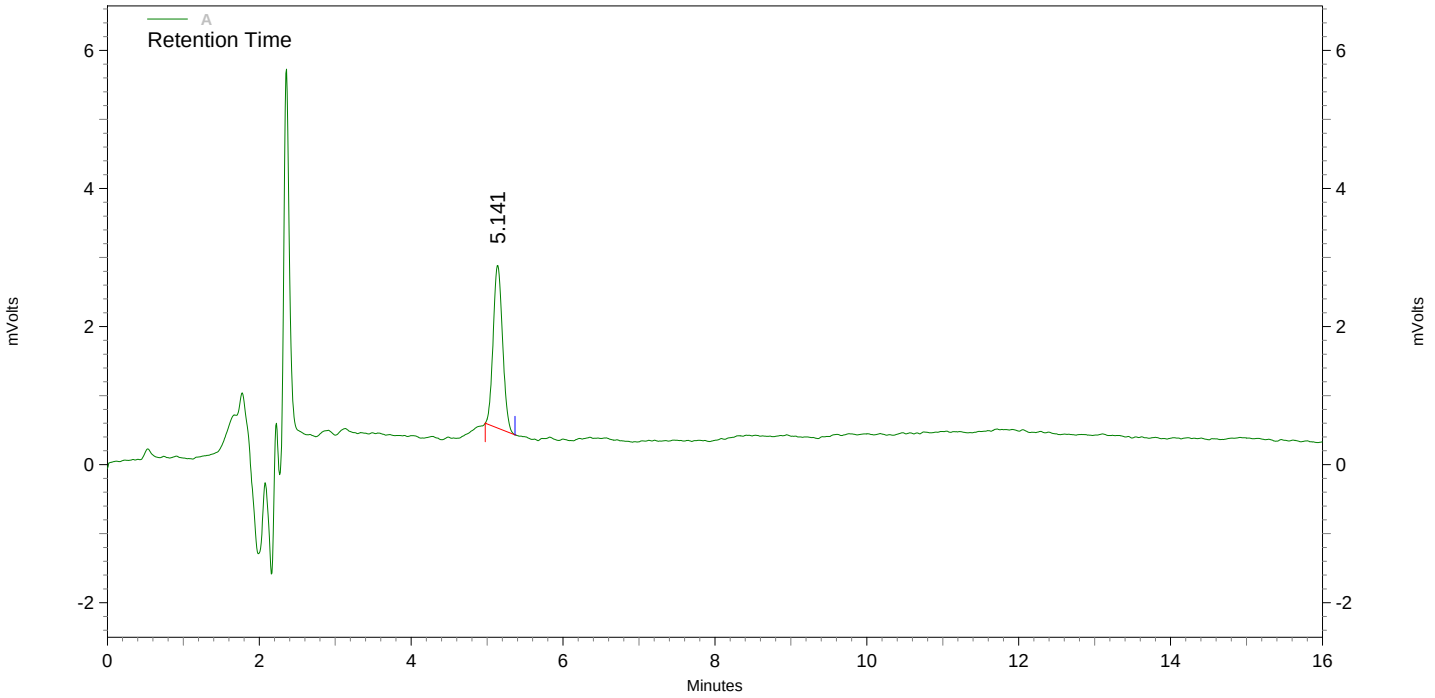
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX			**0.000 BDL**
RDX			**0.000 BDL**
12-DNB (SSTD)	5.241	22441	**124.938**
135-TNB			**0.000 BDL**
13-DNB			**0.000 BDL**
TETRYL			**0.000 BDL**
35-DNA			**0.000 BDL**
NB			**0.000 BDL**
246-TNT			**0.000 BDL**
4-AM-26-DNT			**0.000 BDL**
2-AM-46-DNT			**0.000 BDL**
2-NT			**0.000 BDL**
4-NT			**0.000 BDL**
3-NT			**0.000 BDL**

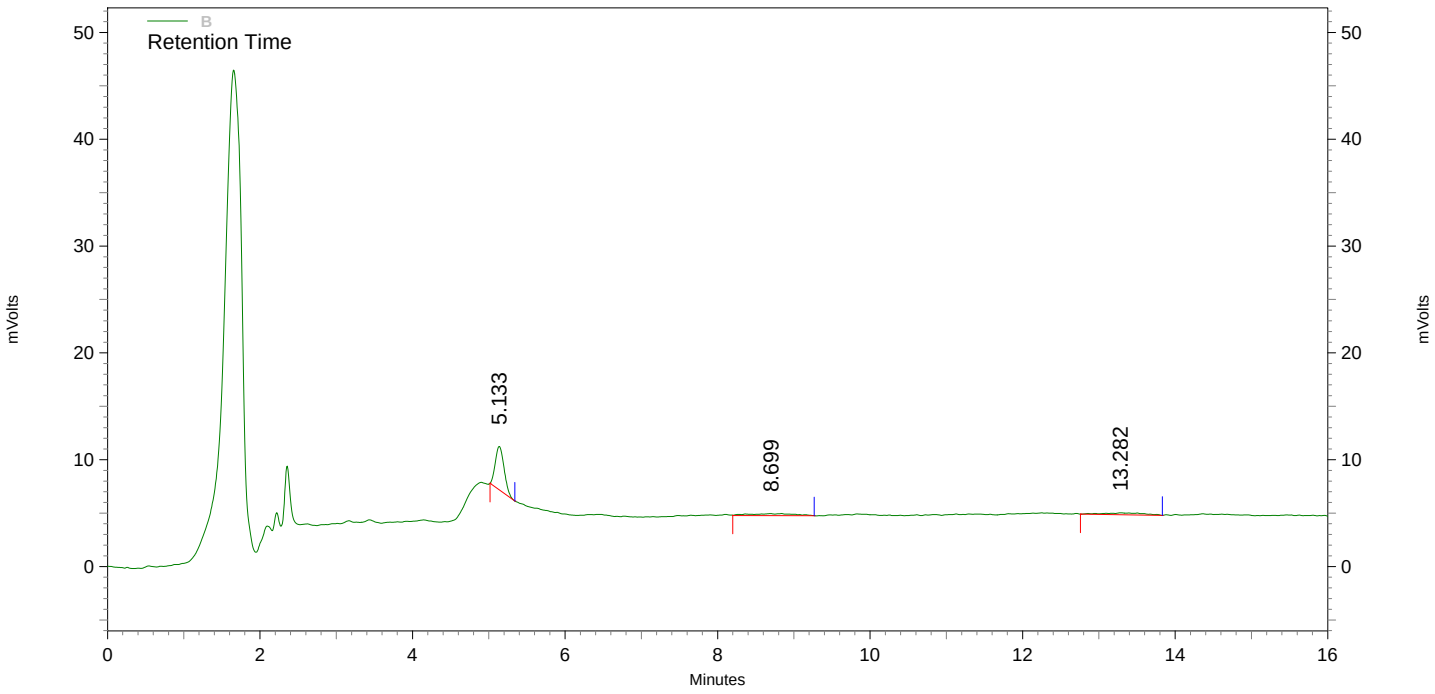
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG			**0.000 BDL**
26-DNT			**0.000 BDL**
24-DNT			**0.000 BDL**
PETN			**0.000 BDL**

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\8330A_B\121310exp-primary\024.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\121310exp-primary.met
Sample ID: 72415,870194,
Acquired: Dec 14, 2010 19:23:03
Data Summary: {Data Description}





A Results

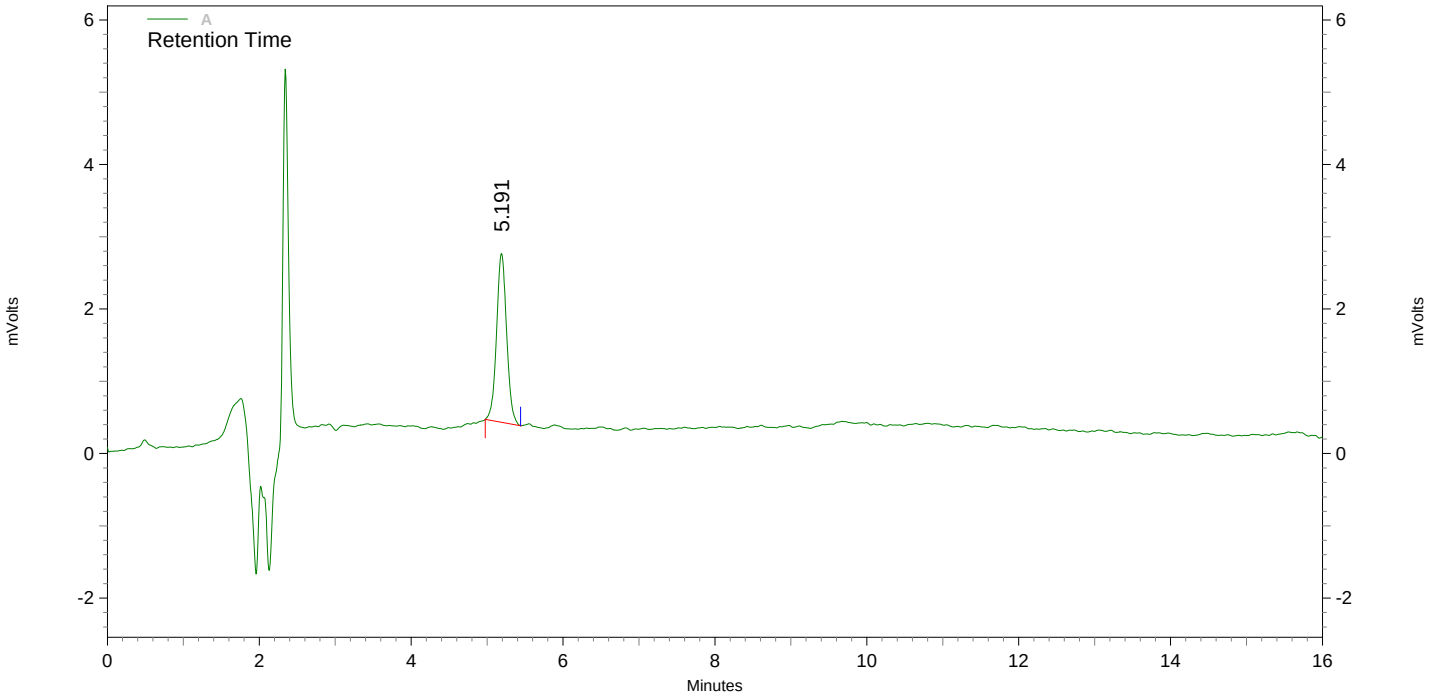
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX			**0.000 BDL**
RDX			**0.000 BDL**
12-DNB (SSTD)	5.141	20235	**112.346**
135-TNB			**0.000 BDL**
13-DNB			**0.000 BDL**
TETRYL			**0.000 BDL**
35-DNA			**0.000 BDL**
NB			**0.000 BDL**
246-TNT			**0.000 BDL**
4-AM-26-DNT			**0.000 BDL**
2-AM-46-DNT			**0.000 BDL**
2-NT			**0.000 BDL**
4-NT			**0.000 BDL**
3-NT			**0.000 BDL**

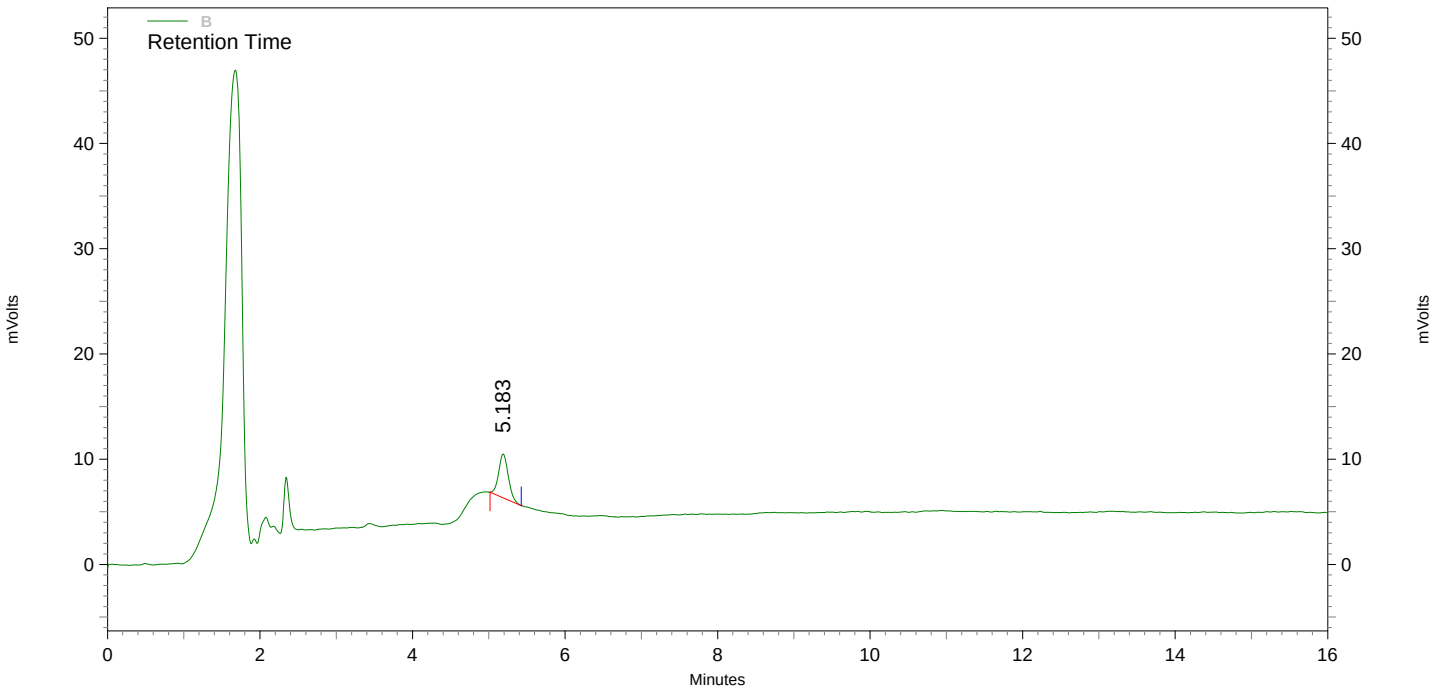
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG			**0.000 BDL**
26-DNT			**0.000 BDL**
24-DNT			**0.000 BDL**
PETN			**0.000 BDL**

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\8330A_B\121310exp-primary\026.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\121310exp-primary.met
Sample ID: 72415,870195,
Acquired: Dec 14, 2010 20:09:24
Data Summary: {Data Description}





A Results

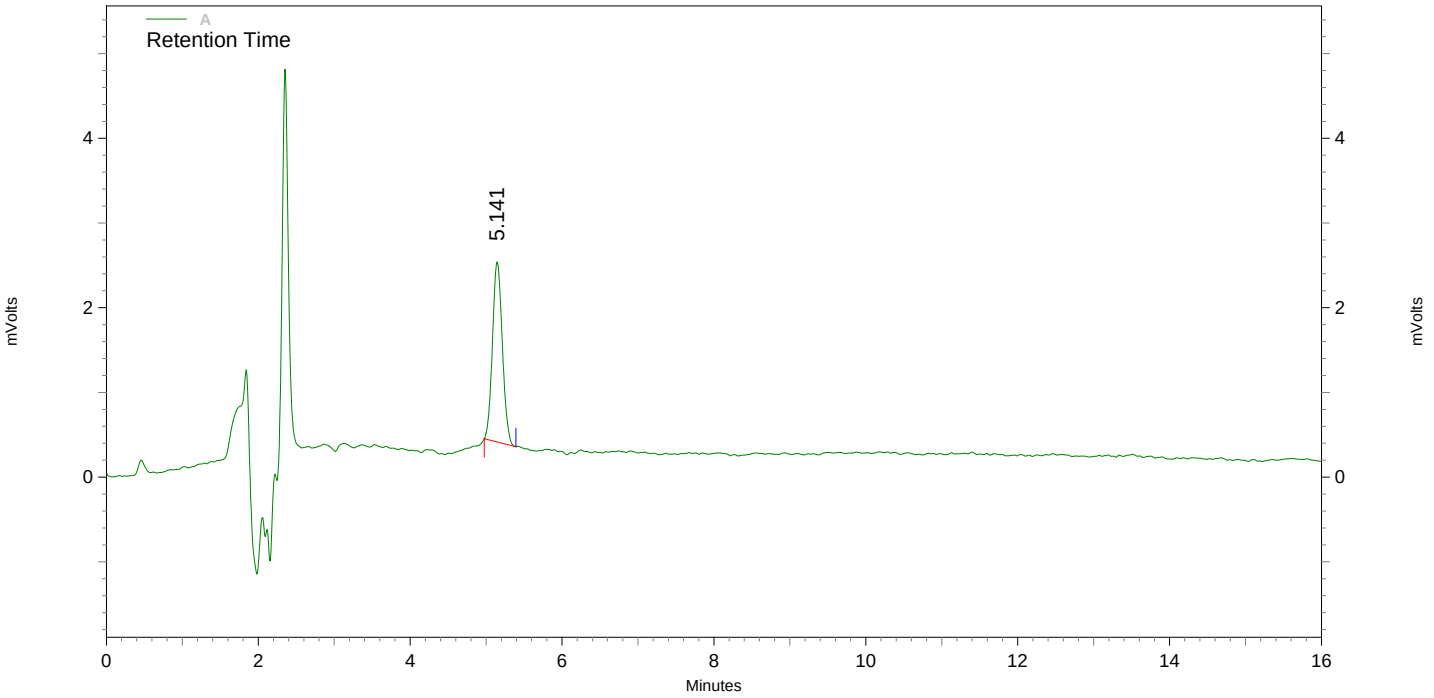
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX			**0.000 BDL**
RDX			**0.000 BDL**
12-DNB (SSTD)	5.191	21569	**119.960**
135-TNB			**0.000 BDL**
13-DNB			**0.000 BDL**
TETRYL			**0.000 BDL**
35-DNA			**0.000 BDL**
NB			**0.000 BDL**
246-TNT			**0.000 BDL**
4-AM-26-DNT			**0.000 BDL**
2-AM-46-DNT			**0.000 BDL**
2-NT			**0.000 BDL**
4-NT			**0.000 BDL**
3-NT			**0.000 BDL**

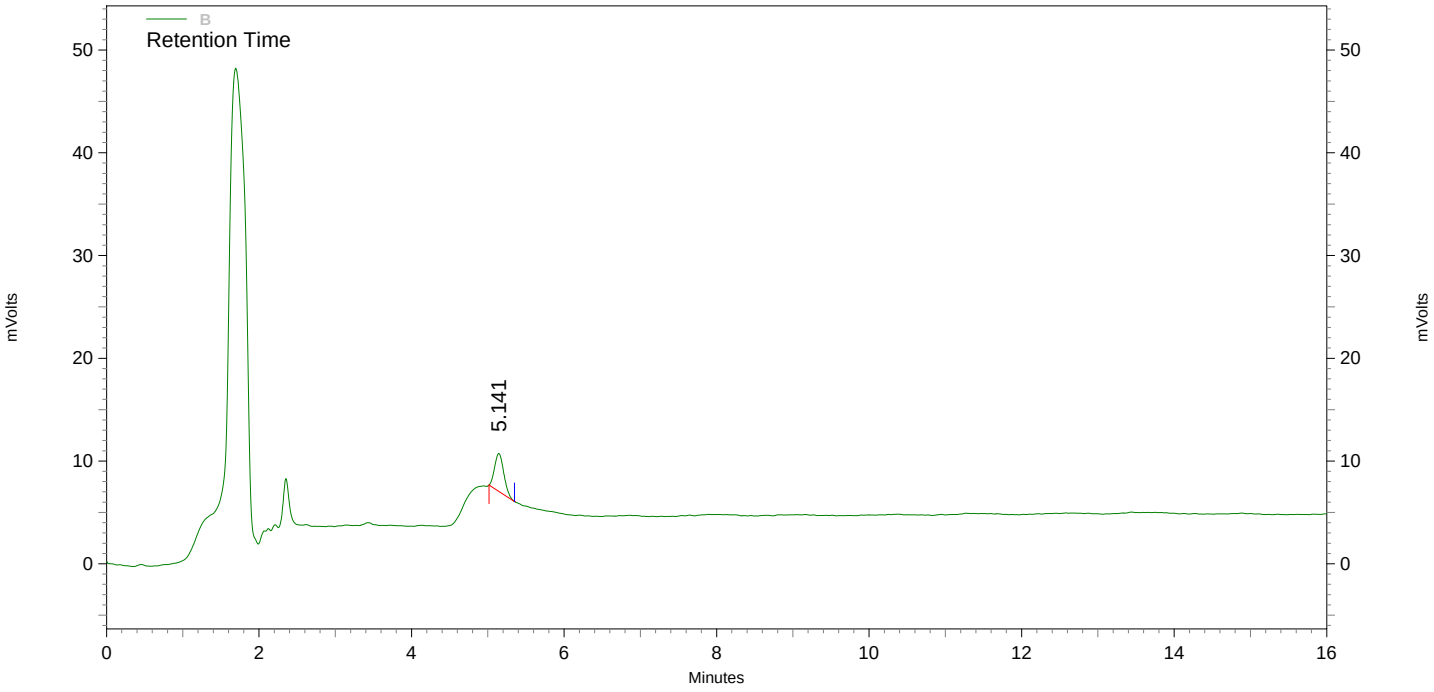
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG			**0.000 BDL**
26-DNT			**0.000 BDL**
24-DNT			**0.000 BDL**
PETN			**0.000 BDL**

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\8330A_B\121310exp-primary\027.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\121310exp-primary.met
Sample ID: 72415,870212,
Acquired: Dec 14, 2010 20:32:35
Data Summary: {Data Description}





A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX			**0.000 BDL**
RDX			**0.000 BDL**
12-DNB (SSTD)	5.141	19182	**106.336**
135-TNB			**0.000 BDL**
13-DNB			**0.000 BDL**
TETRYL			**0.000 BDL**
35-DNA			**0.000 BDL**
NB			**0.000 BDL**
246-TNT			**0.000 BDL**
4-AM-26-DNT			**0.000 BDL**
2-AM-46-DNT			**0.000 BDL**
2-NT			**0.000 BDL**
4-NT			**0.000 BDL**
3-NT			**0.000 BDL**

B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG			**0.000 BDL**
26-DNT			**0.000 BDL**
24-DNT			**0.000 BDL**
PETN			**0.000 BDL**

Relative Percent Difference (RPD) Calculation for P-qualified 8330B Analytes by Sample Number				
Sample #	Analyte	Primary Value (ug/mL)	Confirmation Value (ug/mL)	RPD
870201	Nitroguanidine (NQ)	0.172	0.077	76.30522
870203	NQ	0.127	0.059	73.11828
870194	NQ	0.318	0.171	60.1227
870195	NQ	0.3	0.16	60.86957
870212	NQ	0.133	0.071	60.78431

After Manual Integration

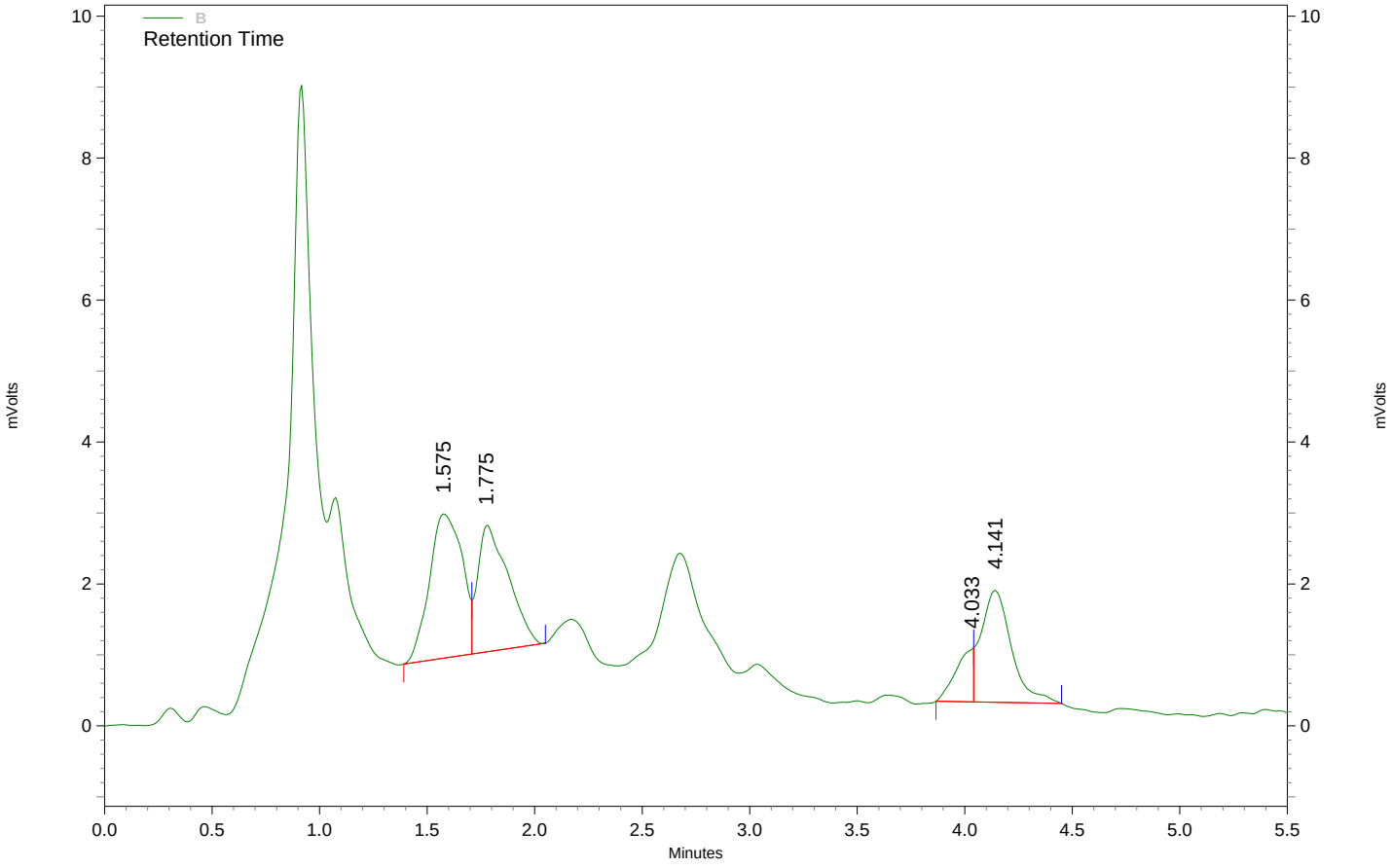
JJY
12/30/2010

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\NQ\121610NQ-primary\005.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121610NQ-primary.met
Sample ID: 72412,870201,
Acquired: Dec 16, 2010 09:41:40

RED
12/30/2010

Data Summary: Reasons #3 and #4 apply to data. The baseline integration was adjusted to follow the chromatogram baseline and a split was added to remove an interfering shoulder from the surrogate peak. RED 12/16/2010



B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.575	21589	**0.172**
12-DNB (SSTD)	4.141	15470	**114.893**

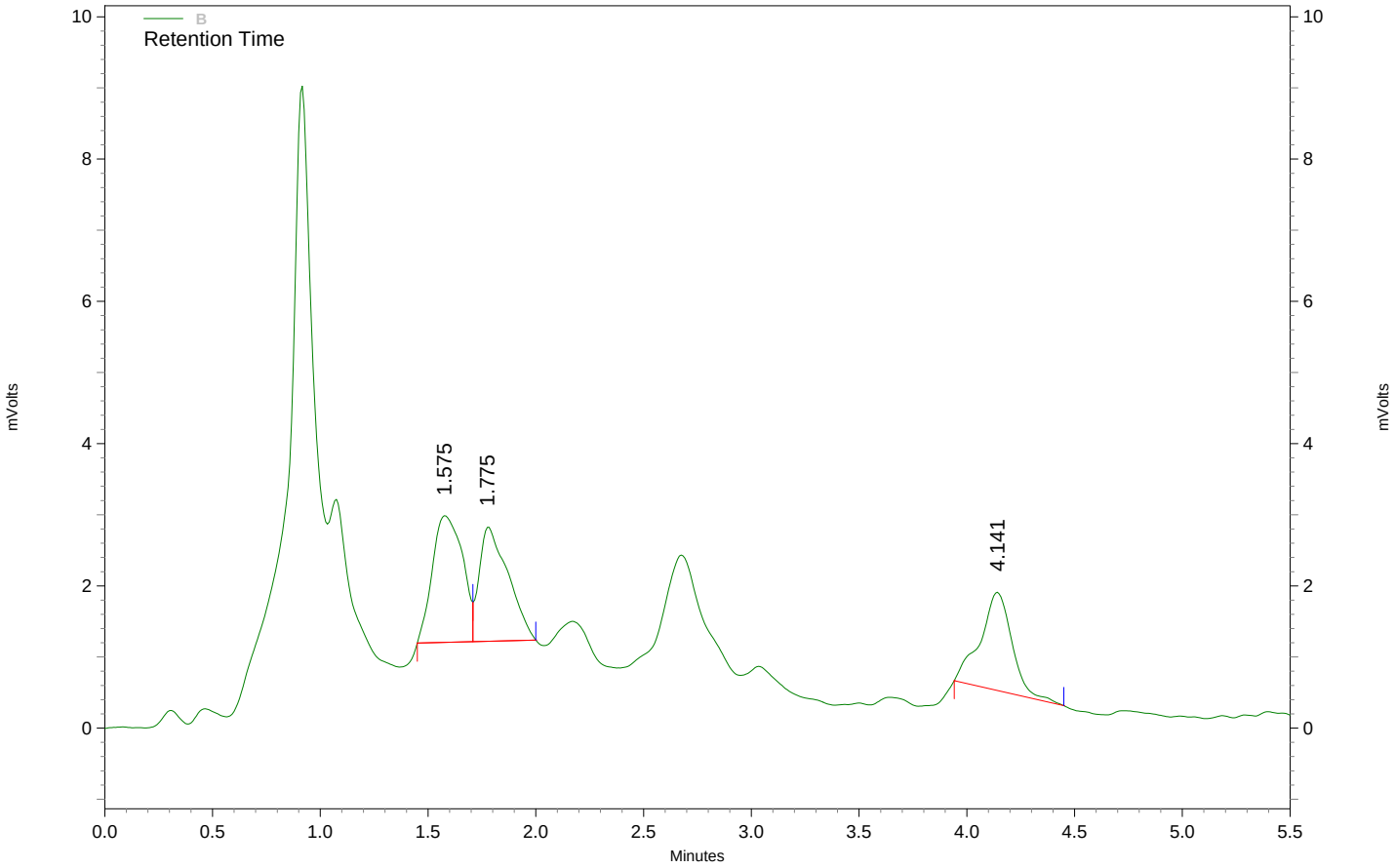
Before Manual Integration

JJY
12/30/2010

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\101610NQ-primary\005.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121610NQ-primary.met
Sample ID: 72412,870201,
Acquired: Dec 16, 2010 09:41:40
Data Summary: {Data Description}



B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.575	17369	**0.136**
12-DNB (SSTD)	4.141	14070	**104.516**

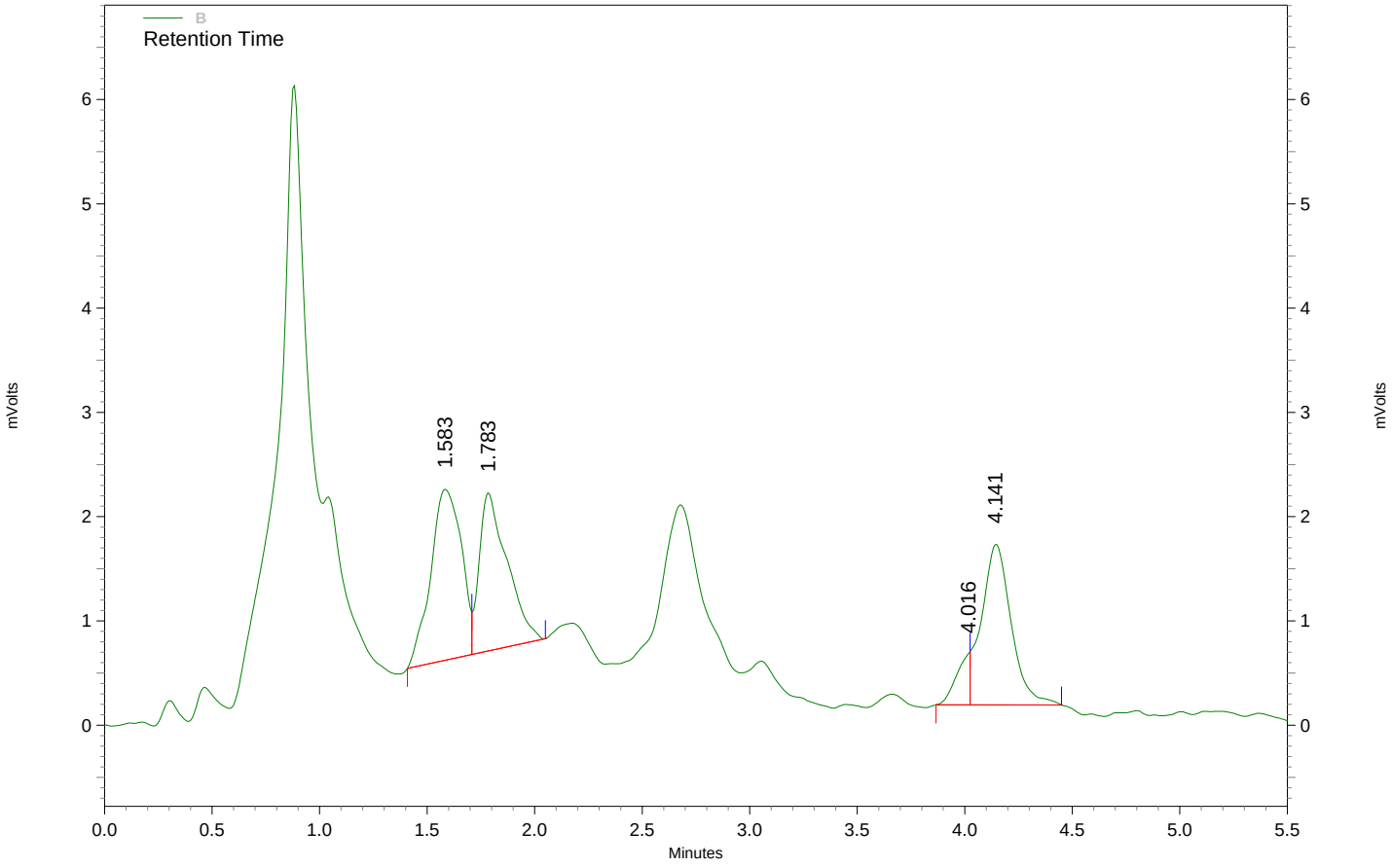
After Manual Integration JJY 12/30/2010

Explosives - 8330

RED 12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121610NQ-primary\010.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121610NQ-primary.met
Sample ID: 72412,870203,
Acquired: Dec 16, 2010 10:20:36

Data Summary: Reasons #3 and #4 apply to data. The baseline integration was adjusted to follow the chromatogram baseline and a split was added to remove an interfering shoulder from the surrogate peak. RED 12/16/2010



B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.583	16275	**0.127**
12-DNB (SSTD)	4.141	14805	**109.964**

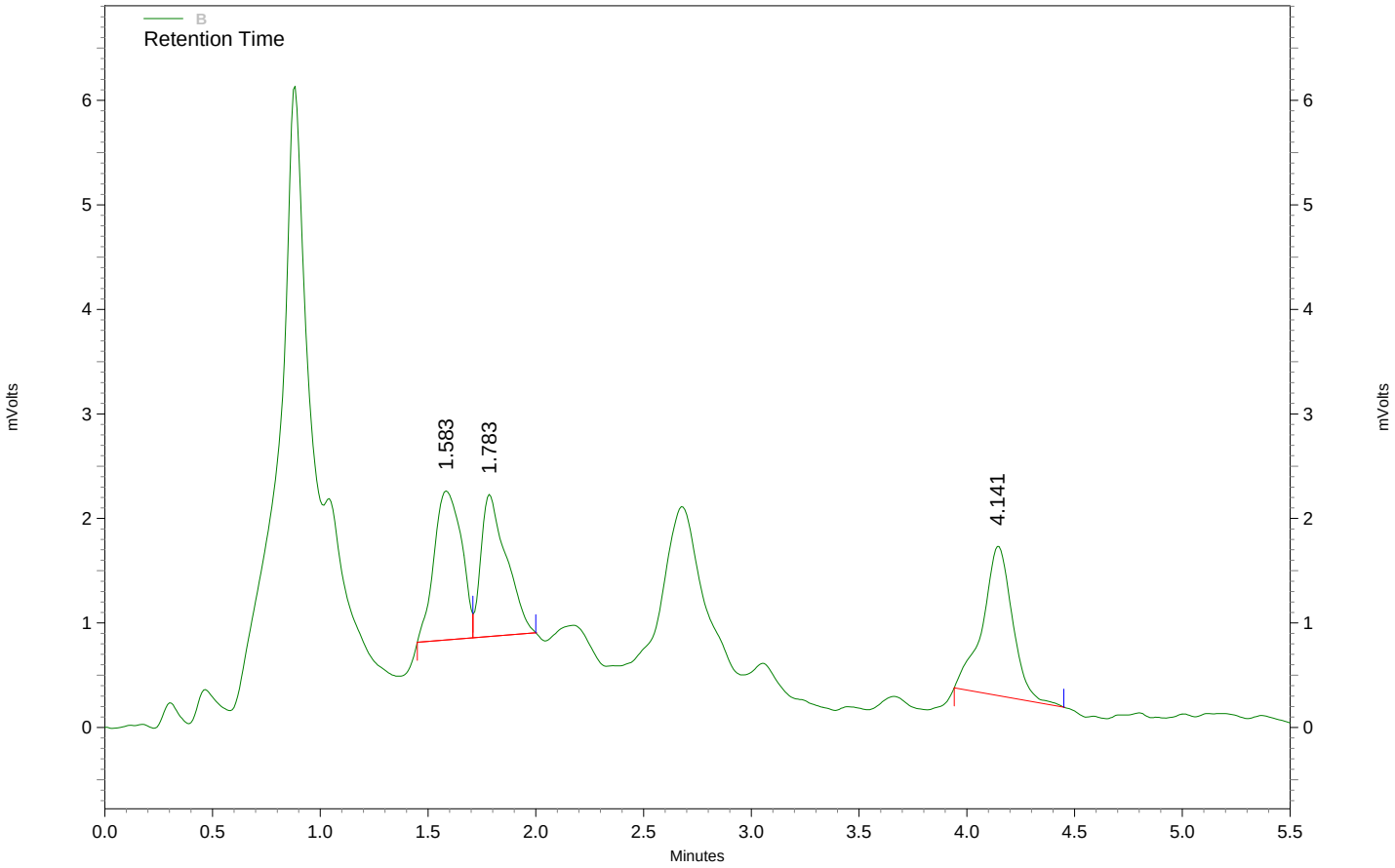
Before Manual Integration

JJY
12/30/2010

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\101610NQ-primary\010.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121610NQ-primary.met
Sample ID: 72412,870203,
Acquired: Dec 16, 2010 10:20:36
Data Summary: {Data Description}



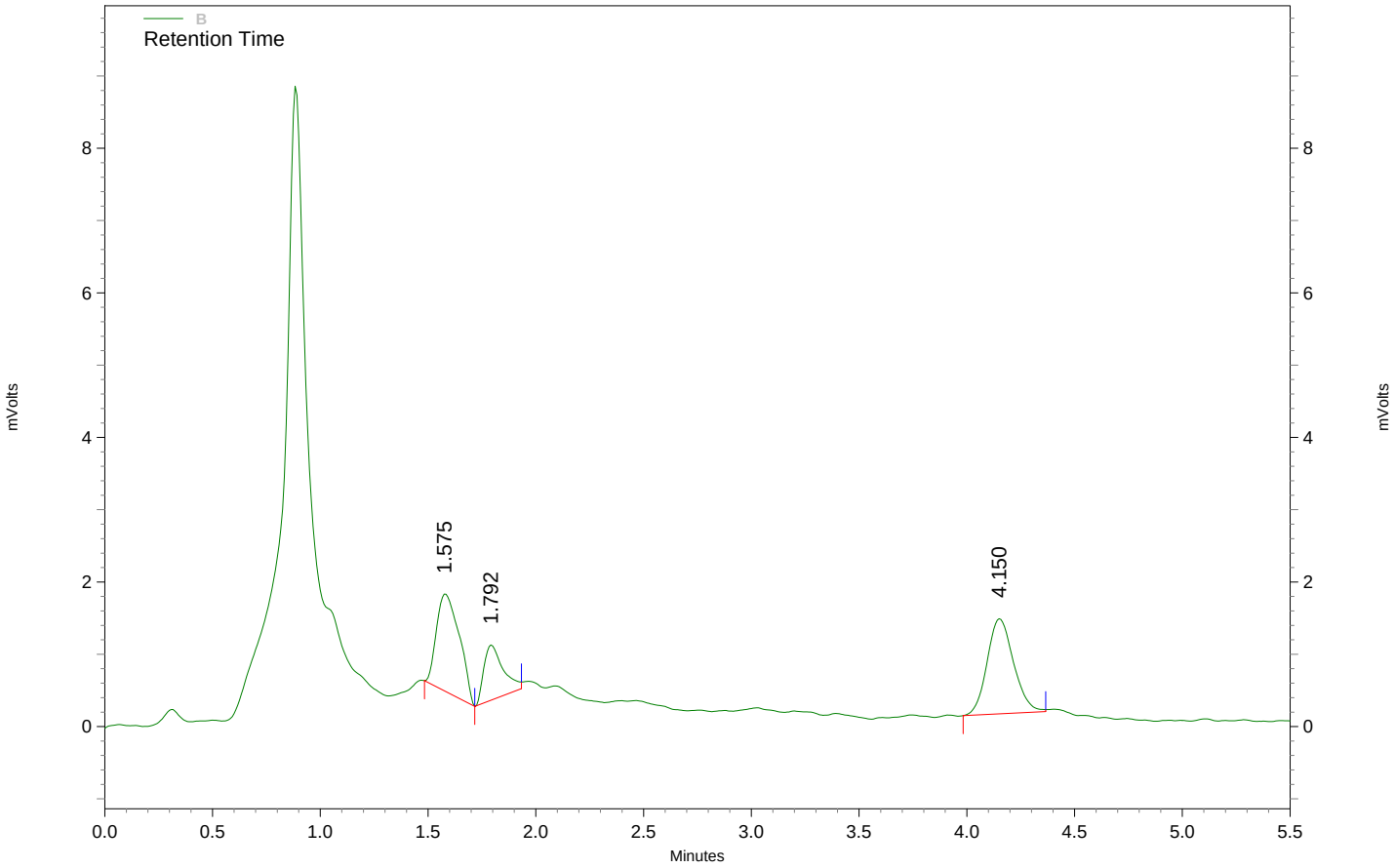
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.583	12667	**0.096**
12-DNB (SSTD)	4.141	13827	**102.715**

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\NQ\121610NQ-primary\018.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121610NQ-primary.met
Sample ID: 72414,870189,
Acquired: Dec 16, 2010 11:37:08
Data Summary: {Data Description}

RED
12/30/2010



B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.575	10059	**0.074**
12-DNB (SSTD)	4.150	11229	**83.458**

After Manual Integration

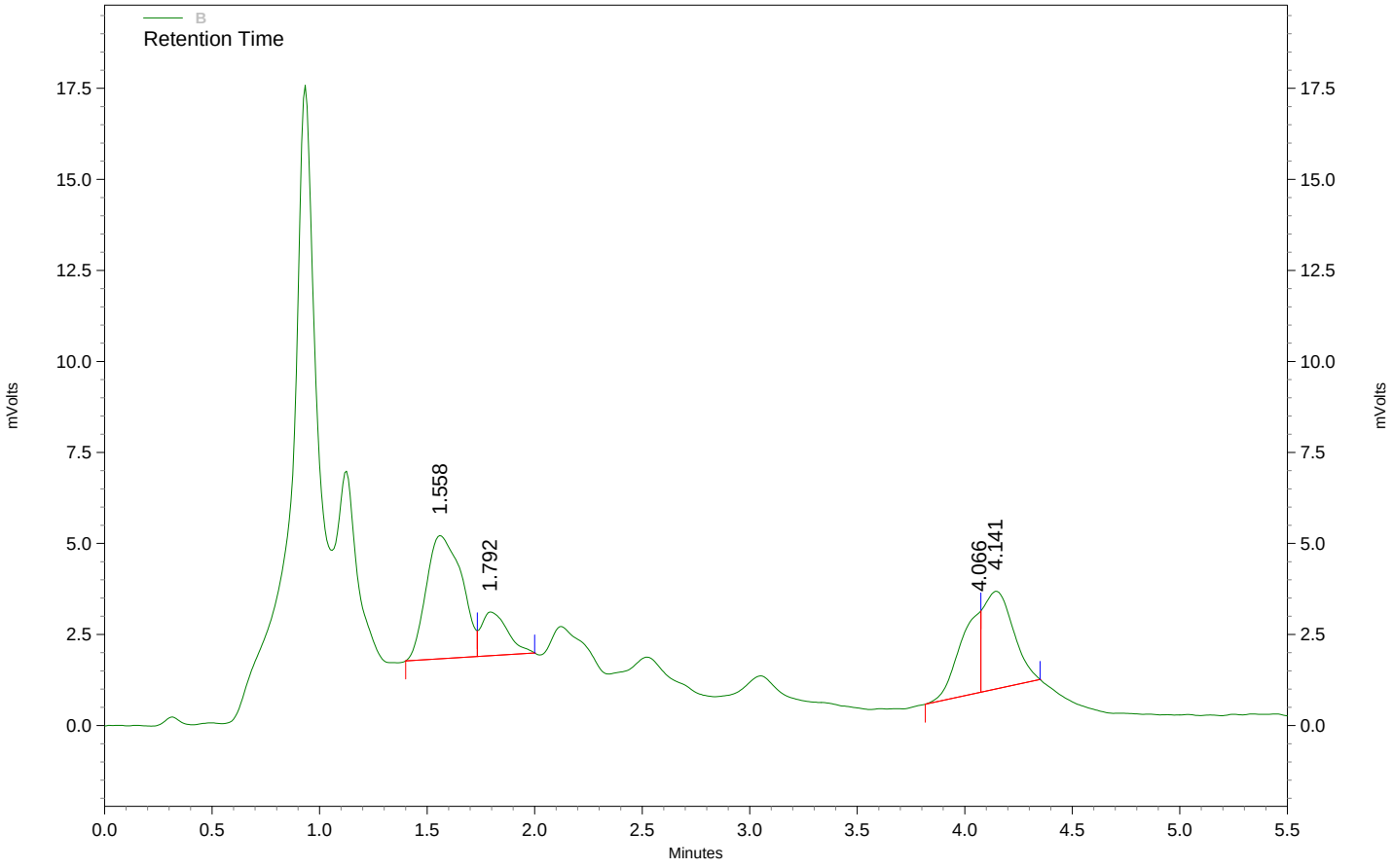
JJY
12/30/2010

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121610NQ-primary\023.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121610NQ-primary.met
Sample ID: 72414,870194,
Acquired: Dec 16, 2010 12:16:07

Data Summary: Reasons #3 and #4 apply to data. The baseline integration was adjusted to follow the chromatogram baseline and a split was added to remove an interfering shoulder from the surrogate peak. RED 12/16/2010



B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.558	38774	**0.318**
12-DNB (SSTD)	4.141	25811	**191.543**

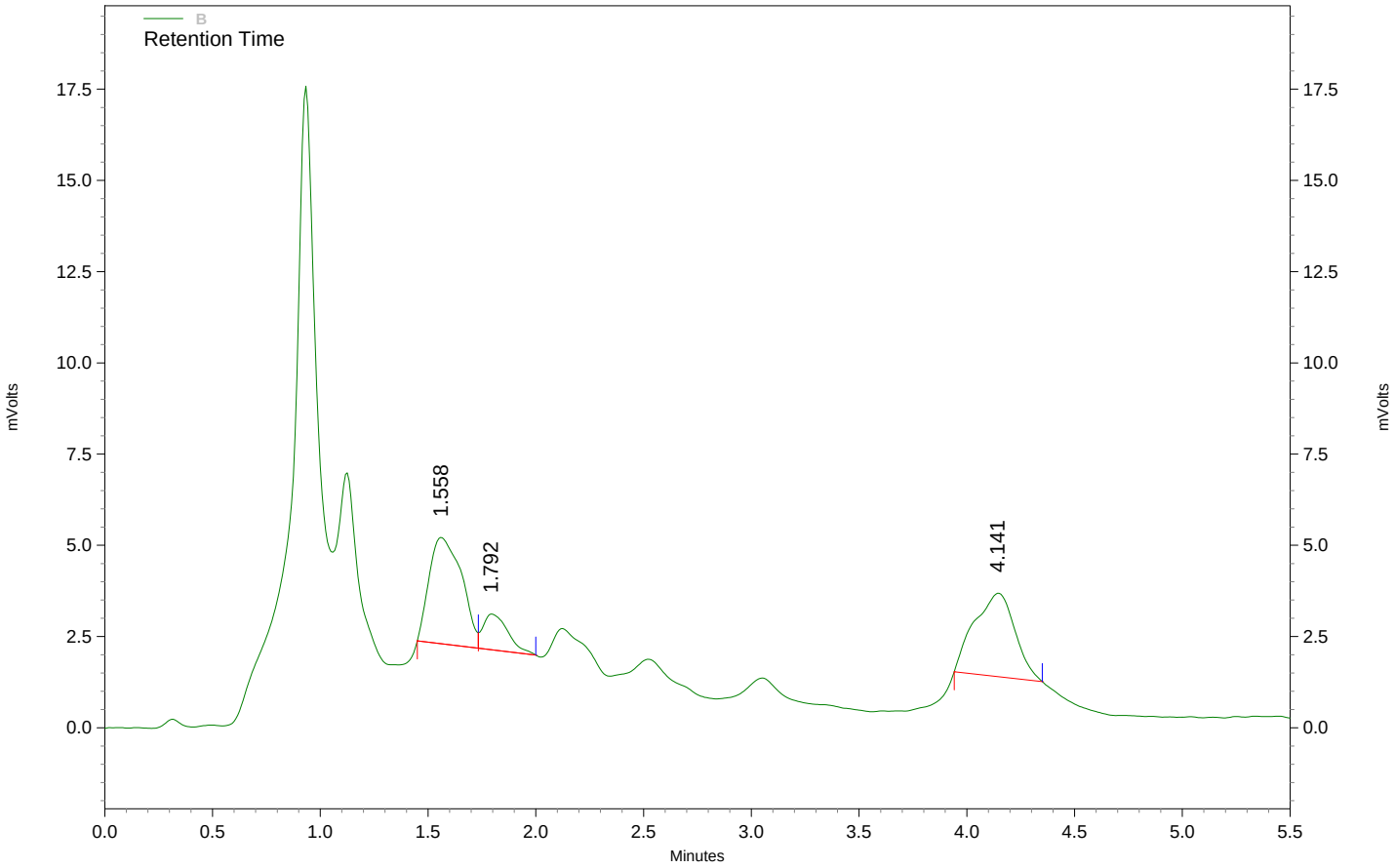
Before Manual Integration

JJY
12/30/2010

RED
12/30/2010

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\NQ\101610NQ-primary\023.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121610NQ-primary.met
Sample ID: 72414,870194,
Acquired: Dec 16, 2010 12:16:07
Data Summary: {Data Description}



B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.558	30695	**0.249**
12-DNB (SSTD)	4.141	29789	**221.030**

After Manual Integration

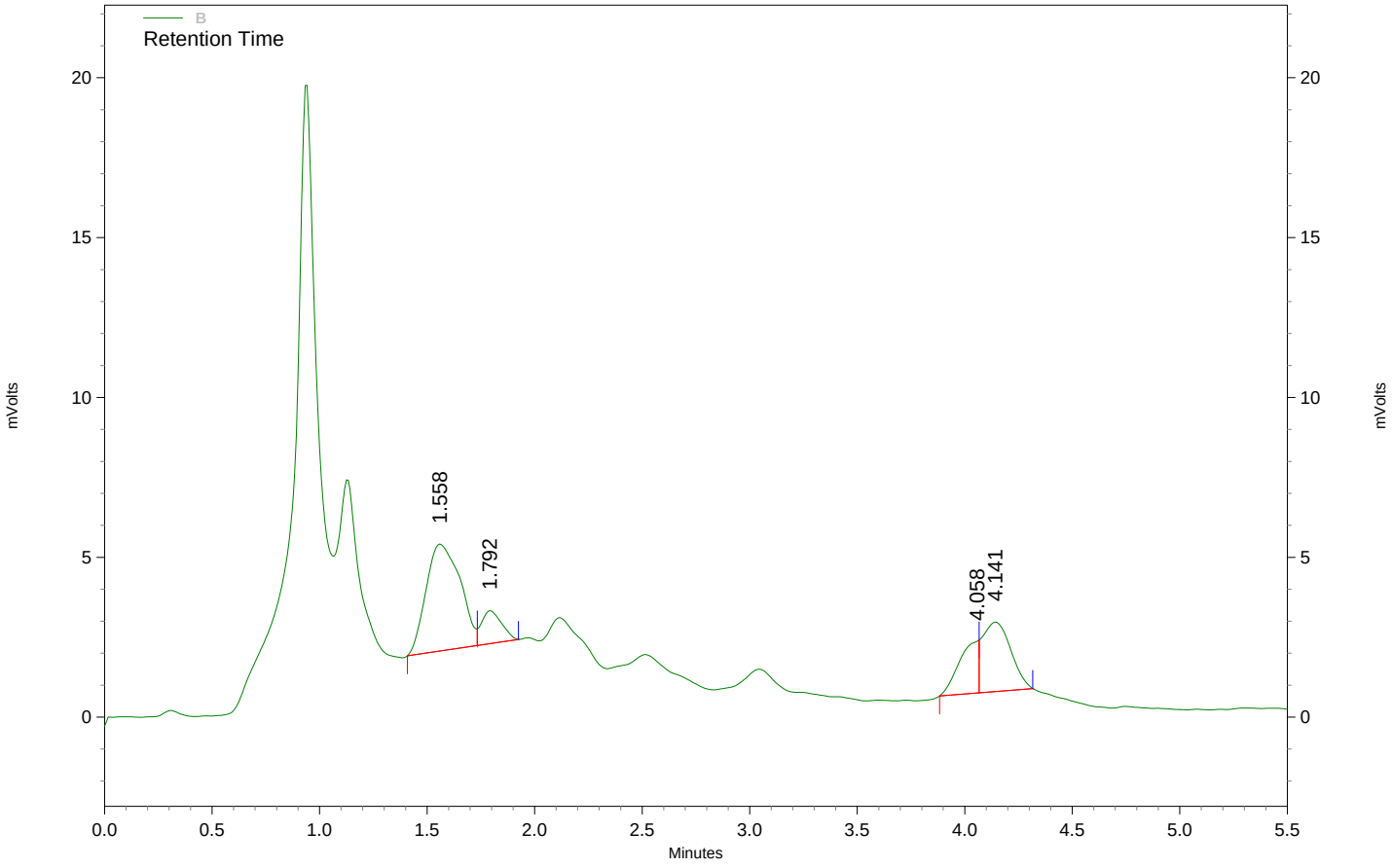
JJY
12/30/2010

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121610NQ-primary\025.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121610NQ-primary.met
Sample ID: 72414,870195,
Acquired: Dec 16, 2010 12:31:44

Data Summary: Reasons #3 and #4 apply to data. The baseline integration was adjusted to follow the chromatogram baseline and a split was added to remove an interfering shoulder from the surrogate peak. RED 12/16/2010



B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.558	36762	**0.300**
12-DNB (SSTD)	4.141	19778	**146.825**

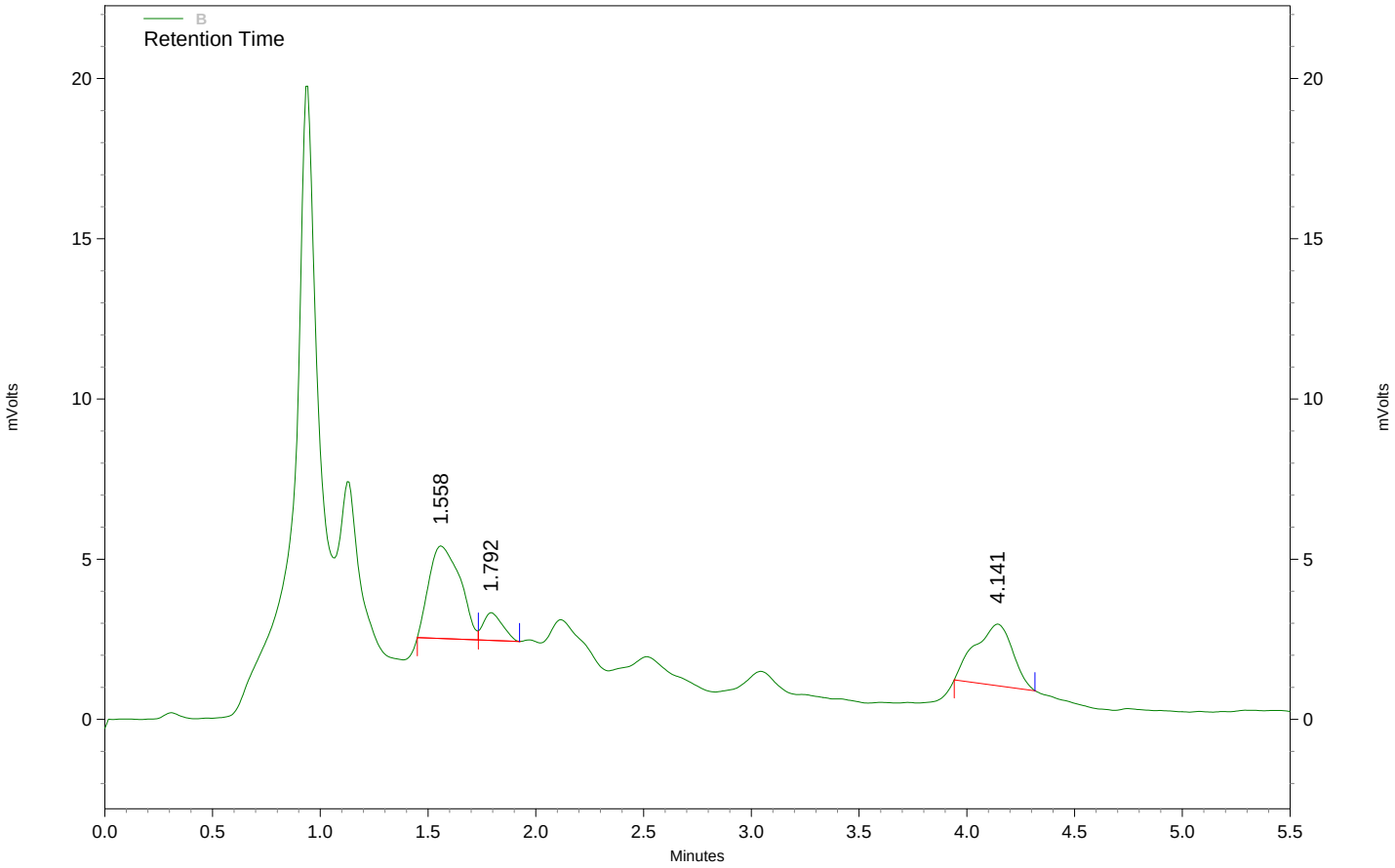
Before Manual Integration

JJY
12/30/2010

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\101610NQ-primary\025.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121610NQ-primary.met
Sample ID: 72414,870195,
Acquired: Dec 16, 2010 12:31:44
Data Summary: {Data Description}



B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.558	29169	**0.236**
12-DNB (SSTD)	4.141	23226	**172.383**

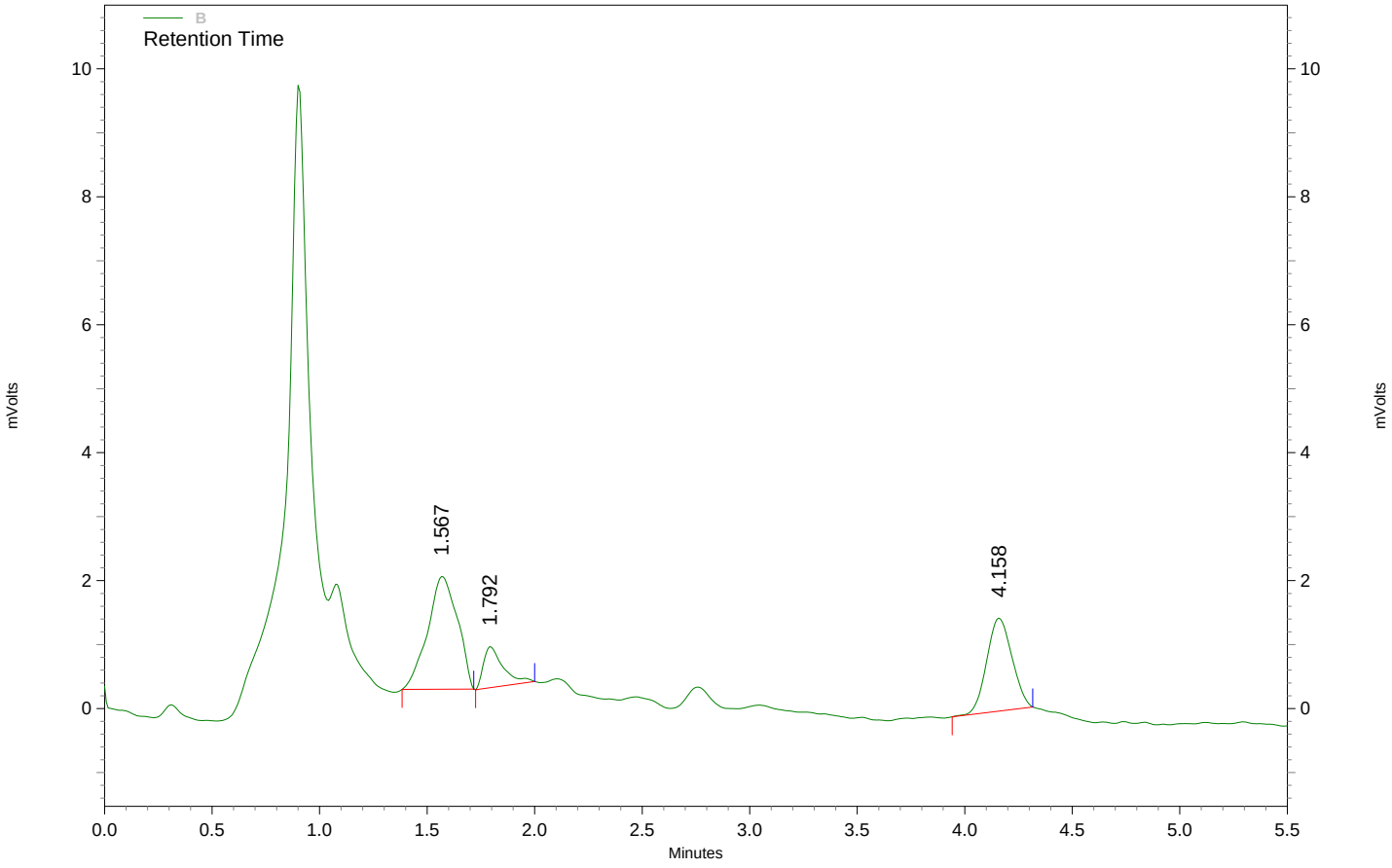
After Manual Integration

JJY
12/30/2010

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121610NQ-primary\026.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121610NQ-primary.met
Sample ID: 72414,870212,
Acquired: Dec 16, 2010 12:39:30
Data Summary: Reason #4 applies to data. The baseline integration was adjusted to follow the chromatogram baseline. RED 12/16/2010



B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.567	17036	**0.133**
12-DNB (SSTD)	4.158	11858	**88.120**

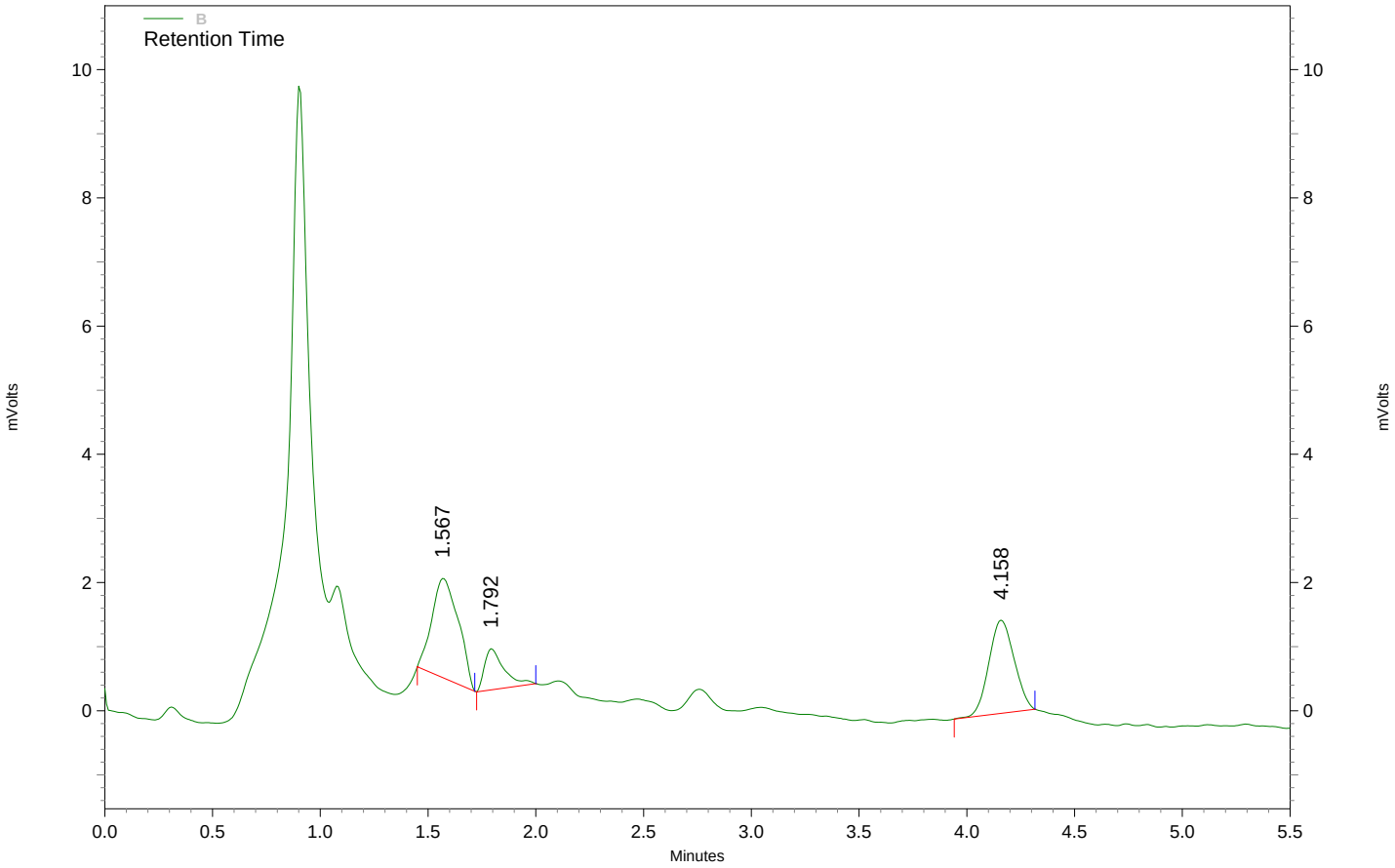
Before Manual Integration

JJY
12/30/2010

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\101610NQ-primary\026.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121610NQ-primary.met
Sample ID: 72414,870212,
Acquired: Dec 16, 2010 12:39:30
Data Summary: {Data Description}



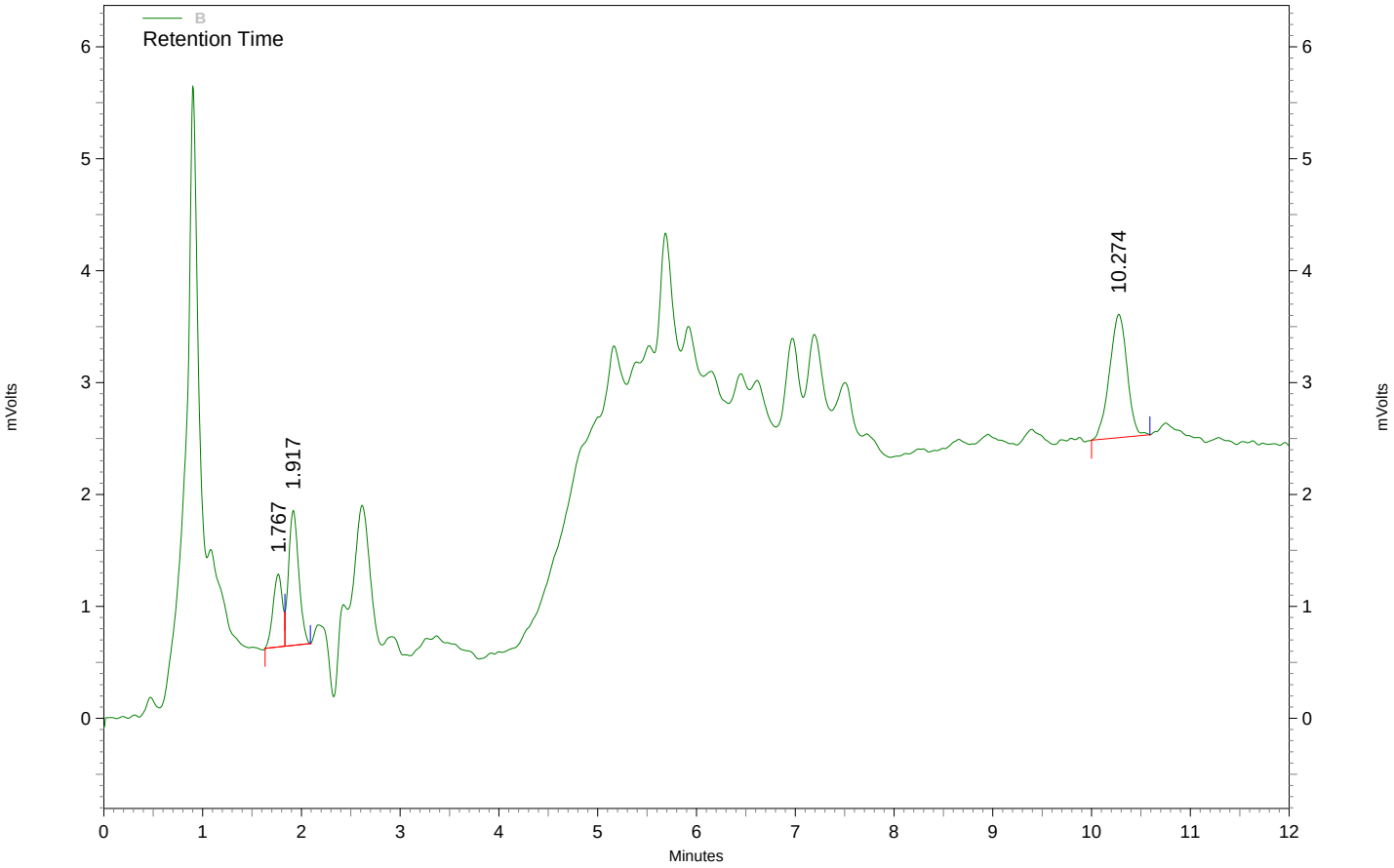
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.567	13349	**0.102**
12-DNB (SSTD)	4.158	11858	**88.120**

RED
12/30/2010

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\013.dat
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
User ID: red
Sample ID: 72412,870201,
Acquired: Dec 16, 2010 22:20:54
Data summary: {Data Description}



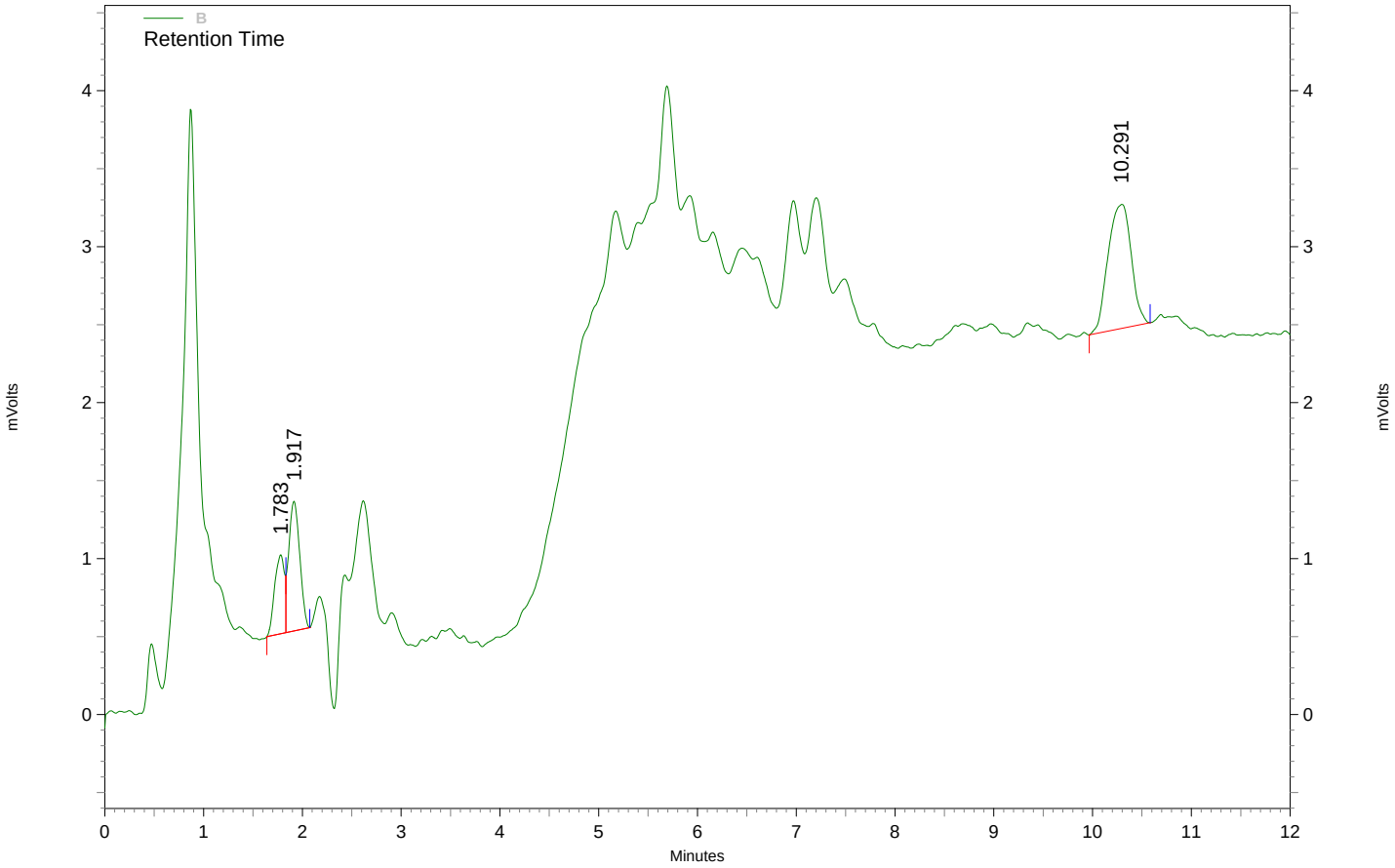
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.917	8636	**0.077**
12-DNB (SSTD)	10.274	13648	**96.899**

RED
12/30/2010

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\018.dat
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
User ID: red
Sample ID: 72412,870203,
Acquired: Dec 16, 2010 23:32:19
Data summary: {Data Description}



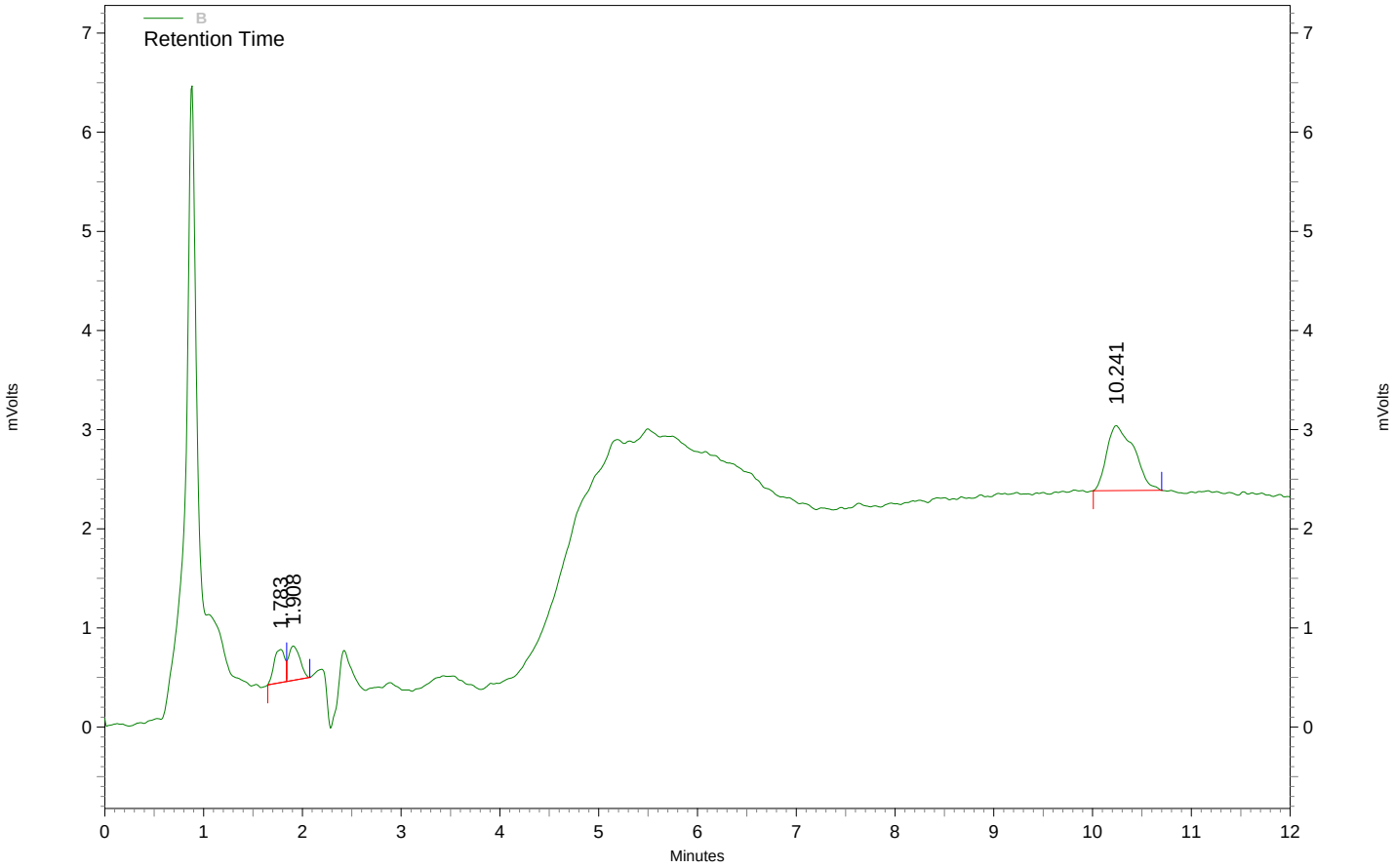
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.917	6456	**0.059**
12-DNB (SSTD)	10.291	12974	**92.069**

RED
12/30/2010

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\026.dat
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
User ID: red
Sample ID: 72414,870189,
Acquired: Dec 17, 2010 01:26:43
Data summary: {Data Description}



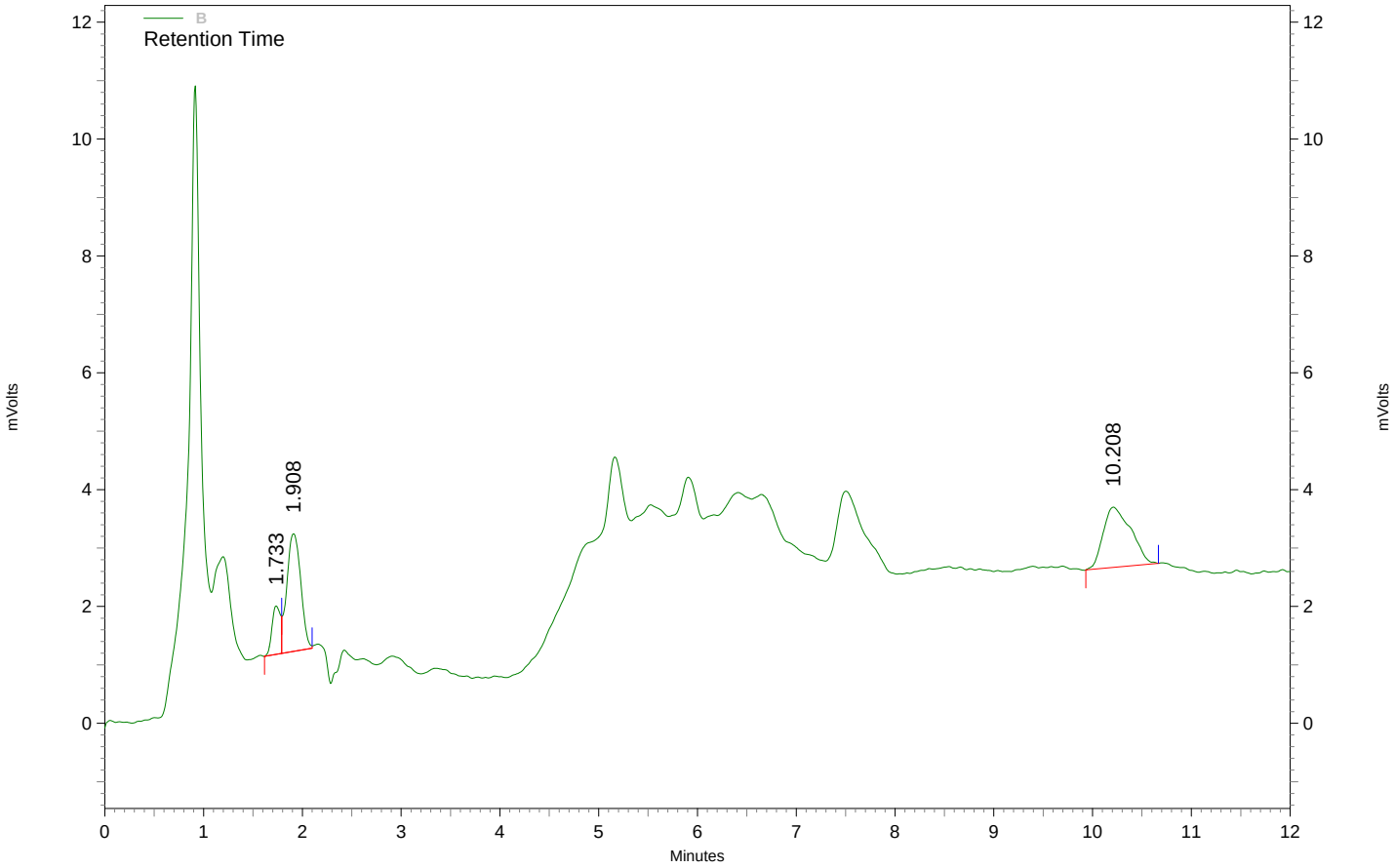
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.908	2770	**0.028**
12-DNB (SSTD)	10.241	12641	**89.683**

RED
12/30/2010

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\031.dat
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
User ID: red
Sample ID: 72414,870194,
Acquired: Dec 17, 2010 02:38:13
Data summary: {Data Description}



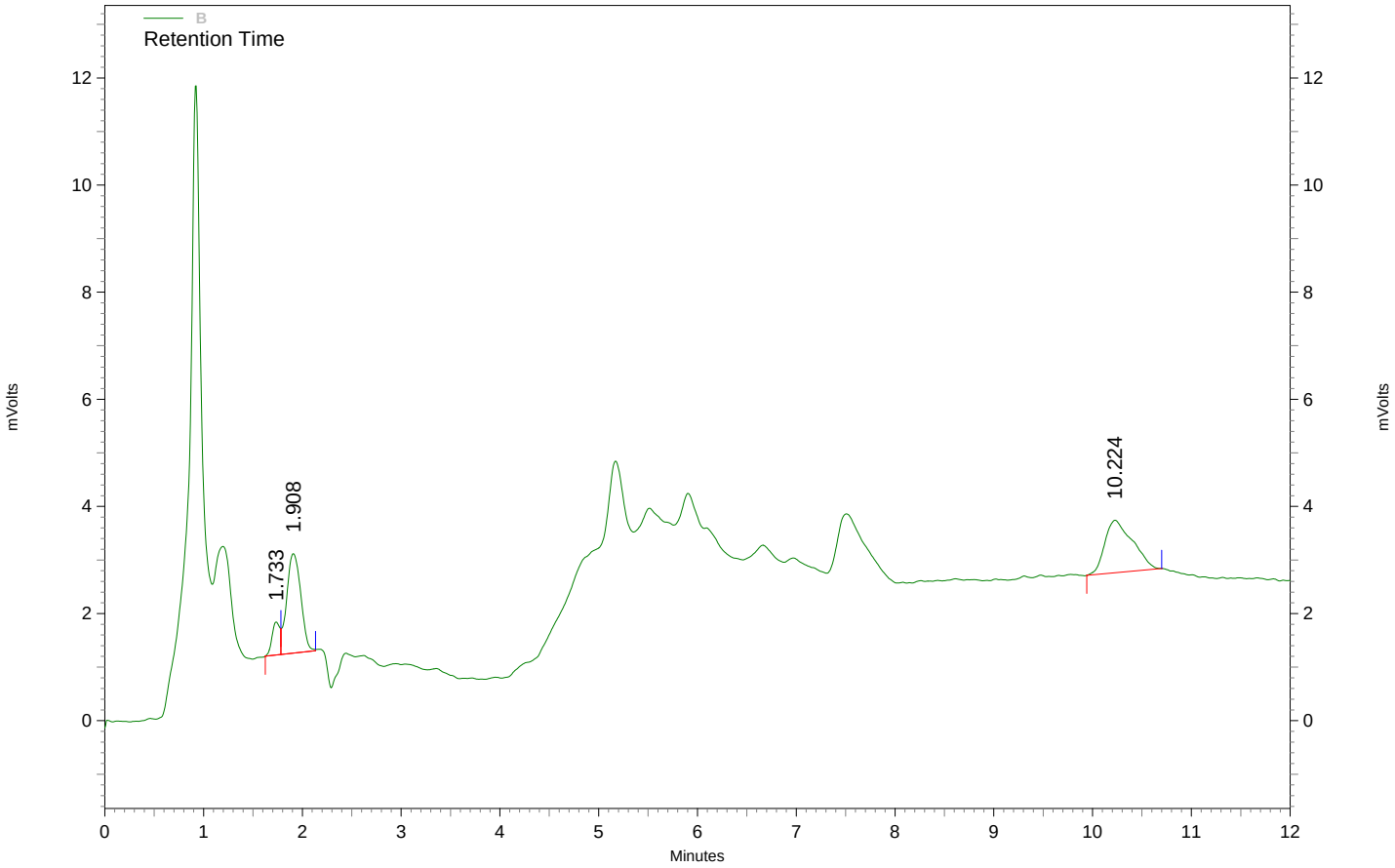
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.908	19771	**0.171**
12-DNB (SSTD)	10.208	20074	**142.942**

RED
12/30/2010

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\033.dat
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
User ID: red
Sample ID: 72414,870195,
Acquired: Dec 17, 2010 03:06:48
Data summary: {Data Description}



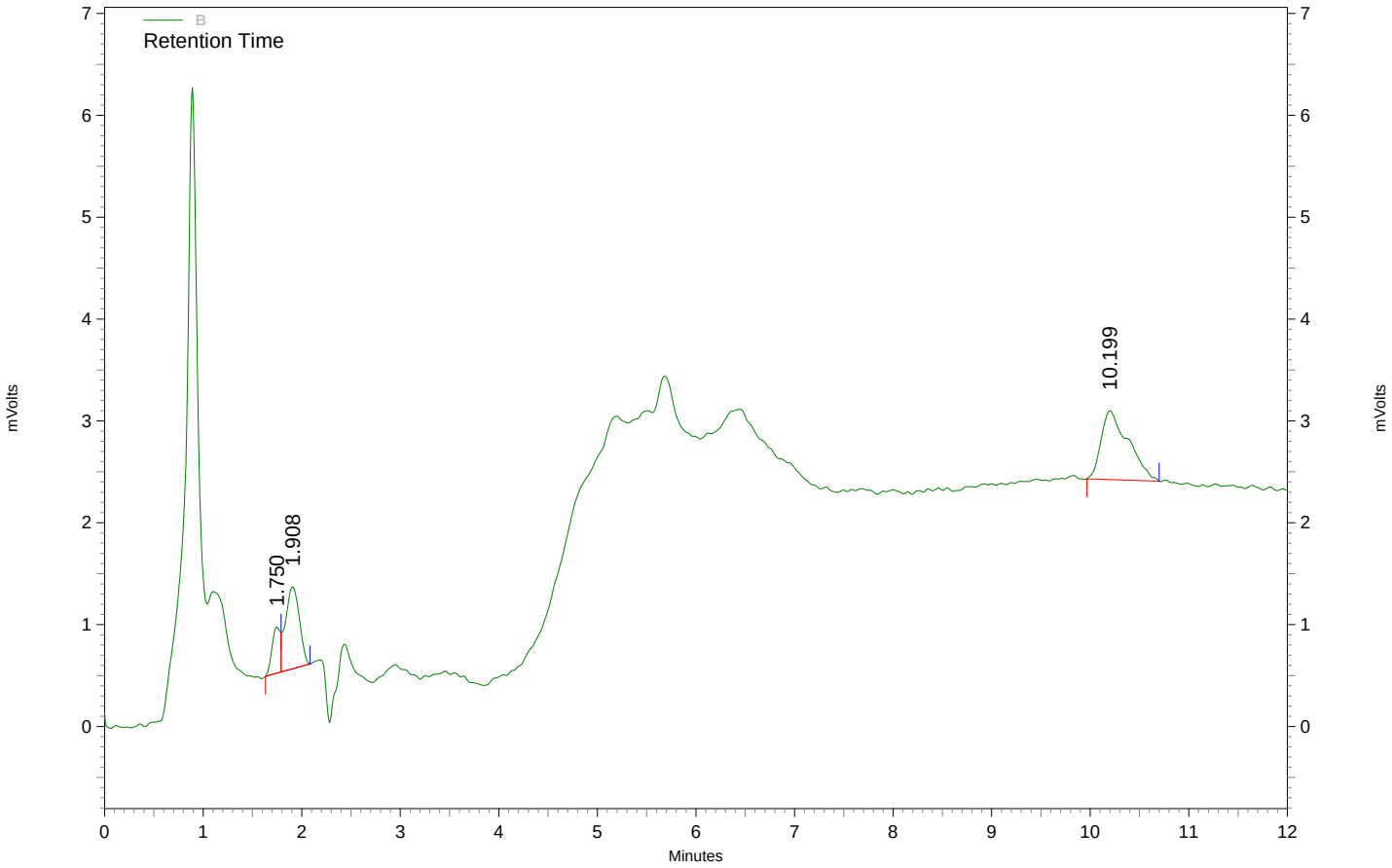
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.908	18493	**0.160**
12-DNB (SSTD)	10.224	19038	**135.519**

RED
12/30/2010

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\034.dat
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
User ID: red
Sample ID: 72414,870212,
Acquired: Dec 17, 2010 03:21:05
Data summary: {Data Description}



B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.908	7929	**0.071**
12-DNB (SSTD)	10.199	12982	**92.127**

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120810\870189.D Vial: 21
Acq On : 8 Dec 10 8:59 pm Operator: RPN
Sample : 72359,870189,1 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 09 13:50:16 2010

RPN
12/09/10

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 09 13:42:46 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Manual Integration: Benzo(b)fluoranthene & Benzo(k) fluoranthene. Reason#3

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.391	152	692232	20.00	ug/mL	0.00
21) Naphthalened8	6.034	136	3217351	20.00	ug/mL	0.00
39) Acenaphthened10	7.545	164	1694604	20.00	ug/mL	0.00
63) Phenanthrd10	8.443	188	2511154	20.00	ug/mL	0.00
75) Chrysene-d12	9.909	240	2220035	20.00	ug/mL	-0.02
85) Perylene-d12	10.872	264	1868829	20.00	ug/mL	-0.01
System Monitoring Compounds						
4) SURR2Flphenol	3.181	112	1208108	70.11	%REC	0.05
Spiked Amount 100.000	Range 20 - 110		Recovery = 70.11%			
7) SURRPhenol-d5	3.968	99	1603669	77.47	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 77.47%			
22) SURRNitrbenzened5	5.082	82	541801	69.78	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 69.78%			
44) SURR2Flbiphenyl	7.059	172	1593049	71.85	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 71.85%			
62) SURR246Tribrphenl	8.059	330	372842	72.77	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 72.77%			
78) SURRTerphenyl-d14	9.250	244	1273902	79.00	ug/mL	-0.01
Spiked Amount 100.000	Range 50 - 135		Recovery = 79.00%			
Target Compounds						Qvalue
2) Ntrsdimeth	2.342	74	6606	0.2688	ug/mL#	1
5) Aniline	4.064	93	12143	0.1820	ug/mL#	42
6) bis2Clethletr	4.064	93	12143	0.2932	ug/mL#	46
8) Phenol	3.976	94	6256	0.1226	ug/mL#	1
12) 12Diclbenz	4.587	146	6624	0.1280	ug/mL	96
13) Benzyl alcoho	4.562	108	324	0.9127	ug/mL#	16
17) Acetophenone	4.886	105	5010	0.0861	ug/mL	94
19) N-Ntrsdinprop	4.903	70	2129	0.0817	ug/mL#	37
20) 3&4Methylphenol	4.886	108	1732	0.0445	ug/mL	85
24) Isophorone	5.462	82	7272	0.0831	ug/mL	82
27) bis2clethoxym	5.772	93	3045	0.0504	ug/mL#	51
30) Benzoic acid	5.712	105	17013	3.4073	ug/mL	80
31) Naphthalene	6.056	128	43770	0.2666	ug/mL	93
32) 4-Cl-aniline	6.059	127	5844	0.0949	ug/mL	54
36) 4Cl3methylphe	6.619	107	984	0.0245	ug/mL#	28
37) 2Methylnaphth	6.747	141	32205	0.3514	ug/mL	87
38) 1Methylnaphth	6.832	141	23480	0.2468	ug/mL	82
43) 245Triclpheno	7.017	196	1126	0.0357	ug/mL#	69
45) 2Clnaphthalen	7.150	162	3914	0.0400	ug/mL	81
46) 2Nitroaniline	7.227	65	2547	0.1114	ug/mL#	51
47) Acnaphthylene	7.446	152	54725	0.3263	ug/mL	99
48) Dimethylphtha	7.366	163	4355	0.0379	ug/mL	97
49) 26Dinitrotolu	7.400	165	2764	0.1111	ug/mL	73
50) Acenaphthene	7.565	153	10286	0.0976	ug/mL	96
51) 3Nitroaniline	7.505	138	1965	0.0738	ug/mL#	1
52) 24Dinitphenol	7.792	184	691	2.4174	ug/mL#	70
53) Dibenzofuran	7.682	168	20147	0.1468	ug/mL	88
55) 4-Nitrophenol	7.616	109	1314	0.1540	ug/mL#	1
58) Fluorene	7.906	166	26170	0.2366	ug/mL	99
60) Diethylphthal	7.826	149	27181	0.2341	ug/mL	85
61) 4Nitroaniline	7.932	138	1229	0.0470	ug/mL#	62
65) Ntrsdiphlam&Diphlam	8.059	169	15996	0.2145	ug/mL#	32
66) Azobenz&12Diphlhyd	8.005	182	17698	0.6281	ug/mL#	1
70) Phenanthrene	8.454	178	418017	3.1394	ug/mL	99

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120810\870189.D Vial: 21
Acq On : 8 Dec 10 8:59 pm Operator: RPN
Sample : 72359,870189,1 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 09 13:50:16 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 09 13:42:46 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
71) Anthracene	8.477	178	127893	0.9474 ug/mL	97
72) Carbazole	8.551	167	29759	0.2602 ug/mL	95
73) Dinbtylphthal	8.699	149	135473	0.8774 ug/mL	99
74) Fluoranthene	9.051	202	944683	7.0306 ug/mL	97
76) Benzidine	9.250	184	12870	Below Cal	83
77) Pyrene	9.179	202	733436	5.5400 ug/mL	98
79) Btylbzylphth	9.528	149	4288	0.0666 ug/mL	70
80) 33Diclbnzidin	9.929	252	3023	Below Cal #	25
81) B[a]anthracen	9.901	228	440717	3.5696 ug/mL	97
82) Chrysene	9.923	228	413921	3.4991 ug/mL	97
83) bis2Ethlhxlph	9.881	149	203190	2.1719 ug/mL	99
84) Dinoctylphthl	10.333	149	5732	0.0345 ug/mL	51
86) B[b]fluoranth	10.600	252	477703m	4.3396 ug/mL	
87) B[k]fluoranth	10.614	252	168999m	1.6253 ug/mL	
88) Benz[a]pyrene	10.830	252	279089	2.7777 ug/mL	97
89) Indeno-pyrene	11.736	276	149335	1.4638 ug/mL	98
90) Dib[ah]anthr	11.745	278	40823	0.4932 ug/mL	90
91) B[ghi]perylen	11.995	276	123816	1.4611 ug/mL	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120810\870189.D Vial: 21
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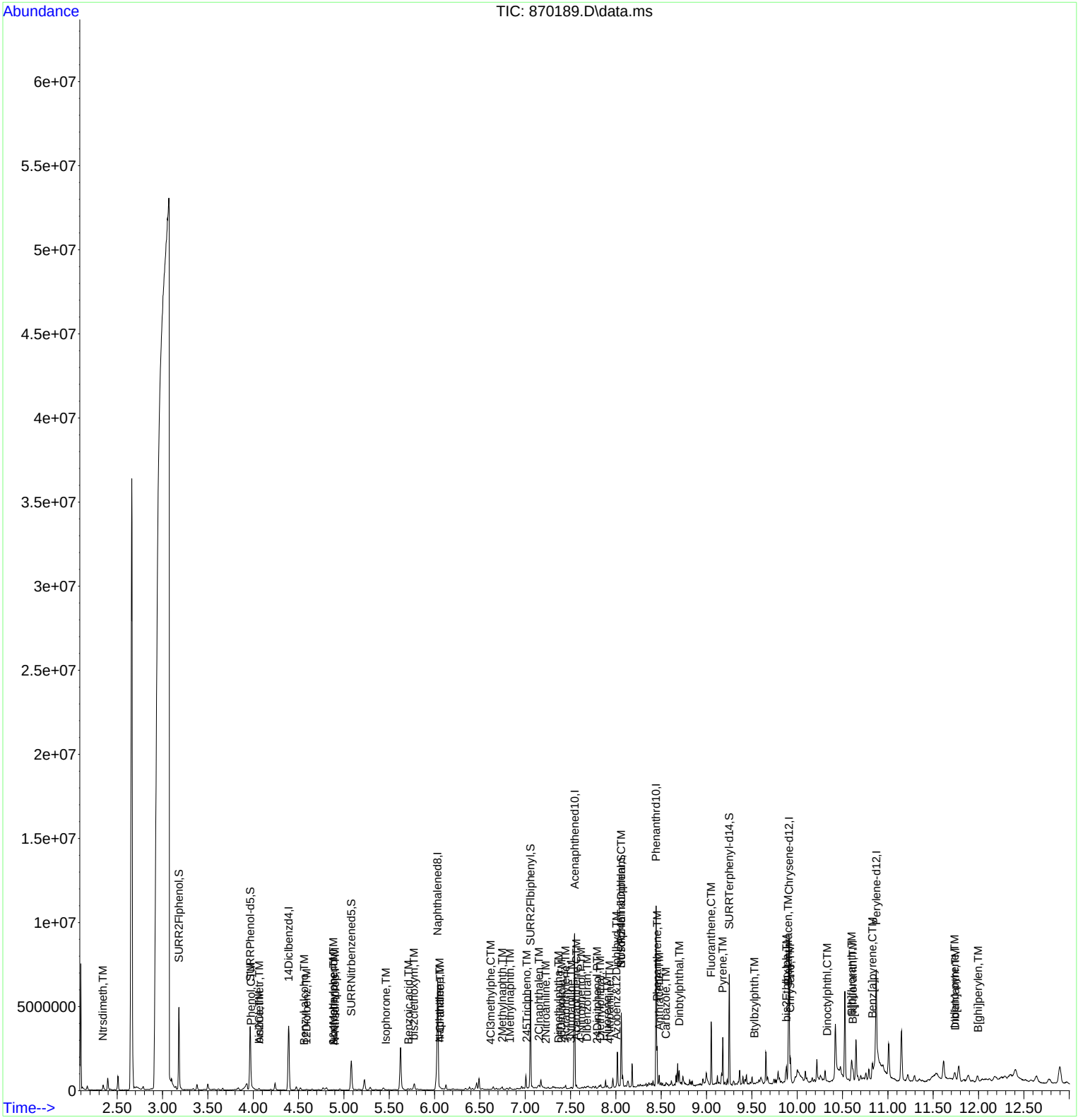
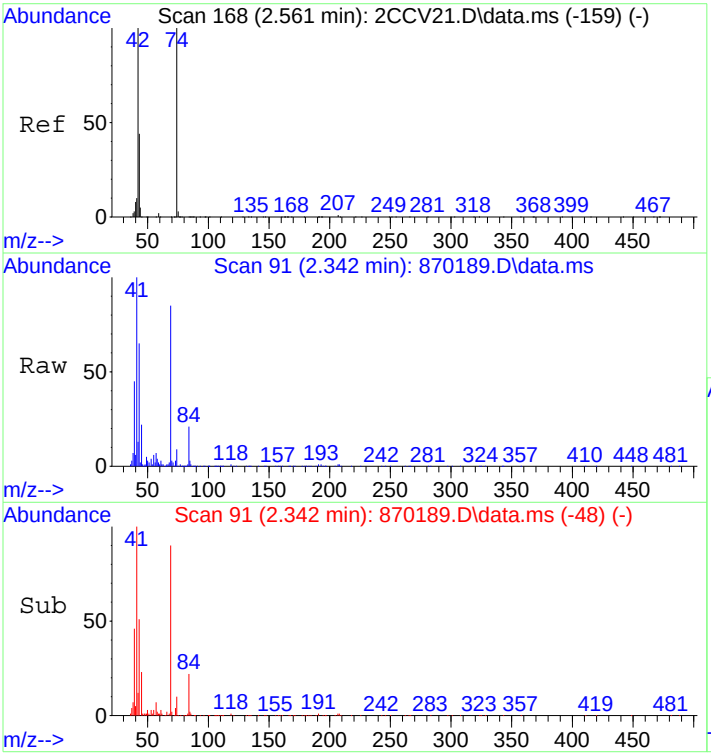
DataAcq Meth:2S120210.M

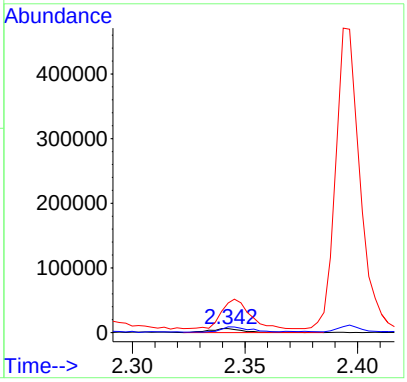


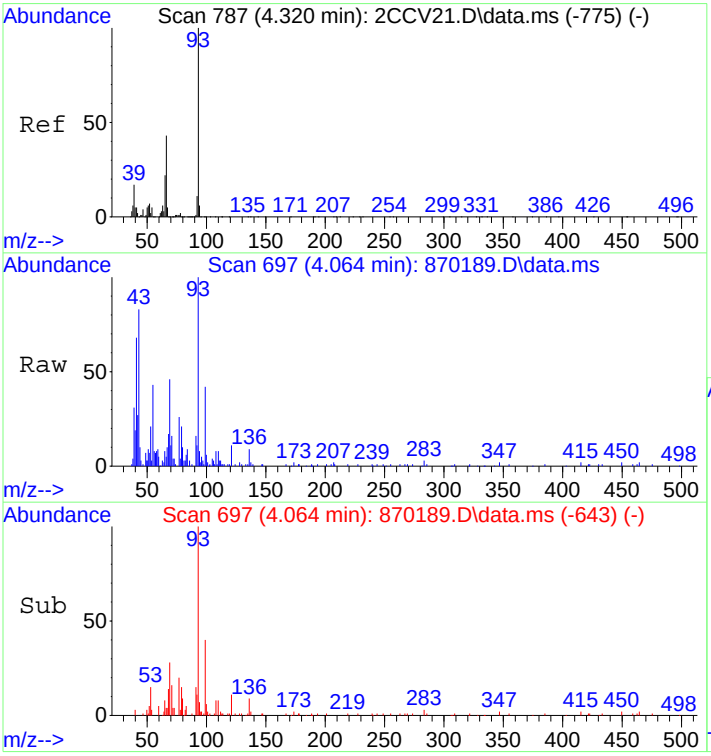


#2
Ntrsdimeth
Concen: 0.27 ug/mL
RT: 2.342 min Scan# 91
Delta R.T. 0.003 min
Lab File: 870189.D
Acq: 8 Dec 10 8:59 pm

Tgt Ion: 74 Resp: 6606

Ion	Ratio	Lower	Upper
74	100		
42	131.4	82.4	142.4
43	646.8	17.7	77.7#

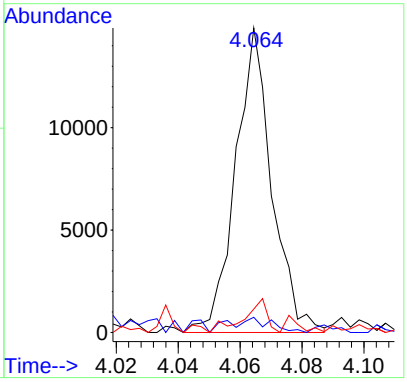


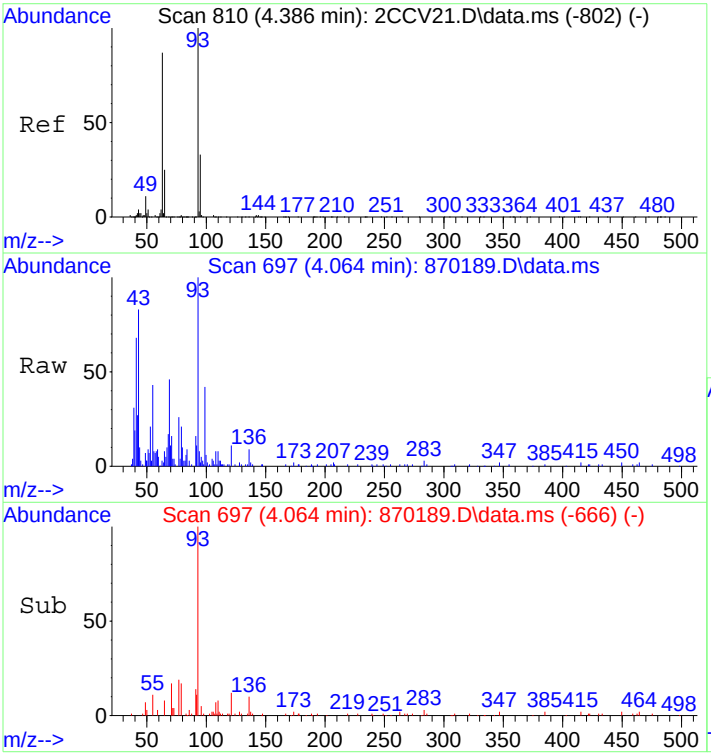


#5
Aniline
Concen: 0.18 ug/mL
RT: 4.064 min Scan# 697
Delta R.T. 0.040 min
Lab File: 870189.D
Acq: 8 Dec 10 8:59 pm

Tgt Ion: 93 Resp: 12143

Ion	Ratio	Lower	Upper
93	100		
66	0.0	10.4	70.4#
65	0.0	0.0	51.6

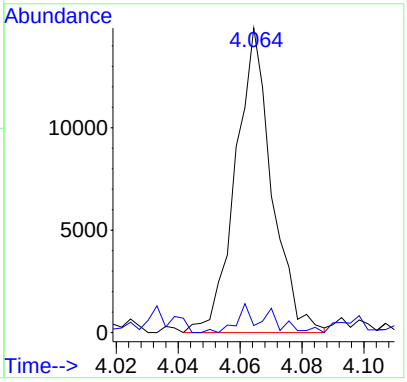


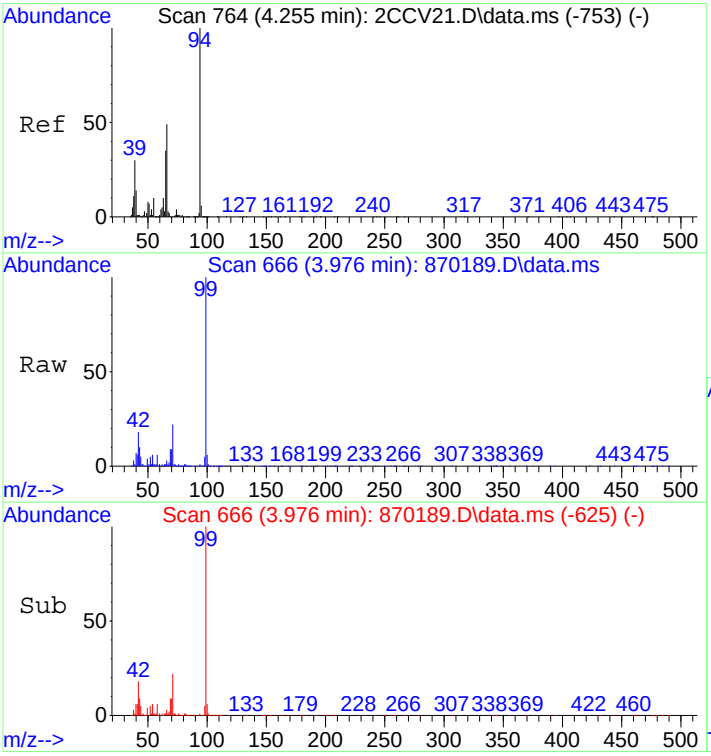


#6
bis2Clethletr
Concen: 0.29 ug/mL
RT: 4.064 min Scan# 697
Delta R.T. -0.026 min
Lab File: 870189.D
Acq: 8 Dec 10 8:59 pm

Tgt Ion: 93 Resp: 12143

Ion	Ratio	Lower	Upper
93	100		
95	2.3	2.4	62.4#

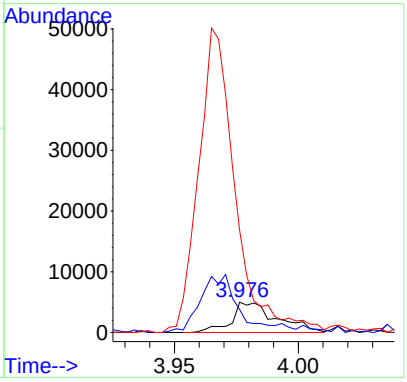


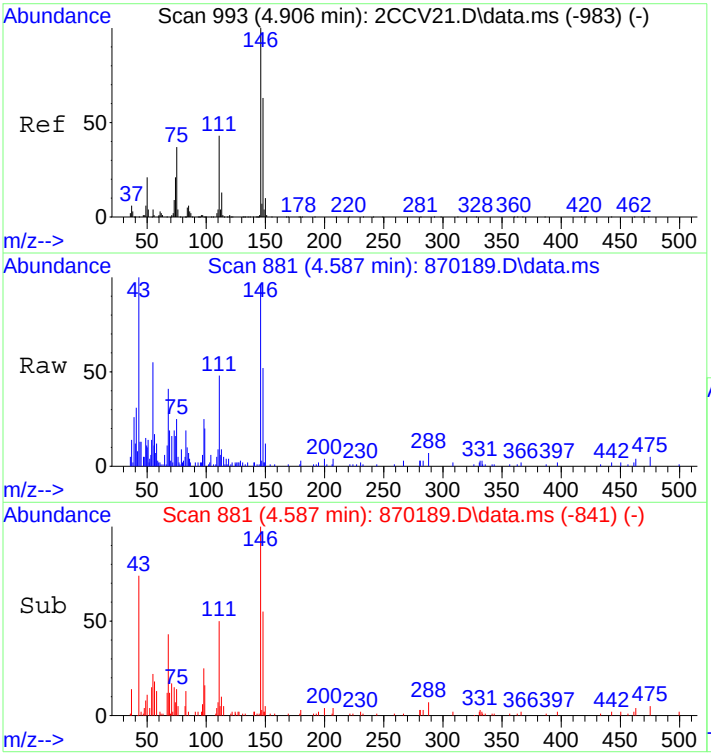


#8
Phenol
Concen: 0.12 ug/mL
RT: 3.976 min Scan# 666
Delta R.T. 0.003 min
Lab File: 870189.D
Acq: 8 Dec 10 8:59 pm

Tgt Ion: 94 Resp: 6256

Ion	Ratio	Lower	Upper
94	100		
65	67.1	1.0	61.0#
66	327.7	8.1	68.1#

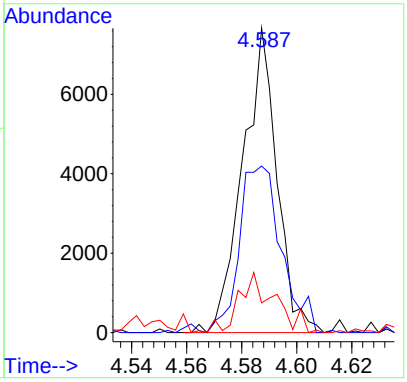


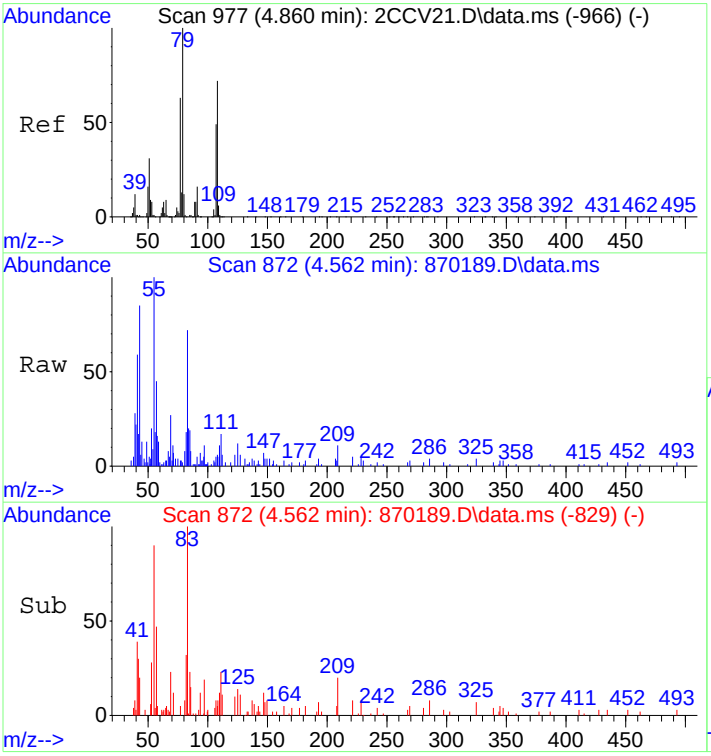


#12
12Diclbenz
Concen: 0.13 ug/mL
RT: 4.587 min Scan# 881
Delta R.T. -0.000 min
Lab File: 870189.D
Acq: 8 Dec 10 8:59 pm

Tgt Ion:146 Resp: 6624

Ion	Ratio	Lower	Upper
146	100		
148	57.0	29.2	89.2
113	9.8	0.0	42.9

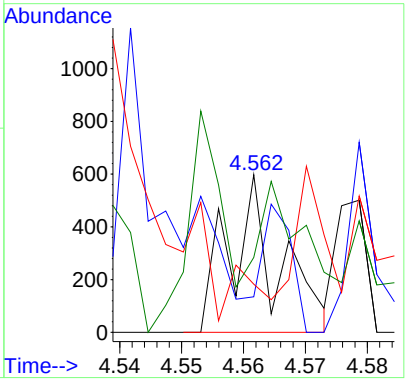


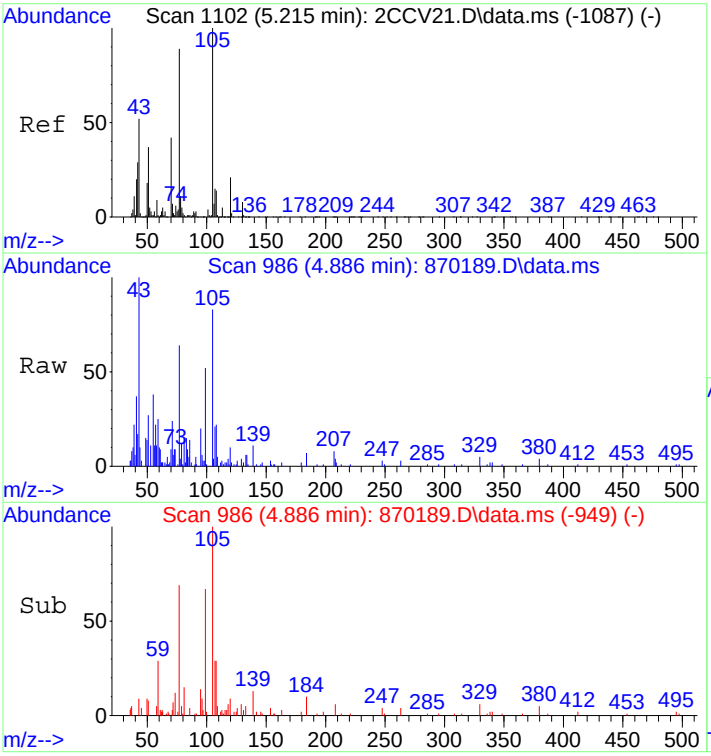


#13
Benzyl alcoho
Concen: 0.91 ug/mL
RT: 4.562 min Scan# 872
Delta R.T. 0.008 min
Lab File: 870189.D
Acq: 8 Dec 10 8:59 pm

Tgt Ion:108 Resp: 324

Ion	Ratio	Lower	Upper
108	100		
79	22.6	104.2	164.2#
77	9.2	55.1	115.1#
91	9.2	0.0	50.3

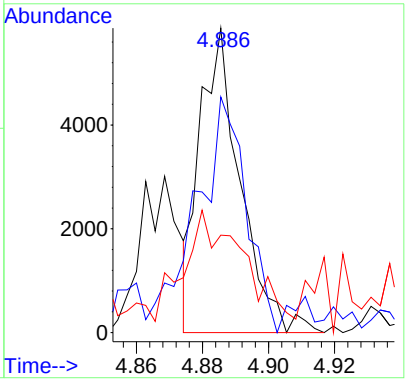


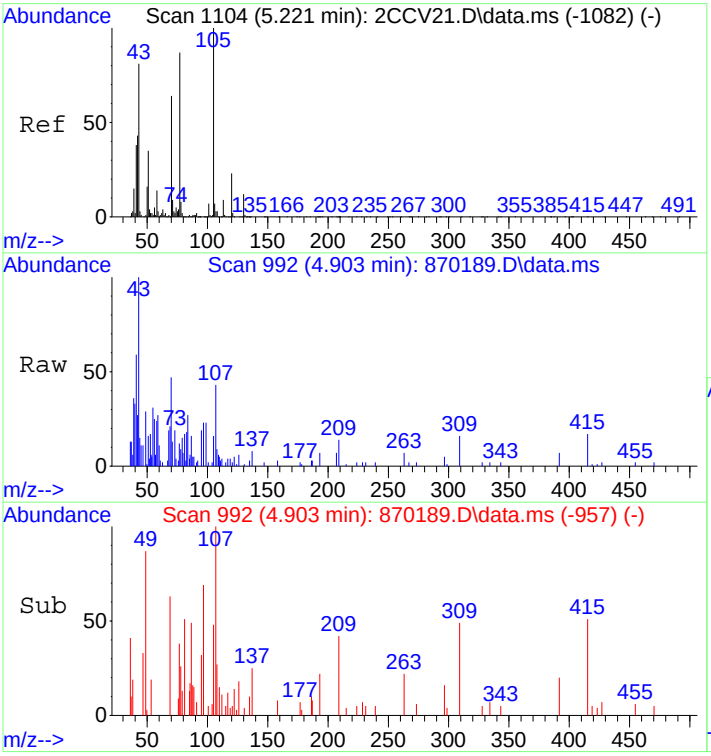


#17
Acetophenone
Concen: 0.09 ug/mL
RT: 4.886 min Scan# 986
Delta R.T. -0.009 min
Lab File: 870189.D
Acq: 8 Dec 10 8:59 pm

Tgt Ion:105 Resp: 5010

Ion	Ratio	Lower	Upper
105	100		
77	95.3	72.2	132.2
51	51.6	18.8	78.8

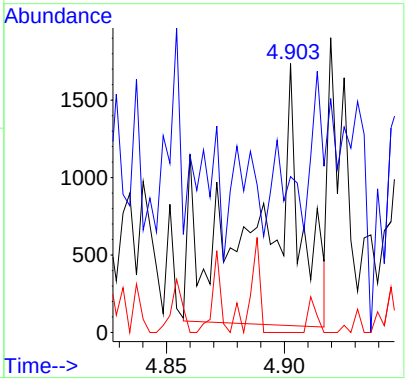


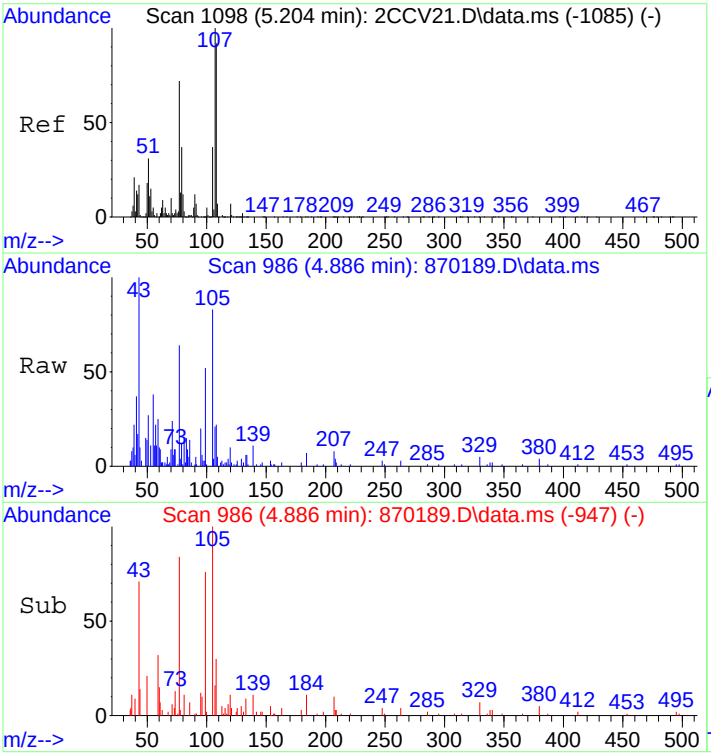


#19
N-Ntrsdinprop
Concen: 0.08 ug/mL
RT: 4.903 min Scan# 992
Delta R.T. -0.000 min
Lab File: 870189.D
Acq: 8 Dec 10 8:59 pm

Tgt Ion: 70 Resp: 2129

Ion	Ratio	Lower	Upper
70	100		
42	22.7	54.3	114.3#
113	0.0	0.0	43.5

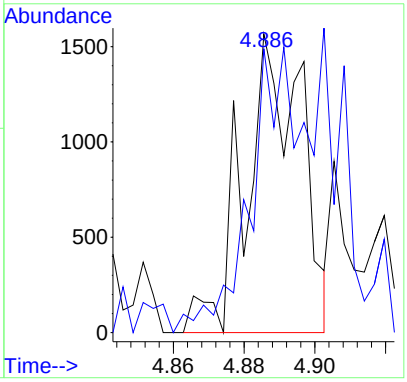


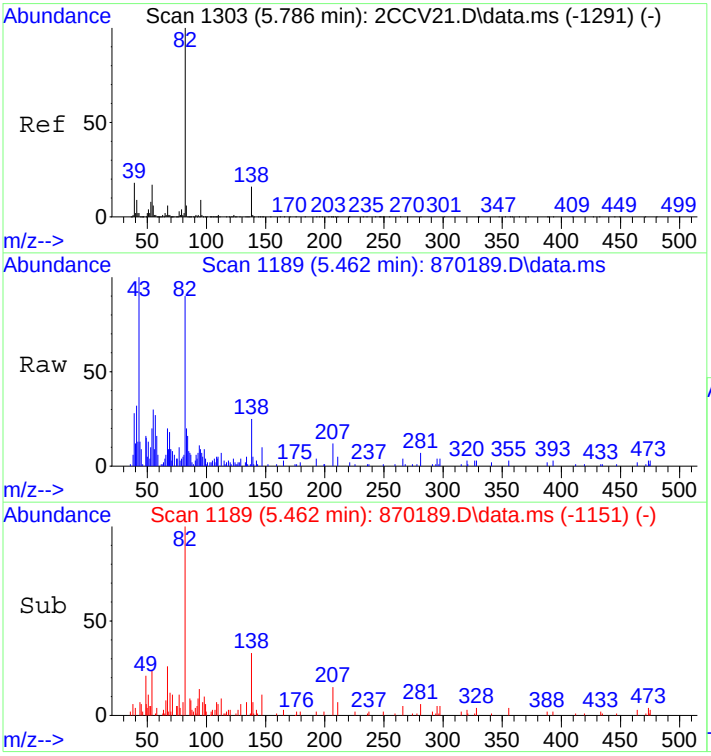


#20
3&4Methylphenol
Concen: 0.04 ug/mL
RT: 4.886 min Scan# 986
Delta R.T. -0.009 min
Lab File: 870189.D
Acq: 8 Dec 10 8:59 pm

Tgt Ion:108 Resp: 1732

Ion	Ratio	Lower	Upper
108	100		
107	89.1	74.6	134.6

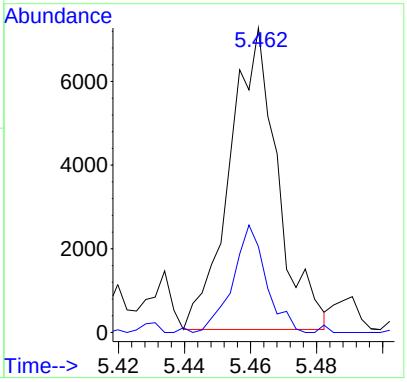


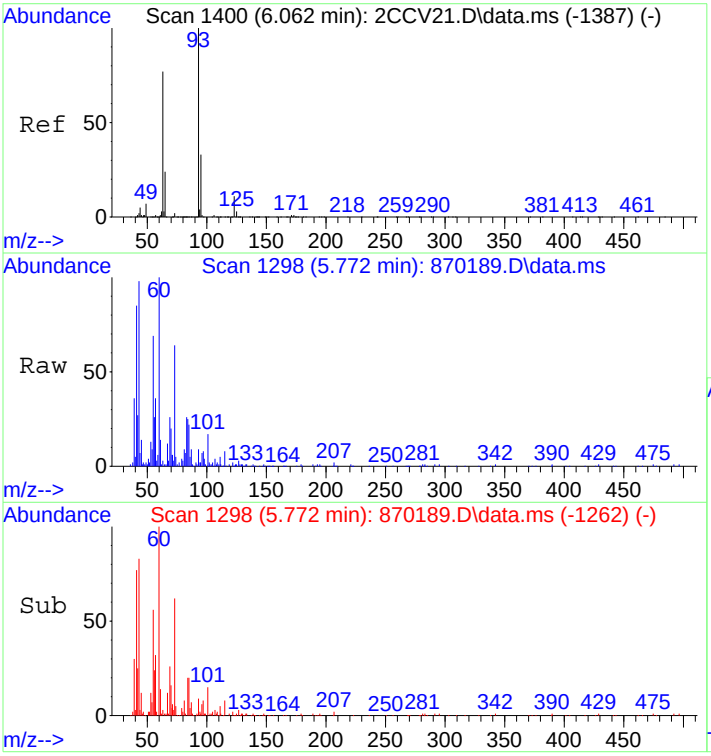


#24
Isophorone
Concen: 0.08 ug/mL
RT: 5.462 min Scan# 1189
Delta R.T. -0.011 min
Lab File: 870189.D
Acq: 8 Dec 10 8:59 pm

Tgt Ion: 82 Resp: 7272

Ion	Ratio	Lower	Upper
82	100		
138	26.9	0.0	48.8

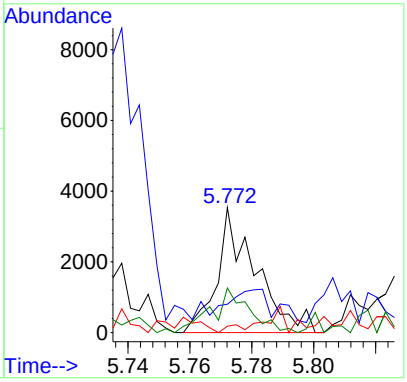


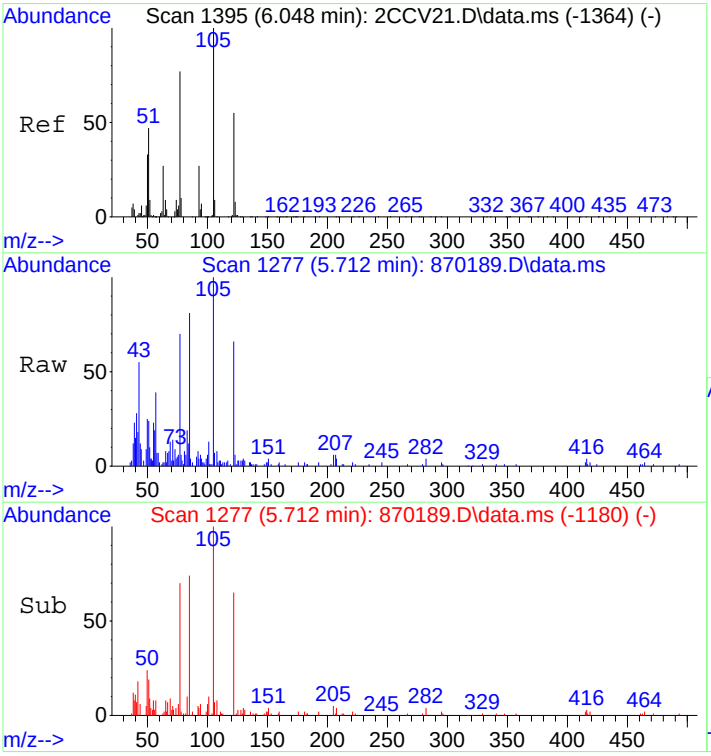


#27
bis2clethoxym
Concen: 0.05 ug/mL
RT: 5.772 min Scan# 1298
Delta R.T. -0.011 min
Lab File: 870189.D
Acq: 8 Dec 10 8:59 pm

Tgt Ion: 93 Resp: 3045

Ion	Ratio	Lower	Upper
93	100		
95	0.0	1.9	61.9#
123	0.0	0.0	42.6
63	35.7	46.9	106.9#

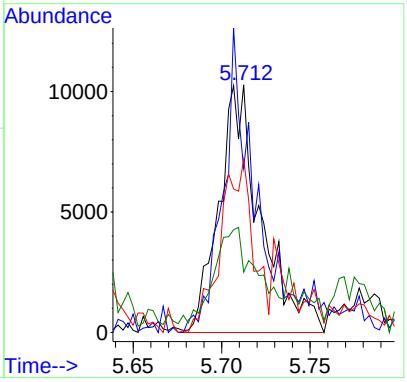


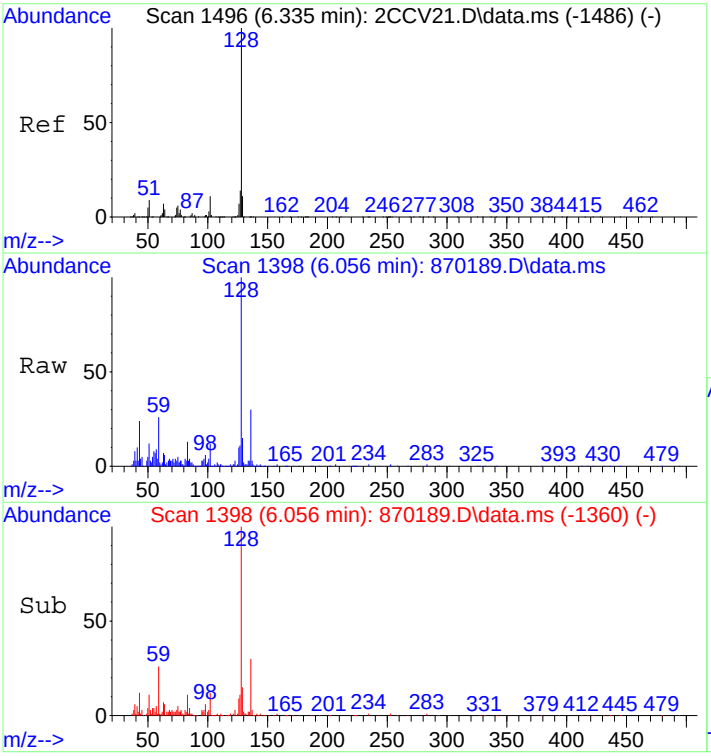


#30
Benzoic acid
Concen: 3.41 ug/mL
RT: 5.712 min Scan# 1277
Delta R.T. 0.000 min
Lab File: 870189.D
Acq: 8 Dec 10 8:59 pm

Tgt Ion:105 Resp: 17013

Ion	Ratio	Lower	Upper
105	100		
122	66.8	54.1	114.1
77	68.7	45.9	105.9
51	19.7	17.6	77.6

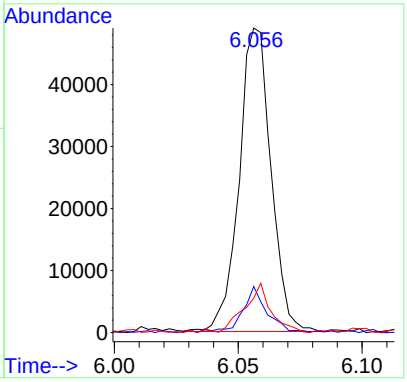


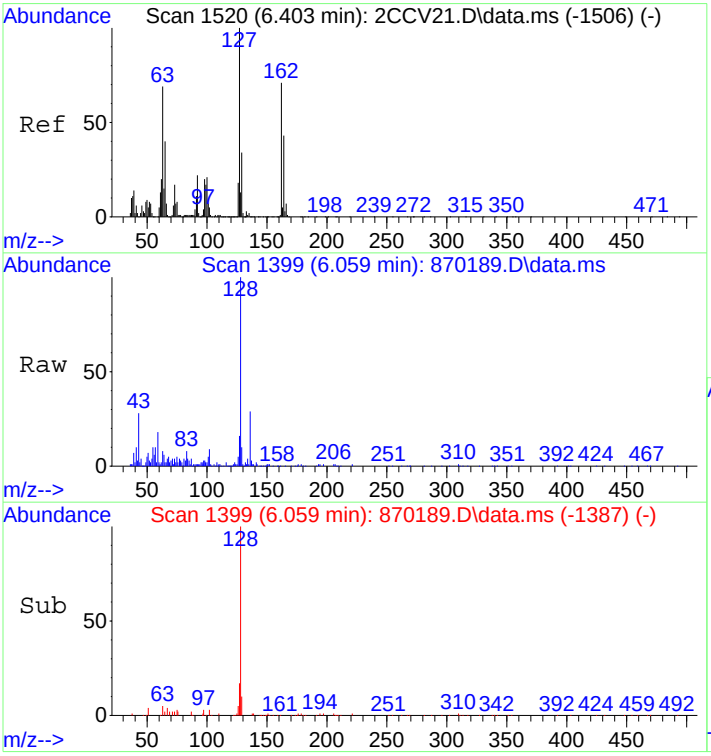


#31
Naphthalene
Concen: 0.27 ug/mL
RT: 6.056 min Scan# 1398
Delta R.T. -0.006 min
Lab File: 870189.D
Acq: 8 Dec 10 8:59 pm

Tgt Ion:128 Resp: 43770

Ion	Ratio	Lower	Upper
128	100		
129	15.0	0.0	40.3
127	11.4	0.0	41.9

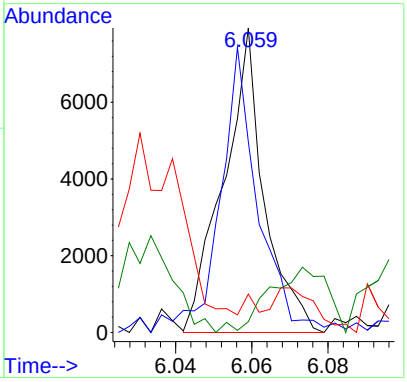


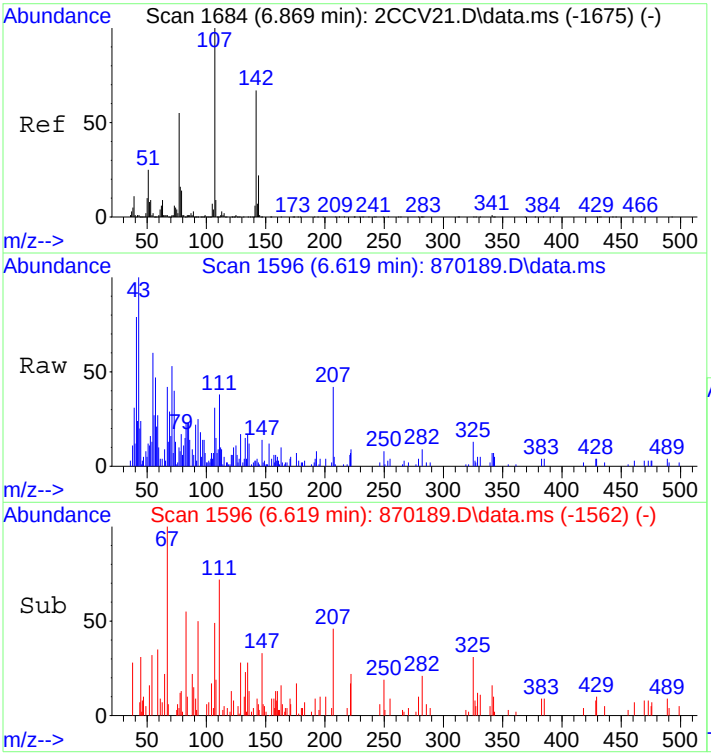


#32
4-Cl-aniline
Concen: 0.09 ug/mL
RT: 6.059 min Scan# 1399
Delta R.T. -0.080 min
Lab File: 870189.D
Acq: 8 Dec 10 8:59 pm

Tgt Ion:127 Resp: 5844

Ion	Ratio	Lower	Upper
127	100		
129	61.0	1.8	61.8
65	8.3	1.6	61.6
92	0.0	0.0	48.2

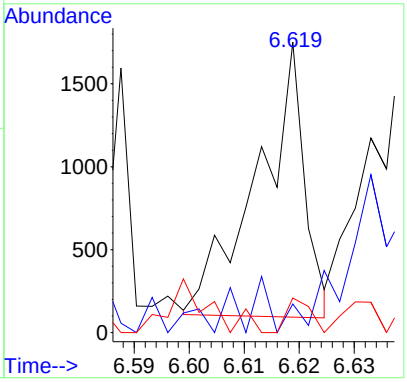


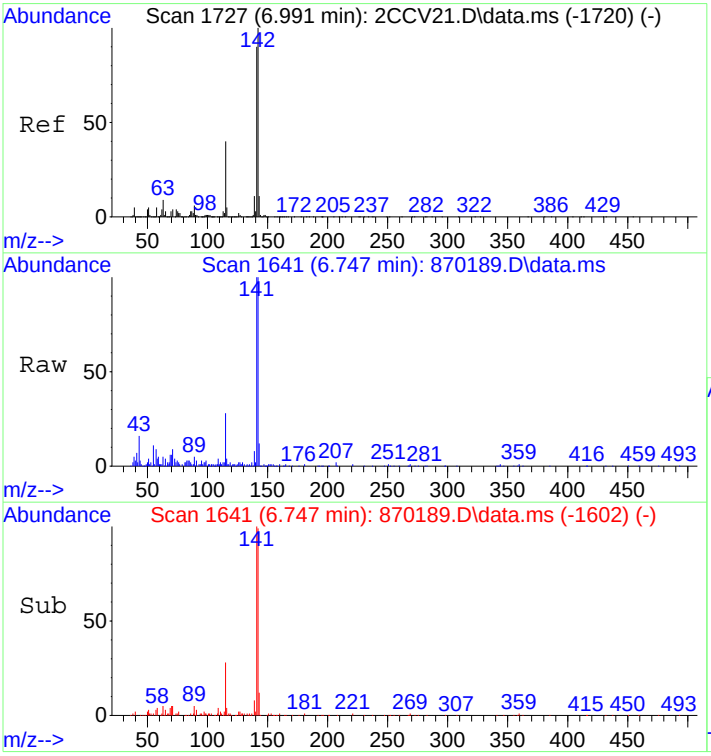


#36
4Cl3methylphe
Concen: 0.02 ug/mL
RT: 6.619 min Scan# 1596
Delta R.T. -0.017 min
Lab File: 870189.D
Acq: 8 Dec 10 8:59 pm

Tgt Ion:107 Resp: 984

Ion	Ratio	Lower	Upper
107	100		
142	3.4	50.0	110.0#
144	12.9	0.0	56.8

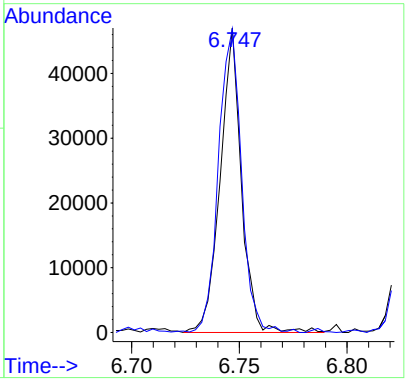


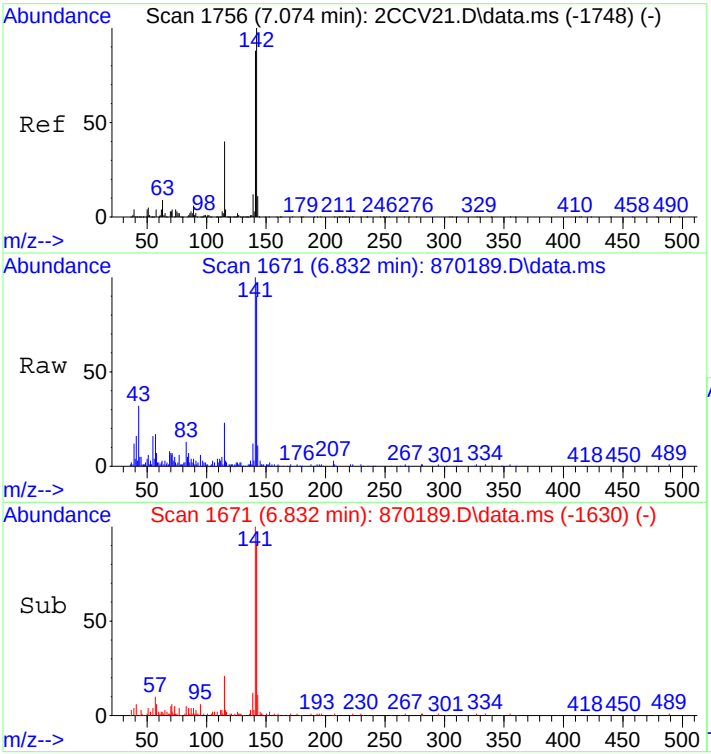


#37
2Methylnaphth
Concen: 0.35 ug/mL
RT: 6.747 min Scan# 1641
Delta R.T. -0.003 min
Lab File: 870189.D
Acq: 8 Dec 10 8:59 pm

Tgt Ion:141 Resp: 32205

Ion	Ratio	Lower	Upper
141	100		
142	99.4	83.7	143.7

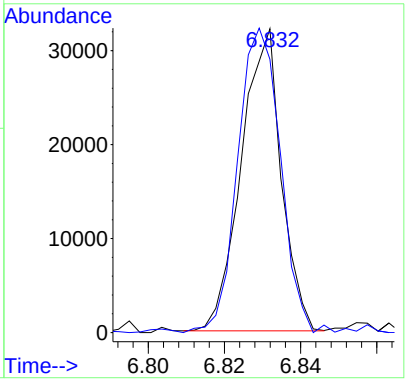


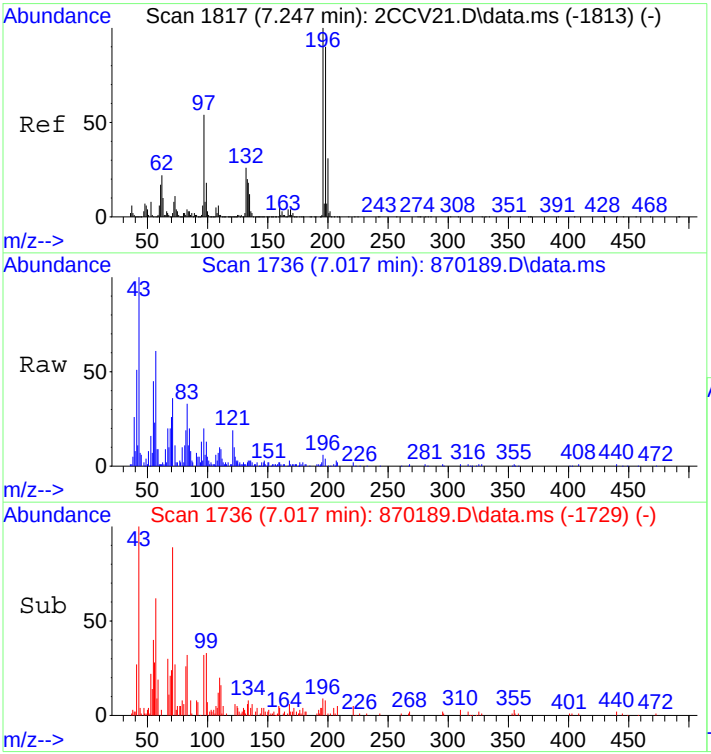


#38
1Methylnaphth
Concen: 0.25 ug/mL
RT: 6.832 min Scan# 1671
Delta R.T. -0.003 min
Lab File: 870189.D
Acq: 8 Dec 10 8:59 pm

Tgt Ion:141 Resp: 23480

Ion	Ratio	Lower	Upper
141	100		
142	90.5	79.5	139.5

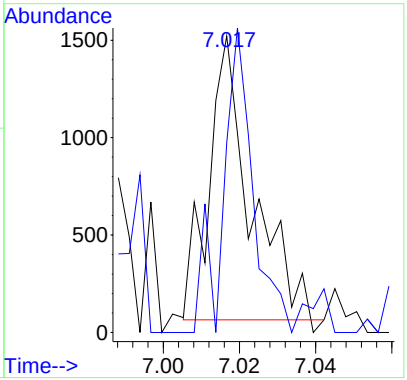


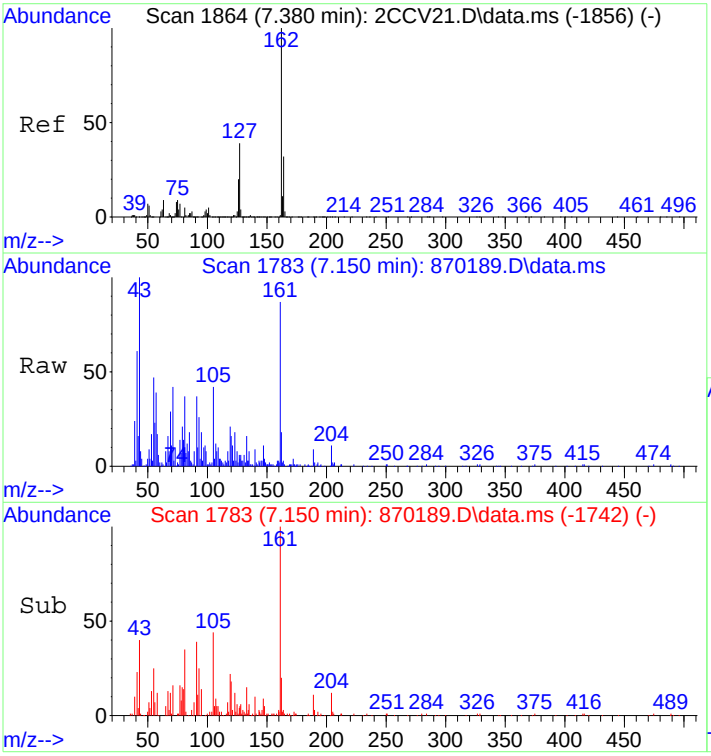


#43
245Triclpheno
Concen: 0.04 ug/mL
RT: 7.017 min Scan# 1736
Delta R.T. -0.000 min
Lab File: 870189.D
Acq: 8 Dec 10 8:59 pm

Tgt Ion:196 Resp: 1126

Ion	Ratio	Lower	Upper
196	100		
198	66.8	67.0	127.0#

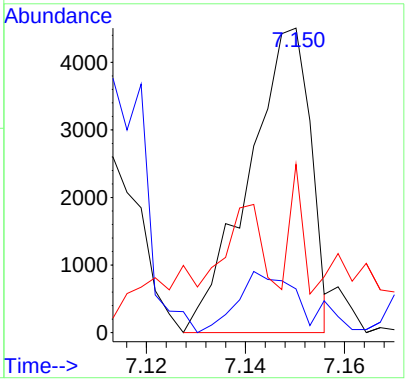


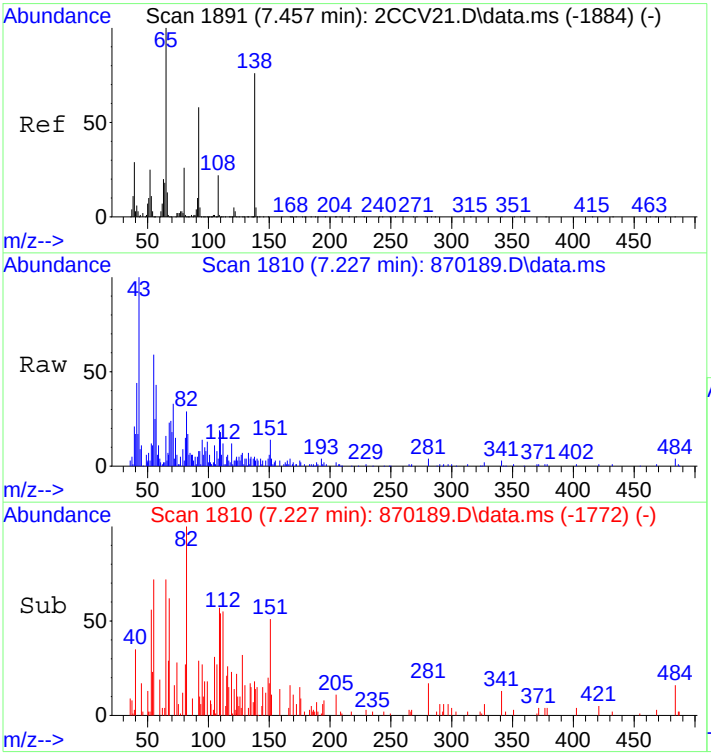


#45
2Clnaphthalen
Concen: 0.04 ug/mL
RT: 7.150 min Scan# 1783
Delta R.T. 0.003 min
Lab File: 870189.D
Acq: 8 Dec 10 8:59 pm

Tgt Ion:162 Resp: 3914

Ion	Ratio	Lower	Upper
162	100		
164	11.0	2.5	62.5
127	38.0	7.1	67.1

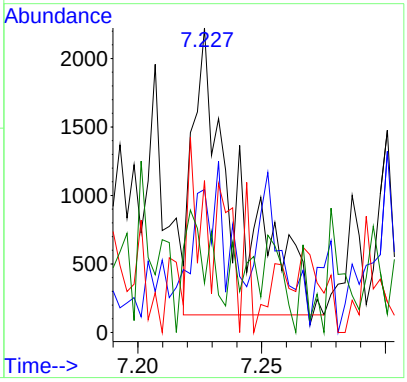


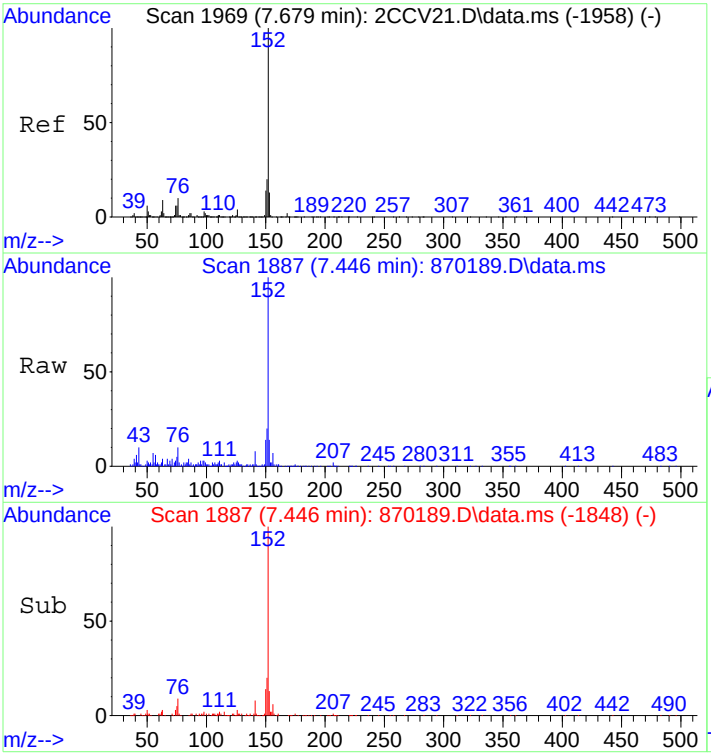


#46
2Nitroaniline
Concen: 0.11 ug/mL
RT: 7.227 min Scan# 1810
Delta R.T. -0.006 min
Lab File: 870189.D
Acq: 8 Dec 10 8:59 pm

Tgt Ion: 65 Resp: 2547

Ion	Ratio	Lower	Upper
65	100		
92	27.9	32.1	92.1#
138	43.4	73.8	133.8#
80	17.2	0.0	55.1

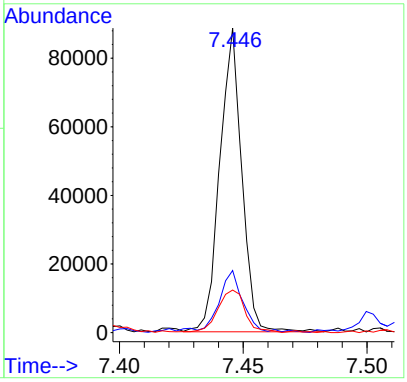


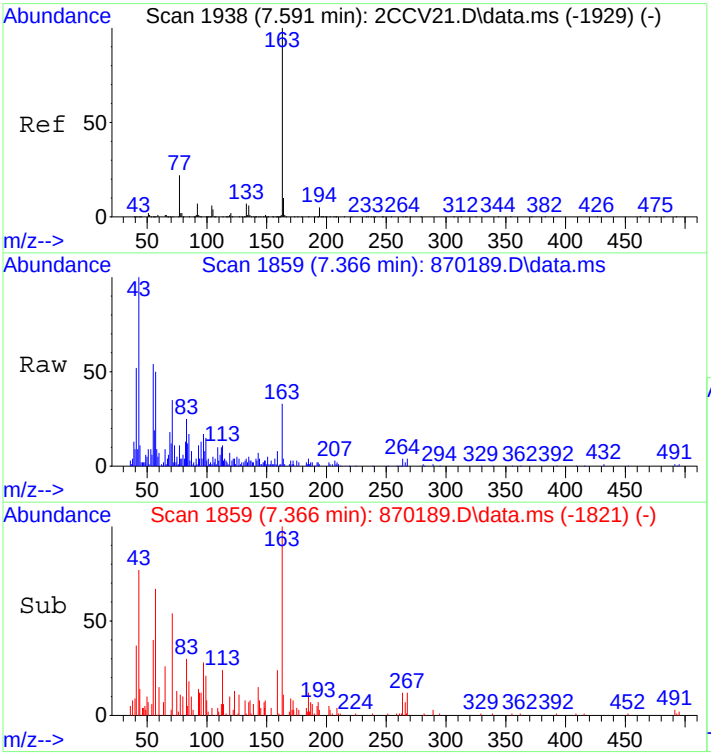


#47
Acnaphthylene
Concen: 0.33 ug/mL
RT: 7.446 min Scan# 1887
Delta R.T. -0.003 min
Lab File: 870189.D
Acq: 8 Dec 10 8:59 pm

Tgt Ion:152 Resp: 54725

Ion	Ratio	Lower	Upper
152	100		
151	19.7	0.0	49.5
153	13.7	0.0	43.0

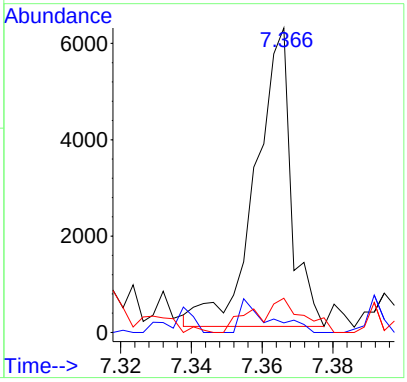


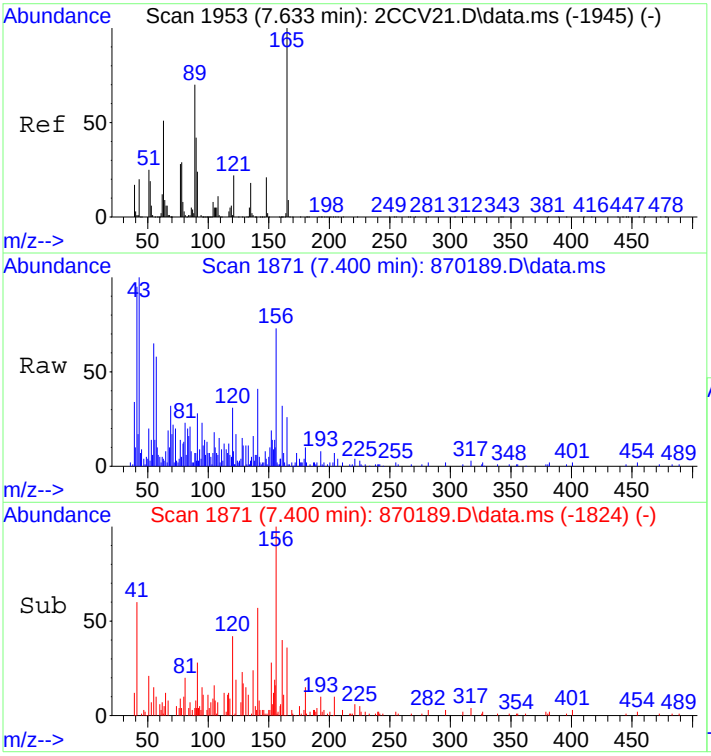


#48
Dimethylphtha
Concen: 0.04 ug/mL
RT: 7.366 min Scan# 1859
Delta R.T. -0.006 min
Lab File: 870189.D
Acq: 8 Dec 10 8:59 pm

Tgt Ion:163 Resp: 4355

Ion	Ratio	Lower	Upper
163	100		
194	3.2	0.0	34.0
164	11.5	0.0	40.3

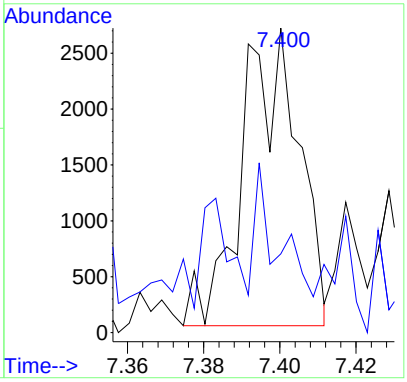


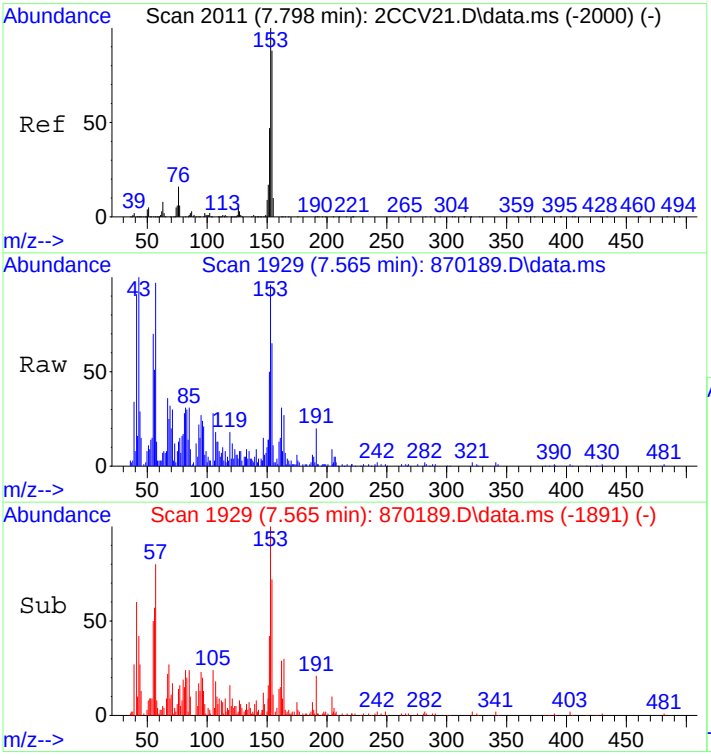


#49
26Dinitrotolu
Concen: 0.11 ug/mL
RT: 7.400 min Scan# 1871
Delta R.T. -0.011 min
Lab File: 870189.D
Acq: 8 Dec 10 8:59 pm

Tgt Ion:165 Resp: 2764

Ion	Ratio	Lower	Upper
165	100		
89	31.9	20.8	80.8

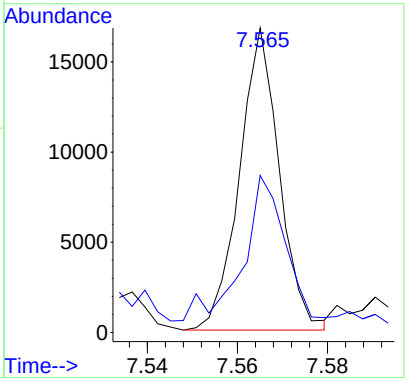


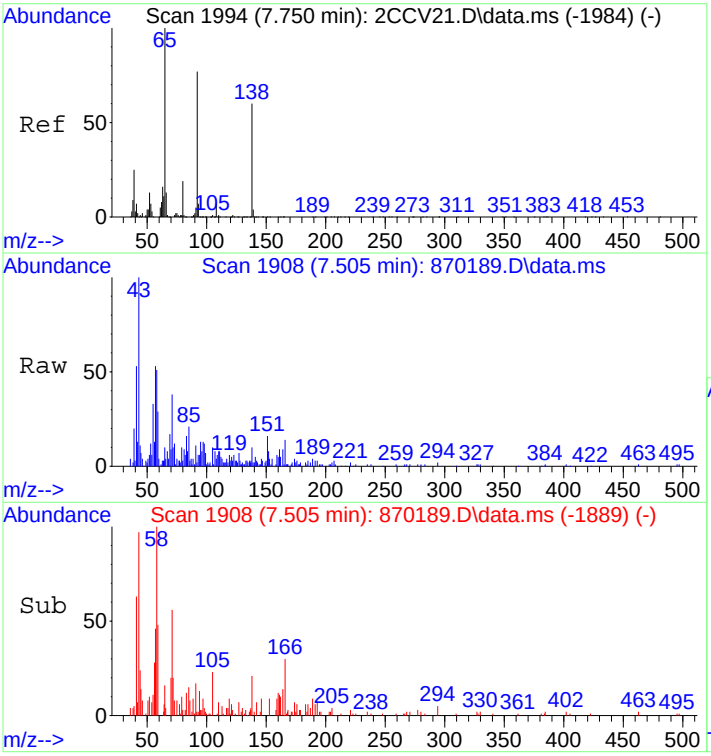


#50
Acenaphthene
Concen: 0.10 ug/mL
RT: 7.565 min Scan# 1929
Delta R.T. -0.006 min
Lab File: 870189.D
Acq: 8 Dec 10 8:59 pm

Tgt Ion:153 Resp: 10286

Ion	Ratio	Lower	Upper
153	100		
152	48.0	15.5	75.5

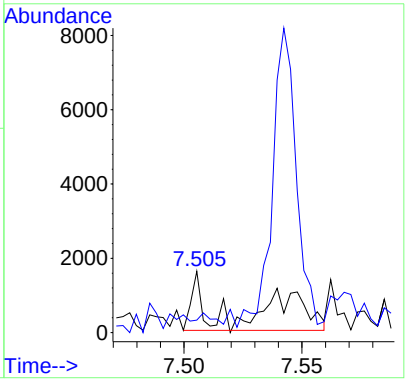


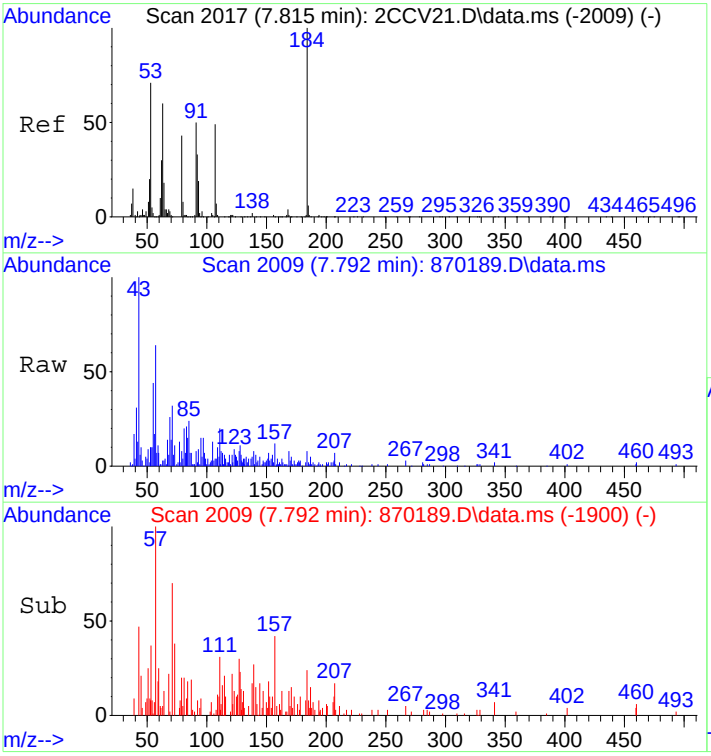


#51
3Nitroaniline
Concen: 0.07 ug/mL
RT: 7.505 min Scan# 1908
Delta R.T. -0.020 min
Lab File: 870189.D
Acq: 8 Dec 10 8:59 pm

Tgt Ion:138 Resp: 1965

Ion	Ratio	Lower	Upper
138	100		
92	2.8	74.6	134.6#

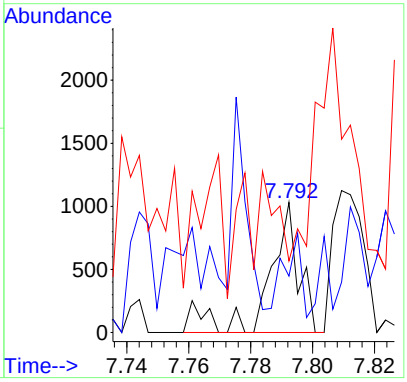


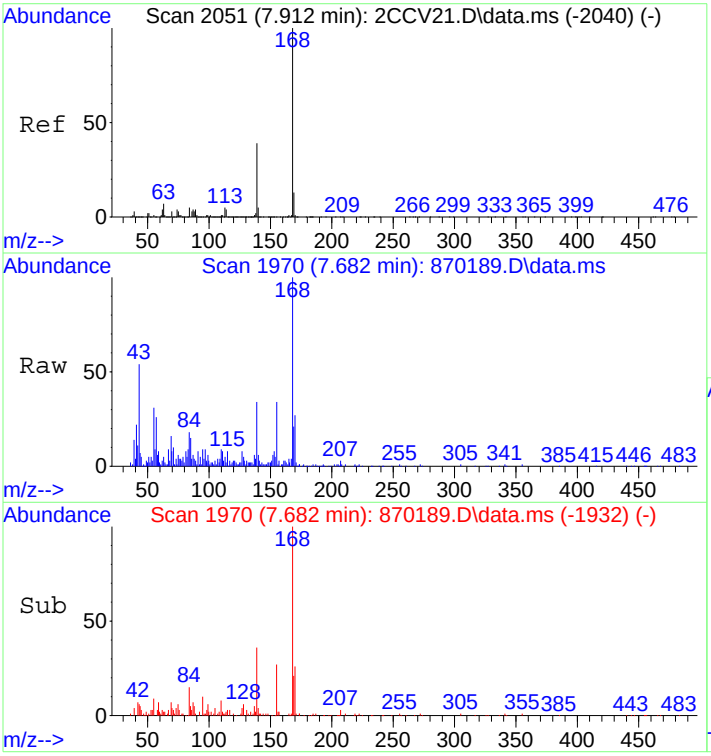


#52
24Dinitphenol
Concen: 2.42 ug/mL
RT: 7.792 min Scan# 2009
Delta R.T. 0.196 min
Lab File: 870189.D
Acq: 8 Dec 10 8:59 pm

Tgt Ion:184 Resp: 691

Ion	Ratio	Lower	Upper
184	100		
63	43.4	44.6	104.6#
107	55.0	13.0	73.0

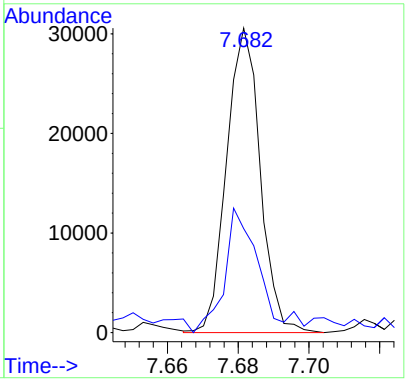


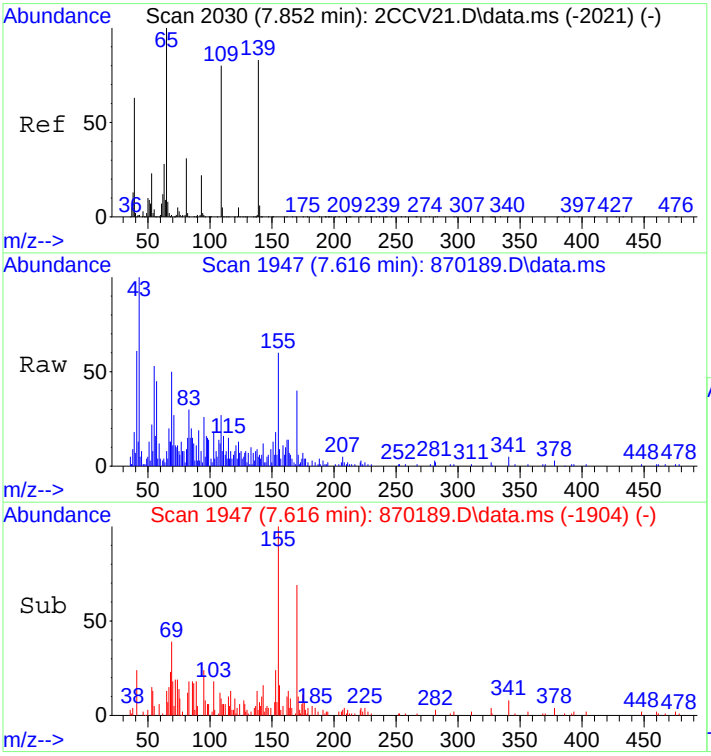


#53
Dibenzofuran
Concen: 0.15 ug/mL
RT: 7.682 min Scan# 1970
Delta R.T. -0.006 min
Lab File: 870189.D
Acq: 8 Dec 10 8:59 pm

Tgt Ion:168 Resp: 20147

Ion	Ratio	Lower	Upper
168	100		
139	29.7	7.1	67.1

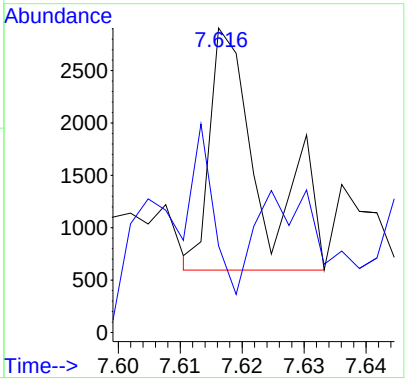


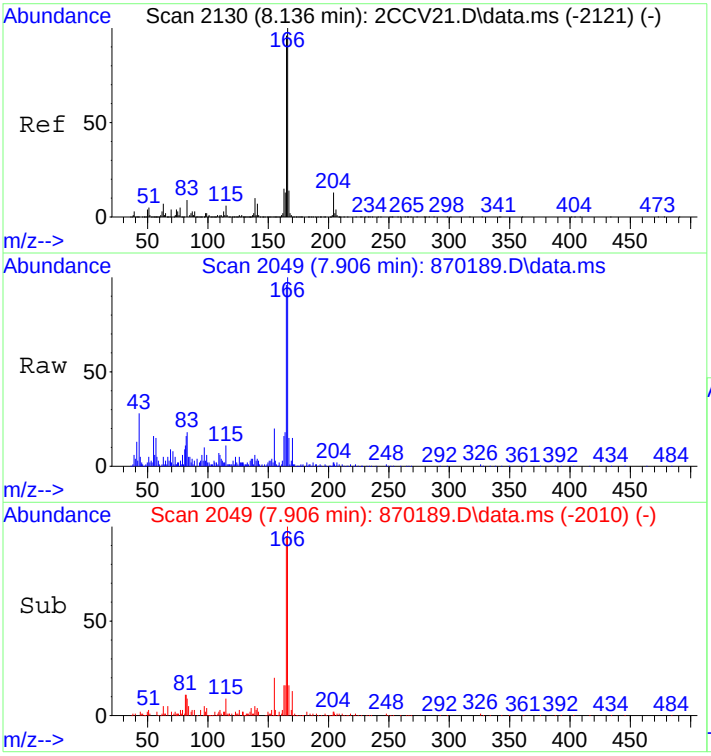


#55
4-Nitrophenol
Concen: 0.15 ug/mL
RT: 7.616 min Scan# 1947
Delta R.T. -0.023 min
Lab File: 870189.D
Acq: 8 Dec 10 8:59 pm

Tgt Ion:109 Resp: 1314

Ion	Ratio	Lower	Upper
109	100		
65	7.7	123.5	183.5#

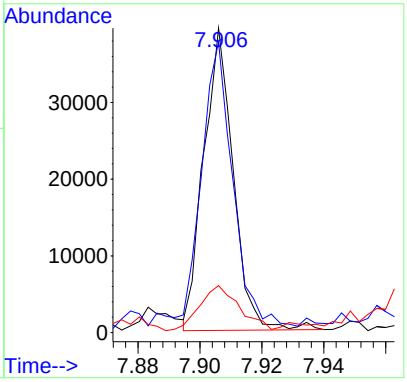


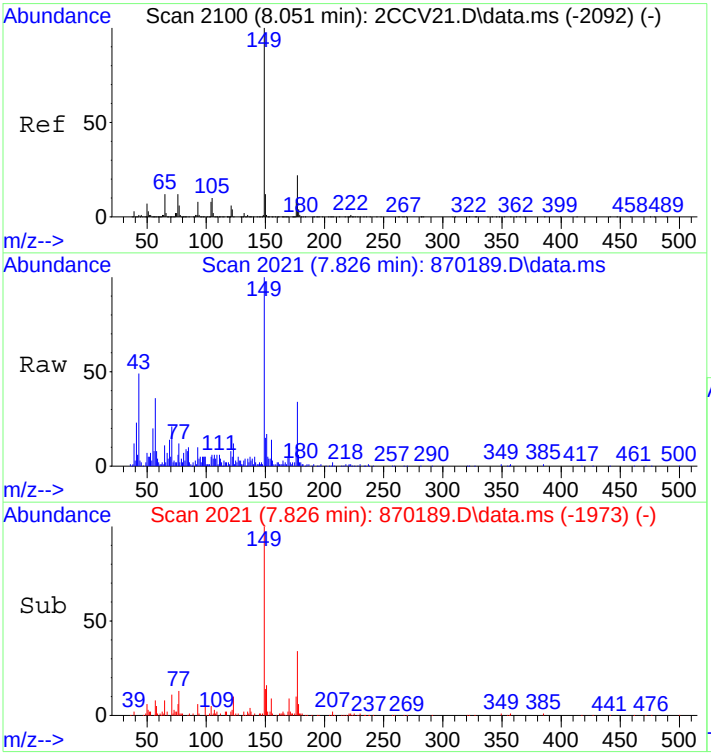


#58
Fluorene
Concen: 0.24 ug/mL
RT: 7.906 min Scan# 2049
Delta R.T. -0.003 min
Lab File: 870189.D
Acq: 8 Dec 10 8:59 pm

Tgt Ion:166 Resp: 26170

Ion	Ratio	Lower	Upper
166	100		
165	93.4	64.5	124.5
167	13.4	0.0	42.6

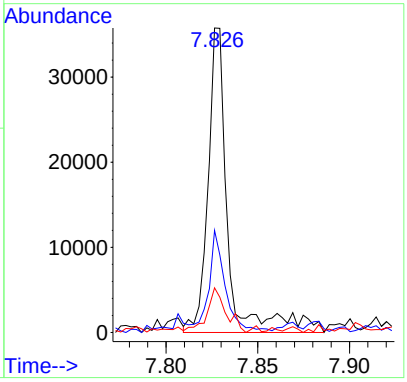


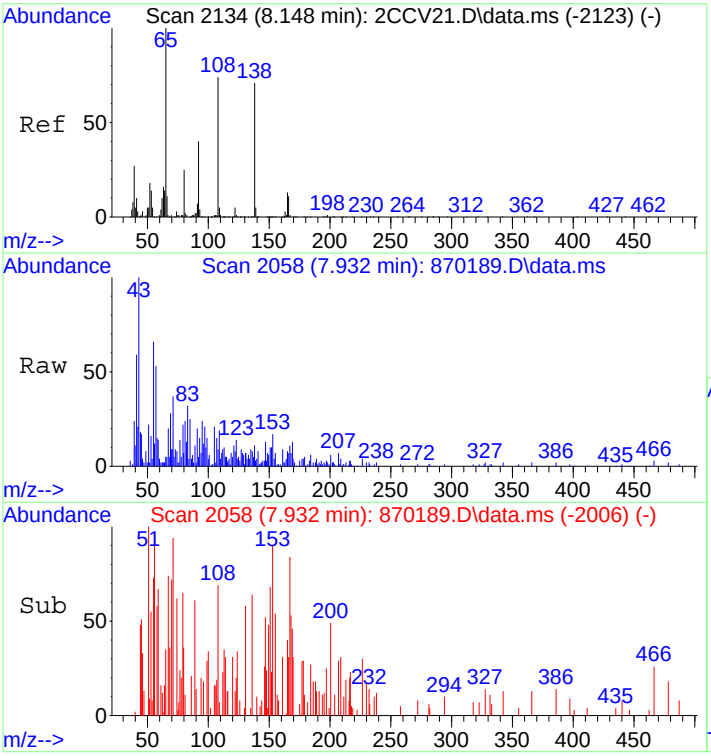


#60
Diethylphthal
Concen: 0.23 ug/mL
RT: 7.826 min Scan# 2021
Delta R.T. -0.009 min
Lab File: 870189.D
Acq: 8 Dec 10 8:59 pm

Tgt Ion:149 Resp: 27181

Ion	Ratio	Lower	Upper
149	100		
177	32.3	0.0	52.2
150	14.1	0.0	42.5

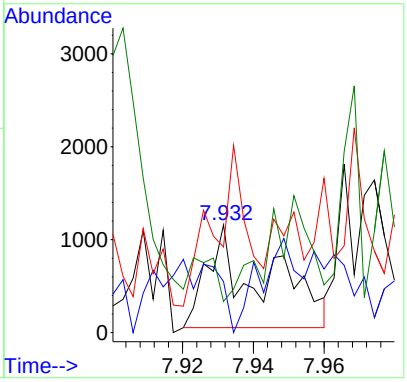


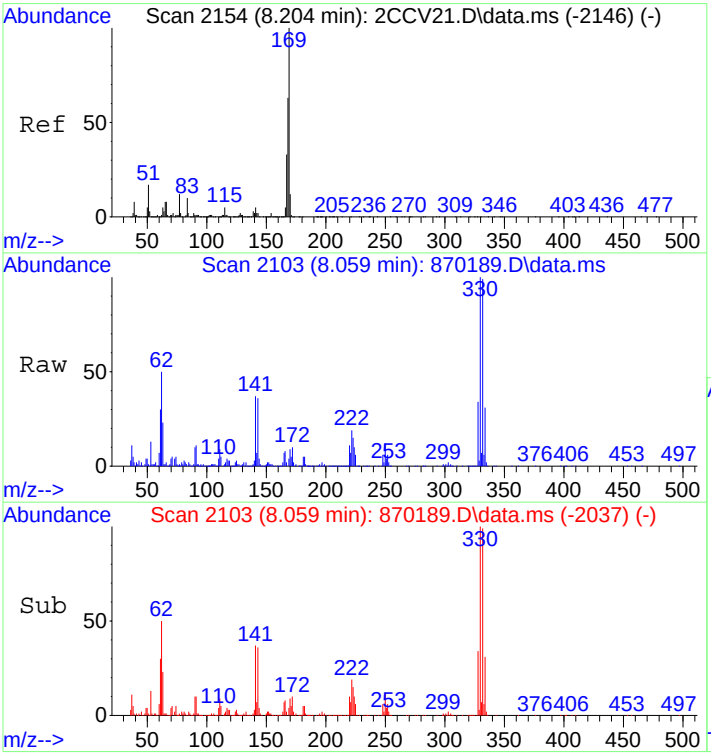


#61
4Nitroaniline
Concen: 0.05 ug/mL
RT: 7.932 min Scan# 2058
Delta R.T. 0.003 min
Lab File: 870189.D
Acq: 8 Dec 10 8:59 pm

Tgt Ion:138 Resp: 1229

Ion	Ratio	Lower	Upper
138	100		
92	0.0	19.9	79.9#
108	57.6	39.4	99.4
139	0.0	0.0	41.3

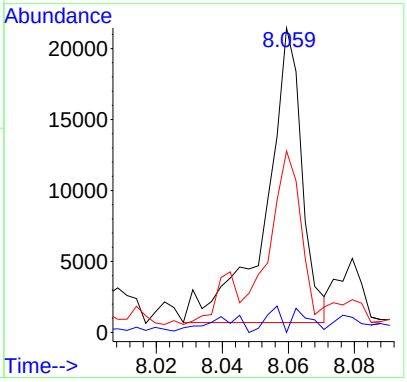


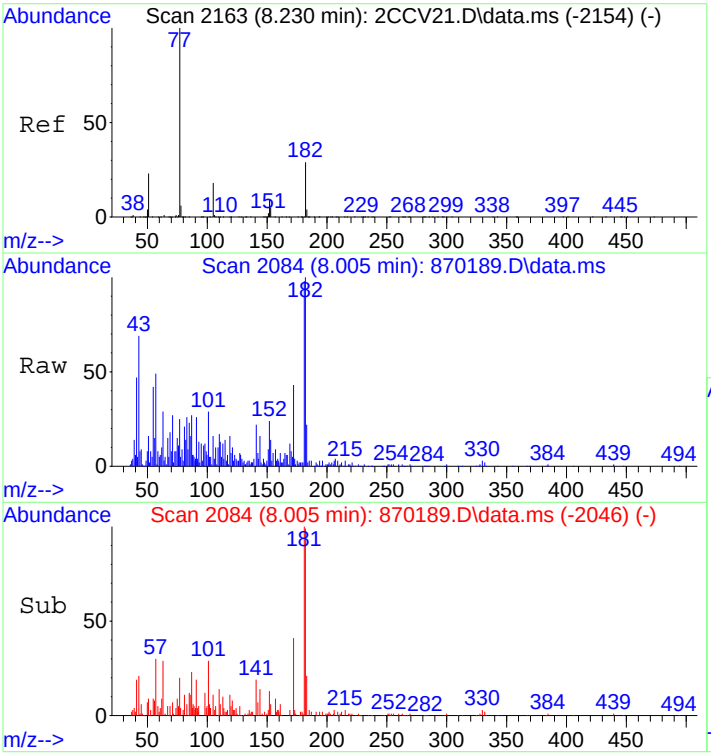


#65
Ntrsdiphlam&Diphlam
Concen: 0.21 ug/mL
RT: 8.059 min Scan# 2103
Delta R.T. 0.074 min
Lab File: 870189.D
Acq: 8 Dec 10 8:59 pm

Tgt Ion:169 Resp: 15996

Ion	Ratio	Lower	Upper
169	100		
168	0.0	34.8	94.8#
167	58.9	4.6	64.6

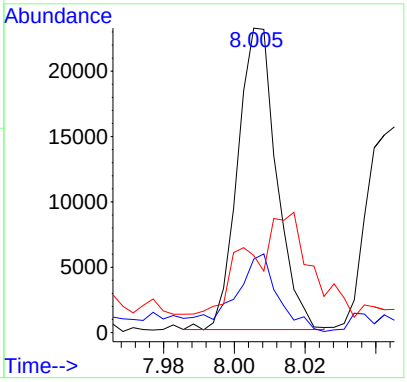


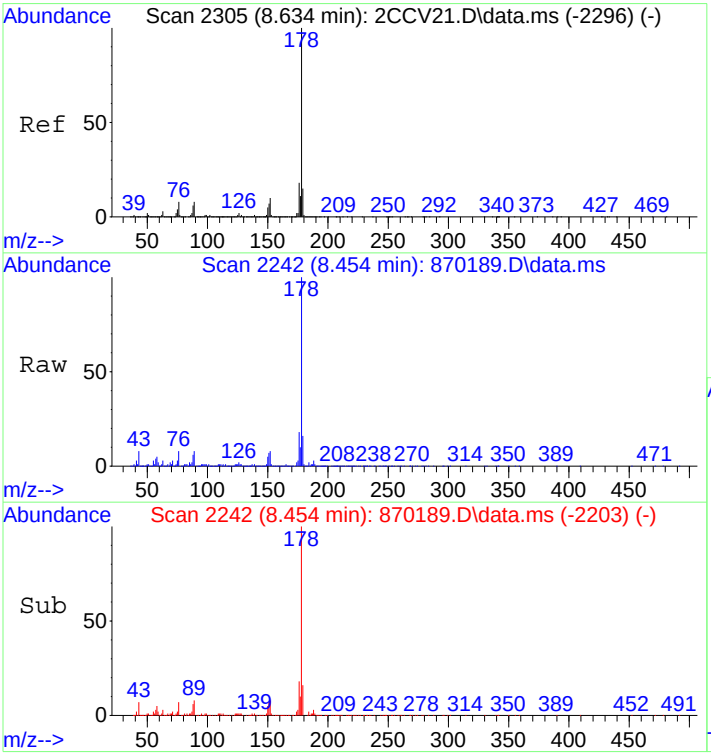


#66
Azobenz&12Diphlhyd
Concen: 0.63 ug/mL
RT: 8.005 min Scan# 2084
Delta R.T. -0.006 min
Lab File: 870189.D
Acq: 8 Dec 10 8:59 pm

Tgt Ion:182 Resp: 17698

Ion	Ratio	Lower	Upper
182	100		
152	24.0	3.5	63.5
77	24.3	348.6	408.6#

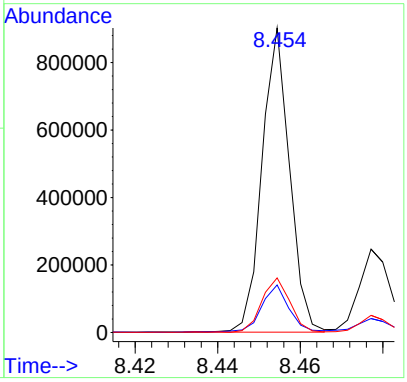


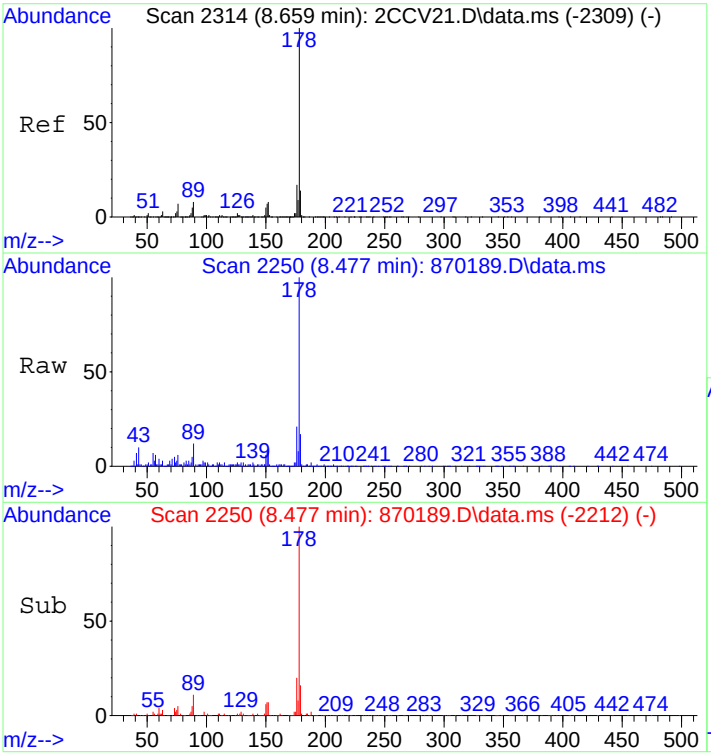


#70
Phenanthrene
Concen: 3.14 ug/mL
RT: 8.454 min Scan# 2242
Delta R.T. -0.003 min
Lab File: 870189.D
Acq: 8 Dec 10 8:59 pm

Tgt Ion:178 Resp: 418017

Ion	Ratio	Lower	Upper
178	100		
179	15.5	0.0	44.4
176	17.9	0.0	48.0

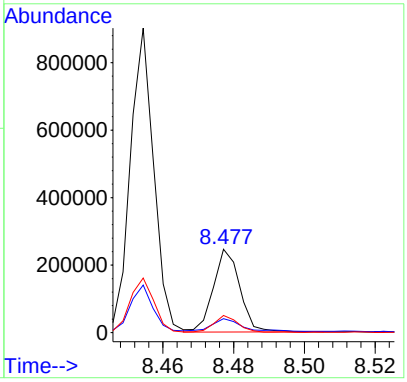


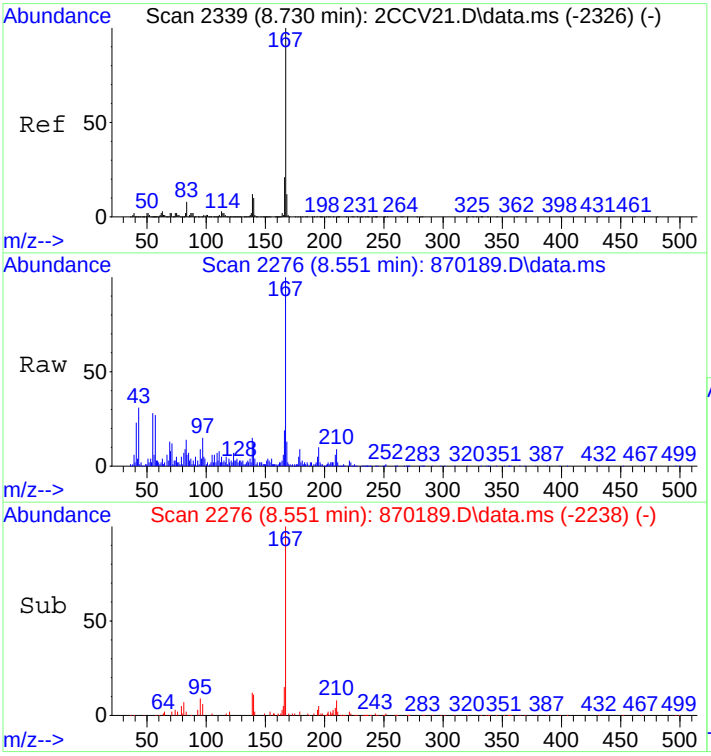


#71
Anthracene
Concen: 0.95 ug/mL
RT: 8.477 min Scan# 2250
Delta R.T. -0.006 min
Lab File: 870189.D
Acq: 8 Dec 10 8:59 pm

Tgt Ion:178 Resp: 127893

Ion	Ratio	Lower	Upper
178	100		
179	15.4	0.0	45.0
176	20.4	0.0	48.4

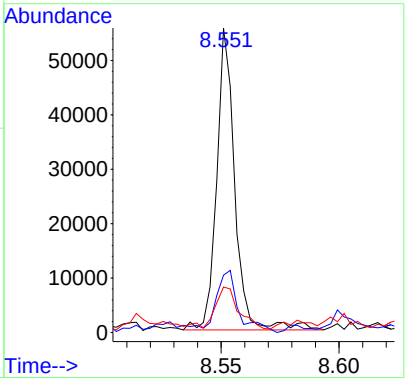


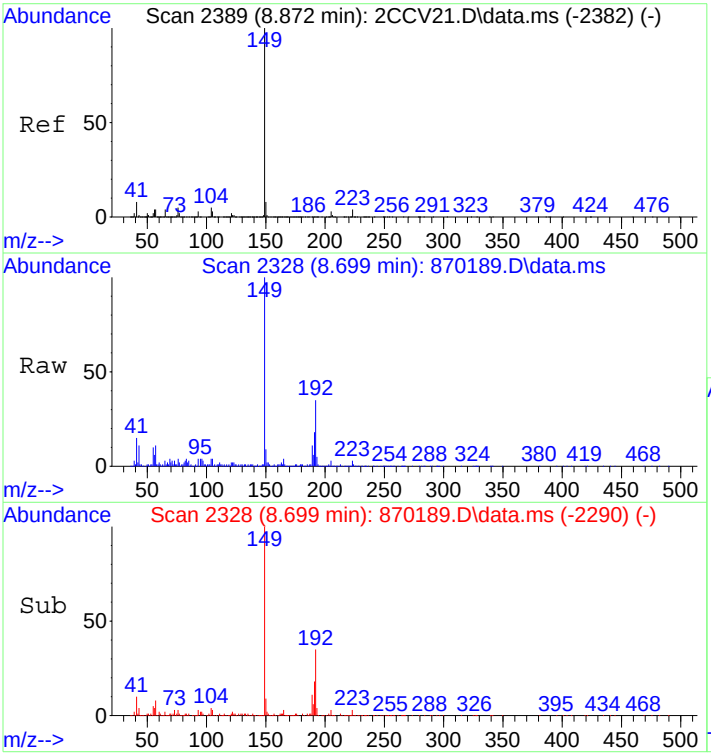


#72
Carbazole
Concen: 0.26 ug/mL
RT: 8.551 min Scan# 2276
Delta R.T. -0.006 min
Lab File: 870189.D
Acq: 8 Dec 10 8:59 pm

Tgt Ion:167 Resp: 29759

Ion	Ratio	Lower	Upper
167	100		
166	17.0	0.0	50.6
139	13.0	0.0	43.0

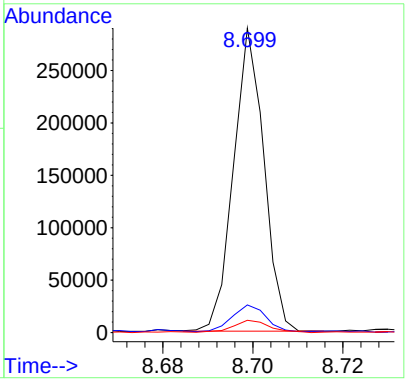


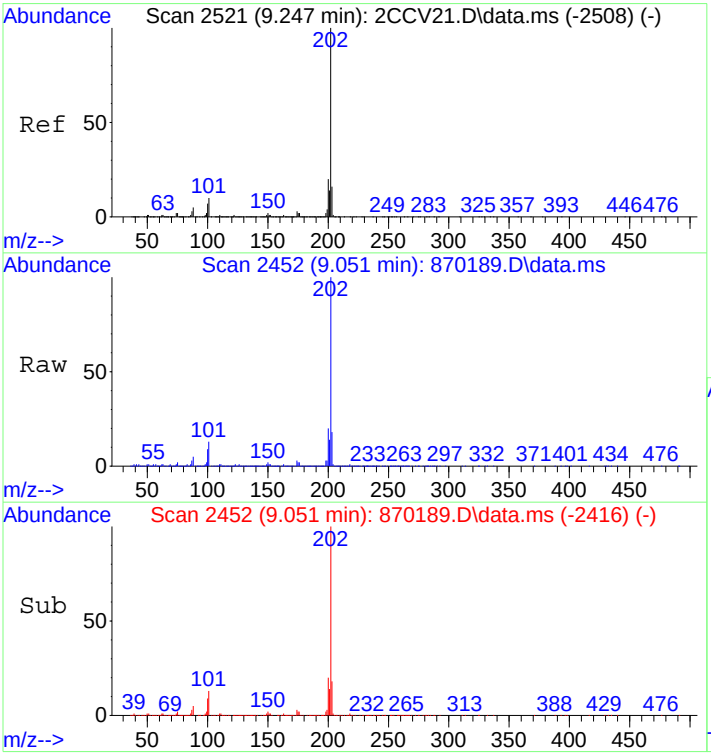


#73
Dinbtylphthal
Concen: 0.88 ug/mL
RT: 8.699 min Scan# 2328
Delta R.T. -0.006 min
Lab File: 870189.D
Acq: 8 Dec 10 8:59 pm

Tgt Ion:149 Resp: 135473

Ion	Ratio	Lower	Upper
149	100		
150	8.7	0.0	38.5
104	3.9	0.0	34.3

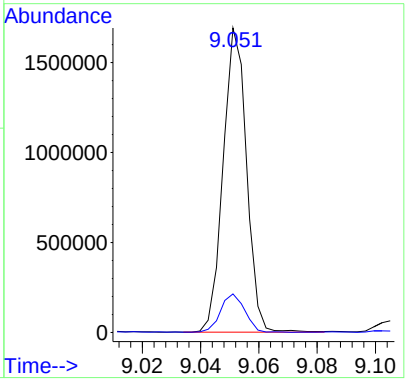


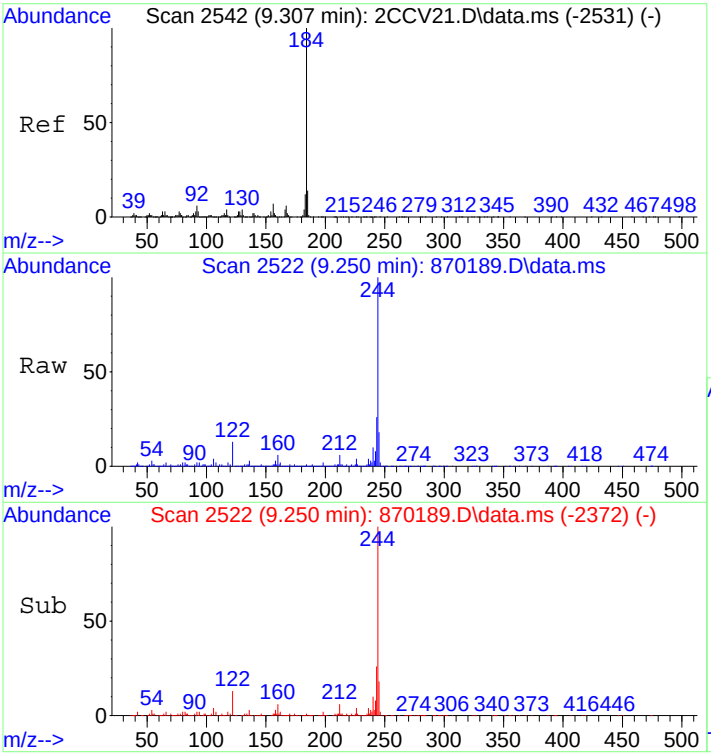


#74
Fluoranthene
Concen: 7.03 ug/mL
RT: 9.051 min Scan# 2452
Delta R.T. -0.011 min
Lab File: 870189.D
Acq: 8 Dec 10 8:59 pm

Tgt Ion:202 Resp: 944683

Ion	Ratio	Lower	Upper
202	100		
101	12.5	0.0	41.2

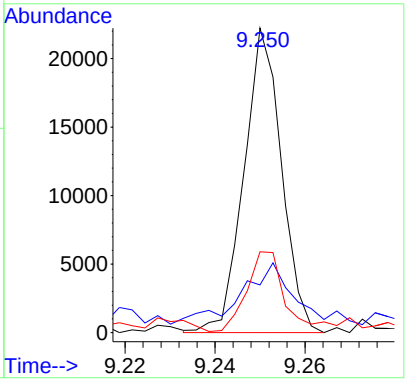


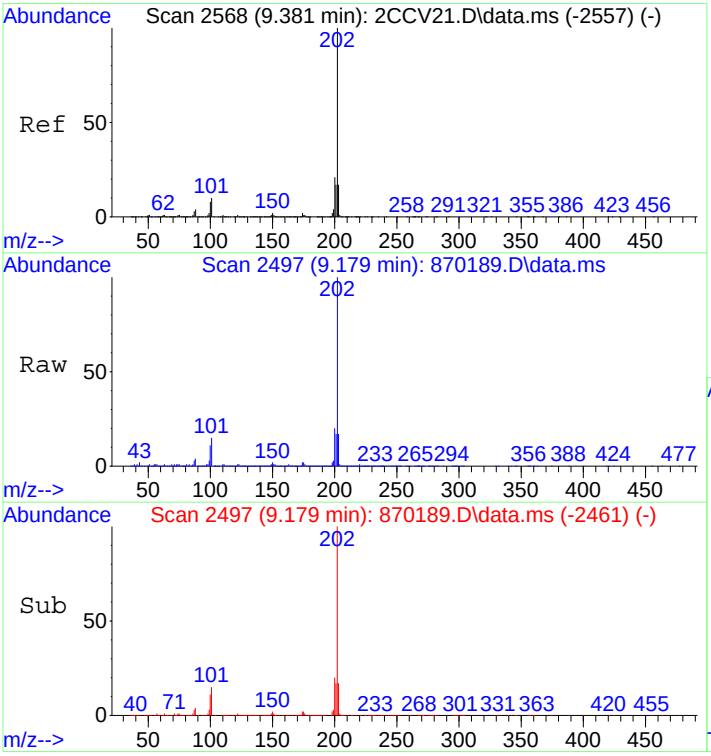


#76
Benzidine
Concen: Below ug/mL
RT: 9.250 min Scan# 2522
Delta R.T. 0.125 min
Lab File: 870189.D
Acq: 8 Dec 10 8:59 pm

Tgt Ion:184 Resp: 12870

Ion	Ratio	Lower	Upper
184	100		
185	11.4	0.0	43.8
183	23.0	0.0	41.8

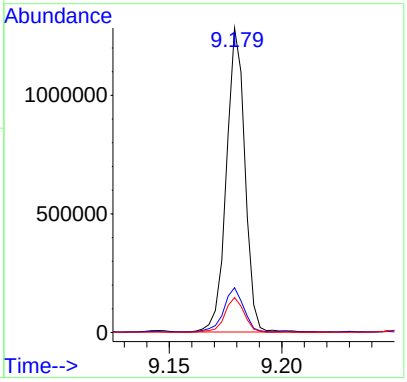


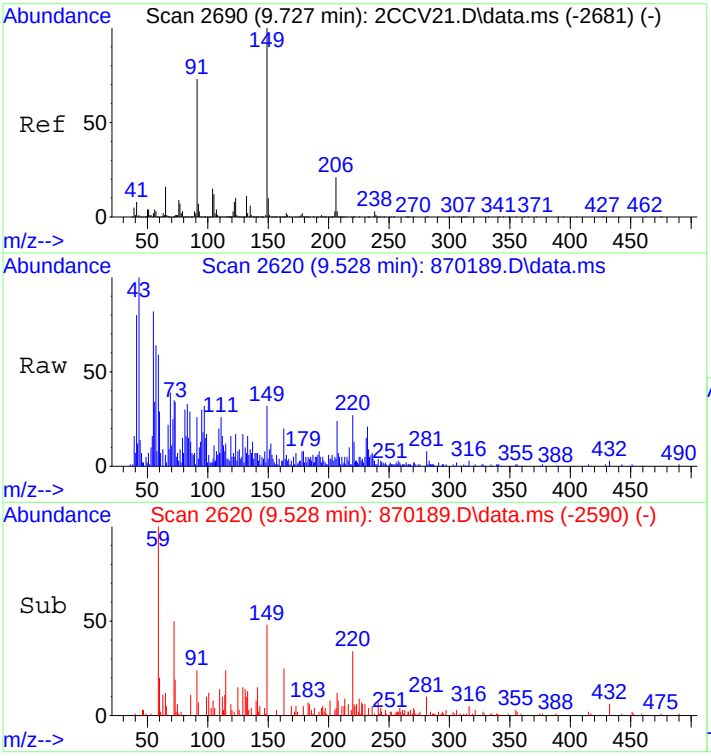


#77
Pyrene
Concen: 5.54 ug/mL
RT: 9.179 min Scan# 2497
Delta R.T. -0.011 min
Lab File: 870189.D
Acq: 8 Dec 10 8:59 pm

Tgt Ion:202 Resp: 733436

Ion	Ratio	Lower	Upper
202	100		
101	14.6	0.0	44.0
100	11.4	0.0	42.2

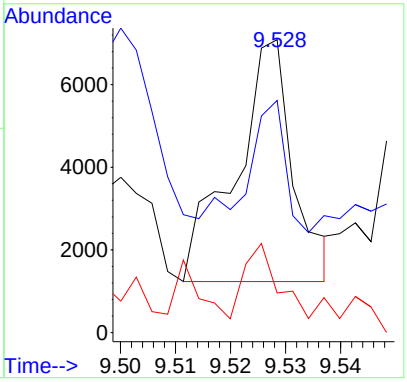


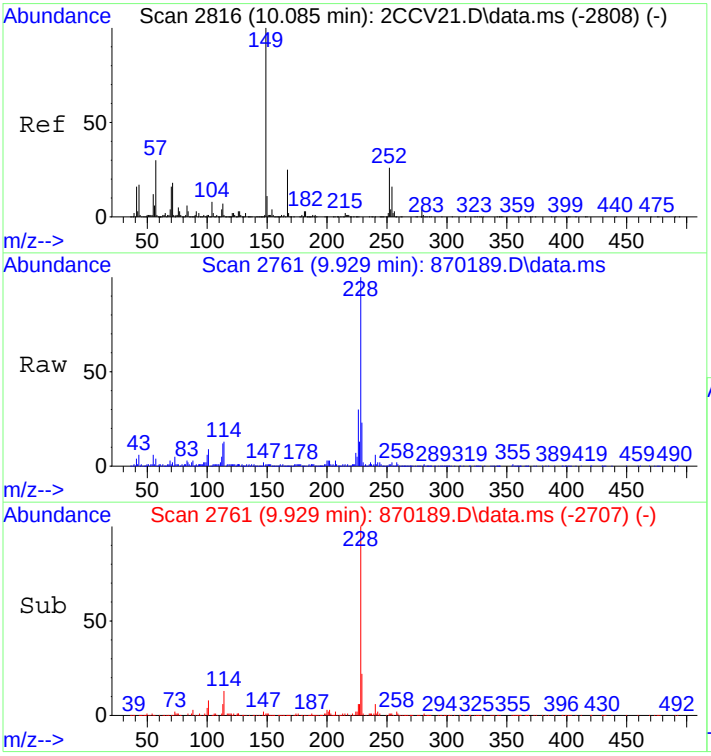


#79
Btylbzylphth
Concen: 0.07 ug/mL
RT: 9.528 min Scan# 2620
Delta R.T. -0.014 min
Lab File: 870189.D
Acq: 8 Dec 10 8:59 pm

Tgt Ion:149 Resp: 4288

Ion	Ratio	Lower	Upper
149	100		
91	47.6	40.5	100.5
206	1.9	0.0	48.9

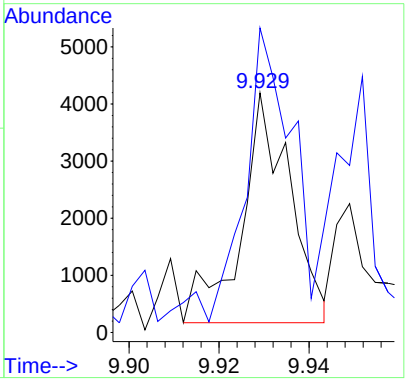


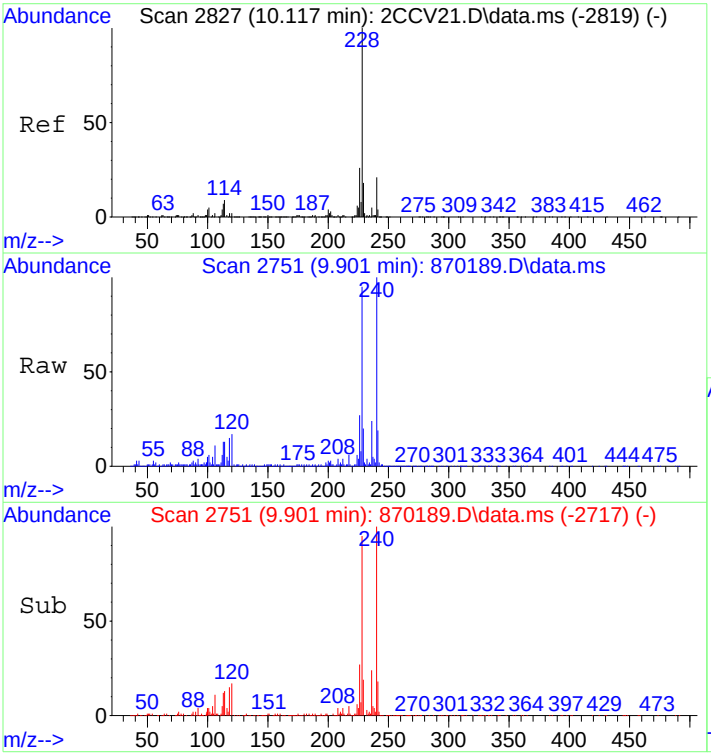


#80
33Diclbnzidin
Concen: Below ug/mL
RT: 9.929 min Scan# 2761
Delta R.T. 0.040 min
Lab File: 870189.D
Acq: 8 Dec 10 8:59 pm

Tgt Ion:252 Resp: 3023

Ion	Ratio	Lower	Upper
252	100		
254	119.5	31.7	91.7#

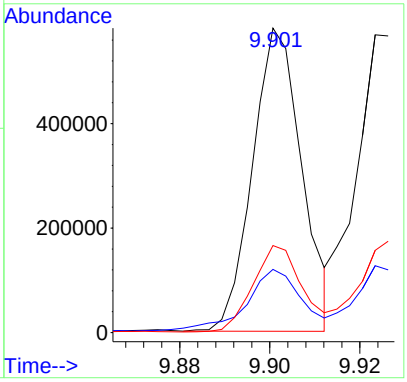


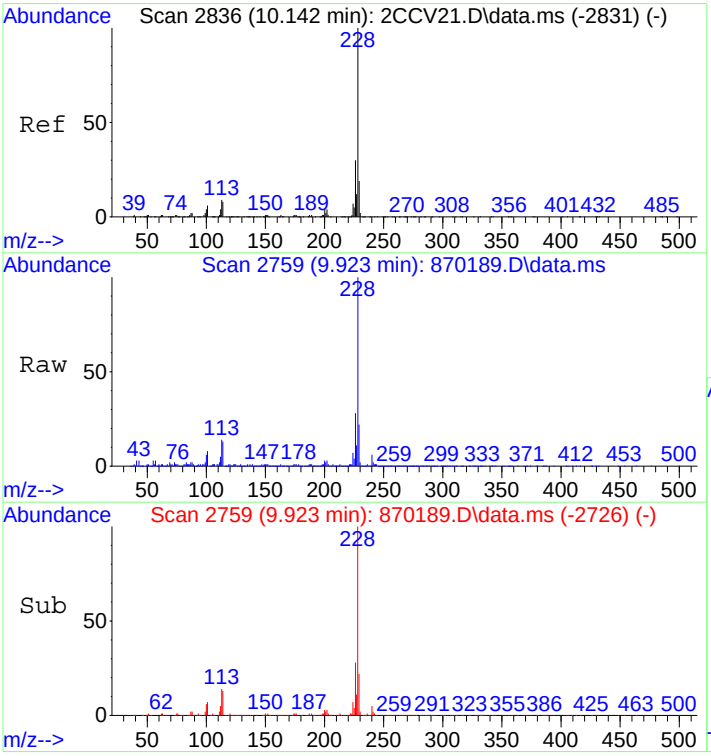


#81
B[a]anthracen
Concen: 3.57 ug/mL
RT: 9.901 min Scan# 2751
Delta R.T. -0.017 min
Lab File: 870189.D
Acq: 8 Dec 10 8:59 pm

Tgt Ion:228 Resp: 440717

Ion	Ratio	Lower	Upper
228	100		
229	19.4	0.0	48.8
226	28.5	0.0	56.6

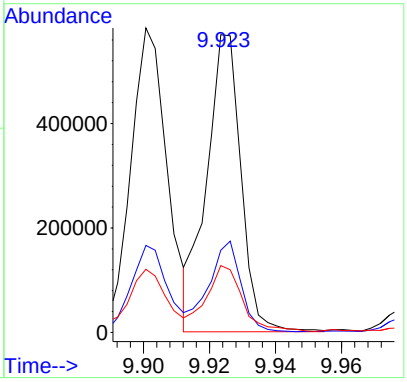


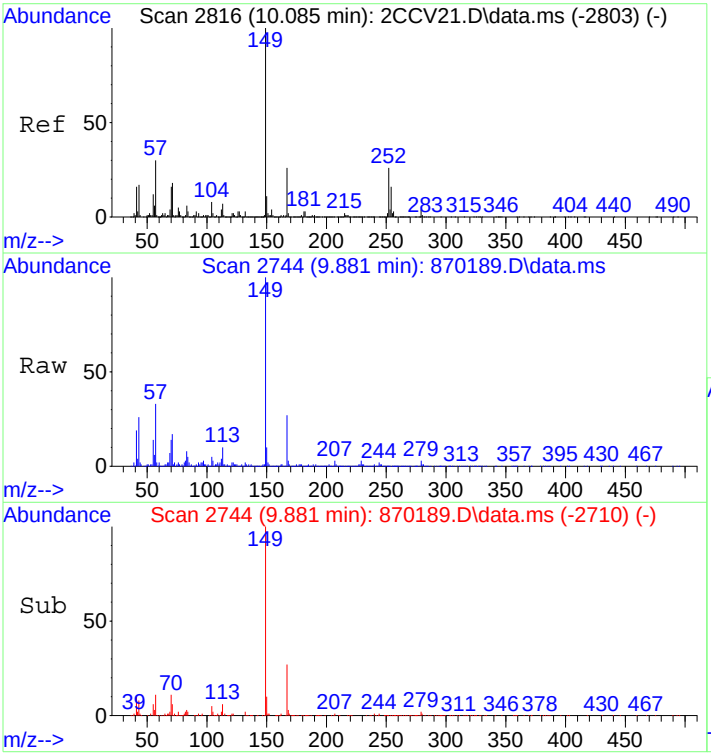


#82
Chrysene
Concen: 3.50 ug/mL
RT: 9.923 min Scan# 2759
Delta R.T. -0.020 min
Lab File: 870189.D
Acq: 8 Dec 10 8:59 pm

Tgt Ion:228 Resp: 413921

Ion	Ratio	Lower	Upper
228	100		
226	27.4	0.0	58.6
229	22.0	0.0	49.6

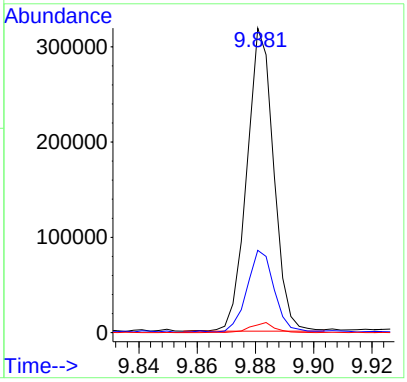


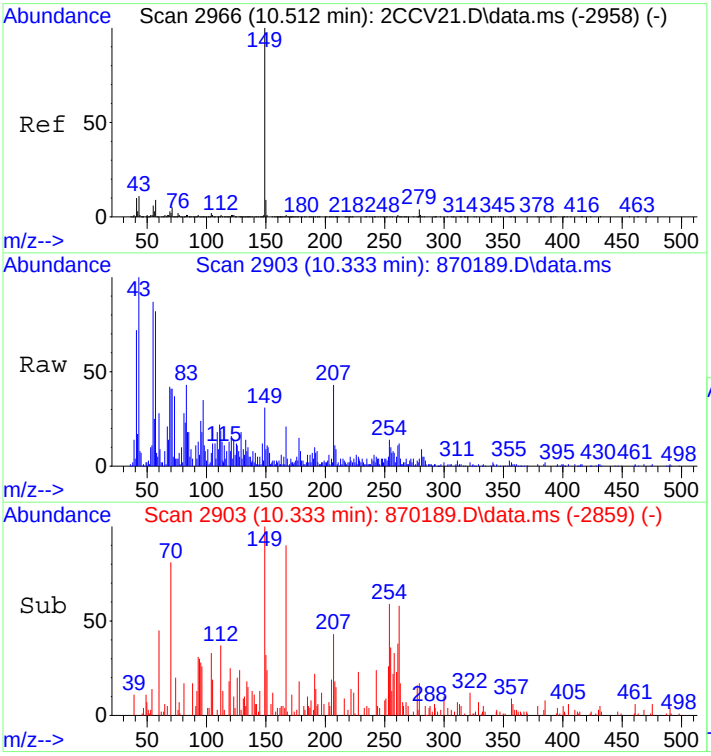


#83
bis2Ethlhxlph
Concen: 2.17 ug/mL
RT: 9.881 min Scan# 2744
Delta R.T. -0.017 min
Lab File: 870189.D
Acq: 8 Dec 10 8:59 pm

Tgt Ion:149 Resp: 203190

Ion	Ratio	Lower	Upper
149	100		
167	27.0	0.0	56.9
279	2.5	0.0	33.6

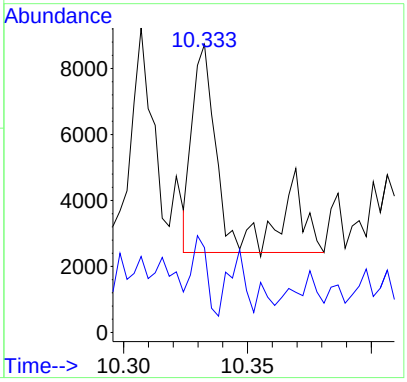


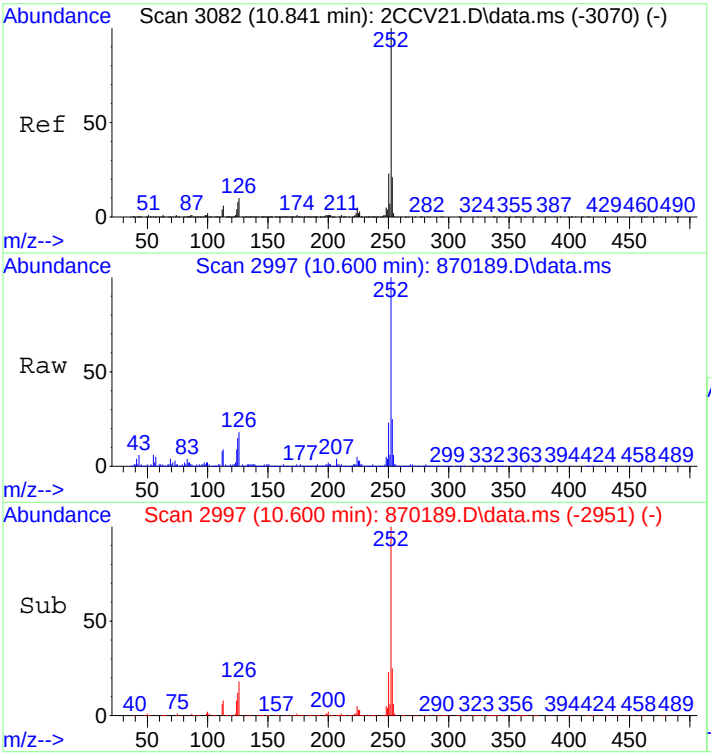


#84
Dinoctylphthl
Concen: 0.03 ug/mL
RT: 10.333 min Scan# 2903
Delta R.T. 0.011 min
Lab File: 870189.D
Acq: 8 Dec 10 8:59 pm

Tgt Ion:149 Resp: 5732

Ion	Ratio	Lower	Upper
149	100		
150	26.7	0.0	39.0

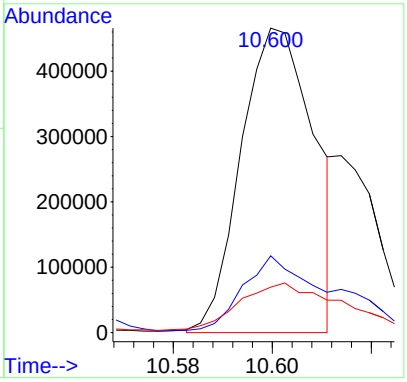


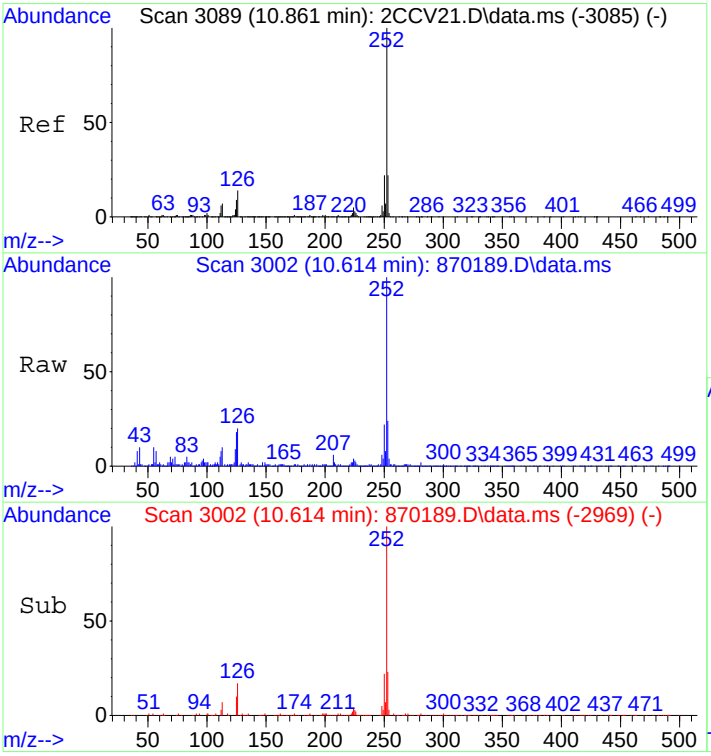


#86
B[b]fluoranth
Concen: 4.34 ug/mL m
RT: 10.600 min Scan# 2997
Delta R.T. -0.014 min
Lab File: 870189.D
Acq: 8 Dec 10 8:59 pm

Tgt Ion:252 Resp: 477703

Ion	Ratio	Lower	Upper
252	100		
253	25.2	0.0	50.8
125	14.9	0.0	41.9

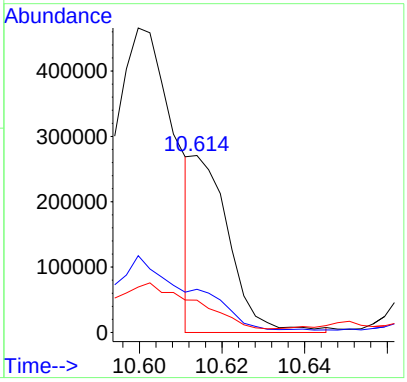


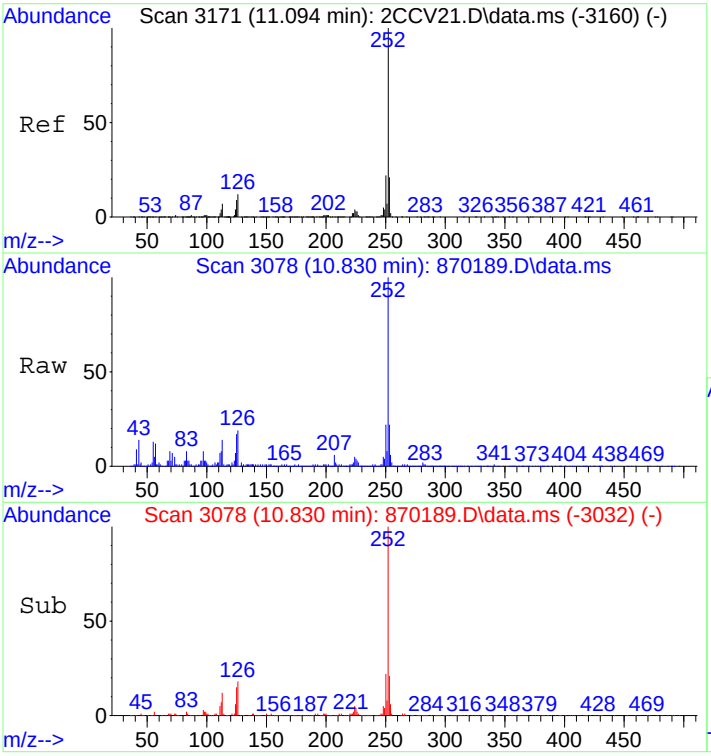


#87
B[k]fluoranth
Concen: 1.63 ug/mL m
RT: 10.614 min Scan# 3002
Delta R.T. -0.020 min
Lab File: 870189.D
Acq: 8 Dec 10 8:59 pm

Tgt Ion:252 Resp: 168999

Ion	Ratio	Lower	Upper
252	100		
253	24.4	0.0	50.8
125	18.2	0.0	41.3

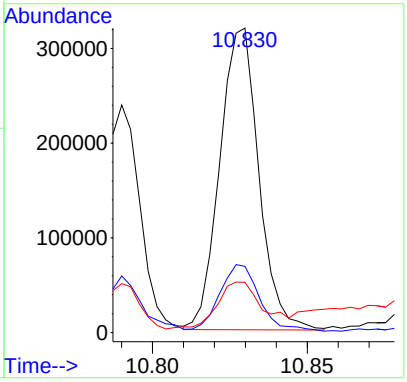


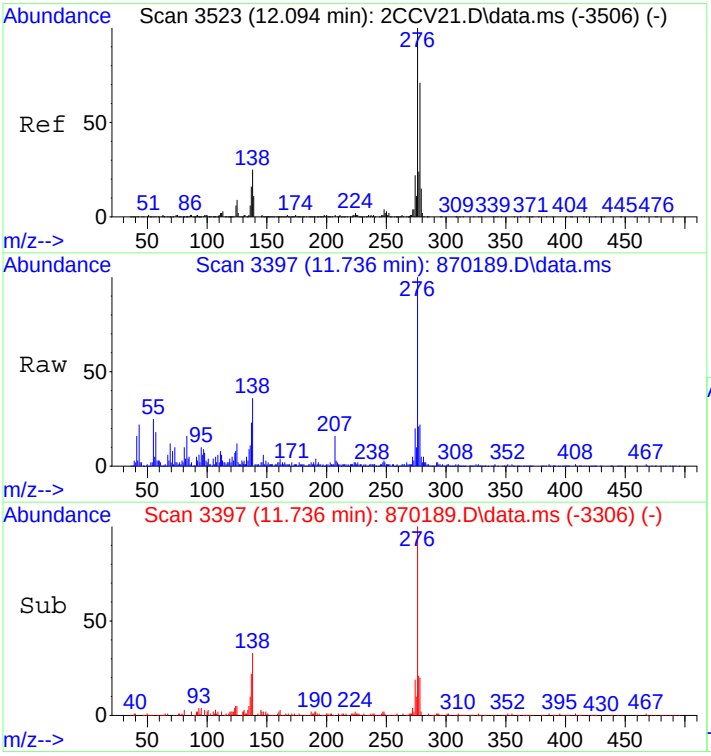


#88
Benz[a]pyrene
Concen: 2.78 ug/mL
RT: 10.830 min Scan# 3078
Delta R.T. -0.014 min
Lab File: 870189.D
Acq: 8 Dec 10 8:59 pm

Tgt Ion:252 Resp: 279089

Ion	Ratio	Lower	Upper
252	100		
253	21.5	0.0	50.4
125	14.8	0.0	43.2

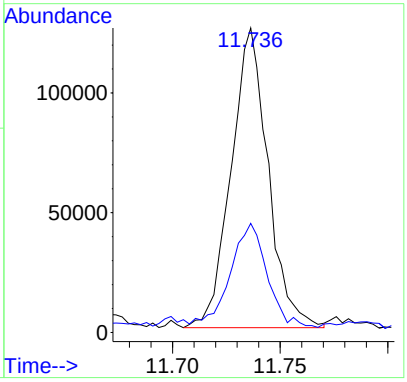


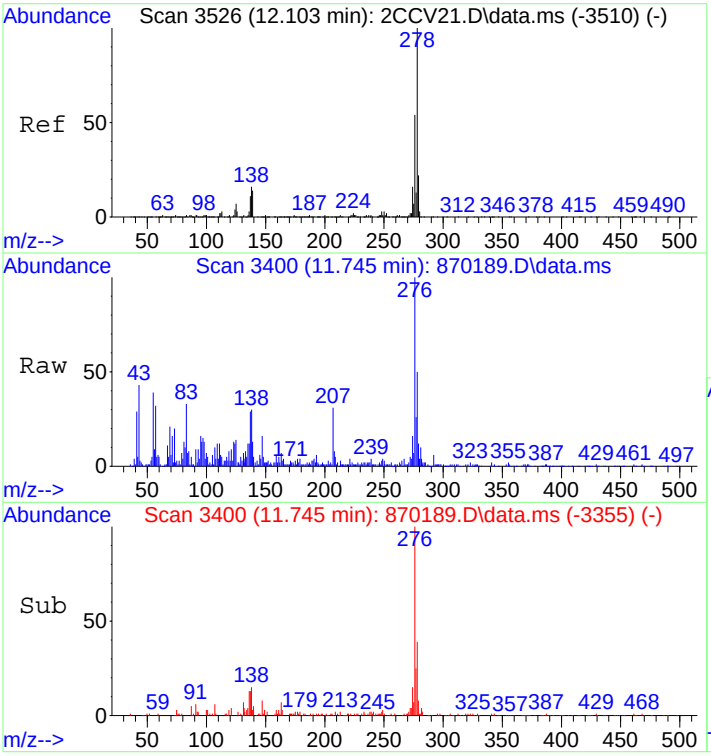


#89
Indeno-pyrene
Concen: 1.46 ug/mL
RT: 11.736 min Scan# 3397
Delta R.T. -0.020 min
Lab File: 870189.D
Acq: 8 Dec 10 8:59 pm

Tgt Ion:276 Resp: 149335

Ion	Ratio	Lower	Upper
276	100		
138	33.6	2.2	62.2

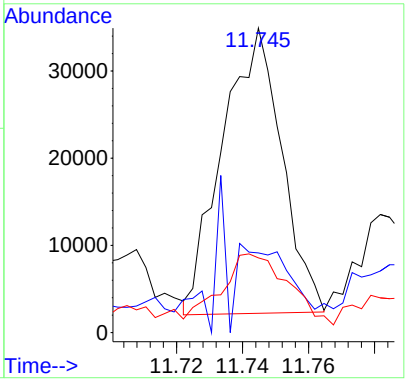


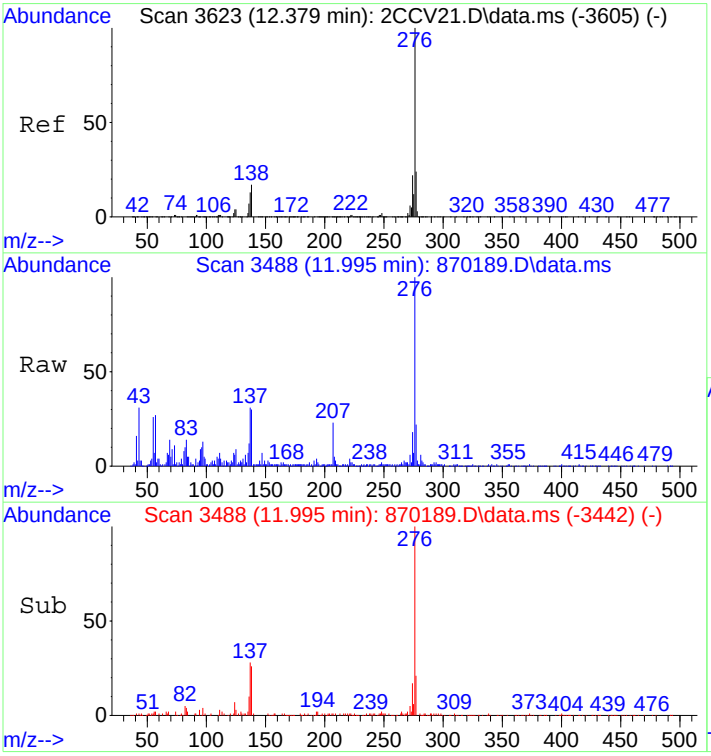


#90
Dib[ah]anthr
Concen: 0.49 ug/mL
RT: 11.745 min Scan# 3400
Delta R.T. -0.023 min
Lab File: 870189.D
Acq: 8 Dec 10 8:59 pm

Tgt Ion:278 Resp: 40823

Ion	Ratio	Lower	Upper
278	100		
139	28.3	0.0	50.7
279	21.6	0.0	54.3

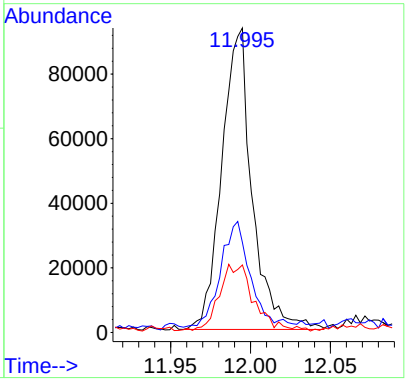


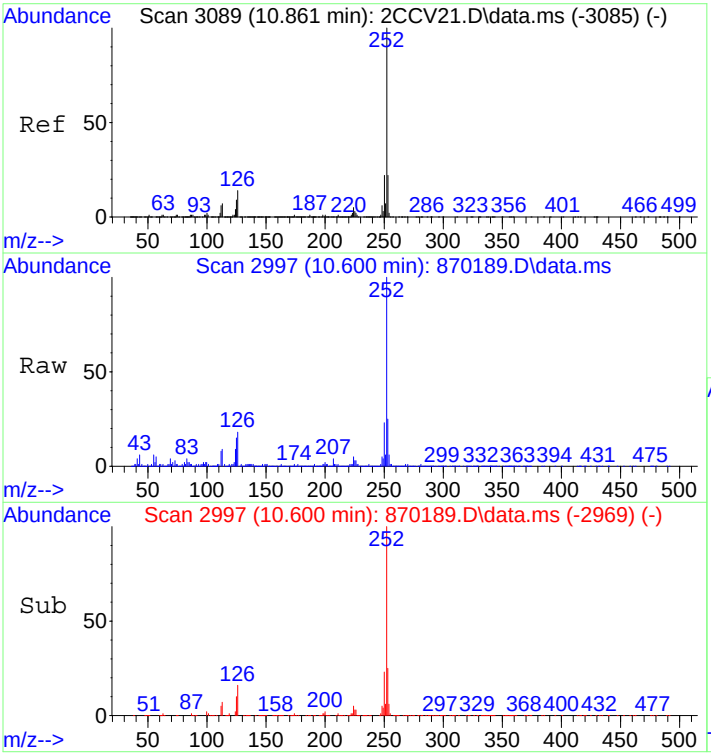


#91
B[ghi]perylen
Concen: 1.46 ug/mL
RT: 11.995 min Scan# 3488
Delta R.T. -0.020 min
Lab File: 870189.D
Acq: 8 Dec 10 8:59 pm

Tgt Ion:276 Resp: 123816

Ion	Ratio	Lower	Upper
276	100		
138	28.1	0.0	57.5
277	21.5	0.0	53.1

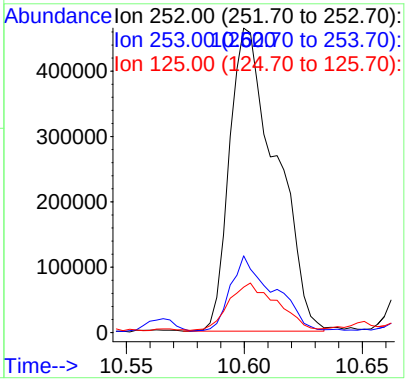




#87
B[k]fluoranth
Concen: 6.11 ug/mL
RT: 10.600 min Scan# 2997
Delta R.T. -0.034 min
Lab File: 870189.D
Acq: 8 Dec 2010 20:59

Tgt Ion:252 Resp: 635343

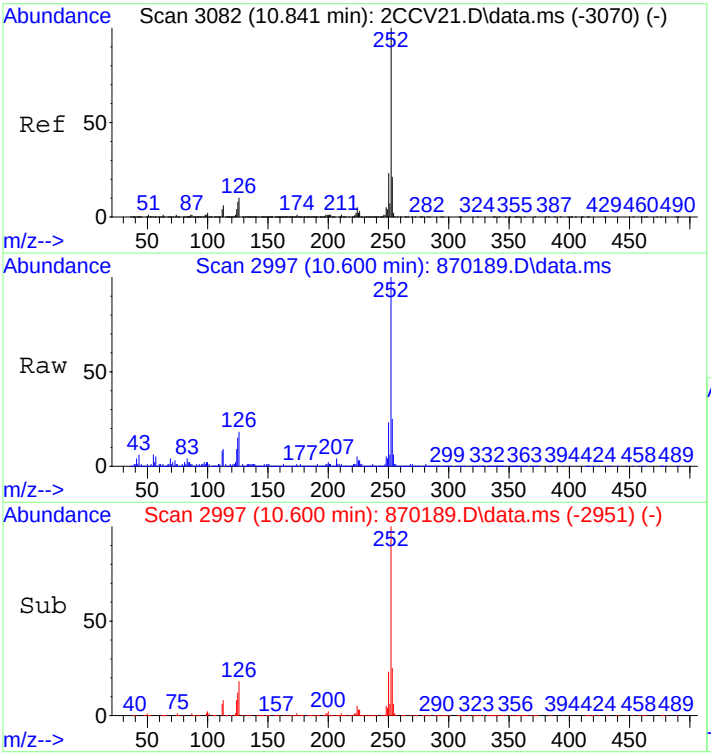
Ion	Ratio	Lower	Upper
252	100		
253	24.4	0.0	50.8
125	14.0	0.0	41.3



RPN
12/09/10

JJY
01/05/11

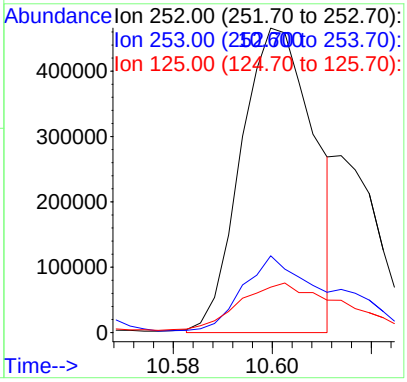
Before Manual Integration



#86
B[b]fluoranth
Concen: 4.34 ug/mL m
RT: 10.600 min Scan# 2997
Delta R.T. -0.014 min
Lab File: 870189.D
Acq: 8 Dec 2010 20:59

Tgt Ion:252 Resp: 477703

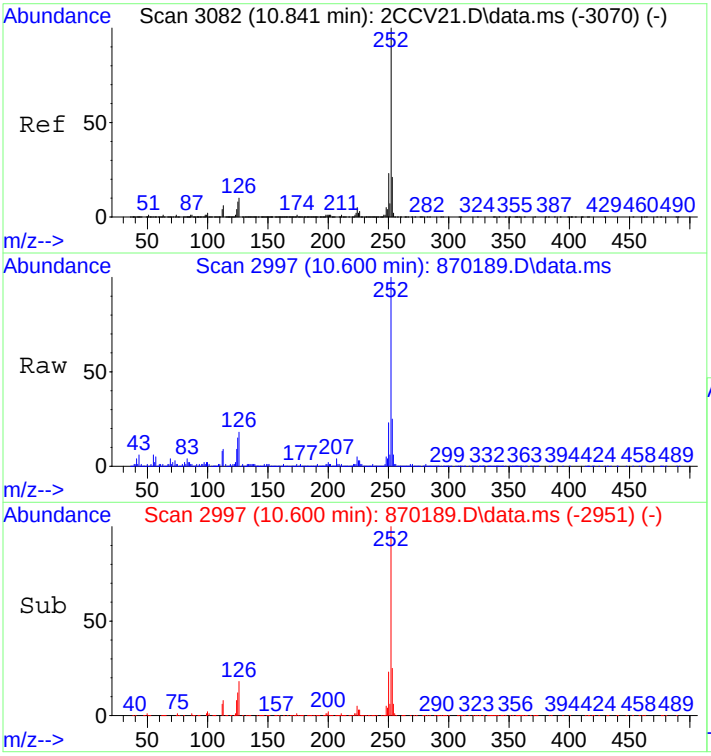
Ion	Ratio	Lower	Upper
252	100		
253	25.2	0.0	50.8
125	14.9	0.0	41.9



CRPN
12/09/10

JJY
01/05/11

After Manual Integration

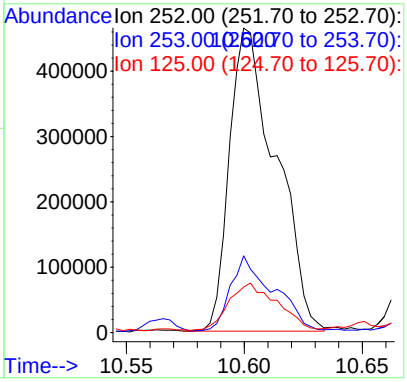


#86
B[b]fluoranth
Concen: 5.77 ug/mL
RT: 10.600 min Scan# 2997
Delta R.T. -0.014 min
Lab File: 870189.D
Acq: 8 Dec 2010 20:59

RPN
12/09/10

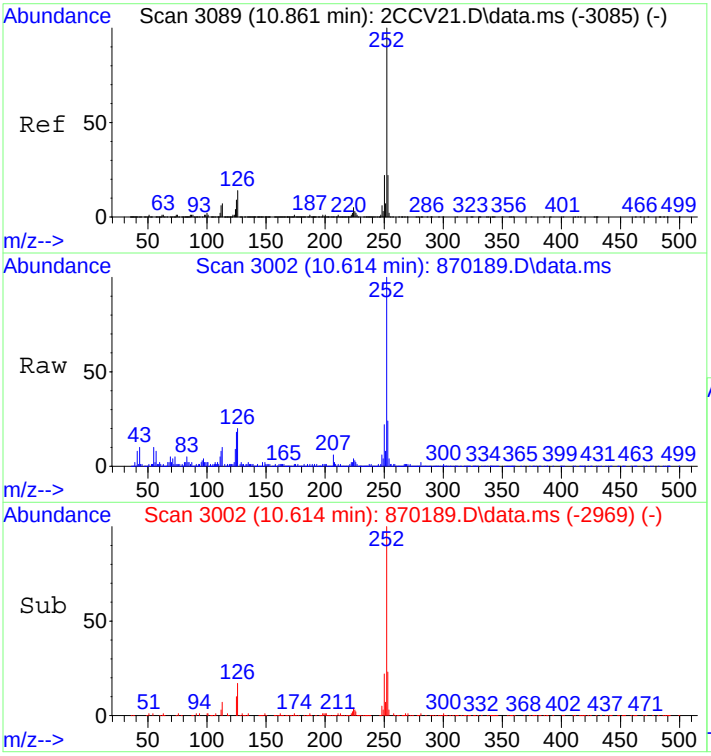
Tgt Ion:252 Resp: 635343

Ion	Ratio	Lower	Upper
252	100		
253	24.4	0.0	50.8
125	14.0	0.0	41.9



JJY
01/05/11

Before Manual Integration

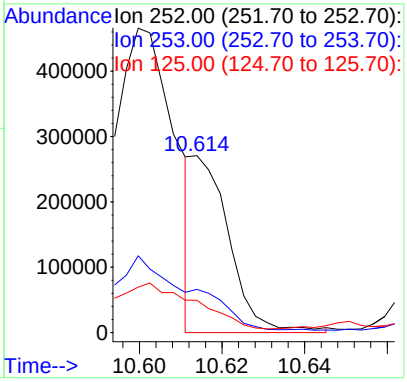


#87
B[k]fluoranth
Concen: 1.63 ug/mL m
RT: 10.614 min Scan# 3002
Delta R.T. -0.020 min
Lab File: 870189.D
Acq: 8 Dec 2010 20:59

Tgt Ion:252 Resp: 168999

Ion	Ratio	Lower	Upper
252	100		
253	24.4	0.0	50.8
125	18.2	0.0	41.3

RPN
12/09/10



JJY
01/05/11

After Manual Integration

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120810\870194.D Vial: 24
Acq On : 8 Dec 2010 21:59 Operator: RPN
Sample : 72359,870194,1 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 14 14:39:56 2010

RPN
12/14/10

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Tue Dec 14 14:32:19 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Manual Integration: Benzo(b)fluoranthene & Benzo(k) fluoranthene. Reason#3

Compound		R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards							
1) 14Diclbenzd4		4.388	152	697051	20.00	ug/mL	0.00
21) Naphthalened8		6.036	136	3301015	20.00	ug/mL	0.00
39) Acenaphthened10		7.545	164	1696069	20.00	ug/mL	0.00
63) Phenanthrd10		8.443	188	2548590	20.00	ug/mL	0.00
75) Chrysene-d12		9.915	240	2249120	20.00	ug/mL	-0.01
85) Perylene-d12		10.875	264	1751471	20.00	ug/mL	0.00
System Monitoring Compounds							
4) SURR2Flphenol		3.158	112	1159511	66.82	%REC	0.03
Spiked Amount	100.000	Range 20 - 110		Recovery = 66.82%			
7) SURRPhenol-d5		3.965	99	1549425	74.33	%REC	0.00
Spiked Amount	100.000	Range 10 - 115		Recovery = 74.33%			
22) SURRNitrbenzened5		5.082	82	501454	62.95	%REC	0.00
Spiked Amount	100.000	Range 40 - 110		Recovery = 62.95%			
44) SURR2Flbiphenyl		7.059	172	1552101	69.94	%REC	0.00
Spiked Amount	100.000	Range 50 - 110		Recovery = 69.94%			
62) SURR246Tribrphenl		8.062	330	412062	80.35	%REC	0.00
Spiked Amount	100.000	Range 40 - 125		Recovery = 80.35%			
78) SURRTerphenyl-d14		9.256	244	1221359	74.76	ug/mL	0.00
Spiked Amount	100.000	Range 50 - 135		Recovery = 74.76%			
Target Compounds							Qvalue
2) Ntrsdimeth		2.260	74	7550	0.3050	ug/mL#	5
3) Pyridine		2.348	79	1076	0.0245	ug/mL#	30
6) bis2Clethletr		4.065	93	9354	0.2243	ug/mL#	42
8) Phenol		3.976	94	25459	0.4955	ug/mL	94
12) 12Diclbenz		4.585	146	4997	0.0959	ug/mL	93
13) Benzyl alcoho		4.565	108	1209	0.9502	ug/mL#	5
15) 2Methylphenol		4.687	108	1383	0.0352	ug/mL	86
16) Ntrspyrrol		4.894	100	928	0.0447	ug/mL#	30
17) Acetophenone		4.883	105	27813	0.4744	ug/mL#	61
18) Hexaclethane		4.991	117	701	0.0383	ug/mL#	15
19) N-Ntrsdinprop		4.917	70	11388	0.4340	ug/mL#	34
20) 3&4Methylphenol		4.883	108	3752	0.0958	ug/mL#	2
24) Isophorone		5.460	82	6121	0.0681	ug/mL	80
25) 2-Nitrophenol		5.565	139	6017	0.1977	ug/mL	76
26) 24Dimthpheno		5.801	107	5051	0.1095	ug/mL#	34
27) bis2clethoxym		5.775	93	3752	0.0606	ug/mL#	31
30) Benzoic acid		5.724	105	44312	4.1528	ug/mL	79
31) Naphthalene		6.056	128	159397	0.9461	ug/mL	99
32) 4-Cl-aniline		6.059	127	20425	0.3232	ug/mL#	30
36) 4Cl3methylphe		6.619	107	2366	0.0575	ug/mL#	19
37) 2Methylnaphth		6.747	141	125871	1.3385	ug/mL	98
38) 1Methylnaphth		6.832	141	97914	1.0032	ug/mL	83
45) 2Clnaphthalen		7.150	162	2420	0.0247	ug/mL#	50
46) 2Nitroaniline		7.173	65	11660	0.5097	ug/mL#	14
47) Acnaphthylene		7.446	152	23482	0.1399	ug/mL	90
48) Dimethylphtha		7.363	163	5510	0.0479	ug/mL	96
49) 26Dinitrotolu		7.395	165	23440	0.9412	ug/mL#	38
50) Acenaphthene		7.565	153	5154	0.0488	ug/mL	92
51) 3Nitroaniline		7.466	138	29554	1.1088	ug/mL#	1
52) 24Dinitphenol		7.758	184	2607	2.5319	ug/mL#	1
53) Dibenzofuran		7.682	168	46180	0.3363	ug/mL	93
54) 24Dinitrotolu		7.676	165	3039	0.0986	ug/mL#	47
55) 4-Nitrophenol		7.645	109	3556	0.4163	ug/mL#	8
58) Fluorene		7.906	166	9509	0.0859	ug/mL	89

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120810\870194.D Vial: 24
Acq On : 8 Dec 2010 21:59 Operator: RPN
Sample : 72359,870194,1 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 14 14:39:56 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Tue Dec 14 14:32:19 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

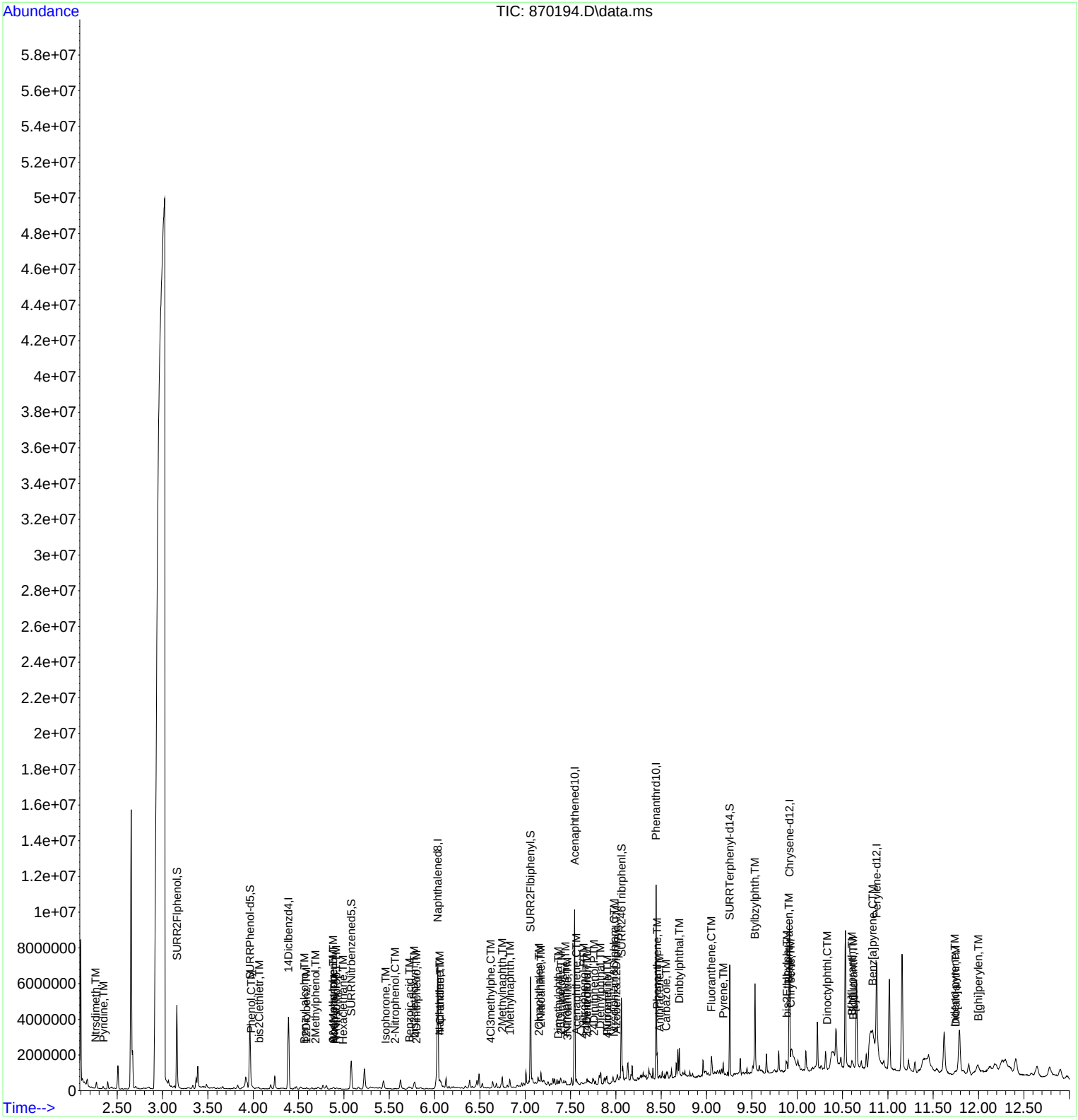
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
60) Diethylphthal	7.829	149	76513	0.6584 ug/mL	93
61) 4Nitroaniline	7.909	138	605	0.0231 ug/mL#	2
65) Ntrsdiphlam&Diphlam	7.980	169	9693	0.1280 ug/mL#	28
66) Azobenz&12Diphlhyd	8.006	182	38932	1.3613 ug/mL#	1
70) Phenanthrene	8.455	178	150814	1.1160 ug/mL	96
71) Anthracene	8.480	178	22332	0.1630 ug/mL	89
72) Carbazole	8.554	167	11835	0.1020 ug/mL	83
73) Dinbtylphthal	8.699	149	390068	2.4891 ug/mL	99
74) Fluoranthene	9.054	202	229040	1.6796 ug/mL	89
76) Benzidine	9.128	184	1567	Below Cal	73
77) Pyrene	9.185	202	182658	1.3619 ug/mL	97
79) Btylbzylphth	9.534	149	11508	0.1765 ug/mL	74
80) 33Diclbnzidin	9.935	252	2270	Below Cal	84
81) B[a]anthracen	9.907	228	128966	1.0310 ug/mL	95
82) Chrysene	9.929	228	123907	1.0339 ug/mL	98
83) bis2Ethlhxlph	9.887	149	104934	1.1071 ug/mL	98
84) Dinoctylphthl	10.333	149	7471	0.0444 ug/mL	75
86) B[b]fluoranth	10.603	252	166308m	1.6120 ug/mL	
87) B[k]fluoranth	10.620	252	43694m	0.4484 ug/mL	
88) Benz[a]pyrene	10.833	252	78807	0.8369 ug/mL	89
89) Indeno-pyrene	11.739	276	47049	0.4921 ug/mL	90
90) Dib[ah]anthr	11.748	278	12792	0.1649 ug/mL	65
91) B[ghi]perylen	11.998	276	40840	0.5142 ug/mL	92

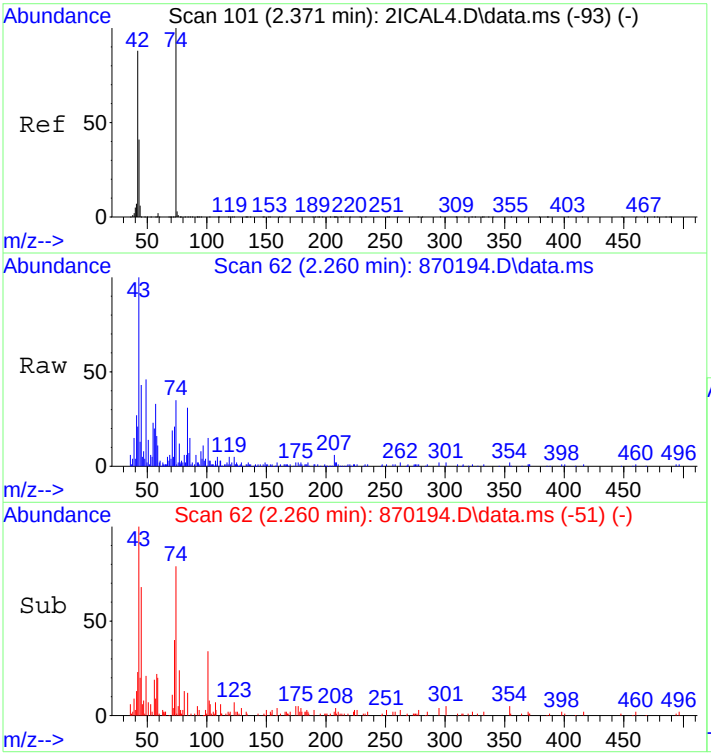
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120810\870194.D Vial: 24
Acq On : 8 Dec 2010 21:59 Operator: RPN
Sample : 72359,870194,1 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 14 14:39:56 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Tue Dec 14 14:32:19 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

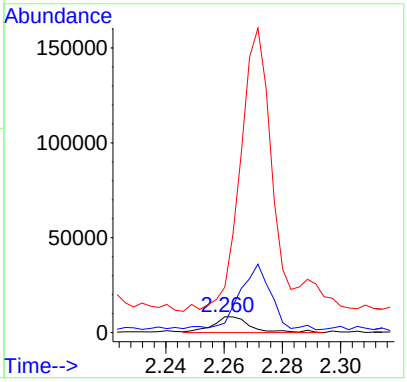


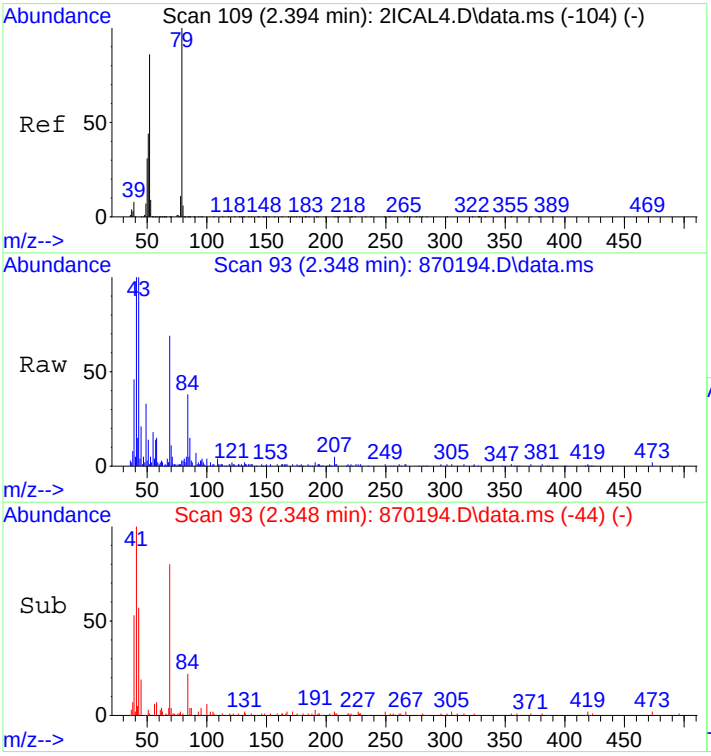


#2
Ntrsdimeth
Concen: 0.31 ug/mL
RT: 2.260 min Scan# 62
Delta R.T. -0.090 min
Lab File: 870194.D
Acq: 8 Dec 10 9:59 pm

Tgt Ion: 74 Resp: 7550

Ion	Ratio	Lower	Upper
74	100		
42	38.6	82.4	142.4#
43	153.6	17.7	77.7#

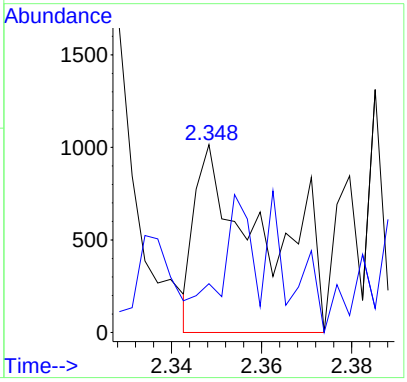


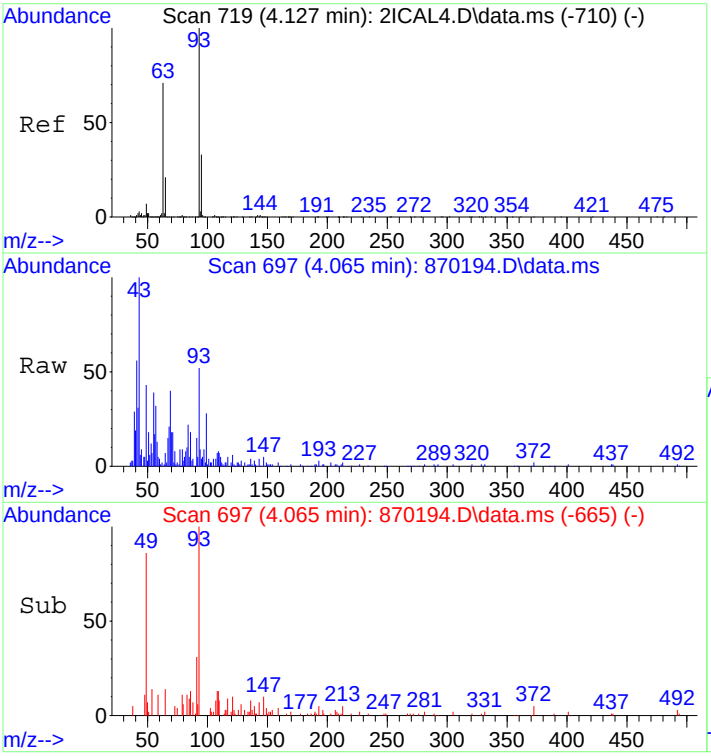


#3
Pyridine
Concen: 0.02 ug/mL
RT: 2.348 min Scan# 93
Delta R.T. -0.011 min
Lab File: 870194.D
Acq: 8 Dec 10 9:59 pm

Tgt Ion: 79 Resp: 1076

Ion	Ratio	Lower	Upper
79	100		
52	26.0	62.6	122.6#

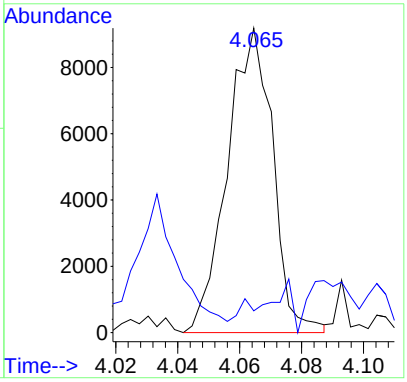


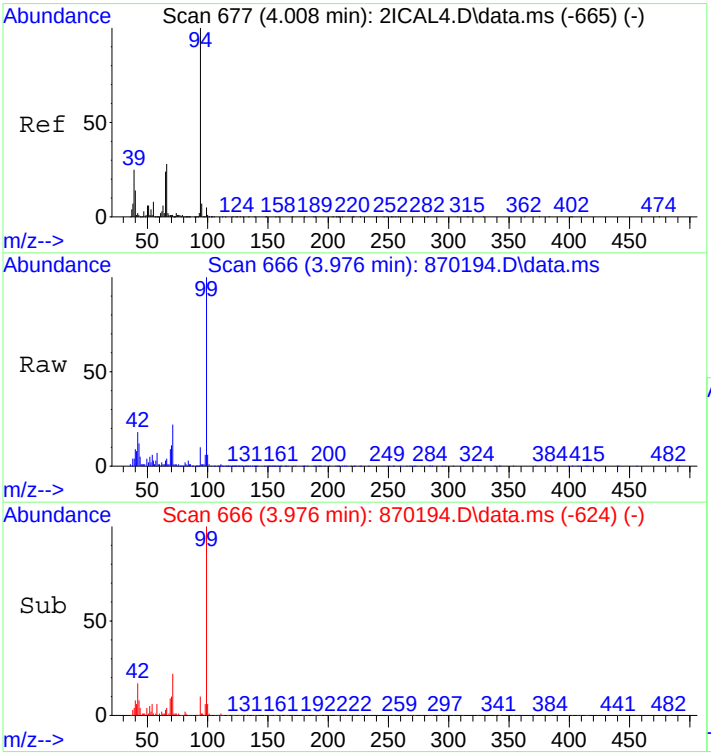


#6
bis2Clethletr
Concen: 0.22 ug/mL
RT: 4.065 min Scan# 697
Delta R.T. -0.025 min
Lab File: 870194.D
Acq: 8 Dec 10 9:59 pm

Tgt Ion: 93 Resp: 9354

Ion	Ratio	Lower	Upper
93	100		
95	0.0	2.4	62.4#

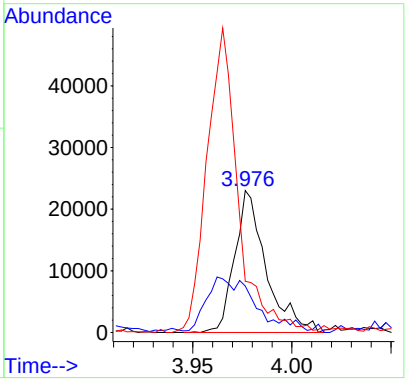


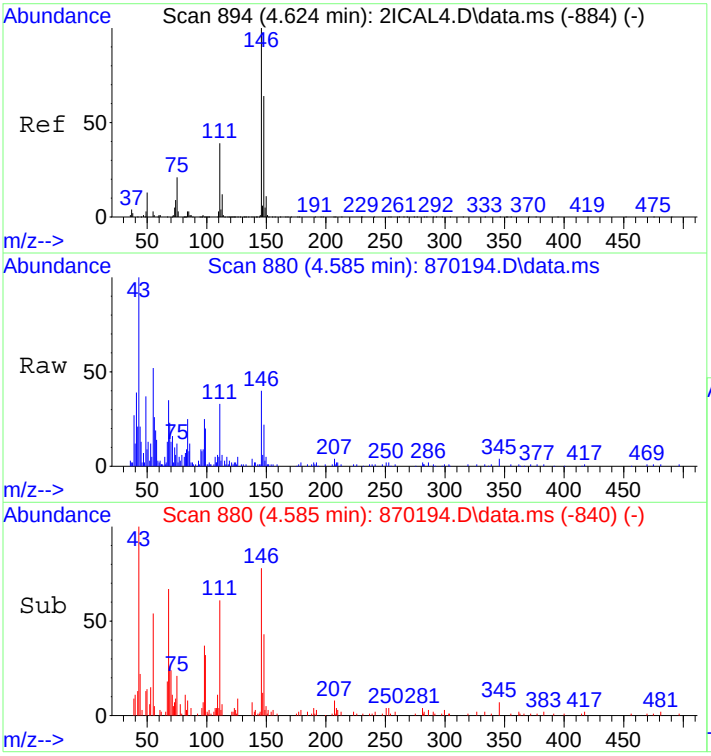


#8
Phenol
Concen: 0.50 ug/mL
RT: 3.976 min Scan# 666
Delta R.T. 0.003 min
Lab File: 870194.D
Acq: 8 Dec 10 9:59 pm

Tgt Ion: 94 Resp: 25459

Ion	Ratio	Lower	Upper
94	100		
65	32.7	1.0	61.0
66	32.6	8.1	68.1

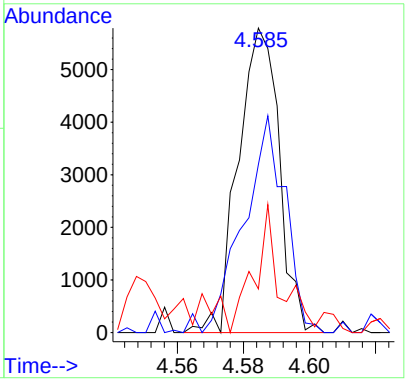


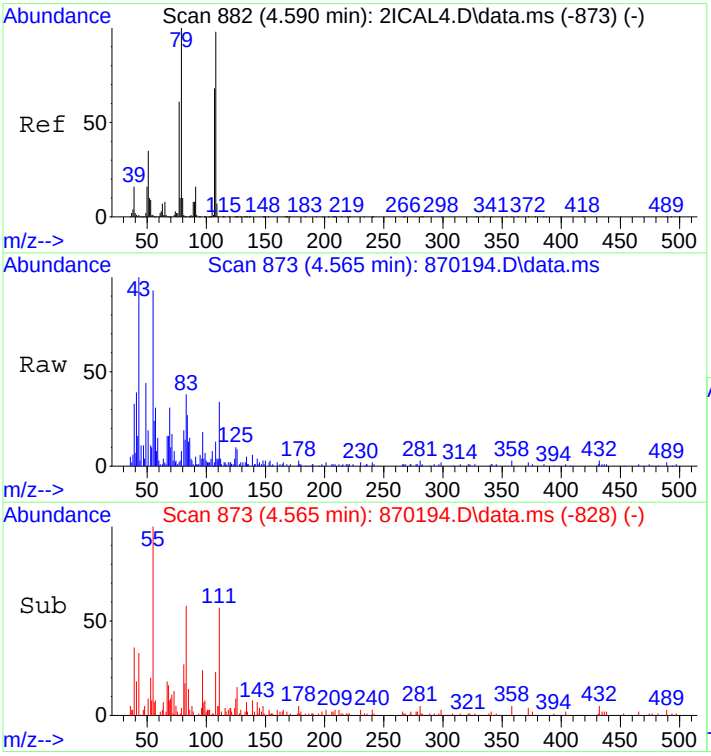


#12
12Diclbenz
Concen: 0.10 ug/mL
RT: 4.585 min Scan# 880
Delta R.T. -0.003 min
Lab File: 870194.D
Acq: 8 Dec 10 9:59 pm

Tgt Ion:146 Resp: 4997

Ion	Ratio	Lower	Upper
146	100		
148	55.2	29.2	89.2
113	7.7	0.0	42.9

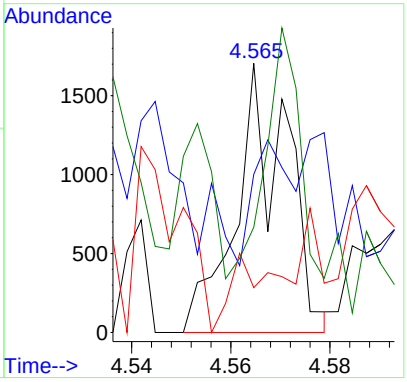


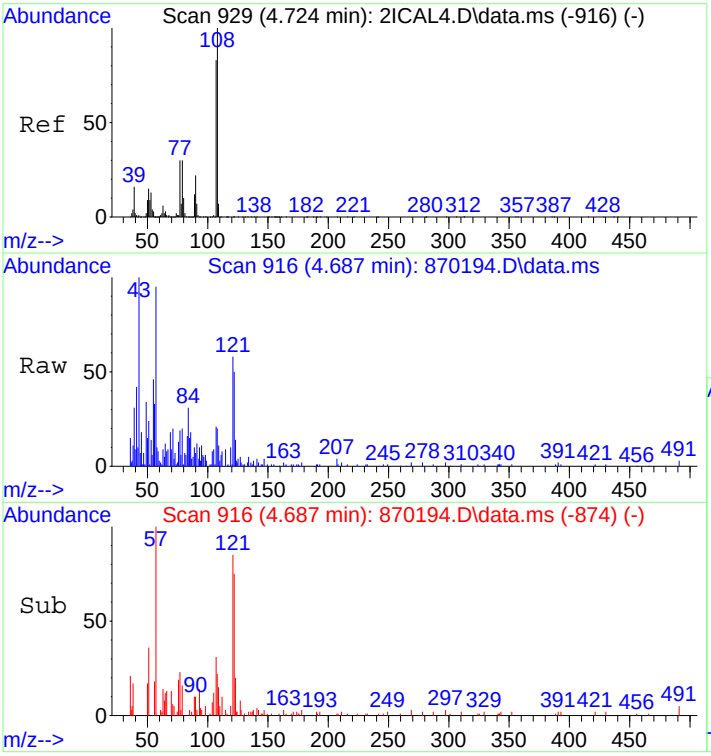


#13
Benzyl alcoho
Concen: 0.95 ug/mL
RT: 4.565 min Scan# 873
Delta R.T. 0.011 min
Lab File: 870194.D
Acq: 8 Dec 10 9:59 pm

Tgt Ion:108 Resp: 1209

Ion	Ratio	Lower	Upper
108	100		
79	3.1	104.2	164.2#
77	0.0	55.1	115.1#
91	19.1	0.0	50.3

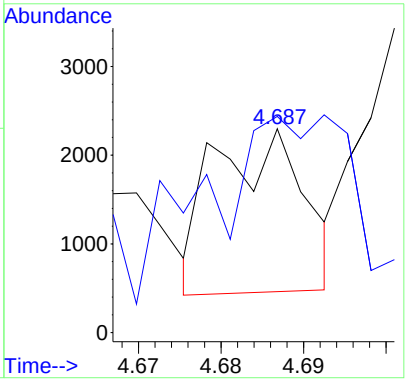


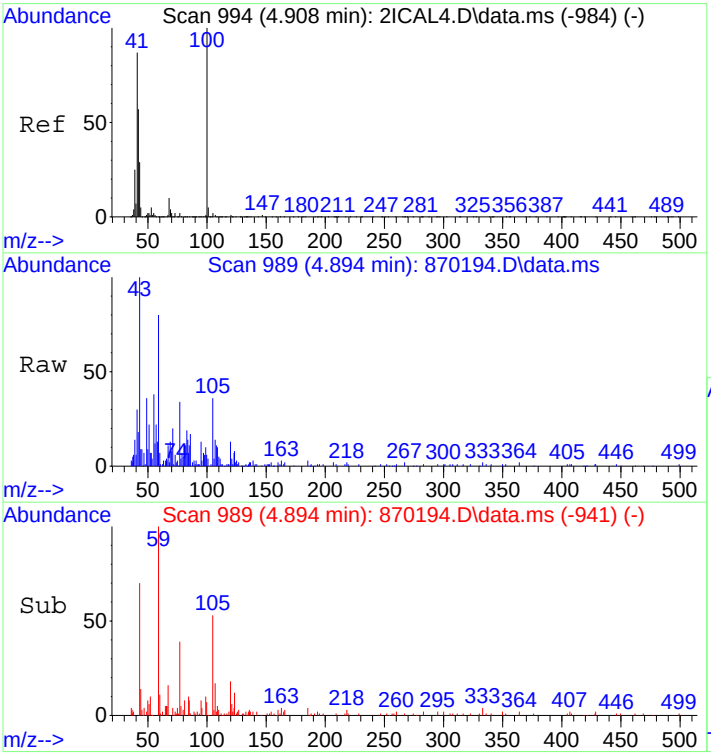


#15
2Methylphenol
Concen: 0.04 ug/mL
RT: 4.687 min Scan# 916
Delta R.T. 0.003 min
Lab File: 870194.D
Acq: 8 Dec 10 9:59 pm

Tgt Ion:108 Resp: 1383

Ion	Ratio	Lower	Upper
108	100		
107	74.6	57.3	117.3

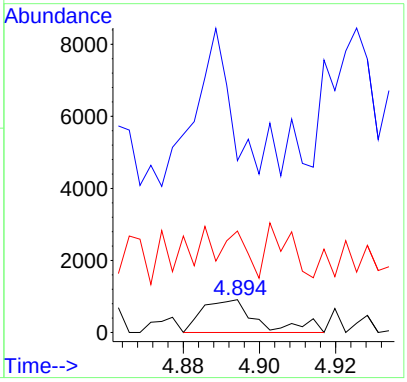


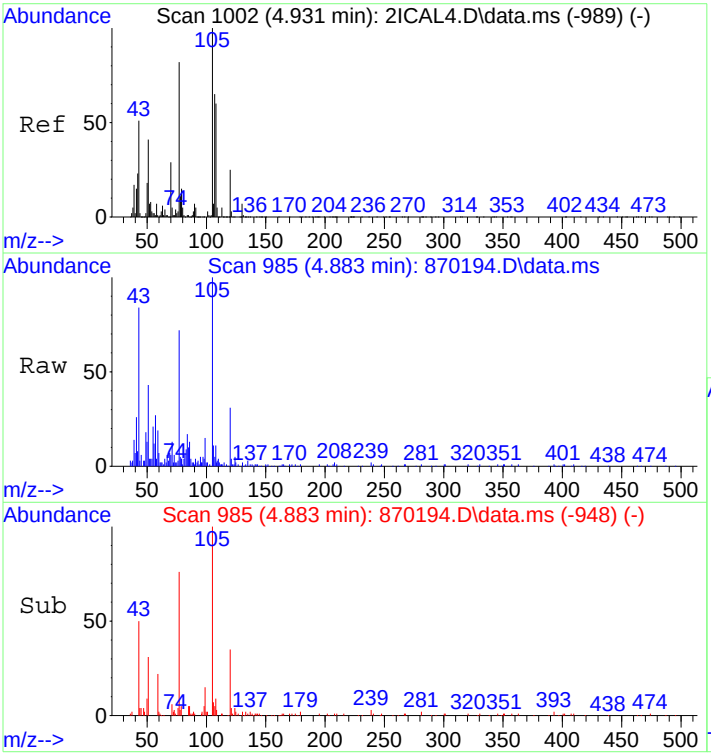


#16
Ntrspyrrol
Concen: 0.04 ug/mL
RT: 4.894 min Scan# 989
Delta R.T. 0.020 min
Lab File: 870194.D
Acq: 8 Dec 10 9:59 pm

Tgt Ion:100 Resp: 928

Ion	Ratio	Lower	Upper
100	100		
41	0.0	76.4	136.4#
42	55.5	46.7	106.7

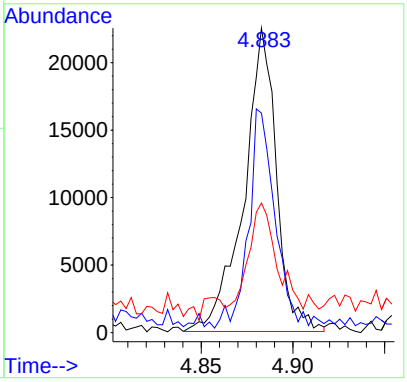


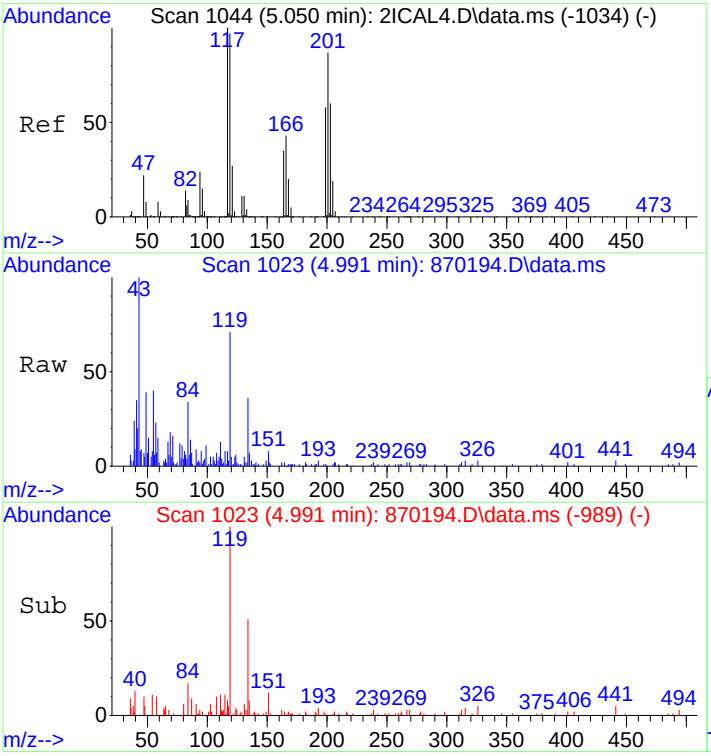


#17
Acetophenone
Concen: 0.47 ug/mL
RT: 4.883 min Scan# 985
Delta R.T. -0.011 min
Lab File: 870194.D
Acq: 8 Dec 10 9:59 pm

Tgt Ion:105 Resp: 27813

Ion	Ratio	Lower	Upper
105	100		
77	58.3	72.2	132.2#
51	28.9	18.8	78.8

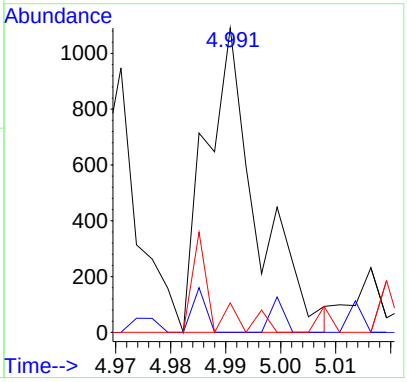


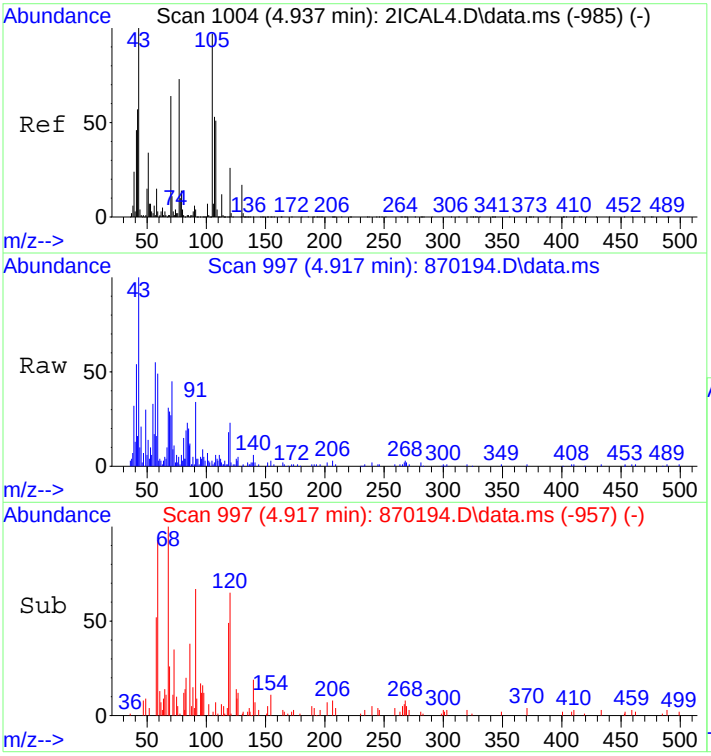


#18
Hexaclethane
Concen: 0.04 ug/mL
RT: 4.991 min Scan# 1023
Delta R.T. -0.020 min
Lab File: 870194.D
Acq: 8 Dec 10 9:59 pm

Tgt Ion:117 Resp: 701

Ion	Ratio	Lower	Upper
117	100		
201	0.0	64.1	124.1#
199	9.7	28.3	88.3#

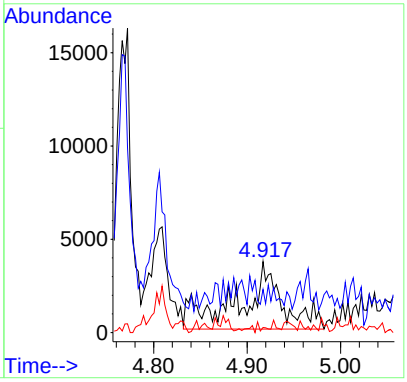


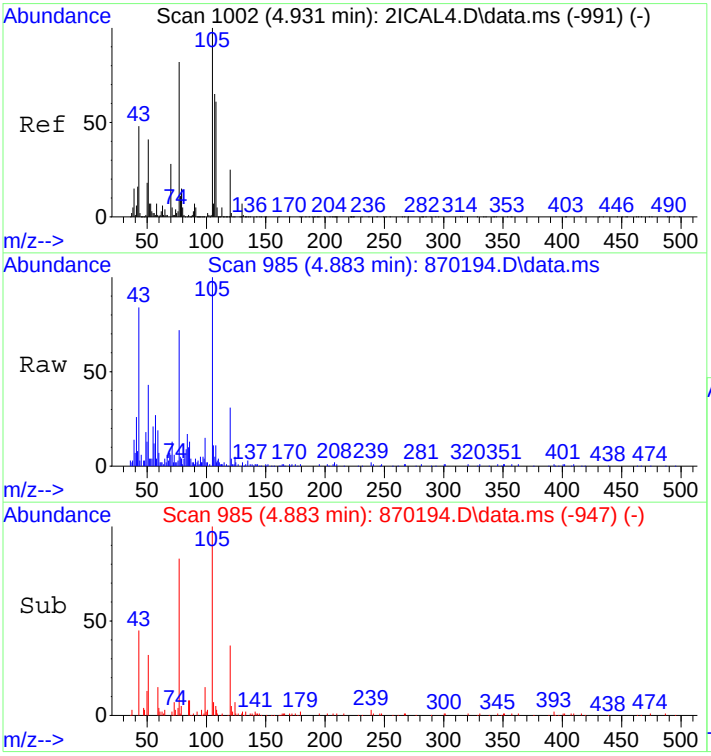


#19
N-Ntrsdinprop
Concen: 0.43 ug/mL
RT: 4.917 min Scan# 997
Delta R.T. 0.014 min
Lab File: 870194.D
Acq: 8 Dec 10 9:59 pm

Tgt Ion: 70 Resp: 11388

Ion	Ratio	Lower	Upper
70	100		
42	19.5	54.3	114.3#
113	0.0	0.0	43.5

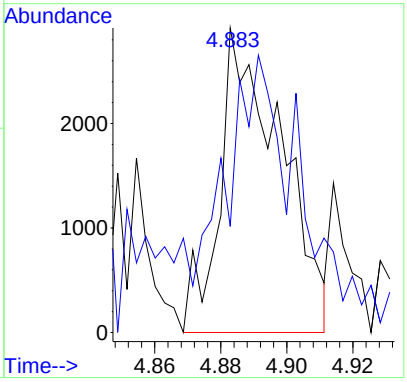


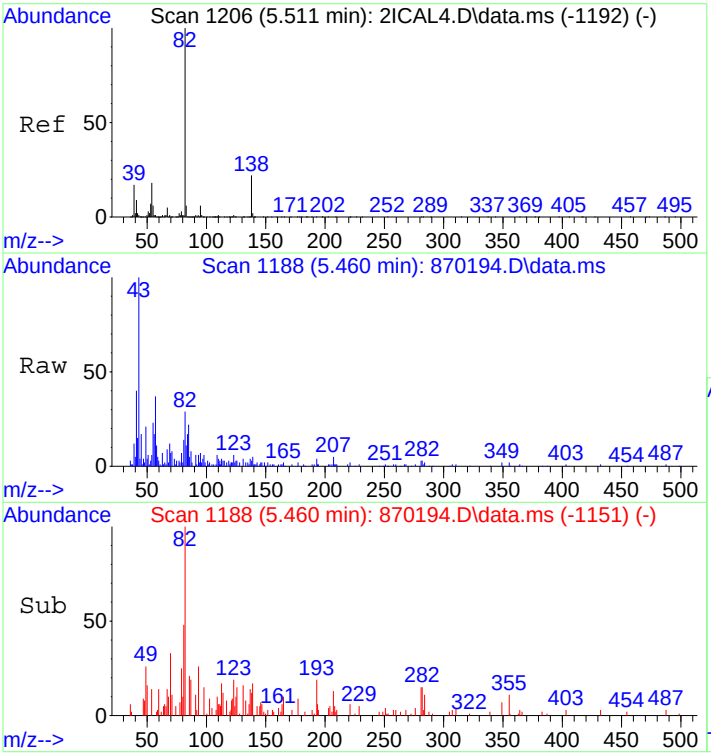


#20
3&4Methylphenol
Concen: 0.10 ug/mL
RT: 4.883 min Scan# 985
Delta R.T. -0.011 min
Lab File: 870194.D
Acq: 8 Dec 10 9:59 pm

Tgt Ion:108 Resp: 3752

Ion	Ratio	Lower	Upper
108	100		
107	3.9	74.6	134.6#

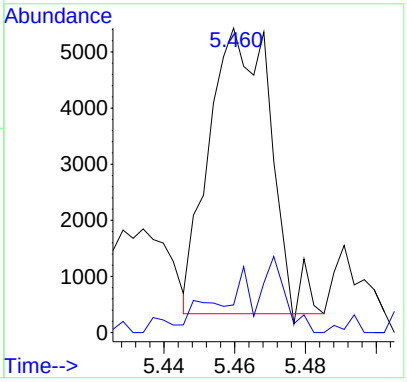


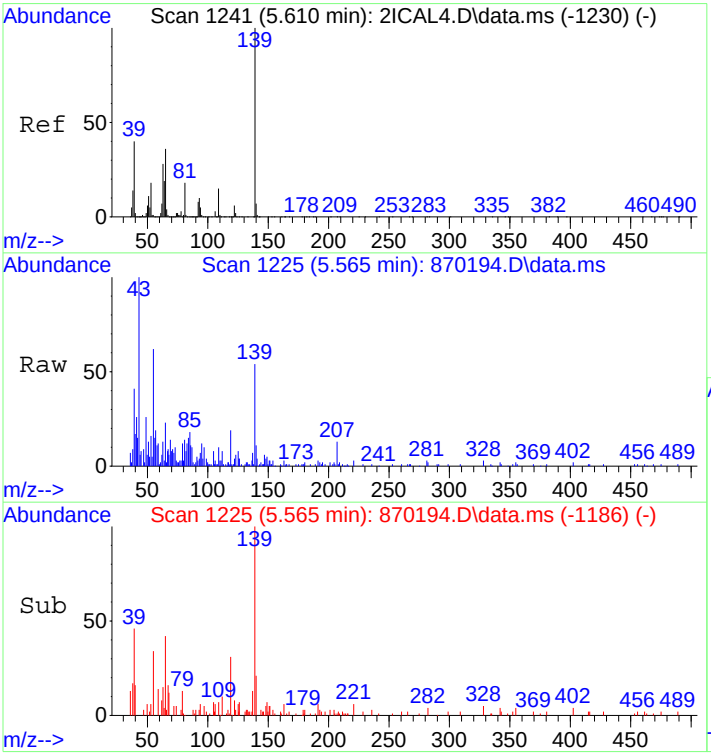


#24
Isophorone
Concen: 0.07 ug/mL
RT: 5.460 min Scan# 1188
Delta R.T. -0.014 min
Lab File: 870194.D
Acq: 8 Dec 10 9:59 pm

Tgt Ion: 82 Resp: 6121

Ion	Ratio	Lower	Upper
82	100		
138	9.7	0.0	48.8

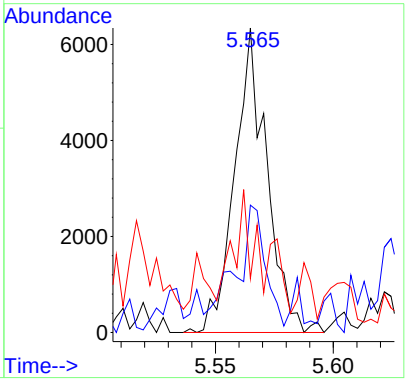


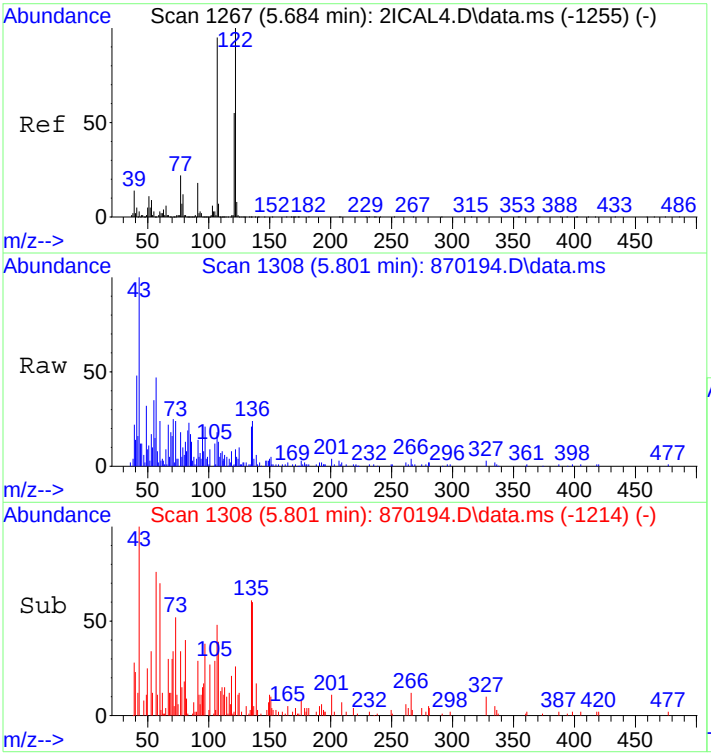


#25
2-Nitrophenol
Concen: 0.20 ug/mL
RT: 5.565 min Scan# 1225
Delta R.T. -0.006 min
Lab File: 870194.D
Acq: 8 Dec 10 9:59 pm

Tgt Ion:139 Resp: 6017

Ion	Ratio	Lower	Upper
139	100		
65	37.3	20.9	80.9
109	10.1	0.0	57.4

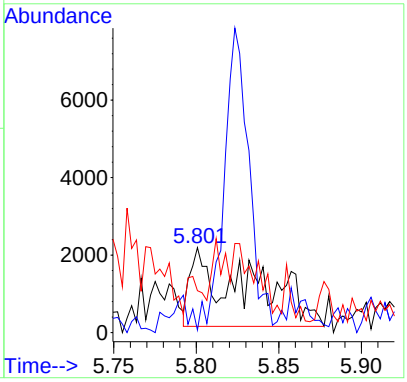


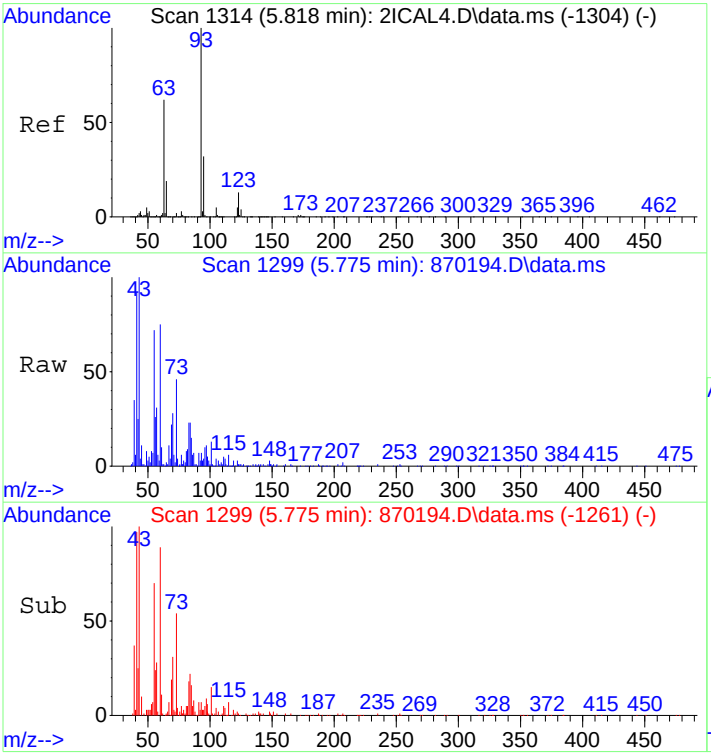


#26
24Dimthpheno
Concen: 0.11 ug/mL
RT: 5.801 min Scan# 1308
Delta R.T. 0.151 min
Lab File: 870194.D
Acq: 8 Dec 10 9:59 pm

Tgt Ion:107 Resp: 5051

Ion	Ratio	Lower	Upper
107	100		
121	0.0	22.2	82.2#
122	30.2	56.3	116.3#

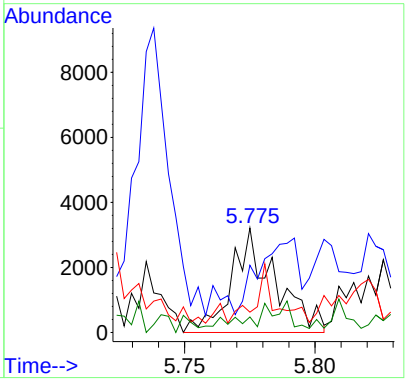


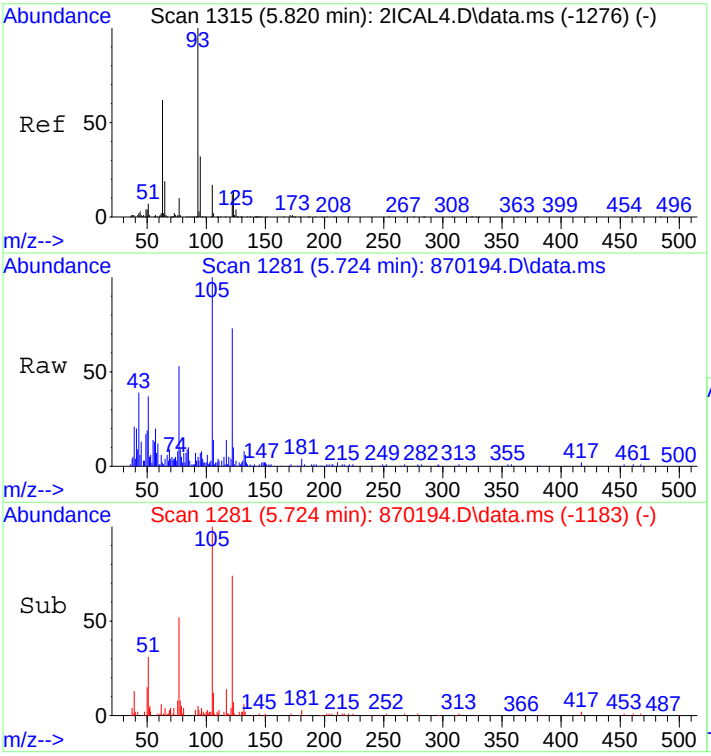


#27
bis2clethoxym
Concen: 0.06 ug/mL
RT: 5.775 min Scan# 1299
Delta R.T. -0.008 min
Lab File: 870194.D
Acq: 8 Dec 10 9:59 pm

Tgt Ion: 93 Resp: 3752

Ion	Ratio	Lower	Upper
93	100		
95	1.3	1.9	61.9#
123	0.0	0.0	42.6
63	6.8	46.9	106.9#

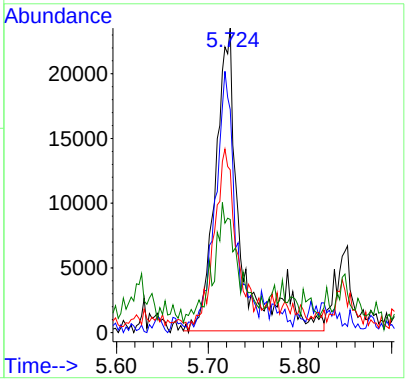


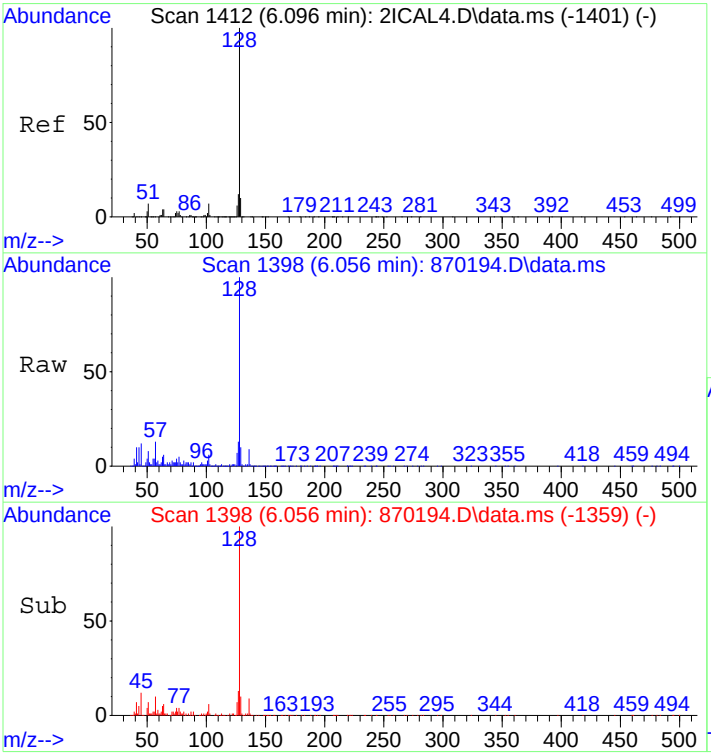


#30
Benzoic acid
Concen: 4.15 ug/mL
RT: 5.724 min Scan# 1281
Delta R.T. 0.004 min
Lab File: 870194.D
Acq: 8 Dec 10 9:59 pm

Tgt Ion:105 Resp: 44312

Ion	Ratio	Lower	Upper
105	100		
122	71.6	54.1	114.1
77	49.7	45.9	105.9
51	34.1	17.6	77.6

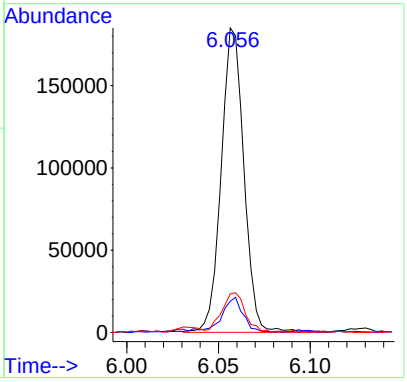


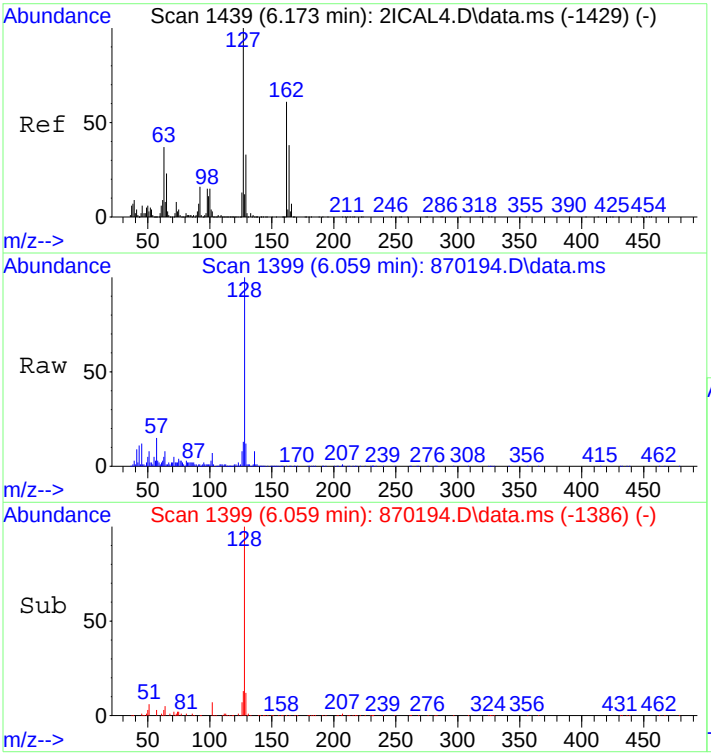


#31
Naphthalene
Concen: 0.95 ug/mL
RT: 6.056 min Scan# 1398
Delta R.T. -0.006 min
Lab File: 870194.D
Acq: 8 Dec 10 9:59 pm

Tgt Ion:128 Resp: 159397

Ion	Ratio	Lower	Upper
128	100		
129	9.8	0.0	40.3
127	12.4	0.0	41.9

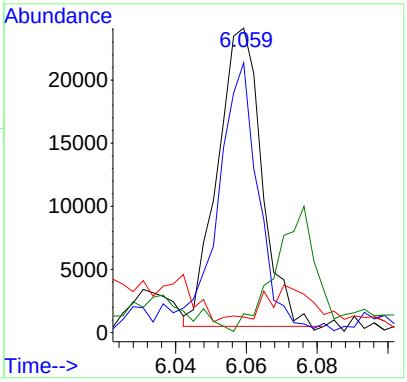


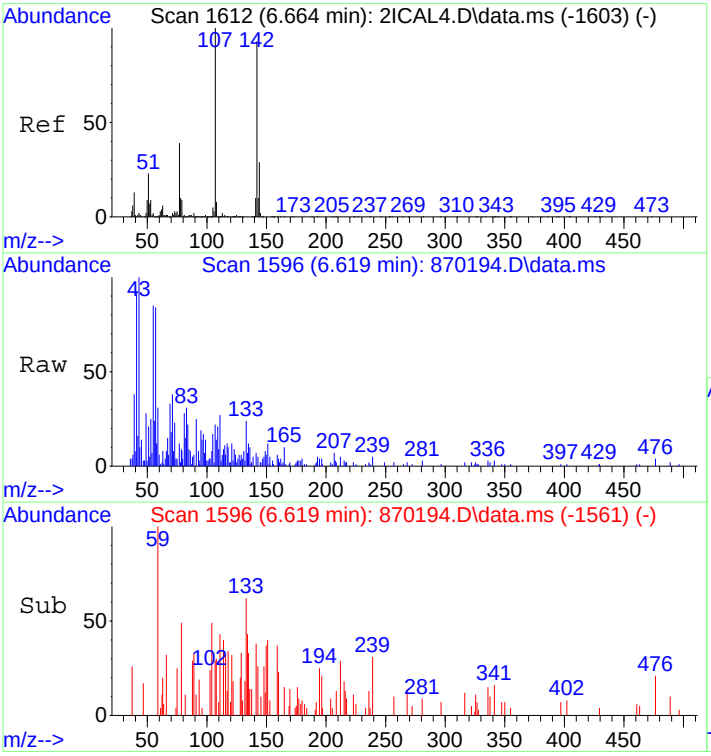


#32
4-Cl-aniline
Concen: 0.32 ug/mL
RT: 6.059 min Scan# 1399
Delta R.T. -0.079 min
Lab File: 870194.D
Acq: 8 Dec 10 9:59 pm

Tgt Ion:127 Resp: 20425

Ion	Ratio	Lower	Upper
127	100		
129	87.3	1.8	61.8#
65	0.0	1.6	61.6#
92	0.0	0.0	48.2

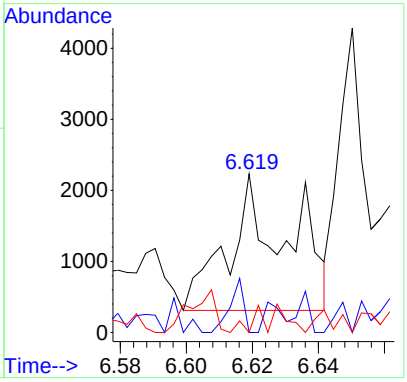


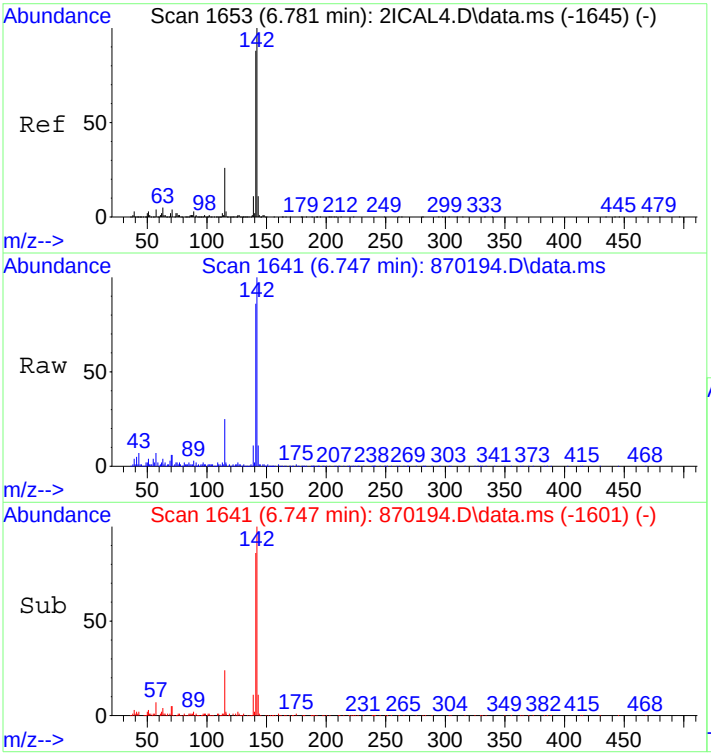


#36
4Cl3methylphe
Concen: 0.06 ug/mL
RT: 6.619 min Scan# 1596
Delta R.T. -0.017 min
Lab File: 870194.D
Acq: 8 Dec 10 9:59 pm

Tgt Ion:107 Resp: 2366

Ion	Ratio	Lower	Upper
107	100		
142	0.0	50.0	110.0#
144	0.0	0.0	56.8

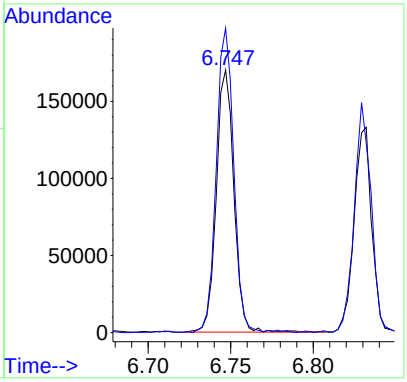


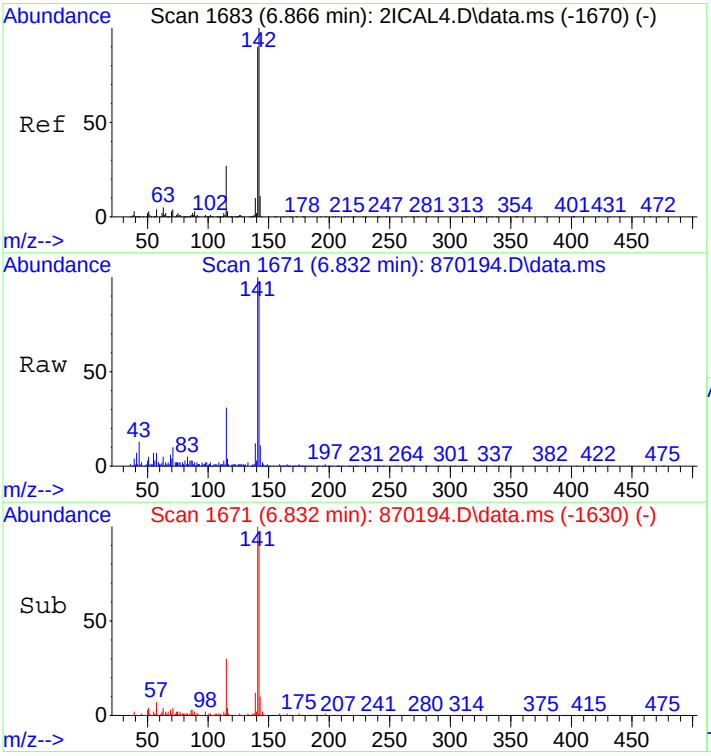


#37
2Methylnaphth
Concen: 1.34 ug/mL
RT: 6.747 min Scan# 1641
Delta R.T. -0.003 min
Lab File: 870194.D
Acq: 8 Dec 10 9:59 pm

Tgt Ion:141 Resp: 125871

Ion	Ratio	Lower	Upper
141	100		
142	116.0	83.7	143.7

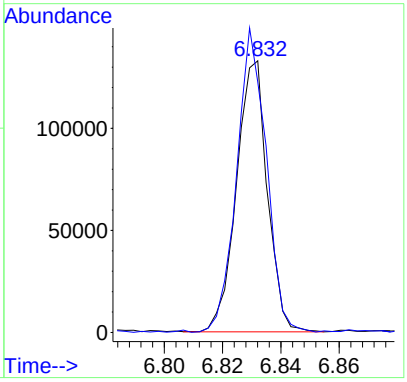


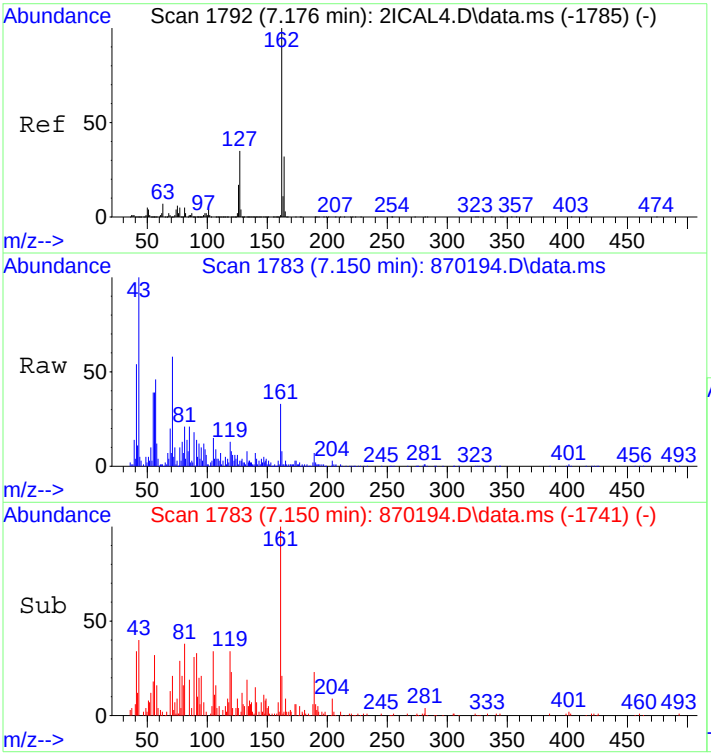


#38
1Methylnaphth
Concen: 1.00 ug/mL
RT: 6.832 min Scan# 1671
Delta R.T. -0.003 min
Lab File: 870194.D
Acq: 8 Dec 10 9:59 pm

Tgt Ion:141 Resp: 97914

Ion	Ratio	Lower	Upper
141	100		
142	91.9	79.5	139.5

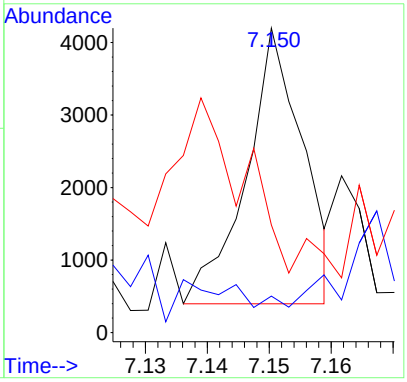


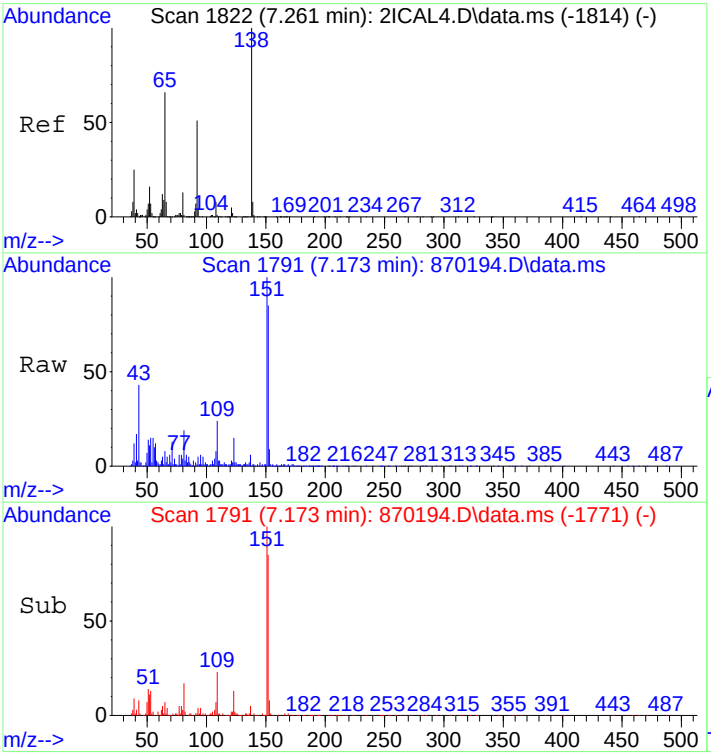


#45
2Clnaphthalen
Concen: 0.02 ug/mL
RT: 7.150 min Scan# 1783
Delta R.T. 0.003 min
Lab File: 870194.D
Acq: 8 Dec 10 9:59 pm

Tgt Ion:162 Resp: 2420

Ion	Ratio	Lower	Upper
162	100		
164	0.0	2.5	62.5#
127	11.1	7.1	67.1

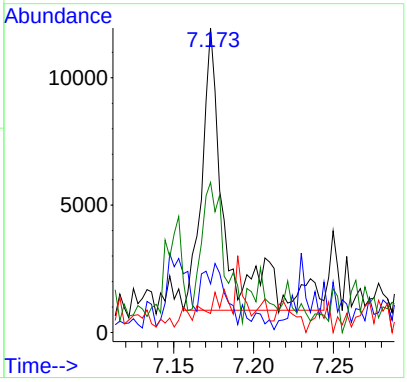


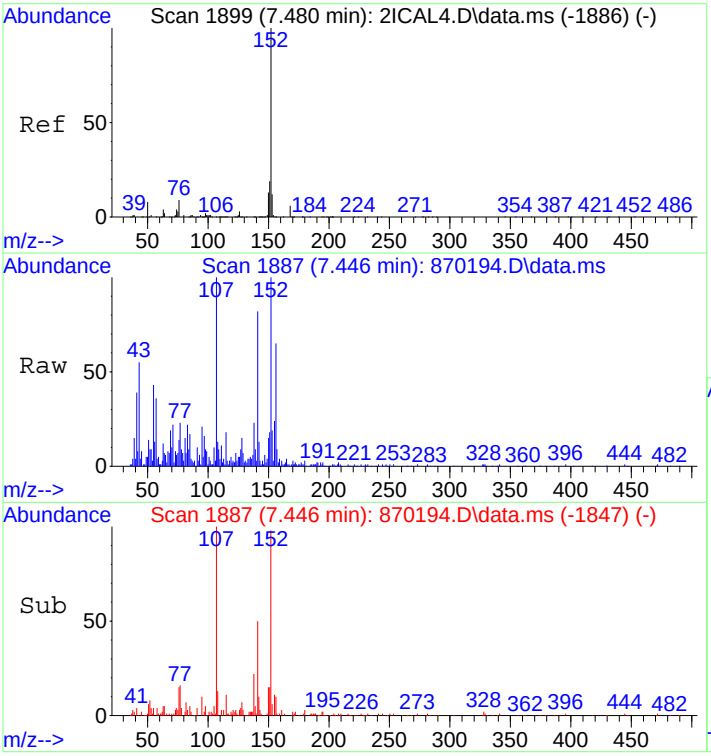


#46
2Nitroaniline
Concen: 0.51 ug/mL
RT: 7.173 min Scan# 1791
Delta R.T. -0.060 min
Lab File: 870194.D
Acq: 8 Dec 10 9:59 pm

Tgt Ion: 65 Resp: 11660

Ion	Ratio	Lower	Upper
65	100		
92	0.0	32.1	92.1#
138	1.8	73.8	133.8#
80	47.1	0.0	55.1

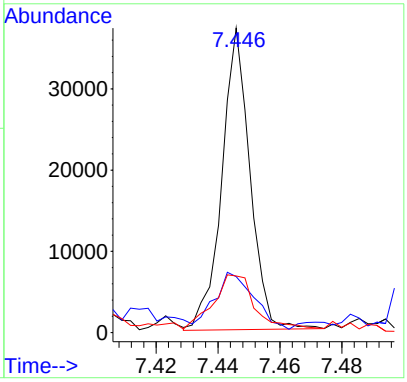


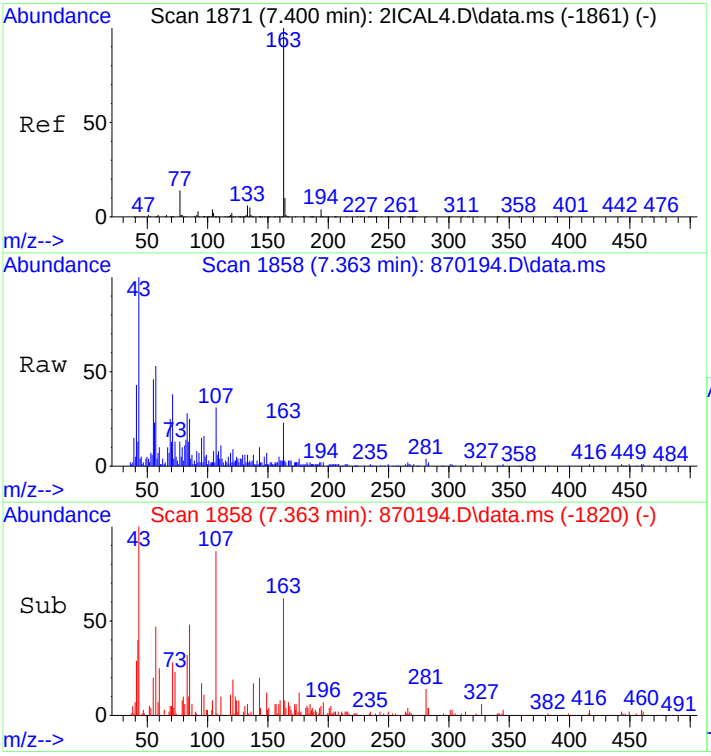


#47
Acnaphthylene
Concen: 0.14 ug/mL
RT: 7.446 min Scan# 1887
Delta R.T. -0.003 min
Lab File: 870194.D
Acq: 8 Dec 10 9:59 pm

Tgt Ion:152 Resp: 23482

Ion	Ratio	Lower	Upper
152	100		
151	15.3	0.0	49.5
153	17.7	0.0	43.0

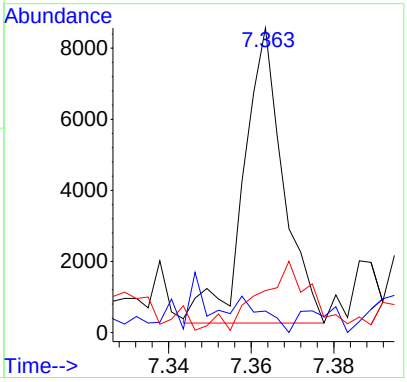


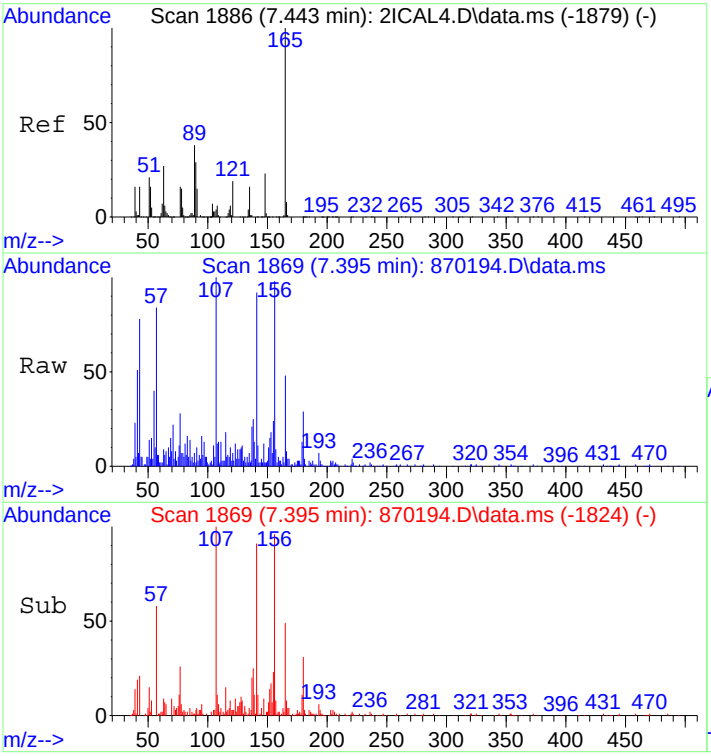


#48
Dimethylphtha
Concen: 0.05 ug/mL
RT: 7.363 min Scan# 1858
Delta R.T. -0.008 min
Lab File: 870194.D
Acq: 8 Dec 10 9:59 pm

Tgt Ion:163 Resp: 5510

Ion	Ratio	Lower	Upper
163	100		
194	6.2	0.0	34.0
164	9.0	0.0	40.3

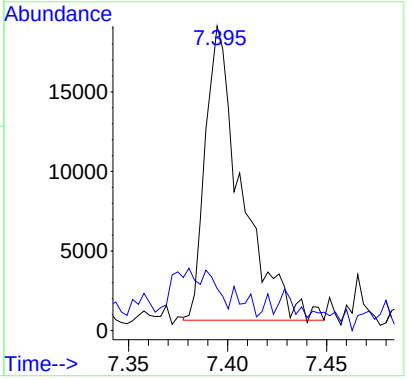


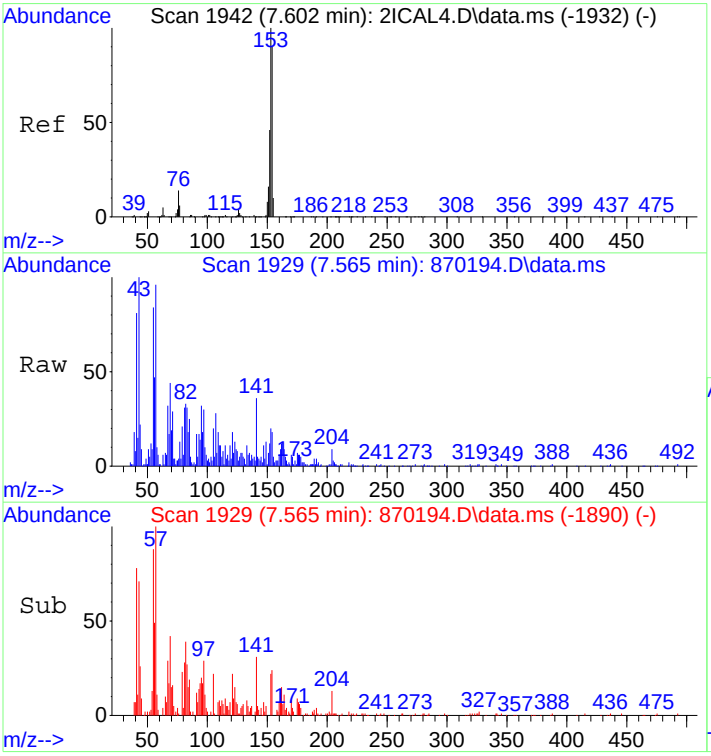


#49
26Dinitrotolu
Concen: 0.94 ug/mL
RT: 7.395 min Scan# 1869
Delta R.T. -0.017 min
Lab File: 870194.D
Acq: 8 Dec 10 9:59 pm

Tgt Ion:165 Resp: 23440

Ion	Ratio	Lower	Upper
165	100		
89	8.1	20.8	80.8#

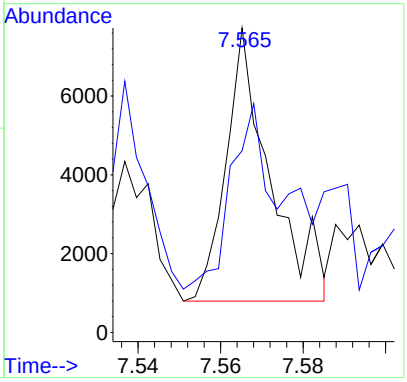


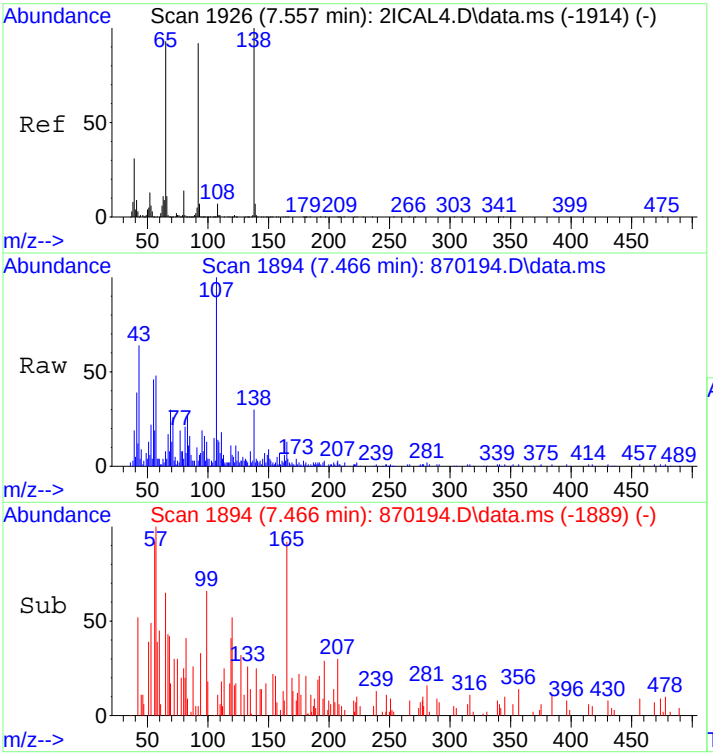


#50
Acenaphthene
Concen: 0.05 ug/mL
RT: 7.565 min Scan# 1929
Delta R.T. -0.006 min
Lab File: 870194.D
Acq: 8 Dec 10 9:59 pm

Tgt Ion:153 Resp: 5154

Ion	Ratio	Lower	Upper
153	100		
152	50.6	15.5	75.5

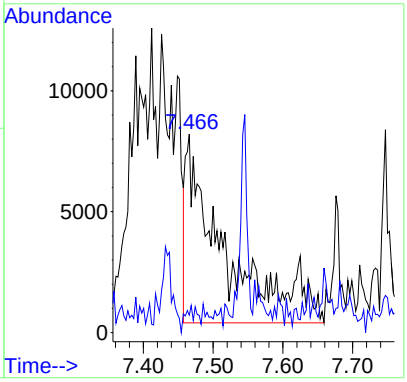


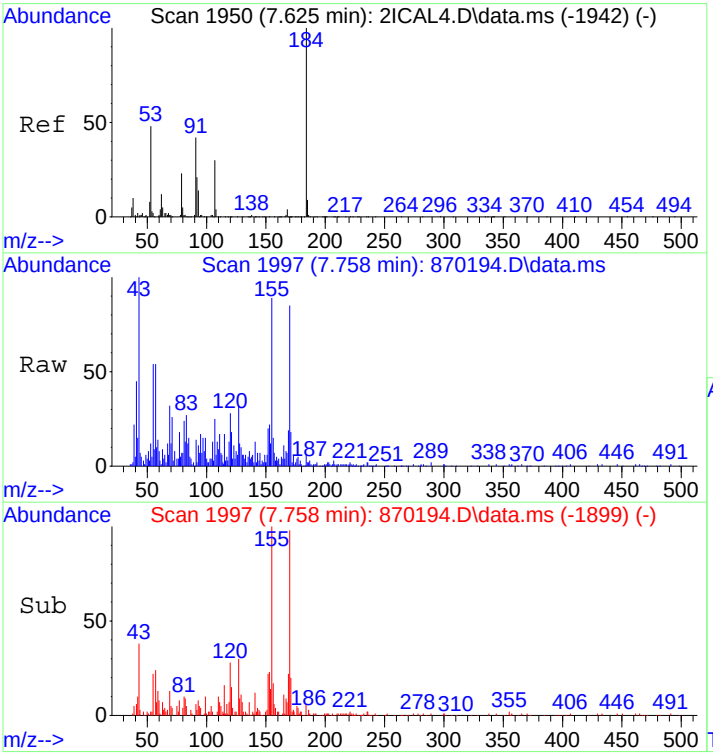


#51
3Nitroaniline
Concen: 1.11 ug/mL
RT: 7.466 min Scan# 1894
Delta R.T. -0.060 min
Lab File: 870194.D
Acq: 8 Dec 10 9:59 pm

Tgt Ion:138 Resp: 29554

Ion	Ratio	Lower	Upper
138	100		
92	0.0	74.6	134.6#

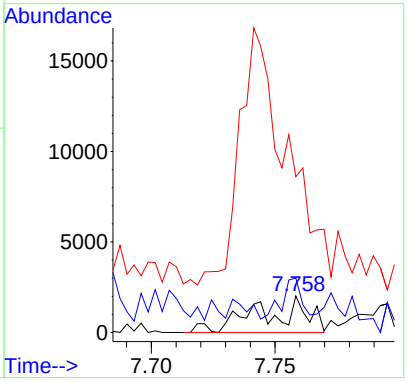


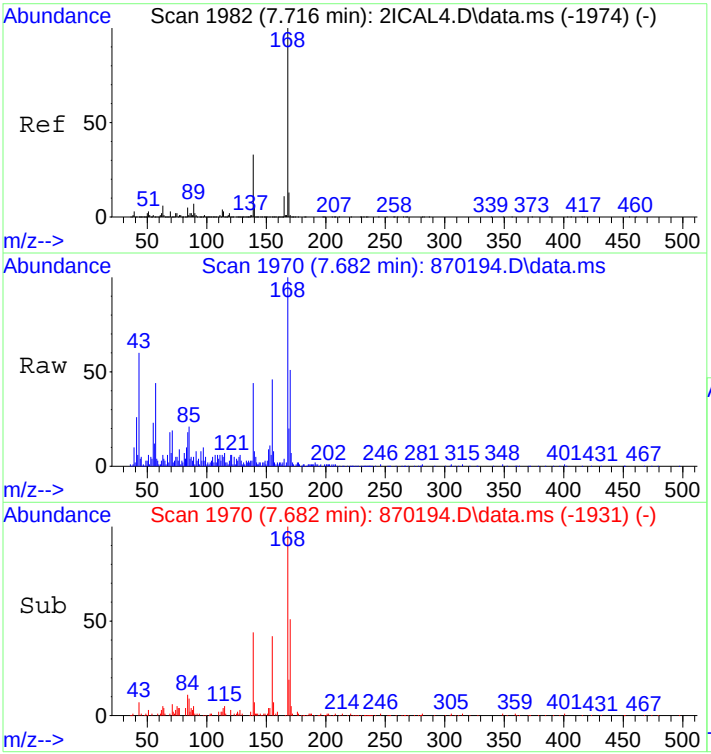


#52
24Dinitphenol
Concen: 2.53 ug/mL
RT: 7.758 min Scan# 1997
Delta R.T. 0.162 min
Lab File: 870194.D
Acq: 8 Dec 10 9:59 pm

Tgt Ion:184 Resp: 2607

Ion	Ratio	Lower	Upper
184	100		
63	149.3	44.6	104.6#
107	428.1	13.0	73.0#

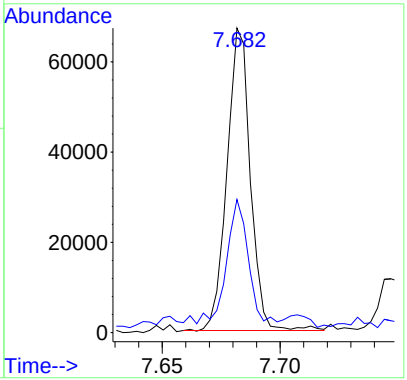


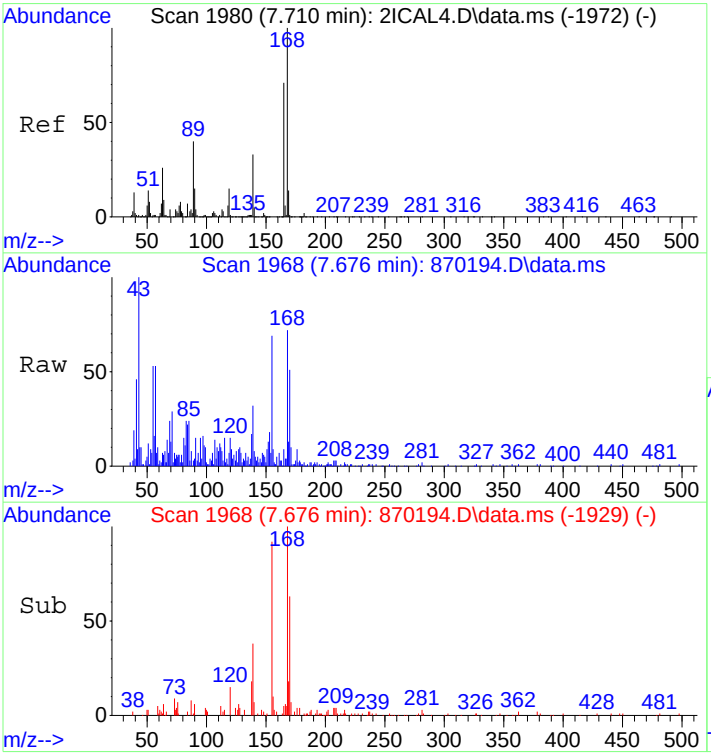


#53
Dibenzofuran
Concen: 0.34 ug/mL
RT: 7.682 min Scan# 1970
Delta R.T. -0.006 min
Lab File: 870194.D
Acq: 8 Dec 10 9:59 pm

Tgt Ion:168 Resp: 46180

Ion	Ratio	Lower	Upper
168	100		
139	41.5	7.1	67.1

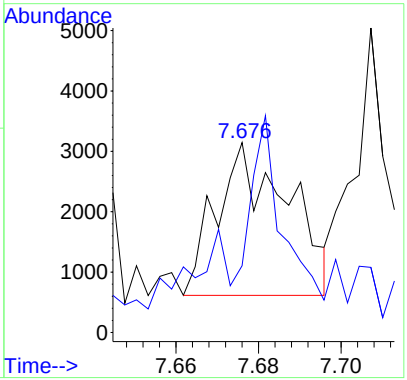


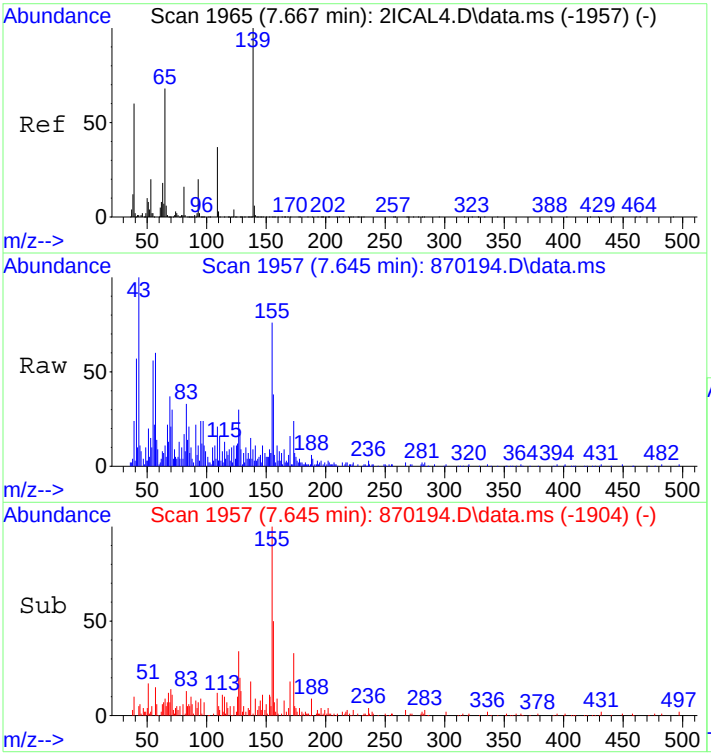


#54
24Dinitrotolu
Concen: 0.10 ug/mL
RT: 7.676 min Scan# 1968
Delta R.T. -0.006 min
Lab File: 870194.D
Acq: 8 Dec 10 9:59 pm

Tgt Ion:165 Resp: 3039

Ion	Ratio	Lower	Upper
165	100		
89	27.5	41.4	101.4#

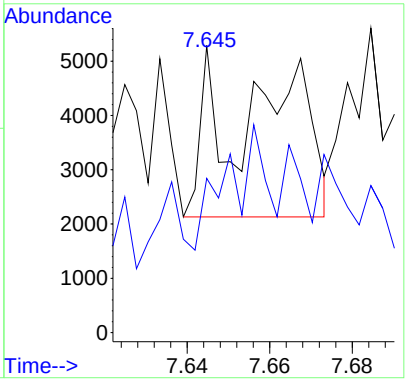


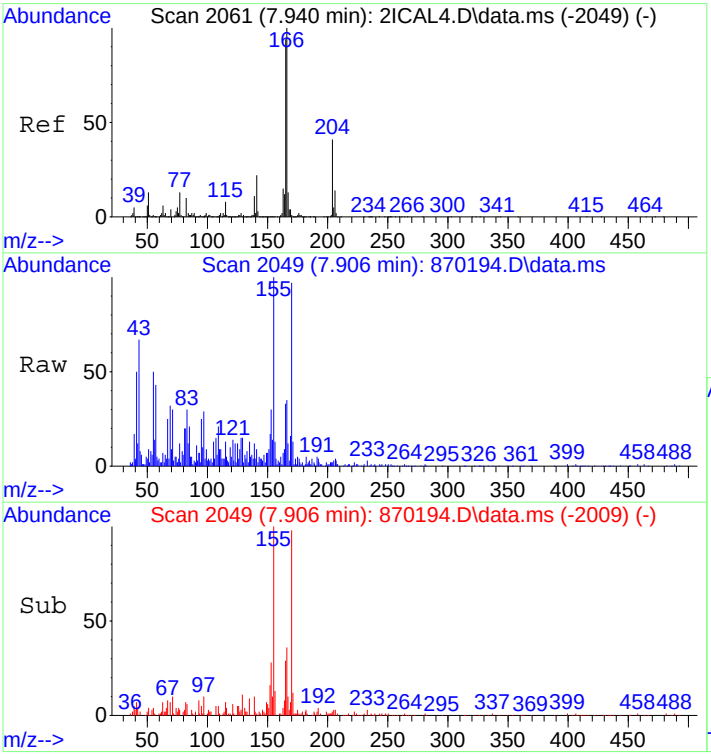


#55
4-Nitrophenol
Concen: 0.42 ug/mL
RT: 7.645 min Scan# 1957
Delta R.T. 0.006 min
Lab File: 870194.D
Acq: 8 Dec 10 9:59 pm

Tgt Ion:109 Resp: 3556

Ion	Ratio	Lower	Upper
109	100		
65	35.4	123.5	183.5#

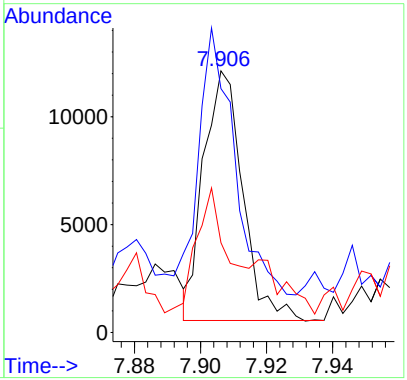


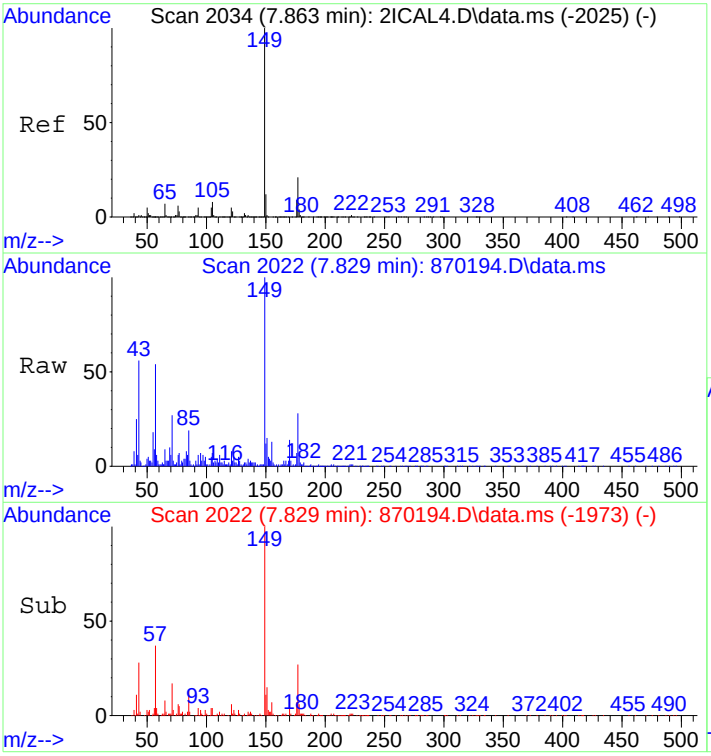


#58
Fluorene
Concen: 0.09 ug/mL
RT: 7.906 min Scan# 2049
Delta R.T. -0.003 min
Lab File: 870194.D
Acq: 8 Dec 10 9:59 pm

Tgt Ion:166 Resp: 9509

Ion	Ratio	Lower	Upper
166	100		
165	86.4	64.5	124.5
167	26.2	0.0	42.6

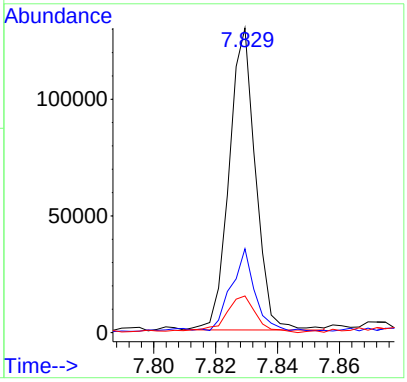


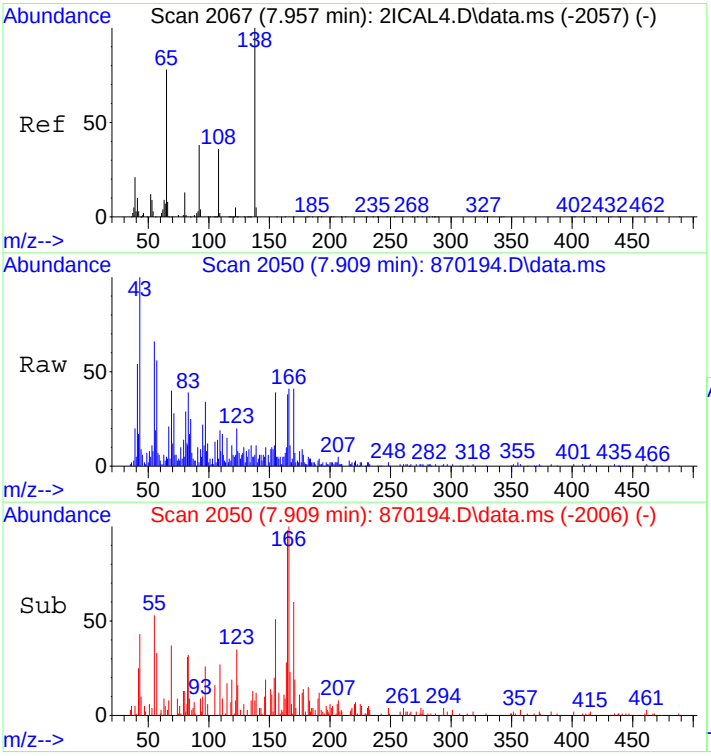


#60
Diethylphthal
Concen: 0.66 ug/mL
RT: 7.829 min Scan# 2022
Delta R.T. -0.006 min
Lab File: 870194.D
Acq: 8 Dec 10 9:59 pm

Tgt Ion:149 Resp: 76513

Ion	Ratio	Lower	Upper
149	100		
177	27.1	0.0	52.2
150	12.0	0.0	42.5

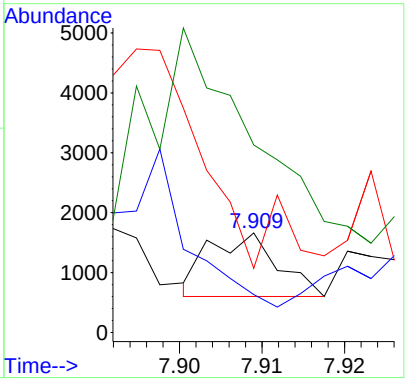


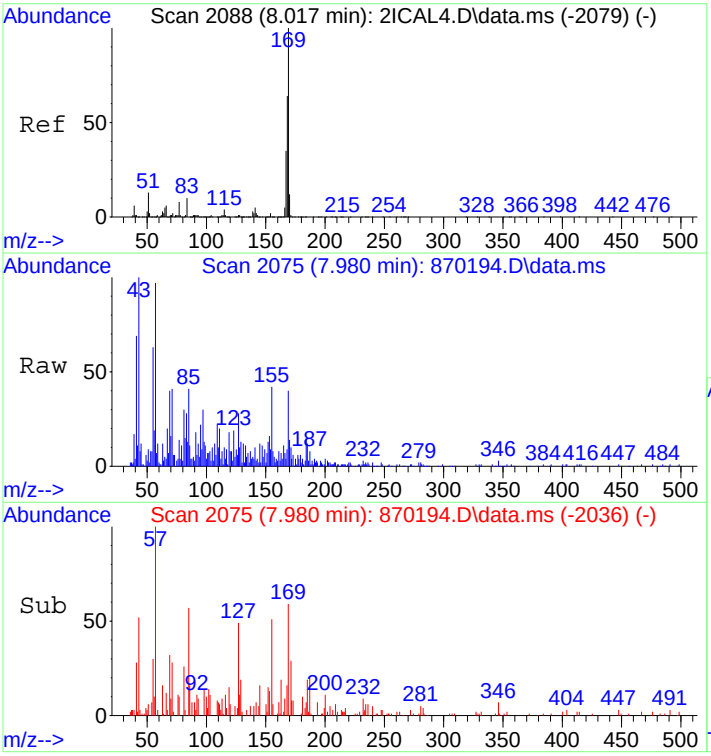


#61
4Nitroaniline
Concen: 0.02 ug/mL
RT: 7.909 min Scan# 2050
Delta R.T. -0.020 min
Lab File: 870194.D
Acq: 8 Dec 10 9:59 pm

Tgt Ion:138 Resp: 605

Ion	Ratio	Lower	Upper
138	100		
92	0.0	19.9	79.9#
108	0.0	39.4	99.4#
139	120.6	0.0	41.3#

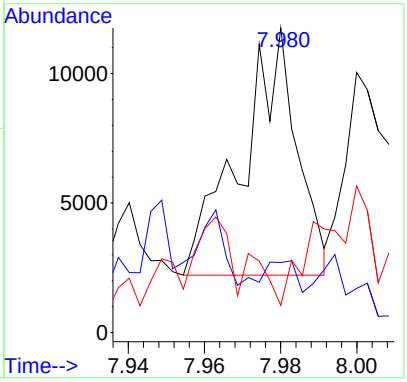


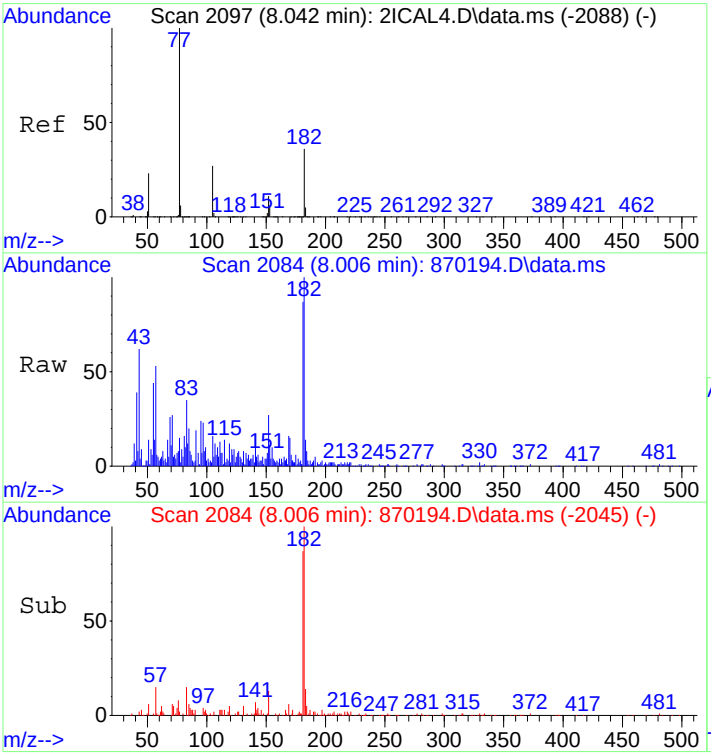


#65
Ntrsdiphlam&Diphlam
Concen: 0.13 ug/mL
RT: 7.980 min Scan# 2075
Delta R.T. -0.006 min
Lab File: 870194.D
Acq: 8 Dec 10 9:59 pm

Tgt Ion:169 Resp: 9693

Ion	Ratio	Lower	Upper
169	100		
168	3.0	34.8	94.8#
167	0.0	4.6	64.6#

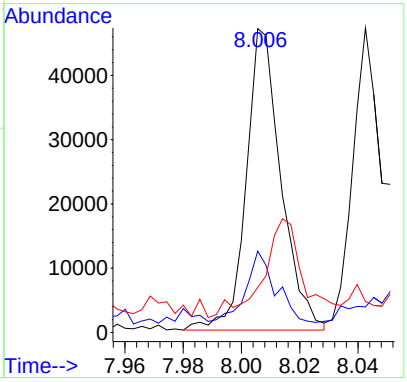


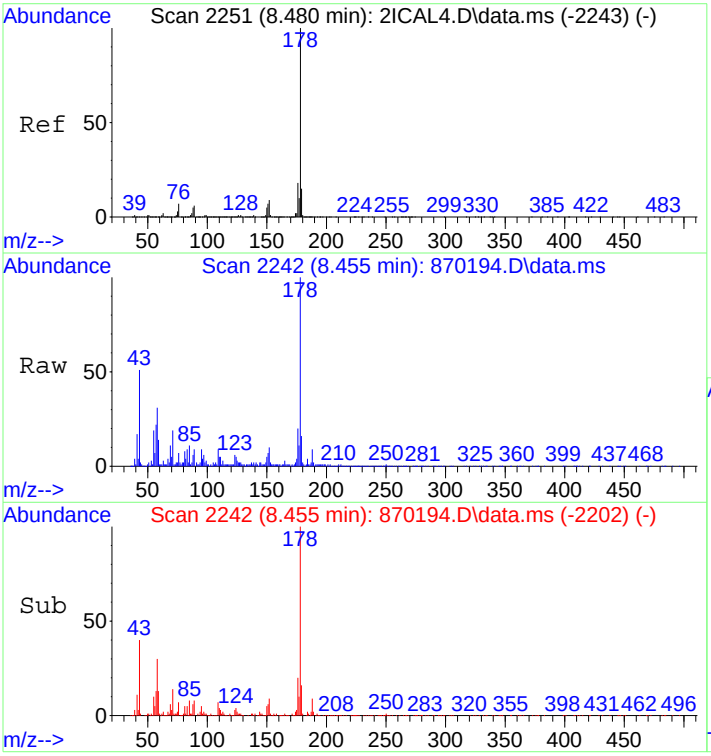


#66
Azobenz&12Diphlhyd
Concen: 1.36 ug/mL
RT: 8.006 min Scan# 2084
Delta R.T. -0.006 min
Lab File: 870194.D
Acq: 8 Dec 10 9:59 pm

Tgt Ion:182 Resp: 38932

Ion	Ratio	Lower	Upper
182	100		
152	23.2	3.5	63.5
77	5.9	348.6	408.6#

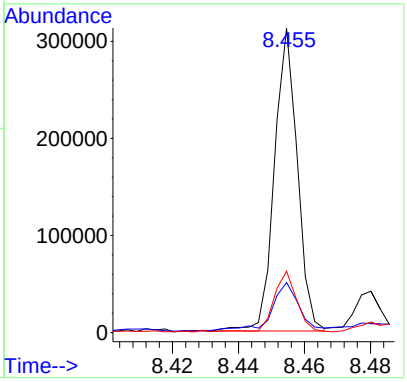


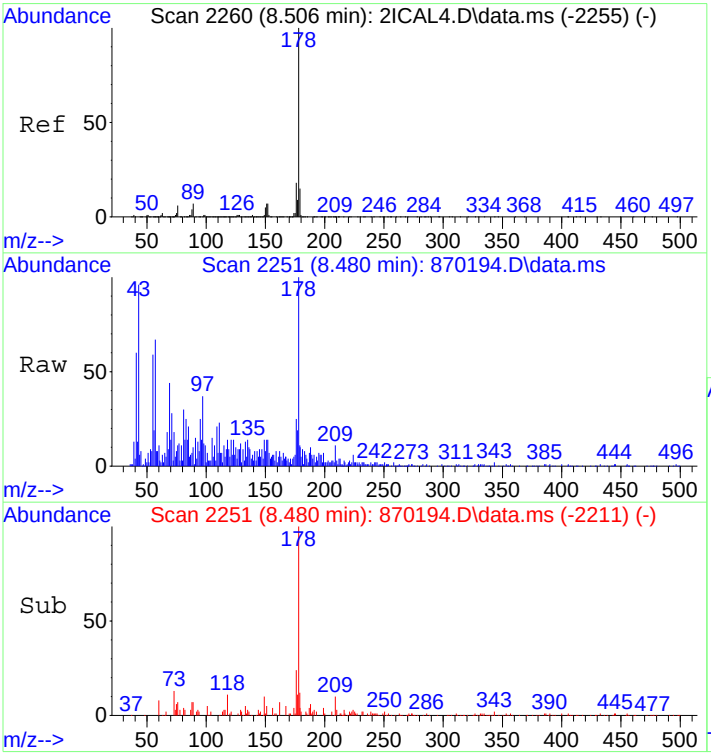


#70
Phenanthrene
Concen: 1.12 ug/mL
RT: 8.455 min Scan# 2242
Delta R.T. -0.003 min
Lab File: 870194.D
Acq: 8 Dec 10 9:59 pm

Tgt Ion:178 Resp: 150814

Ion	Ratio	Lower	Upper
178	100		
179	16.0	0.0	44.4
176	19.9	0.0	48.0

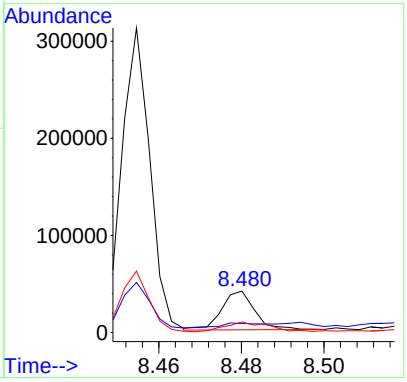


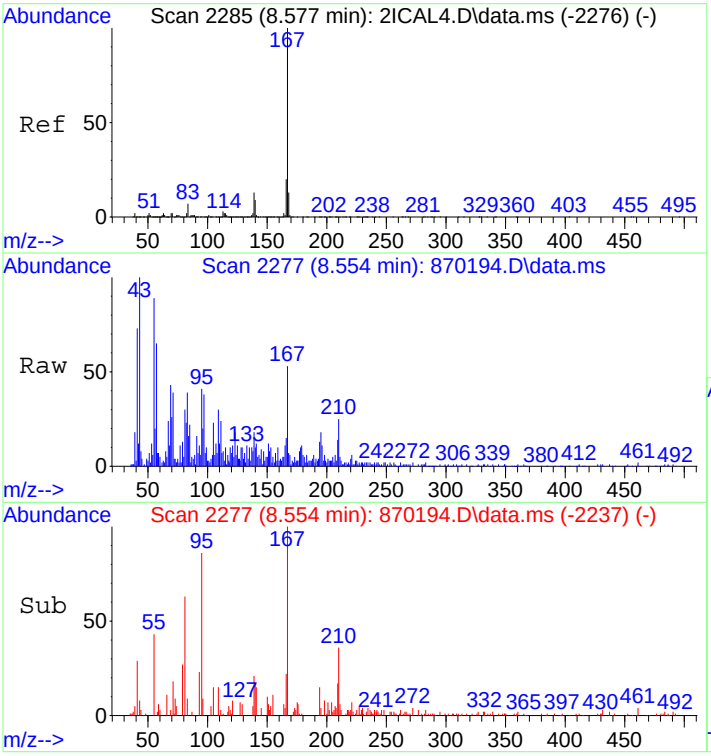


#71
Anthracene
Concen: 0.16 ug/mL
RT: 8.480 min Scan# 2251
Delta R.T. -0.003 min
Lab File: 870194.D
Acq: 8 Dec 10 9:59 pm

Tgt Ion:178 Resp: 22332

Ion	Ratio	Lower	Upper
178	100		
179	11.7	0.0	45.0
176	24.3	0.0	48.4

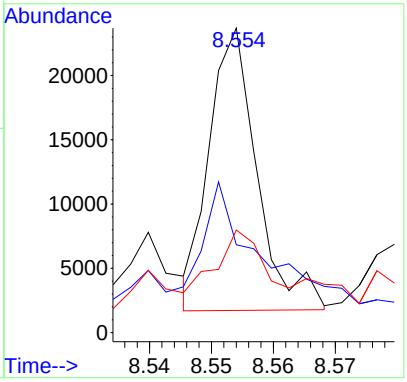


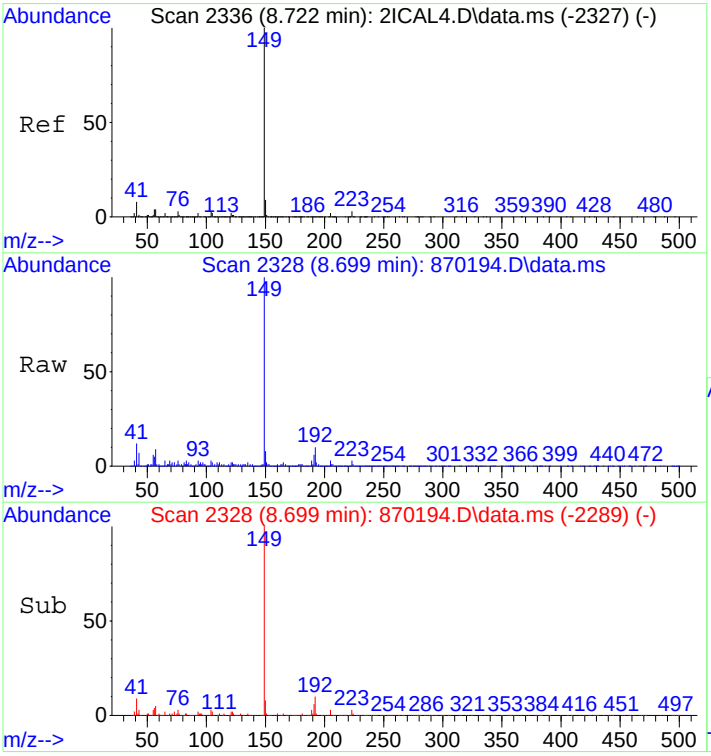


#72
Carbazole
Concen: 0.10 ug/mL
RT: 8.554 min Scan# 2277
Delta R.T. -0.003 min
Lab File: 870194.D
Acq: 8 Dec 10 9:59 pm

Tgt Ion:167 Resp: 11835

Ion	Ratio	Lower	Upper
167	100		
166	15.2	0.0	50.6
139	22.6	0.0	43.0

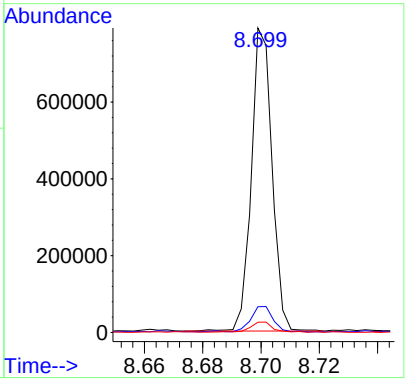


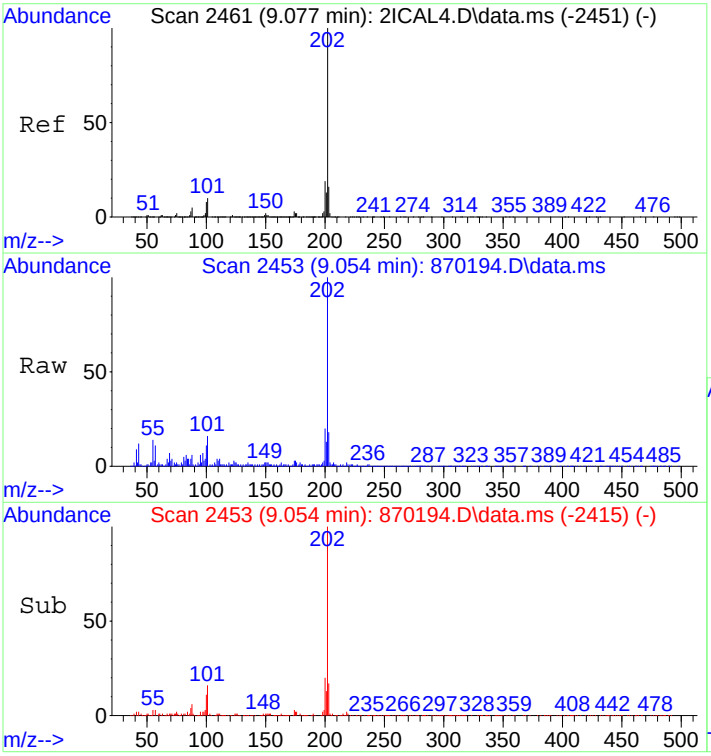


#73
Dinbtylphthal
Concen: 2.49 ug/mL
RT: 8.699 min Scan# 2328
Delta R.T. -0.006 min
Lab File: 870194.D
Acq: 8 Dec 10 9:59 pm

Tgt Ion:149 Resp: 390068

Ion	Ratio	Lower	Upper
149	100		
150	8.3	0.0	38.5
104	3.3	0.0	34.3

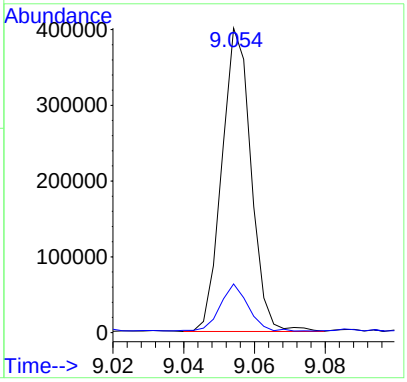


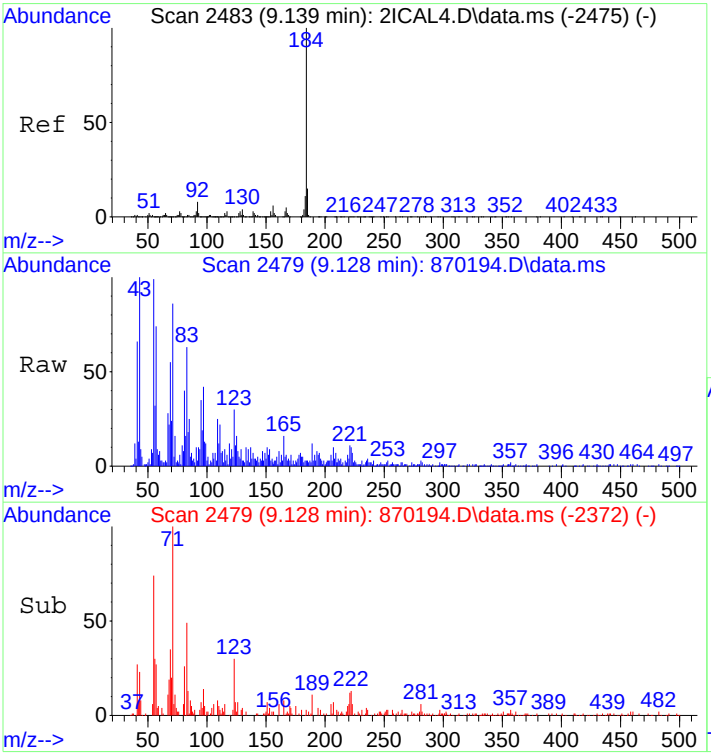


#74
Fluoranthene
Concen: 1.68 ug/mL
RT: 9.054 min Scan# 2453
Delta R.T. -0.008 min
Lab File: 870194.D
Acq: 8 Dec 10 9:59 pm

Tgt Ion:202 Resp: 229040

Ion	Ratio	Lower	Upper
202	100		
101	15.4	0.0	41.2

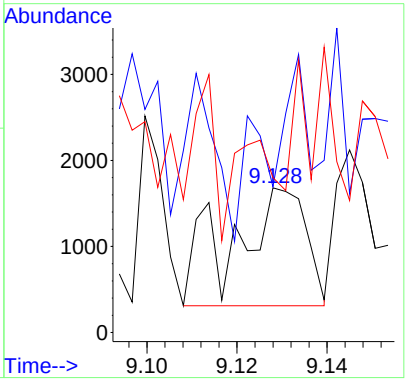


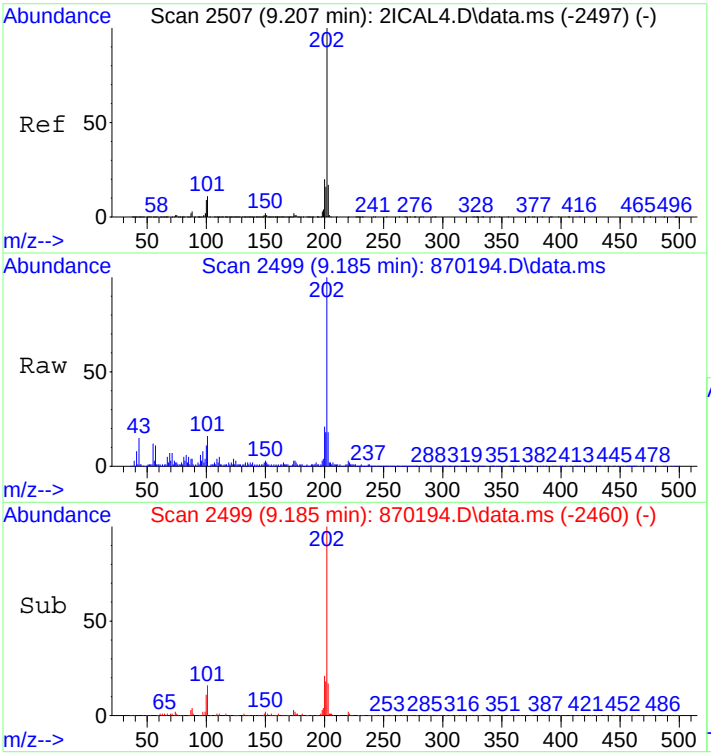


#76
Benzidine
Concen: Below ug/mL
RT: 9.128 min Scan# 2479
Delta R.T. 0.003 min
Lab File: 870194.D
Acq: 8 Dec 10 9:59 pm

Tgt Ion:184 Resp: 1567

Ion	Ratio	Lower	Upper
184	100		
185	0.0	0.0	43.8
183	18.7	0.0	41.8

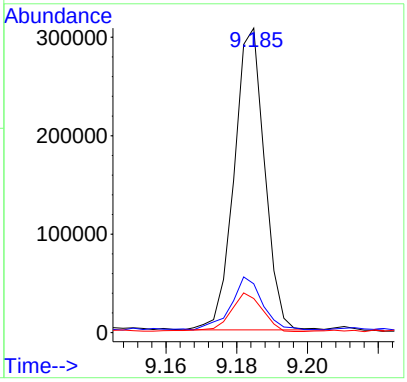


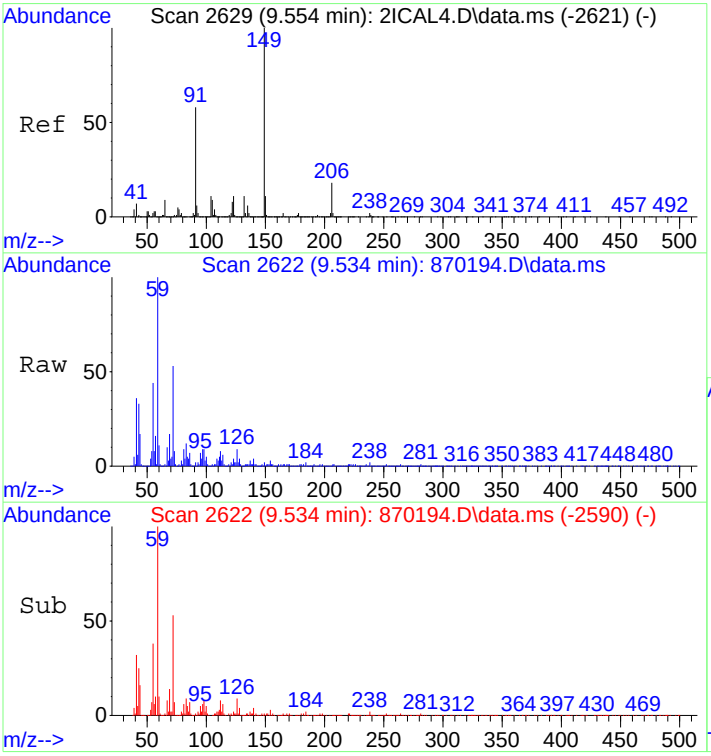


#77
Pyrene
Concen: 1.36 ug/mL
RT: 9.185 min Scan# 2499
Delta R.T. -0.006 min
Lab File: 870194.D
Acq: 8 Dec 10 9:59 pm

Tgt Ion:202 Resp: 182658

Ion	Ratio	Lower	Upper
202	100		
101	15.3	0.0	44.0
100	10.7	0.0	42.2

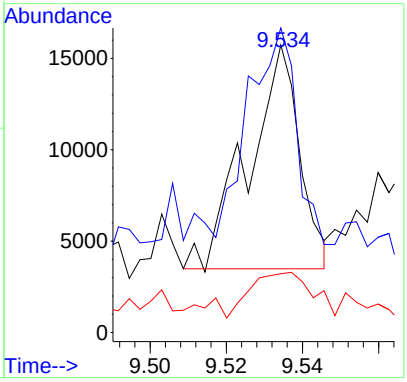


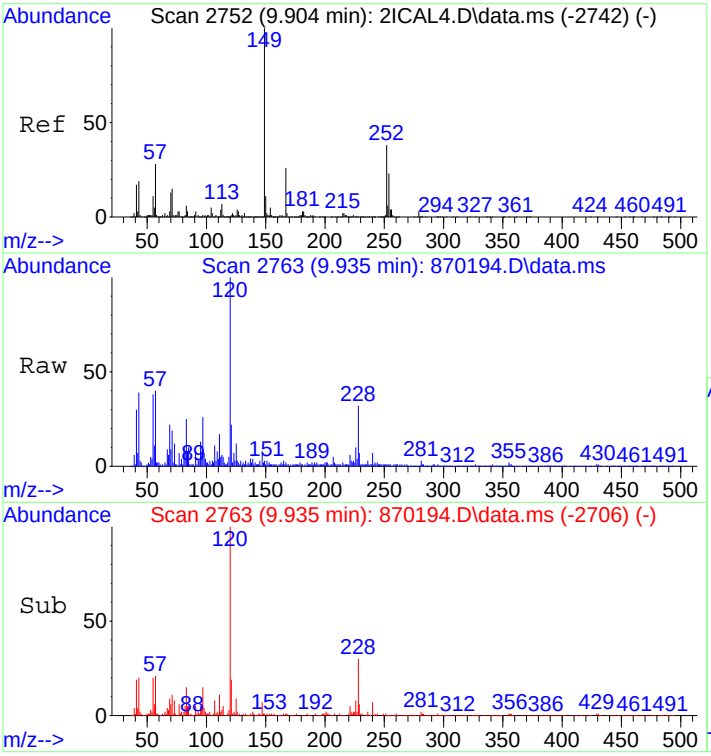


#79
Btylbzylphth
Concen: 0.18 ug/mL
RT: 9.534 min Scan# 2622
Delta R.T. -0.008 min
Lab File: 870194.D
Acq: 8 Dec 10 9:59 pm

Tgt Ion:149 Resp: 11508

Ion	Ratio	Lower	Upper
149	100		
91	96.7	40.5	100.5
206	16.3	0.0	48.9

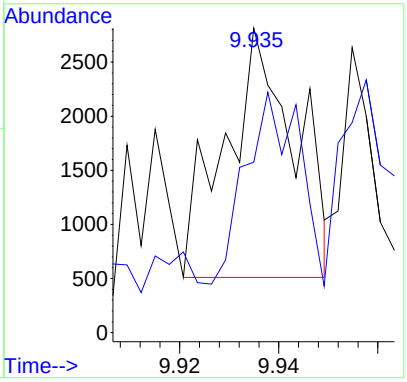


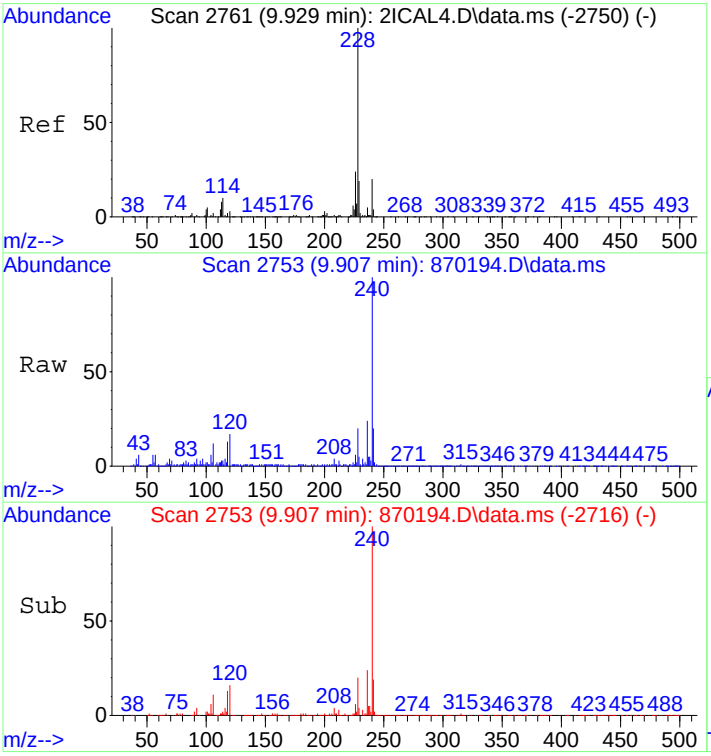


#80
33Diclbnzidin
Concen: Below ug/mL
RT: 9.935 min Scan# 2763
Delta R.T. 0.046 min
Lab File: 870194.D
Acq: 8 Dec 10 9:59 pm

Tgt Ion:252 Resp: 2270

Ion	Ratio	Lower	Upper
252	100		
254	49.7	31.7	91.7

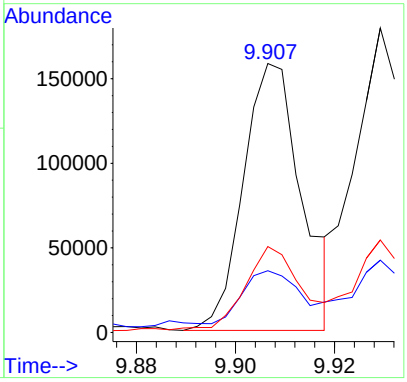


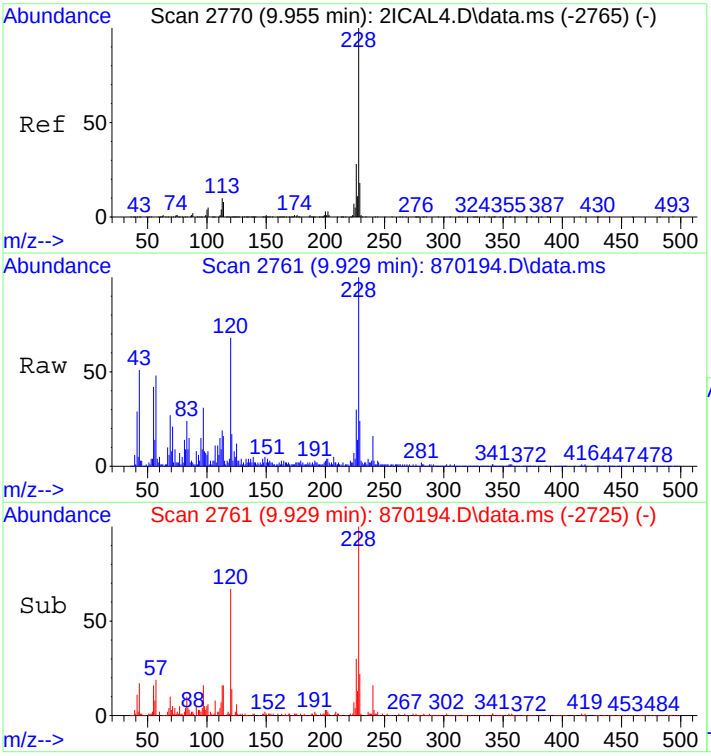


#81
B[a]anthracen
Concen: 1.03 ug/mL
RT: 9.907 min Scan# 2753
Delta R.T. -0.011 min
Lab File: 870194.D
Acq: 8 Dec 10 9:59 pm

Tgt Ion:228 Resp: 128966

Ion	Ratio	Lower	Upper
228	100		
229	19.5	0.0	48.8
226	30.5	0.0	56.6

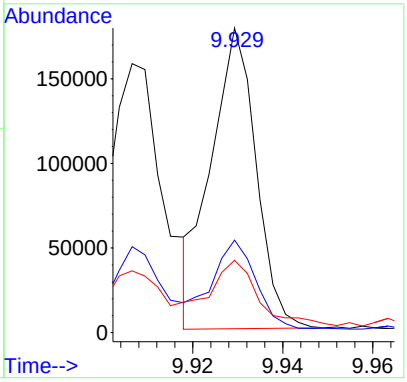


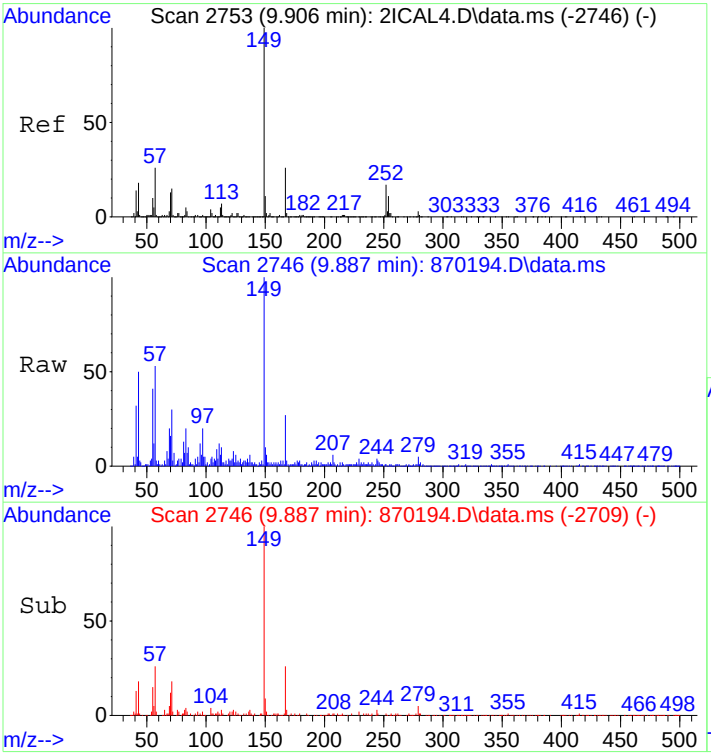


#82
Chrysene
Concen: 1.03 ug/mL
RT: 9.929 min Scan# 2761
Delta R.T. -0.014 min
Lab File: 870194.D
Acq: 8 Dec 10 9:59 pm

Tgt Ion:228 Resp: 123907

Ion	Ratio	Lower	Upper
228	100		
226	29.4	0.0	58.6
229	21.1	0.0	49.6

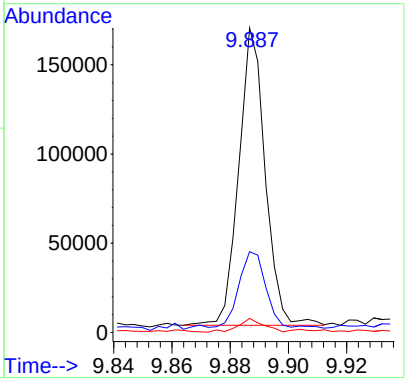


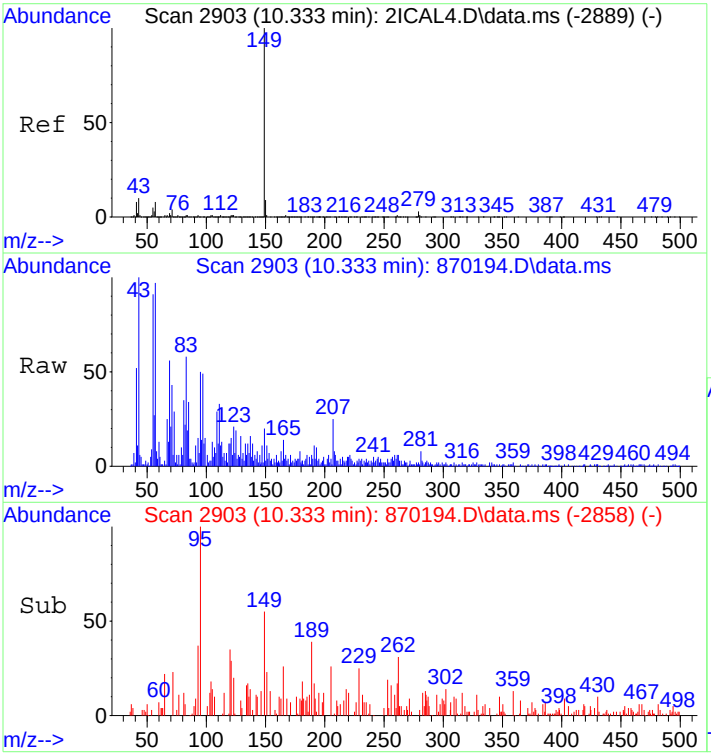


#83
bis2Ethlhxlph
Concen: 1.11 ug/mL
RT: 9.887 min Scan# 2746
Delta R.T. -0.011 min
Lab File: 870194.D
Acq: 8 Dec 10 9:59 pm

Tgt Ion:149 Resp: 104934

Ion	Ratio	Lower	Upper
149	100		
167	26.1	0.0	56.9
279	4.0	0.0	33.6

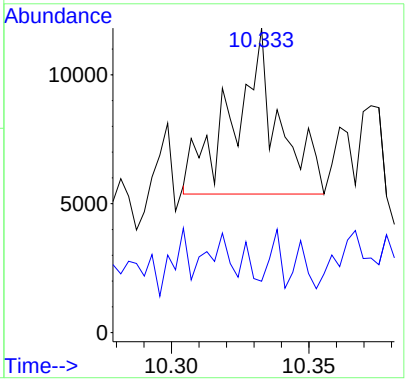


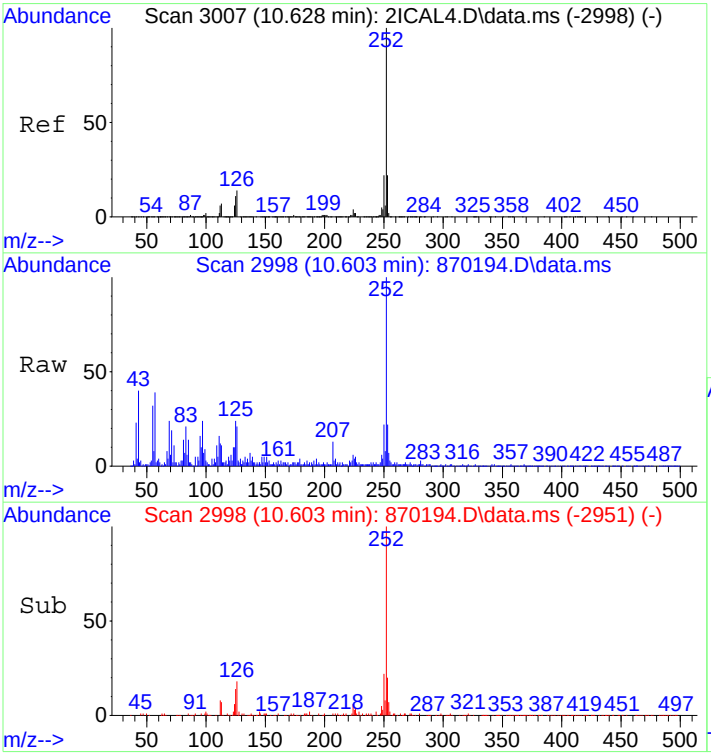


#84
Dinoctylphthl
Concen: 0.04 ug/mL
RT: 10.333 min Scan# 2903
Delta R.T. 0.011 min
Lab File: 870194.D
Acq: 8 Dec 10 9:59 pm

Tgt Ion:149 Resp: 7471

Ion	Ratio	Lower	Upper
149	100		
150	0.0	0.0	39.0

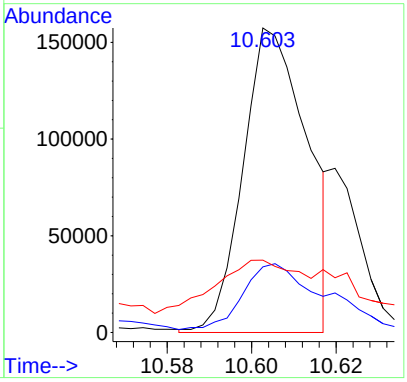


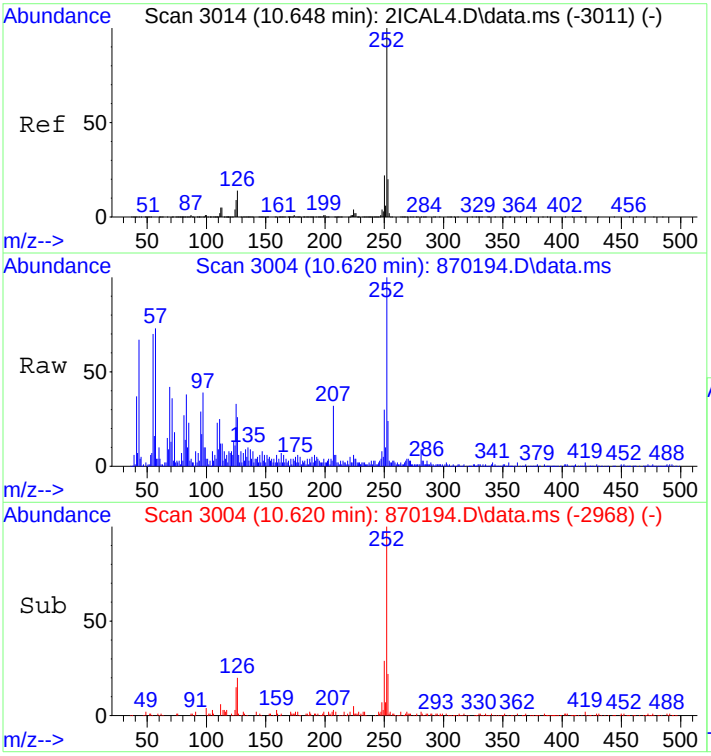


#86
B[b]fluoranth
Concen: 1.61 ug/mL m
RT: 10.603 min Scan# 2998
Delta R.T. -0.011 min
Lab File: 870194.D
Acq: 8 Dec 10 9:59 pm

Tgt Ion:252 Resp: 166308

Ion	Ratio	Lower	Upper
252	100		
253	21.5	0.0	50.8
125	23.8	0.0	41.9

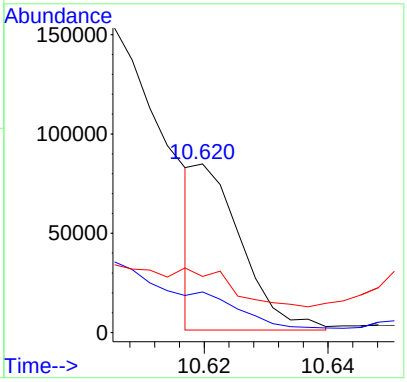


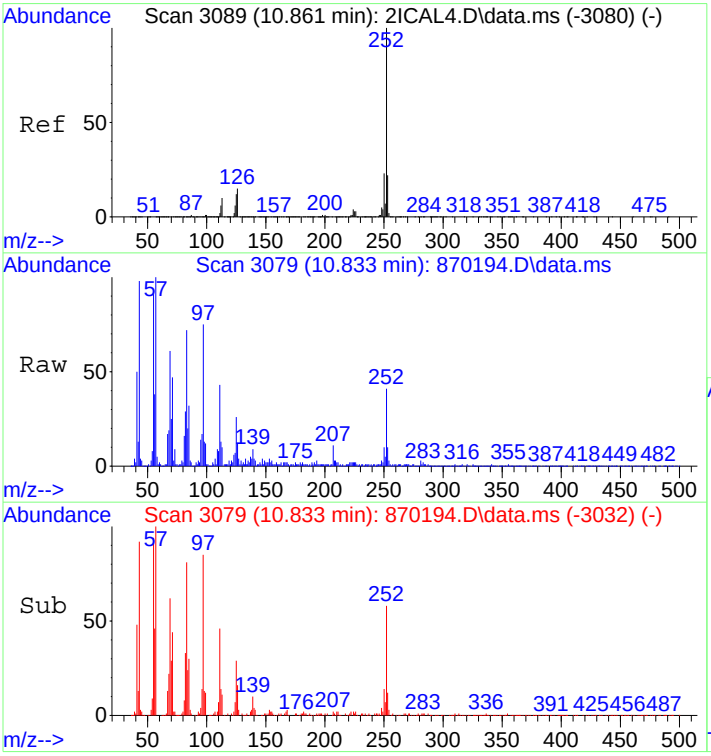


#87
B[k]fluoranth
Concen: 0.45 ug/mL m
RT: 10.620 min Scan# 3004
Delta R.T. -0.014 min
Lab File: 870194.D
Acq: 8 Dec 10 9:59 pm

Tgt Ion:252 Resp: 43694

Ion	Ratio	Lower	Upper
252	100		
253	24.1	0.0	50.8
125	33.3	0.0	41.3

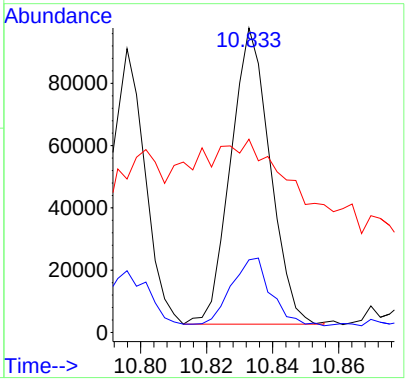


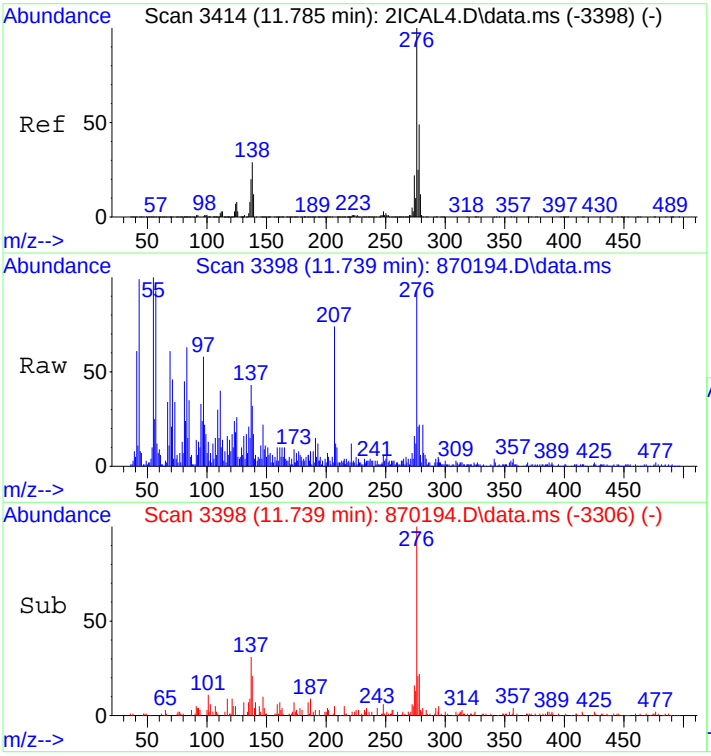


#88
Benz[a]pyrene
Concen: 0.84 ug/mL
RT: 10.833 min Scan# 3079
Delta R.T. -0.011 min
Lab File: 870194.D
Acq: 8 Dec 10 9:59 pm

Tgt Ion:252 Resp: 78807

Ion	Ratio	Lower	Upper
252	100		
253	22.3	0.0	50.4
125	22.1	0.0	43.2

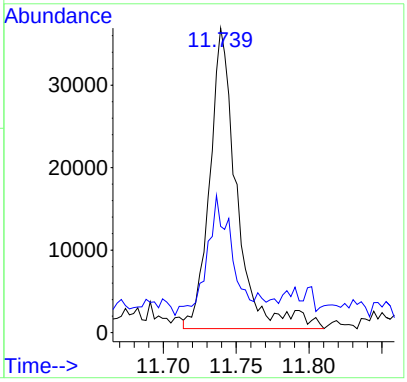


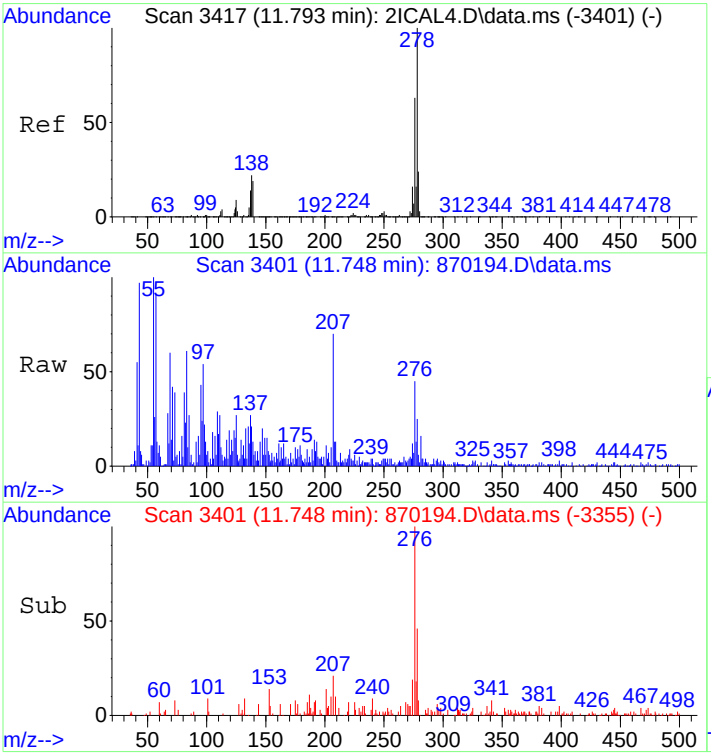


#89
Indeno-pyrene
Concen: 0.49 ug/mL
RT: 11.739 min Scan# 3398
Delta R.T. -0.017 min
Lab File: 870194.D
Acq: 8 Dec 10 9:59 pm

Tgt Ion:276 Resp: 47049

Ion	Ratio	Lower	Upper
276	100		
138	26.6	2.2	62.2

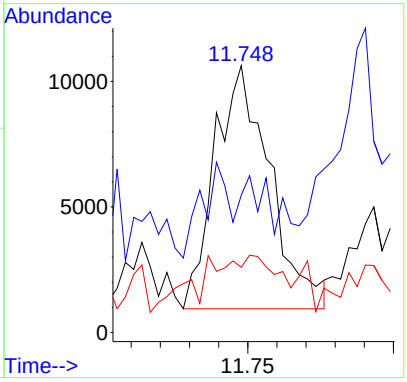


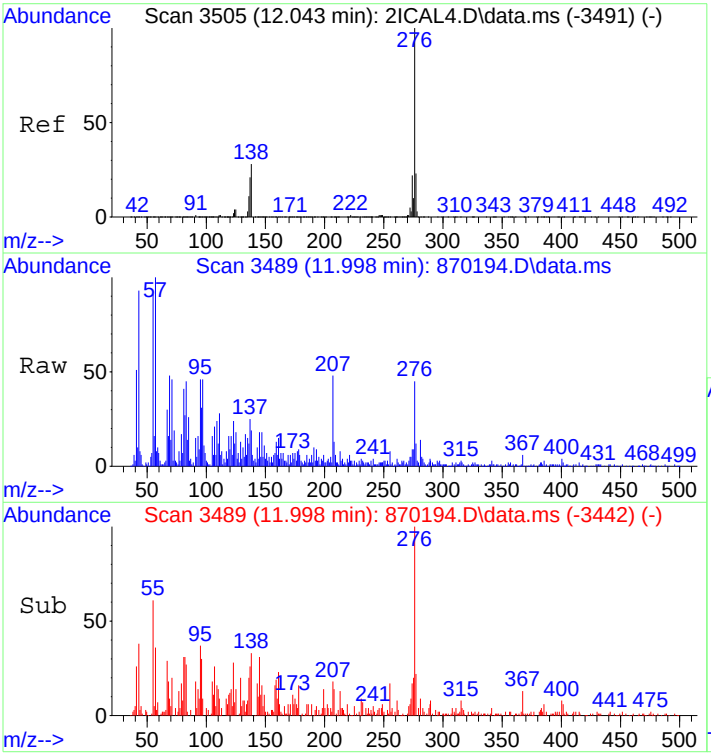


#90
Dib[ah]anthr
Concen: 0.16 ug/mL
RT: 11.748 min Scan# 3401
Delta R.T. -0.020 min
Lab File: 870194.D
Acq: 8 Dec 10 9:59 pm

Tgt Ion:278 Resp: 12792

Ion	Ratio	Lower	Upper
278	100		
139	2.8	0.0	50.7
279	8.5	0.0	54.3

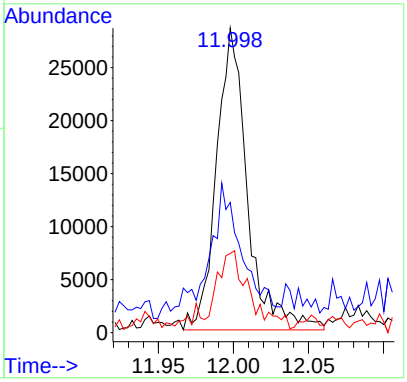


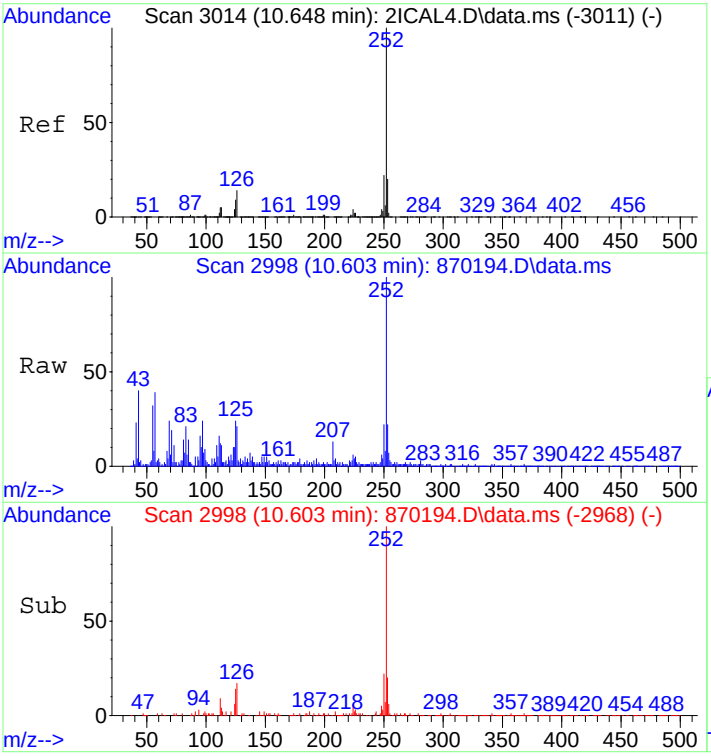


#91
B[ghi]perylen
Concen: 0.51 ug/mL
RT: 11.998 min Scan# 3489
Delta R.T. -0.017 min
Lab File: 870194.D
Acq: 8 Dec 10 9:59 pm

Tgt Ion:276 Resp: 40840

Ion	Ratio	Lower	Upper
276	100		
138	34.8	0.0	57.5
277	23.6	0.0	53.1

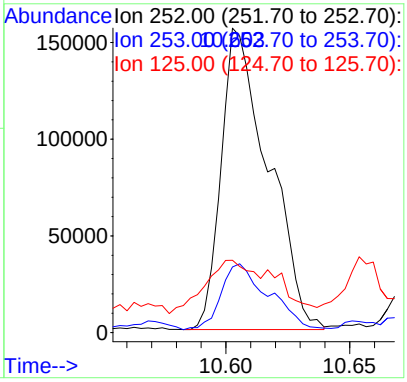




#87
B[k]fluoranth
Concen: 2.12 ug/mL
RT: 10.603 min Scan# 2998
Delta R.T. -0.031 min
Lab File: 870194.D
Acq: 8 Dec 2010 21:59

Tgt Ion:252 Resp: 206499

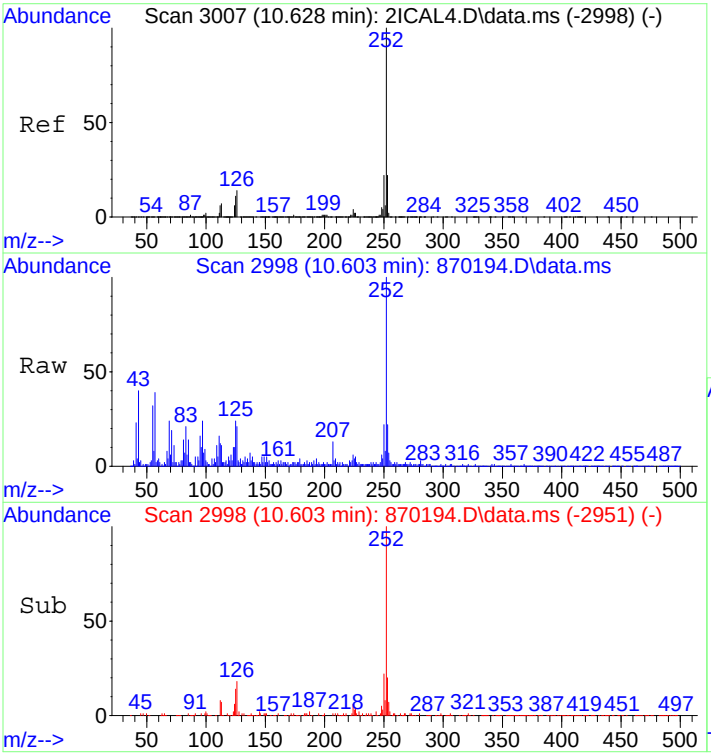
Ion	Ratio	Lower	Upper
252	100		
253	20.8	0.0	50.8
125	15.0	0.0	41.3



RPN
12/14/10

JJY
01/05/11

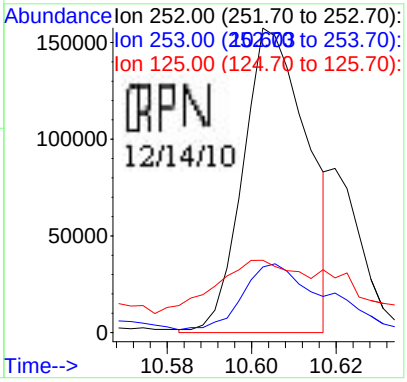
Before Manual Integration



#86
B[b]fluoranth
Concen: 1.61 ug/mL m
RT: 10.603 min Scan# 2998
Delta R.T. -0.011 min
Lab File: 870194.D
Acq: 8 Dec 2010 21:59

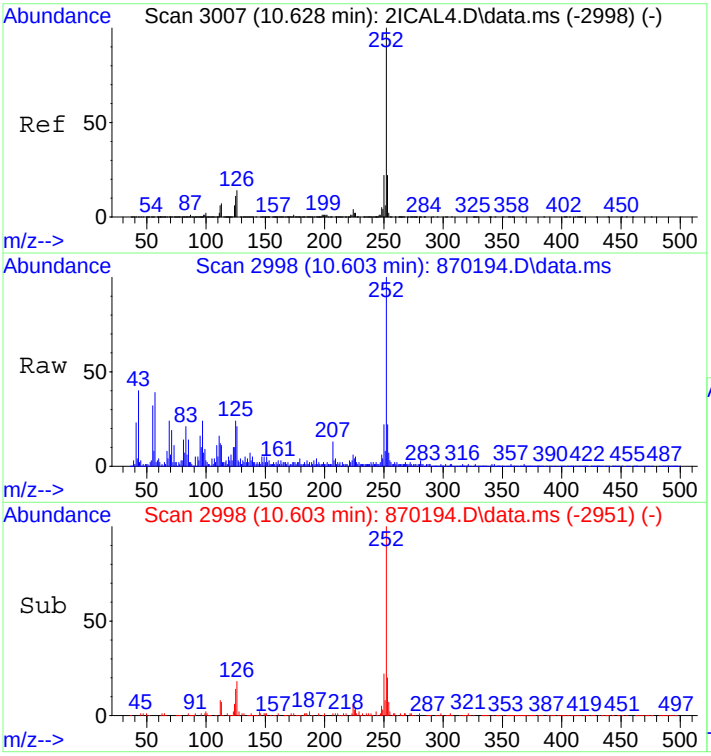
Tgt Ion:252 Resp: 166308

Ion	Ratio	Lower	Upper
252	100		
253	21.5	0.0	50.8
125	23.8	0.0	41.9



JJY
01/05/11

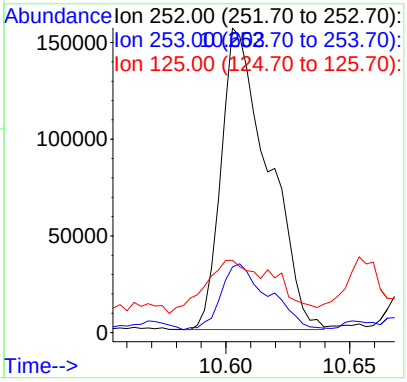
After Manual Integration



#86
B[b]fluoranth
Concen: 2.00 ug/mL
RT: 10.603 min Scan# 2998
Delta R.T. -0.011 min
Lab File: 870194.D
Acq: 8 Dec 2010 21:59

Tgt Ion:252 Resp: 206499

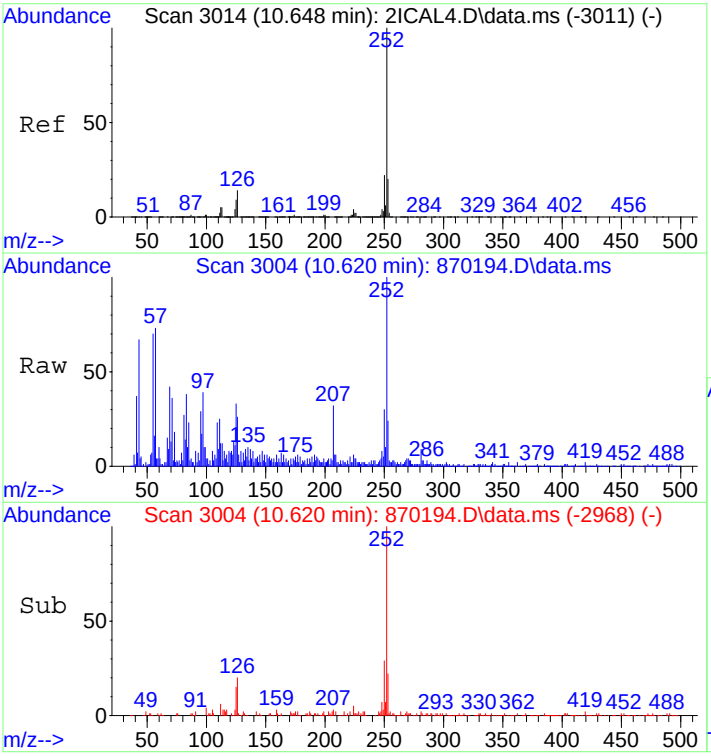
Ion	Ratio	Lower	Upper
252	100		
253	20.8	0.0	50.8
125	15.0	0.0	41.9



RPN
12/14/10

JJY
01/05/11

Before Manual Integration

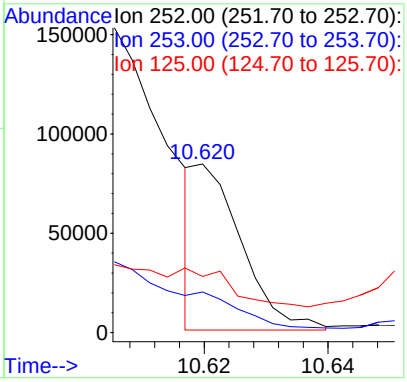


#87
B[k]fluoranth
Concen: 0.45 ug/mL m
RT: 10.620 min Scan# 3004
Delta R.T. -0.014 min
Lab File: 870194.D
Acq: 8 Dec 2010 21:59

Tgt Ion:252 Resp: 43694

Ion	Ratio	Lower	Upper
252	100		
253	24.1	0.0	50.8
125	33.3	0.0	41.3

RPN
12/14/10



JJY
01/05/11

After Manual Integration

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120810\870195.D Vial: 25
Acq On : 8 Dec 2010 22:19 Operator: RPN
Sample : 72359,870195,1 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 15 16:02:39 2010

RPN 10/15/10

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 09 13:42:46 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Manual Integration: Benzo(k)fluoranthene. Reason#3

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.389	152	730777	20.00	ug/mL	0.00
21) Naphthalened8	6.039	136	3278254	20.00	ug/mL	0.00
39) Acenaphthened10	7.551	164	1755548	20.00	ug/mL	0.00
63) Phenanthrd10	8.449	188	2635762	20.00	ug/mL	0.00
75) Chrysene-d12	9.912	240	2318938	20.00	ug/mL	-0.01
85) Perylene-d12	10.873	264	1790940	20.00	ug/mL	-0.01
System Monitoring Compounds						
4) SURR2Flphenol	3.164	112	1247866	68.59	%REC	0.04
Spiked Amount 100.000	Range 20 - 110		Recovery = 68.59%			
7) SURRPhenol-d5	3.965	99	1549003	70.88	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 70.88%			
22) SURRNitrbenzened5	5.082	82	552244	69.81	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 69.81%			
44) SURR2Flbiphenyl	7.062	172	1654625	72.04	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 72.04%			
62) SURR246Tribrphenl	8.068	330	431862	81.36	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 81.36%			
78) SURRTerphenyl-d14	9.256	244	1272657	75.56	ug/mL	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 75.56%			
Target Compounds						Qvalue
2) Ntrsdimeth	2.289	74	11658	0.4493	ug/mL#	1
6) bis2Clethletr	4.062	93	44100	1.0086	ug/mL#	43
8) Phenol	3.979	94	28248	0.5244	ug/mL	92
12) 12Diclbenz	4.585	146	6938	0.1270	ug/mL	72
13) Benzyl alcoho	4.519	108	3542	1.0423	ug/mL#	1
14) bis2clispreth	4.738	45	3654	0.0439	ug/mL	63
15) 2Methylphenol	4.610	108	851	0.0207	ug/mL	97
16) Ntrspyrrol	4.883	100	631	0.0290	ug/mL#	1
17) Acetophenone	4.883	105	32100	0.5223	ug/mL#	56
19) N-Ntrsdinprop	4.897	70	1578	0.0574	ug/mL#	31
20) 3&4Methylphenol	4.894	108	3729	0.0908	ug/mL#	58
24) Isophorone	5.460	82	8158	0.0915	ug/mL	76
25) 2-Nitrophenol	5.571	139	6559	0.2171	ug/mL#	63
26) 24Dimthpheno	5.849	107	10021	0.2188	ug/mL#	22
27) bis2clethoxym	5.775	93	2888	0.0470	ug/mL#	45
30) Benzoic acid	5.727	105	46427	4.2204	ug/mL	93
31) Naphthalene	6.062	128	179505	1.0729	ug/mL	99
32) 4-Cl-aniline	6.059	127	22786	0.3631	ug/mL#	39
36) 4Cl3methylphe	6.622	107	3154	0.0771	ug/mL#	28
37) 2Methylnaphth	6.753	141	144868	1.5512	ug/mL	95
38) 1Methylnaphth	6.835	141	118303	1.2205	ug/mL	99
45) 2Clnaphthalen	7.159	162	2792	0.0275	ug/mL#	57
46) 2Nitroaniline	7.179	65	16903	0.7138	ug/mL#	28
47) Acnaphthylene	7.452	152	28210	0.1624	ug/mL	87
48) Dimethylphtha	7.372	163	6678	0.0560	ug/mL	47
49) 26Dinitrotolu	7.344	165	2007	0.0779	ug/mL	88
50) Acenaphthene	7.574	153	7076	0.0648	ug/mL	79
51) 3Nitroaniline	7.514	138	7201	0.2610	ug/mL#	1
52) 24Dinitphenol	7.702	184	448	2.4019	ug/mL#	1
53) Dibenzofuran	7.690	168	56138	0.3950	ug/mL	85
54) 24Dinitrotolu	7.628	165	1752	0.0549	ug/mL	79
55) 4-Nitrophenol	7.574	109	38624	4.3685	ug/mL#	20
58) Fluorene	7.912	166	12424	0.1084	ug/mL	81
60) Diethylphthal	7.835	149	105276	0.8752	ug/mL	97

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120810\870195.D Vial: 25
Acq On : 8 Dec 2010 22:19 Operator: RPN
Sample : 72359,870195,1 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 15 16:02:39 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 09 13:42:46 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

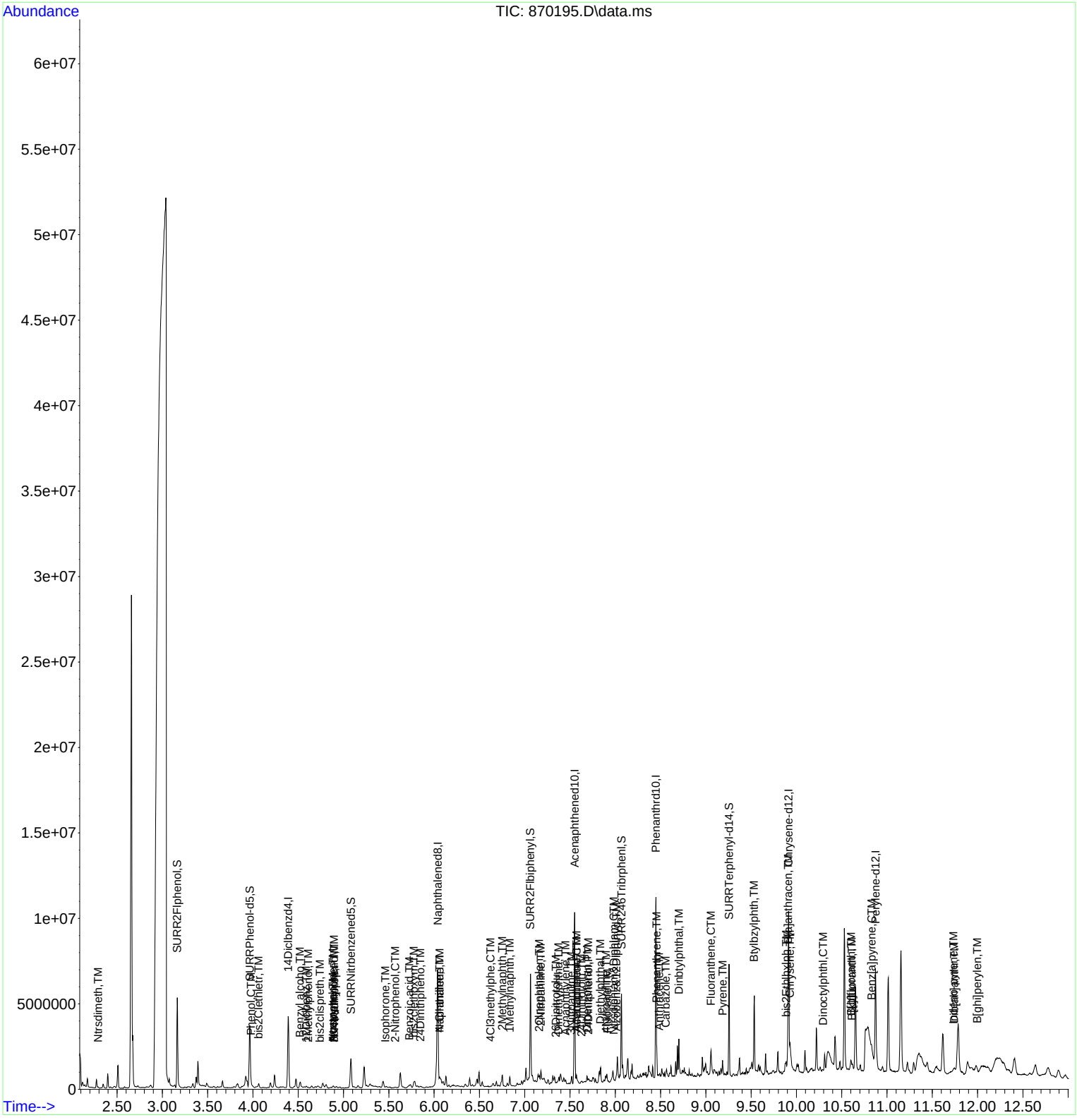
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
61) 4Nitroaniline	7.898	138	4497	0.1661 ug/mL#	71
65) Ntrsdiphlam&Diphlam	7.983	169	8361	0.1068 ug/mL#	33
66) Azobenz&12Diphlhyd	8.011	182	49667	1.6793 ug/mL#	1
70) Phenanthrene	8.457	178	190079	1.3600 ug/mL	98
71) Anthracene	8.483	178	28932	0.2042 ug/mL	99
72) Carbazole	8.557	167	15924	0.1327 ug/mL	92
73) Dinbtylphthal	8.702	149	511114	3.1536 ug/mL	96
74) Fluoranthene	9.057	202	276286	1.9590 ug/mL	96
76) Benzidine	9.105	184	1950	Below Cal	81
77) Pyrene	9.185	202	222289	1.6075 ug/mL	98
79) Btylbzylphth	9.532	149	13565	0.2017 ug/mL	90
80) 33Diclbnzidin	9.932	252	2557	Below Cal #	22
81) B[a]anthracen	9.907	228	139598	1.0824 ug/mL	96
82) Chrysene	9.929	228	146152	1.1828 ug/mL	94
83) bis2Ethlhxlph	9.887	149	128018	1.3100 ug/mL	97
84) Dinoctylphthl	10.293	149	5195	0.0299 ug/mL	94
86) B[b]fluoranth	10.603	252	175443	1.6631 ug/mL	94
87) B[k]fluoranth	10.611	252	71606m	0.7186 ug/mL	
88) Benz[a]pyrene	10.830	252	82289	0.8546 ug/mL	88
89) Indeno-pyrene	11.734	276	47902	0.4900 ug/mL	99
90) Dib[ah]anthr	11.742	278	13141	0.1657 ug/mL	90
91) B[ghi]perylen	11.995	276	44906	0.5530 ug/mL	94

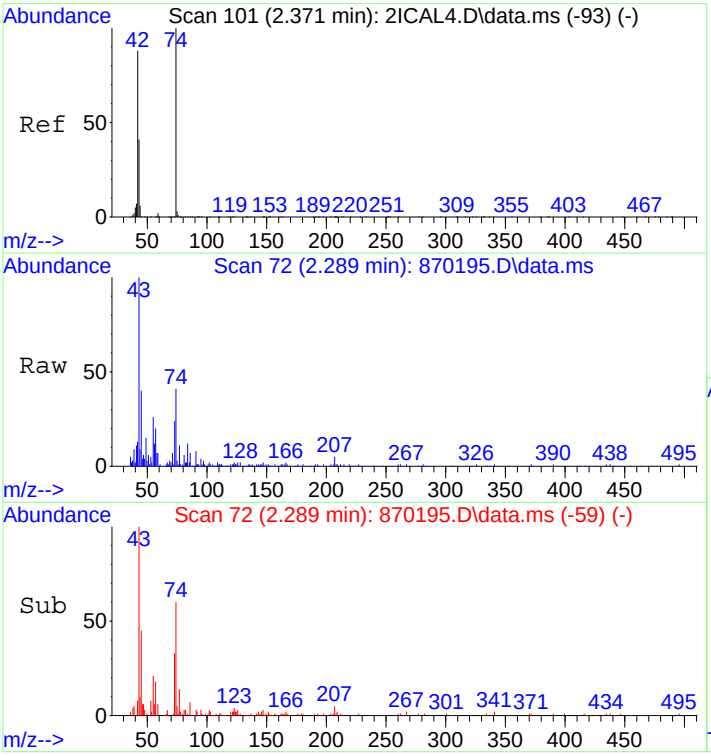
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120810\870195.D Vial: 25
Acq On : 8 Dec 2010 22:19 Operator: RPN
Sample : 72359,870195,1 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 15 16:02:39 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 09 13:42:46 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

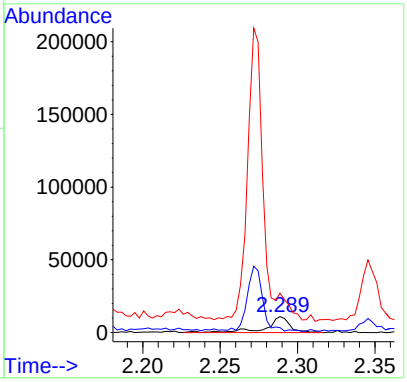


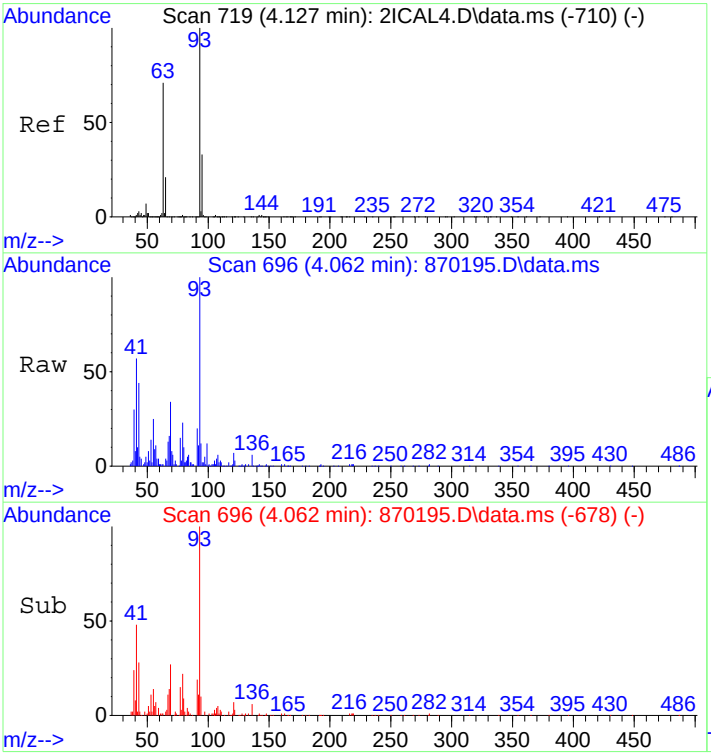


#2
Ntrsdimeth
Concen: 0.45 ug/mL
RT: 2.289 min Scan# 72
Delta R.T. -0.082 min
Lab File: 870195.D
Acq: 8 Dec 10 10:19 pm

Tgt Ion: 74 Resp: 11658

Ion	Ratio	Lower	Upper
74	100		
42	14.7	82.4	142.4#
43	164.6	17.7	77.7#

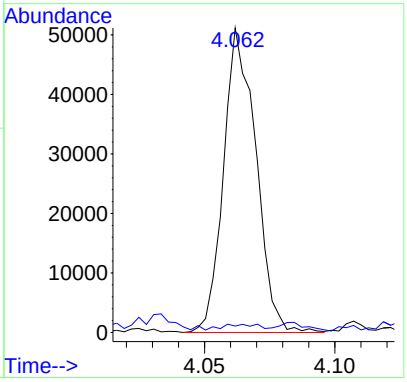


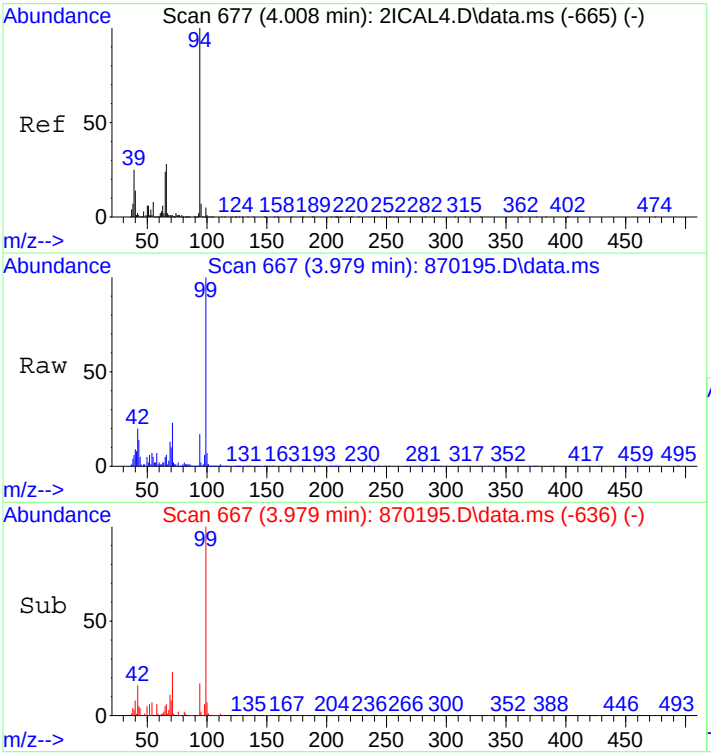


#6
bis2Clethletr
Concen: 1.01 ug/mL
RT: 4.062 min Scan# 696
Delta R.T. -0.065 min
Lab File: 870195.D
Acq: 8 Dec 10 10:19 pm

Tgt Ion: 93 Resp: 44100

Ion	Ratio	Lower	Upper
93	100		
95	0.3	2.4	62.4#

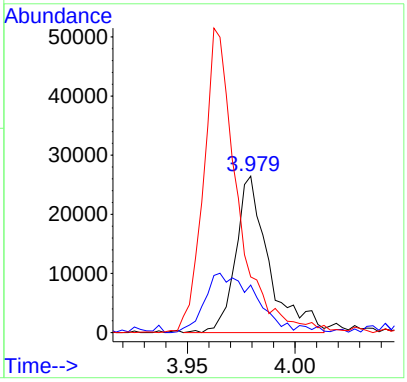


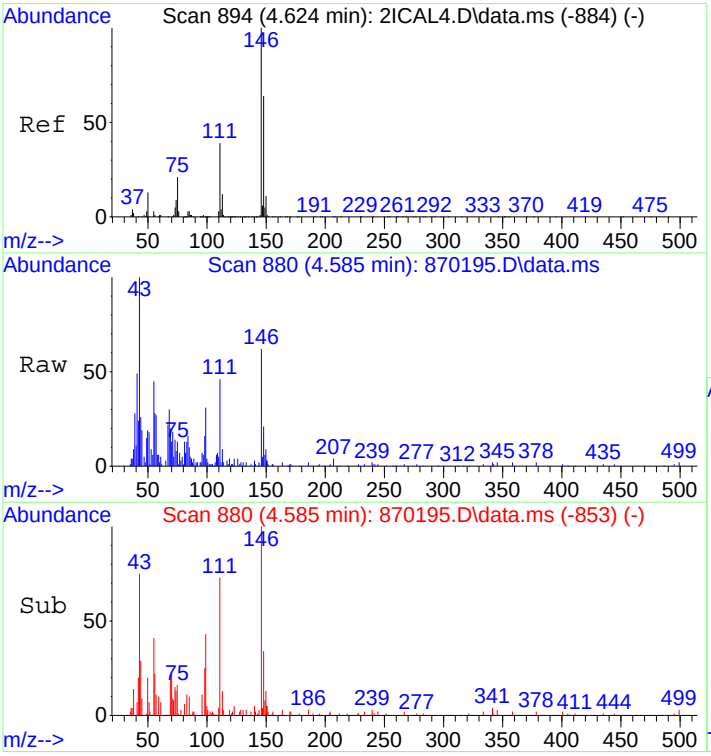


#8
Phenol
Concen: 0.52 ug/mL
RT: 3.979 min Scan# 667
Delta R.T. -0.028 min
Lab File: 870195.D
Acq: 8 Dec 10 10:19 pm

Tgt Ion: 94 Resp: 28248

Ion	Ratio	Lower	Upper
94	100		
65	29.4	1.0	61.0
66	31.1	8.1	68.1

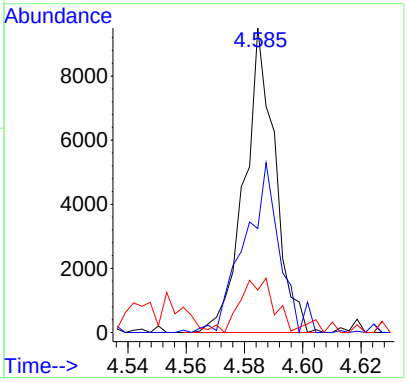


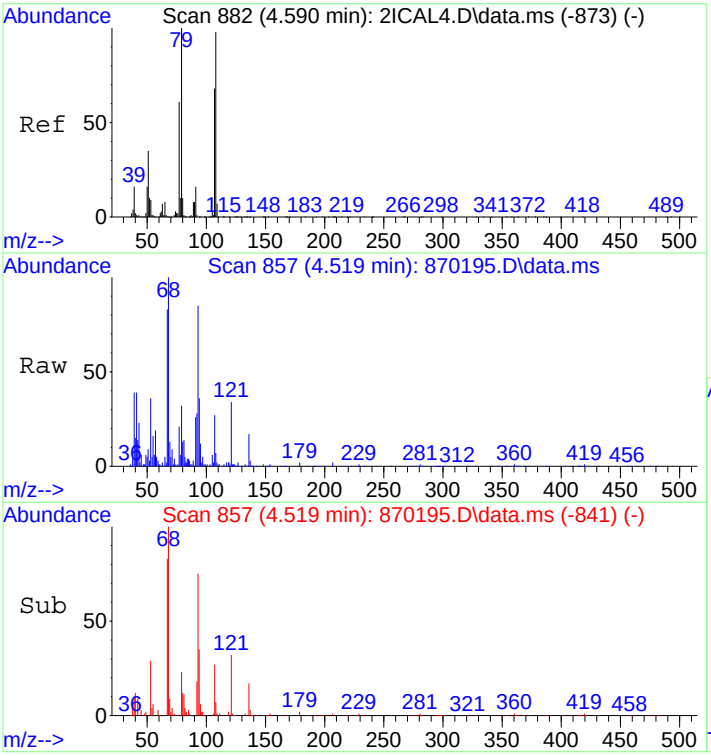


#12
12Diclbenz
Concen: 0.13 ug/mL
RT: 4.585 min Scan# 880
Delta R.T. -0.040 min
Lab File: 870195.D
Acq: 8 Dec 10 10:19 pm

Tgt Ion:146 Resp: 6938

Ion	Ratio	Lower	Upper
146	100		
148	34.1	29.2	89.2
113	13.9	0.0	42.9

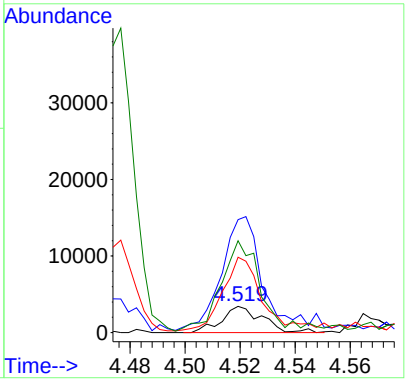


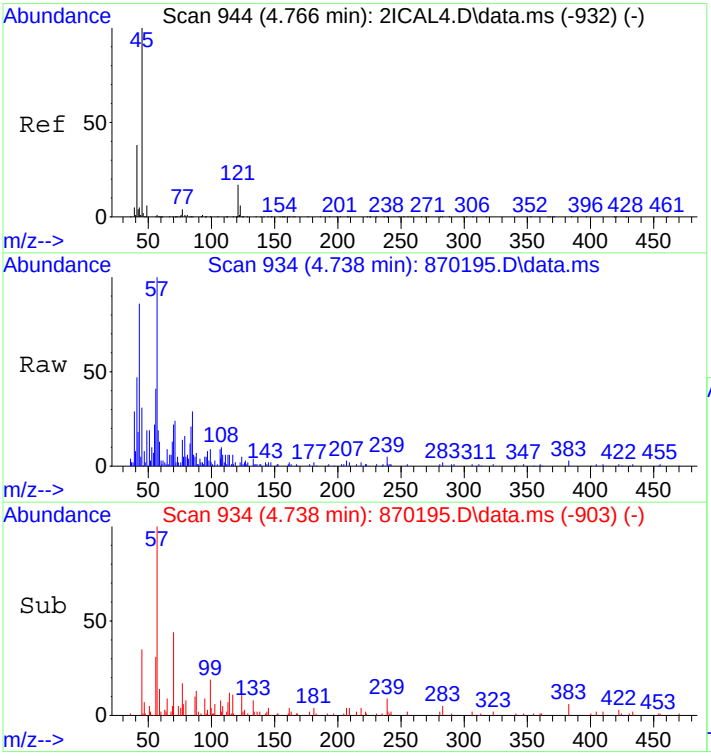


#13
Benzyl alcoho
Concen: 1.04 ug/mL
RT: 4.519 min Scan# 857
Delta R.T. -0.071 min
Lab File: 870195.D
Acq: 8 Dec 10 10:19 pm

Tgt Ion:108 Resp: 3542

Ion	Ratio	Lower	Upper
108	100		
79	409.1	104.2	164.2#
77	276.7	55.1	115.1#
91	330.2	0.0	50.3#

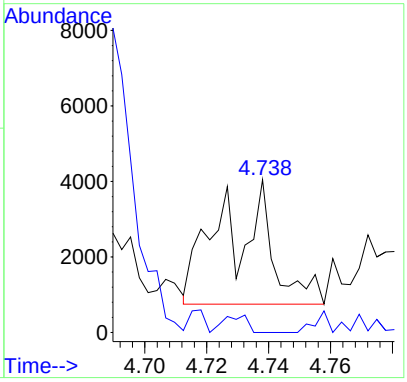


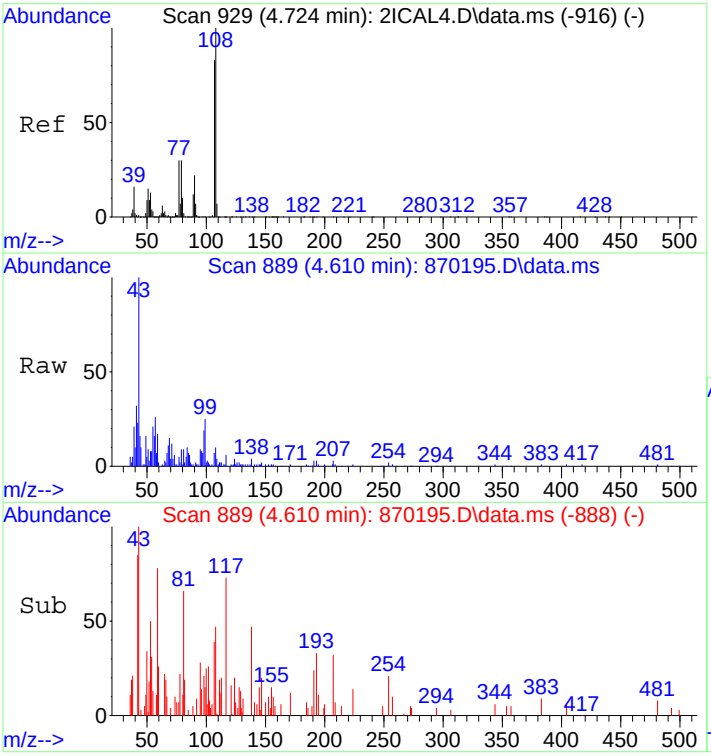


#14
bis2clispreth
Concen: 0.04 ug/mL
RT: 4.738 min Scan# 934
Delta R.T. -0.028 min
Lab File: 870195.D
Acq: 8 Dec 10 10:19 pm

Tgt Ion: 45 Resp: 3654

Ion	Ratio	Lower	Upper
45	100		
121	0.0	0.0	45.3

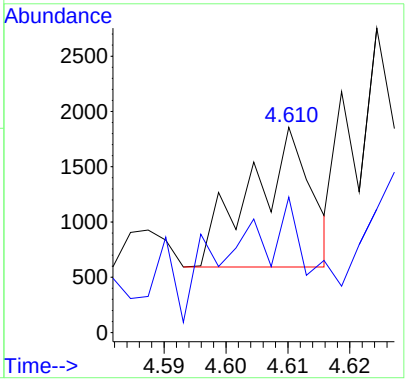


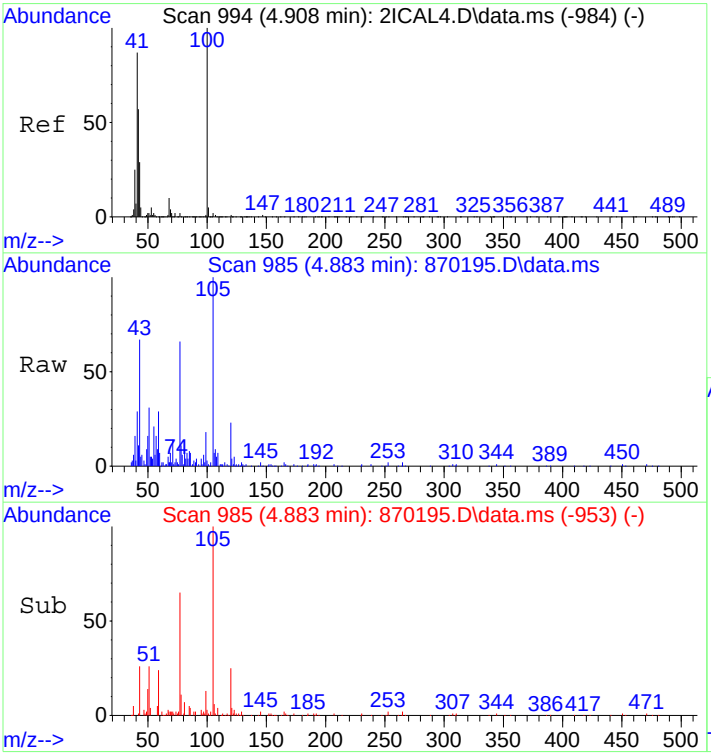


#15
2Methylphenol
Concen: 0.02 ug/mL
RT: 4.610 min Scan# 889
Delta R.T. -0.114 min
Lab File: 870195.D
Acq: 8 Dec 10 10:19 pm

Tgt Ion:108 Resp: 851

Ion	Ratio	Lower	Upper
108	100		
107	89.7	57.3	117.3

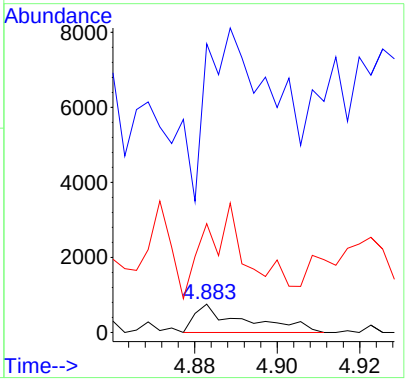


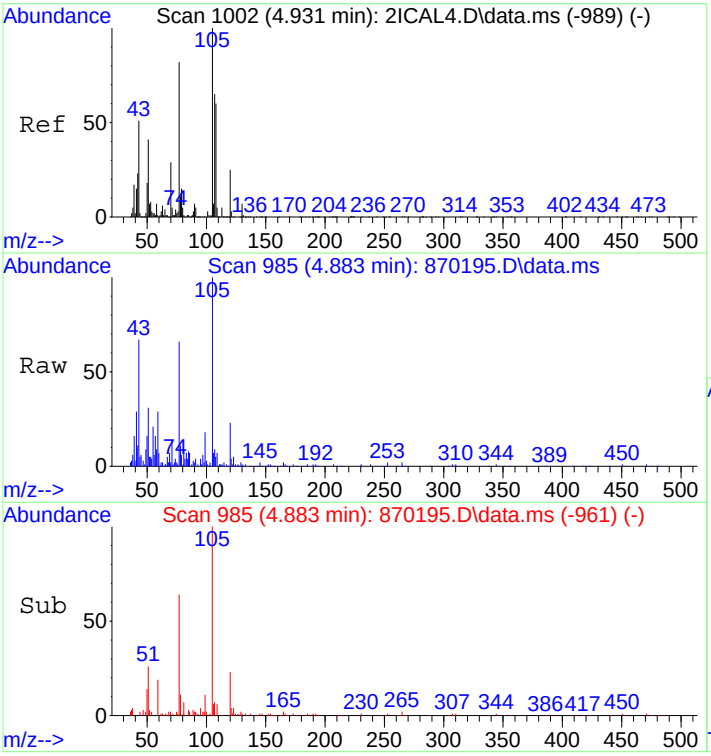


#16
Ntrspyrrol
Concen: 0.03 ug/mL
RT: 4.883 min Scan# 985
Delta R.T. -0.025 min
Lab File: 870195.D
Acq: 8 Dec 10 10:19 pm

Tgt Ion:100 Resp: 631

Ion	Ratio	Lower	Upper
100	100		
41	324.9	76.4	136.4#
42	322.6	46.7	106.7#

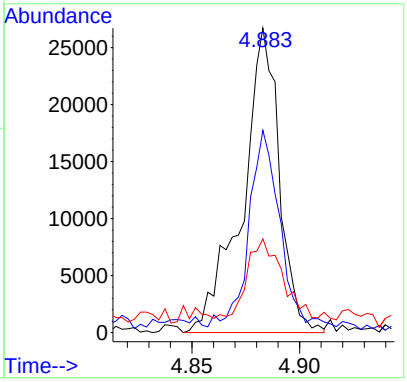


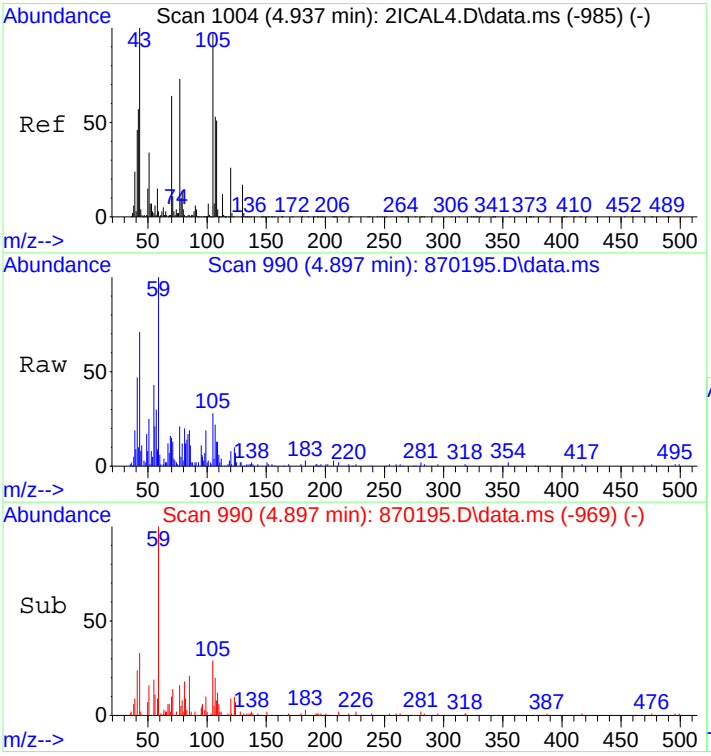


#17
Acetophenone
Concen: 0.52 ug/mL
RT: 4.883 min Scan# 985
Delta R.T. -0.048 min
Lab File: 870195.D
Acq: 8 Dec 10 10:19 pm

Tgt Ion:105 Resp: 32100

Ion	Ratio	Lower	Upper
105	100		
77	53.3	72.2	132.2#
51	24.0	18.8	78.8

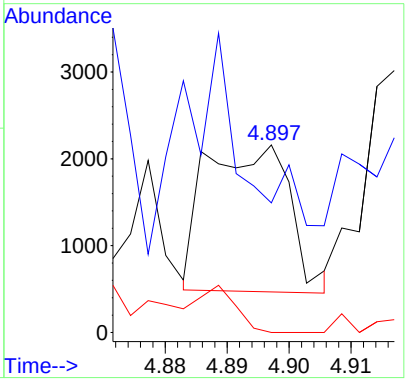


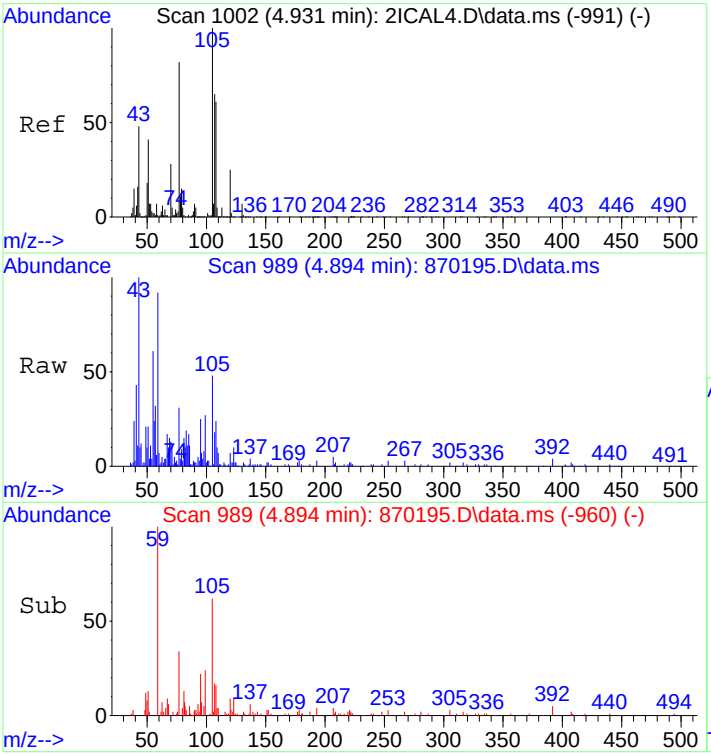


#19
N-Ntrsdinprop
Concen: 0.06 ug/mL
RT: 4.897 min Scan# 990
Delta R.T. -0.040 min
Lab File: 870195.D
Acq: 8 Dec 10 10:19 pm

Tgt Ion: 70 Resp: 1578

Ion	Ratio	Lower	Upper
70	100		
42	16.9	54.3	114.3#
113	0.0	0.0	43.5

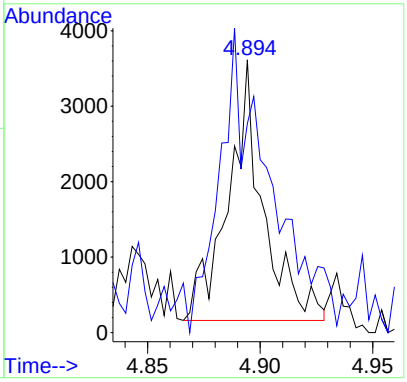


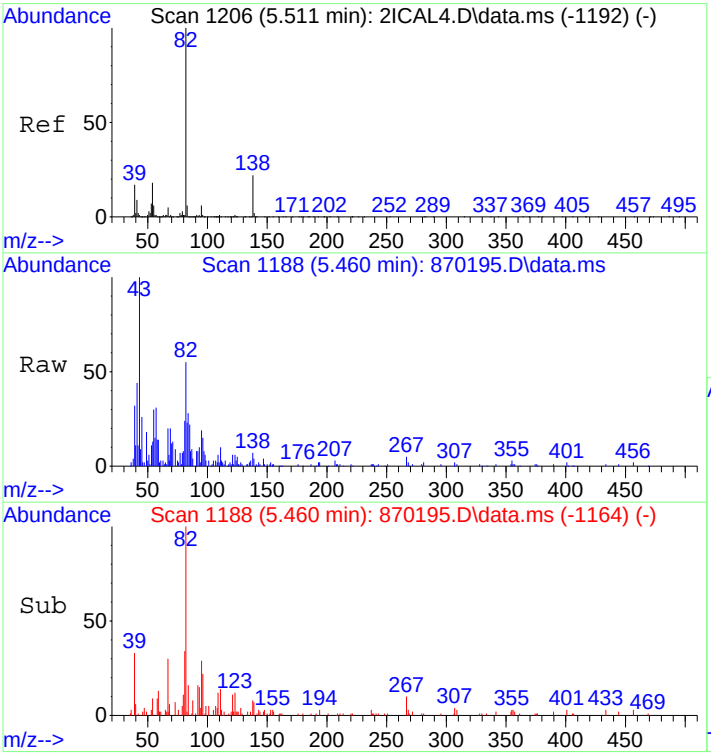


#20
3&4Methylphenol
Concen: 0.09 ug/mL
RT: 4.894 min Scan# 989
Delta R.T. -0.037 min
Lab File: 870195.D
Acq: 8 Dec 10 10:19 pm

Tgt Ion:108 Resp: 3729

Ion	Ratio	Lower	Upper
108	100		
107	61.2	74.6	134.6#

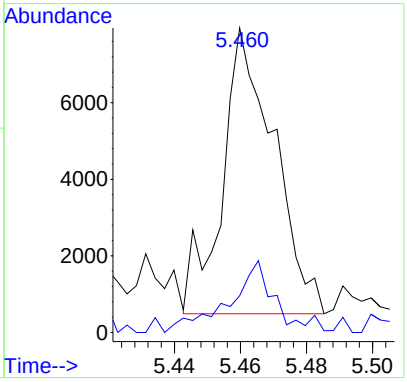


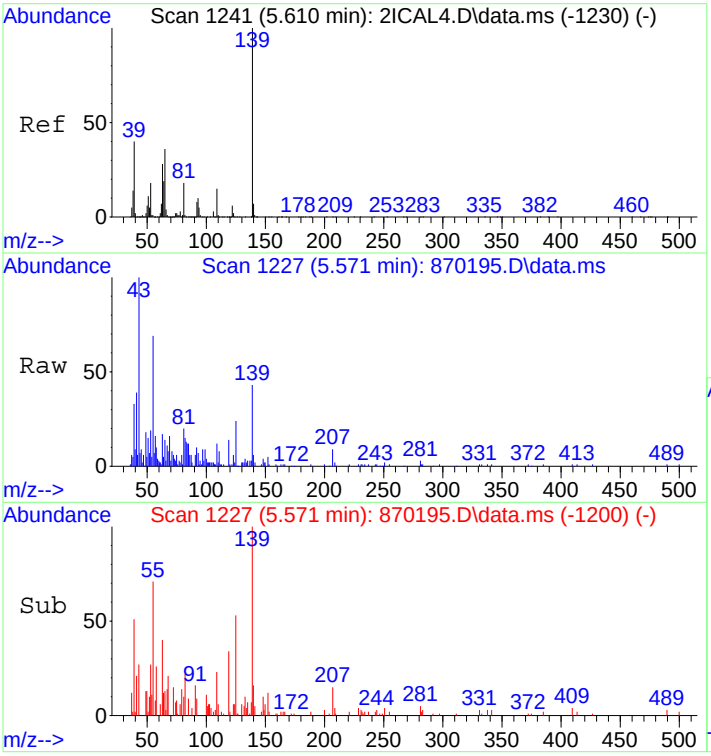


#24
Isophorone
Concen: 0.09 ug/mL
RT: 5.460 min Scan# 1188
Delta R.T. -0.051 min
Lab File: 870195.D
Acq: 8 Dec 10 10:19 pm

Tgt Ion: 82 Resp: 8158

Ion	Ratio	Lower	Upper
82	100		
138	7.9	0.0	48.8

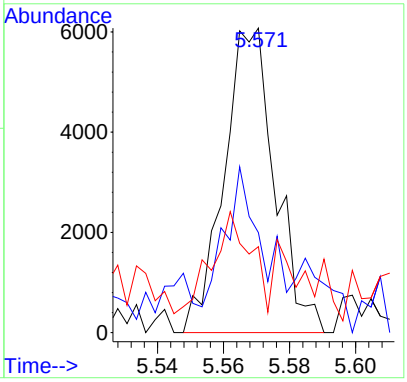


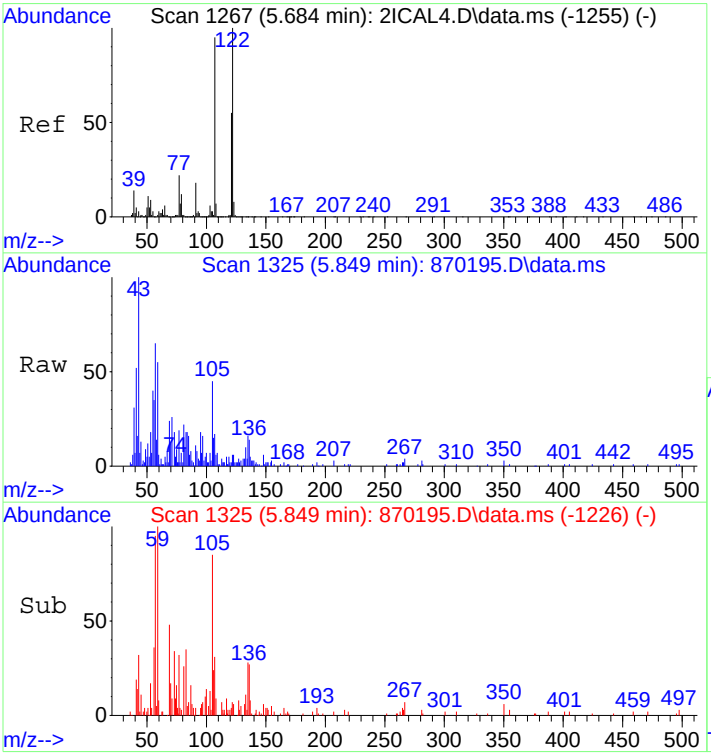


#25
2-Nitrophenol
Concen: 0.22 ug/mL
RT: 5.571 min Scan# 1227
Delta R.T. -0.040 min
Lab File: 870195.D
Acq: 8 Dec 10 10:19 pm

Tgt Ion:139 Resp: 6559

Ion	Ratio	Lower	Upper
139	100		
65	16.8	20.9	80.9#
109	19.7	0.0	57.4

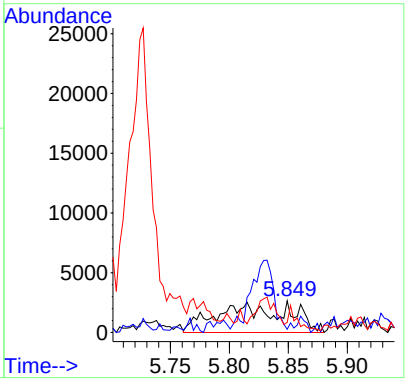


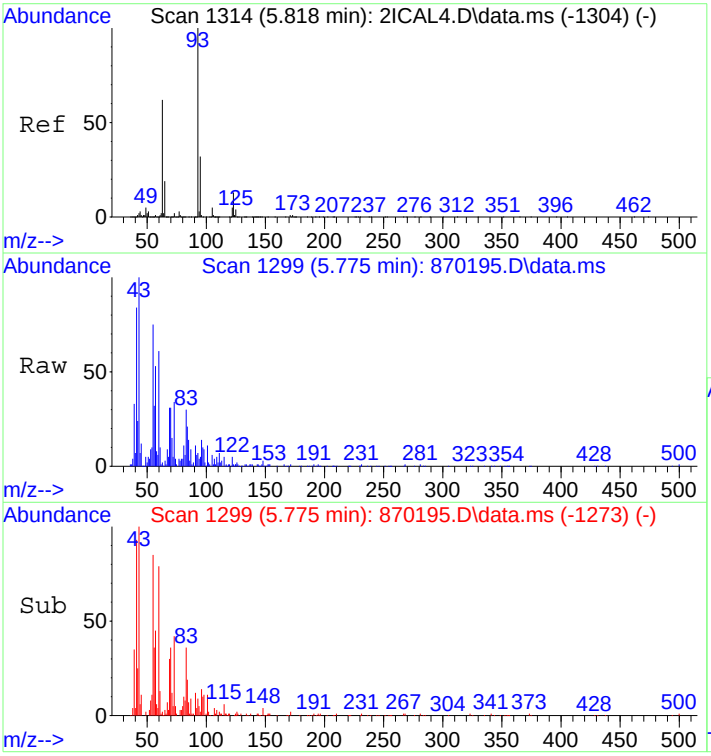


#26
24Dimthpheno
Concen: 0.22 ug/mL
RT: 5.849 min Scan# 1325
Delta R.T. 0.165 min
Lab File: 870195.D
Acq: 8 Dec 10 10:19 pm

Tgt Ion:107 Resp: 10021

Ion	Ratio	Lower	Upper
107	100		
121	2.8	22.2	82.2#
122	9.9	56.3	116.3#

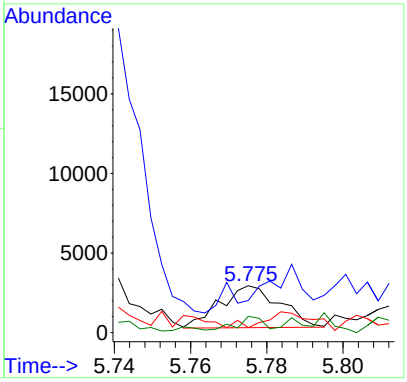


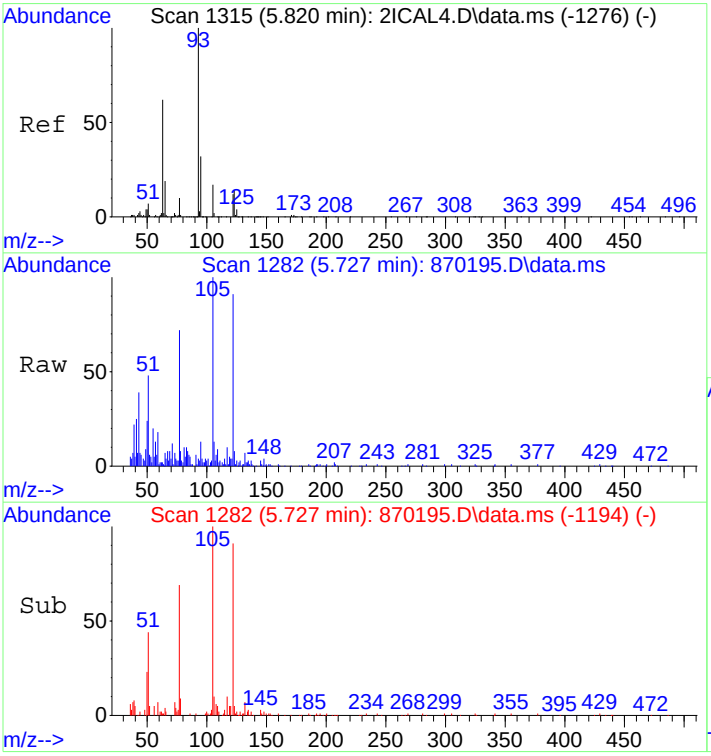


#27
bis2clethoxym
Concen: 0.05 ug/mL
RT: 5.775 min Scan# 1299
Delta R.T. -0.042 min
Lab File: 870195.D
Acq: 8 Dec 10 10:19 pm

Tgt Ion: 93 Resp: 2888

Ion	Ratio	Lower	Upper
93	100		
95	2.3	1.9	61.9
123	0.0	0.0	42.6
63	25.4	46.9	106.9#

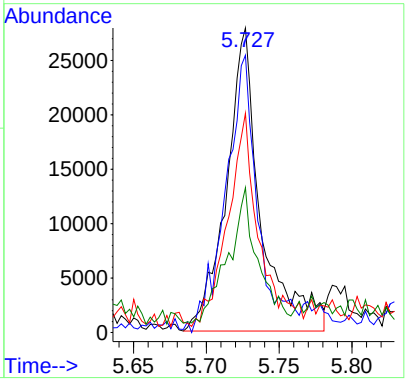


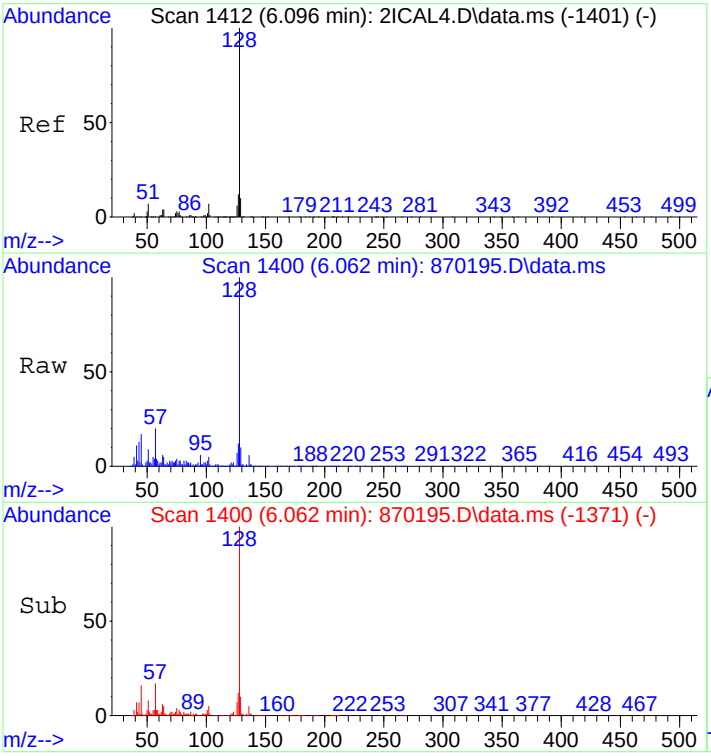


#30
Benzoic acid
Concen: 4.22 ug/mL
RT: 5.727 min Scan# 1282
Delta R.T. -0.023 min
Lab File: 870195.D
Acq: 8 Dec 10 10:19 pm

Tgt Ion:105 Resp: 46427

Ion	Ratio	Lower	Upper
105	100		
122	90.4	54.1	114.1
77	69.0	45.9	105.9
51	44.7	17.6	77.6

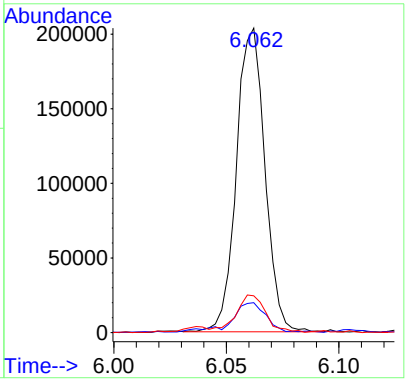


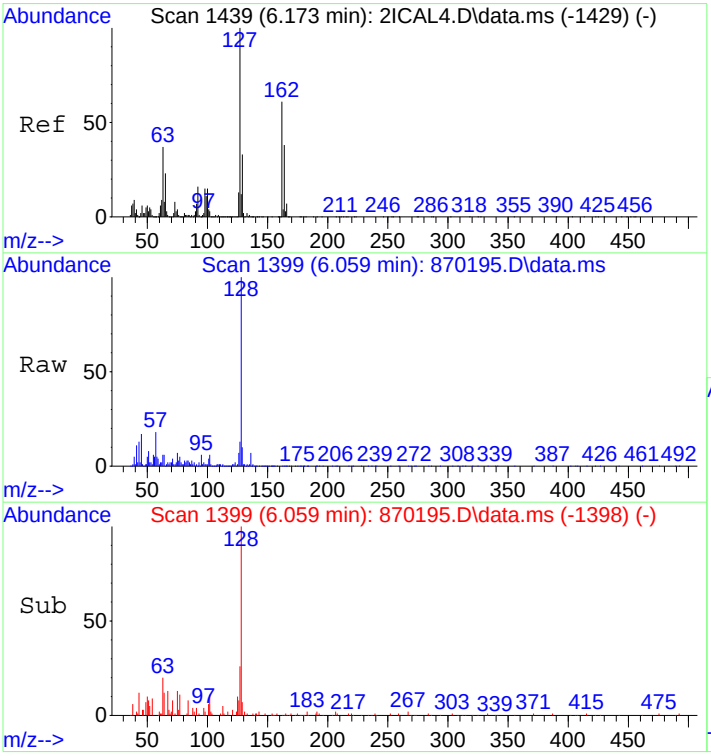


#31
Naphthalene
Concen: 1.07 ug/mL
RT: 6.062 min Scan# 1400
Delta R.T. -0.034 min
Lab File: 870195.D
Acq: 8 Dec 10 10:19 pm

Tgt Ion:128 Resp: 179505

Ion	Ratio	Lower	Upper
128	100		
129	9.8	0.0	40.3
127	11.4	0.0	41.9

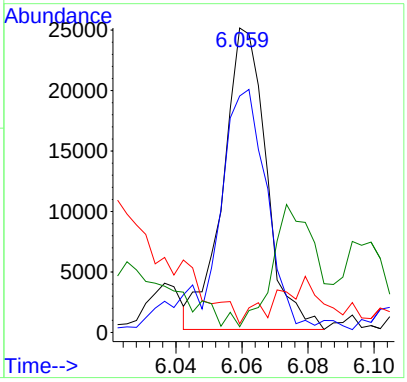


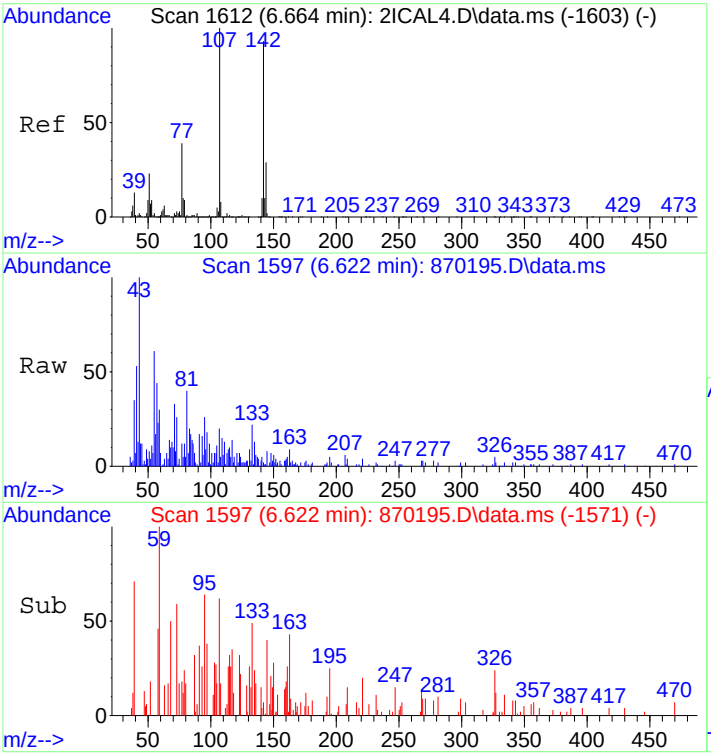


#32
4-Cl-aniline
Concen: 0.36 ug/mL
RT: 6.059 min Scan# 1399
Delta R.T. -0.114 min
Lab File: 870195.D
Acq: 8 Dec 10 10:19 pm

Tgt Ion:127 Resp: 22786

Ion	Ratio	Lower	Upper
127	100		
129	74.5	1.8	61.8#
65	0.0	1.6	61.6#
92	0.0	0.0	48.2

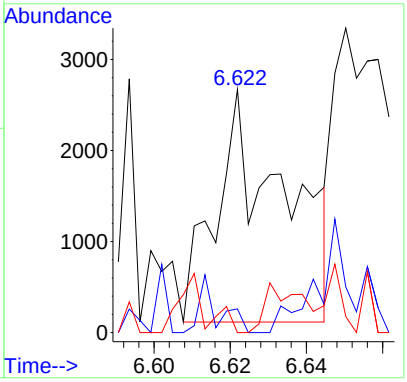


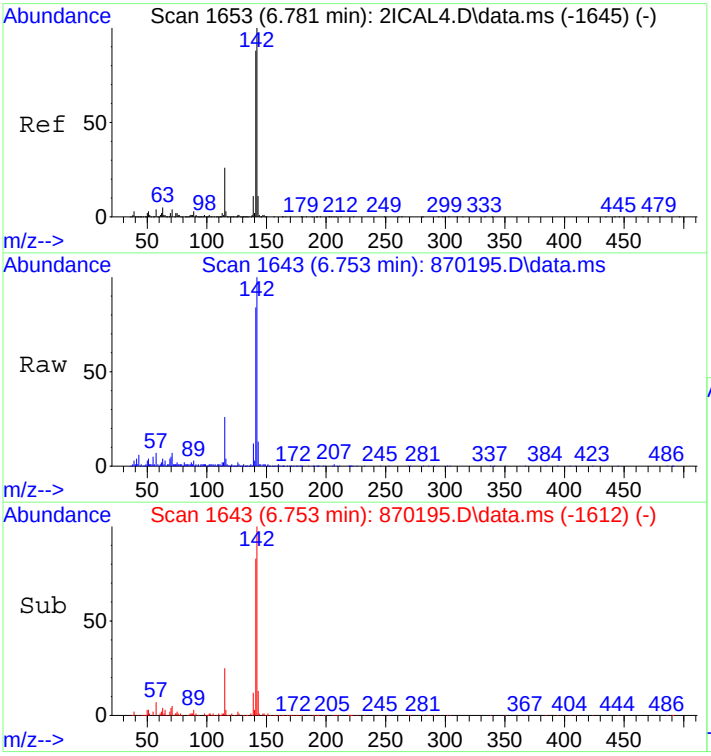


#36
4Cl3methylphe
Concen: 0.08 ug/mL
RT: 6.622 min Scan# 1597
Delta R.T. -0.043 min
Lab File: 870195.D
Acq: 8 Dec 10 10:19 pm

Tgt Ion:107 Resp: 3154

Ion	Ratio	Lower	Upper
107	100		
142	10.2	50.0	110.0#
144	0.0	0.0	56.8

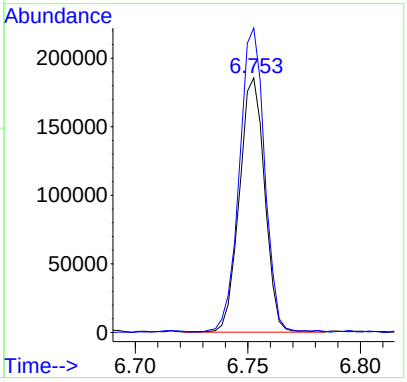


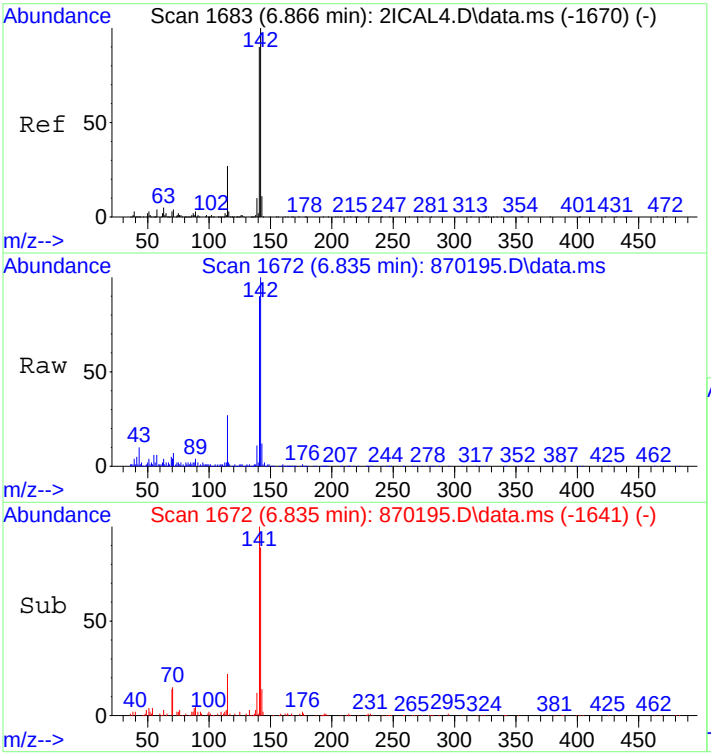


#37
2Methylnaphth
Concen: 1.55 ug/mL
RT: 6.753 min Scan# 1643
Delta R.T. -0.028 min
Lab File: 870195.D
Acq: 8 Dec 10 10:19 pm

Tgt Ion:141 Resp: 144868

Ion	Ratio	Lower	Upper
141	100		
142	119.3	83.7	143.7

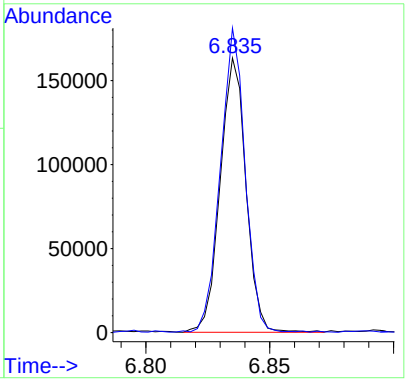


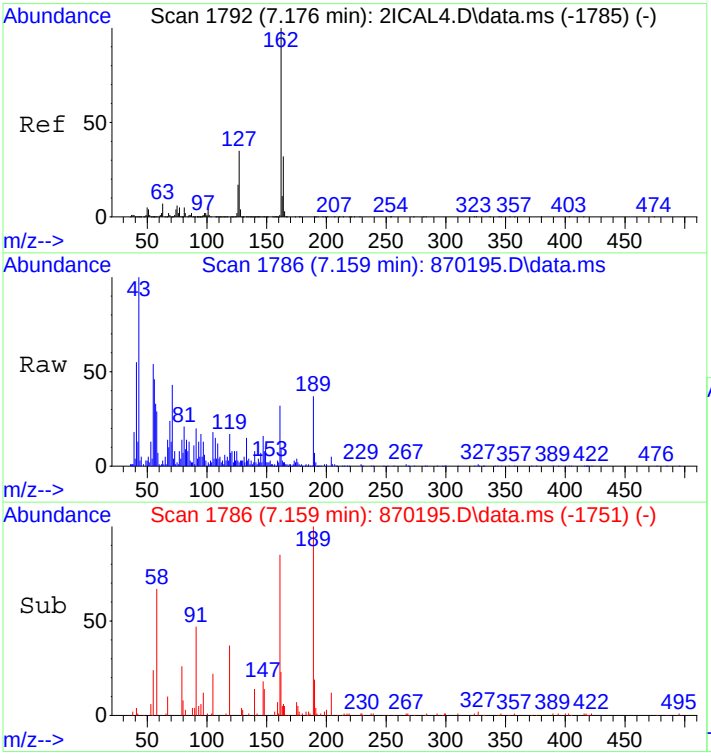


#38
1Methylnaphth
Concen: 1.22 ug/mL
RT: 6.835 min Scan# 1672
Delta R.T. -0.031 min
Lab File: 870195.D
Acq: 8 Dec 10 10:19 pm

Tgt Ion:141 Resp: 118303

Ion	Ratio	Lower	Upper
141	100		
142	110.6	79.5	139.5

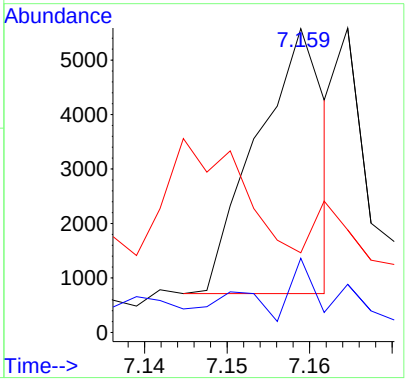


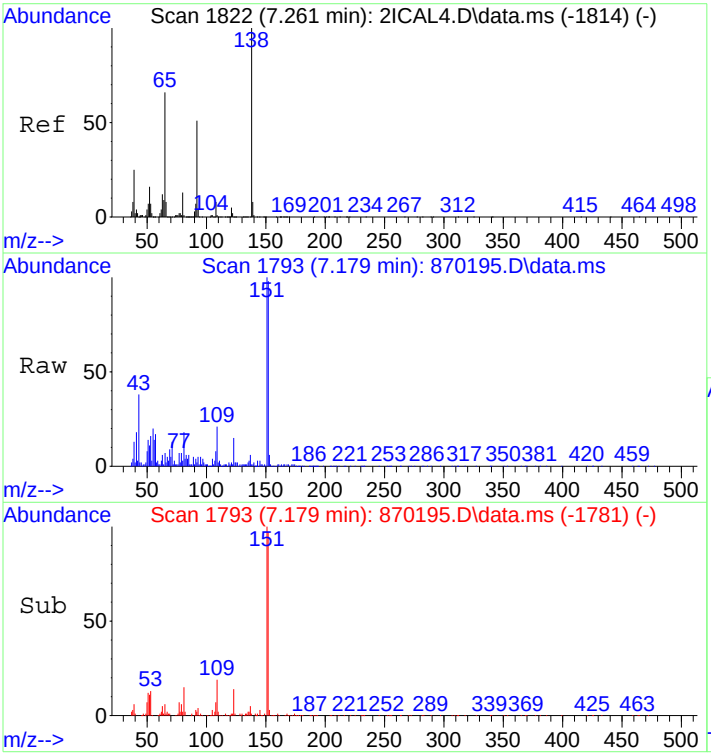


#45
2Clnaphthalen
Concen: 0.03 ug/mL
RT: 7.159 min Scan# 1786
Delta R.T. -0.017 min
Lab File: 870195.D
Acq: 8 Dec 10 10:19 pm

Tgt Ion:162 Resp: 2792

Ion	Ratio	Lower	Upper
162	100		
164	20.4	2.5	62.5
127	0.0	7.1	67.1#

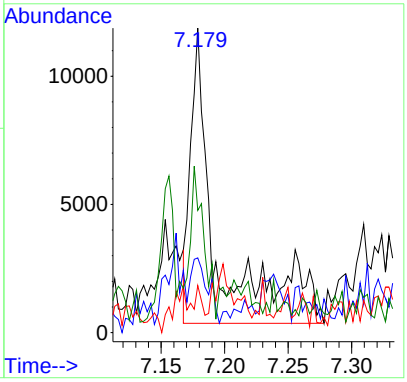


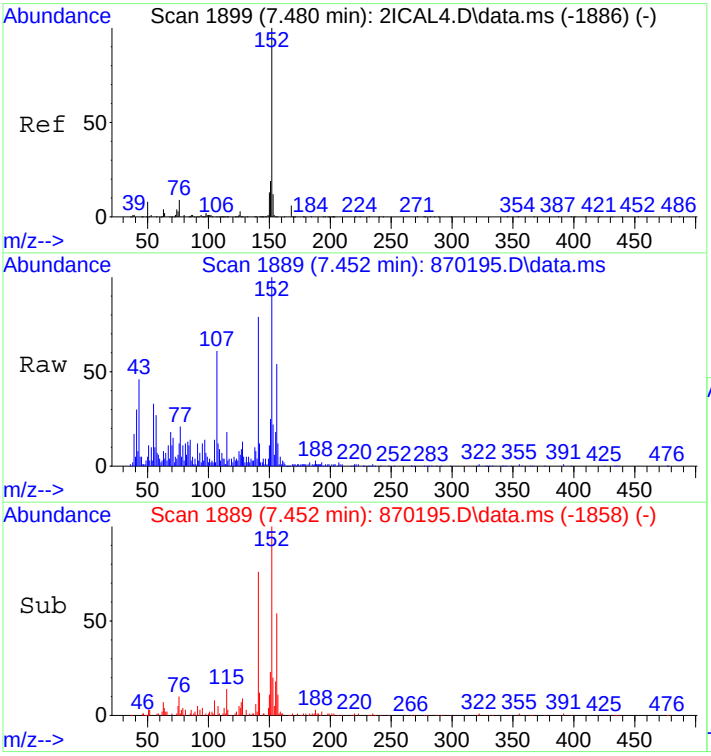


#46
2Nitroaniline
Concen: 0.71 ug/mL
RT: 7.179 min Scan# 1793
Delta R.T. -0.082 min
Lab File: 870195.D
Acq: 8 Dec 10 10:19 pm

Tgt Ion: 65 Resp: 16903

Ion	Ratio	Lower	Upper
65	100		
92	15.2	32.1	92.1#
138	11.7	73.8	133.8#
80	38.0	0.0	55.1

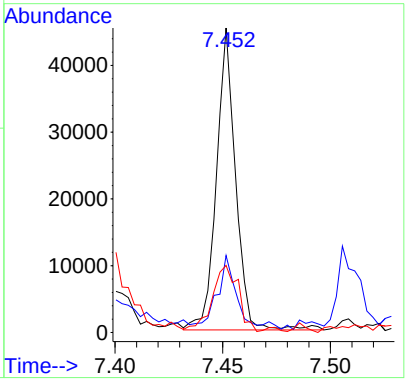


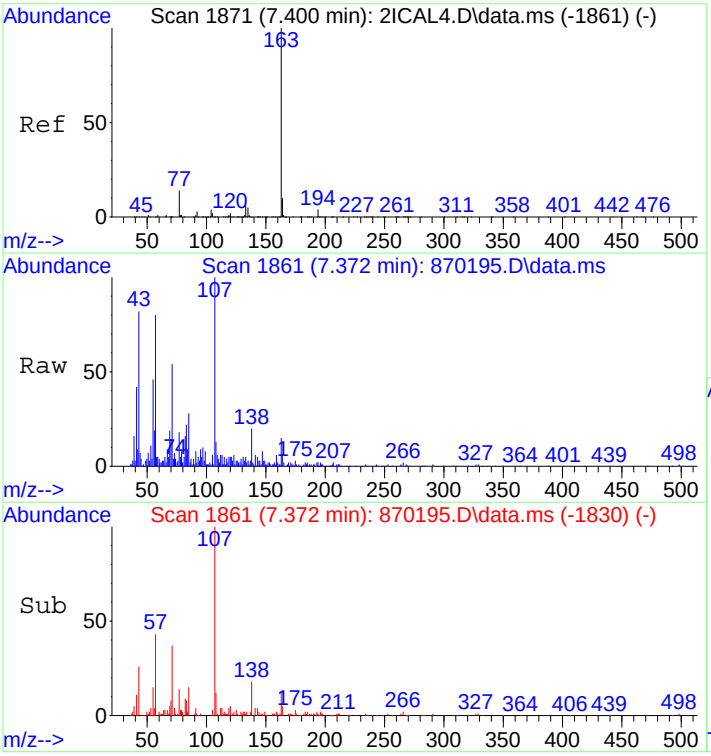


#47
Acnaphthylene
Concen: 0.16 ug/mL
RT: 7.452 min Scan# 1889
Delta R.T. -0.028 min
Lab File: 870195.D
Acq: 8 Dec 10 10:19 pm

Tgt Ion:152 Resp: 28210

Ion	Ratio	Lower	Upper
152	100		
151	23.4	0.0	49.5
153	21.2	0.0	43.0

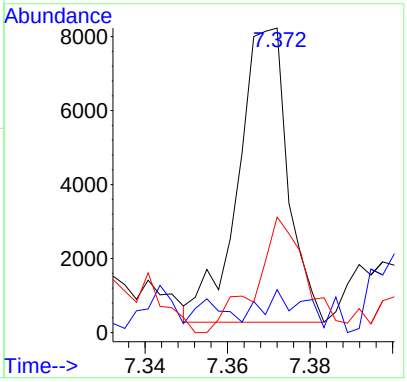


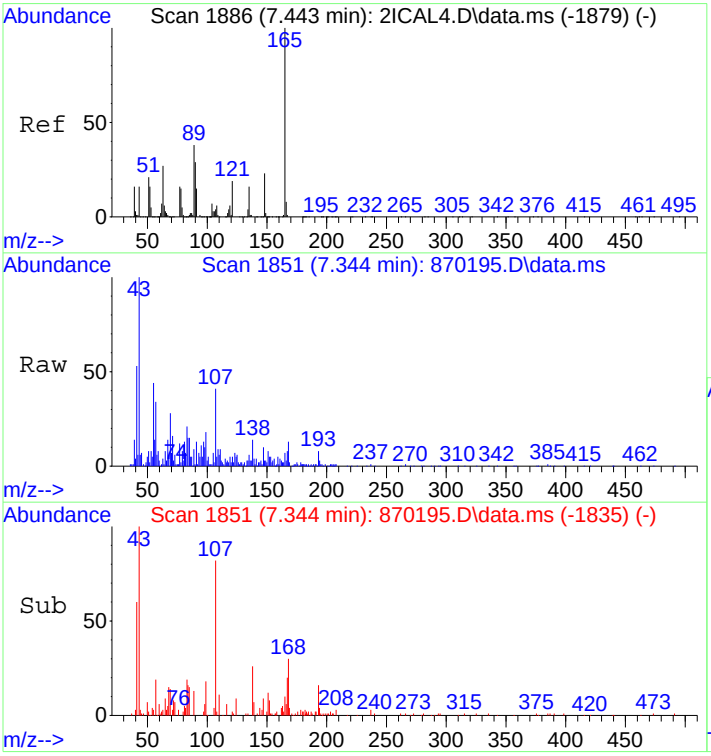


#48
Dimethylphtha
Concen: 0.06 ug/mL
RT: 7.372 min Scan# 1861
Delta R.T. -0.028 min
Lab File: 870195.D
Acq: 8 Dec 10 10:19 pm

Tgt Ion:163 Resp: 6678

Ion	Ratio	Lower	Upper
163	100		
194	12.9	0.0	34.0
164	34.1	0.0	40.3

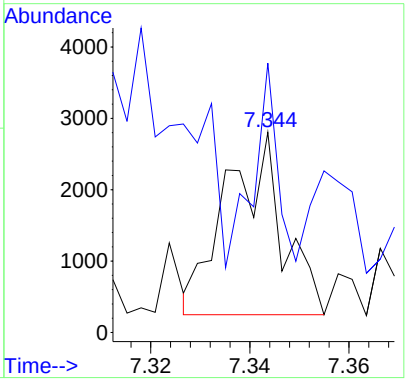


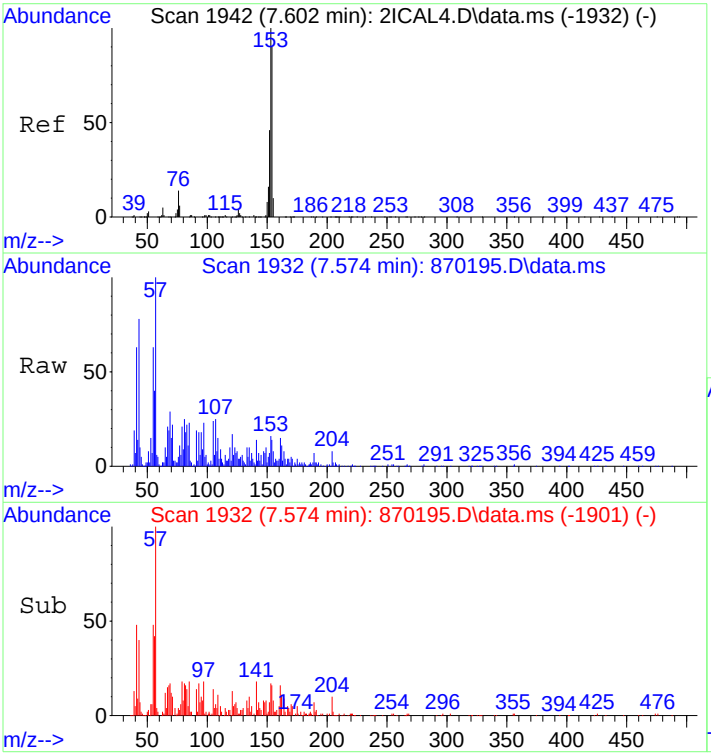


#49
26Dinitrotolu
Concen: 0.08 ug/mL
RT: 7.344 min Scan# 1851
Delta R.T. -0.099 min
Lab File: 870195.D
Acq: 8 Dec 10 10:19 pm

Tgt Ion:165 Resp: 2007

Ion	Ratio	Lower	Upper
165	100		
89	59.1	20.8	80.8

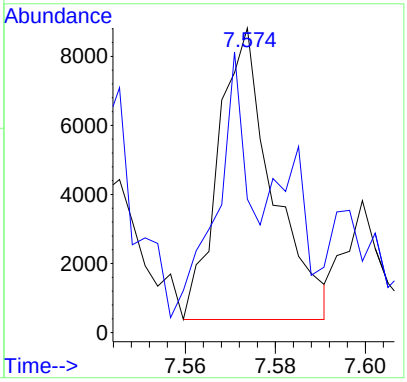


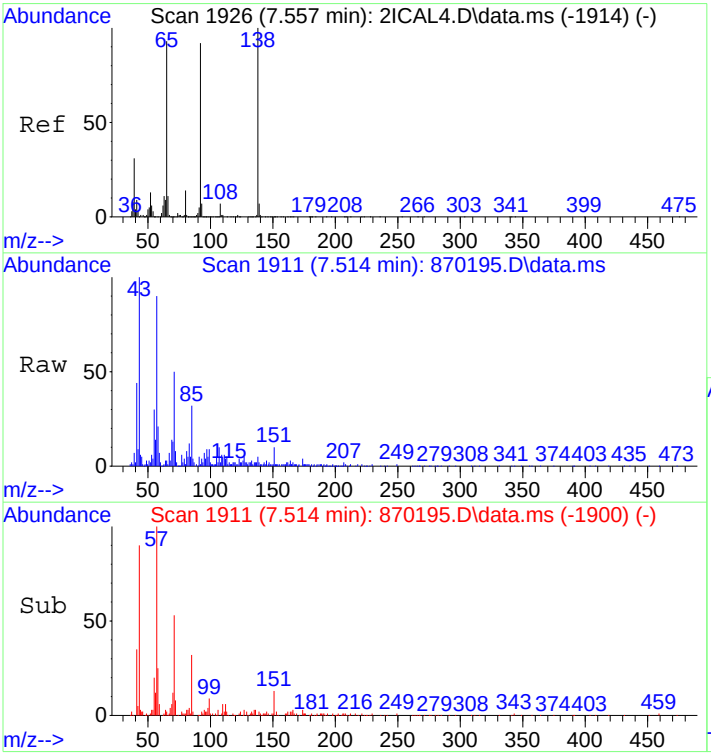


#50
Acenaphthene
Concen: 0.06 ug/mL
RT: 7.574 min Scan# 1932
Delta R.T. -0.028 min
Lab File: 870195.D
Acq: 8 Dec 10 10:19 pm

Tgt Ion:153 Resp: 7076

Ion	Ratio	Lower	Upper
153	100		
152	31.4	15.5	75.5

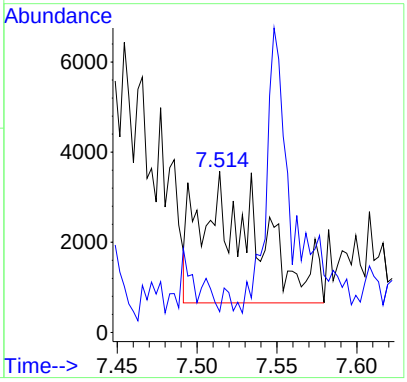


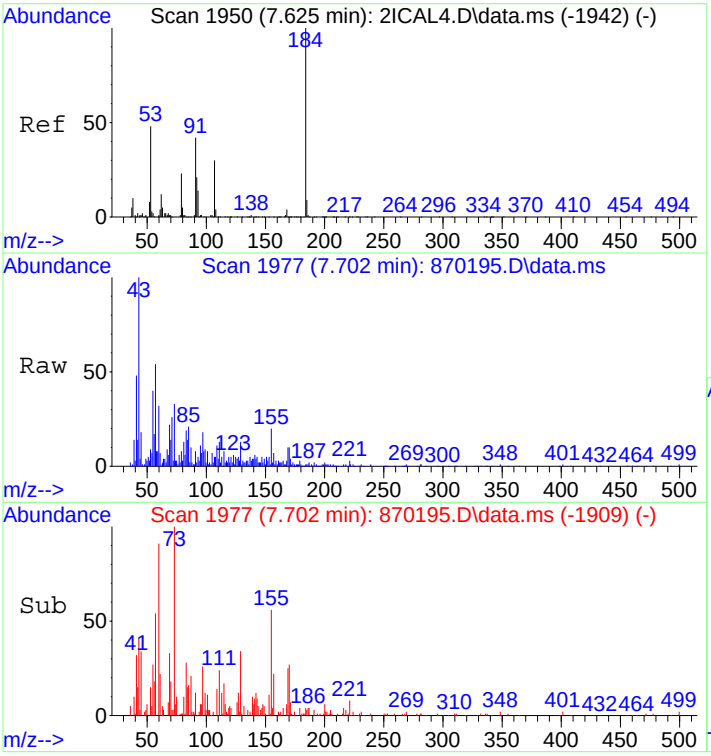


#51
3Nitroaniline
Concen: 0.26 ug/mL
RT: 7.514 min Scan# 1911
Delta R.T. -0.043 min
Lab File: 870195.D
Acq: 8 Dec 10 10:19 pm

Tgt Ion:138 Resp: 7201

Ion	Ratio	Lower	Upper
138	100		
92	0.0	74.6	134.6#

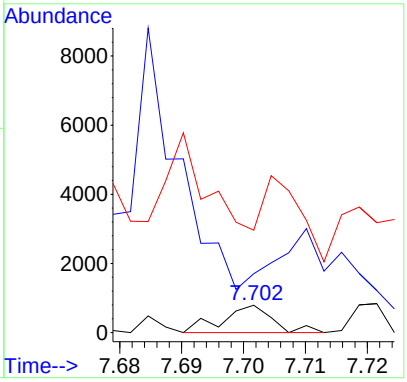


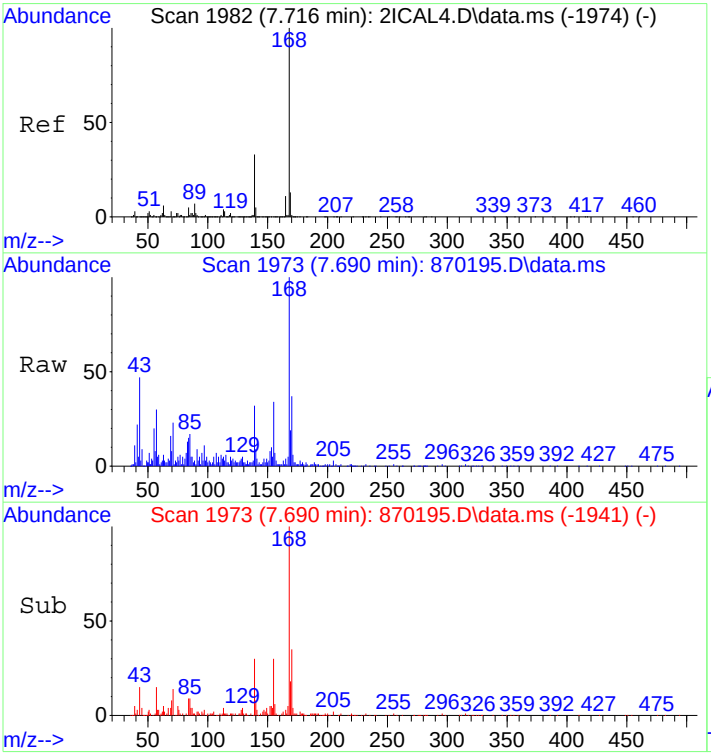


#52
24Dinitphenol
Concen: 2.40 ug/mL
RT: 7.702 min Scan# 1977
Delta R.T. 0.077 min
Lab File: 870195.D
Acq: 8 Dec 10 10:19 pm

Tgt Ion:184 Resp: 448

Ion	Ratio	Lower	Upper
184	100		
63	215.3	44.6	104.6#
107	374.0	13.0	73.0#

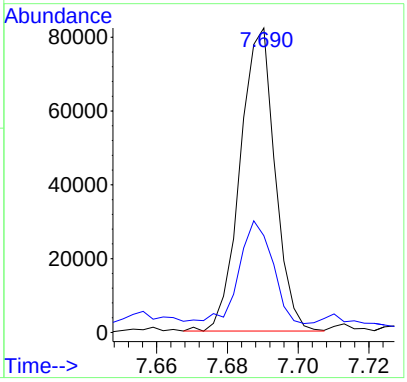


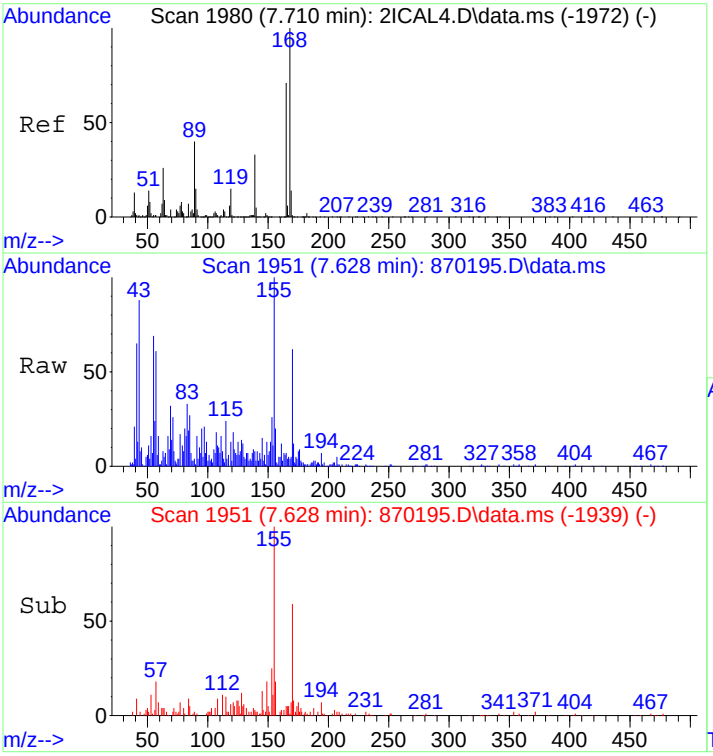


#53
Dibenzofuran
Concen: 0.39 ug/mL
RT: 7.690 min Scan# 1973
Delta R.T. -0.025 min
Lab File: 870195.D
Acq: 8 Dec 10 10:19 pm

Tgt Ion:168 Resp: 56138

Ion	Ratio	Lower	Upper
168	100		
139	28.2	7.1	67.1

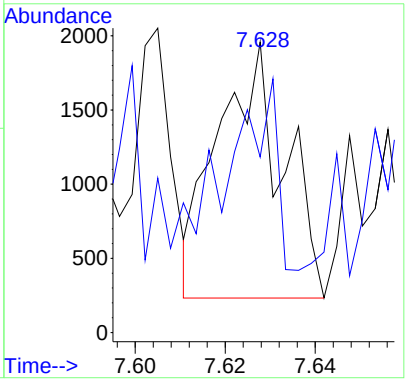


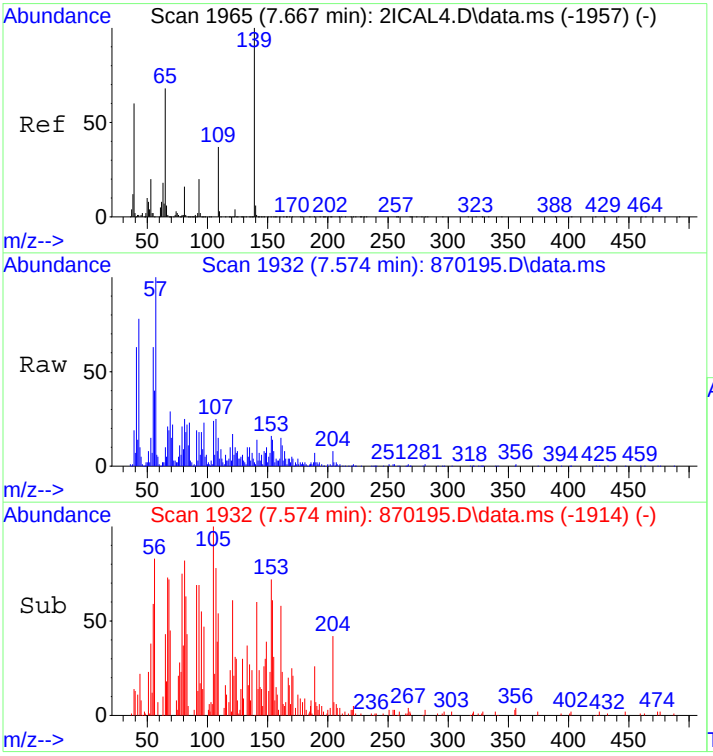


#54
24Dinitrotolu
Concen: 0.05 ug/mL
RT: 7.628 min Scan# 1951
Delta R.T. -0.082 min
Lab File: 870195.D
Acq: 8 Dec 10 10:19 pm

Tgt Ion:165 Resp: 1752

Ion	Ratio	Lower	Upper
165	100		
89	54.2	41.4	101.4

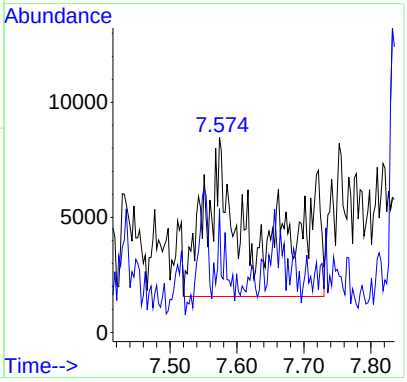


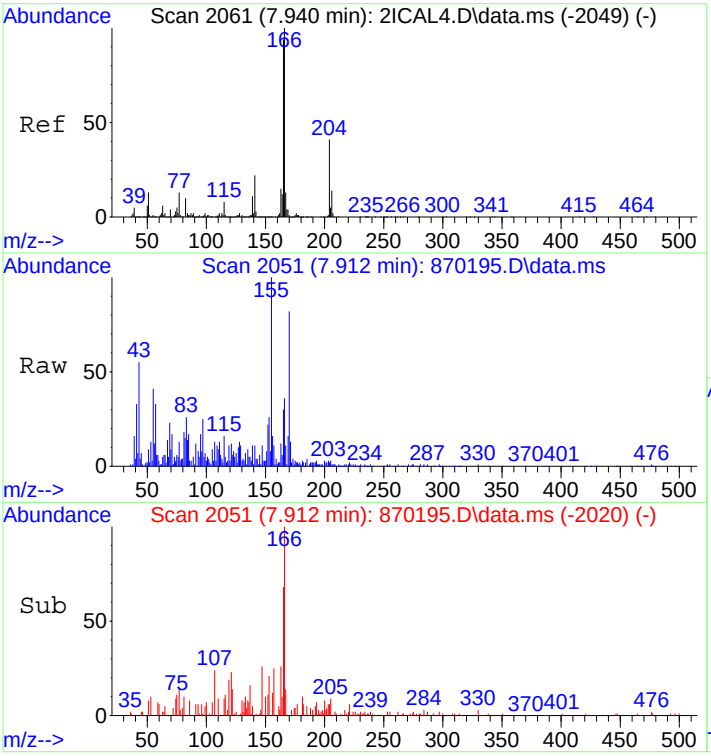


#55
4-Nitrophenol
Concen: 4.37 ug/mL
RT: 7.574 min Scan# 1932
Delta R.T. -0.094 min
Lab File: 870195.D
Acq: 8 Dec 10 10:19 pm

Tgt Ion:109 Resp: 38624

Ion	Ratio	Lower	Upper
109	100		
65	50.3	123.5	183.5#

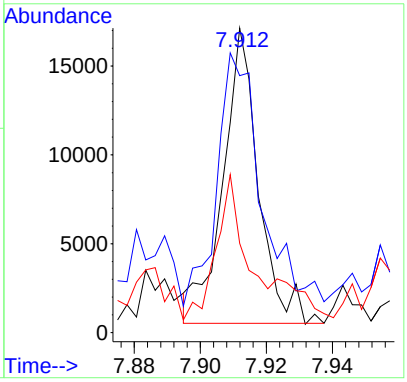


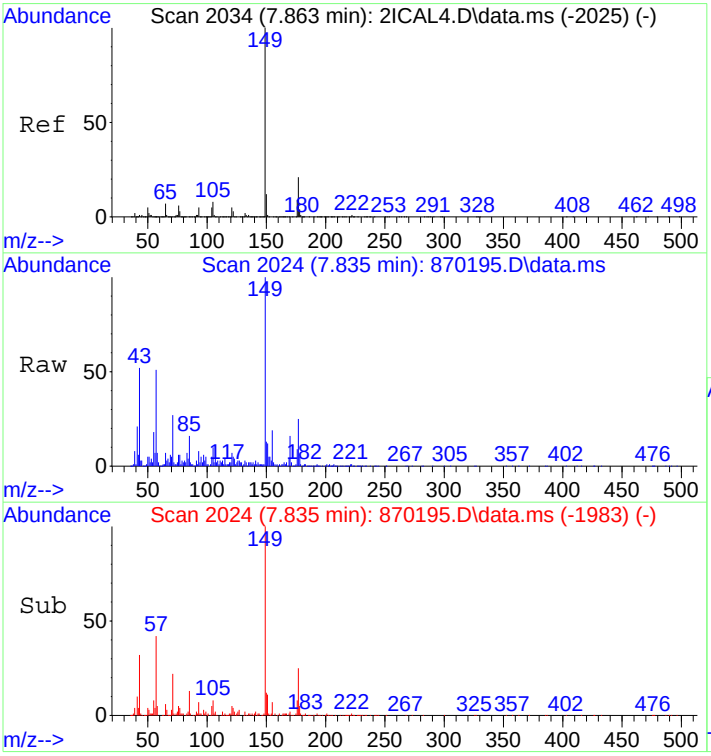


#58
Fluorene
Concen: 0.11 ug/mL
RT: 7.912 min Scan# 2051
Delta R.T. -0.028 min
Lab File: 870195.D
Acq: 8 Dec 10 10:19 pm

Tgt Ion:166 Resp: 12424

Ion	Ratio	Lower	Upper
166	100		
165	78.1	64.5	124.5
167	25.9	0.0	42.6

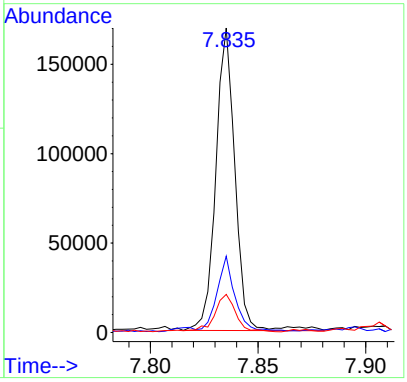


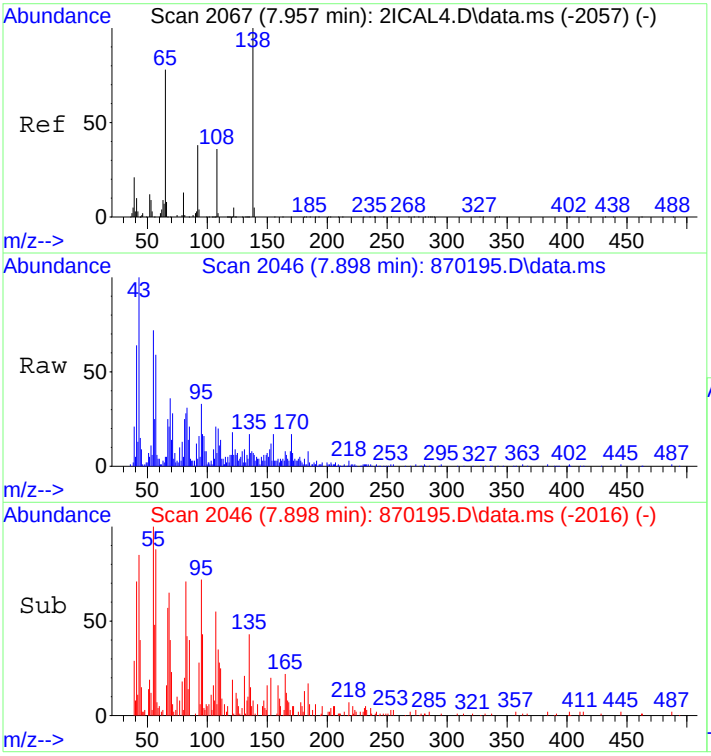


#60
Diethylphthal
Concen: 0.88 ug/mL
RT: 7.835 min Scan# 2024
Delta R.T. -0.028 min
Lab File: 870195.D
Acq: 8 Dec 10 10:19 pm

Tgt Ion:149 Resp: 105276

Ion	Ratio	Lower	Upper
149	100		
177	24.4	0.0	52.2
150	12.2	0.0	42.5

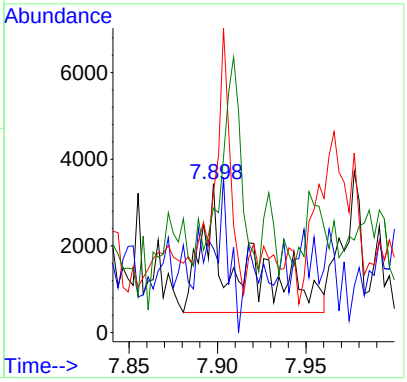


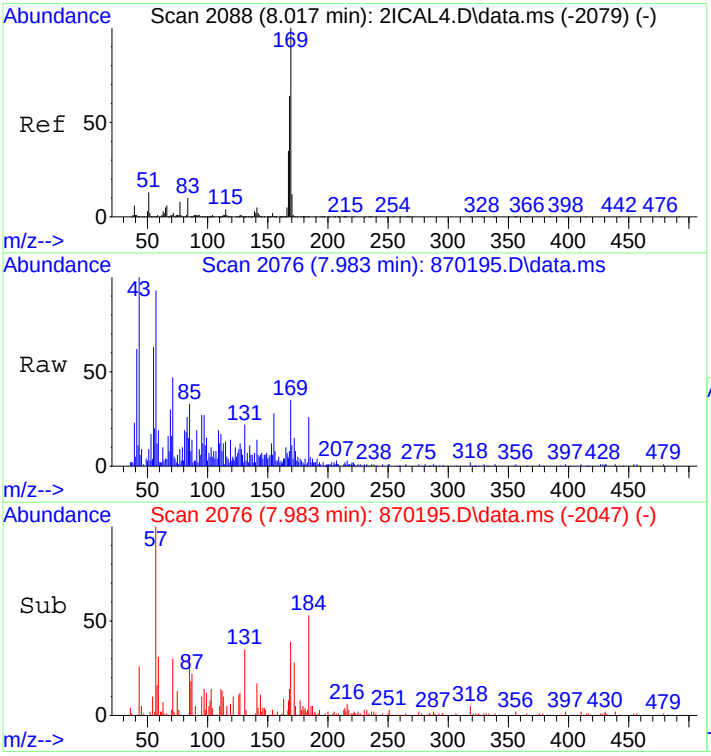


#61
4Nitroaniline
Concen: 0.17 ug/mL
RT: 7.898 min Scan# 2046
Delta R.T. -0.060 min
Lab File: 870195.D
Acq: 8 Dec 10 10:19 pm

Tgt Ion:138 Resp: 4497

Ion	Ratio	Lower	Upper
138	100		
92	16.2	19.9	79.9#
108	55.3	39.4	99.4
139	14.8	0.0	41.3

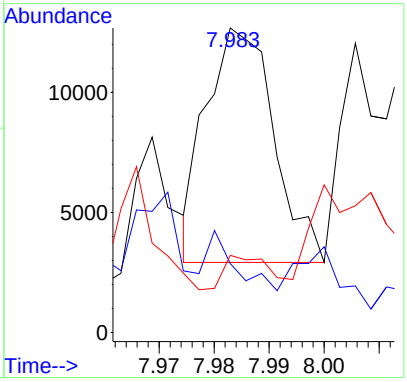


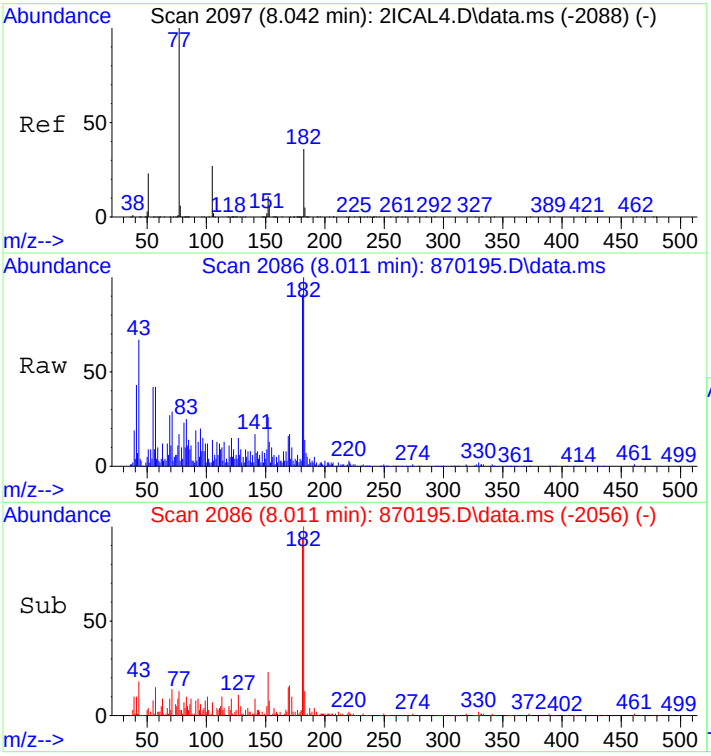


#65
Ntrsdiphlam&Diphlam
Concen: 0.11 ug/mL
RT: 7.983 min Scan# 2076
Delta R.T. -0.034 min
Lab File: 870195.D
Acq: 8 Dec 10 10:19 pm

Tgt Ion:169 Resp: 8361

Ion	Ratio	Lower	Upper
169	100		
168	3.2	34.8	94.8#
167	7.6	4.6	64.6

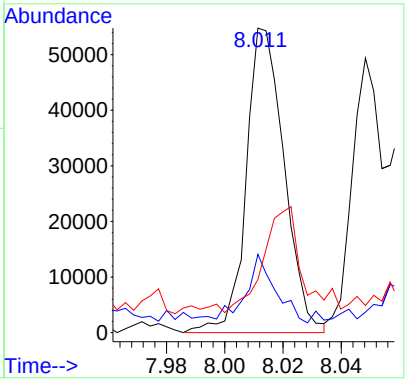


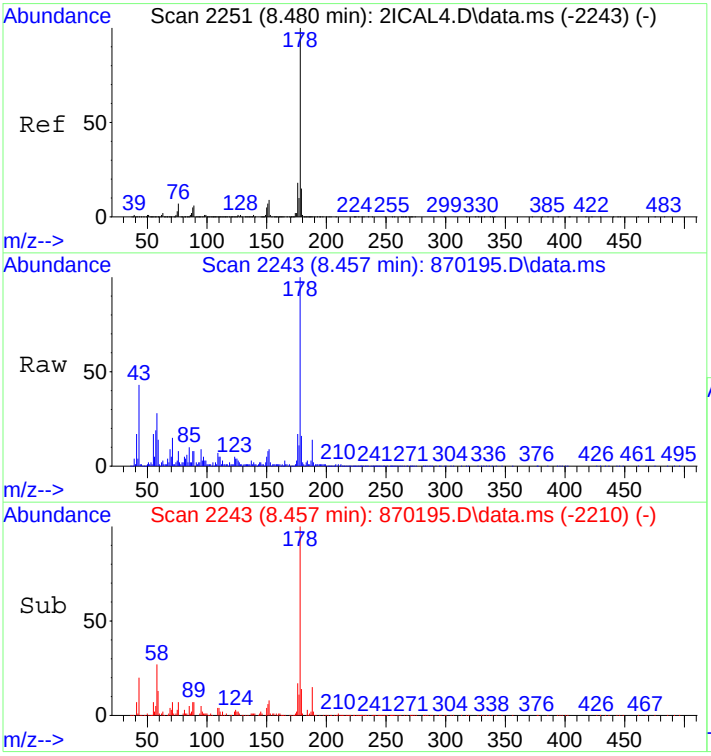


#66
Azobenz&12Diphlhyd
Concen: 1.68 ug/mL
RT: 8.011 min Scan# 2086
Delta R.T. -0.031 min
Lab File: 870195.D
Acq: 8 Dec 10 10:19 pm

Tgt Ion:182 Resp: 49667

Ion	Ratio	Lower	Upper
182	100		
152	21.6	3.5	63.5
77	9.4	348.6	408.6#

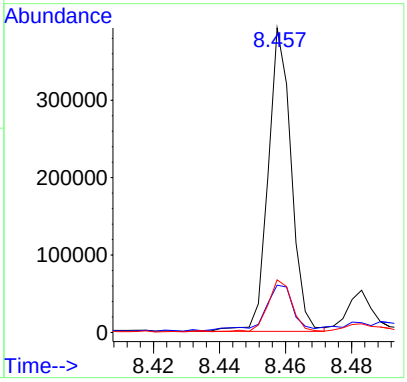


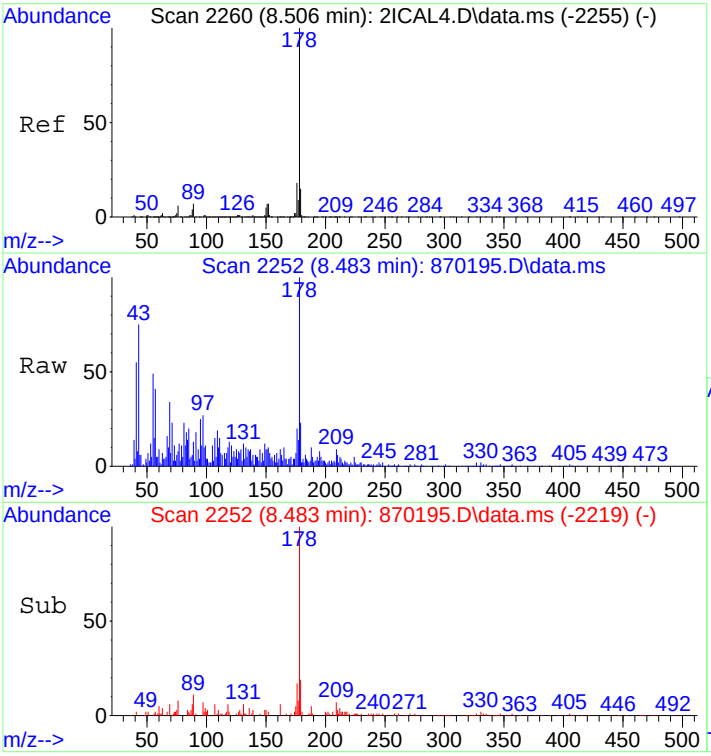


#70
Phenanthrene
Concen: 1.36 ug/mL
RT: 8.457 min Scan# 2243
Delta R.T. -0.023 min
Lab File: 870195.D
Acq: 8 Dec 10 10:19 pm

Tgt Ion:178 Resp: 190079

Ion	Ratio	Lower	Upper
178	100		
179	15.2	0.0	44.4
176	17.2	0.0	48.0

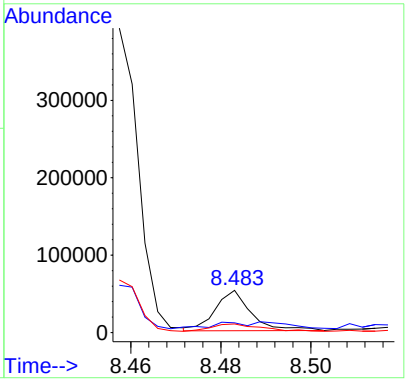


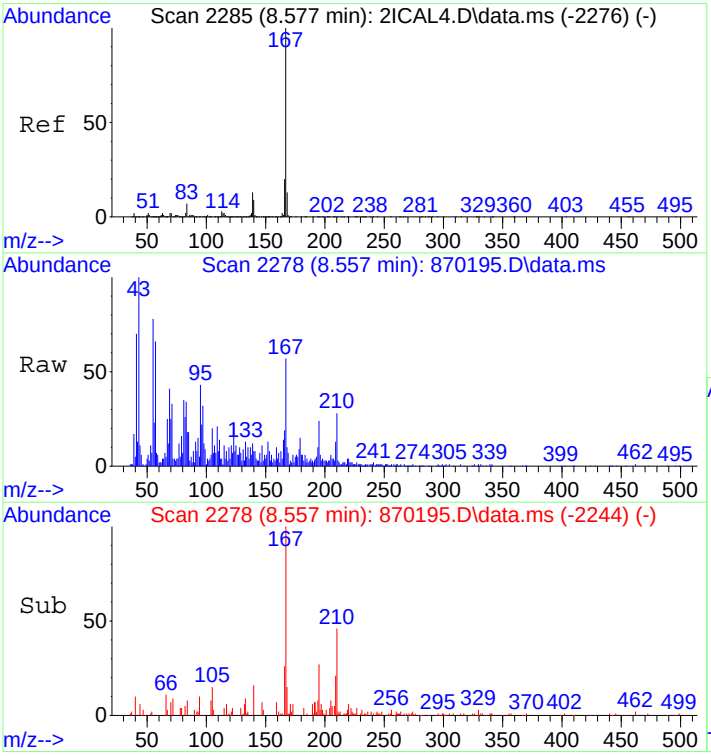


#71
Anthracene
Concen: 0.20 ug/mL
RT: 8.483 min Scan# 2252
Delta R.T. -0.023 min
Lab File: 870195.D
Acq: 8 Dec 10 10:19 pm

Tgt Ion:178 Resp: 28932

Ion	Ratio	Lower	Upper
178	100		
179	13.7	0.0	45.0
176	18.4	0.0	48.4

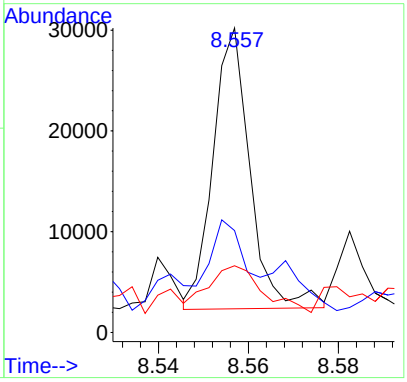


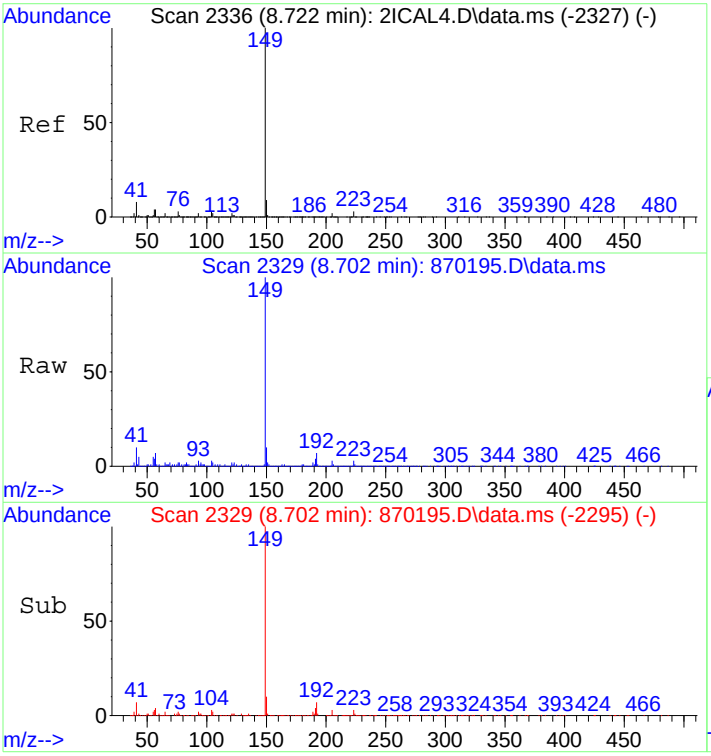


#72
Carbazole
Concen: 0.13 ug/mL
RT: 8.557 min Scan# 2278
Delta R.T. -0.020 min
Lab File: 870195.D
Acq: 8 Dec 10 10:19 pm

Tgt Ion:167 Resp: 15924

Ion	Ratio	Lower	Upper
167	100		
166	26.2	0.0	50.6
139	13.7	0.0	43.0

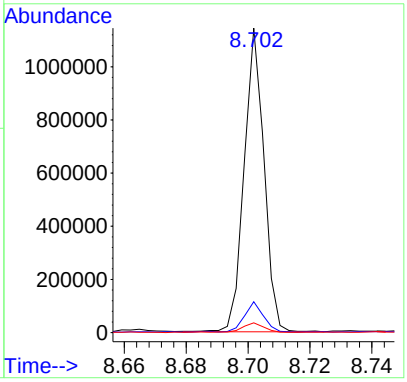


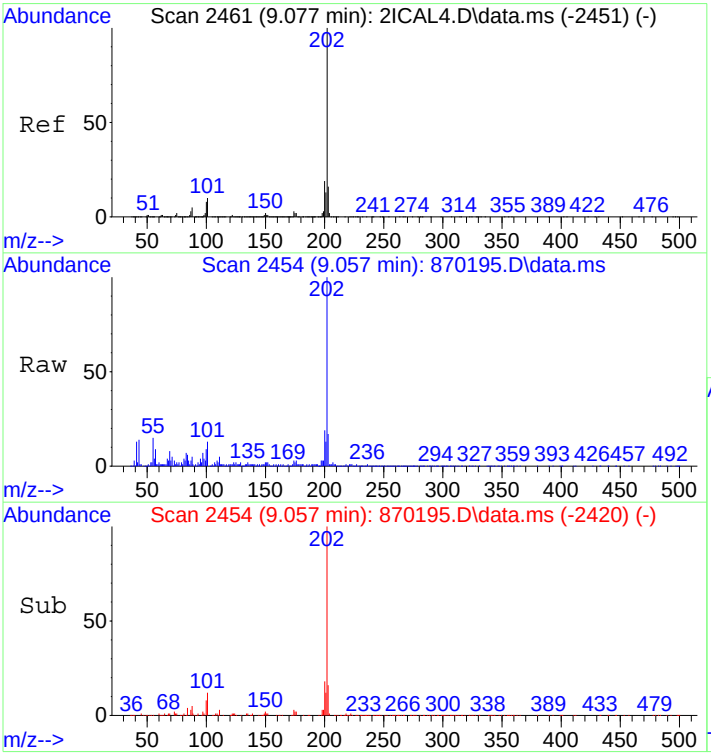


#73
Dinbtylphthal
Concen: 3.15 ug/mL
RT: 8.702 min Scan# 2329
Delta R.T. -0.020 min
Lab File: 870195.D
Acq: 8 Dec 10 10:19 pm

Tgt Ion:149 Resp: 511114

Ion	Ratio	Lower	Upper
149	100		
150	10.0	0.0	38.5
104	3.1	0.0	34.3

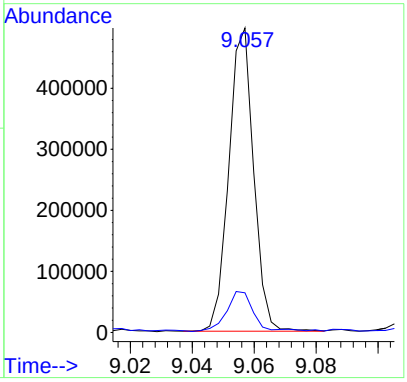


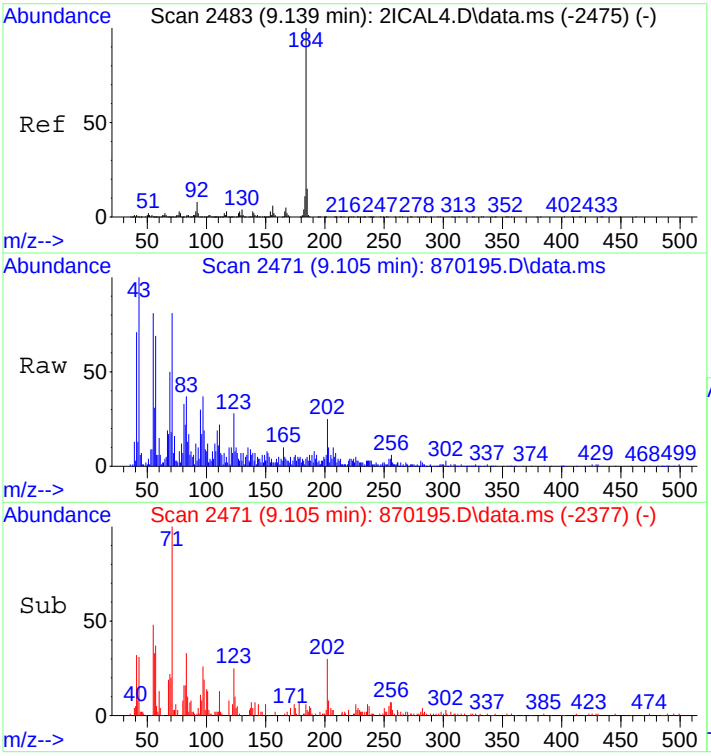


#74
Fluoranthene
Concen: 1.96 ug/mL
RT: 9.057 min Scan# 2454
Delta R.T. -0.020 min
Lab File: 870195.D
Acq: 8 Dec 10 10:19 pm

Tgt Ion:202 Resp: 276286

Ion	Ratio	Lower	Upper
202	100		
101	12.6	0.0	41.2

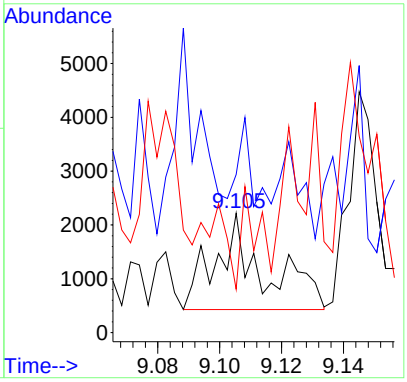


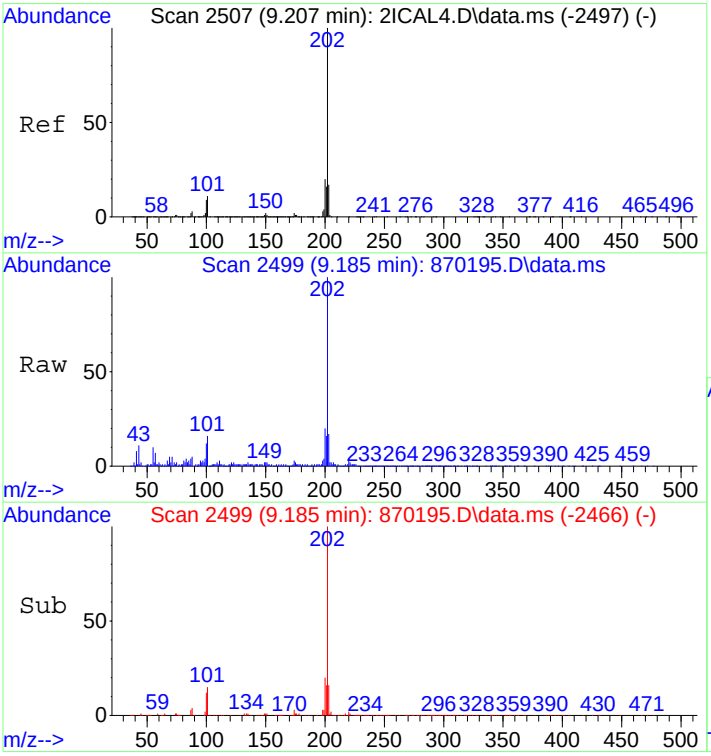


#76
Benzidine
Concen: Below ug/mL
RT: 9.105 min Scan# 2471
Delta R.T. -0.034 min
Lab File: 870195.D
Acq: 8 Dec 10 10:19 pm

Tgt Ion:184 Resp: 1950

Ion	Ratio	Lower	Upper
184	100		
185	10.0	0.0	43.8
183	0.0	0.0	41.8

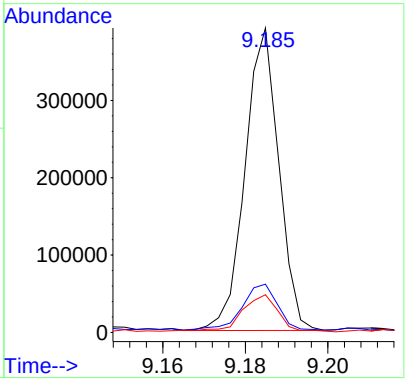


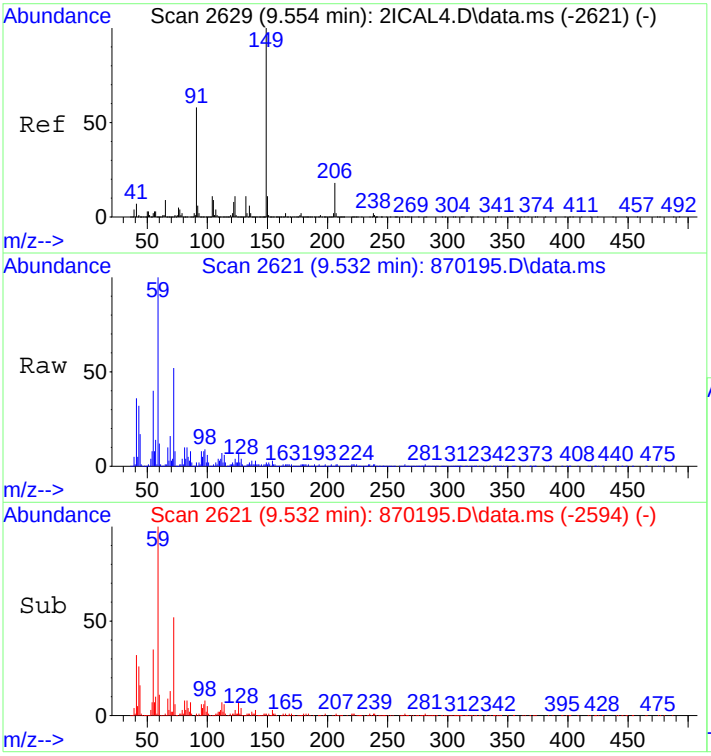


#77
Pyrene
Concen: 1.61 ug/mL
RT: 9.185 min Scan# 2499
Delta R.T. -0.023 min
Lab File: 870195.D
Acq: 8 Dec 10 10:19 pm

Tgt Ion:202 Resp: 222289

Ion	Ratio	Lower	Upper
202	100		
101	15.2	0.0	44.0
100	12.0	0.0	42.2

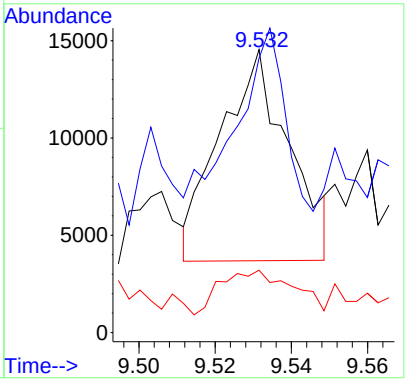


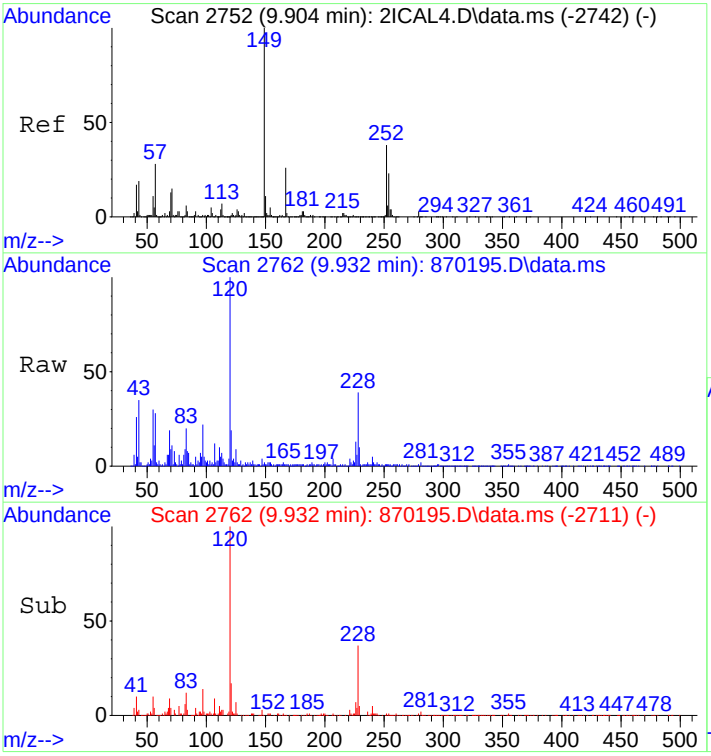


#79
Btylbzylphth
Concen: 0.20 ug/mL
RT: 9.532 min Scan# 2621
Delta R.T. -0.023 min
Lab File: 870195.D
Acq: 8 Dec 10 10:19 pm

Tgt Ion:149 Resp: 13565

Ion	Ratio	Lower	Upper
149	100		
91	78.8	40.5	100.5
206	22.9	0.0	48.9

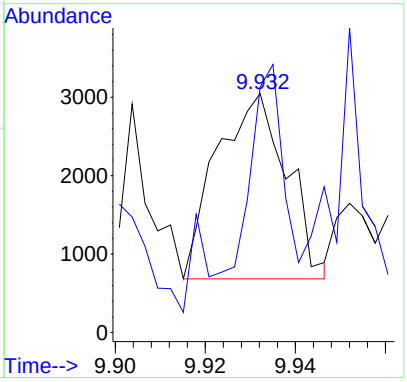


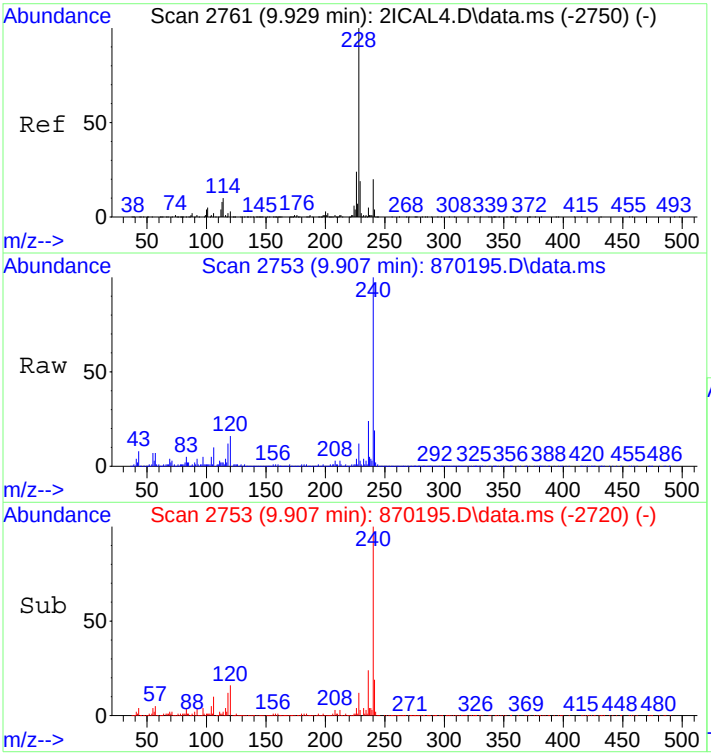


#80
33Diclbnzidin
Concen: Below ug/mL
RT: 9.932 min Scan# 2762
Delta R.T. 0.029 min
Lab File: 870195.D
Acq: 8 Dec 10 10:19 pm

Tgt Ion:252 Resp: 2557

Ion	Ratio	Lower	Upper
252	100		
254	121.7	31.7	91.7#

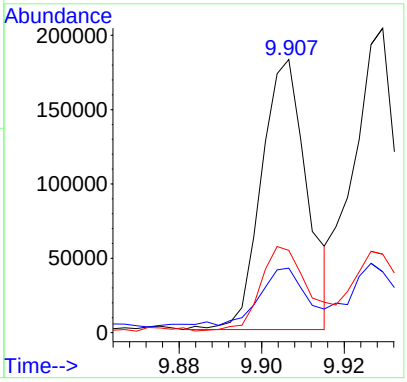


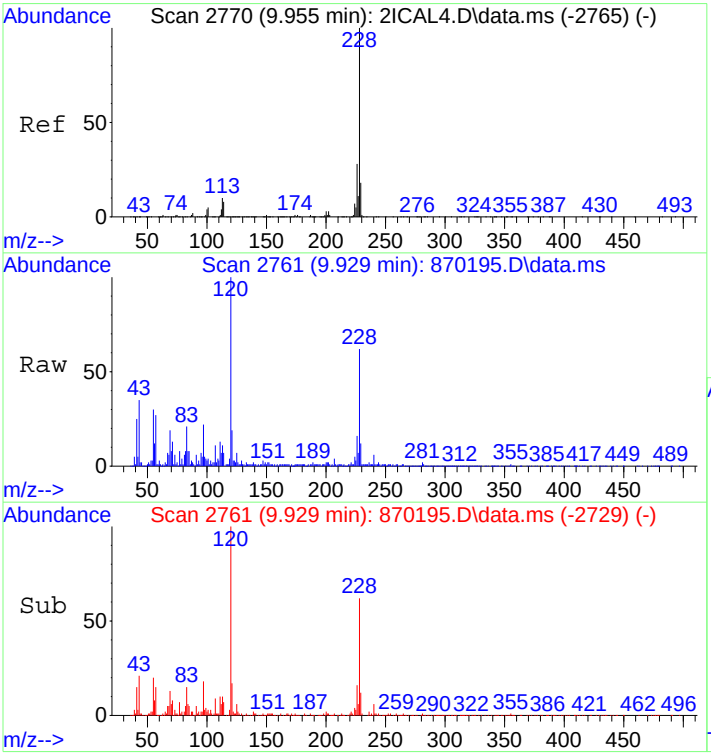


#81
B[a]anthracen
Concen: 1.08 ug/mL
RT: 9.907 min Scan# 2753
Delta R.T. -0.023 min
Lab File: 870195.D
Acq: 8 Dec 10 10:19 pm

Tgt Ion:228 Resp: 139598

Ion	Ratio	Lower	Upper
228	100		
229	20.8	0.0	48.8
226	28.7	0.0	56.6

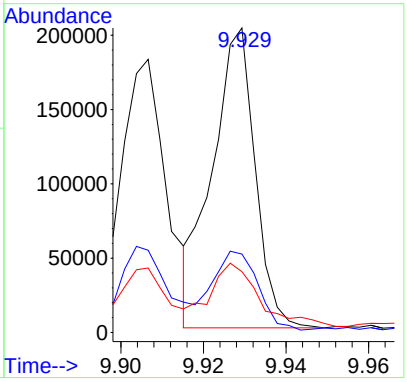


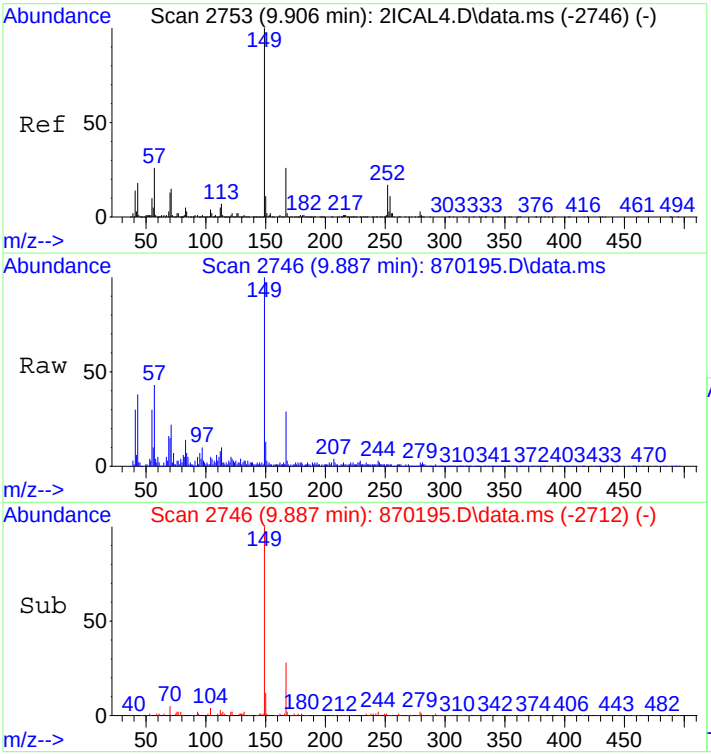


#82
Chrysene
Concen: 1.18 ug/mL
RT: 9.929 min Scan# 2761
Delta R.T. -0.025 min
Lab File: 870195.D
Acq: 8 Dec 10 10:19 pm

Tgt Ion:228 Resp: 146152

Ion	Ratio	Lower	Upper
228	100		
226	24.7	0.0	58.6
229	17.3	0.0	49.6

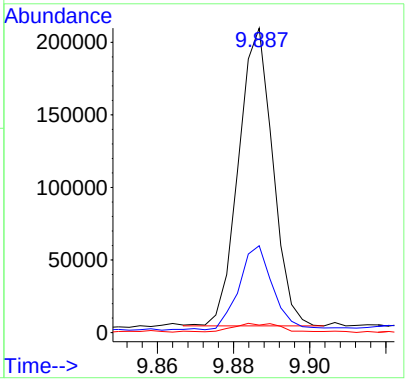


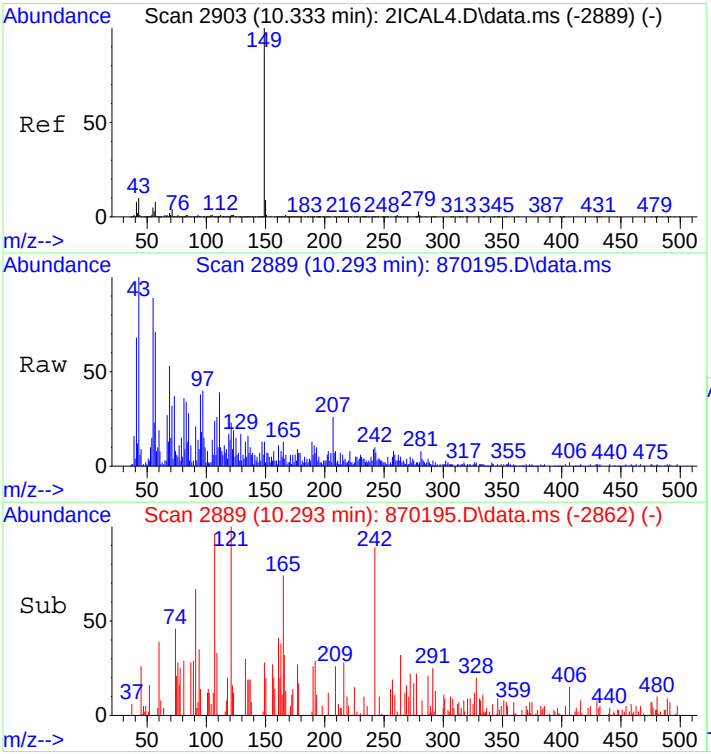


#83
bis2Ethlhxlph
Concen: 1.31 ug/mL
RT: 9.887 min Scan# 2746
Delta R.T. -0.020 min
Lab File: 870195.D
Acq: 8 Dec 10 10:19 pm

Tgt Ion:149 Resp: 128018

Ion	Ratio	Lower	Upper
149	100		
167	28.1	0.0	56.9
279	2.2	0.0	33.6

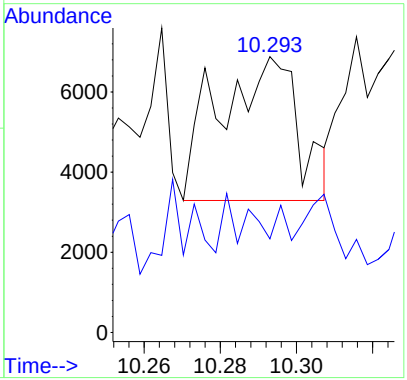


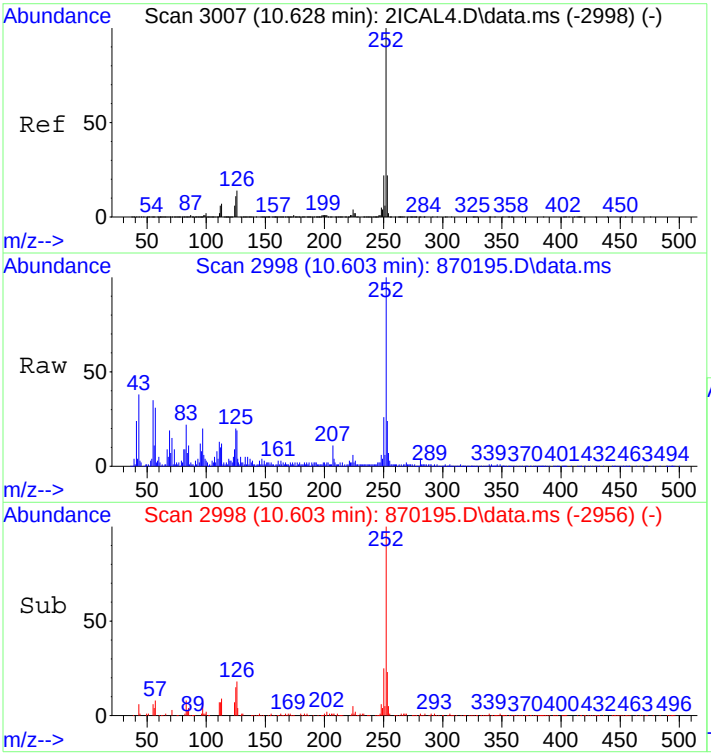


#84
Dinoctylphthl
Concen: 0.03 ug/mL
RT: 10.293 min Scan# 2889
Delta R.T. -0.040 min
Lab File: 870195.D
Acq: 8 Dec 10 10:19 pm

Tgt Ion:149 Resp: 5195

Ion	Ratio	Lower	Upper
149	100		
150	11.3	0.0	39.0

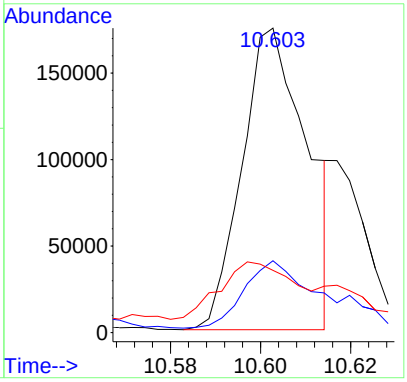


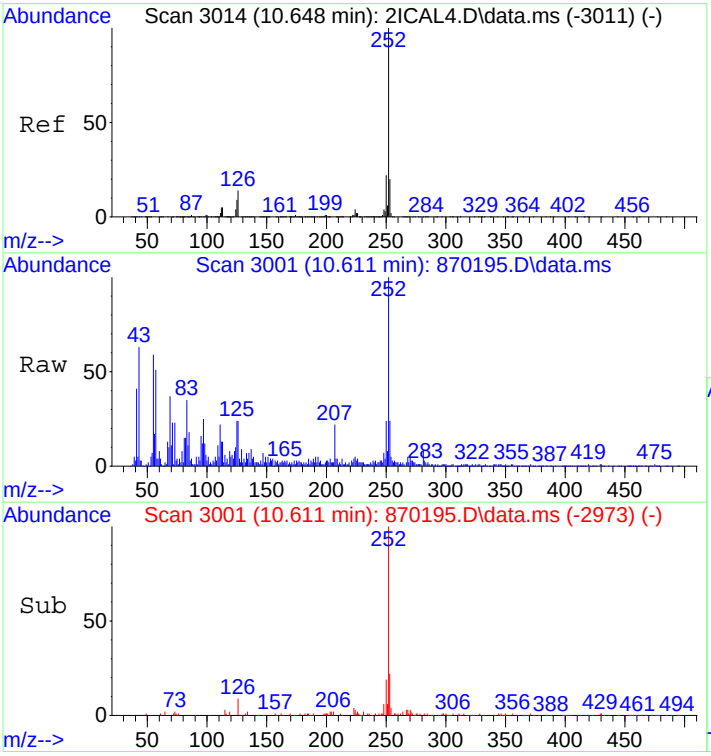


#86
B[b]fluoranth
Concen: 1.66 ug/mL
RT: 10.603 min Scan# 2998
Delta R.T. -0.025 min
Lab File: 870195.D
Acq: 8 Dec 10 10:19 pm

Tgt Ion:252 Resp: 175443

Ion	Ratio	Lower	Upper
252	100		
253	22.3	0.0	50.8
125	15.6	0.0	41.9

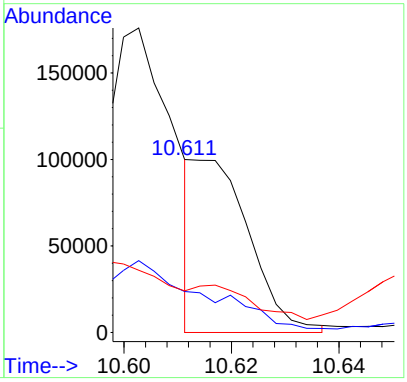


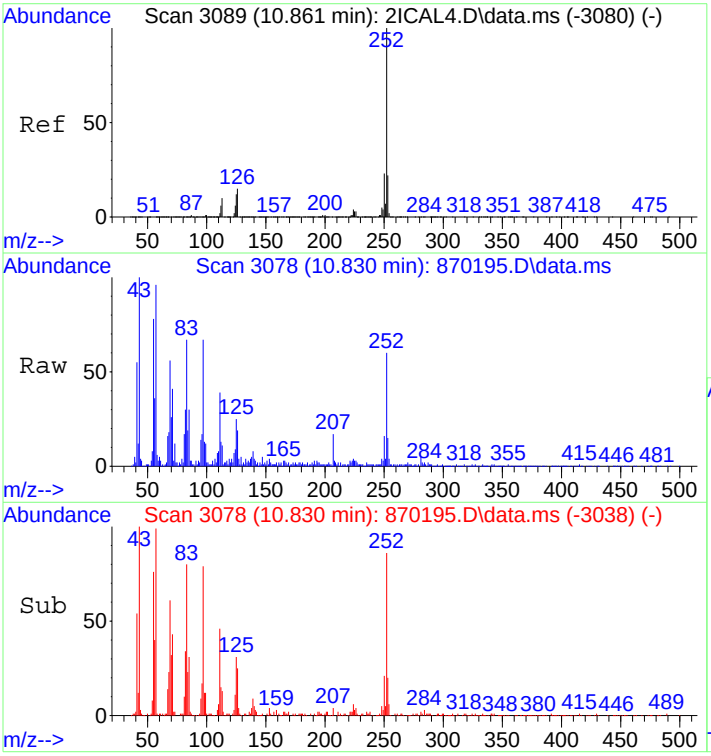


#87
B[k]fluoranth
Concen: 0.72 ug/mL m
RT: 10.611 min Scan# 3001
Delta R.T. -0.037 min
Lab File: 870195.D
Acq: 8 Dec 10 10:19 pm

Tgt Ion:252 Resp: 71606

Ion	Ratio	Lower	Upper
252	100		
253	23.7	0.0	50.8
125	24.0	0.0	41.3

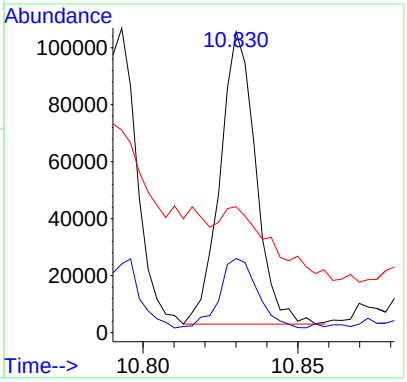


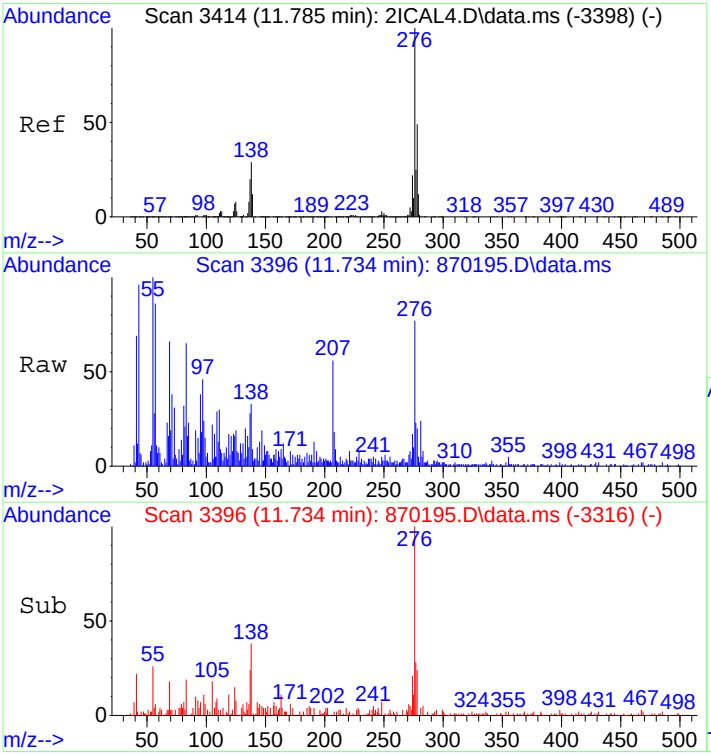


#88
Benz[a]pyrene
Concen: 0.85 ug/mL
RT: 10.830 min Scan# 3078
Delta R.T. -0.031 min
Lab File: 870195.D
Acq: 8 Dec 10 10:19 pm

Tgt Ion:252 Resp: 82289

Ion	Ratio	Lower	Upper
252	100		
253	23.3	0.0	50.4
125	21.6	0.0	43.2

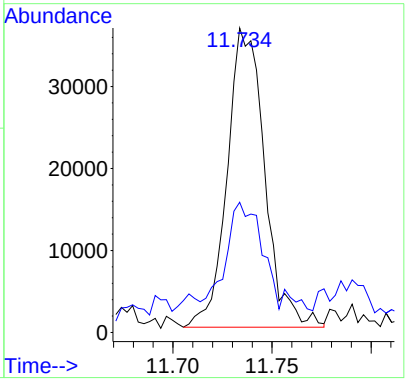


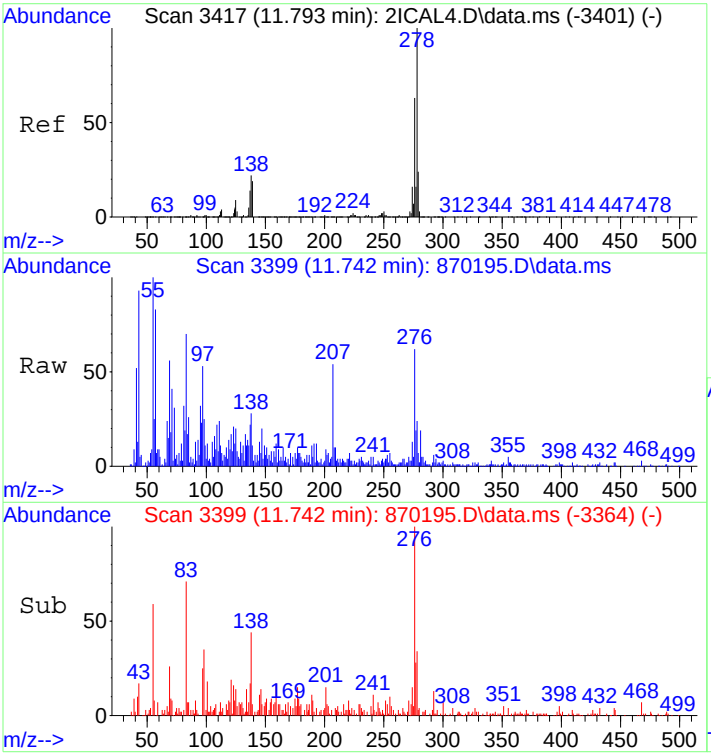


#89
Indeno-pyrene
Concen: 0.49 ug/mL
RT: 11.734 min Scan# 3396
Delta R.T. -0.051 min
Lab File: 870195.D
Acq: 8 Dec 10 10:19 pm

Tgt Ion:276 Resp: 47902

Ion	Ratio	Lower	Upper
276	100		
138	32.9	2.2	62.2

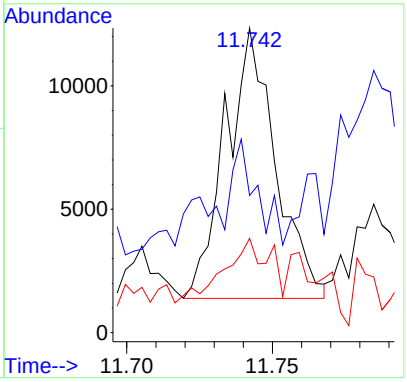


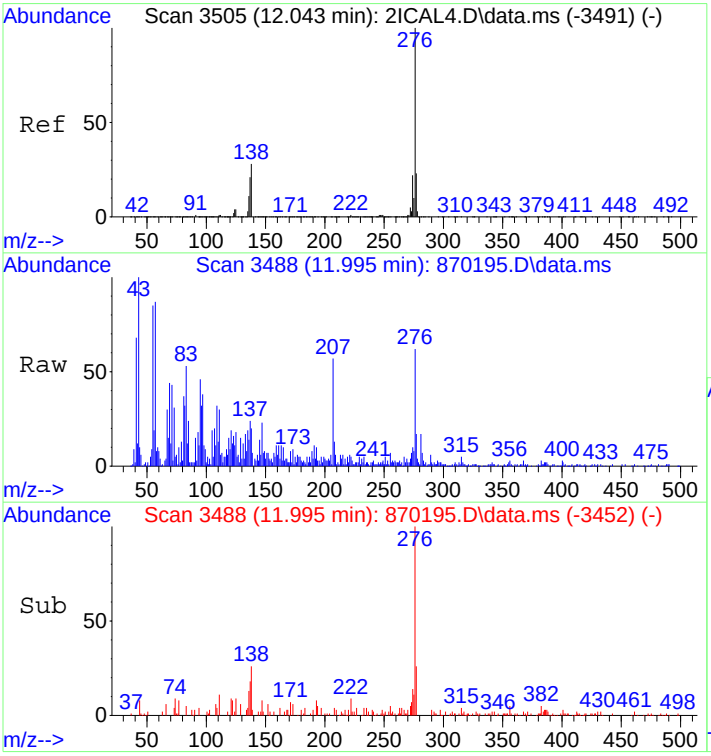


#90
Dib[ah]anthr
Concen: 0.17 ug/mL
RT: 11.742 min Scan# 3399
Delta R.T. -0.051 min
Lab File: 870195.D
Acq: 8 Dec 10 10:19 pm

Tgt Ion:278 Resp: 13141

Ion	Ratio	Lower	Upper
278	100		
139	14.3	0.0	50.7
279	21.2	0.0	54.3

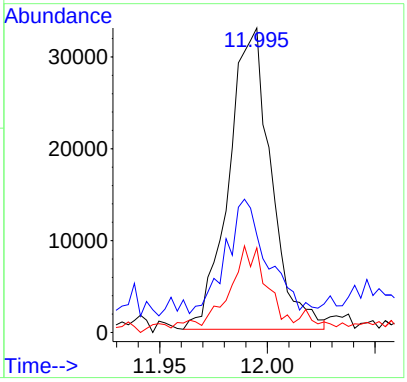


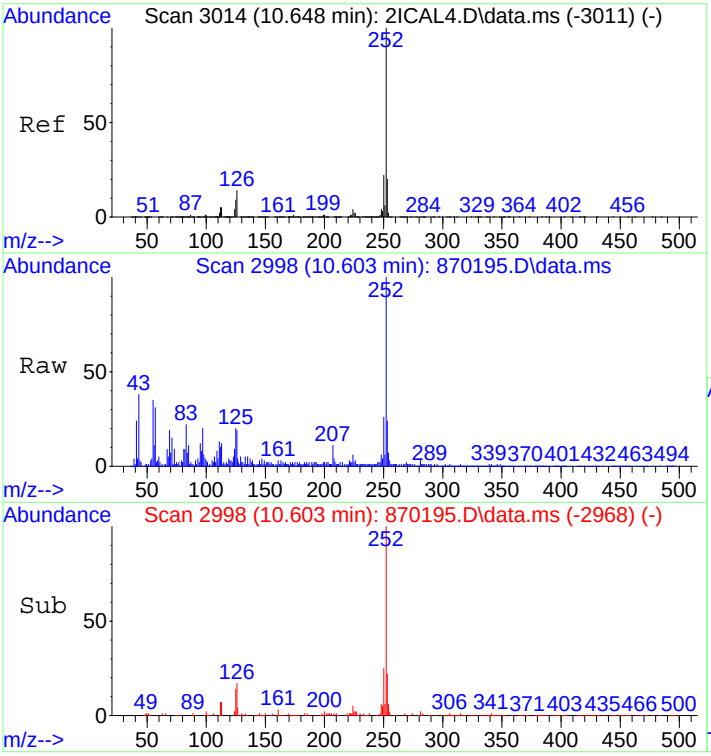


#91
B[ghi]perylen
Concen: 0.55 ug/mL
RT: 11.995 min Scan# 3488
Delta R.T. -0.048 min
Lab File: 870195.D
Acq: 8 Dec 10 10:19 pm

Tgt Ion:276 Resp: 44906

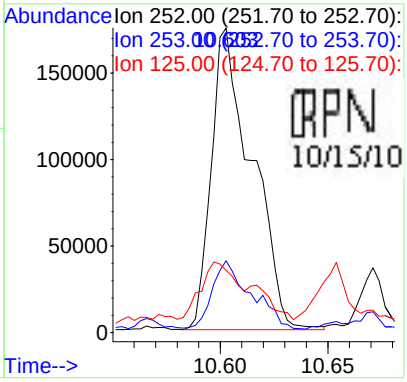
Ion	Ratio	Lower	Upper
276	100		
138	23.0	0.0	57.5
277	25.0	0.0	53.1





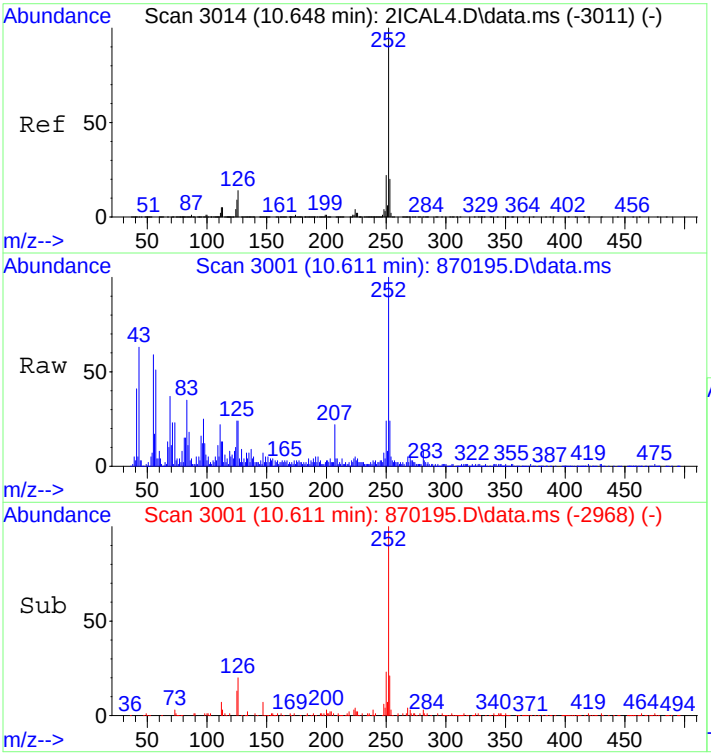
#87
B[k]fluoranth
Concen: 2.30 ug/mL
RT: 10.603 min Scan# 2998
Delta R.T. -0.031 min
Lab File: 870195.D
Acq: 8 Dec 10 10:19 pm

Tgt Ion:252	Resp:	229074	
Ion	Ratio	Lower	Upper
252	100		
253	22.3	0.0	50.8
125	15.6	0.0	41.3



JJY
01/05/11

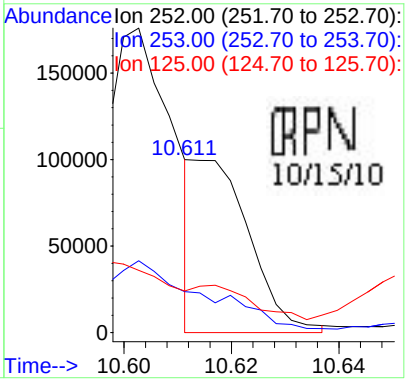
Before Manual Integration



#87
B[k]fluoranth
Concen: 0.72 ug/mL m
RT: 10.611 min Scan# 3001
Delta R.T. -0.023 min
Lab File: 870195.D
Acq: 8 Dec 2010 22:19

Tgt Ion:252 Resp: 71606

Ion	Ratio	Lower	Upper
252	100		
253	23.7	0.0	50.8
125	24.0	0.0	41.3



JJY
01/05/11

After Manual Integration

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\870201.D Vial: 4
Acq On : 2 Dec 2010 19:45 Operator: RPN
Sample : 72180,870201,1 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 05 16:45:24 2010

RPN 12/05/10

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 14:33:20 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Manual Integration: Benzo(k)fluoranthene. Reason#3

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.425	152	509262	20.00	ug/mL	0.00
21) Naphthalened8	6.065	136	2305009	20.00	ug/mL	0.00
39) Acenaphthened10	7.568	164	1235818	20.00	ug/mL	0.00
63) Phenanthrd10	8.463	188	1852195	20.00	ug/mL	0.00
75) Chrysene-d12	9.935	240	1711956	20.00	ug/mL	0.00
85) Perylene-d12	10.904	264	1393987	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	3.184	112	989297	78.03	%REC	0.02
Spiked Amount 100.000	Range 20 - 110		Recovery = 78.03%			
7) SURRPhenol-d5	3.996	99	1226008	80.51	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 80.51%			
22) SURRNitrbenzened5	5.119	82	420025	75.51	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 75.51%			
44) SURR2Flbiphenyl	7.085	172	1255116	77.62	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 77.62%			
62) SURR246Tribrphenl	8.085	330	319766	85.58	%REC	-0.01
Spiked Amount 100.000	Range 40 - 125		Recovery = 85.58%			
78) SURRTerphenyl-d14	9.273	244	1008299	81.09	ug/mL	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 81.09%			
Target Compounds						Qvalue
2) Ntrsdimeth	2.417	74	675	0.0373	ug/mL#	1
5) Aniline	4.096	93	1753	0.0357	ug/mL#	1
6) bis2Clethletr	4.096	93	1753	0.0575	ug/mL	47
8) Phenol	4.013	94	9655	0.2572	ug/mL	79
12) 12Diclbenz	4.624	146	5421	0.1424	ug/mL	90
13) Benzyl alcoho	4.624	108	328	0.9179	ug/mL#	4
14) bis2clispreth	4.749	45	2287	0.0394	ug/mL	63
15) 2Methylphenol	4.769	108	894	0.0311	ug/mL	96
16) Ntrspyrrol	4.886	100	1119	0.0738	ug/mL#	1
17) Acetophenone	4.920	105	4466	0.1043	ug/mL#	77
18) Hexaclethane	5.031	117	279	0.0208	ug/mL#	10
19) N-Ntrsdinprop	4.883	70	1506	0.0786	ug/mL	89
24) Isophorone	5.494	82	2045	0.0326	ug/mL	76
26) 24Dimthpheno	5.798	107	4906	0.1524	ug/mL#	71
27) bis2clethoxym	5.809	93	2328	0.0538	ug/mL#	47
30) Benzoic acid	5.778	105	164247	9.4384	ug/mL	85
31) Naphthalene	6.088	128	33613	0.2857	ug/mL	98
32) 4-Cl-aniline	6.090	127	5177	0.1173	ug/mL#	46
36) 4Cl3methylphe	6.664	107	782	0.0272	ug/mL	81
37) 2Methylnaphth	6.772	141	22126	0.3369	ug/mL	90
38) 1Methylnaphth	6.855	141	19349	0.2839	ug/mL	81
43) 245Triclpheno	7.042	196	693	0.0301	ug/mL	98
45) 2Clnaphthalen	7.170	162	1606	0.0225	ug/mL	76
46) 2Nitroaniline	7.199	65	9349	0.5608	ug/mL#	36
47) Acnaphthylene	7.471	152	10910	0.0892	ug/mL	82
48) Dimethylphtha	7.386	163	4196	0.0500	ug/mL	91
49) 26Dinitrotolu	7.429	165	2325	0.1281	ug/mL#	49
50) Acenaphthene	7.591	153	11860	0.1542	ug/mL	96
51) 3Nitroaniline	7.557	138	32357	1.6660	ug/mL#	5
52) 24Dinitphenol	7.616	184	535	2.4200	ug/mL#	1
53) Dibenzofuran	7.707	168	18919	0.1891	ug/mL	84
55) 4-Nitrophenol	7.631	109	5526	0.8879	ug/mL#	1
58) Fluorene	7.932	166	15708	0.1947	ug/mL	85
60) Diethylphthal	7.852	149	44074	0.5205	ug/mL	95

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\870201.D Vial: 4
Acq On : 2 Dec 2010 19:45 Operator: RPN
Sample : 72180,870201,1 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 05 16:45:24 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 14:33:20 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

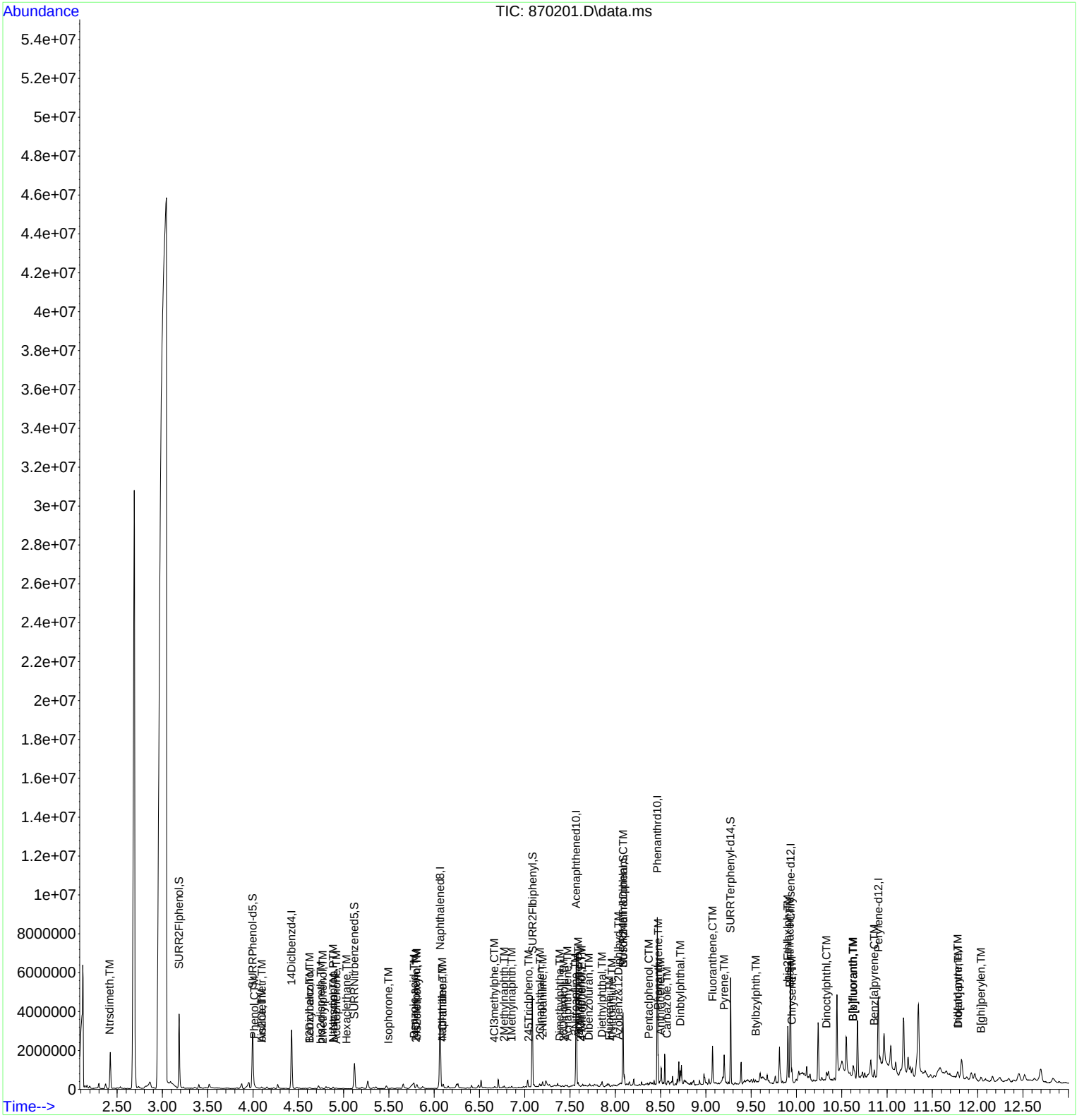
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
61) 4Nitroaniline	7.960	138	503	0.0264 ug/mL#	65
65) Ntrsdiphlam&Diphlam	8.085	169	10594	0.1926 ug/mL#	50
66) Azobenz&12Diphlhyd	8.034	182	10881	0.5235 ug/mL#	1
69) Pentaclphenol	8.369	266	1244	2.5253 ug/mL#	50
70) Phenanthrene	8.474	178	237631	2.4196 ug/mL	99
71) Anthracene	8.500	178	35955	0.3611 ug/mL	95
72) Carbazole	8.571	167	25875	0.3068 ug/mL	99
73) Dinbtylphthal	8.719	149	133879	1.1755 ug/mL	97
74) Fluoranthene	9.074	202	459443	4.6358 ug/mL	98
76) Benzidine	9.273	184	11192	Below Cal	90
77) Pyrene	9.202	202	359842	3.5247 ug/mL	98
79) Btylbzylphth	9.551	149	4962	0.1000 ug/mL	91
80) 33Diclbnzidin	9.958	252	2168	Below Cal #	33
81) B[a]anthracen	9.926	228	172887	1.8159 ug/mL	98
82) Chrysene	9.949	228	182668	2.0025 ug/mL	98
83) bis2Ethlhxlph	9.904	149	626986	8.6907 ug/mL	99
84) Dinoctylphthl	10.330	149	6886	0.0537 ug/mL	84
86) B[b]fluoranth	10.625	252	239192	2.9130 ug/mL	98
87) B[k]fluoranth	10.625	252	313742	4.0451 ug/mL	98
88) Benz[a]pyrene	10.858	252	128885	1.7197 ug/mL	98
89) Indeno-pyrene	11.779	276	87634	1.1516 ug/mL	83
90) Dib[ah]anthr	11.785	278	20623	0.3340 ug/mL	93
91) B[ghi]perylen	12.038	276	72052	1.1399 ug/mL	92

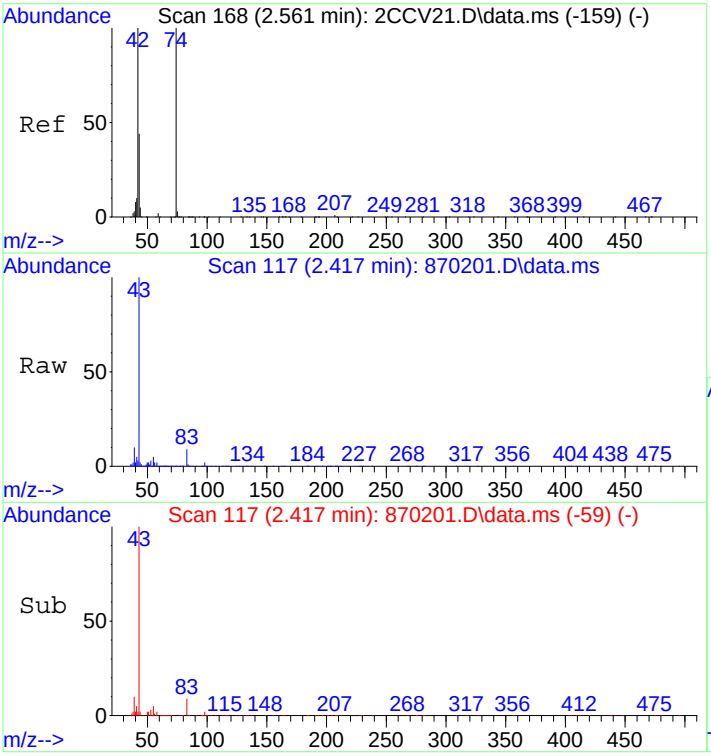
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\870201.D Vial: 4
Acq On : 2 Dec 2010 19:45 Operator: RPN
Sample : 72180,870201,1 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 05 16:45:24 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 14:33:20 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

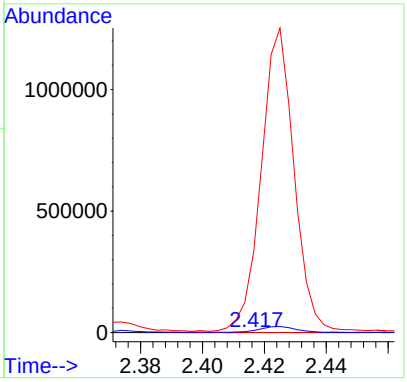


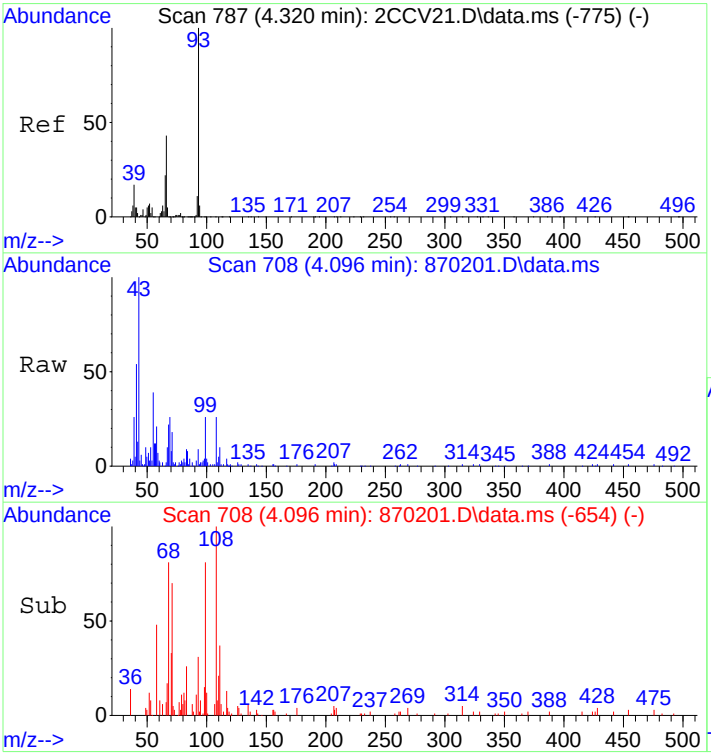


#2
Ntrsdimeth
Concen: 0.04 ug/mL
RT: 2.417 min Scan# 117
Delta R.T. 0.046 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion: 74 Resp: 675

Ion	Ratio	Lower	Upper
74	100		
42	847.8	82.4	142.4#
43	36446.2	17.7	77.7#

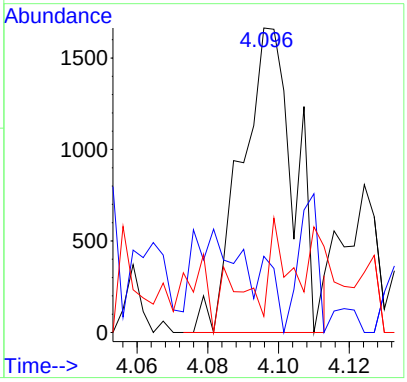


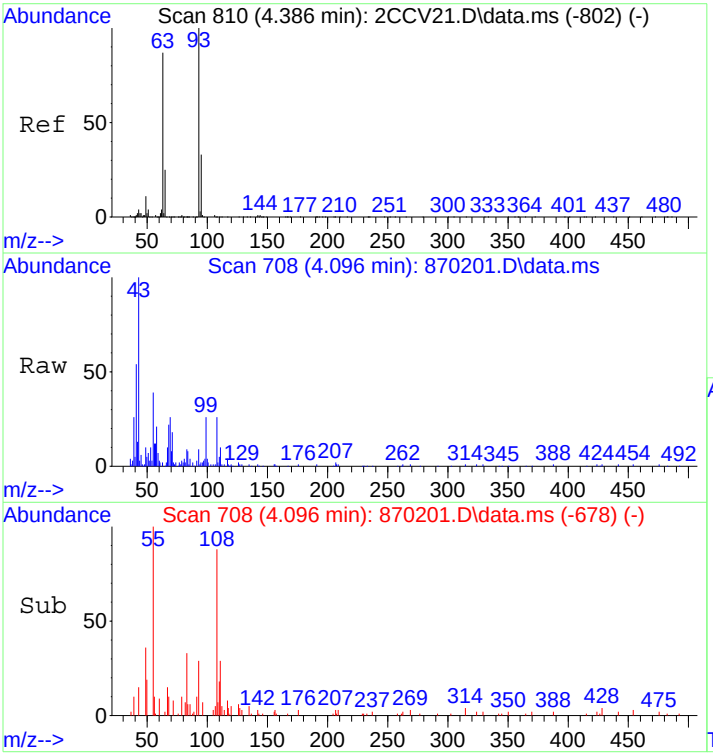


#5
Aniline
Concen: 0.04 ug/mL
RT: 4.096 min Scan# 708
Delta R.T. 0.037 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion: 93 Resp: 1753

Ion	Ratio	Lower	Upper
93	100		
66	2305.0	10.4	70.4#
65	508.6	0.0	51.6#

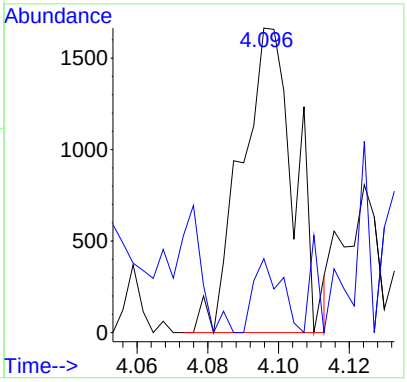


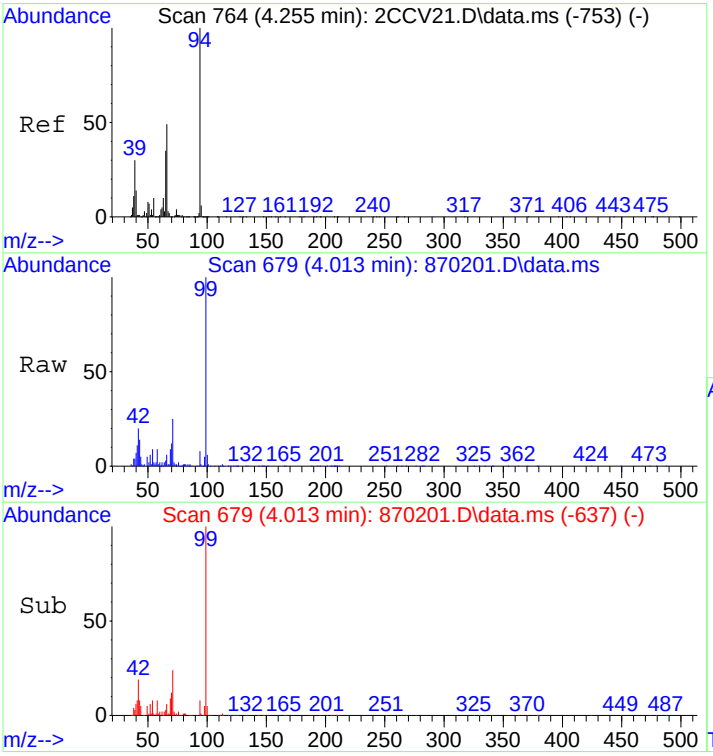


#6
bis2Clethletr
Concen: 0.06 ug/mL
RT: 4.096 min Scan# 708
Delta R.T. -0.031 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion: 93 Resp: 1753

Ion	Ratio	Lower	Upper
93	100		
95	2.8	2.4	62.4

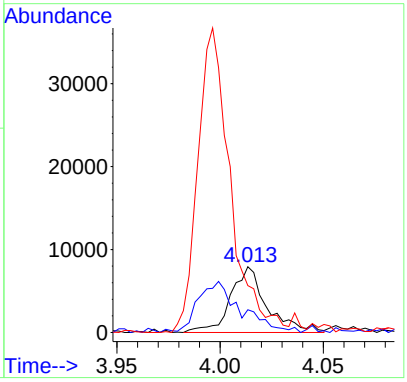


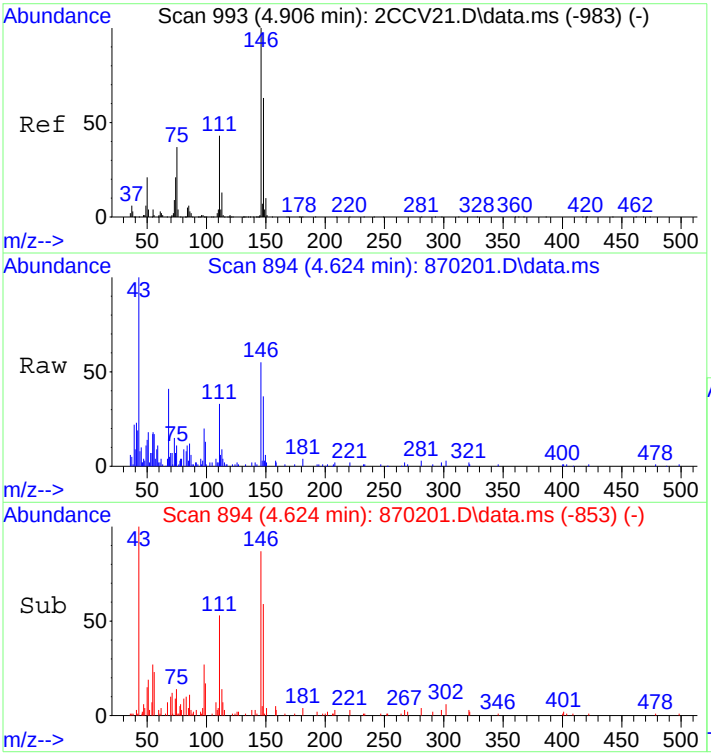


#8
Phenol
Concen: 0.26 ug/mL
RT: 4.013 min Scan# 679
Delta R.T. 0.006 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion: 94 Resp: 9655

Ion	Ratio	Lower	Upper
94	100		
65	32.3	1.0	61.0
66	59.8	8.1	68.1

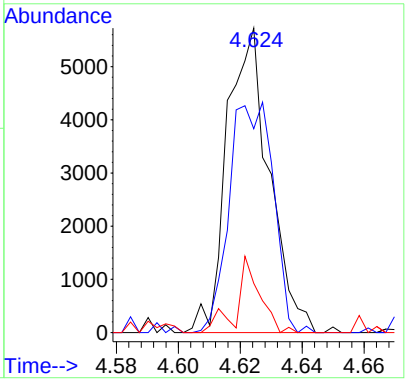


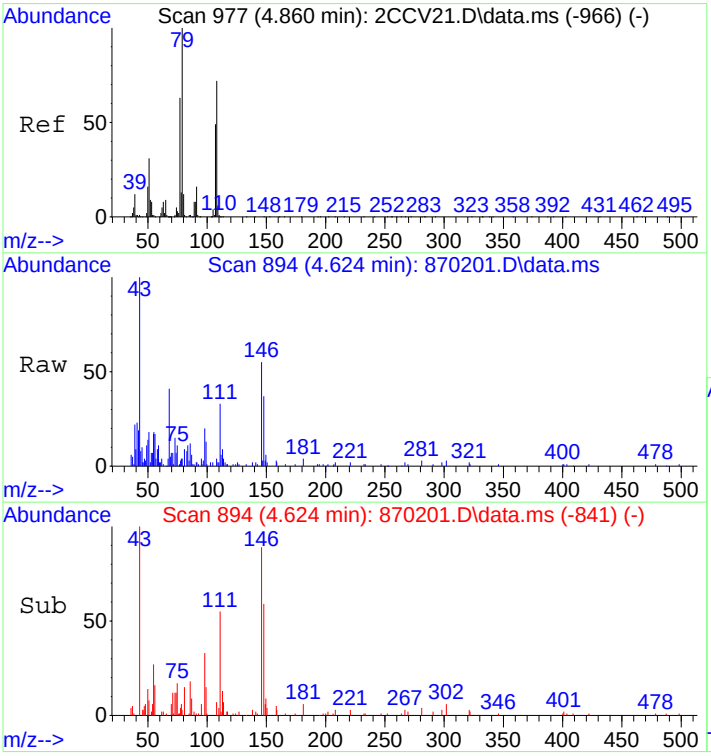


#12
12Diclbenz
Concen: 0.14 ug/mL
RT: 4.624 min Scan# 894
Delta R.T. 0.000 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:146 Resp: 5421

Ion	Ratio	Lower	Upper
146	100		
148	66.9	29.2	89.2
113	16.2	0.0	42.9

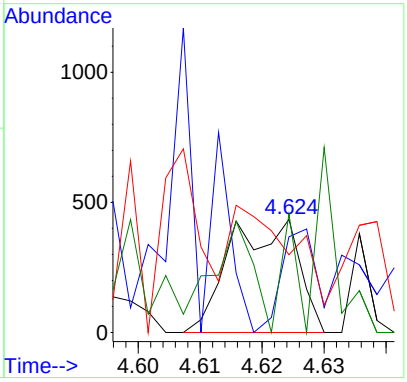


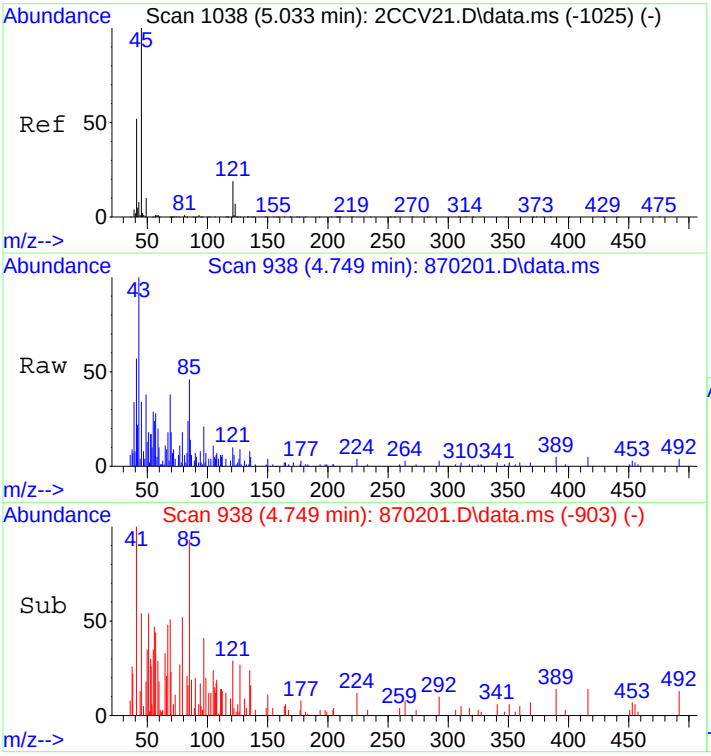


#13
Benzyl alcoho
Concen: 0.92 ug/mL
RT: 4.624 min Scan# 894
Delta R.T. 0.034 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:108 Resp: 328

Ion	Ratio	Lower	Upper
108	100		
79	0.0	104.2	164.2#
77	33.3	55.1	115.1#
91	88.5	0.0	50.3#

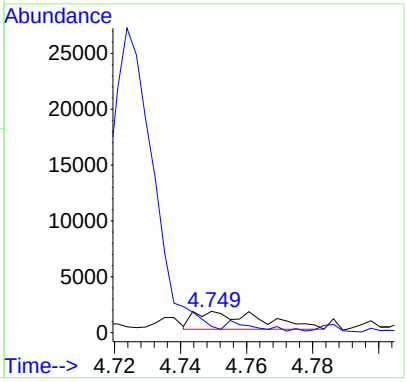


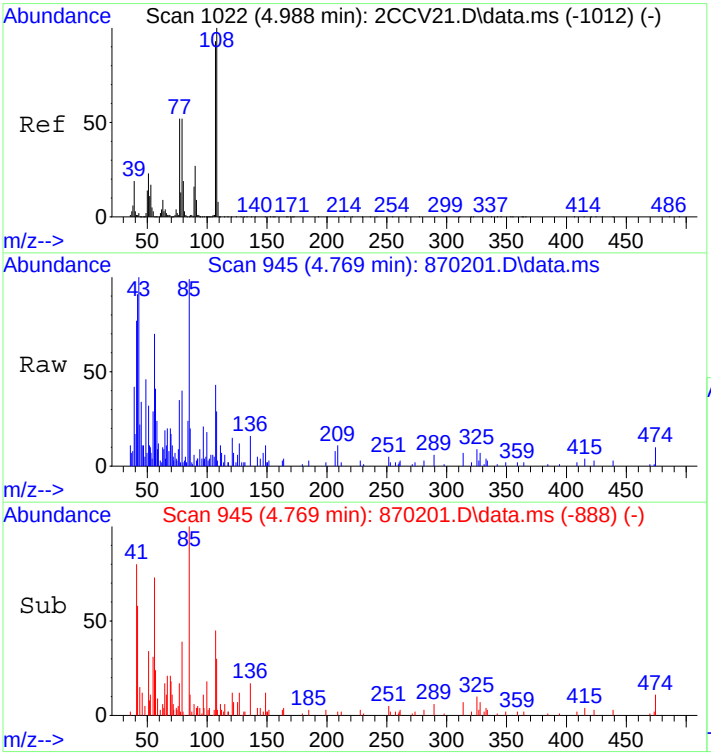


#14
bis2clispreth
Concen: 0.04 ug/mL
RT: 4.749 min Scan# 938
Delta R.T. -0.017 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion: 45 Resp: 2287

Ion	Ratio	Lower	Upper
45	100		
121	0.0	0.0	45.3

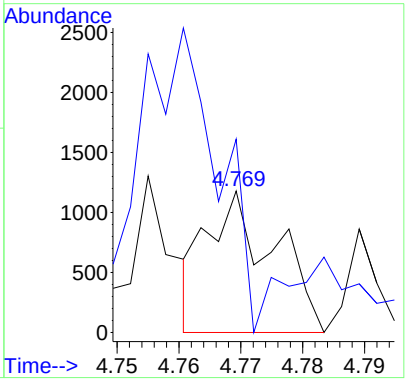


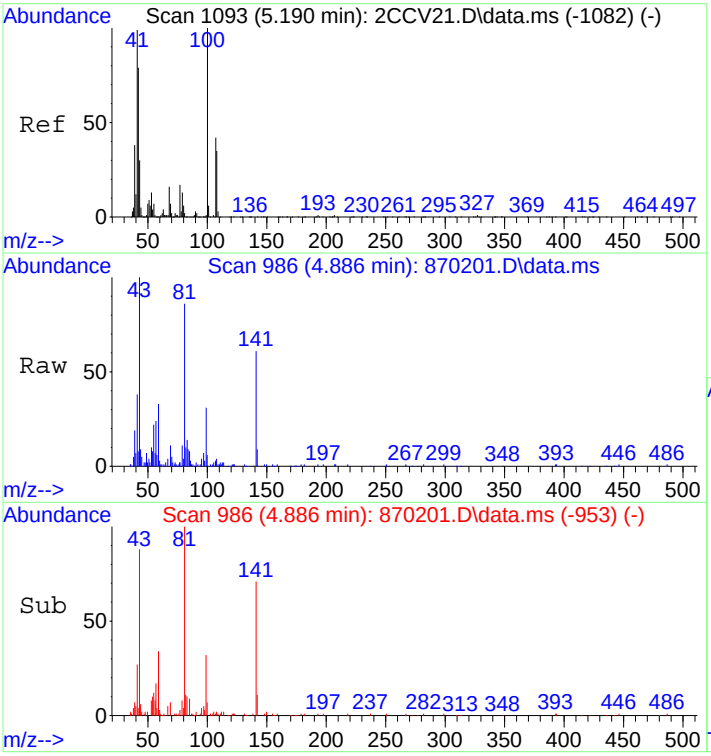


#15
2Methylphenol
Concen: 0.03 ug/mL
RT: 4.769 min Scan# 945
Delta R.T. 0.046 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:108 Resp: 894

Ion	Ratio	Lower	Upper
108	100		
107	83.4	57.3	117.3

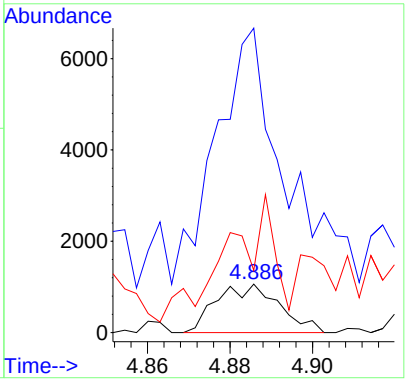


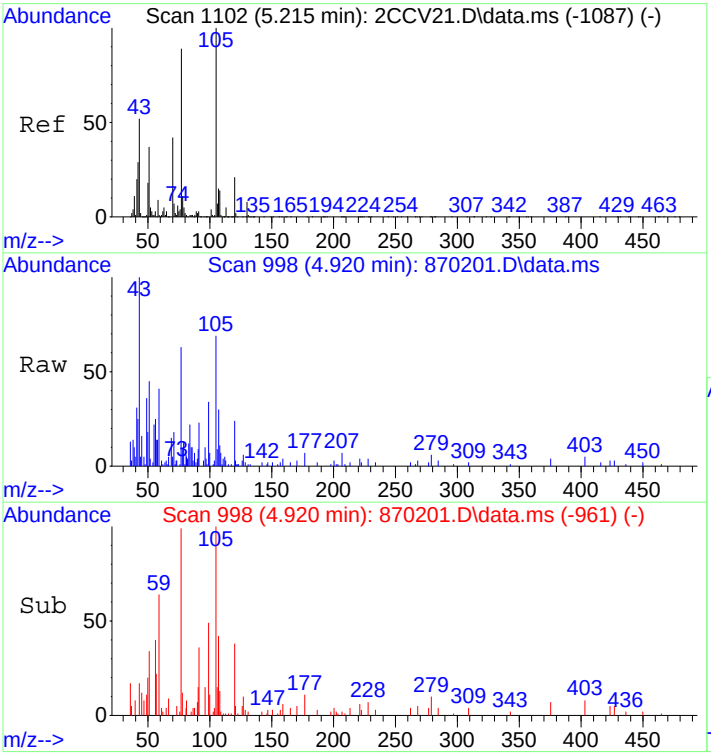


#16
Ntrspyrrol
Concen: 0.07 ug/mL
RT: 4.886 min Scan# 986
Delta R.T. -0.023 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:100 Resp: 1119

Ion	Ratio	Lower	Upper
100	100		
41	414.4	76.4	136.4#
42	37.3	46.7	106.7#

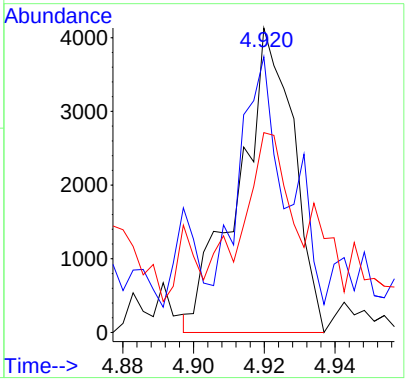


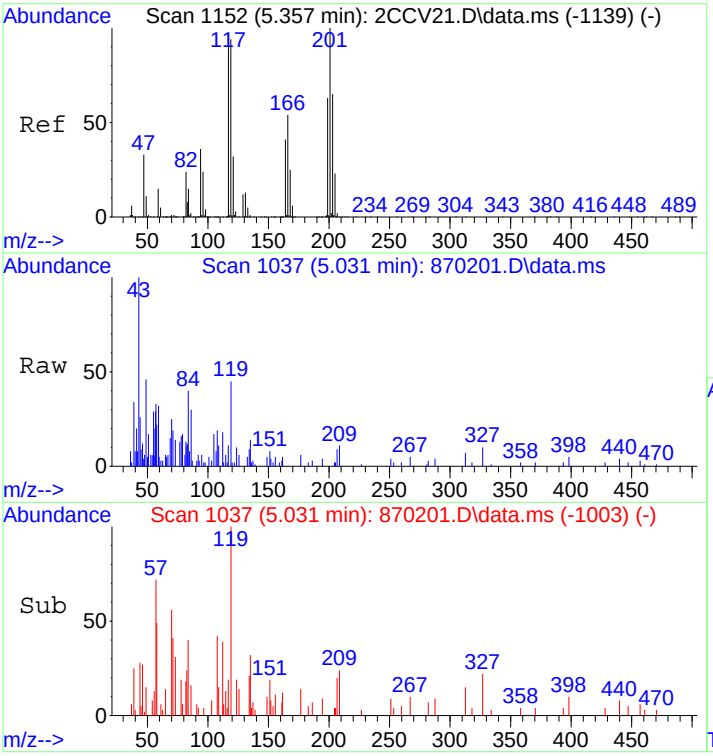


#17
Acetophenone
Concen: 0.10 ug/mL
RT: 4.920 min Scan# 998
Delta R.T. -0.011 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:105 Resp: 4466

Ion	Ratio	Lower	Upper
105	100		
77	68.3	72.2	132.2#
51	50.0	18.8	78.8

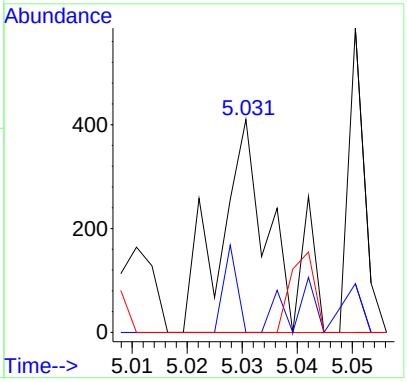


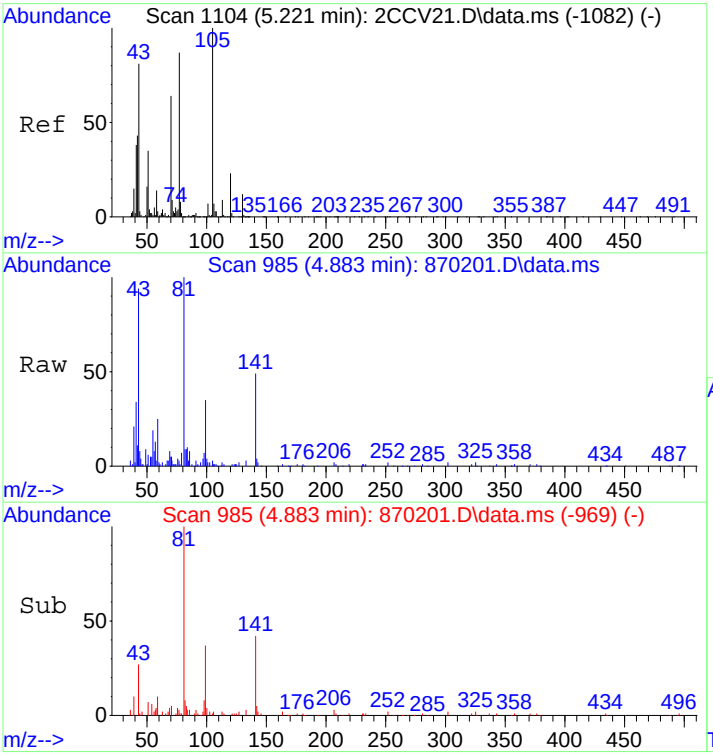


#18
Hexaclethane
Concen: 0.02 ug/mL
RT: 5.031 min Scan# 1037
Delta R.T. -0.020 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:117 Resp: 279

Ion	Ratio	Lower	Upper
117	100		
201	0.0	64.1	124.1#
199	0.0	28.3	88.3#

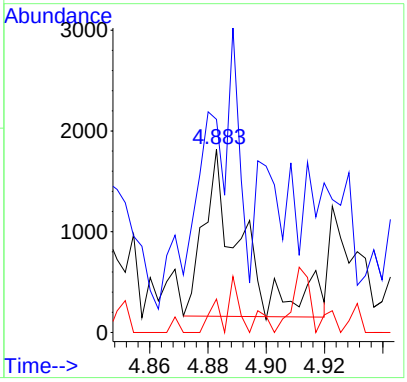


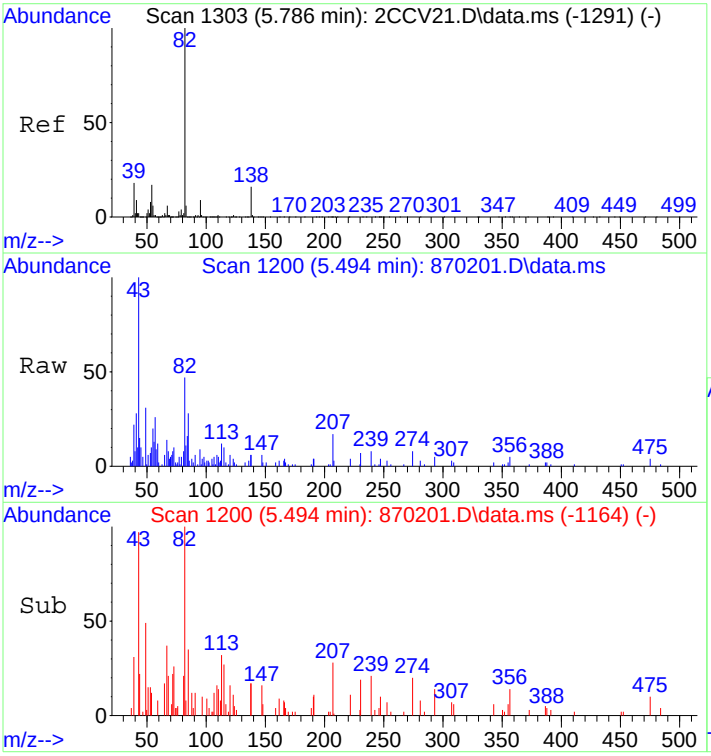


#19
N-Ntrsdinprop
Concen: 0.08 ug/mL
RT: 4.883 min Scan# 985
Delta R.T. -0.054 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion: 70 Resp: 1506

Ion	Ratio	Lower	Upper
70	100		
42	93.3	54.3	114.3
113	20.0	0.0	43.5

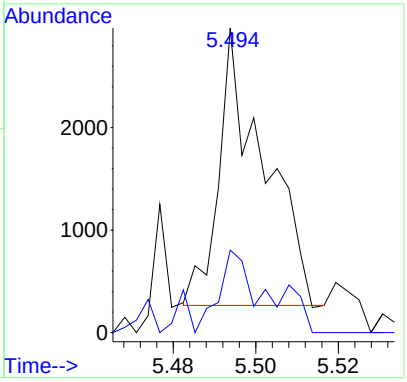


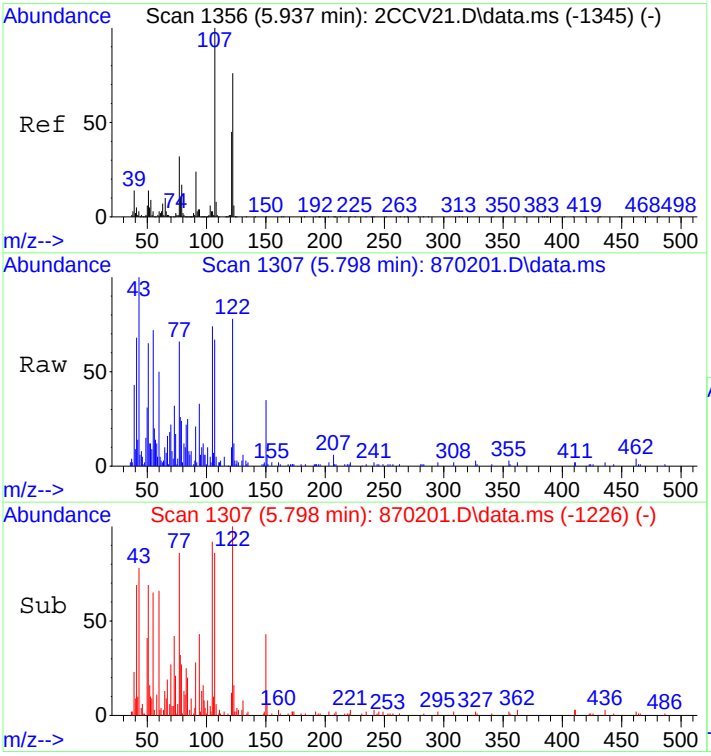


#24
Isophorone
Concen: 0.03 ug/mL
RT: 5.494 min Scan# 1200
Delta R.T. -0.017 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion: 82 Resp: 2045

Ion	Ratio	Lower	Upper
82	100		
138	29.7	0.0	48.8

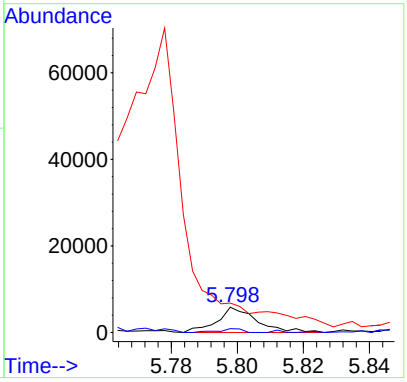


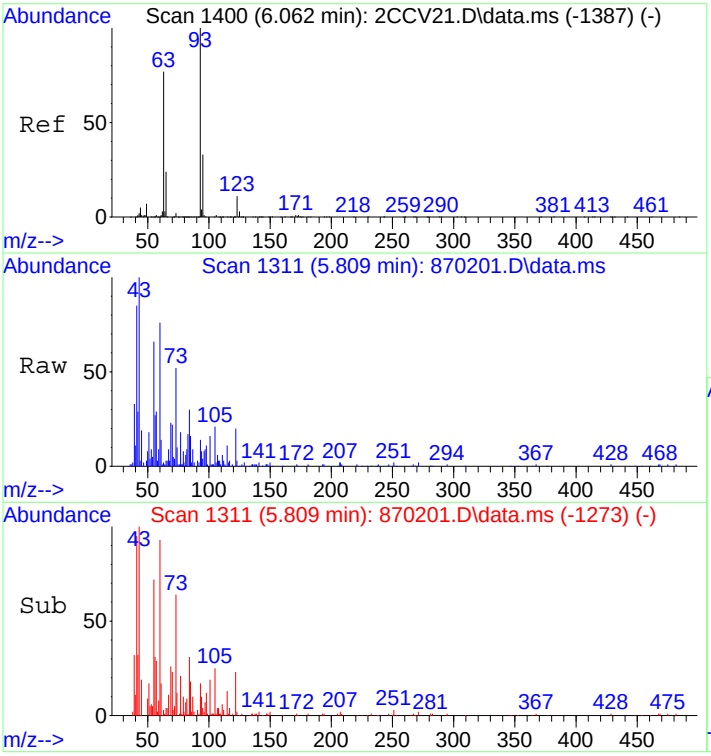


#26
24Dimthpheno
Concen: 0.15 ug/mL
RT: 5.798 min Scan# 1307
Delta R.T. 0.114 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:107 Resp: 4906

Ion	Ratio	Lower	Upper
107	100		
121	14.9	22.2	82.2#
122	73.5	56.3	116.3

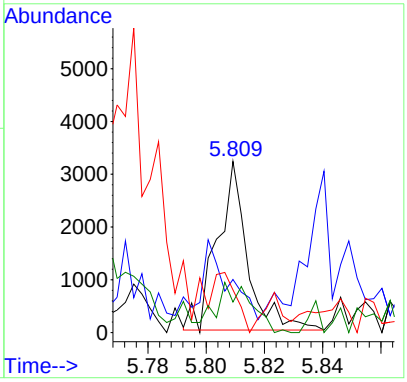


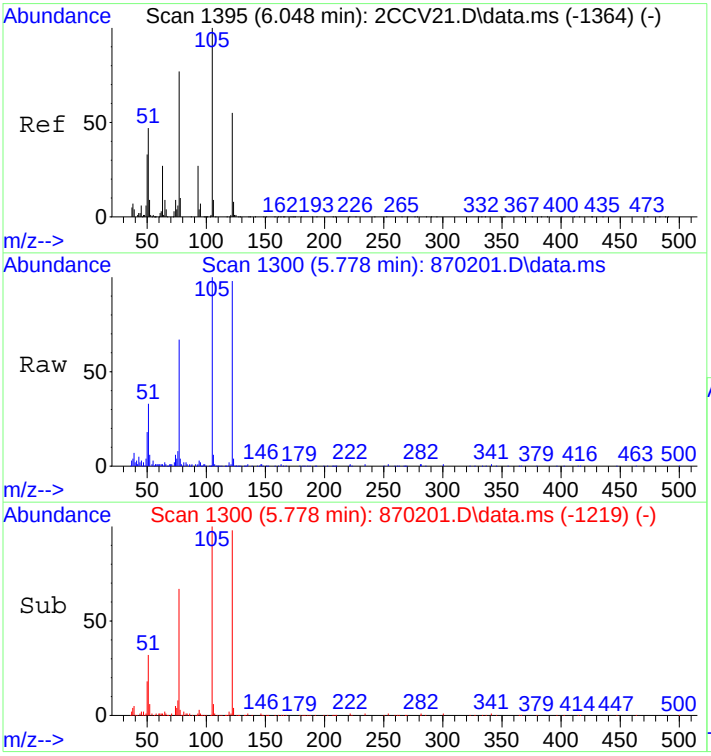


#27
bis2clethoxym
Concen: 0.05 ug/mL
RT: 5.809 min Scan# 1311
Delta R.T. -0.008 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion: 93 Resp: 2328

Ion	Ratio	Lower	Upper
93	100		
95	10.3	1.9	61.9
123	12.9	0.0	42.6
63	18.1	46.9	106.9#

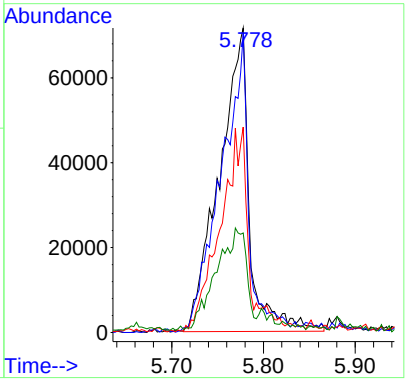


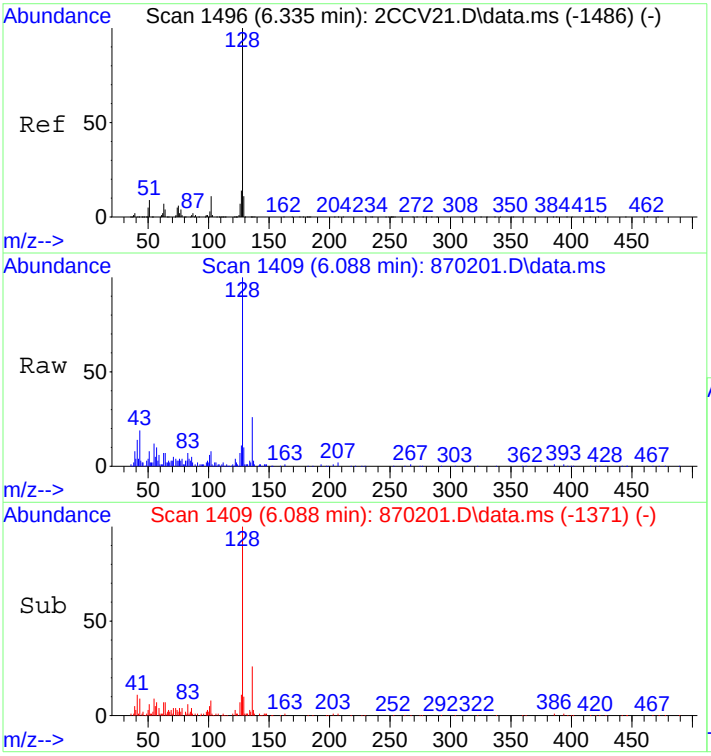


#30
Benzoic acid
Concen: 9.44 ug/mL
RT: 5.778 min Scan# 1300
Delta R.T. -0.043 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:105 Resp: 164247

Ion	Ratio	Lower	Upper
105	100		
122	96.9	54.1	114.1
77	67.1	45.9	105.9
51	31.8	17.6	77.6

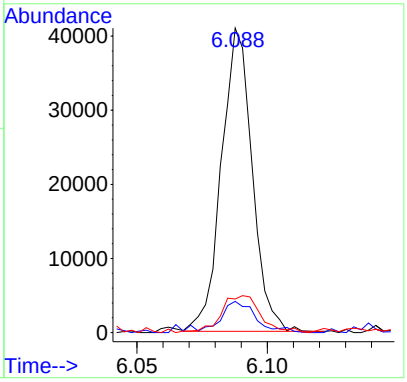


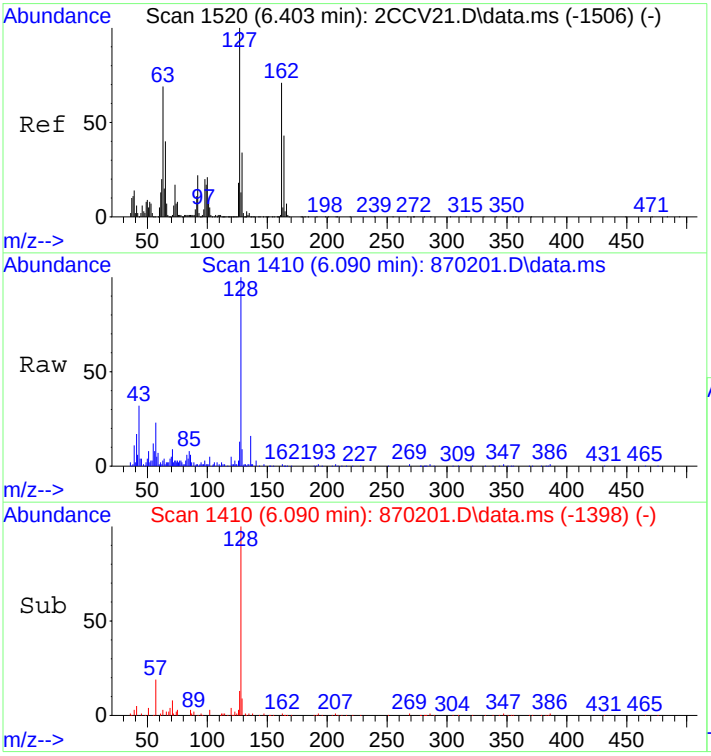


#31
Naphthalene
Concen: 0.29 ug/mL
RT: 6.088 min Scan# 1409
Delta R.T. -0.008 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:128 Resp: 33613

Ion	Ratio	Lower	Upper
128	100		
129	10.3	0.0	40.3
127	10.5	0.0	41.9

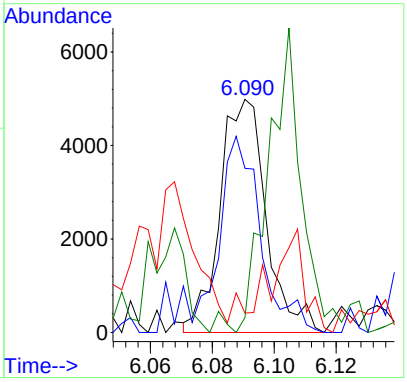


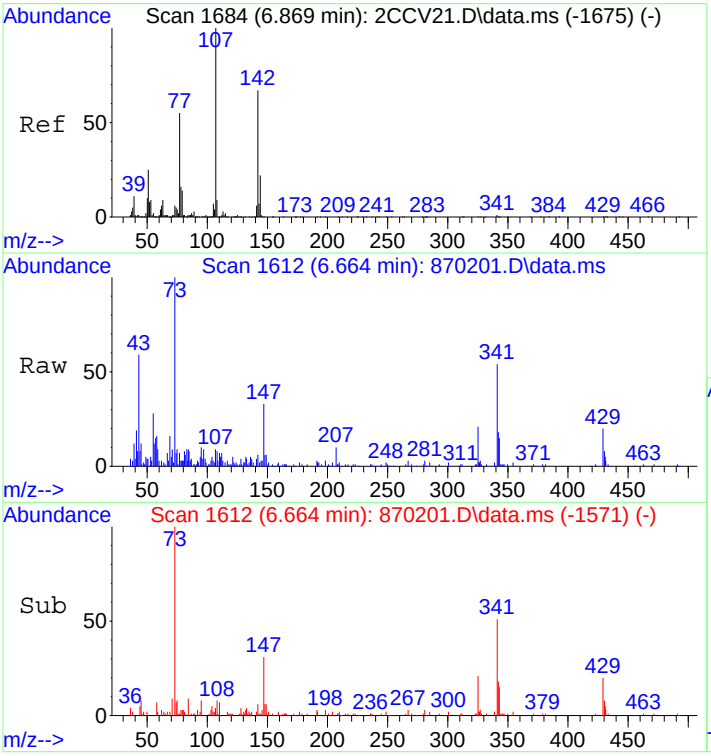


#32
4-Cl-aniline
Concen: 0.12 ug/mL
RT: 6.090 min Scan# 1410
Delta R.T. -0.082 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:127 Resp: 5177

Ion	Ratio	Lower	Upper
127	100		
129	70.4	1.8	61.8#
65	6.2	1.6	61.6
92	0.0	0.0	48.2

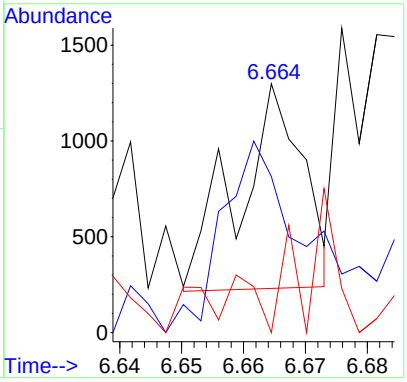


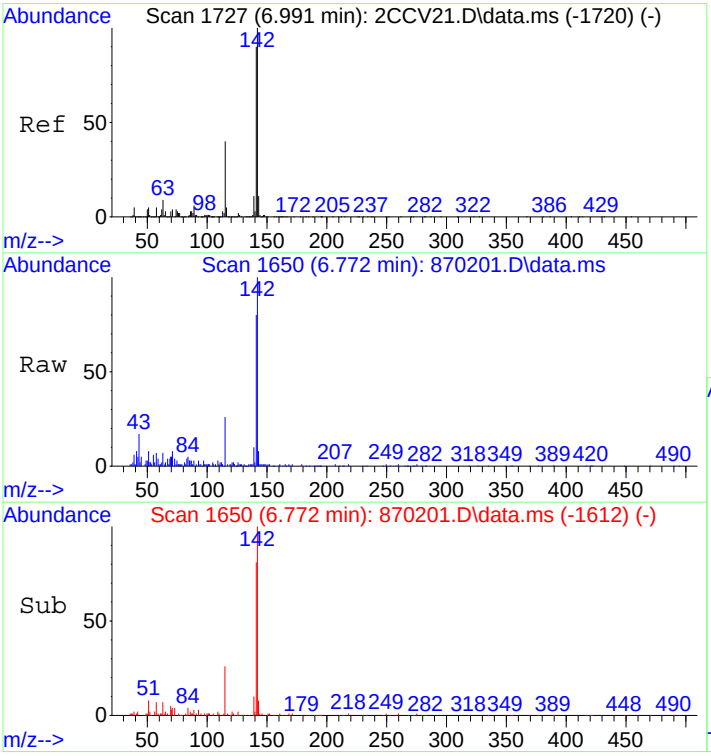


#36
4Cl3methylphe
Concen: 0.03 ug/mL
RT: 6.664 min Scan# 1612
Delta R.T. 0.000 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:107 Resp: 782

Ion	Ratio	Lower	Upper
107	100		
142	63.1	50.0	110.0
144	18.0	0.0	56.8

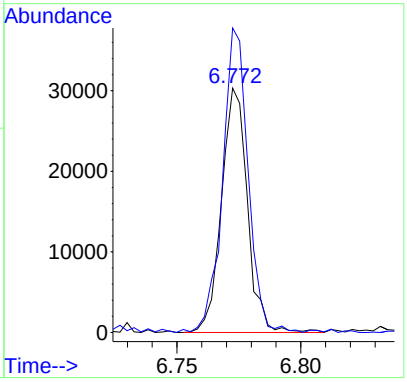


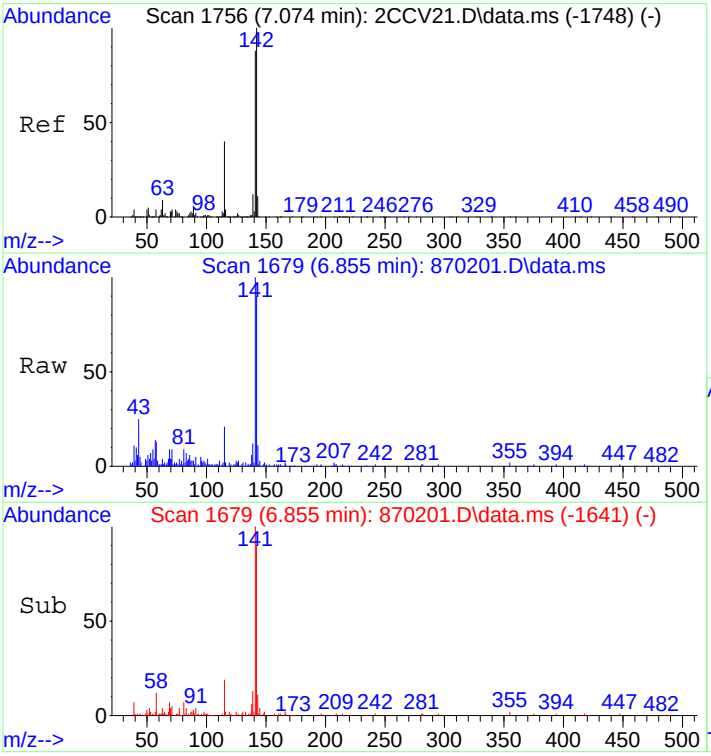


#37
2Methylnaphth
Concen: 0.34 ug/mL
RT: 6.772 min Scan# 1650
Delta R.T. -0.008 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:141 Resp: 22126

Ion	Ratio	Lower	Upper
141	100		
142	124.4	83.7	143.7

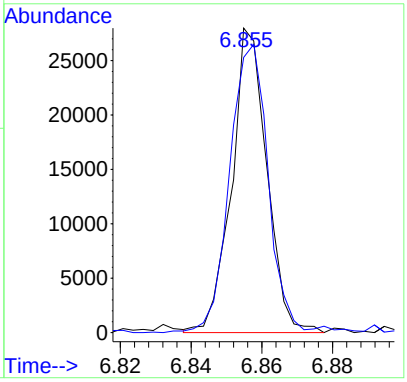


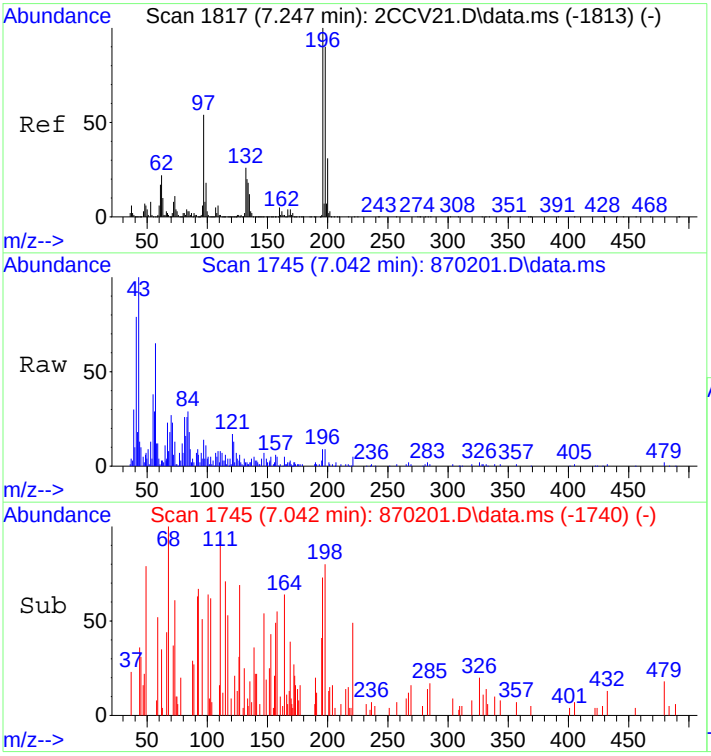


#38
1Methylnaphth
Concen: 0.28 ug/mL
RT: 6.855 min Scan# 1679
Delta R.T. -0.011 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:141 Resp: 19349

Ion	Ratio	Lower	Upper
141	100		
142	89.8	79.5	139.5

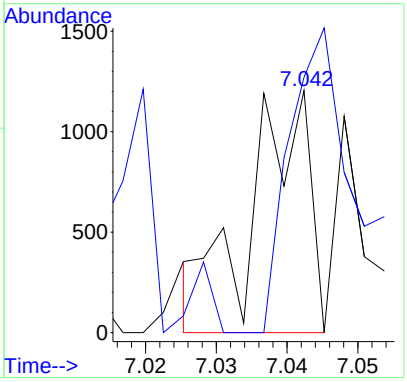


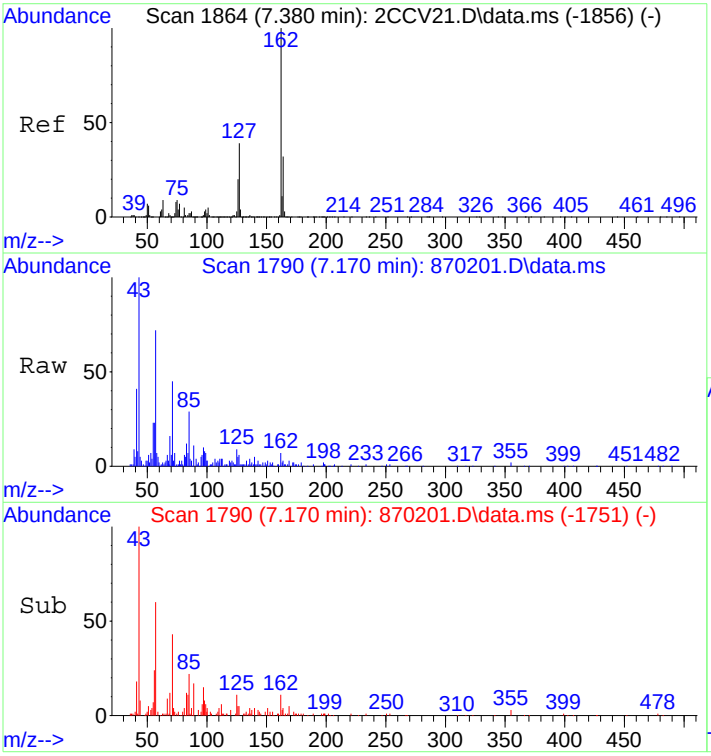


#43
245Triclpheno
Concen: 0.03 ug/mL
RT: 7.042 min Scan# 1745
Delta R.T. -0.006 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:196 Resp: 693

Ion	Ratio	Lower	Upper
196	100		
198	98.6	67.0	127.0

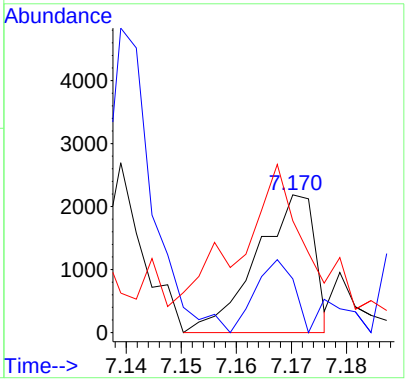


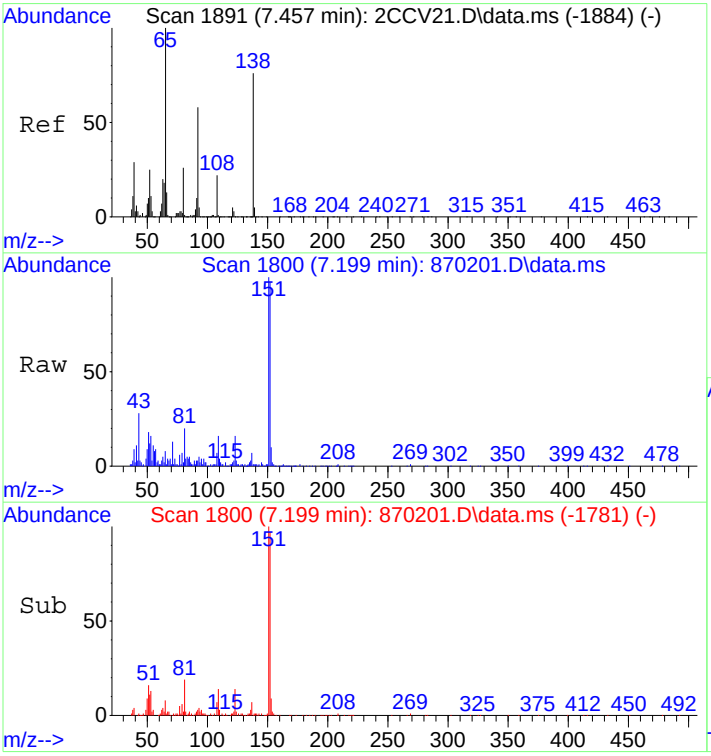


#45
2Clnaphthalen
Concen: 0.02 ug/mL
RT: 7.170 min Scan# 1790
Delta R.T. -0.006 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:162 Resp: 1606

Ion	Ratio	Lower	Upper
162	100		
164	21.5	2.5	62.5
127	54.1	7.1	67.1

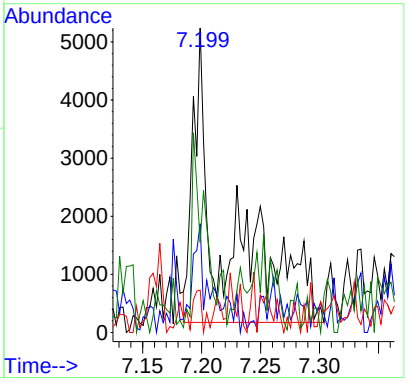


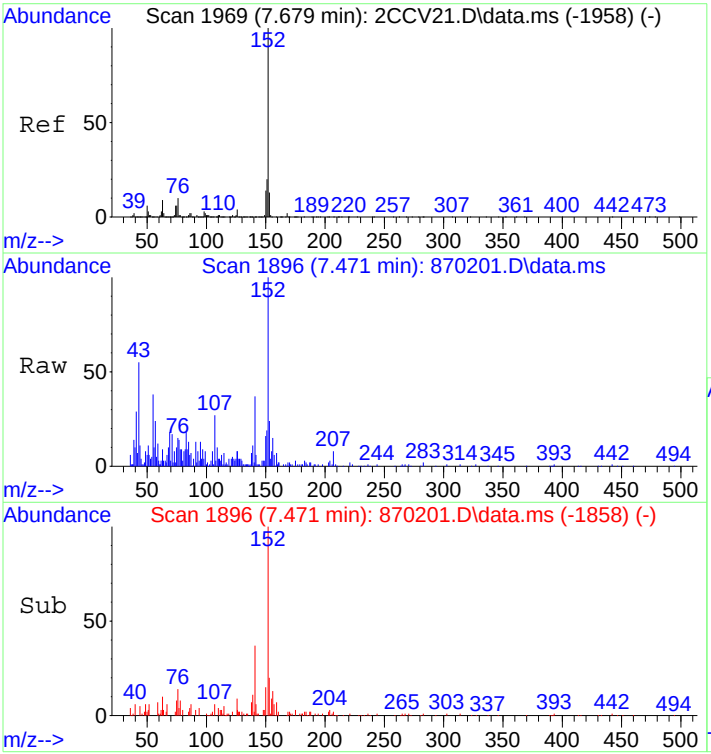


#46
2Nitroaniline
Concen: 0.56 ug/mL
RT: 7.199 min Scan# 1800
Delta R.T. -0.062 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion: 65 Resp: 9349

Ion	Ratio	Lower	Upper
65	100		
92	32.4	32.1	92.1
138	9.2	73.8	133.8#
80	28.9	0.0	55.1

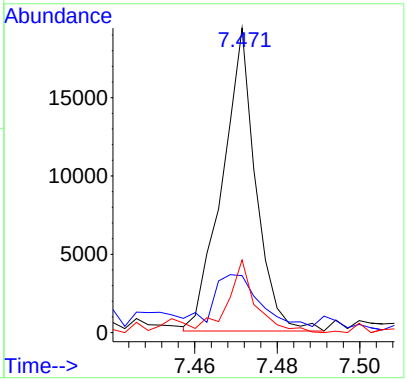


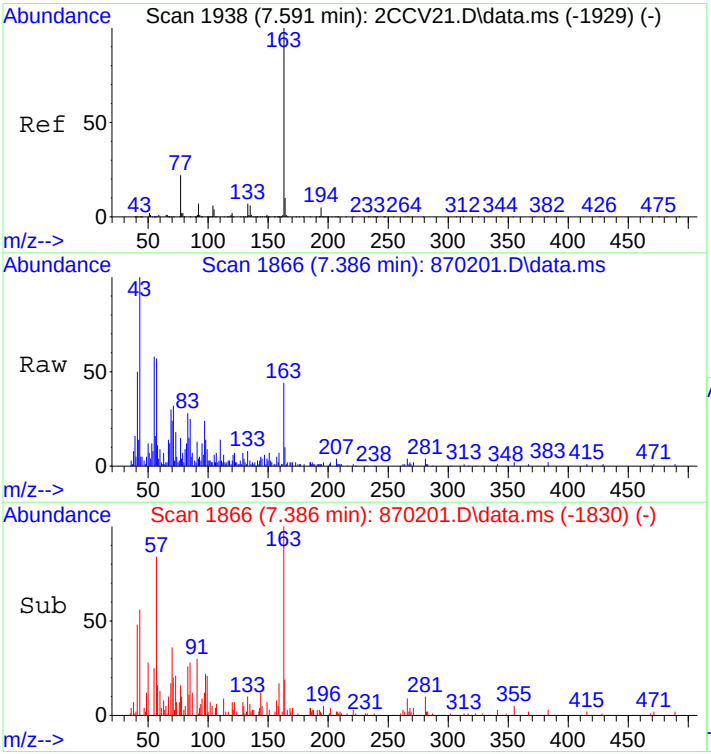


#47
Acnaphthylene
Concen: 0.09 ug/mL
RT: 7.471 min Scan# 1896
Delta R.T. -0.008 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:152 Resp: 10910

Ion	Ratio	Lower	Upper
152	100		
151	14.1	0.0	49.5
153	24.0	0.0	43.0

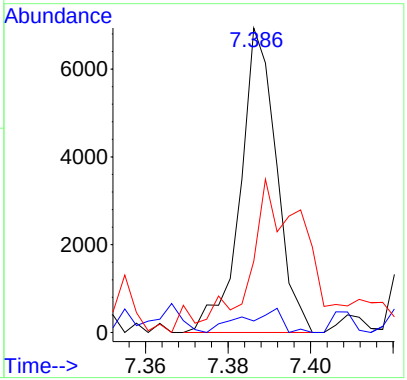


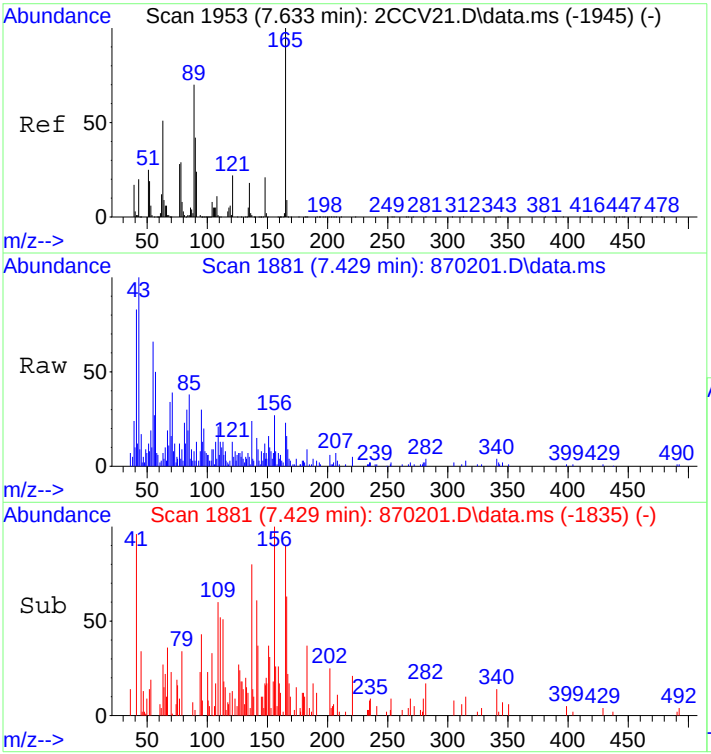


#48
Dimethylphtha
Concen: 0.05 ug/mL
RT: 7.386 min Scan# 1866
Delta R.T. -0.014 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:163 Resp: 4196

Ion	Ratio	Lower	Upper
163	100		
194	3.8	0.0	34.0
164	14.9	0.0	40.3

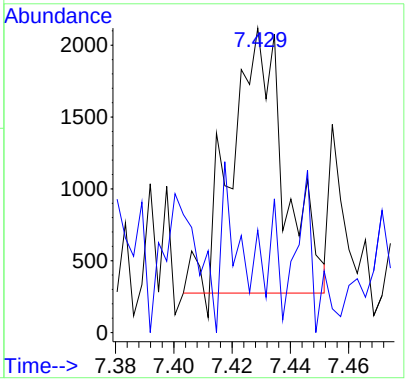


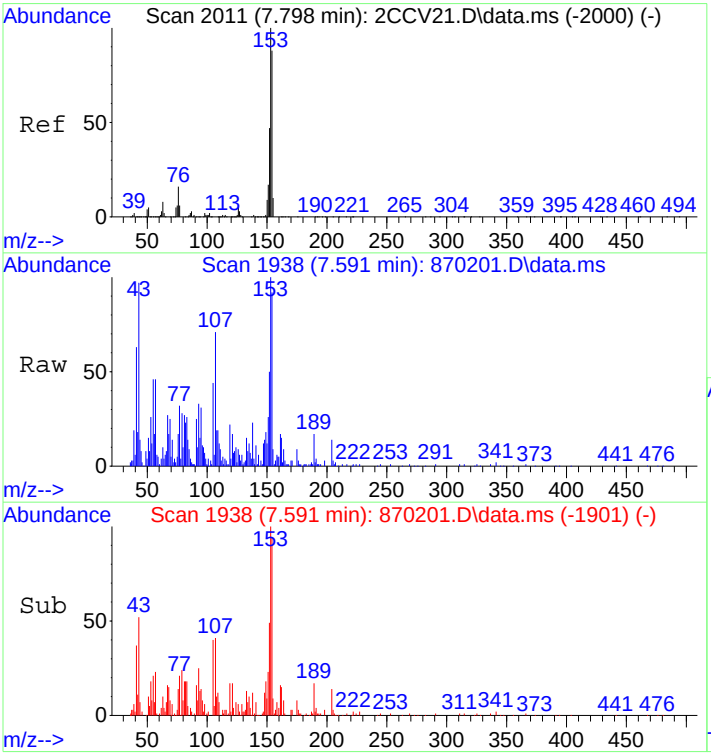


#49
26Dinitrotolu
Concen: 0.13 ug/mL
RT: 7.429 min Scan# 1881
Delta R.T. -0.014 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:165 Resp: 2325

Ion	Ratio	Lower	Upper
165	100		
89	15.5	20.8	80.8#

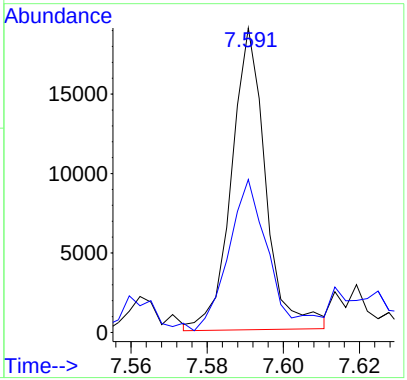


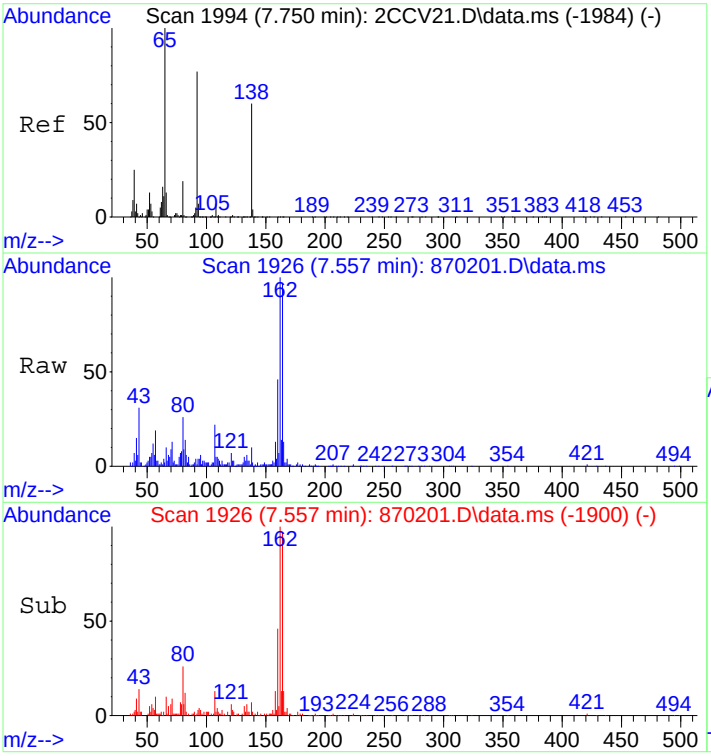


#50
Acenaphthene
Concen: 0.15 ug/mL
RT: 7.591 min Scan# 1938
Delta R.T. -0.011 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:153 Resp: 11860

Ion	Ratio	Lower	Upper
153	100		
152	48.4	15.5	75.5

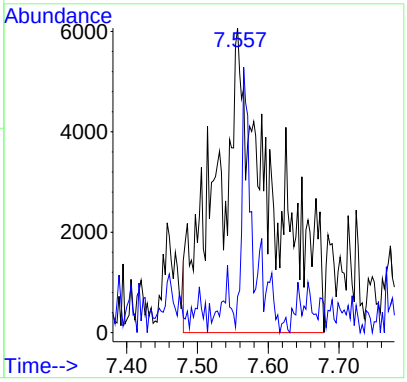


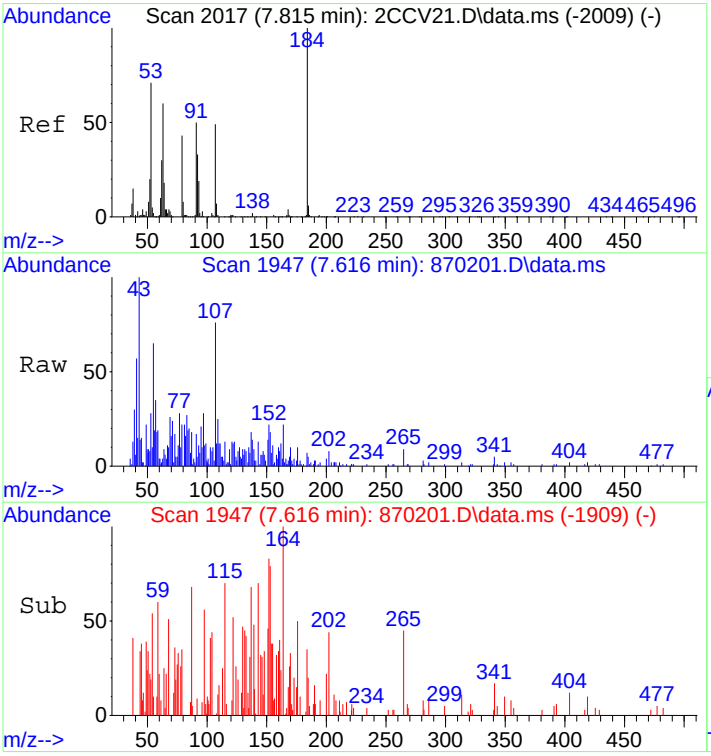


#51
3Nitroaniline
Concen: 1.67 ug/mL
RT: 7.557 min Scan# 1926
Delta R.T. 0.000 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:138 Resp: 32357

Ion	Ratio	Lower	Upper
138	100		
92	7.0	74.6	134.6#

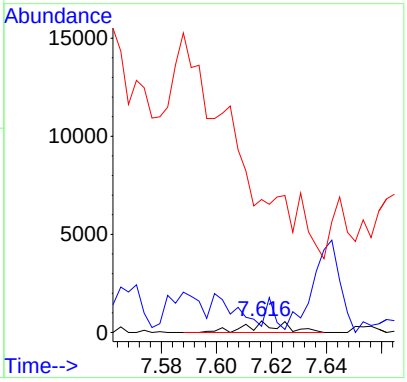


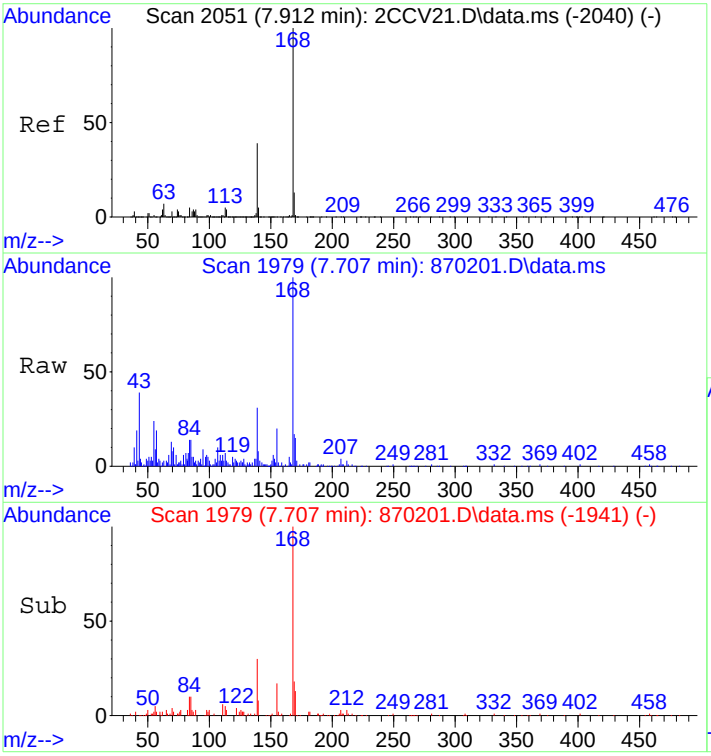


#52
24Dinitphenol
Concen: 2.42 ug/mL
RT: 7.616 min Scan# 1947
Delta R.T. -0.008 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:184 Resp: 535

Ion	Ratio	Lower	Upper
184	100		
63	30.8	44.6	104.6#
107	660.3	13.0	73.0#

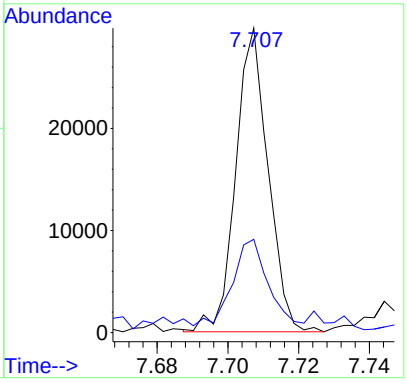


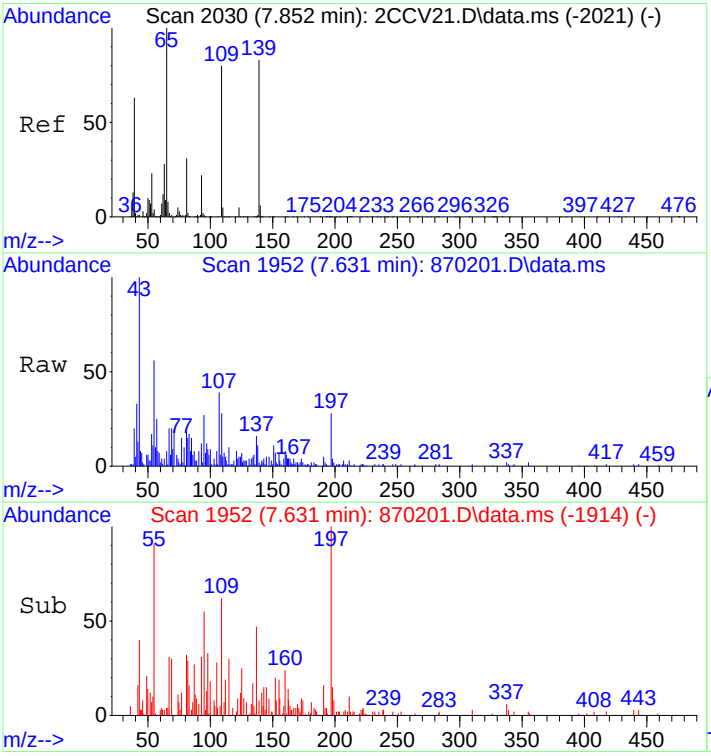


#53
Dibenzofuran
Concen: 0.19 ug/mL
RT: 7.707 min Scan# 1979
Delta R.T. -0.008 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:168 Resp: 18919

Ion	Ratio	Lower	Upper
168	100		
139	27.5	7.1	67.1

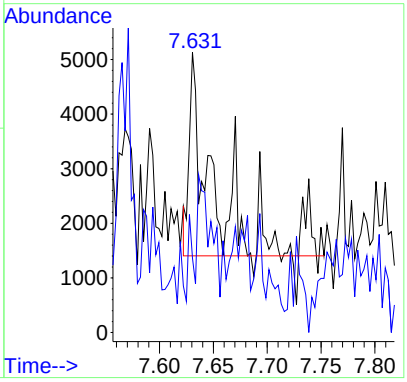


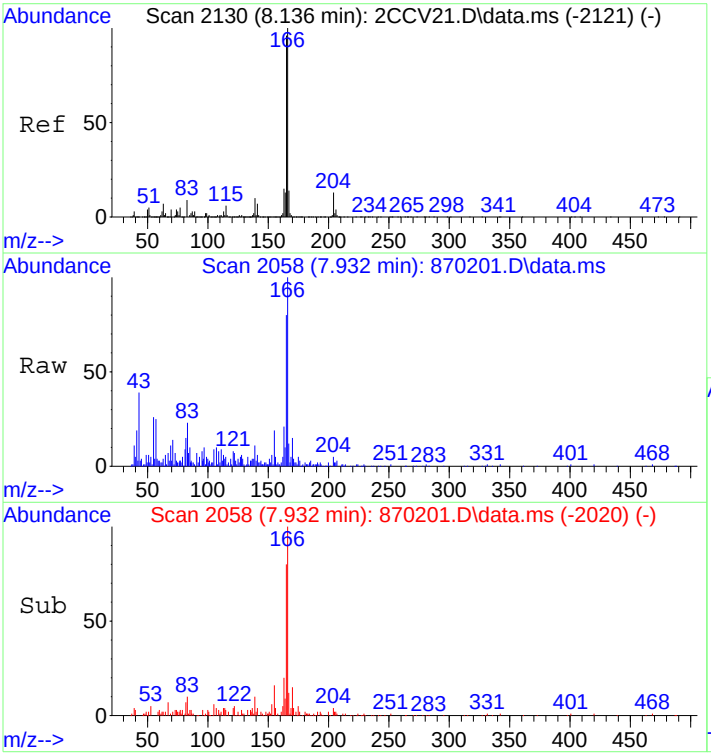


#55
4-Nitrophenol
Concen: 0.89 ug/mL
RT: 7.631 min Scan# 1952
Delta R.T. -0.037 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:109 Resp: 5526

Ion	Ratio	Lower	Upper
109	100		
65	13.7	123.5	183.5#

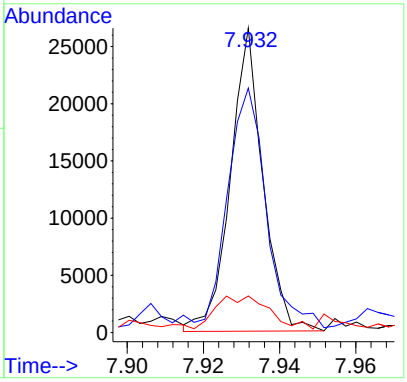


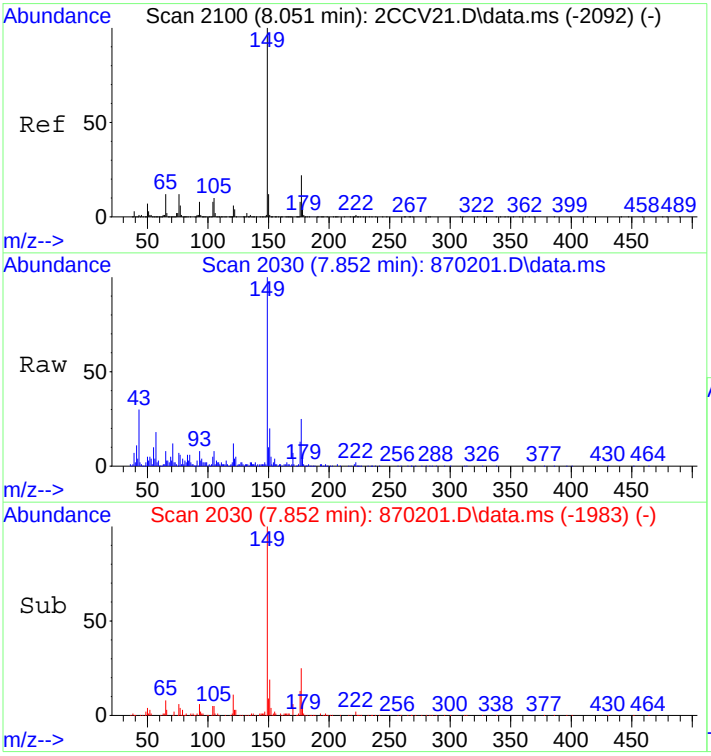


#58
Fluorene
Concen: 0.19 ug/mL
RT: 7.932 min Scan# 2058
Delta R.T. -0.008 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:166 Resp: 15708

Ion	Ratio	Lower	Upper
166	100		
165	79.1	64.5	124.5
167	9.6	0.0	42.6

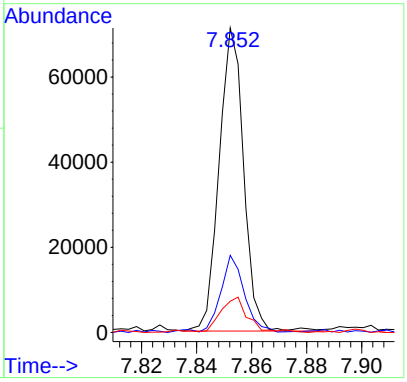


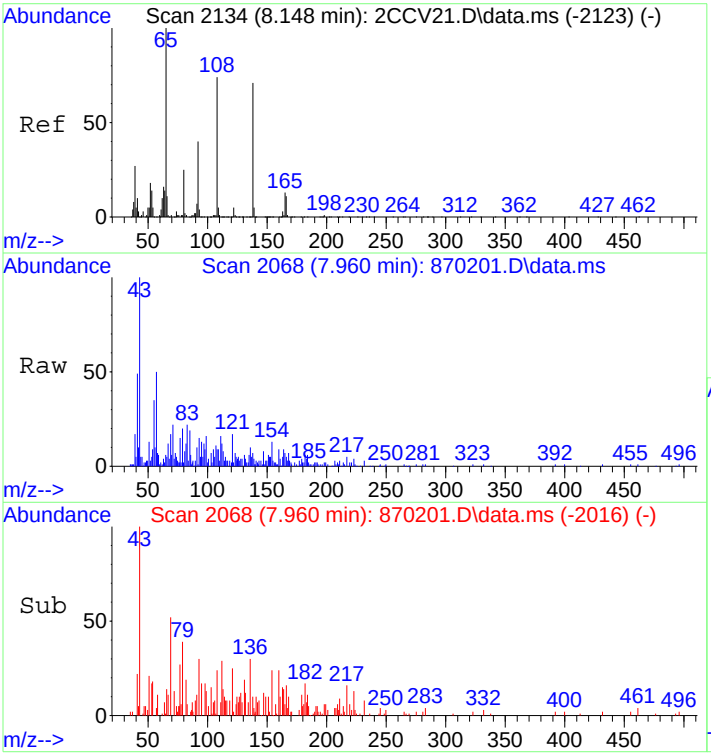


#60
Diethylphthal
Concen: 0.52 ug/mL
RT: 7.852 min Scan# 2030
Delta R.T. -0.011 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:149 Resp: 44074

Ion	Ratio	Lower	Upper
149	100		
177	24.6	0.0	52.2
150	10.1	0.0	42.5

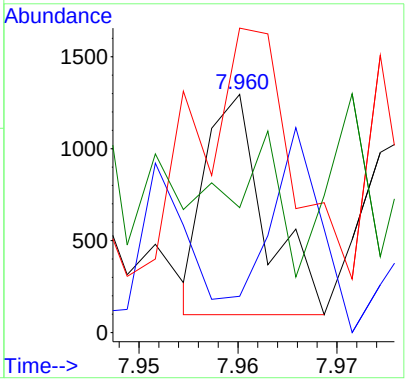


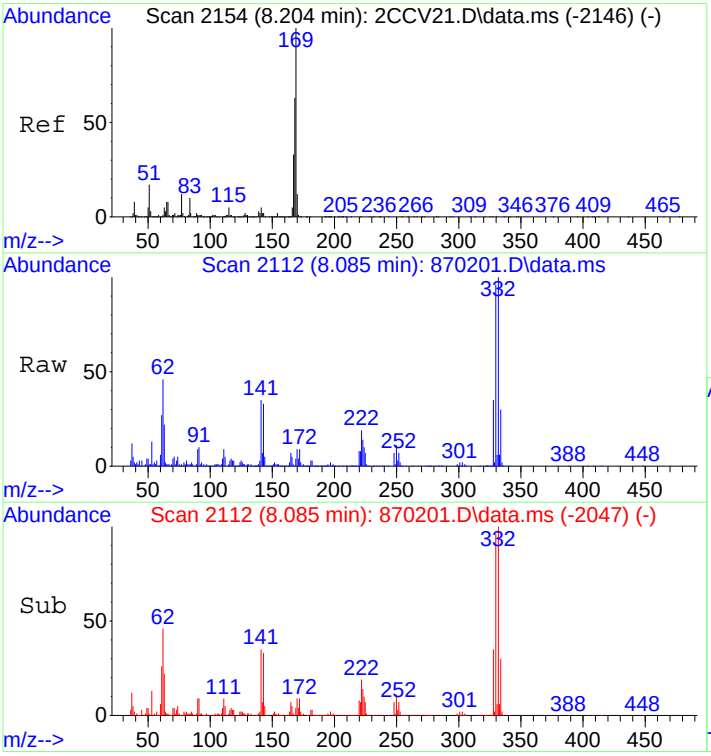


#61
4Nitroaniline
Concen: 0.03 ug/mL
RT: 7.960 min Scan# 2068
Delta R.T. 0.003 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:138 Resp: 503

Ion	Ratio	Lower	Upper
138	100		
92	0.0	19.9	79.9#
108	79.2	39.4	99.4
139	8.3	0.0	41.3

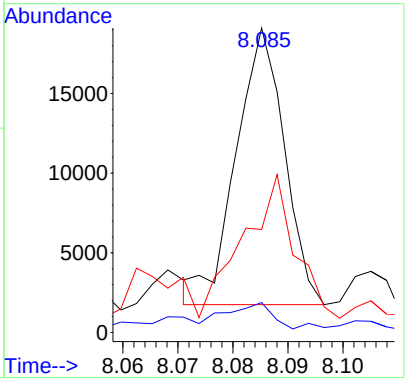


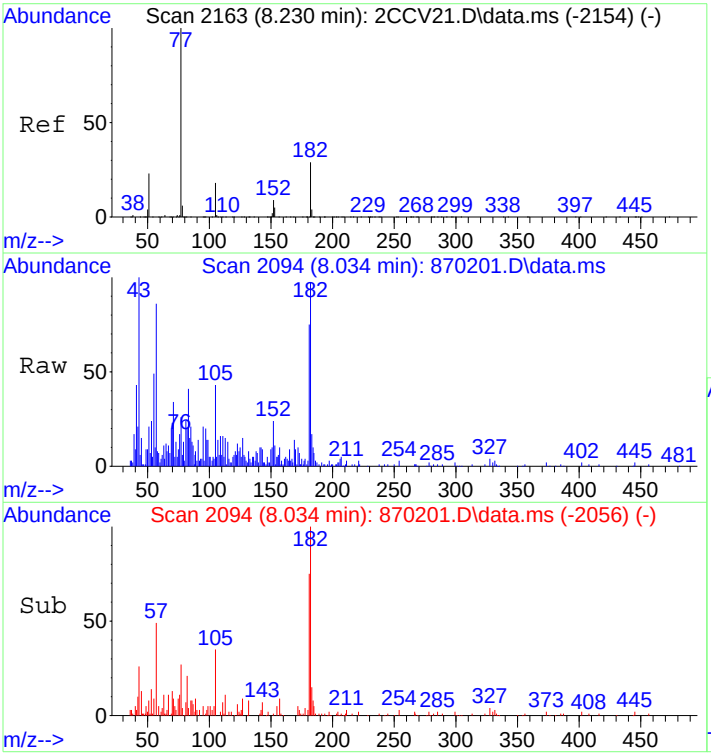


#65
Ntrsdiphlam&Diphlam
Concen: 0.19 ug/mL
RT: 8.085 min Scan# 2112
Delta R.T. 0.068 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:169 Resp: 10594

Ion	Ratio	Lower	Upper
169	100		
168	9.0	34.8	94.8#
167	28.0	4.6	64.6

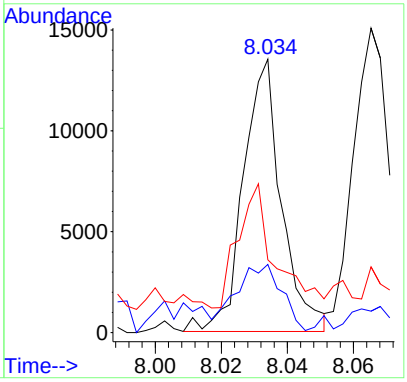


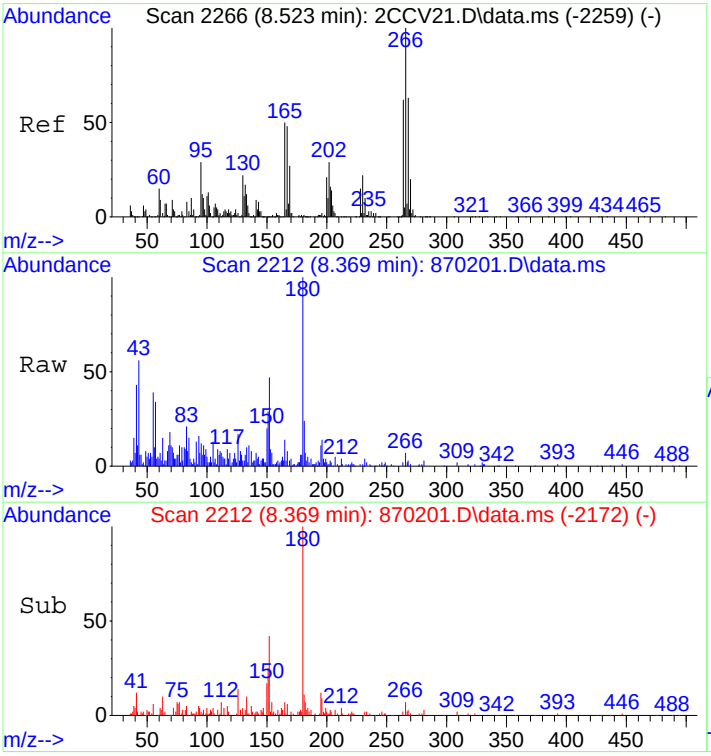


#66
Azobenz&12Diphlhyd
Concen: 0.52 ug/mL
RT: 8.034 min Scan# 2094
Delta R.T. -0.008 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:182 Resp: 10881

Ion	Ratio	Lower	Upper
182	100		
152	18.8	3.5	63.5
77	14.3	348.6	408.6#

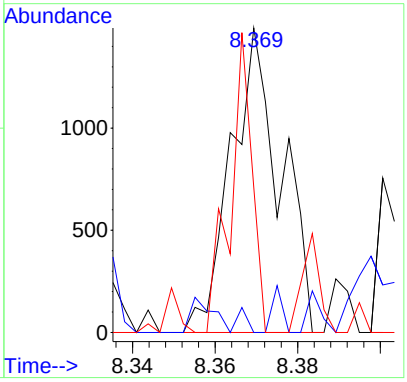


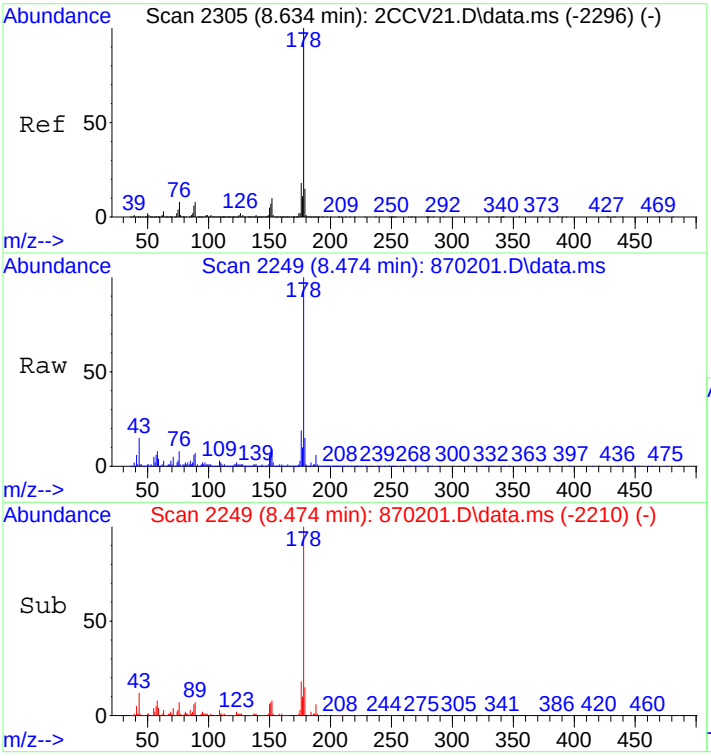


#69
Pentaclphenol
Concen: 2.53 ug/mL
RT: 8.369 min Scan# 2212
Delta R.T. -0.003 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:266 Resp: 1244

Ion	Ratio	Lower	Upper
266	100		
264	0.0	29.5	89.5#
268	44.9	31.7	91.7

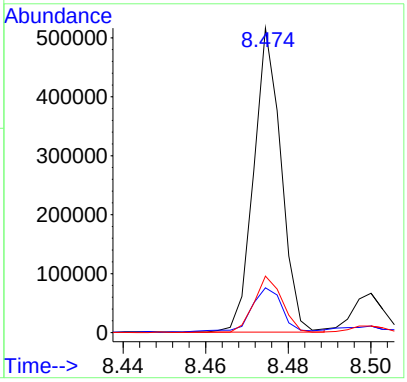


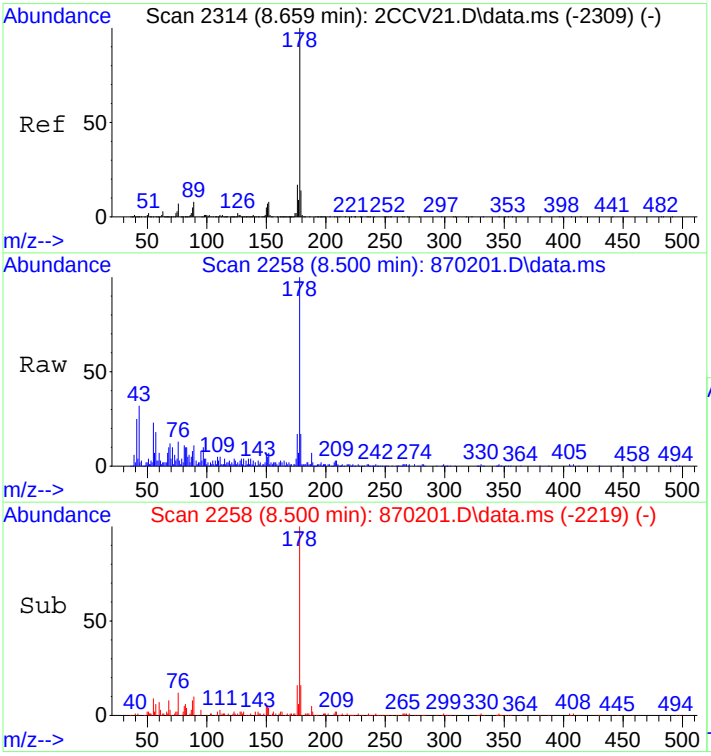


#70
Phenanthrene
Concen: 2.42 ug/mL
RT: 8.474 min Scan# 2249
Delta R.T. -0.006 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:178 Resp: 237631

Ion	Ratio	Lower	Upper
178	100		
179	14.5	0.0	44.4
176	18.5	0.0	48.0

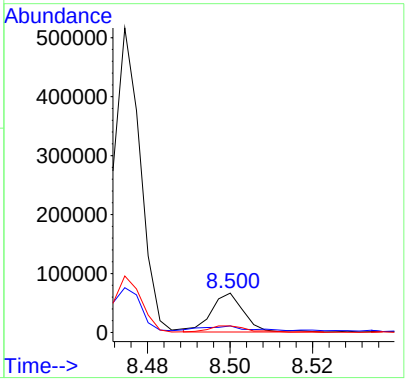


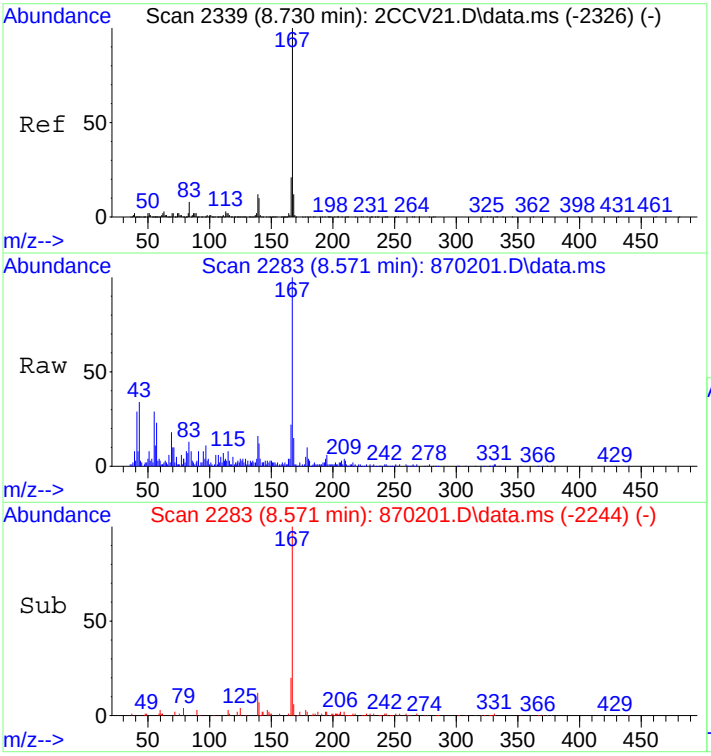


#71
Anthracene
Concen: 0.36 ug/mL
RT: 8.500 min Scan# 2258
Delta R.T. -0.006 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:178 Resp: 35955

Ion	Ratio	Lower	Upper
178	100		
179	12.5	0.0	45.0
176	16.4	0.0	48.4

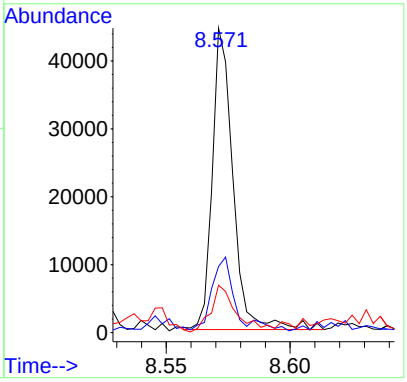


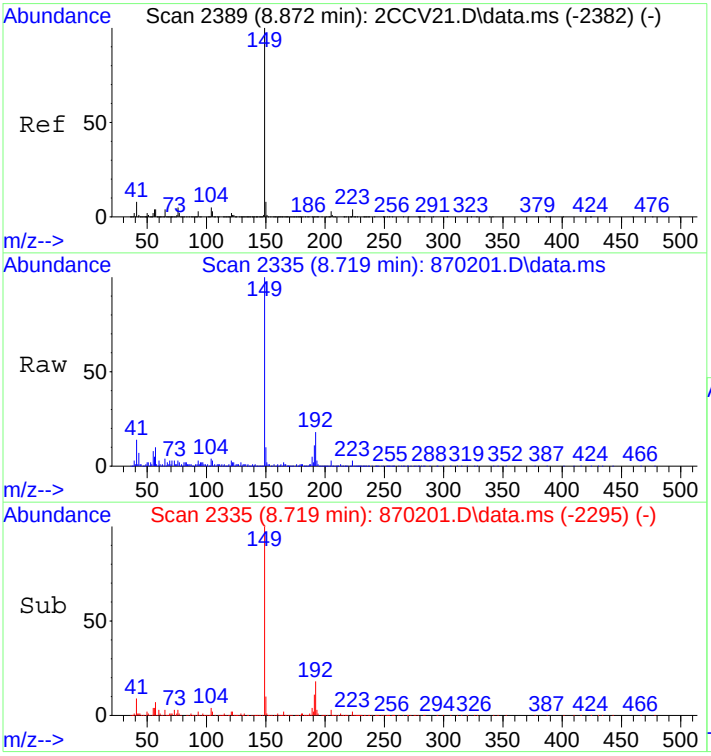


#72
Carbazole
Concen: 0.31 ug/mL
RT: 8.571 min Scan# 2283
Delta R.T. -0.006 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:167 Resp: 25875

Ion	Ratio	Lower	Upper
167	100		
166	20.2	0.0	50.6
139	13.9	0.0	43.0

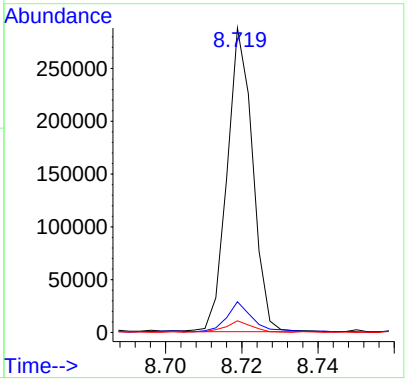


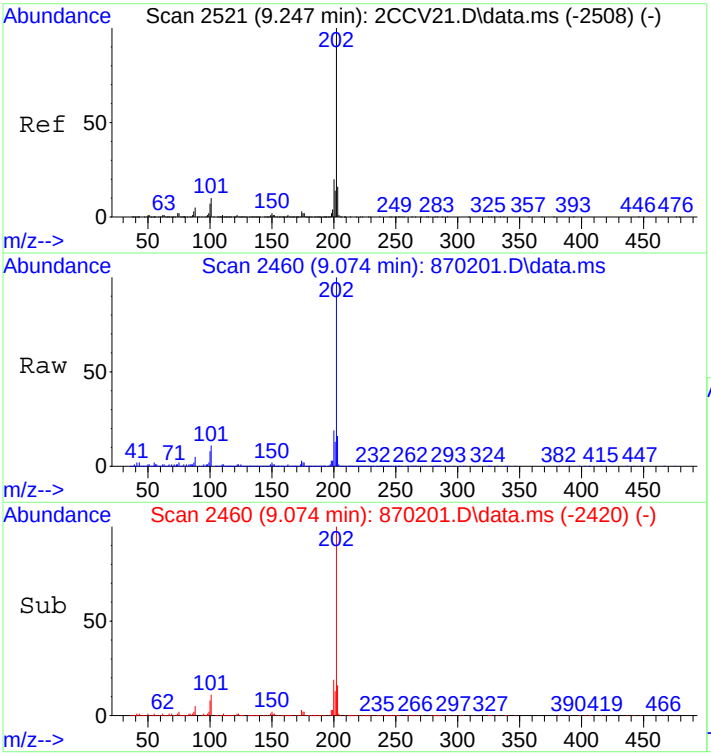


#73
Dinbtylphthal
Concen: 1.18 ug/mL
RT: 8.719 min Scan# 2335
Delta R.T. -0.003 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:149 Resp: 133879

Ion	Ratio	Lower	Upper
149	100		
150	9.7	0.0	38.5
104	3.8	0.0	34.3

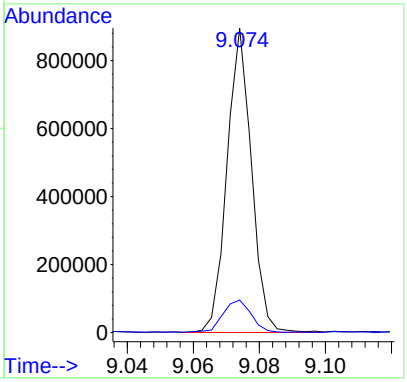


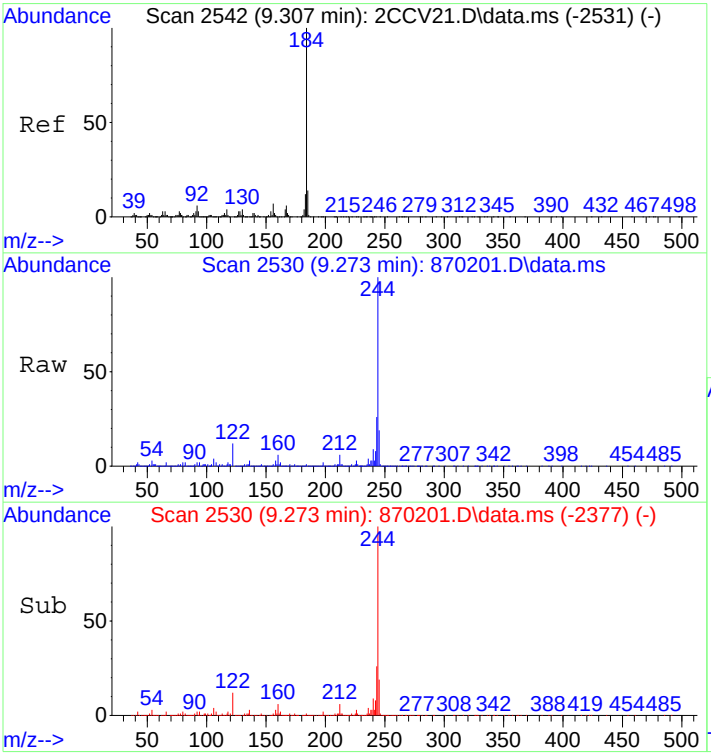


#74
Fluoranthene
Concen: 4.64 ug/mL
RT: 9.074 min Scan# 2460
Delta R.T. -0.003 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:202 Resp: 459443

Ion	Ratio	Lower	Upper
202	100		
101	10.6	0.0	41.2

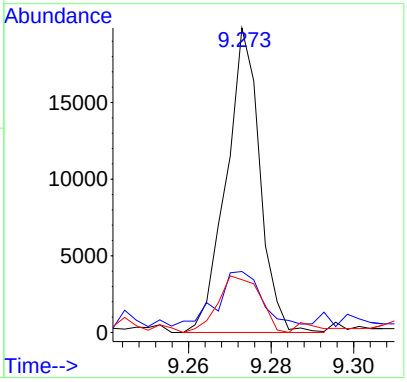


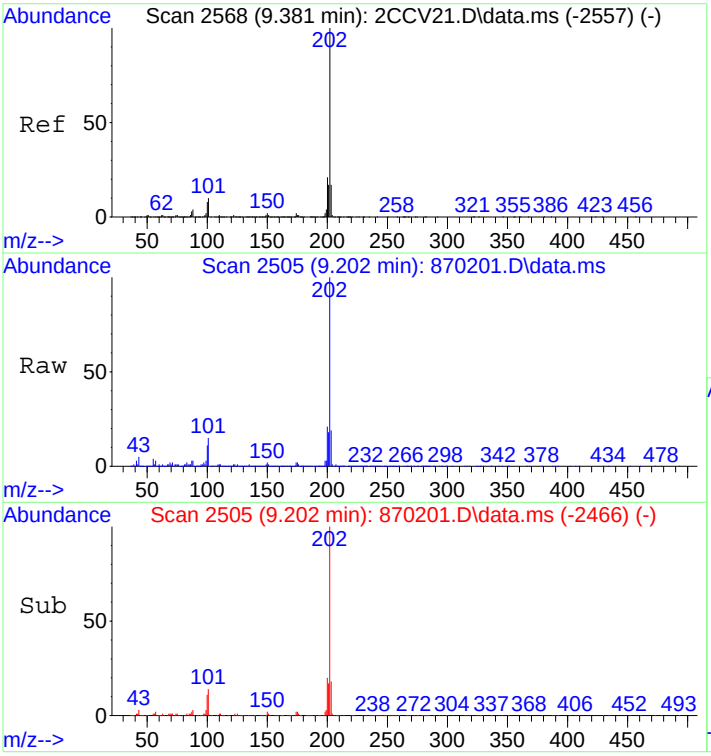


#76
Benzidine
Concen: Below ug/mL
RT: 9.273 min Scan# 2530
Delta R.T. 0.134 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:184 Resp: 11192

Ion	Ratio	Lower	Upper
184	100		
185	16.3	0.0	43.8
183	17.3	0.0	41.8

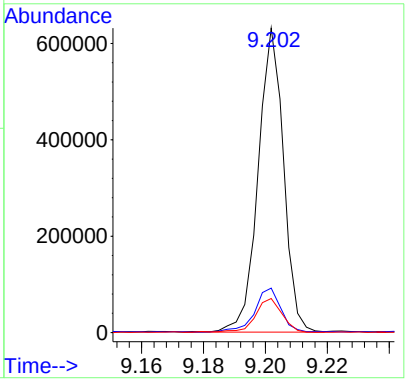


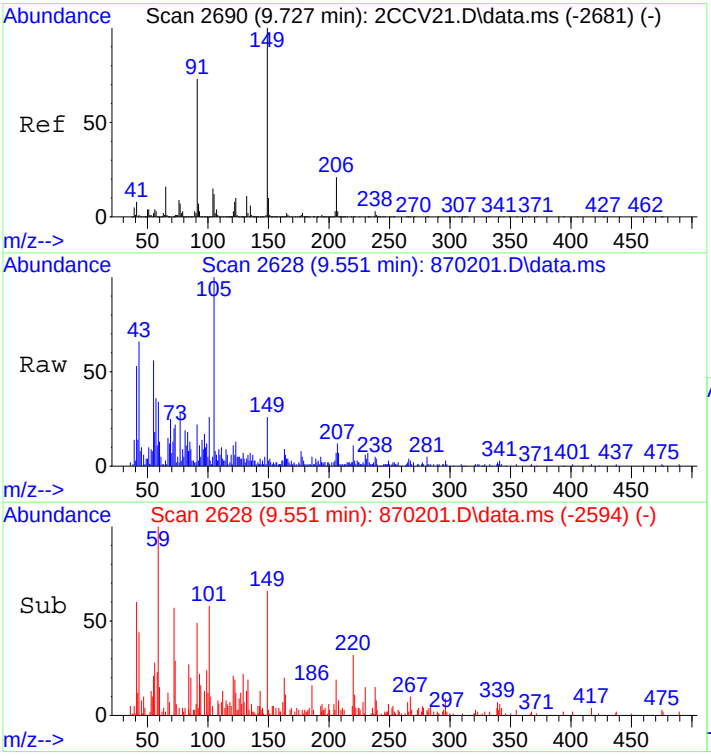


#77
Pyrene
Concen: 3.52 ug/mL
RT: 9.202 min Scan# 2505
Delta R.T. -0.006 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:202 Resp: 359842

Ion	Ratio	Lower	Upper
202	100		
101	14.4	0.0	44.0
100	11.1	0.0	42.2

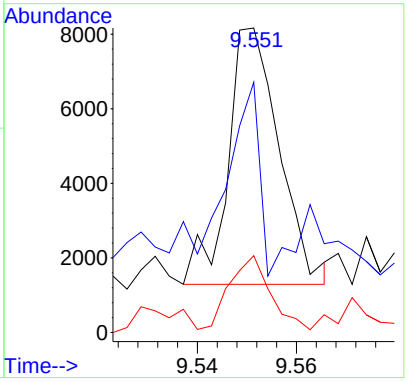


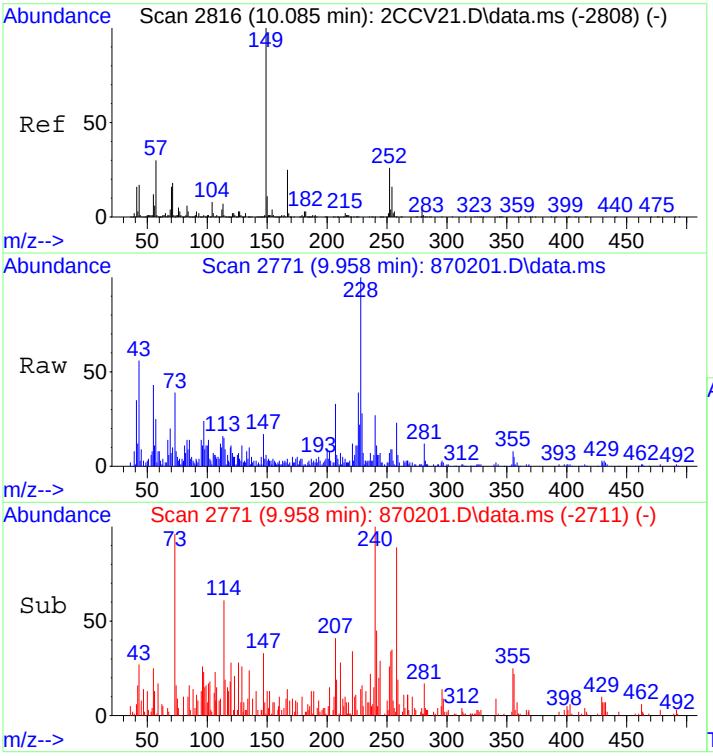


#79
Btylbzylphth
Concen: 0.10 ug/mL
RT: 9.551 min Scan# 2628
Delta R.T. -0.003 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:149 Resp: 4962

Ion	Ratio	Lower	Upper
149	100		
91	63.0	40.5	100.5
206	23.0	0.0	48.9

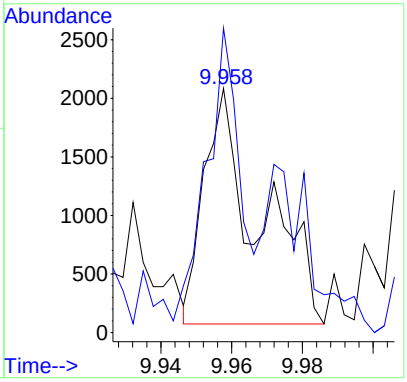


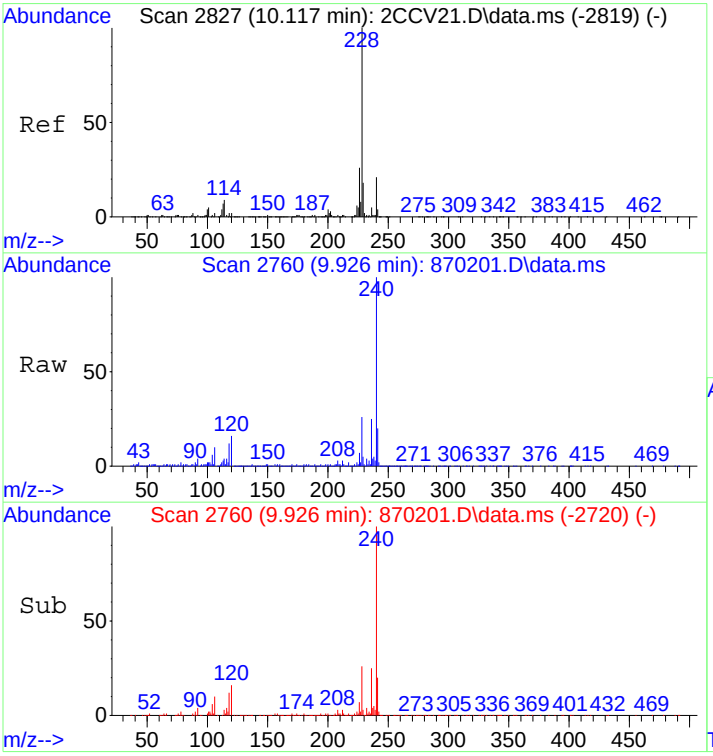


#80
33Diclbnzidin
Concen: Below ug/mL
RT: 9.958 min Scan# 2771
Delta R.T. 0.054 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:252 Resp: 2168

Ion	Ratio	Lower	Upper
252	100		
254	113.2	31.7	91.7#

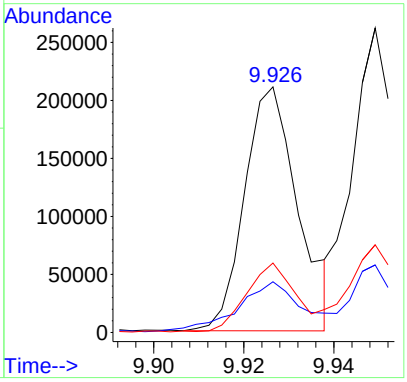


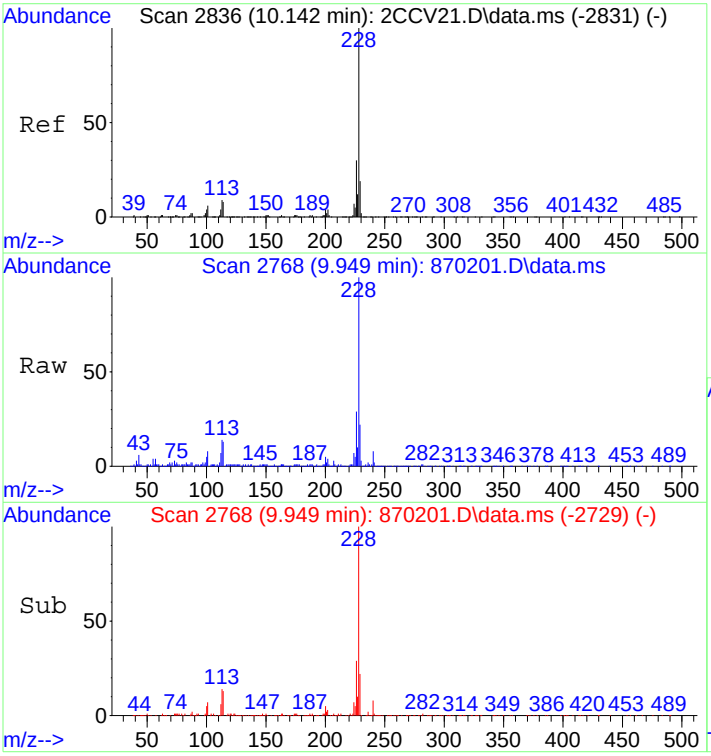


#81
B[a]anthracen
Concen: 1.82 ug/mL
RT: 9.926 min Scan# 2760
Delta R.T. -0.003 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:228 Resp: 172887

Ion	Ratio	Lower	Upper
228	100		
229	19.0	0.0	48.8
226	27.8	0.0	56.6

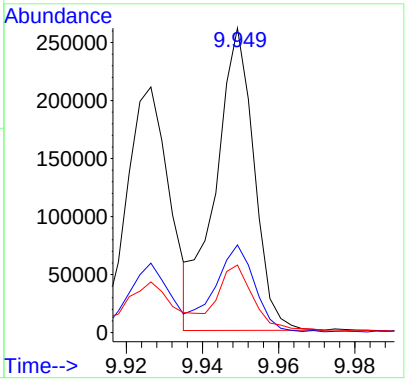


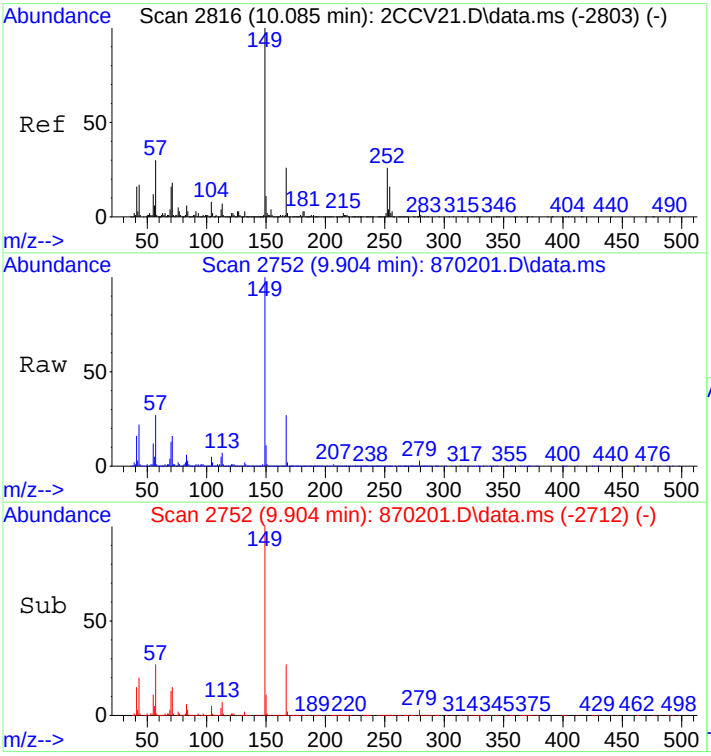


#82
Chrysene
Concen: 2.00 ug/mL
RT: 9.949 min Scan# 2768
Delta R.T. -0.006 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:228 Resp: 182668

Ion	Ratio	Lower	Upper
228	100		
226	28.8	0.0	58.6
229	21.6	0.0	49.6

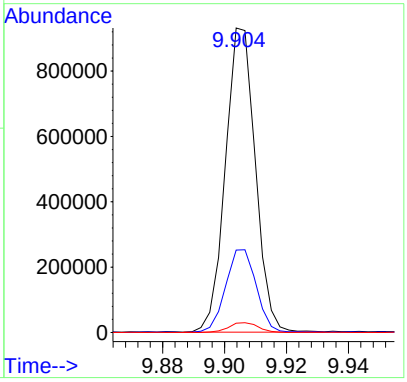


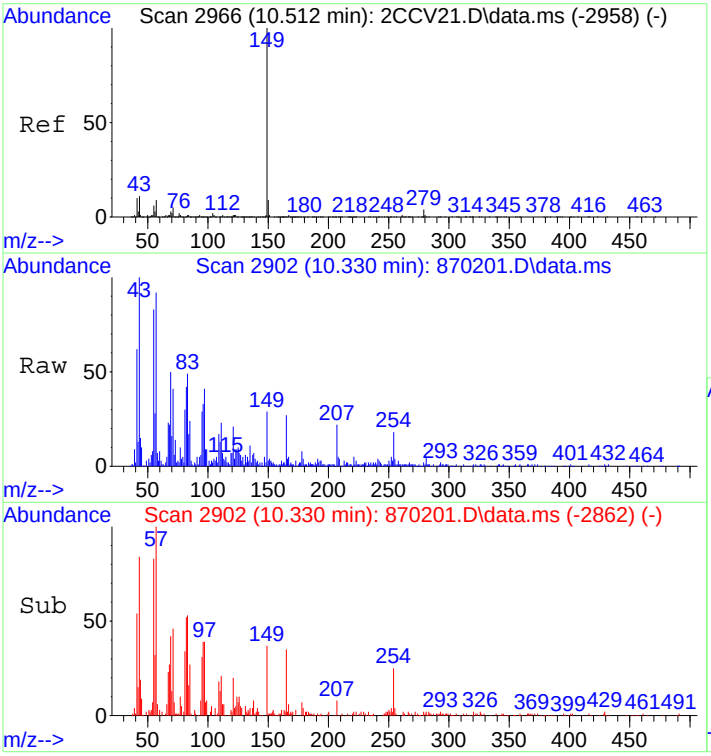


#83
bis2Ethlhxlph
Concen: 8.69 ug/mL
RT: 9.904 min Scan# 2752
Delta R.T. -0.003 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:149 Resp: 626986

Ion	Ratio	Lower	Upper
149	100		
167	27.1	0.0	56.9
279	3.0	0.0	33.6

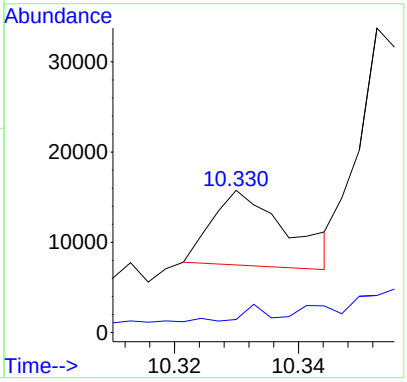


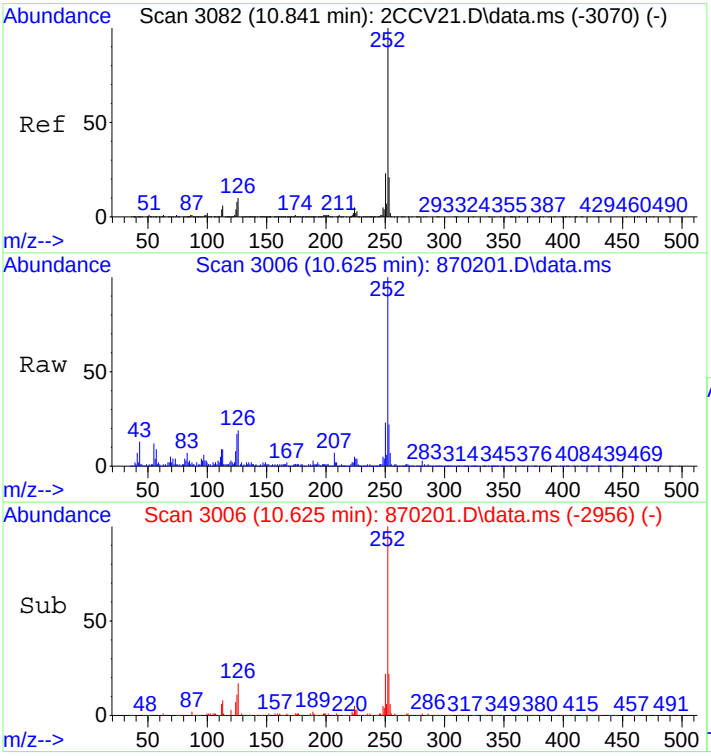


#84
Dinoctylphthl
Concen: 0.05 ug/mL
RT: 10.330 min Scan# 2902
Delta R.T. -0.003 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:149 Resp: 6886

Ion	Ratio	Lower	Upper
149	100		
150	3.2	0.0	39.0

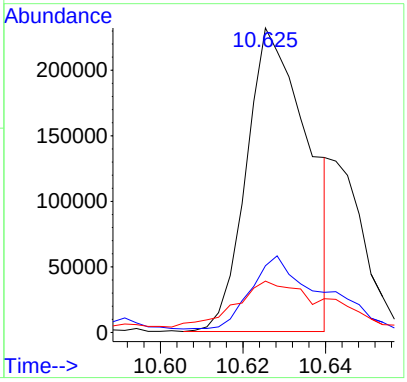


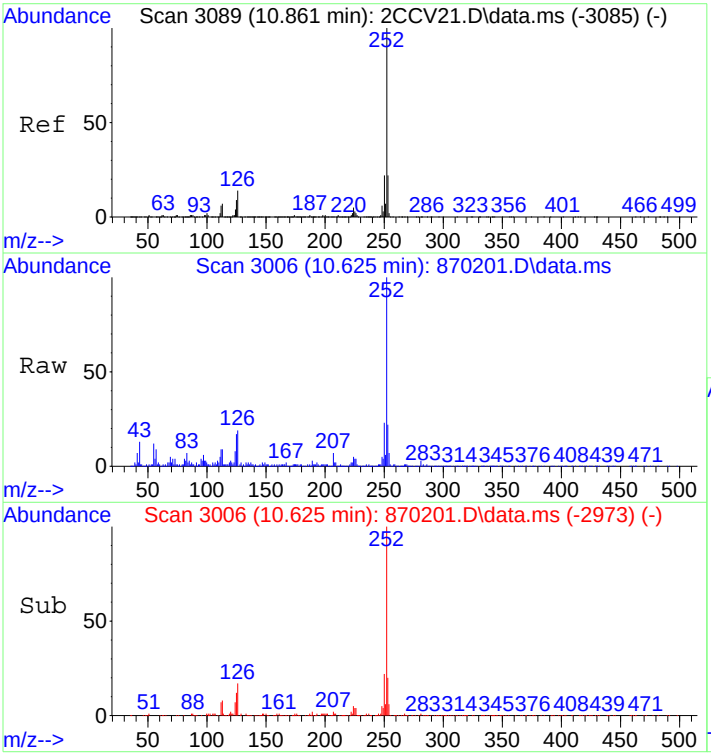


#86
B[b]fluoranth
Concen: 2.91 ug/mL
RT: 10.625 min Scan# 3006
Delta R.T. -0.003 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:252 Resp: 239192

Ion	Ratio	Lower	Upper
252	100		
253	20.8	0.0	50.8
125	13.8	0.0	41.9

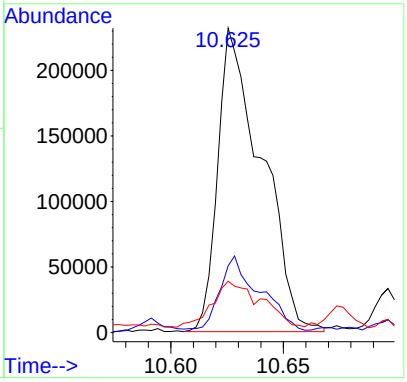


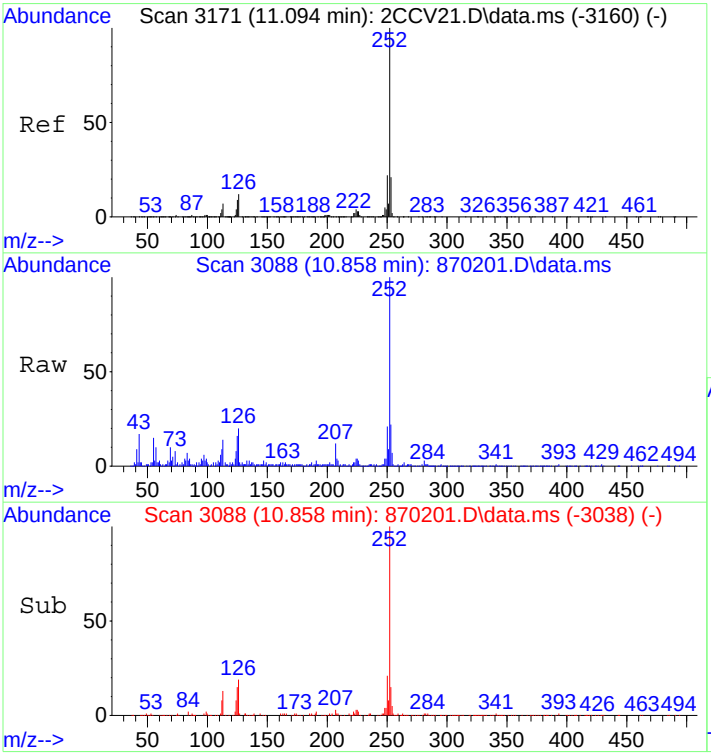


#87
B[k]fluoranth
Concen: 4.05 ug/mL
RT: 10.625 min Scan# 3006
Delta R.T. -0.023 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:252 Resp: 313742

Ion	Ratio	Lower	Upper
252	100		
253	20.8	0.0	50.8
125	13.8	0.0	41.3

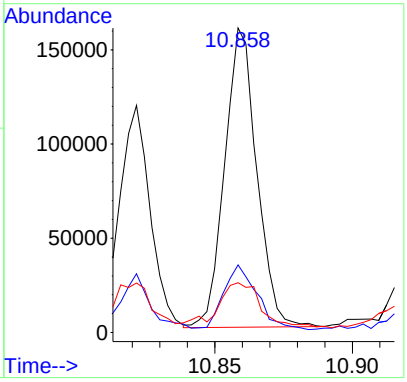


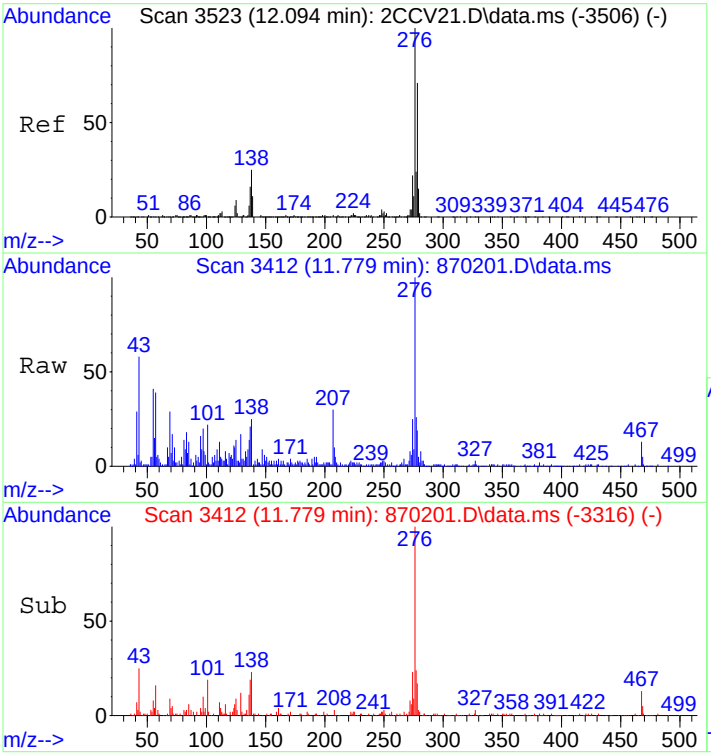


#88
Benz[a]pyrene
Concen: 1.72 ug/mL
RT: 10.858 min Scan# 3088
Delta R.T. -0.003 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:252 Resp: 128885

Ion	Ratio	Lower	Upper
252	100		
253	21.2	0.0	50.4
125	14.6	0.0	43.2

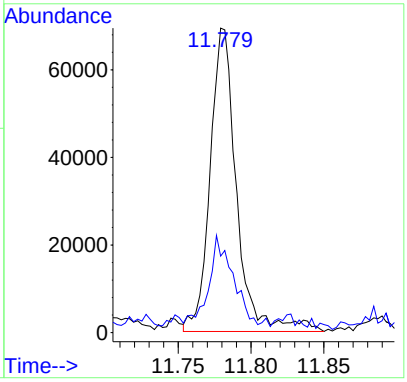


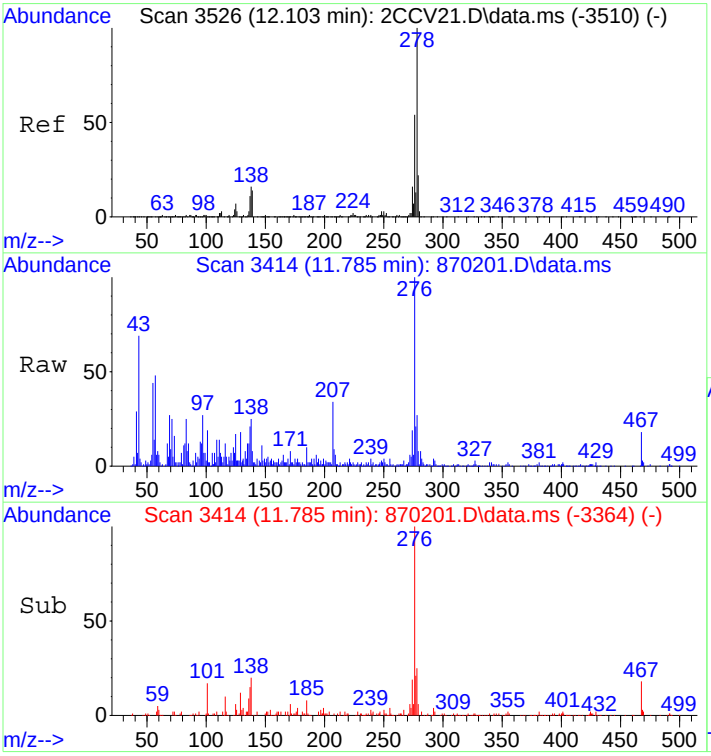


#89
Indeno-pyrene
Concen: 1.15 ug/mL
RT: 11.779 min Scan# 3412
Delta R.T. -0.006 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:276 Resp: 87634

Ion	Ratio	Lower	Upper
276	100		
138	22.6	2.2	62.2

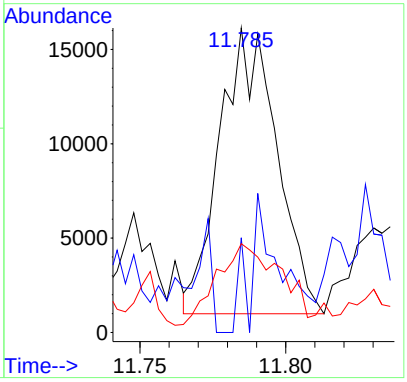


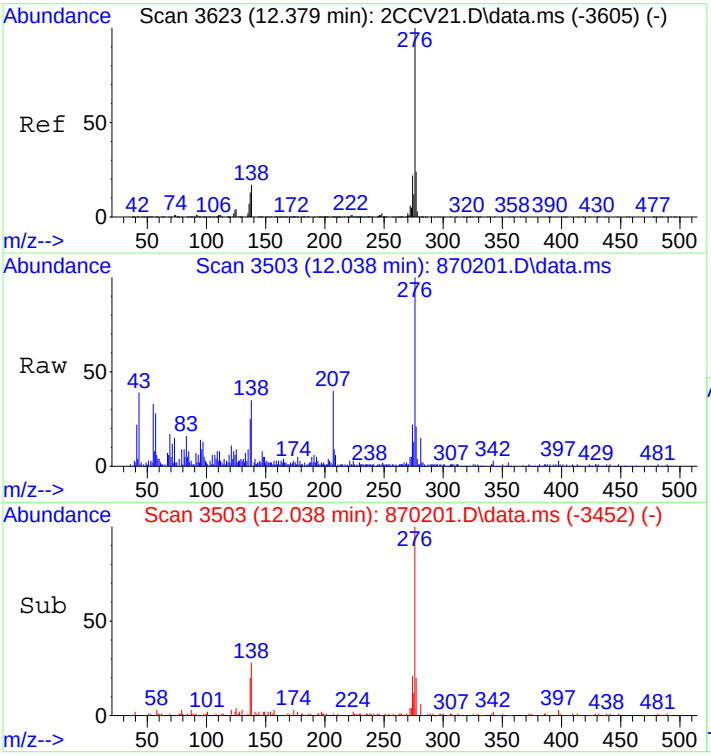


#90
Dib[ah]anthr
Concen: 0.33 ug/mL
RT: 11.785 min Scan# 3414
Delta R.T. -0.008 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:278 Resp: 20623

Ion	Ratio	Lower	Upper
278	100		
139	17.5	0.0	50.7
279	28.3	0.0	54.3

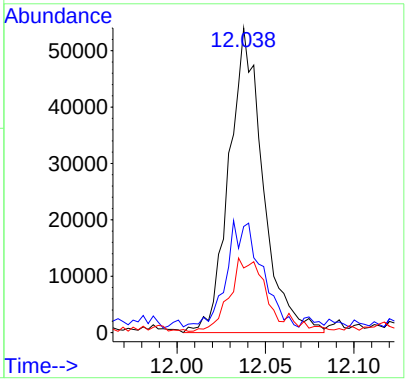


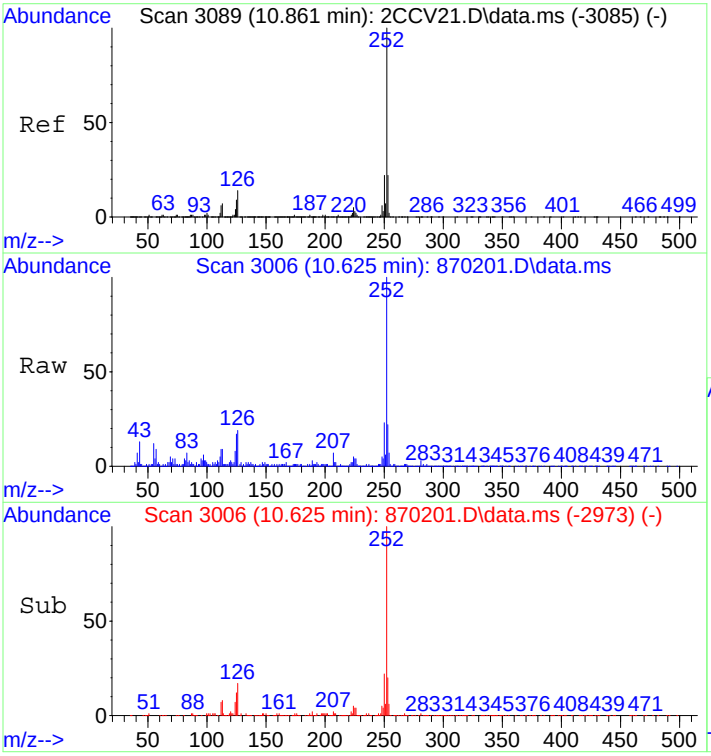


#91
B[ghi]perylen
Concen: 1.14 ug/mL
RT: 12.038 min Scan# 3503
Delta R.T. -0.006 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:276 Resp: 72052

Ion	Ratio	Lower	Upper
276	100		
138	32.9	0.0	57.5
277	20.2	0.0	53.1

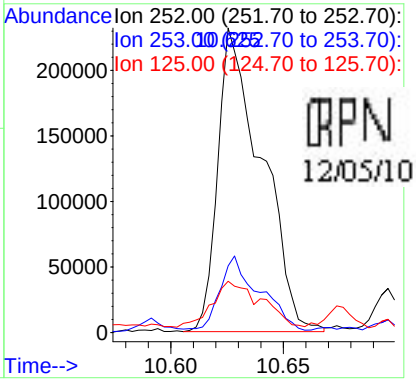




#87
B[k]fluoranth
Concen: 4.05 ug/mL
RT: 10.625 min Scan# 3006
Delta R.T. -0.023 min
Lab File: 870201.D
Acq: 2 Dec 2010 19:45

Tgt Ion:252 Resp: 313742

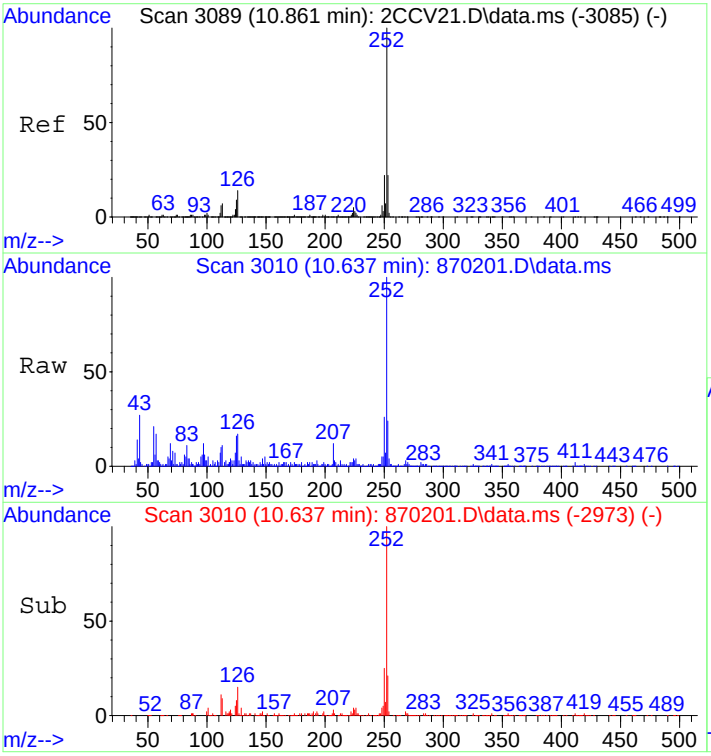
Ion	Ratio	Lower	Upper
252	100		
253	20.8	0.0	50.8
125	13.8	0.0	41.3



RPN
12/05/10

JJY
01/05/11

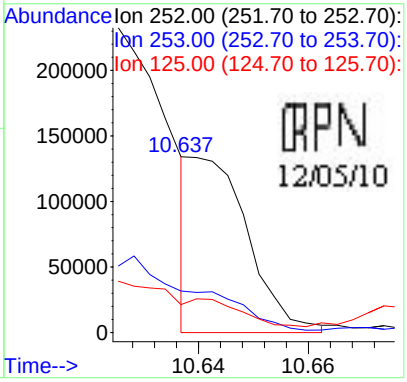
Before Manual Integration



#87
B[k]fluoranth
Concen: 1.25 ug/mL m
RT: 10.637 min Scan# 3010
Delta R.T. -0.011 min
Lab File: 870201.D
Acq: 2 Dec 2010 19:45

Tgt Ion:252 Resp: 96980

Ion	Ratio	Lower	Upper
252	100		
253	23.6	0.0	50.8
125	15.9	0.0	41.3



JJY
01/05/11

After Manual Integration

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\870203.D Vial: 7
Acq On : 2 Dec 2010 20:46 Operator: RPN
Sample : 72180,870203,1 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 13 16:22:45 2010

RPN
12/10/10

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Mon Dec 13 16:15:42 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Manual Integration: Benzo(b)fluoranthene & Benzo(k) fluoranthene. Reason#3

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.428	152	529211	20.00	ug/mL	0.00
21) Naphthalened8	6.070	136	2445901	20.00	ug/mL	0.00
39) Acenaphthened10	7.576	164	1292731	20.00	ug/mL	0.00
63) Phenanthrd10	8.469	188	1931058	20.00	ug/mL	0.00
75) Chrysene-d12	9.932	240	1798654	20.00	ug/mL	0.00
85) Perylene-d12	10.901	264	1576756	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	3.186	112	997409	75.71	%REC	0.03
Spiked Amount 100.000	Range 20 - 110		Recovery = 75.71%			
7) SURRPhenol-d5	3.999	99	1288672	81.43	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 81.43%			
22) SURRNitrbenzened5	5.121	82	447957	75.89	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 75.89%			
44) SURR2Flbiphenyl	7.091	172	1299421	76.83	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 76.83%			
62) SURR246Tribrphenl	8.094	330	328918	84.15	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 84.15%			
78) SURRTerphenyl-d14	9.273	244	1057089	80.91	ug/mL	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 80.91%			
Target Compounds						Qvalue
2) Ntrsdimeth	2.399	74	635	0.0338	ug/mL#	5
6) bis2Clethletr	4.101	93	12840	0.4055	ug/mL#	42
8) Phenol	4.010	94	6363	0.1631	ug/mL#	1
12) 12Diclbenz	4.618	146	5743	0.1452	ug/mL	81
13) Benzyl alcoho	4.550	108	387	0.9205	ug/mL#	60
14) bis2clispreth	4.772	45	1922	0.0319	ug/mL	63
15) 2Methylphenol	4.718	108	2739	0.0918	ug/mL#	6
17) Acetophenone	4.920	105	4586	0.1030	ug/mL#	51
18) Hexaclethane	5.082	117	342	0.0246	ug/mL#	36
19) N-Ntrsdinprop	4.920	70	731	0.0367	ug/mL	68
27) bis2clethoxym	5.857	93	1637	0.0357	ug/mL#	30
30) Benzoic acid	5.761	105	65849	5.3887	ug/mL	85
31) Naphthalene	6.093	128	28870	0.2313	ug/mL	93
32) 4-Cl-aniline	6.096	127	3415	0.0729	ug/mL#	35
36) 4Cl3methylphe	6.664	107	1666	0.0546	ug/mL#	44
37) 2Methylnaphth	6.781	141	19128	0.2745	ug/mL	89
38) 1Methylnaphth	6.863	141	16481	0.2279	ug/mL	88
43) 245Triclpheno	7.054	196	536	0.0223	ug/mL	73
46) 2Nitroaniline	7.272	65	2913	0.1671	ug/mL#	38
47) Acnaphthylene	7.474	152	8519	0.0666	ug/mL	88
48) Dimethylphtha	7.392	163	3134	0.0357	ug/mL	48
49) 26Dinitrotolu	7.432	165	3178	0.1674	ug/mL#	27
50) Acenaphthene	7.596	153	8806	0.1095	ug/mL	96
51) 3Nitroaniline	7.565	138	3750	0.1846	ug/mL#	1
52) 24Dinitphenol	7.662	184	421	2.4091	ug/mL#	1
53) Dibenzofuran	7.713	168	16175	0.1545	ug/mL	80
55) 4-Nitrophenol	7.647	109	2617	0.4020	ug/mL#	40
58) Fluorene	7.937	166	11955	0.1417	ug/mL	96
60) Diethylphthal	7.858	149	24904	0.2812	ug/mL	89
61) 4Nitroaniline	7.932	138	2479	0.1243	ug/mL#	52
65) Ntrsdiphlam&Diphlam	8.091	169	9482	0.1653	ug/mL#	42
66) Azobenz&12Diphlhyd	8.040	182	10345	0.4774	ug/mL#	1
70) Phenanthrene	8.477	178	242556	2.3689	ug/mL	98
71) Anthracene	8.503	178	37682	0.3630	ug/mL	98

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\870203.D Vial: 7
Acq On : 2 Dec 2010 20:46 Operator: RPN
Sample : 72180,870203,1 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 13 16:22:45 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Mon Dec 13 16:15:42 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

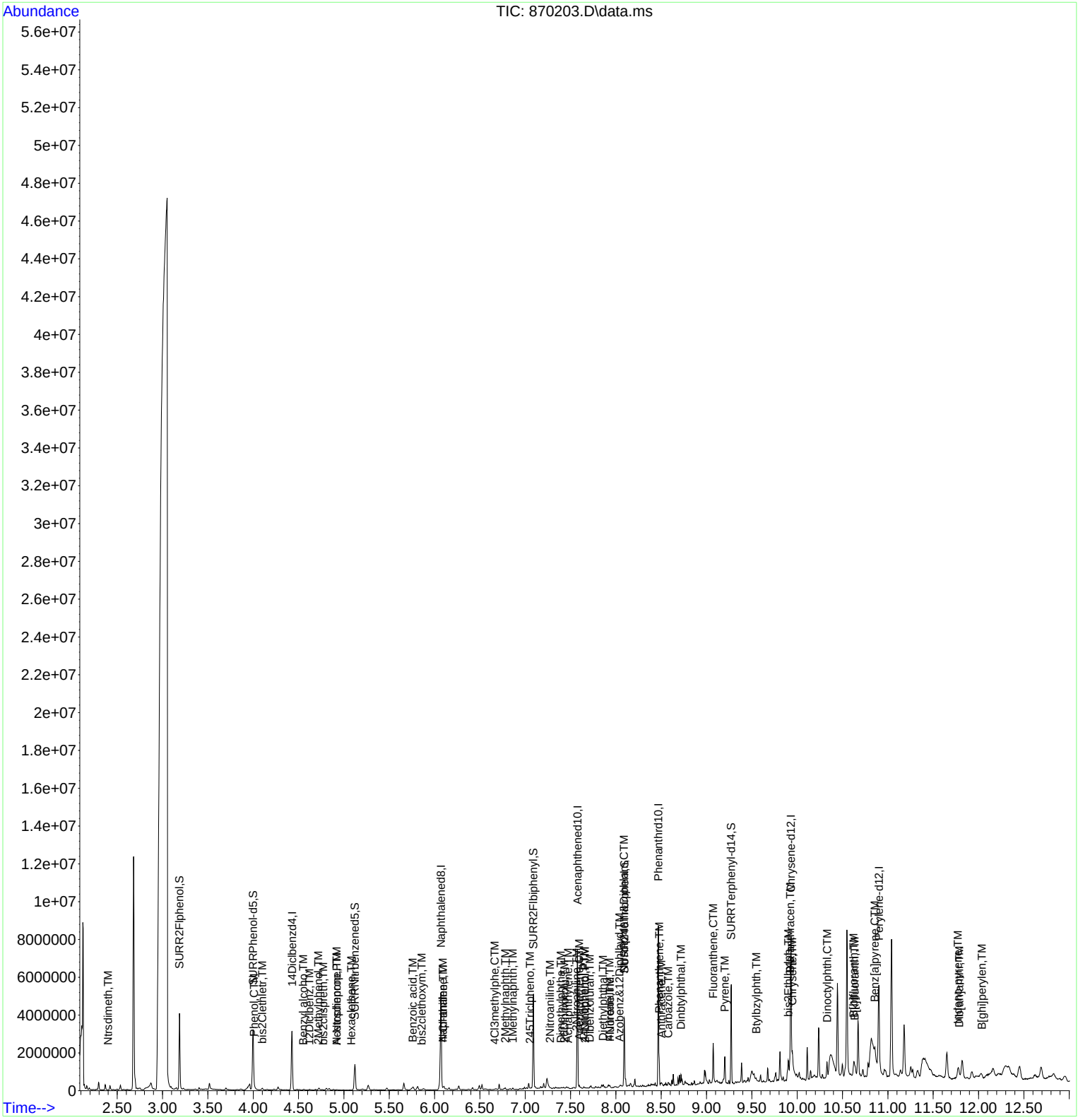
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
72) Carbazole	8.577	167	31050	0.3531 ug/mL	96
73) Dinbtylphthal	8.719	149	109313	0.9206 ug/mL	99
74) Fluoranthene	9.074	202	476942	4.6159 ug/mL	96
76) Benzidine	9.273	184	12529	Below Cal	96
77) Pyrene	9.202	202	375707	3.5028 ug/mL	97
79) Btylbzylphth	9.548	149	3837	0.0736 ug/mL	83
81) B[a]anthracen	9.923	228	173394	1.7334 ug/mL	98
82) Chrysene	9.946	228	193680	2.0208 ug/mL	95
83) bis2Ethlhxlph	9.904	149	215101	2.8378 ug/mL	98
84) Dinoctylphthl	10.333	149	12420	0.0922 ug/mL	75
86) B[b]fluoranth	10.622	252	227435m	2.4488 ug/mL	
87) B[k]fluoranth	10.634	252	96770m	1.1030 ug/mL	
88) Benz[a]pyrene	10.855	252	141446	1.6686 ug/mL	88
89) Indeno-pyrene	11.773	276	79160	0.9197 ug/mL	81
90) Dib[ah]anthr	11.787	278	19216	0.2751 ug/mL	86
91) B[ghi]perylen	12.037	276	71267	0.9968 ug/mL	90

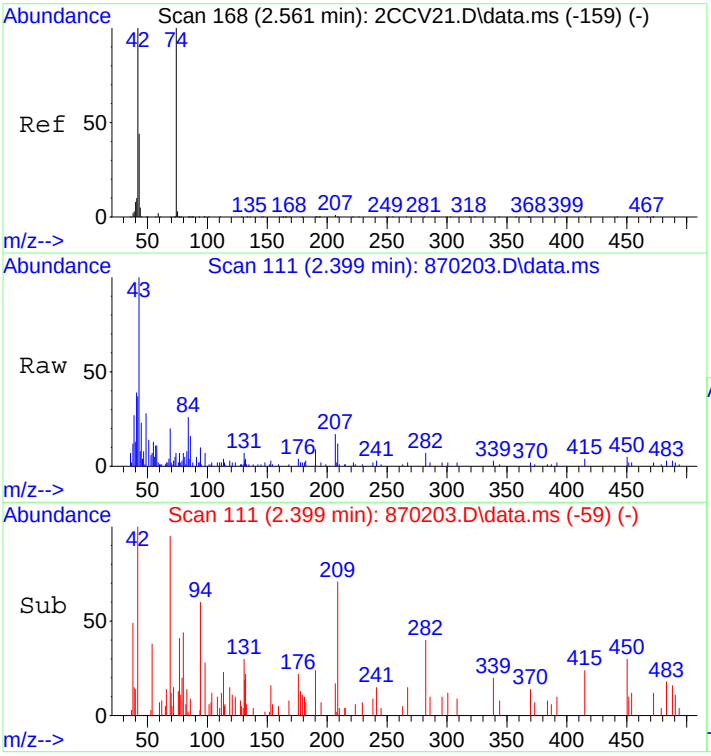
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\870203.D Vial: 7
Acq On : 2 Dec 2010 20:46 Operator: RPN
Sample : 72180,870203,1 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 13 16:22:45 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Mon Dec 13 16:15:42 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

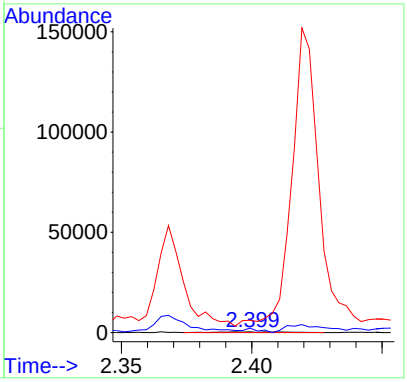


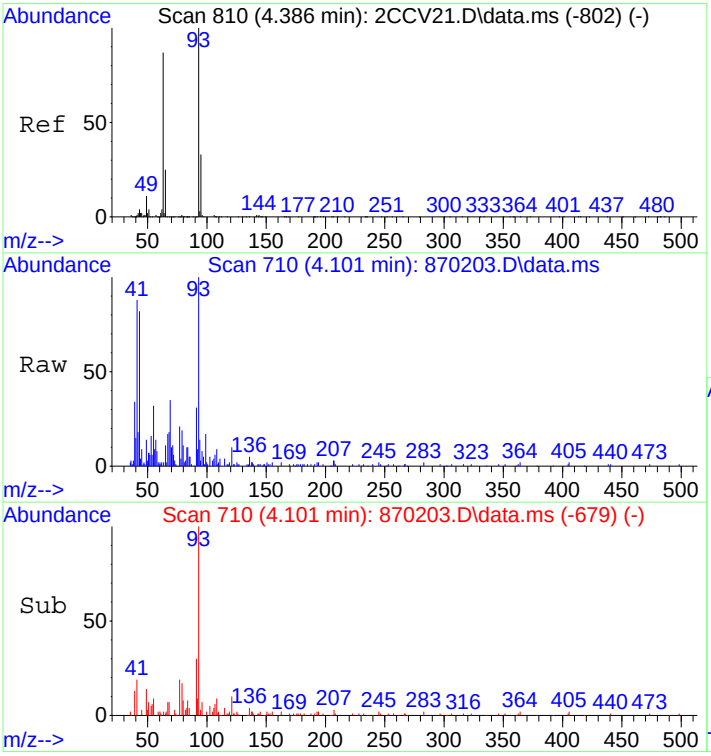


#2
Ntrsdimeth
Concen: 0.03 ug/mL
RT: 2.399 min Scan# 111
Delta R.T. 0.028 min
Lab File: 870203.D
Acq: 2 Dec 10 8:46 pm

Tgt Ion: 74 Resp: 635

Ion	Ratio	Lower	Upper
74	100		
42	0.0	82.4	142.4#
43	0.0	17.7	77.7#

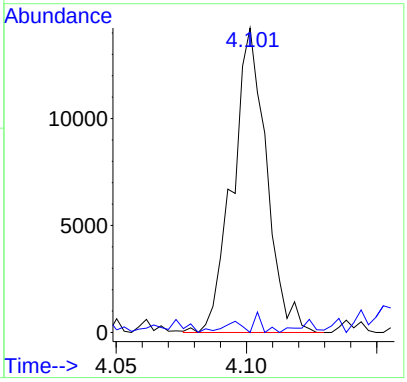


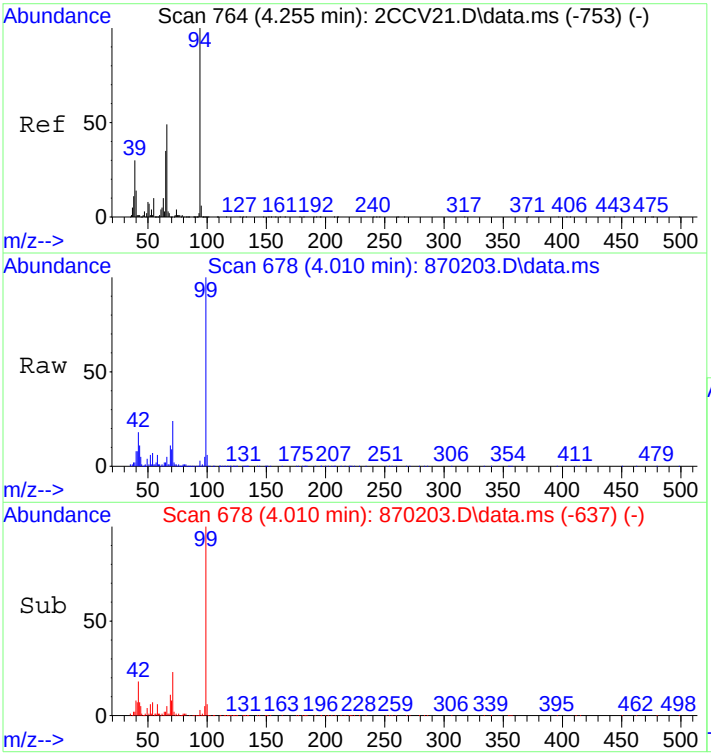


#6
bis2Clethletr
Concen: 0.41 ug/mL
RT: 4.101 min Scan# 710
Delta R.T. -0.026 min
Lab File: 870203.D
Acq: 2 Dec 10 8:46 pm

Tgt Ion: 93 Resp: 12840

Ion	Ratio	Lower	Upper
93	100		
95	0.0	2.4	62.4#

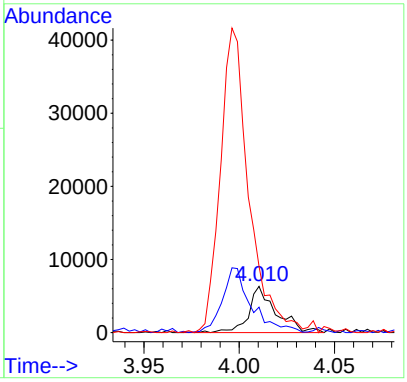


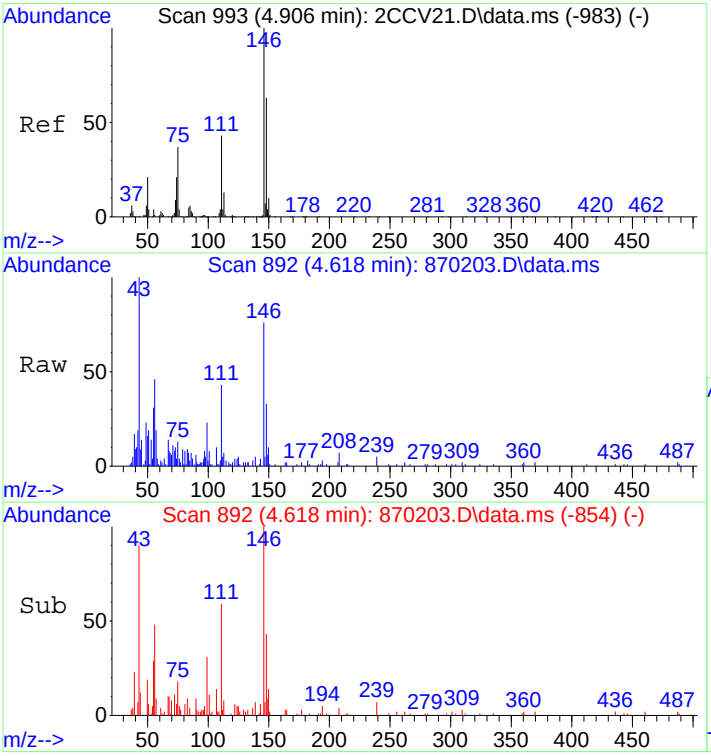


#8
Phenol
Concen: 0.16 ug/mL
RT: 4.010 min Scan# 678
Delta R.T. 0.003 min
Lab File: 870203.D
Acq: 2 Dec 10 8:46 pm

Tgt Ion: 94 Resp: 6363

Ion	Ratio	Lower	Upper
94	100		
65	52.0	1.0	61.0
66	141.7	8.1	68.1#

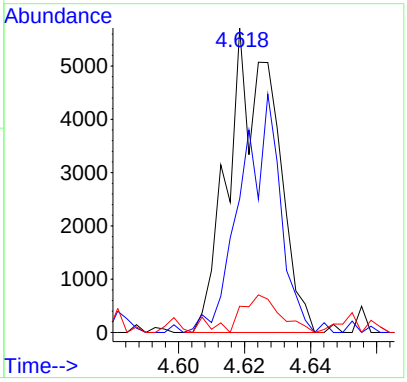


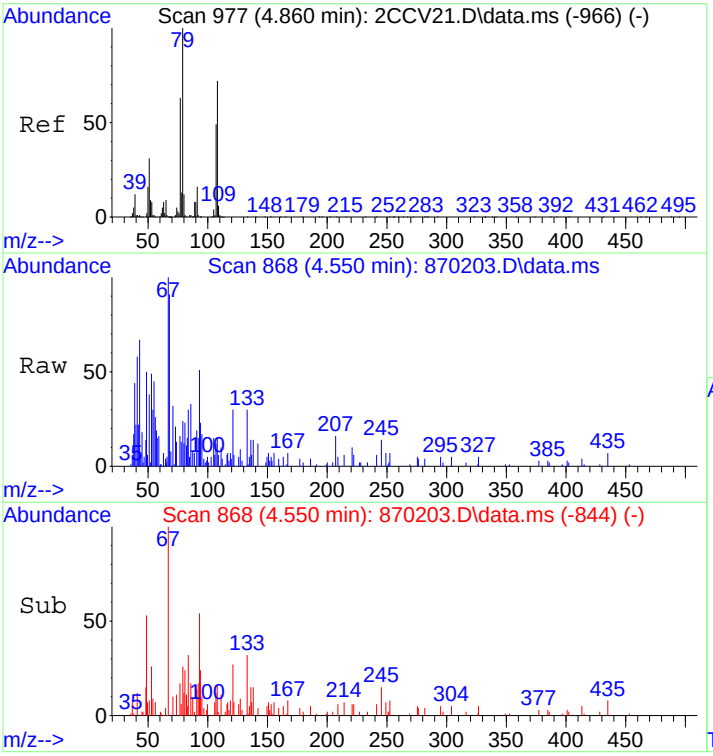


#12
12Diclbenz
Concen: 0.15 ug/mL
RT: 4.618 min Scan# 892
Delta R.T. -0.006 min
Lab File: 870203.D
Acq: 2 Dec 10 8:46 pm

Tgt Ion:146 Resp: 5743

Ion	Ratio	Lower	Upper
146	100		
148	43.9	29.2	89.2
113	7.6	0.0	42.9

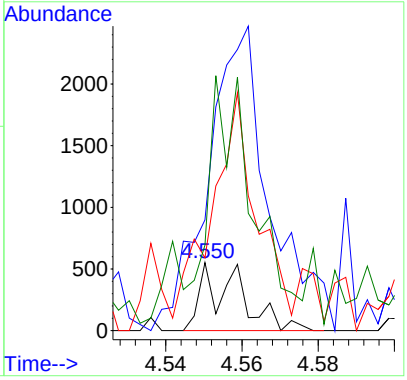


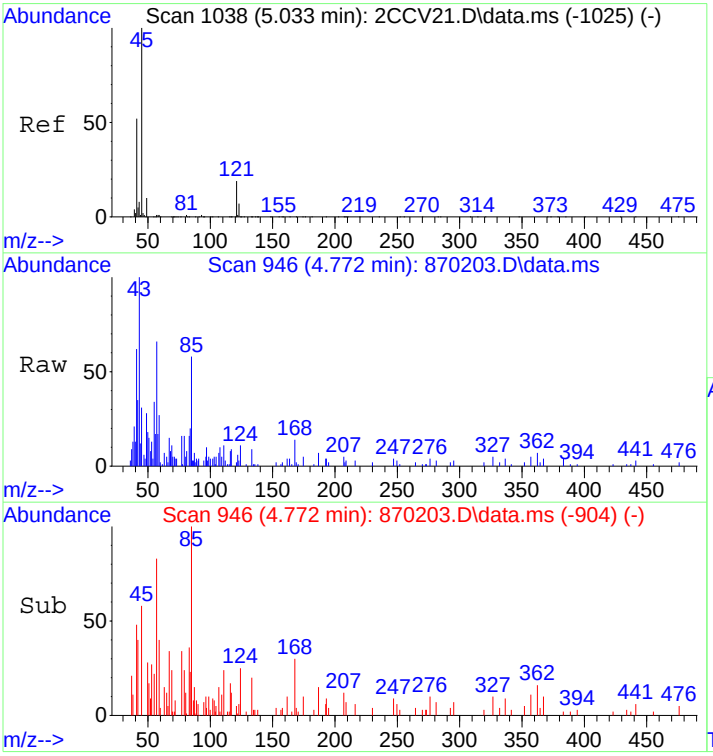


#13
Benzyl alcoho
Concen: 0.92 ug/mL
RT: 4.550 min Scan# 868
Delta R.T. -0.046 min
Lab File: 870203.D
Acq: 2 Dec 10 8:46 pm

Tgt Ion:108 Resp: 387

Ion	Ratio	Lower	Upper
108	100		
79	92.8	104.2	164.2#
77	93.5	55.1	115.1
91	116.5	0.0	50.3#

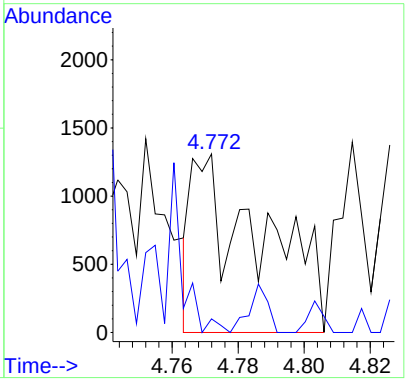


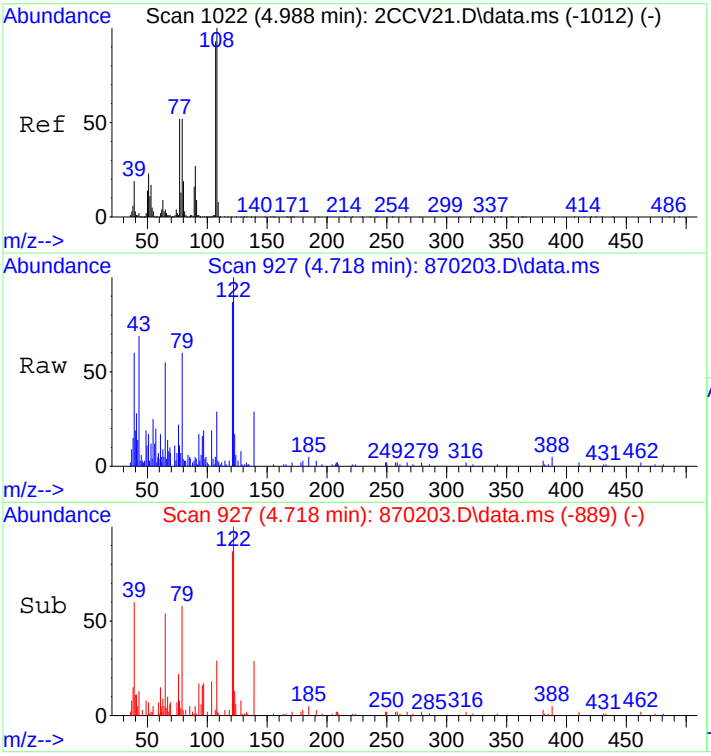


#14
bis2clispreth
Concen: 0.03 ug/mL
RT: 4.772 min Scan# 946
Delta R.T. 0.006 min
Lab File: 870203.D
Acq: 2 Dec 10 8:46 pm

Tgt Ion: 45 Resp: 1922

Ion	Ratio	Lower	Upper
45	100		
121	0.0	0.0	45.3

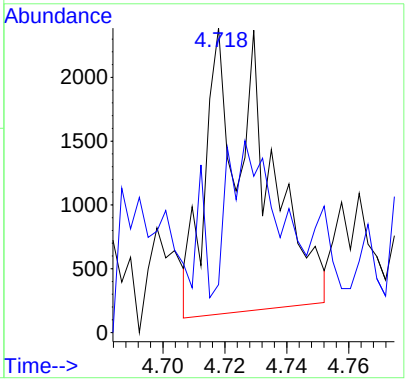


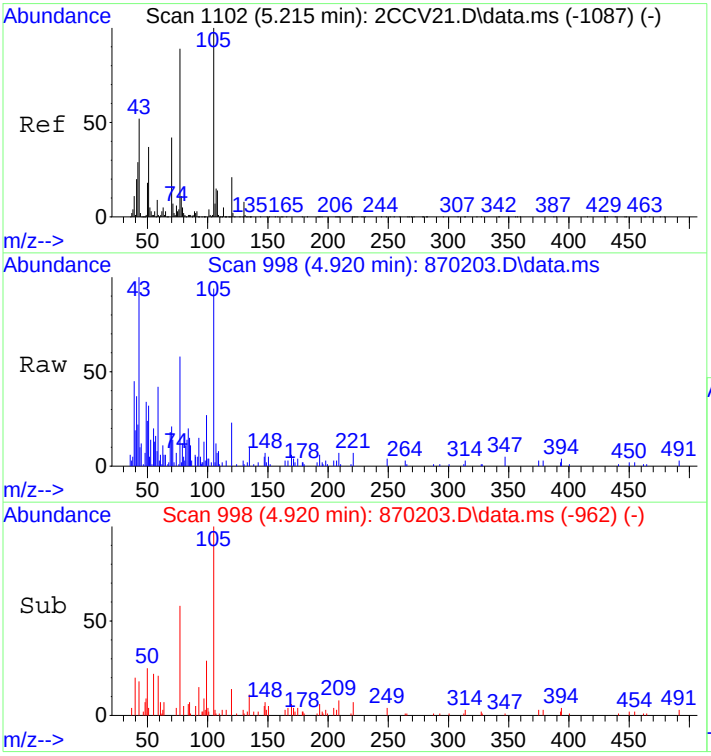


#15
2Methylphenol
Concen: 0.09 ug/mL
RT: 4.718 min Scan# 927
Delta R.T. -0.006 min
Lab File: 870203.D
Acq: 2 Dec 10 8:46 pm

Tgt Ion:108 Resp: 2739

Ion	Ratio	Lower	Upper
108	100		
107	0.0	57.3	117.3#

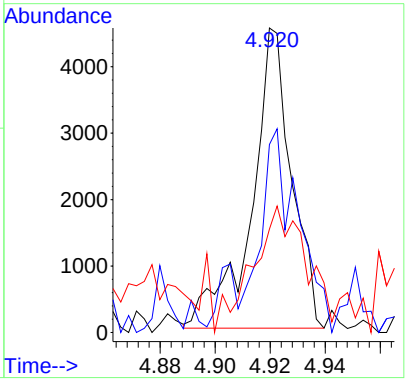


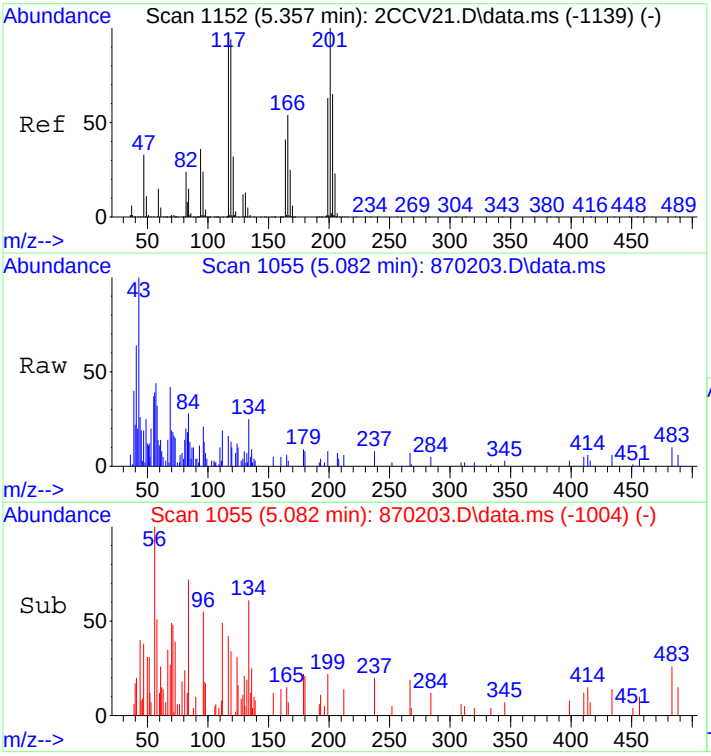


#17
Acetophenone
Concen: 0.10 ug/mL
RT: 4.920 min Scan# 998
Delta R.T. -0.011 min
Lab File: 870203.D
Acq: 2 Dec 10 8:46 pm

Tgt Ion:105 Resp: 4586

Ion	Ratio	Lower	Upper
105	100		
77	63.3	72.2	132.2#
51	0.0	18.8	78.8#

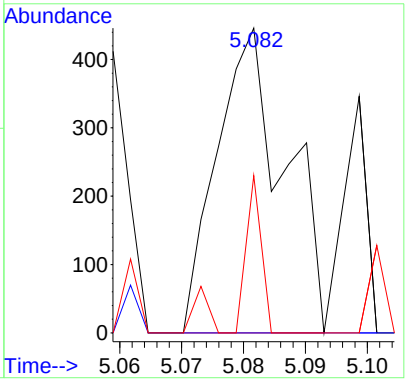


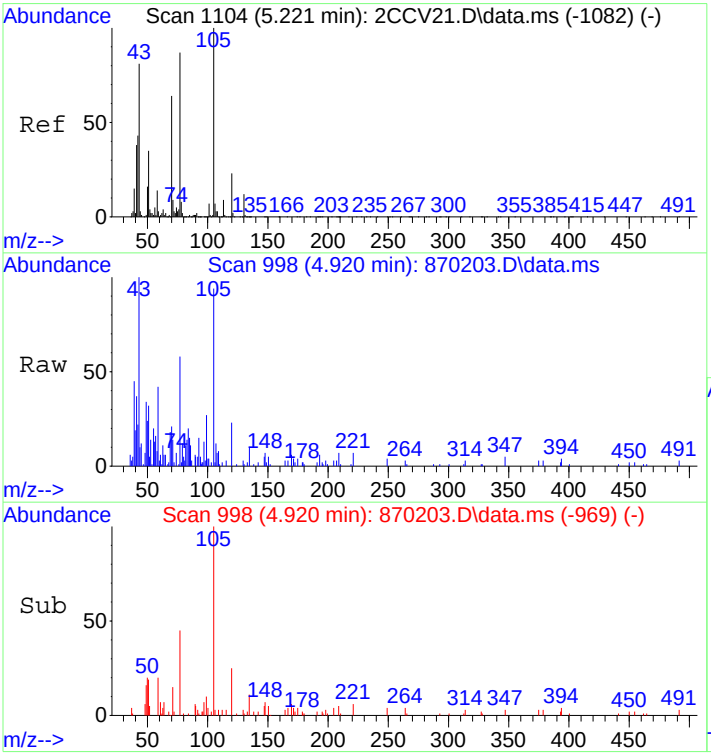


#18
Hexaclethane
Concen: 0.02 ug/mL
RT: 5.082 min Scan# 1055
Delta R.T. 0.031 min
Lab File: 870203.D
Acq: 2 Dec 10 8:46 pm

Tgt Ion:117 Resp: 342

Ion	Ratio	Lower	Upper
117	100		
201	0.0	64.1	124.1#
199	51.6	28.3	88.3

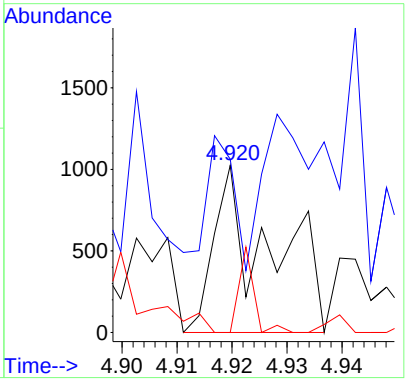


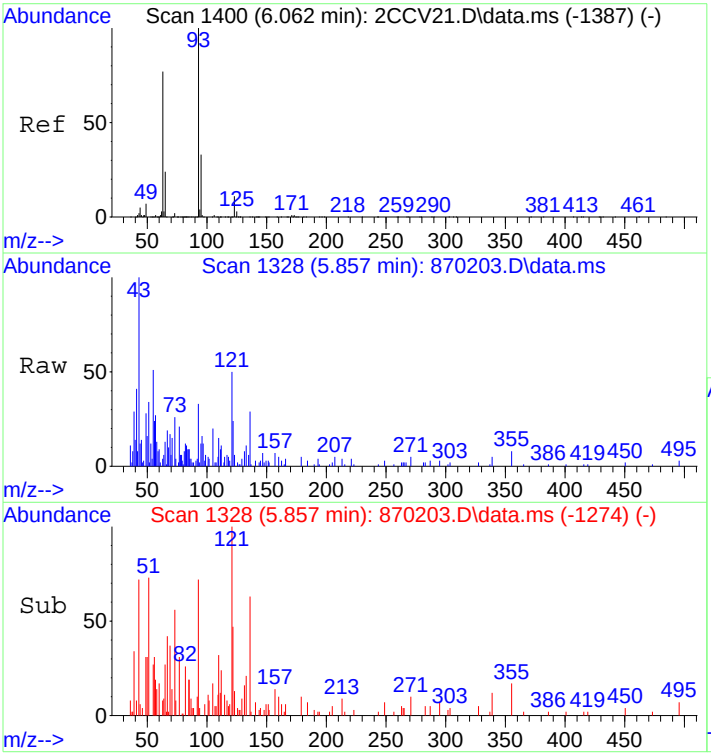


#19
N-Ntrsdinprop
Concen: 0.04 ug/mL
RT: 4.920 min Scan# 998
Delta R.T. -0.017 min
Lab File: 870203.D
Acq: 2 Dec 10 8:46 pm

Tgt Ion: 70 Resp: 731

Ion	Ratio	Lower	Upper
70	100		
42	55.8	54.3	114.3
113	0.0	0.0	43.5

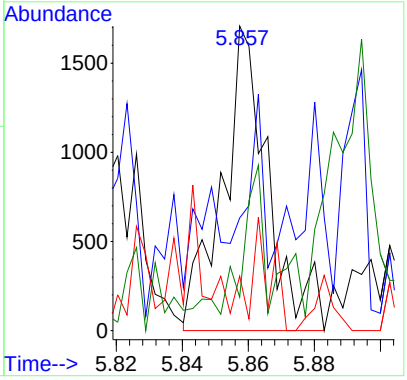


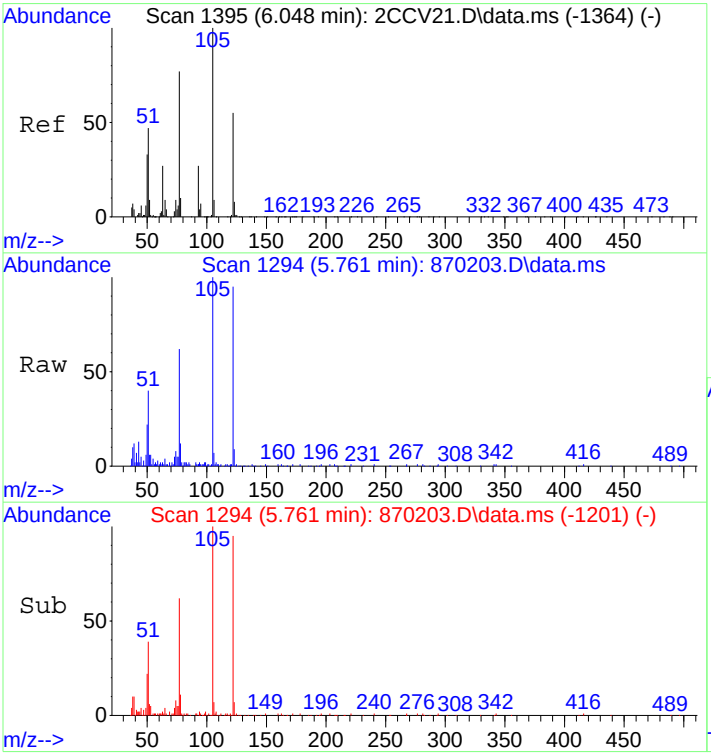


#27
bis2clethoxym
Concen: 0.04 ug/mL
RT: 5.857 min Scan# 1328
Delta R.T. 0.040 min
Lab File: 870203.D
Acq: 2 Dec 10 8:46 pm

Tgt Ion: 93 Resp: 1637

Ion	Ratio	Lower	Upper
93	100		
95	0.0	1.9	61.9#
123	5.3	0.0	42.6
63	4.3	46.9	106.9#

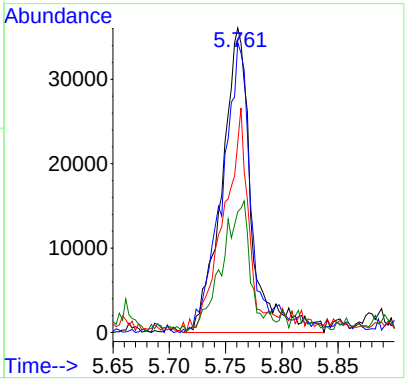


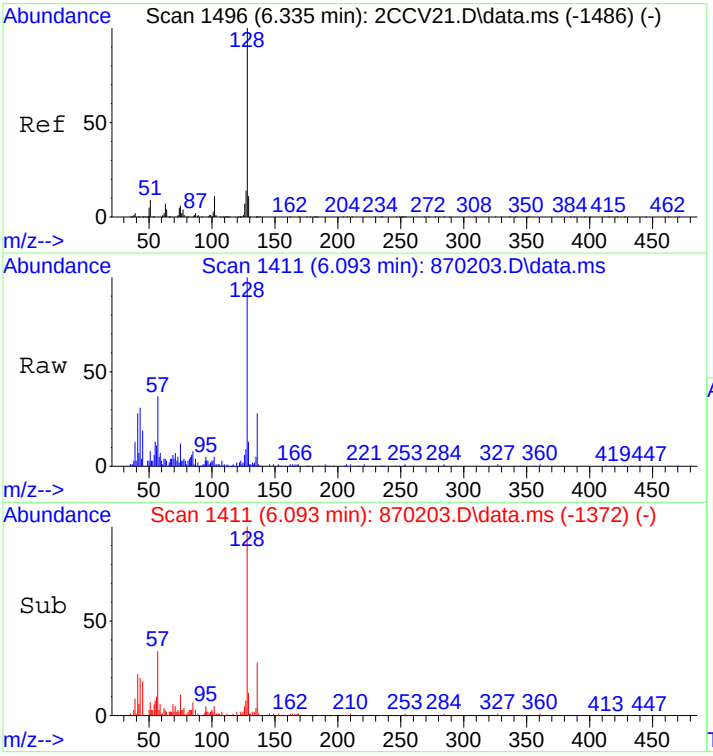


#30
Benzoic acid
Concen: 5.39 ug/mL
RT: 5.761 min Scan# 1294
Delta R.T. -0.009 min
Lab File: 870203.D
Acq: 2 Dec 10 8:46 pm

Tgt Ion:105 Resp: 65849

Ion	Ratio	Lower	Upper
105	100		
122	94.1	54.1	114.1
77	59.8	45.9	105.9
51	37.9	17.6	77.6

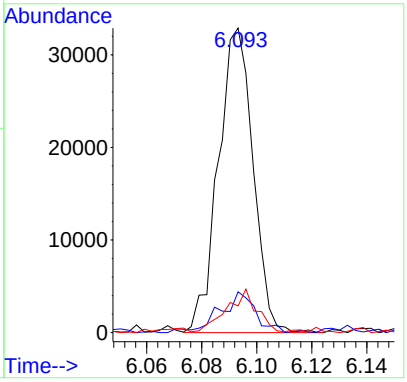


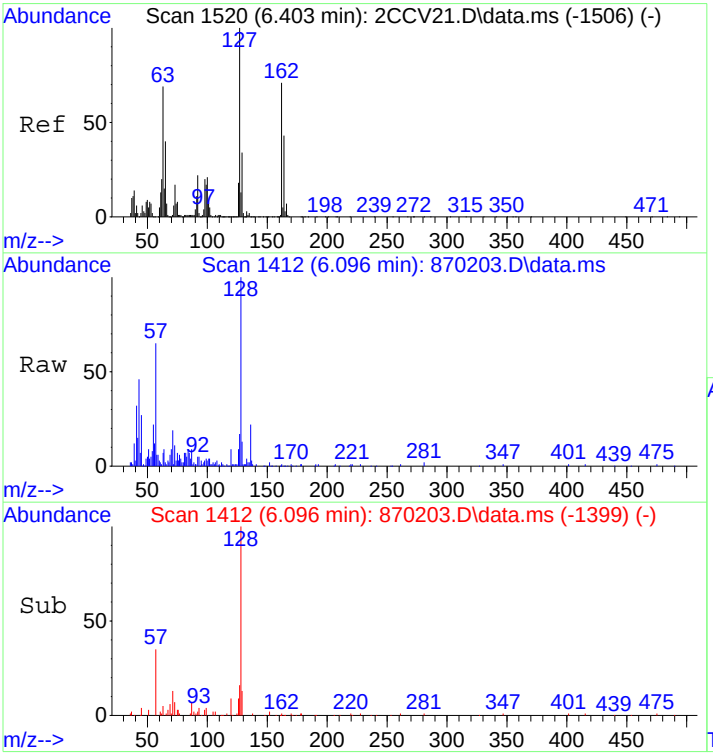


#31
Naphthalene
Concen: 0.23 ug/mL
RT: 6.093 min Scan# 1411
Delta R.T. -0.003 min
Lab File: 870203.D
Acq: 2 Dec 10 8:46 pm

Tgt Ion:128 Resp: 28870

Ion	Ratio	Lower	Upper
128	100		
129	12.3	0.0	40.3
127	8.3	0.0	41.9

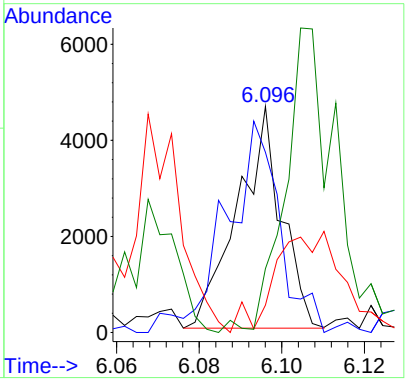


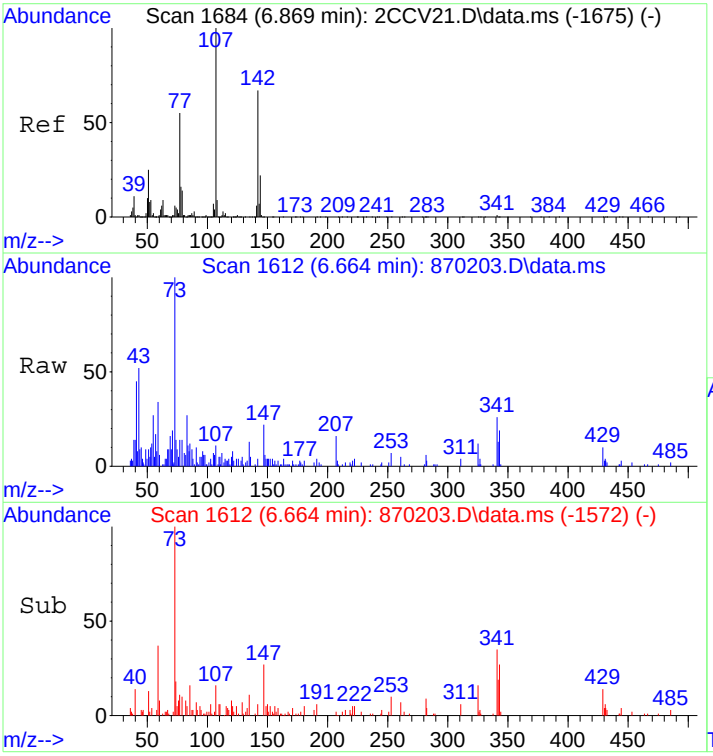


#32
4-Cl-aniline
Concen: 0.07 ug/mL
RT: 6.096 min Scan# 1412
Delta R.T. -0.077 min
Lab File: 870203.D
Acq: 2 Dec 10 8:46 pm

Tgt Ion:127 Resp: 3415

Ion	Ratio	Lower	Upper
127	100		
129	81.3	1.8	61.8#
65	0.0	1.6	61.6#
92	2.3	0.0	48.2

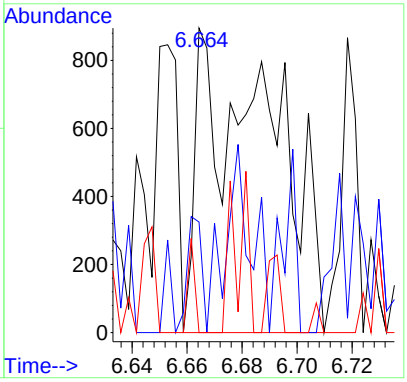


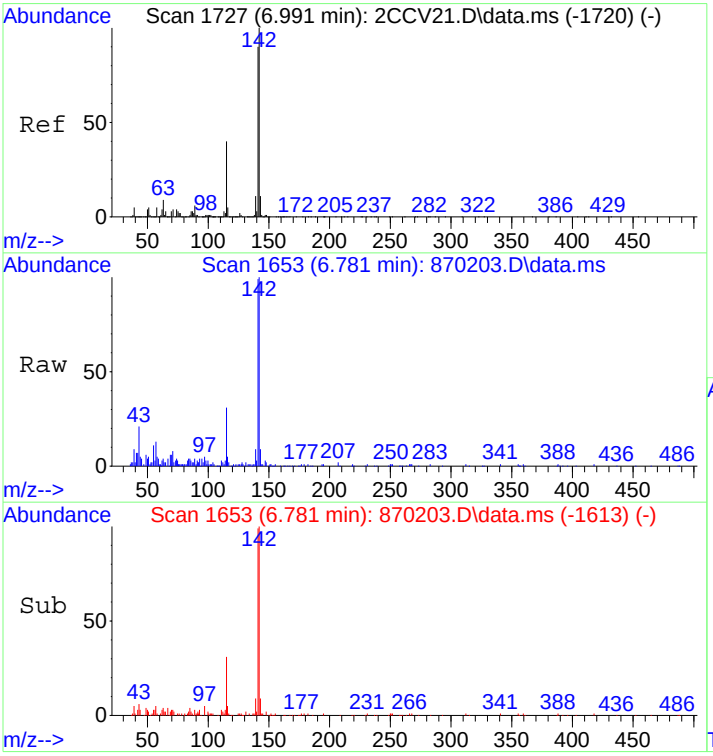


#36
4Cl3methylphe
Concen: 0.05 ug/mL
RT: 6.664 min Scan# 1612
Delta R.T. -0.000 min
Lab File: 870203.D
Acq: 2 Dec 10 8:46 pm

Tgt Ion:107 Resp: 1666

Ion	Ratio	Lower	Upper
107	100		
142	29.8	50.0	110.0#
144	0.0	0.0	56.8

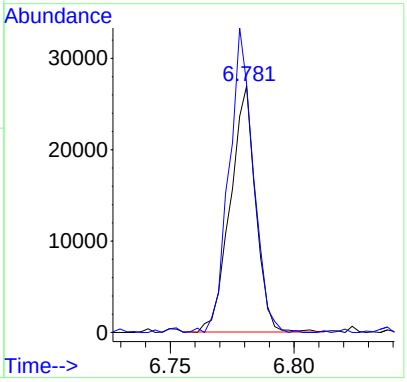


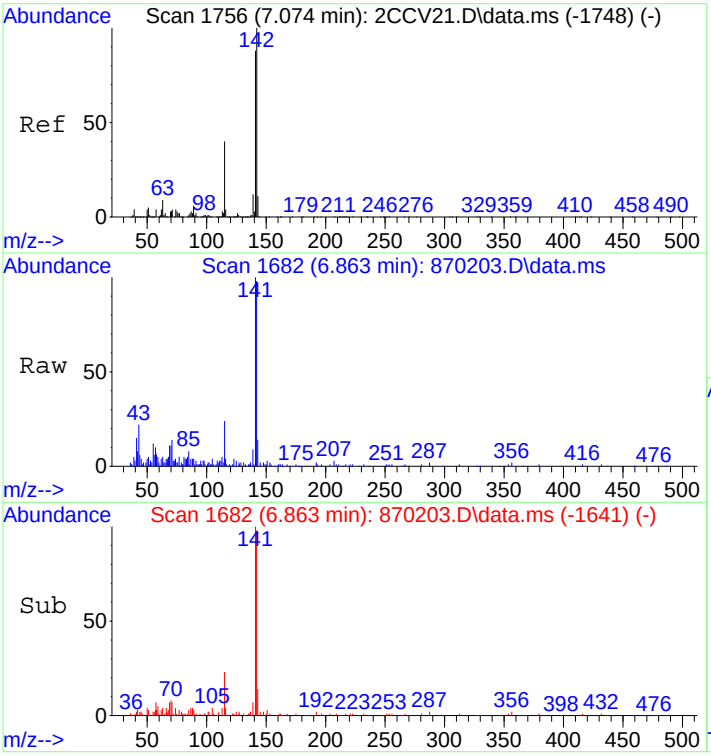


#37
2Methylnaphth
Concen: 0.27 ug/mL
RT: 6.781 min Scan# 1653
Delta R.T. -0.000 min
Lab File: 870203.D
Acq: 2 Dec 10 8:46 pm

Tgt Ion:141 Resp: 19128

Ion	Ratio	Lower	Upper
141	100		
142	101.3	83.7	143.7

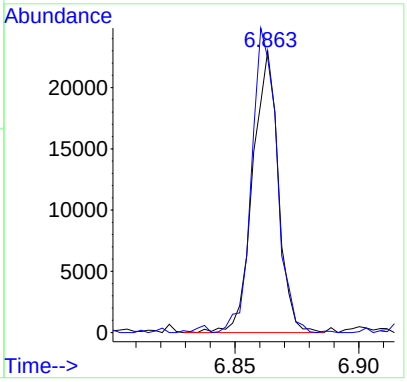


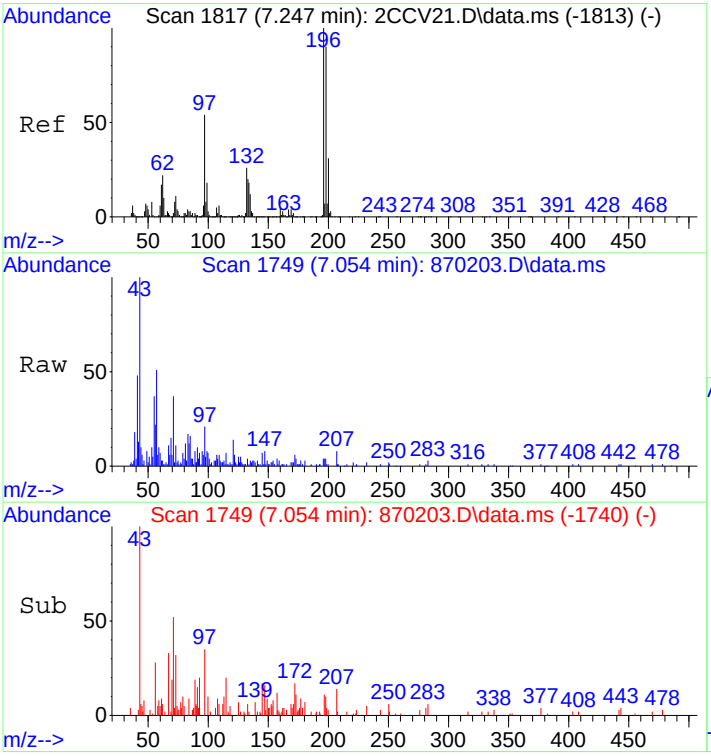


#38
1Methylnaphth
Concen: 0.23 ug/mL
RT: 6.863 min Scan# 1682
Delta R.T. -0.003 min
Lab File: 870203.D
Acq: 2 Dec 10 8:46 pm

Tgt Ion:141 Resp: 16481

Ion	Ratio	Lower	Upper
141	100		
142	97.0	79.5	139.5

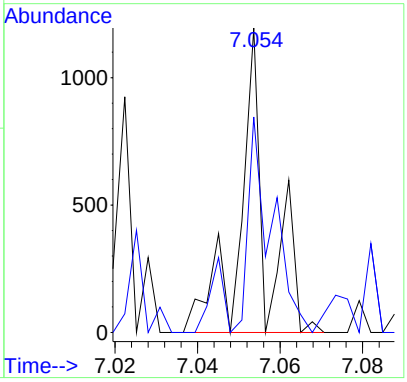


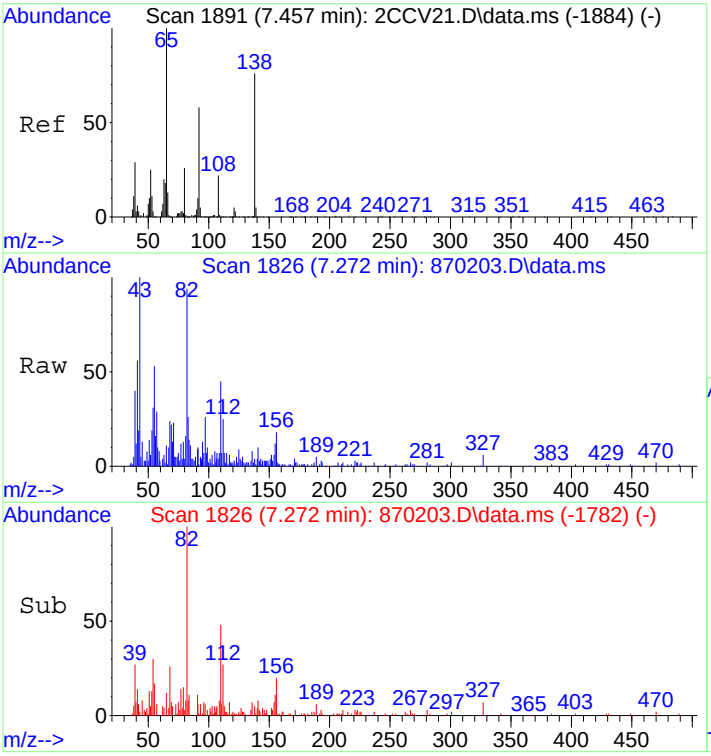


#43
245Triclpheno
Concen: 0.02 ug/mL
RT: 7.054 min Scan# 1749
Delta R.T. 0.006 min
Lab File: 870203.D
Acq: 2 Dec 10 8:46 pm

Tgt Ion:196 Resp: 536

Ion	Ratio	Lower	Upper
196	100		
198	70.8	67.0	127.0

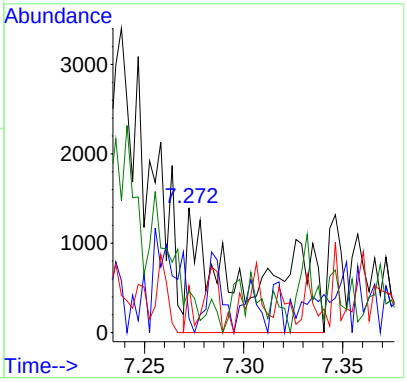


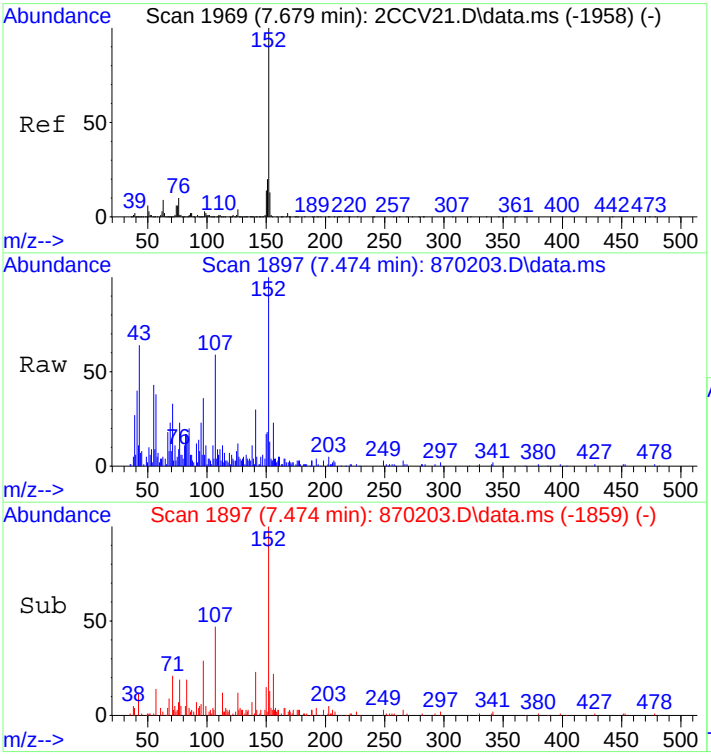


#46
2Nitroaniline
Concen: 0.17 ug/mL
RT: 7.272 min Scan# 1826
Delta R.T. 0.011 min
Lab File: 870203.D
Acq: 2 Dec 10 8:46 pm

Tgt Ion: 65 Resp: 2913

Ion	Ratio	Lower	Upper
65	100		
92	0.0	32.1	92.1#
138	37.7	73.8	133.8#
80	22.8	0.0	55.1

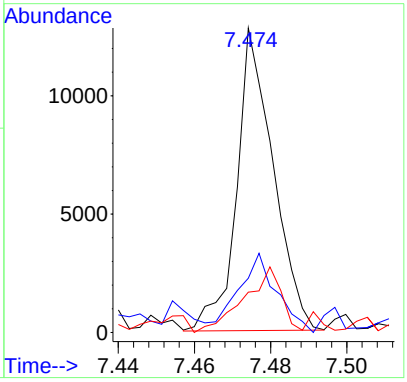


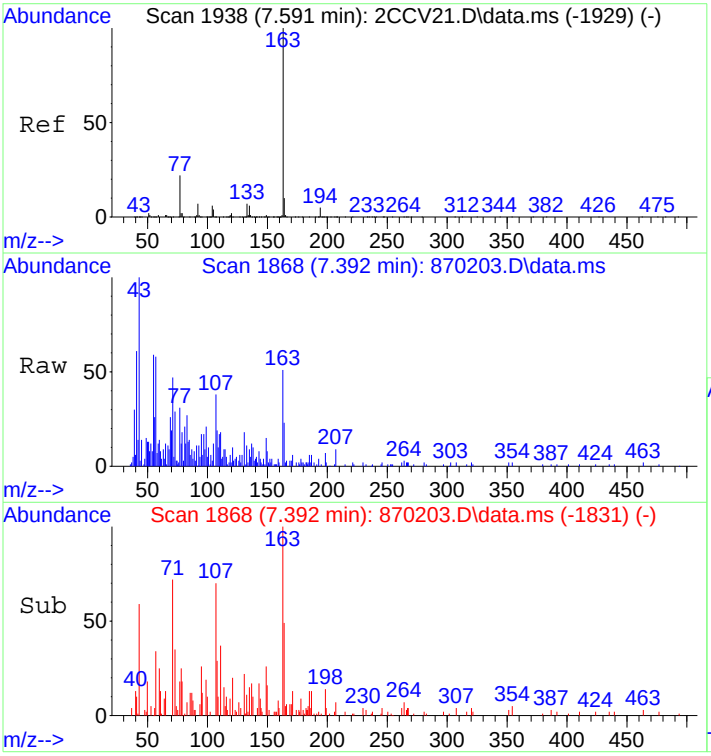


#47
Acnaphthylene
Concen: 0.07 ug/mL
RT: 7.474 min Scan# 1897
Delta R.T. -0.006 min
Lab File: 870203.D
Acq: 2 Dec 10 8:46 pm

Tgt Ion:152 Resp: 8519

Ion	Ratio	Lower	Upper
152	100		
151	12.3	0.0	49.5
153	10.7	0.0	43.0

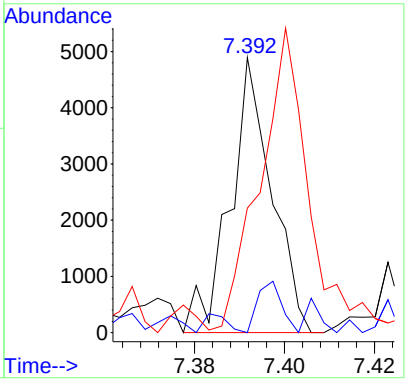


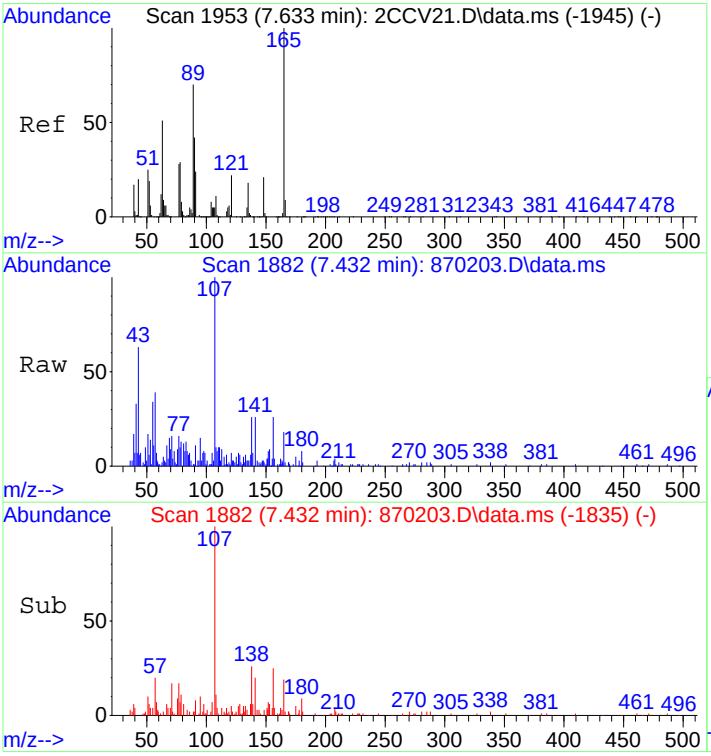


#48
Dimethylphtha
Concen: 0.04 ug/mL
RT: 7.392 min Scan# 1868
Delta R.T. -0.009 min
Lab File: 870203.D
Acq: 2 Dec 10 8:46 pm

Tgt Ion:163 Resp: 3134

Ion	Ratio	Lower	Upper
163	100		
194	0.0	0.0	34.0
164	35.2	0.0	40.3

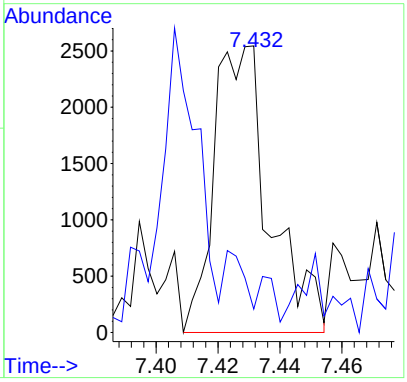


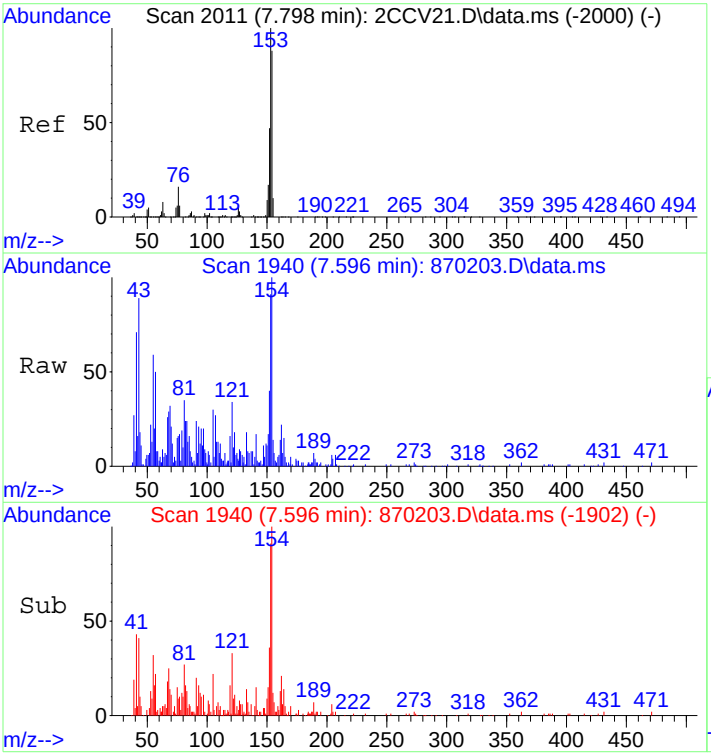


#49
26Dinitrotolu
Concen: 0.17 ug/mL
RT: 7.432 min Scan# 1882
Delta R.T. -0.011 min
Lab File: 870203.D
Acq: 2 Dec 10 8:46 pm

Tgt Ion:165 Resp: 3178

Ion	Ratio	Lower	Upper
165	100		
89	0.0	20.8	80.8#

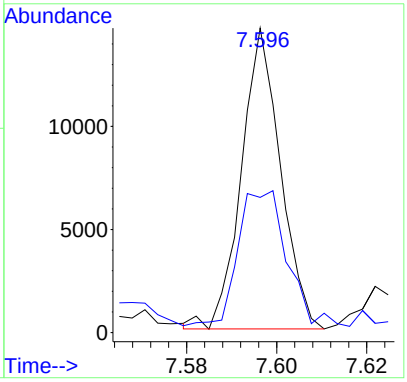


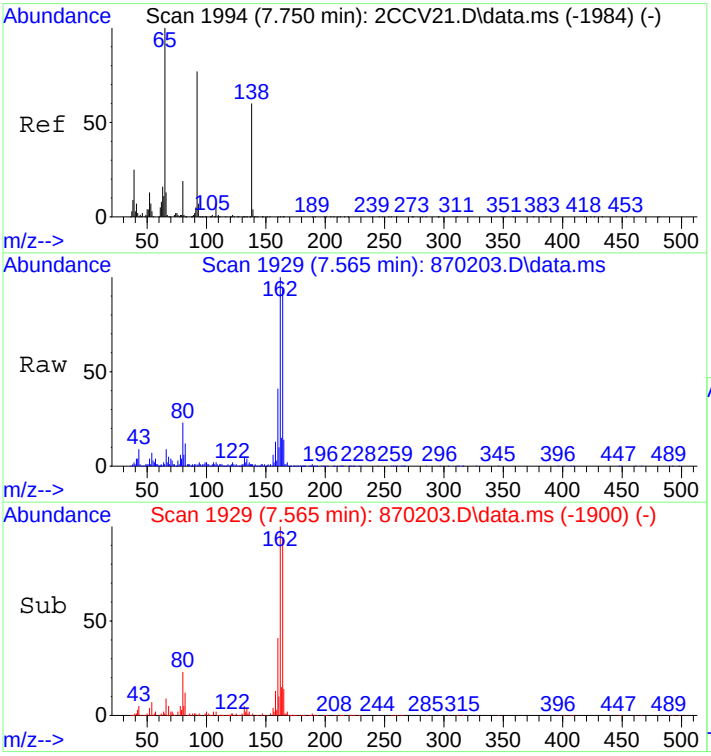


#50
Acenaphthene
Concen: 0.11 ug/mL
RT: 7.596 min Scan# 1940
Delta R.T. -0.006 min
Lab File: 870203.D
Acq: 2 Dec 10 8:46 pm

Tgt Ion:153 Resp: 8806

Ion	Ratio	Lower	Upper
153	100		
152	42.7	15.5	75.5

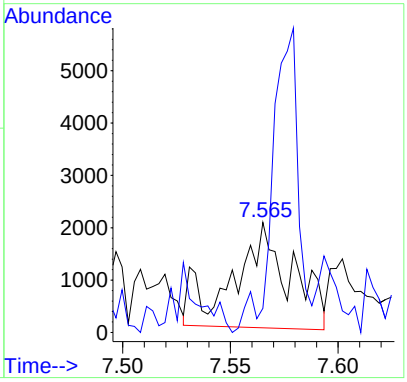


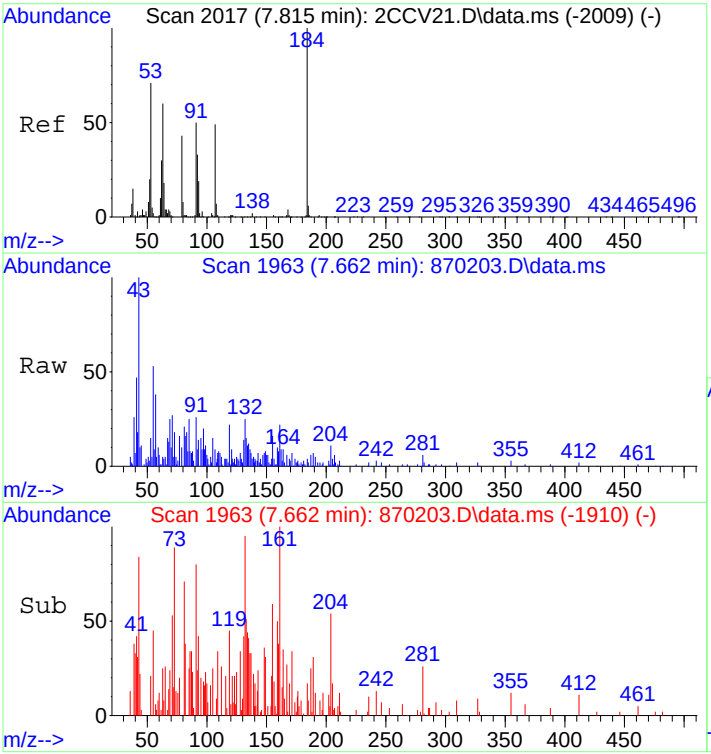


#51
3Nitroaniline
Concen: 0.18 ug/mL
RT: 7.565 min Scan# 1929
Delta R.T. 0.008 min
Lab File: 870203.D
Acq: 2 Dec 10 8:46 pm

Tgt Ion:138 Resp: 3750

Ion	Ratio	Lower	Upper
138	100		
92	0.0	74.6	134.6#

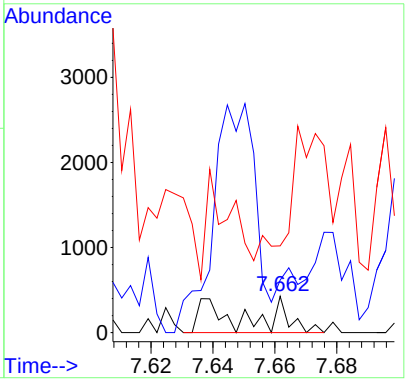


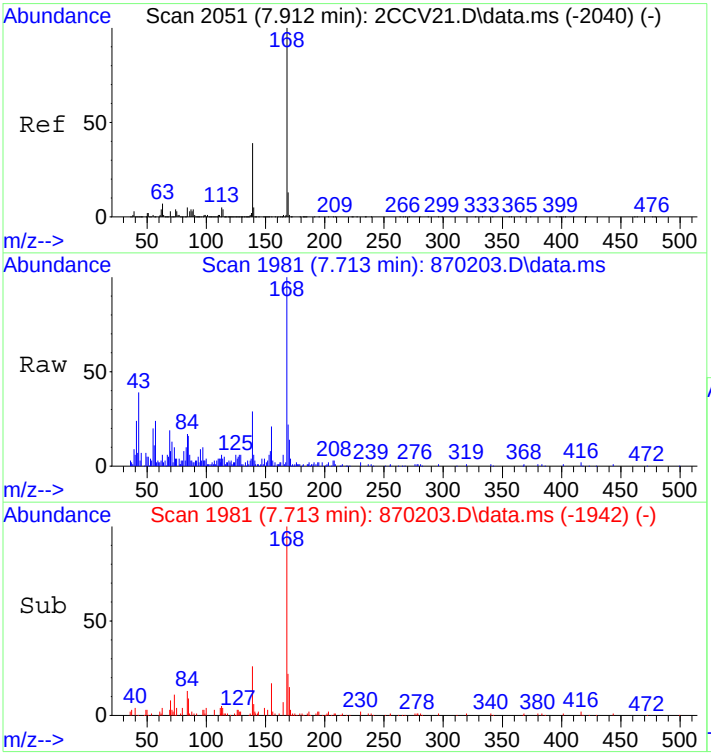


#52
24Dinitphenol
Concen: 2.41 ug/mL
RT: 7.662 min Scan# 1963
Delta R.T. 0.037 min
Lab File: 870203.D
Acq: 2 Dec 10 8:46 pm

Tgt Ion:184 Resp: 421

Ion	Ratio	Lower	Upper
184	100		
63	144.2	44.6	104.6#
107	238.3	13.0	73.0#

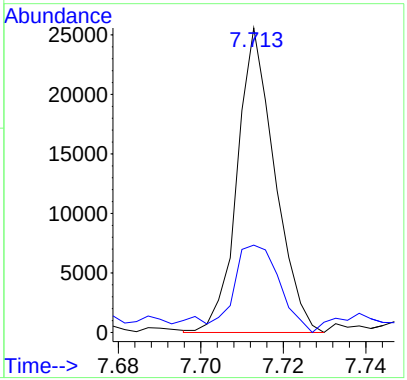


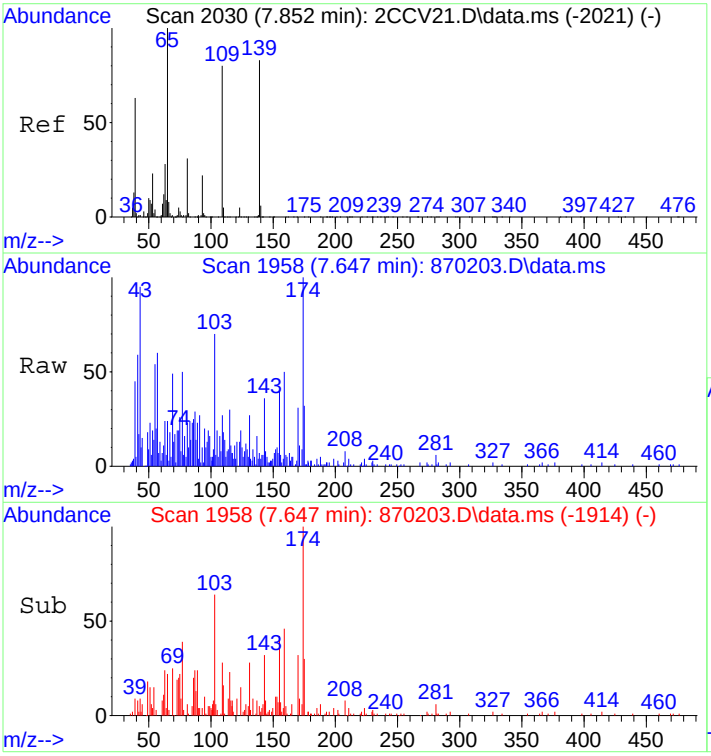


#53
Dibenzofuran
Concen: 0.15 ug/mL
RT: 7.713 min Scan# 1981
Delta R.T. -0.003 min
Lab File: 870203.D
Acq: 2 Dec 10 8:46 pm

Tgt Ion:168 Resp: 16175

Ion	Ratio	Lower	Upper
168	100		
139	25.4	7.1	67.1

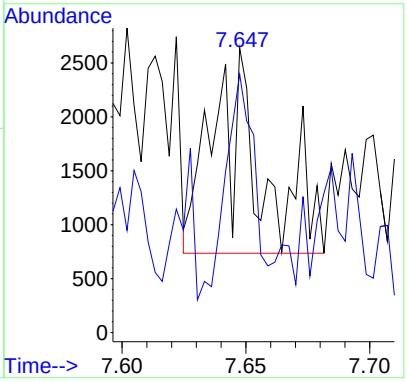


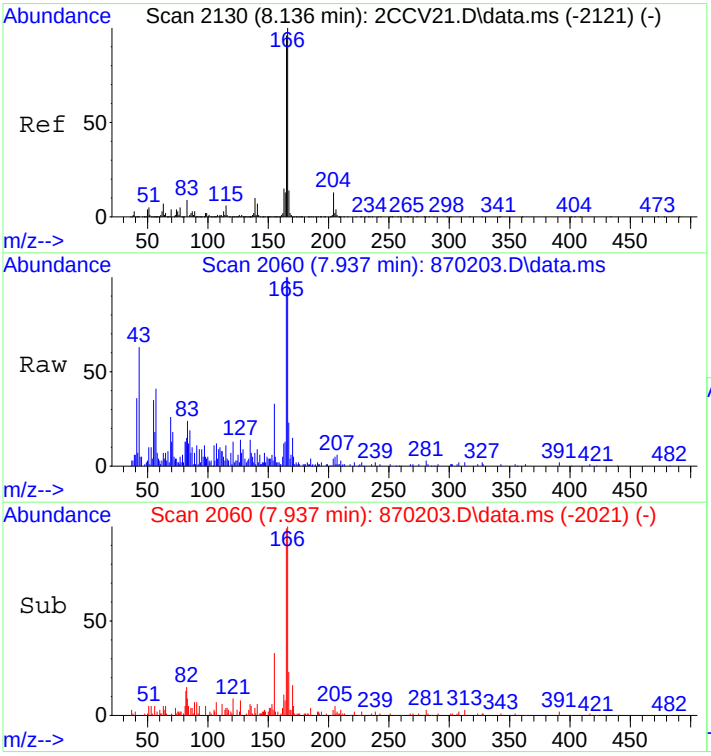


#55
4-Nitrophenol
Concen: 0.40 ug/mL
RT: 7.647 min Scan# 1958
Delta R.T. -0.020 min
Lab File: 870203.D
Acq: 2 Dec 10 8:46 pm

Tgt Ion:109 Resp: 2617

Ion	Ratio	Lower	Upper
109	100		
65	76.0	123.5	183.5#

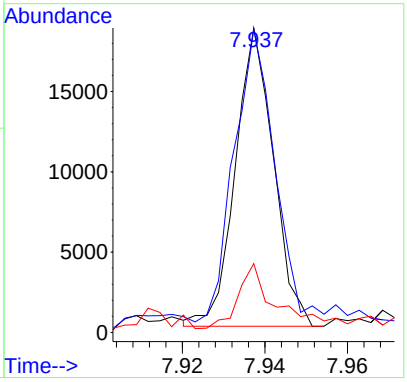


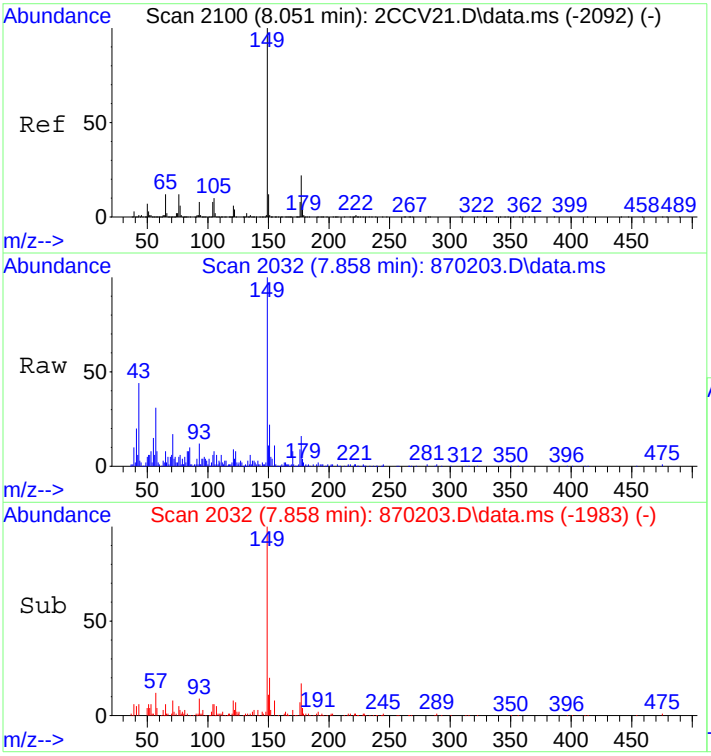


#58
Fluorene
Concen: 0.14 ug/mL
RT: 7.937 min Scan# 2060
Delta R.T. -0.003 min
Lab File: 870203.D
Acq: 2 Dec 10 8:46 pm

Tgt Ion:166 Resp: 11955

Ion	Ratio	Lower	Upper
166	100		
165	96.3	64.5	124.5
167	19.2	0.0	42.6

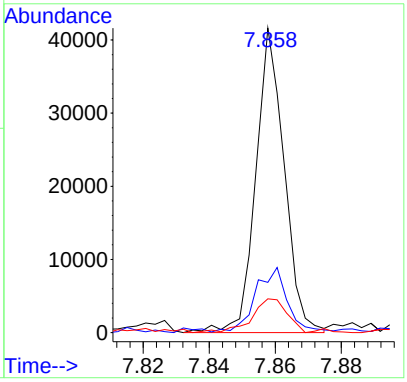


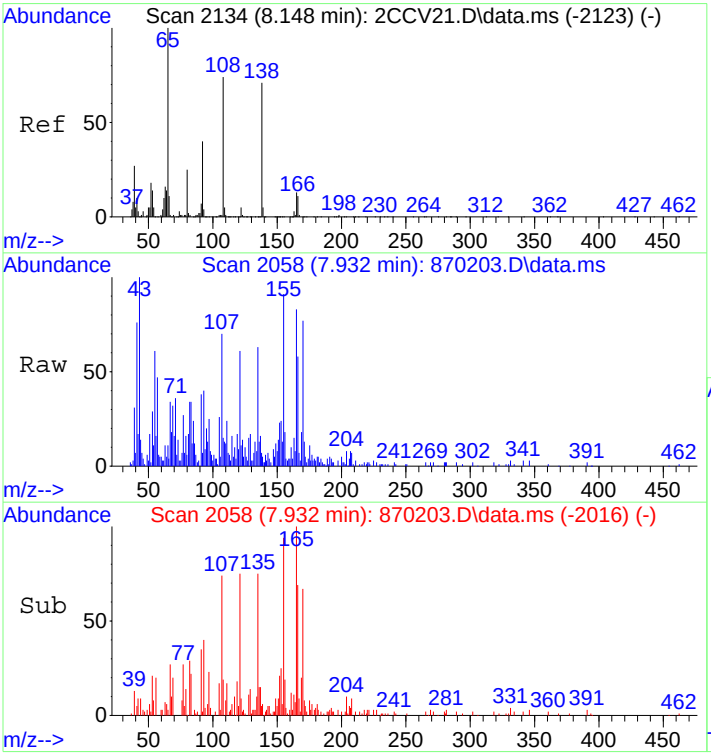


#60
Diethylphthal
Concen: 0.28 ug/mL
RT: 7.858 min Scan# 2032
Delta R.T. -0.006 min
Lab File: 870203.D
Acq: 2 Dec 10 8:46 pm

Tgt Ion:149 Resp: 24904

Ion	Ratio	Lower	Upper
149	100		
177	15.6	0.0	52.2
150	10.0	0.0	42.5

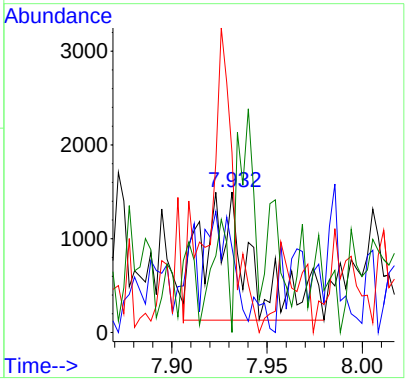


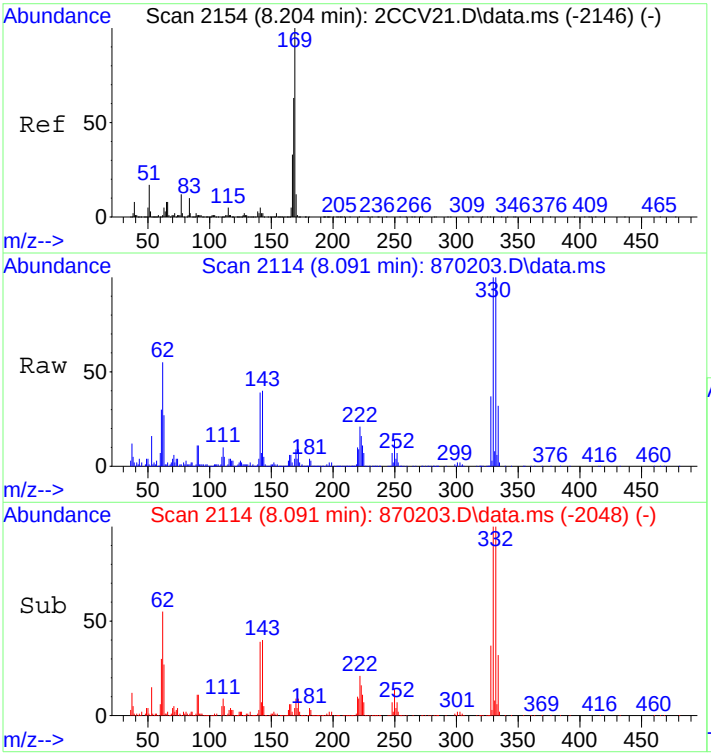


#61
4Nitroaniline
Concen: 0.12 ug/mL
RT: 7.932 min Scan# 2058
Delta R.T. -0.026 min
Lab File: 870203.D
Acq: 2 Dec 10 8:46 pm

Tgt Ion:138 Resp: 2479

Ion	Ratio	Lower	Upper
138	100		
92	43.0	19.9	79.9
108	133.1	39.4	99.4#
139	0.0	0.0	41.3

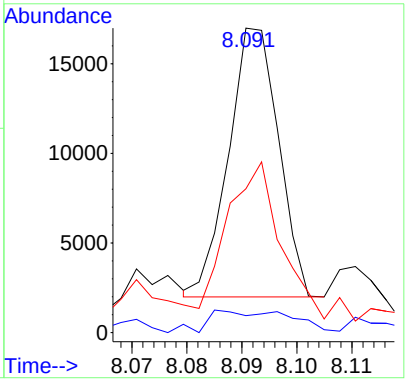


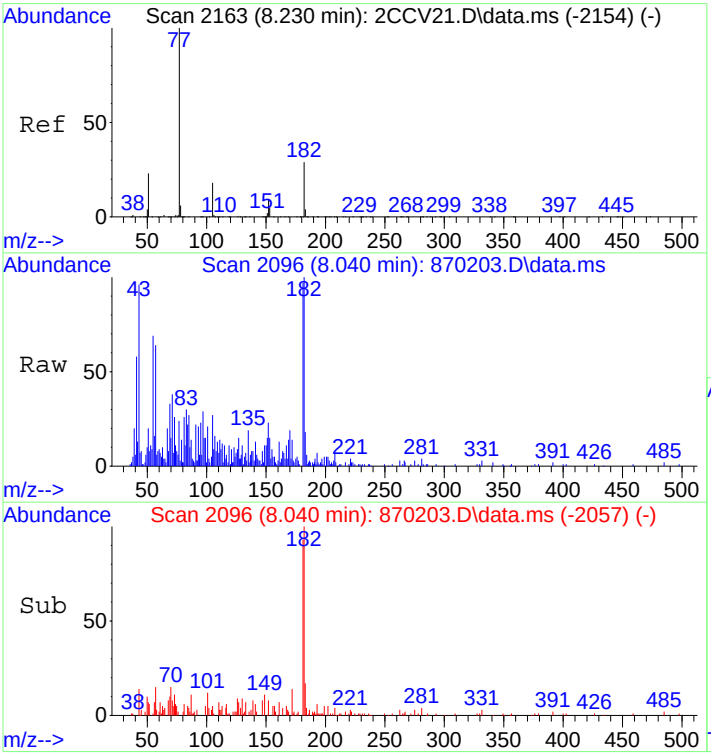


#65
Ntrsdiphlam&Diphlam
Concen: 0.17 ug/mL
RT: 8.091 min Scan# 2114
Delta R.T. 0.074 min
Lab File: 870203.D
Acq: 2 Dec 10 8:46 pm

Tgt Ion:169 Resp: 9482

Ion	Ratio	Lower	Upper
169	100		
168	5.3	34.8	94.8#
167	48.5	4.6	64.6

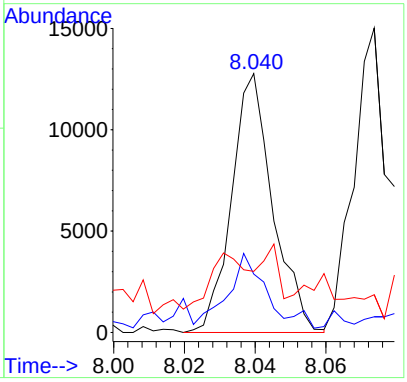


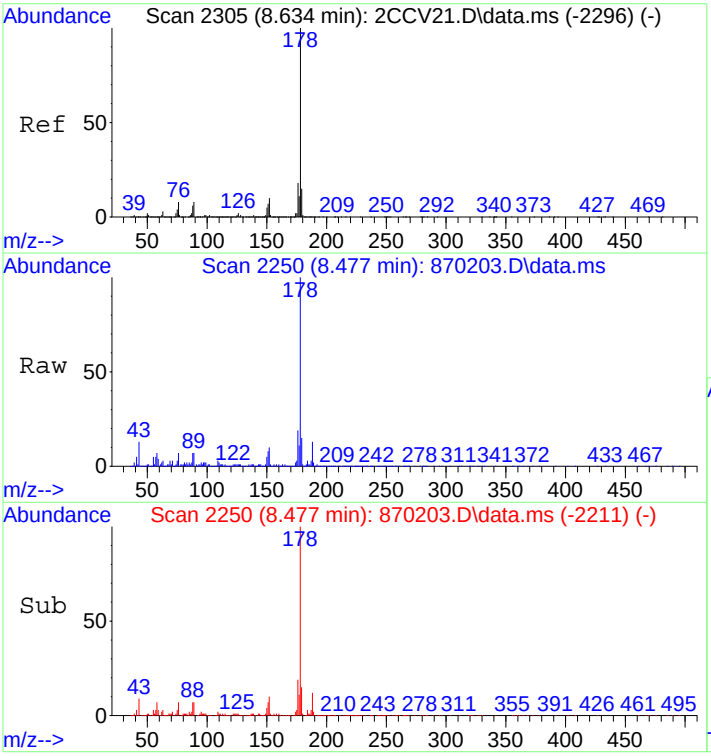


#66
Azobenz&12Diphlhyd
Concen: 0.48 ug/mL
RT: 8.040 min Scan# 2096
Delta R.T. -0.003 min
Lab File: 870203.D
Acq: 2 Dec 10 8:46 pm

Tgt Ion:182 Resp: 10345

Ion	Ratio	Lower	Upper
182	100		
152	20.5	3.5	63.5
77	16.0	348.6	408.6#

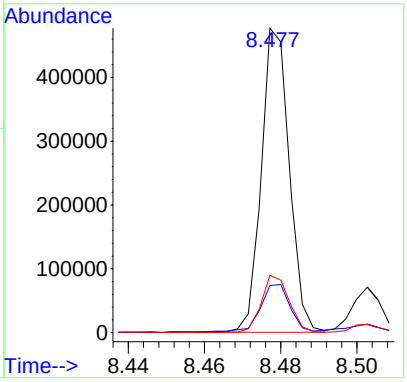


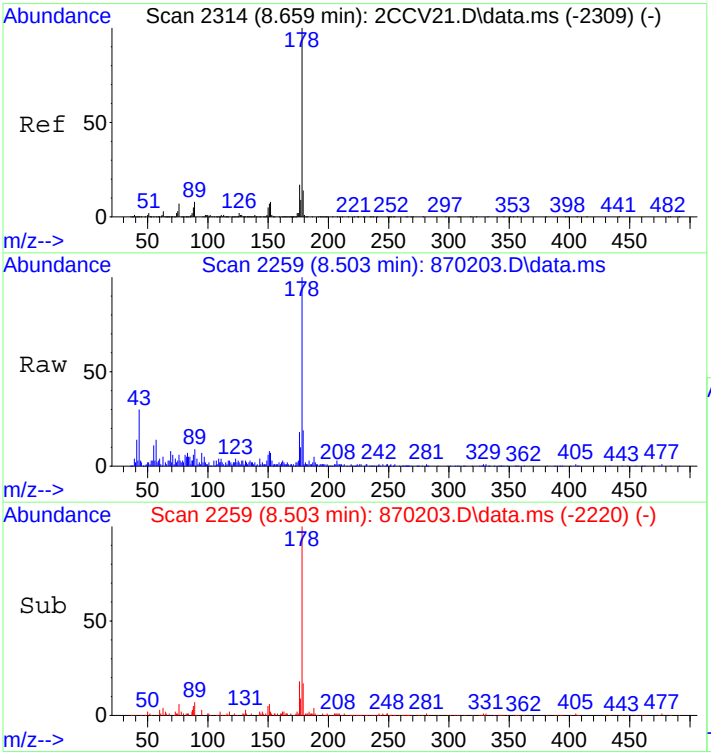


#70
Phenanthrene
Concen: 2.37 ug/mL
RT: 8.477 min Scan# 2250
Delta R.T. -0.003 min
Lab File: 870203.D
Acq: 2 Dec 10 8:46 pm

Tgt Ion:178 Resp: 242556

Ion	Ratio	Lower	Upper
178	100		
179	15.2	0.0	44.4
176	18.8	0.0	48.0

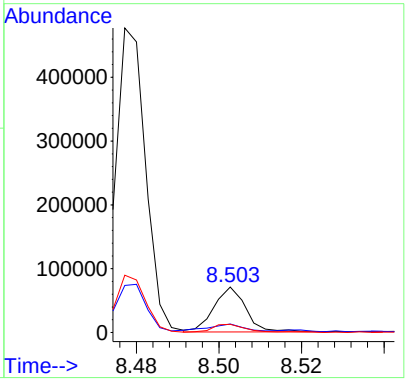


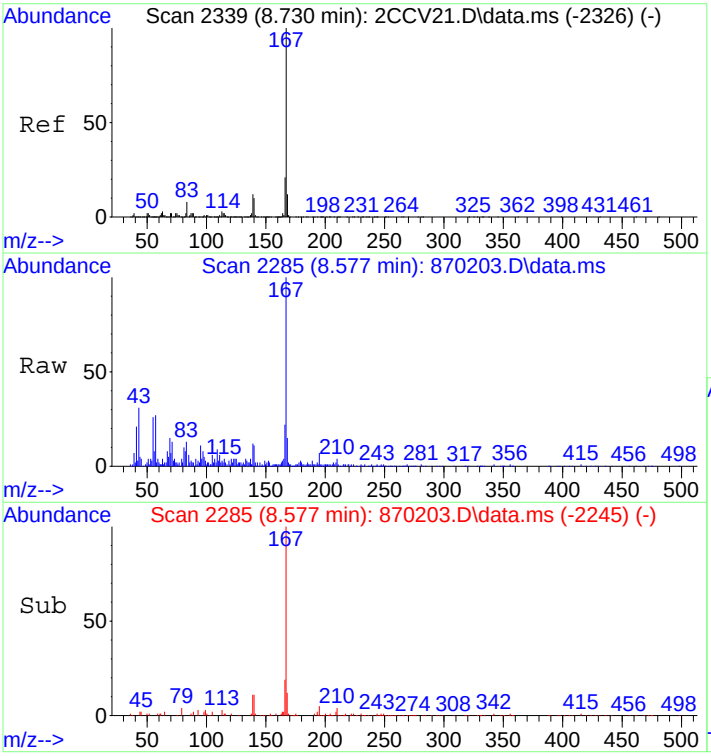


#71
Anthracene
Concen: 0.36 ug/mL
RT: 8.503 min Scan# 2259
Delta R.T. -0.003 min
Lab File: 870203.D
Acq: 2 Dec 10 8:46 pm

Tgt Ion:178 Resp: 37682

Ion	Ratio	Lower	Upper
178	100		
179	16.5	0.0	45.0
176	18.3	0.0	48.4

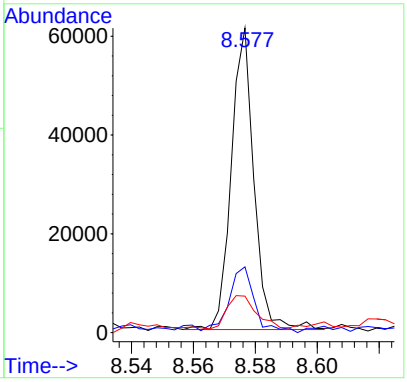


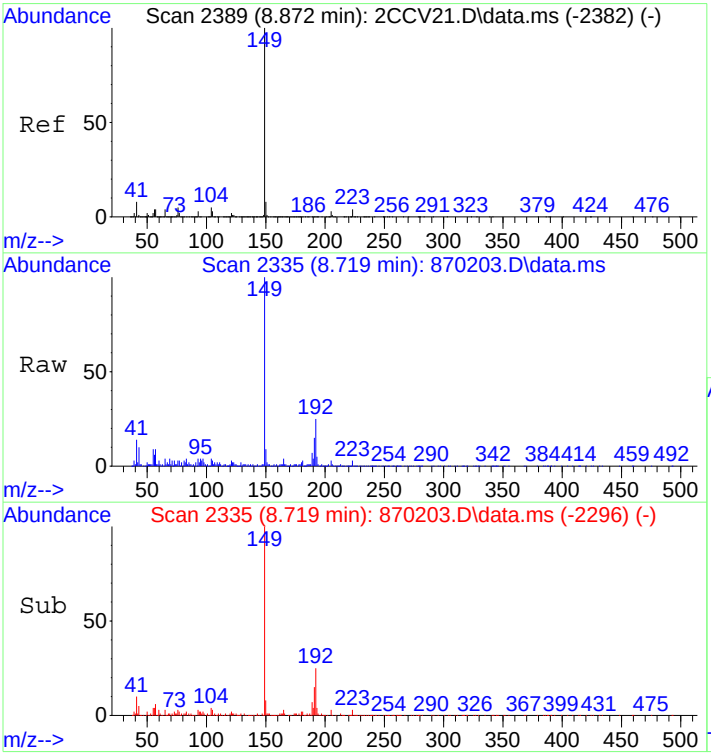


#72
Carbazole
Concen: 0.35 ug/mL
RT: 8.577 min Scan# 2285
Delta R.T. -0.000 min
Lab File: 870203.D
Acq: 2 Dec 10 8:46 pm

Tgt Ion:167 Resp: 31050

Ion	Ratio	Lower	Upper
167	100		
166	19.7	0.0	50.6
139	10.5	0.0	43.0

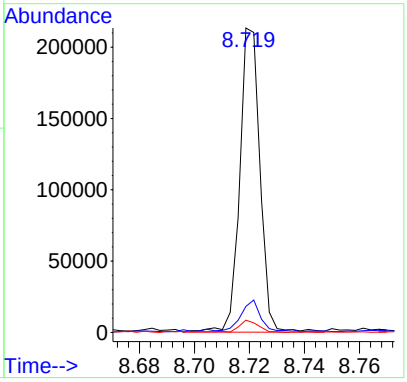


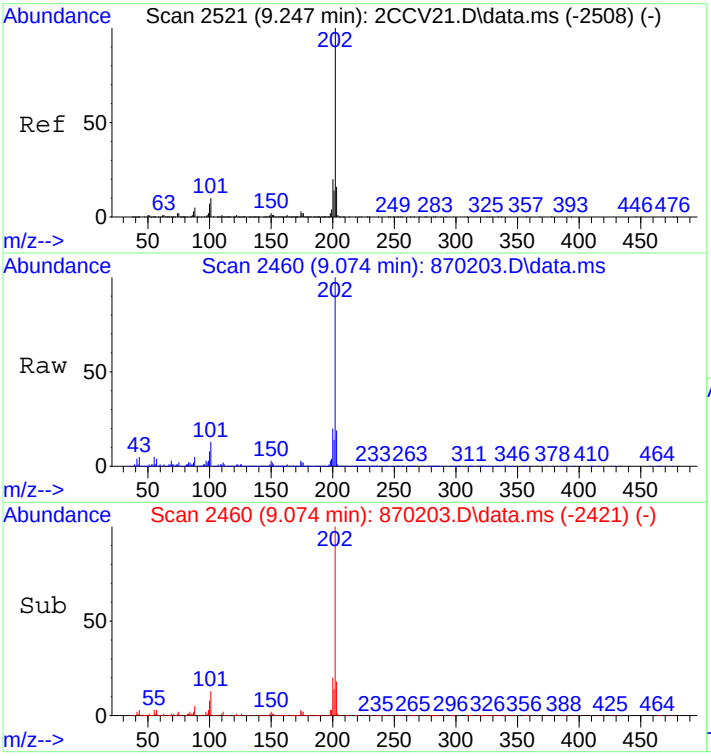


#73
Dinbtylphthal
Concen: 0.92 ug/mL
RT: 8.719 min Scan# 2335
Delta R.T. -0.003 min
Lab File: 870203.D
Acq: 2 Dec 10 8:46 pm

Tgt Ion:149 Resp: 109313

Ion	Ratio	Lower	Upper
149	100		
150	8.1	0.0	38.5
104	3.9	0.0	34.3

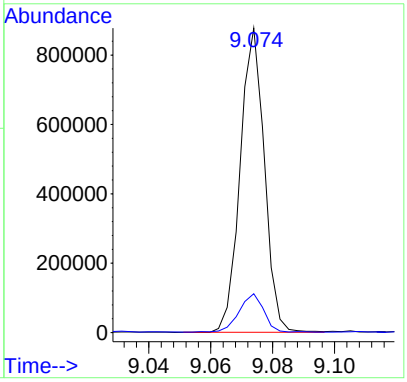


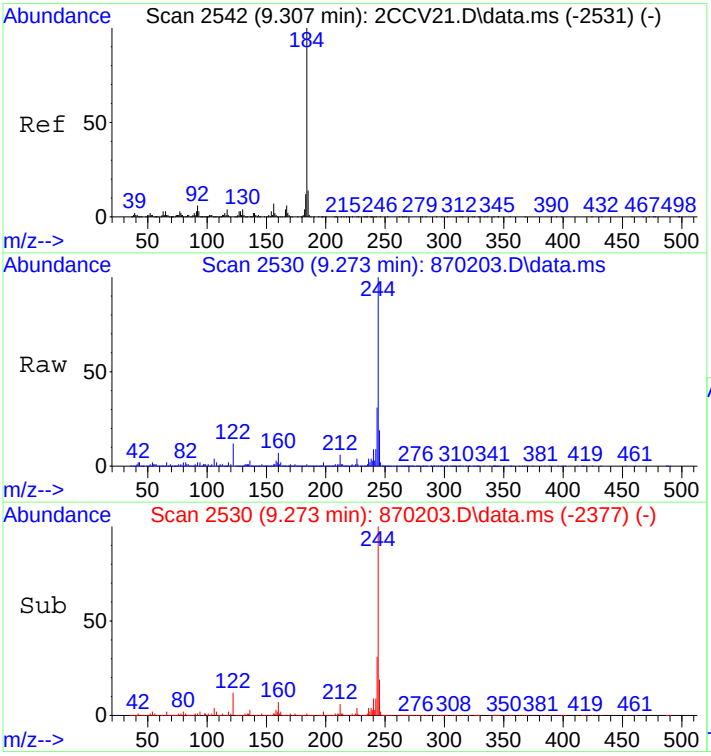


#74
Fluoranthene
Concen: 4.62 ug/mL
RT: 9.074 min Scan# 2460
Delta R.T. -0.003 min
Lab File: 870203.D
Acq: 2 Dec 10 8:46 pm

Tgt Ion:202 Resp: 476942

Ion	Ratio	Lower	Upper
202	100		
101	12.6	0.0	41.2

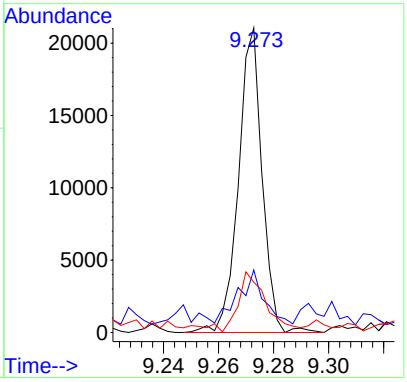


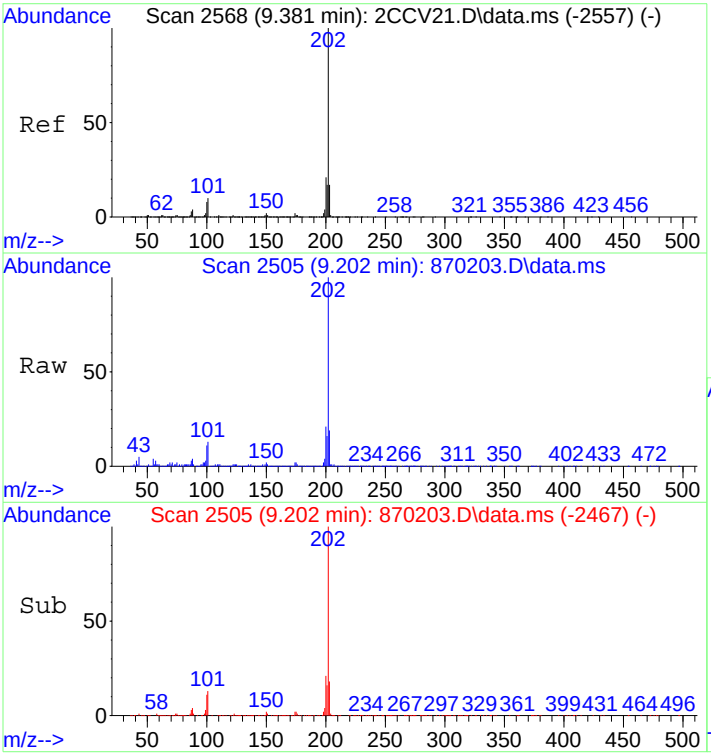


#76
Benzidine
Concen: Below ug/mL
RT: 9.273 min Scan# 2530
Delta R.T. 0.133 min
Lab File: 870203.D
Acq: 2 Dec 10 8:46 pm

Tgt Ion:184 Resp: 12529

Ion	Ratio	Lower	Upper
184	100		
185	13.5	0.0	43.8
183	15.0	0.0	41.8

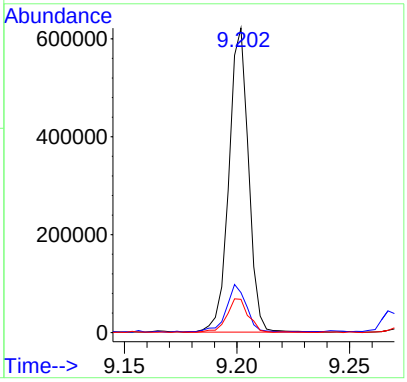


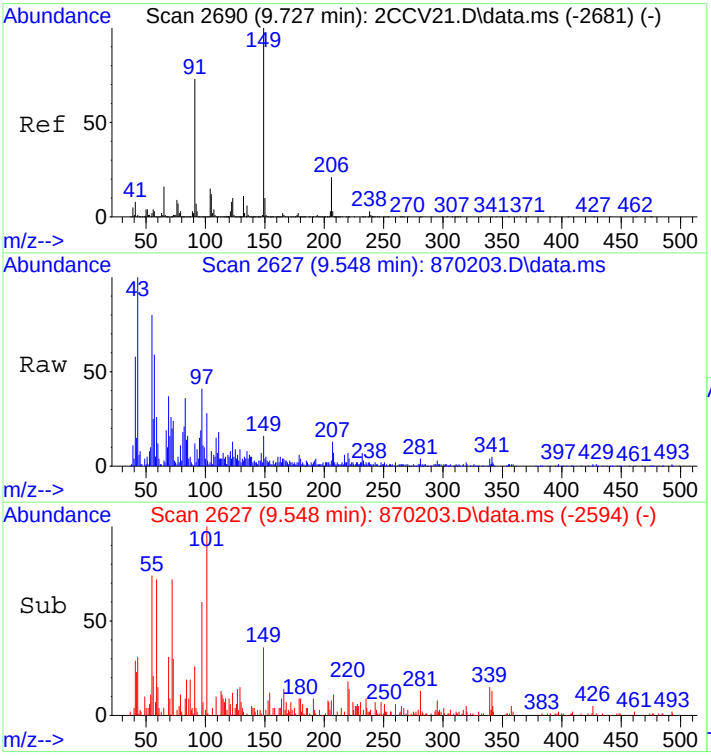


#77
Pyrene
Concen: 3.50 ug/mL
RT: 9.202 min Scan# 2505
Delta R.T. -0.006 min
Lab File: 870203.D
Acq: 2 Dec 10 8:46 pm

Tgt Ion:202 Resp: 375707

Ion	Ratio	Lower	Upper
202	100		
101	13.0	0.0	44.0
100	10.8	0.0	42.2

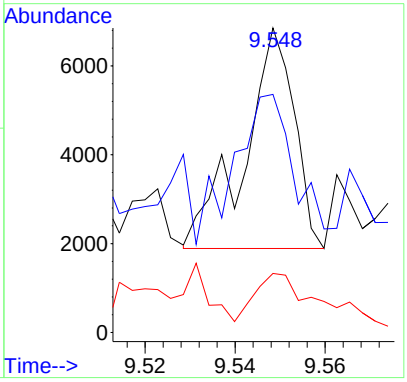


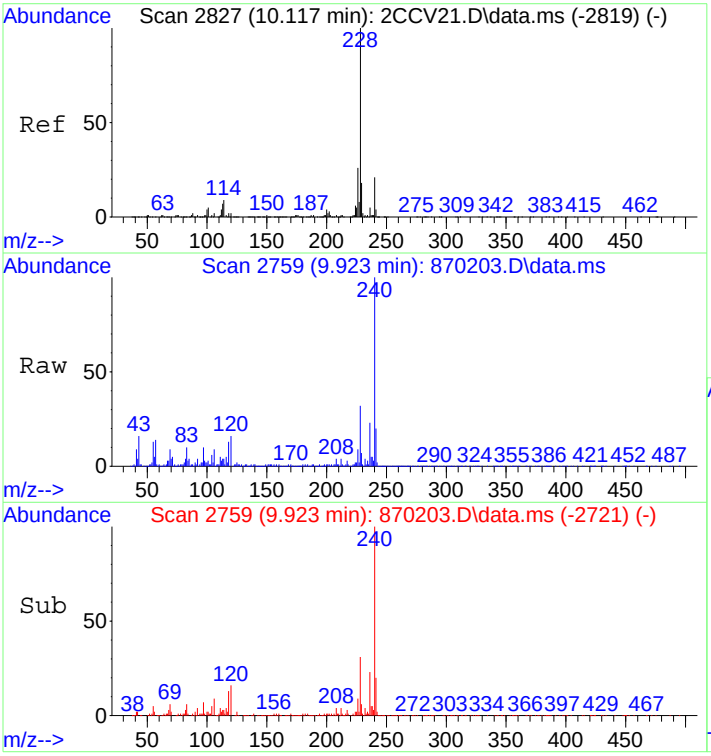


#79
Btylbzylphth
Concen: 0.07 ug/mL
RT: 9.548 min Scan# 2627
Delta R.T. -0.006 min
Lab File: 870203.D
Acq: 2 Dec 10 8:46 pm

Tgt Ion:149 Resp: 3837

Ion	Ratio	Lower	Upper
149	100		
91	55.8	40.5	100.5
206	12.7	0.0	48.9

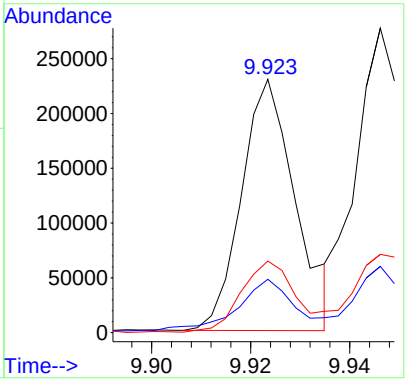


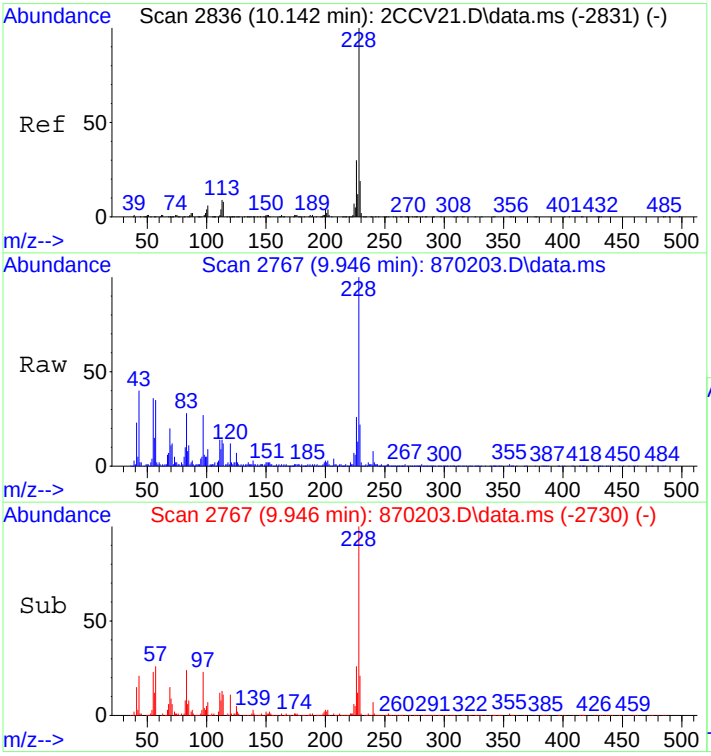


#81
B[a]anthracen
Concen: 1.73 ug/mL
RT: 9.923 min Scan# 2759
Delta R.T. -0.006 min
Lab File: 870203.D
Acq: 2 Dec 10 8:46 pm

Tgt Ion:228 Resp: 173394

Ion	Ratio	Lower	Upper
228	100		
229	18.8	0.0	48.8
226	28.3	0.0	56.6

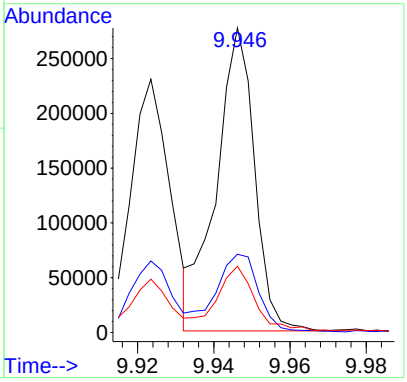


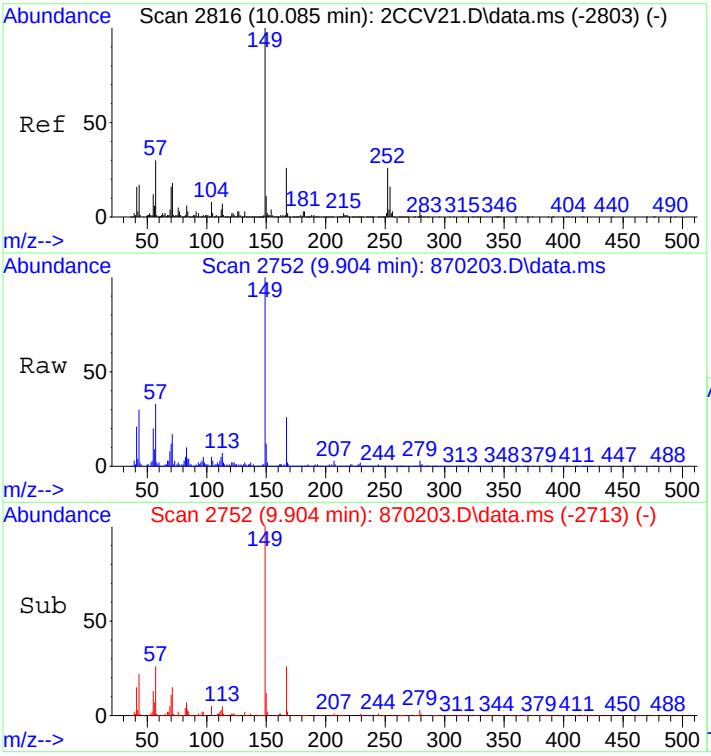


#82
Chrysene
Concen: 2.02 ug/mL
RT: 9.946 min Scan# 2767
Delta R.T. -0.009 min
Lab File: 870203.D
Acq: 2 Dec 10 8:46 pm

Tgt Ion:228 Resp: 193680

Ion	Ratio	Lower	Upper
228	100		
226	25.4	0.0	58.6
229	21.0	0.0	49.6

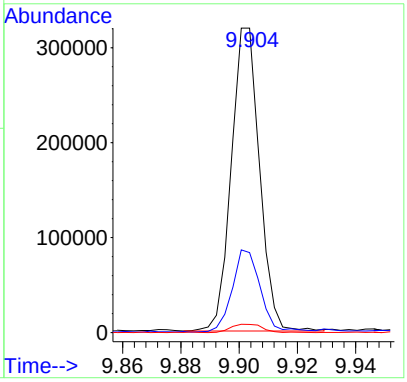


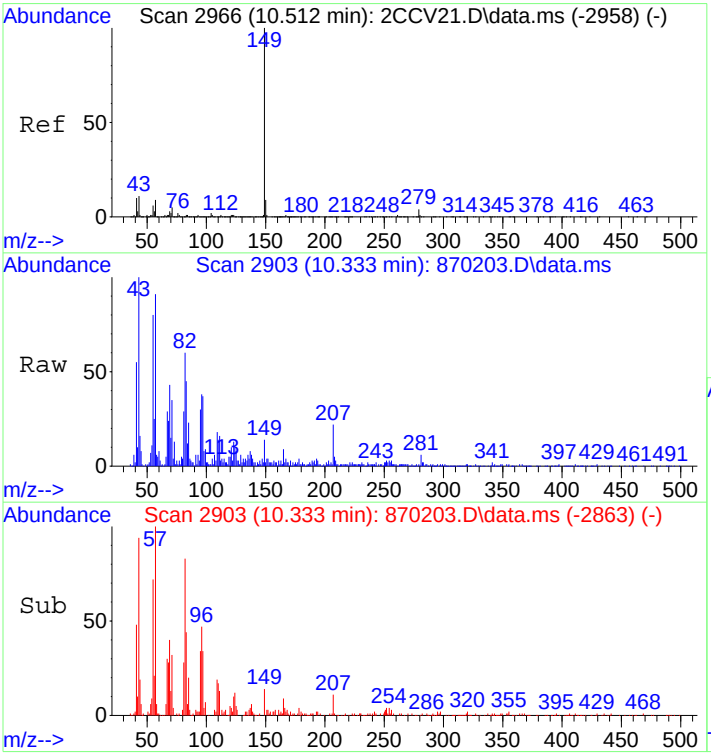


#83
bis2Ethlhxlph
Concen: 2.84 ug/mL
RT: 9.904 min Scan# 2752
Delta R.T. -0.003 min
Lab File: 870203.D
Acq: 2 Dec 10 8:46 pm

Tgt Ion:149 Resp: 215101

Ion	Ratio	Lower	Upper
149	100		
167	26.0	0.0	56.9
279	2.6	0.0	33.6

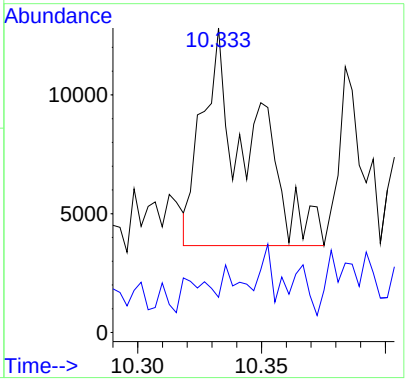


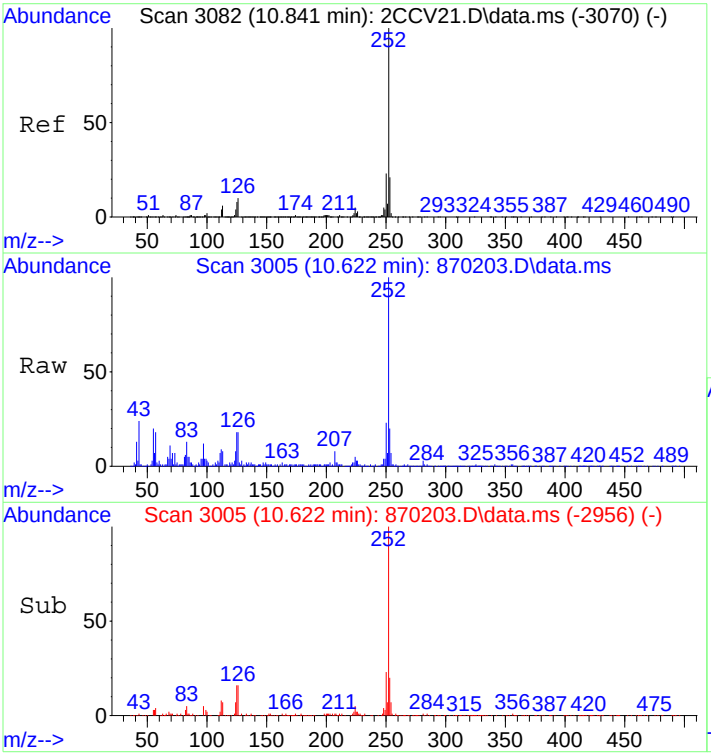


#84
Dinoctylphthl
Concen: 0.09 ug/mL
RT: 10.333 min Scan# 2903
Delta R.T. -0.000 min
Lab File: 870203.D
Acq: 2 Dec 10 8:46 pm

Tgt Ion:149 Resp: 12420

Ion	Ratio	Lower	Upper
149	100		
150	0.0	0.0	39.0

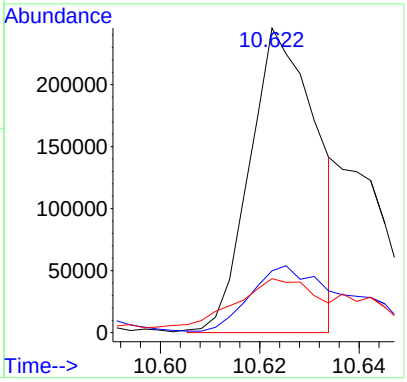


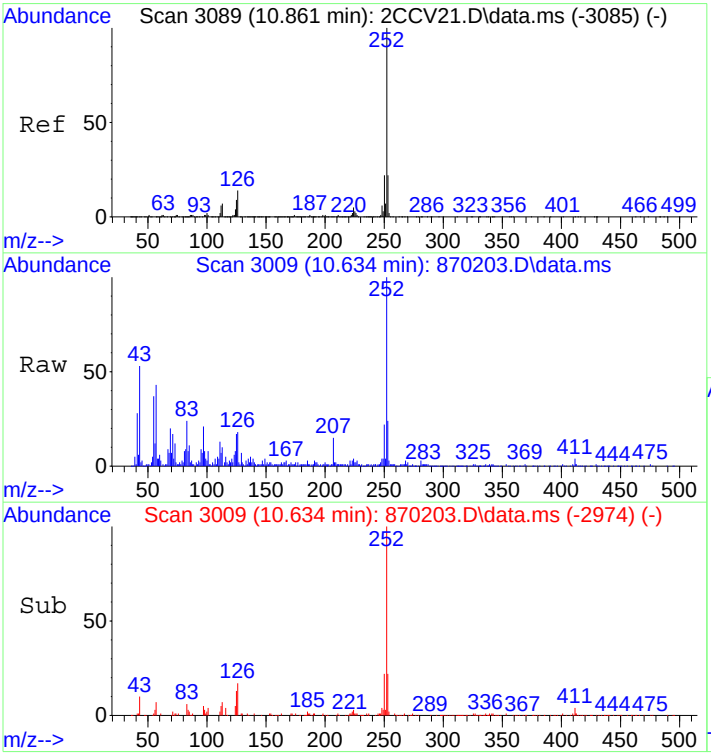


#86
B[b]fluoranth
Concen: 2.45 ug/mL m
RT: 10.622 min Scan# 3005
Delta R.T. -0.006 min
Lab File: 870203.D
Acq: 2 Dec 10 8:46 pm

Tgt Ion:252 Resp: 227435

Ion	Ratio	Lower	Upper
252	100		
253	20.3	0.0	50.8
125	17.7	0.0	41.9

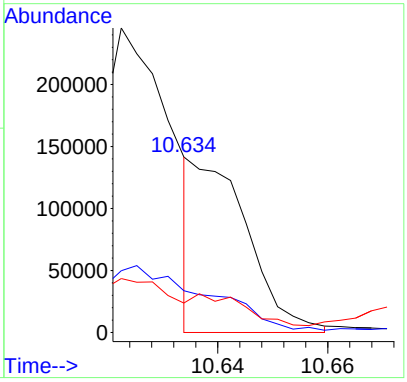


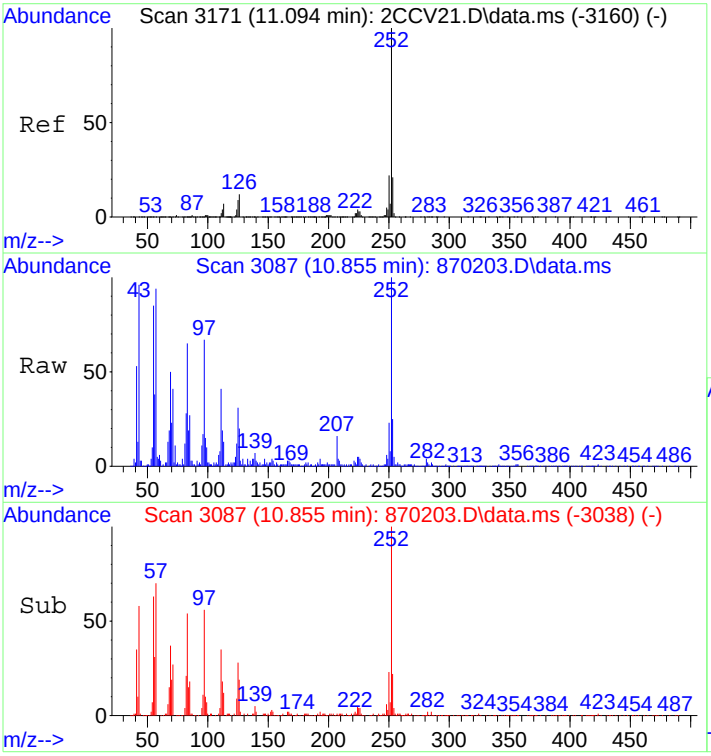


#87
B[k]fluoranth
Concen: 1.10 ug/mL m
RT: 10.634 min Scan# 3009
Delta R.T. -0.014 min
Lab File: 870203.D
Acq: 2 Dec 10 8:46 pm

Tgt Ion:252 Resp: 96770

Ion	Ratio	Lower	Upper
252	100		
253	23.8	0.0	50.8
125	16.8	0.0	41.3

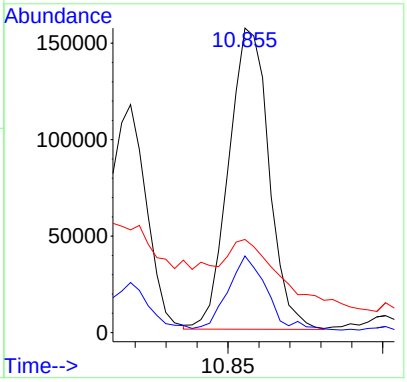


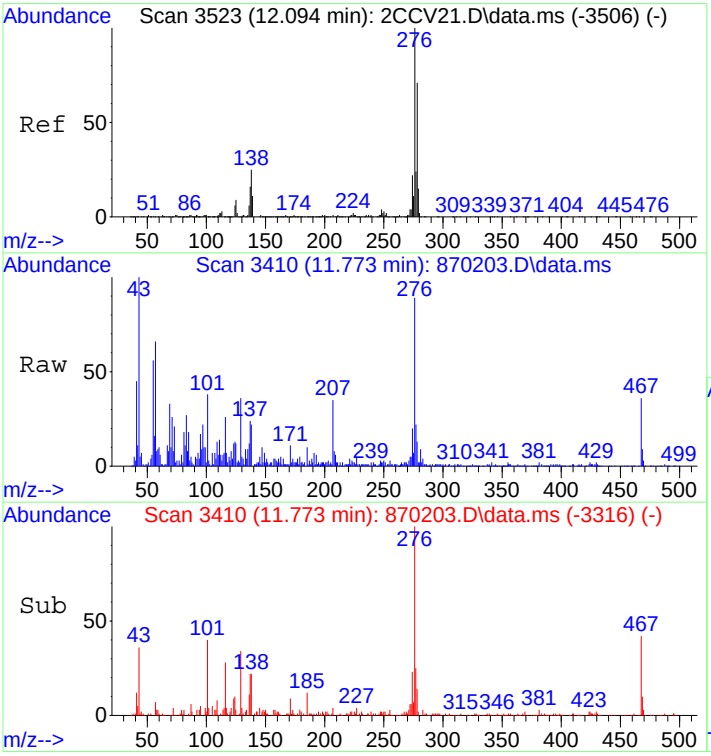


#88
Benz[a]pyrene
Concen: 1.67 ug/mL
RT: 10.855 min Scan# 3087
Delta R.T. -0.006 min
Lab File: 870203.D
Acq: 2 Dec 10 8:46 pm

Tgt Ion:252 Resp: 141446

Ion	Ratio	Lower	Upper
252	100		
253	24.3	0.0	50.4
125	20.2	0.0	43.2

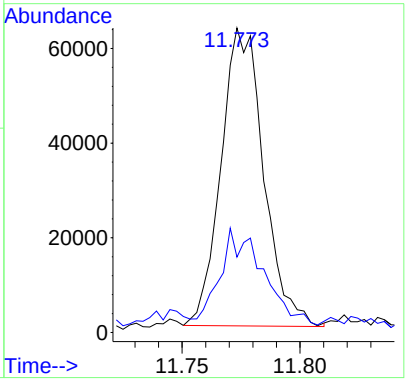


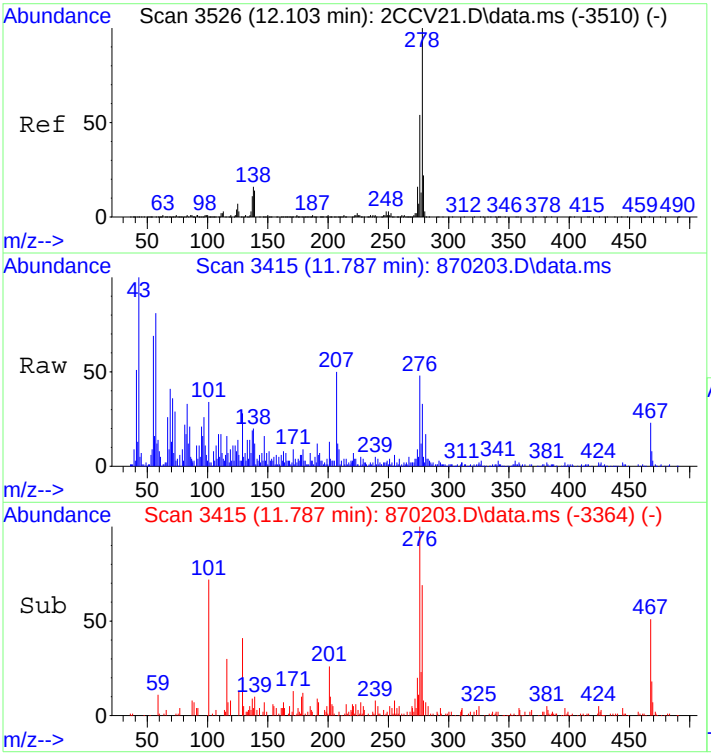


#89
Indeno-pyrene
Concen: 0.92 ug/mL
RT: 11.773 min Scan# 3410
Delta R.T. -0.011 min
Lab File: 870203.D
Acq: 2 Dec 10 8:46 pm

Tgt Ion:276 Resp: 79160

Ion	Ratio	Lower	Upper
276	100		
138	21.6	2.2	62.2

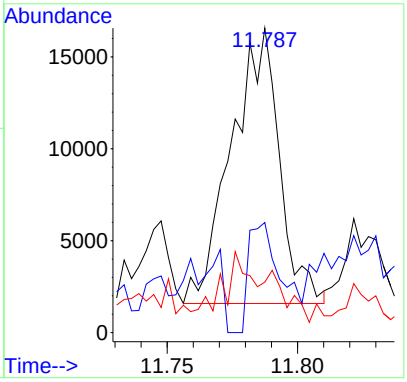


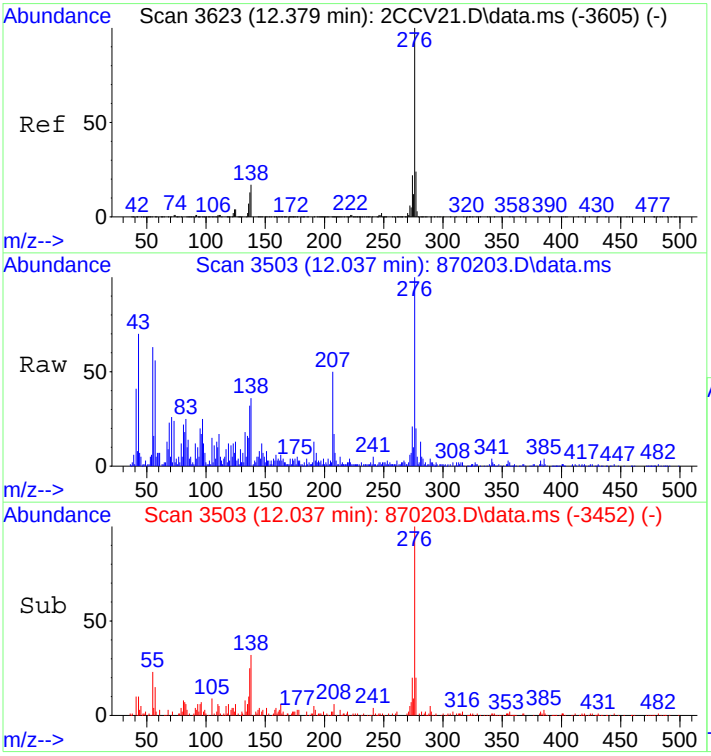


#90
Dib[ah]anthr
Concen: 0.28 ug/mL
RT: 11.787 min Scan# 3415
Delta R.T. -0.006 min
Lab File: 870203.D
Acq: 2 Dec 10 8:46 pm

Tgt Ion:278 Resp: 19216

Ion	Ratio	Lower	Upper
278	100		
139	21.1	0.0	50.7
279	12.2	0.0	54.3

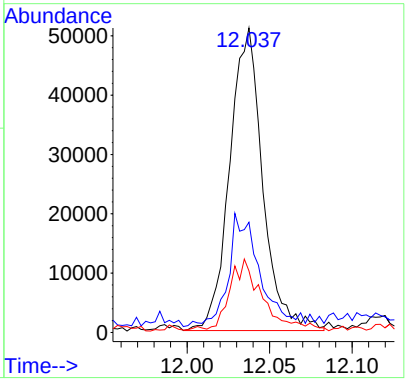


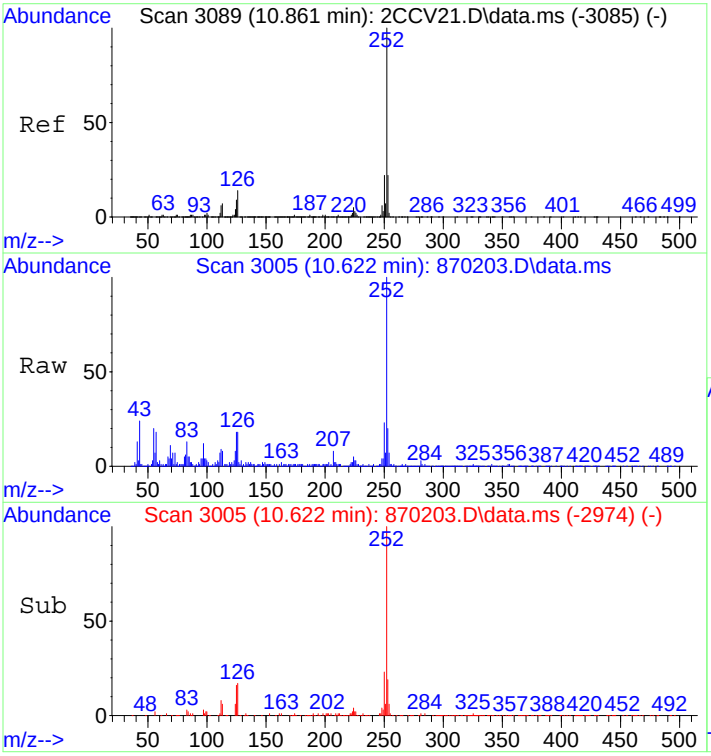


#91
B[ghi]perylen
Concen: 1.00 ug/mL
RT: 12.037 min Scan# 3503
Delta R.T. -0.006 min
Lab File: 870203.D
Acq: 2 Dec 10 8:46 pm

Tgt Ion:276 Resp: 71267

Ion	Ratio	Lower	Upper
276	100		
138	33.7	0.0	57.5
277	19.5	0.0	53.1



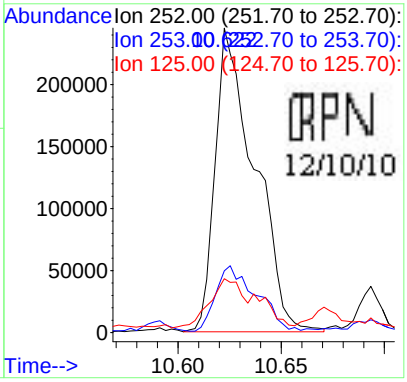


#87
B[k]fluoranth
Concen: 3.70 ug/mL
RT: 10.622 min Scan# 3005
Delta R.T. -0.026 min
Lab File: 870203.D
Acq: 2 Dec 2010 20:46

Tgt Ion:252 Resp: 324417

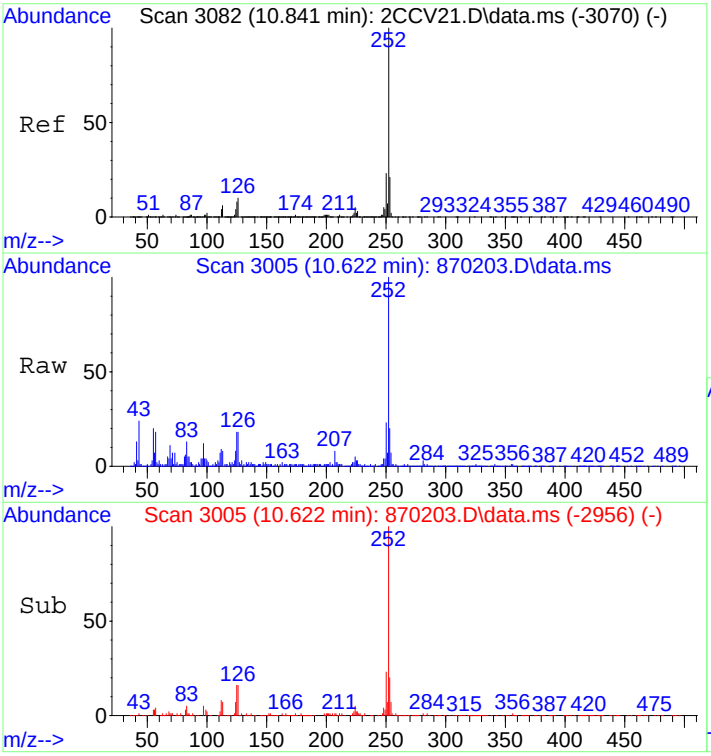
Ion	Ratio	Lower	Upper
252	100		
253	19.6	0.0	50.8
125	15.4	0.0	41.3

JJY
01/05/11



RPN
12/10/10

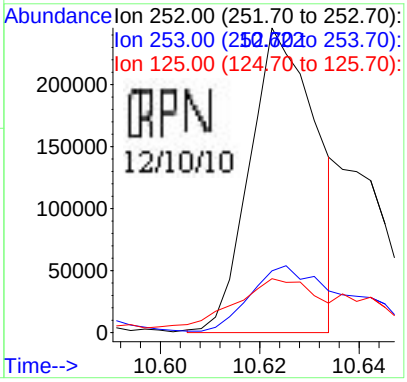
Before Manual Integration



#86
B[b]fluoranth
Concen: 2.45 ug/mL m
RT: 10.622 min Scan# 3005
Delta R.T. -0.006 min
Lab File: 870203.D
Acq: 2 Dec 2010 20:46

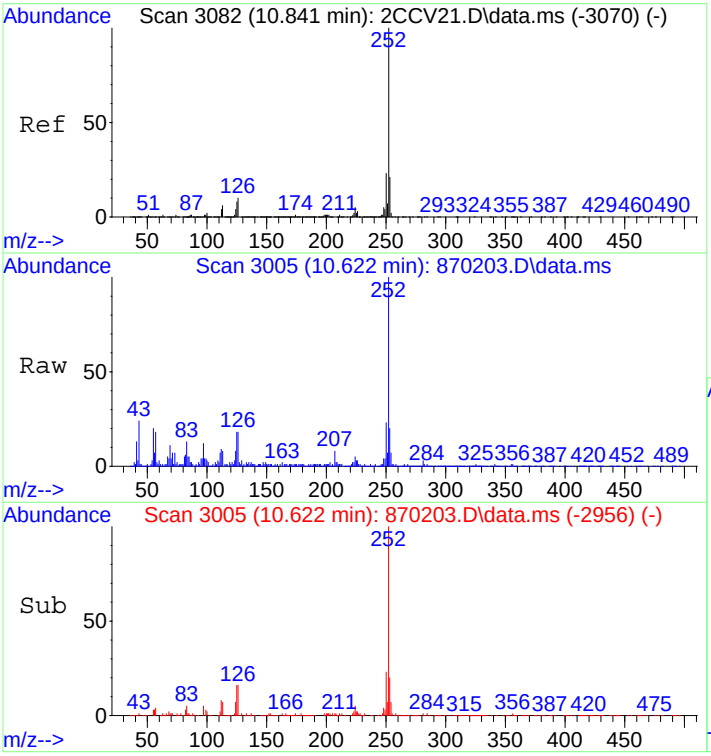
Tgt Ion:252 Resp: 227435

Ion	Ratio	Lower	Upper
252	100		
253	20.3	0.0	50.8
125	17.7	0.0	41.9



JJY
01/05/11

After Manual Integration

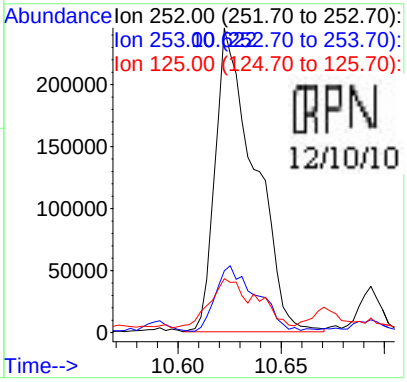


#86
B[b]fluoranth
Concen: 3.49 ug/mL
RT: 10.622 min Scan# 3005
Delta R.T. -0.006 min
Lab File: 870203.D
Acq: 2 Dec 2010 20:46

Tgt Ion:252 Resp: 324417

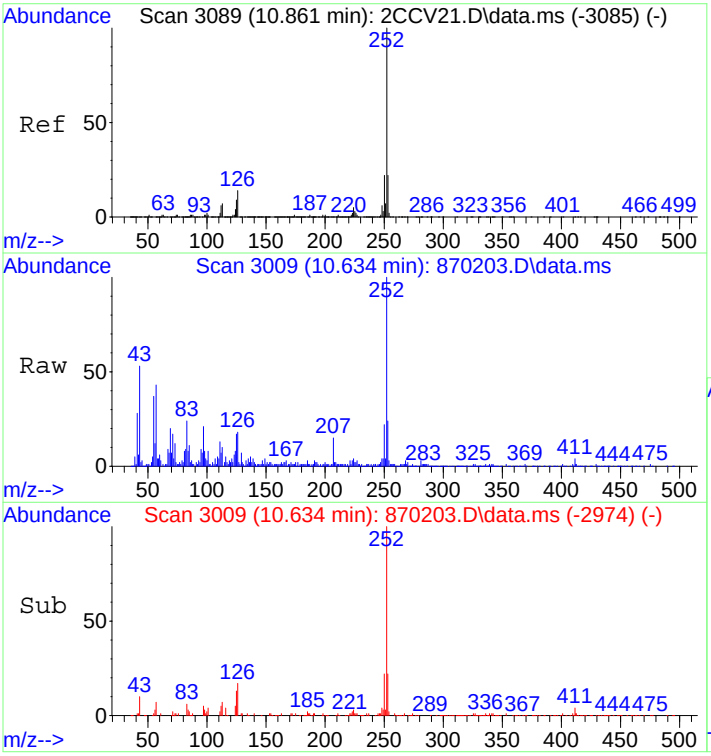
Ion	Ratio	Lower	Upper
252	100		
253	19.6	0.0	50.8
125	15.4	0.0	41.9

JJY
01/05/11



RPN
12/10/10

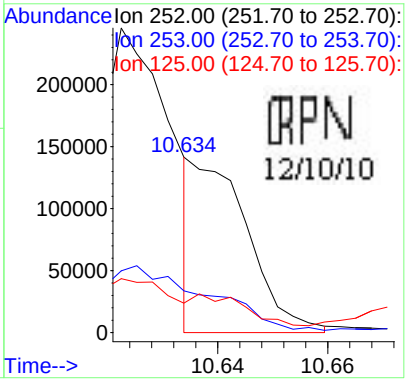
Before Manual Integration



#87
B[k]fluoranth
Concen: 1.10 ug/mL m
RT: 10.634 min Scan# 3009
Delta R.T. -0.014 min
Lab File: 870203.D
Acq: 2 Dec 2010 20:46

Tgt Ion:252 Resp: 96770

Ion	Ratio	Lower	Upper
252	100		
253	23.8	0.0	50.8
125	16.8	0.0	41.3



JJY
01/05/11

RPN
12/10/10

After Manual Integration

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120810\870212.D Vial: 27
Acq On : 8 Dec 2010 23:20 Operator: RPN
Sample : 72359,870212,1 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 15 16:16:48 2010

RPN 10/15/10

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Wed Dec 15 16:16:10 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

M.I. Benzo(k)fluoranthene Reason #3

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.391	152	738999	20.00	ug/mL	0.00
21) Naphthalened8	6.039	136	2947652	20.00	ug/mL	0.00
39) Acenaphthened10	7.551	164	1773178	20.00	ug/mL	0.00
63) Phenanthrd10	8.449	188	2631380	20.00	ug/mL	0.00
75) Chrysene-d12	9.909	240	2304985	20.00	ug/mL	-0.02
85) Perylene-d12	10.867	264	1802038	20.00	ug/mL	-0.02
System Monitoring Compounds						
4) SURR2Flphenol	3.175	112	1179240	64.10	%REC	0.05
Spiked Amount 100.000	Range 20 - 110		Recovery = 64.10%			
7) SURRPhenol-d5	3.965	99	1585431	71.74	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 71.74%			
22) SURRNitrbenzened5	5.082	82	489764	68.85	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 68.85%			
44) SURR2Flbiphenyl	7.065	172	1682920	72.54	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 72.54%			
62) SURR246Tribrphenl	8.068	330	393476	73.39	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 73.39%			
78) SURRTerphenyl-d14	9.253	244	1318528	78.75	ug/mL	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 78.75%			
Target Compounds						Qvalue
2) Ntrsdimeth	2.320	74	7038	0.2682	ug/mL#	24
5) Aniline	4.002	93	6836	0.0960	ug/mL#	42
6) bis2Clethletr	4.062	93	9441	0.2135	ug/mL#	44
8) Phenol	3.976	94	16176	0.2970	ug/mL#	60
12) 12Diclbenz	4.587	146	6691	0.1211	ug/mL	87
13) Benzyl alcoho	4.565	108	1797	0.9708	ug/mL#	5
15) 2Methylphenol	4.681	108	1987	0.0477	ug/mL#	34
16) Ntrspyrrol	4.908	100	626	0.0284	ug/mL#	62
17) Acetophenone	4.886	105	15685	0.2524	ug/mL	82
18) Hexaclethane	4.994	117	538	0.0277	ug/mL#	15
19) N-Ntrsdinprop	4.968	70	1022	0.0367	ug/mL	83
20) 3&4Methylphenol	4.889	108	1749	0.0421	ug/mL#	37
24) Isophorone	5.463	82	4641	0.0579	ug/mL	70
25) 2-Nitrophenol	5.568	139	5356	0.1971	ug/mL	95
27) bis2clethoxym	5.778	93	1762	0.0319	ug/mL#	32
30) Benzoic acid	5.718	105	12354	3.3067	ug/mL	71
31) Naphthalene	6.062	128	49626	0.3299	ug/mL	92
32) 4-Cl-aniline	6.065	127	6084	0.1078	ug/mL#	49
36) 4Cl3methylphe	6.619	107	878	0.0239	ug/mL#	35
37) 2Methylnaphth	6.753	141	32975	0.3927	ug/mL	95
38) 1Methylnaphth	6.838	141	24519	0.2813	ug/mL	100
45) 2Clnaphthalen	7.159	162	2967	0.0290	ug/mL#	50
46) 2Nitroaniline	7.230	65	2110	0.0882	ug/mL#	12
47) Acnaphthylene	7.454	152	90325	0.5147	ug/mL	95
48) Dimethylphtha	7.372	163	5278	0.0438	ug/mL	68
49) 26Dinitrotolu	7.400	165	23689	0.9098	ug/mL#	39
50) Acenaphthene	7.574	153	16951	0.1536	ug/mL	85
51) 3Nitroaniline	7.577	138	1177	0.0422	ug/mL#	17
52) 24Dinitphenol	7.744	184	814	2.4226	ug/mL#	39
53) Dibenzofuran	7.690	168	34095	0.2375	ug/mL	93
54) 24Dinitrotolu	7.582	165	1614	0.0501	ug/mL#	14
55) 4-Nitrophenol	7.619	109	2696	0.3019	ug/mL#	1
58) Fluorene	7.915	166	64633	0.5584	ug/mL	92
60) Diethylphthal	7.835	149	81436	0.6703	ug/mL	94

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120810\870212.D Vial: 27
Acq On : 8 Dec 2010 23:20 Operator: RPN
Sample : 72359,870212,1 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 15 16:16:48 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Wed Dec 15 16:16:10 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

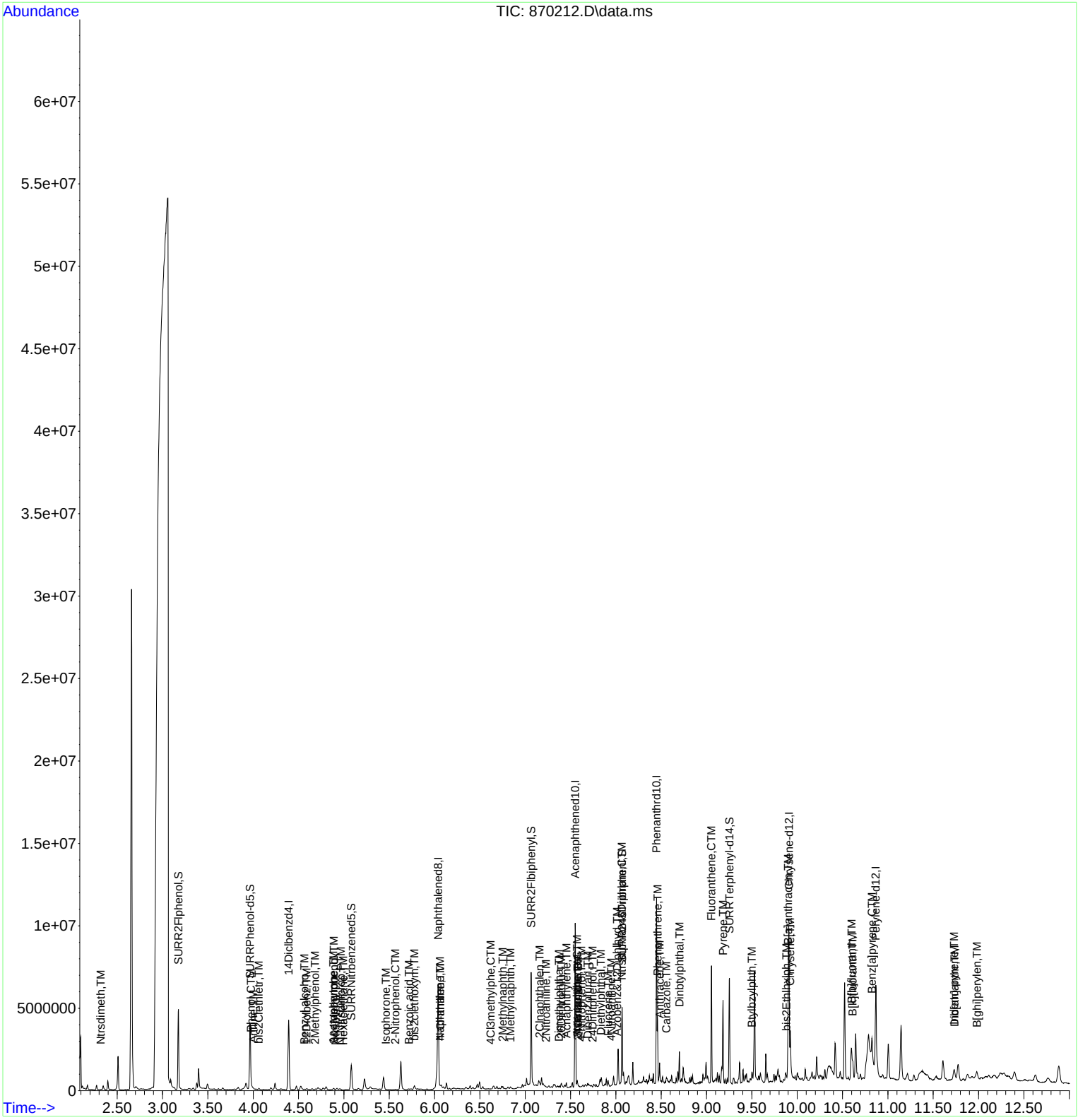
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
61) 4Nitroaniline	7.949	138	1494	0.0546 ug/mL#	52
65) Ntrsdiphlam&Diphlam	8.065	169	17891	0.2289 ug/mL#	41
66) Azobenz&12Diphlhyd	8.014	182	38758	1.3126 ug/mL#	1
70) Phenanthrene	8.460	178	797983	5.7192 ug/mL	98
71) Anthracene	8.483	178	280767	1.9848 ug/mL	98
72) Carbazole	8.557	167	58017	0.4841 ug/mL	96
73) Dinbtylphthal	8.702	149	399852	2.4713 ug/mL	97
74) Fluoranthene	9.054	202	1791446	12.7234 ug/mL	100
76) Benzidine	8.980	184	2128	Below Cal	85
77) Pyrene	9.182	202	1338200	9.7356 ug/mL	97
79) Btylbzylphth	9.500	149	2857	0.0427 ug/mL	67
80) 33Diclbnzidin	9.932	252	3816	Below Cal #	1
81) B[a]anthracen	9.901	228	755786	5.8958 ug/mL	98
82) Chrysene	9.924	228	645933	5.2591 ug/mL	98
83) bis2Ethlhxlph	9.881	149	81010	0.8340 ug/mL	97
86) B[b]fluoranth	10.600	252	716873	6.7536 ug/mL	96
87) B[k]fluoranth	10.611	252	254680m	2.5401 ug/mL	
88) Benz[a]pyrene	10.824	252	398449	4.1127 ug/mL	95
89) Indeno-pyrene	11.731	276	195530	1.9876 ug/mL	95
90) Dib[ah]anthr	11.736	278	51934	0.6507 ug/mL	91
91) B[ghi]perylen	11.984	276	150478	1.8416 ug/mL	91

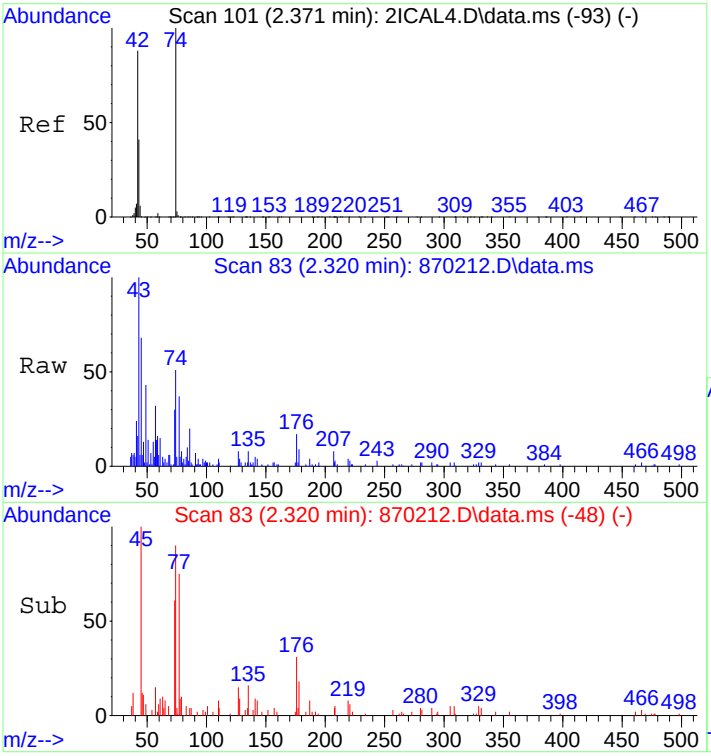
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120810\870212.D Vial: 27
Acq On : 8 Dec 2010 23:20 Operator: RPN
Sample : 72359,870212,1 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 15 16:16:48 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Wed Dec 15 16:16:10 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

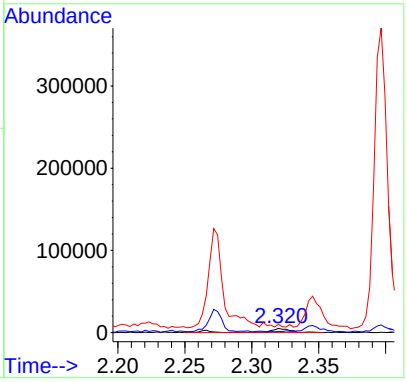


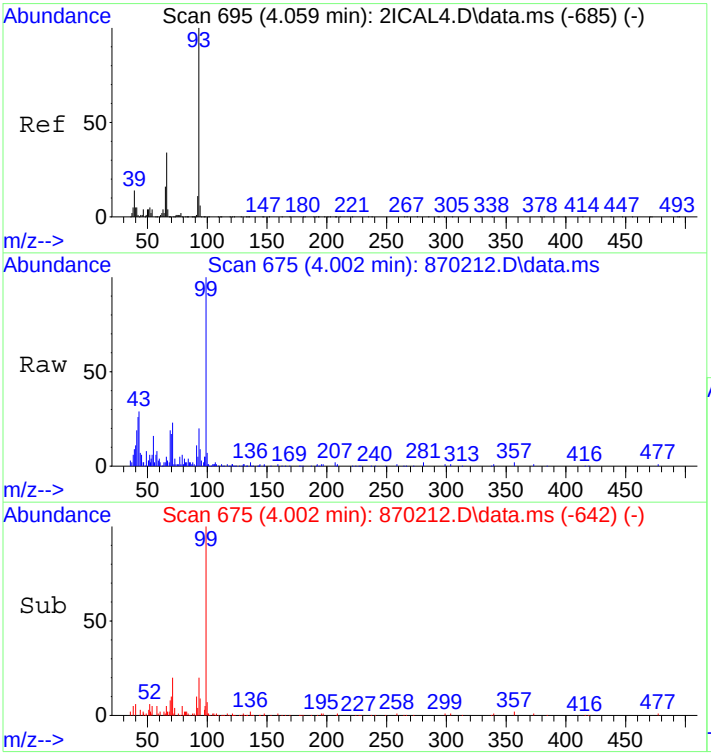


#2
Ntrsdimeth
Concen: 0.27 ug/mL
RT: 2.320 min Scan# 83
Delta R.T. -0.020 min
Lab File: 870212.D
Acq: 8 Dec 10 11:20 pm

Tgt Ion: 74 Resp: 7038

Ion	Ratio	Lower	Upper
74	100		
42	3.0	82.4	142.4#
43	57.3	17.7	77.7

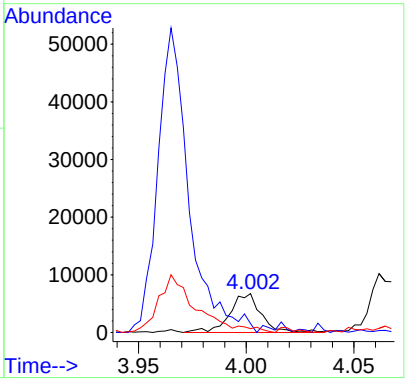


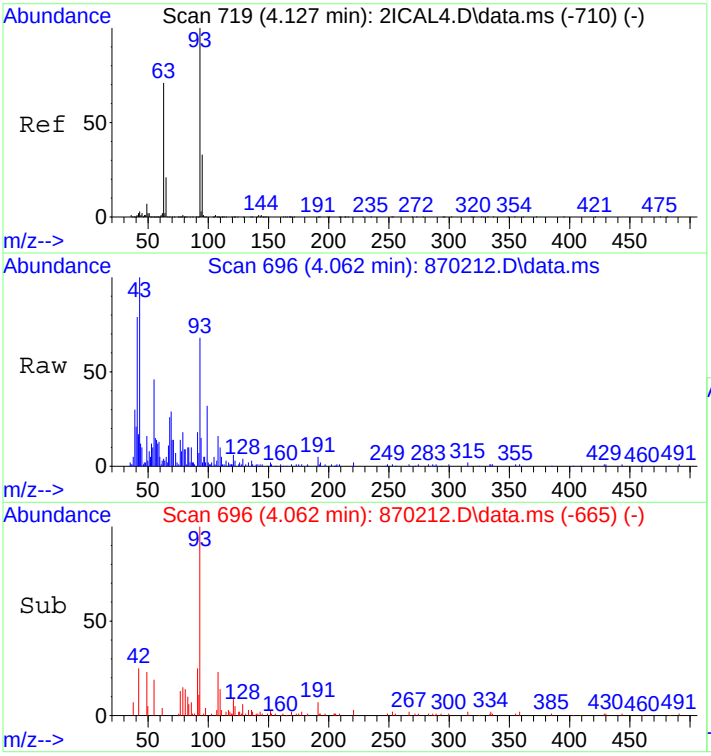


#5
Aniline
Concen: 0.10 ug/mL
RT: 4.002 min Scan# 675
Delta R.T. -0.023 min
Lab File: 870212.D
Acq: 8 Dec 10 11:20 pm

Tgt Ion: 93 Resp: 6836

Ion	Ratio	Lower	Upper
93	100		
66	0.0	10.4	70.4#
65	0.0	0.0	51.6

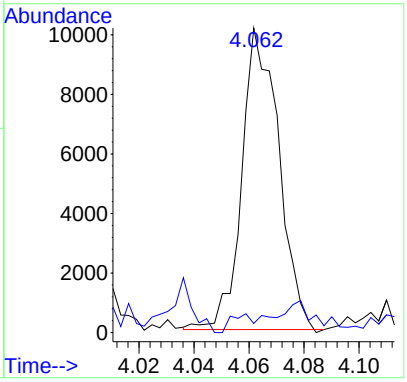


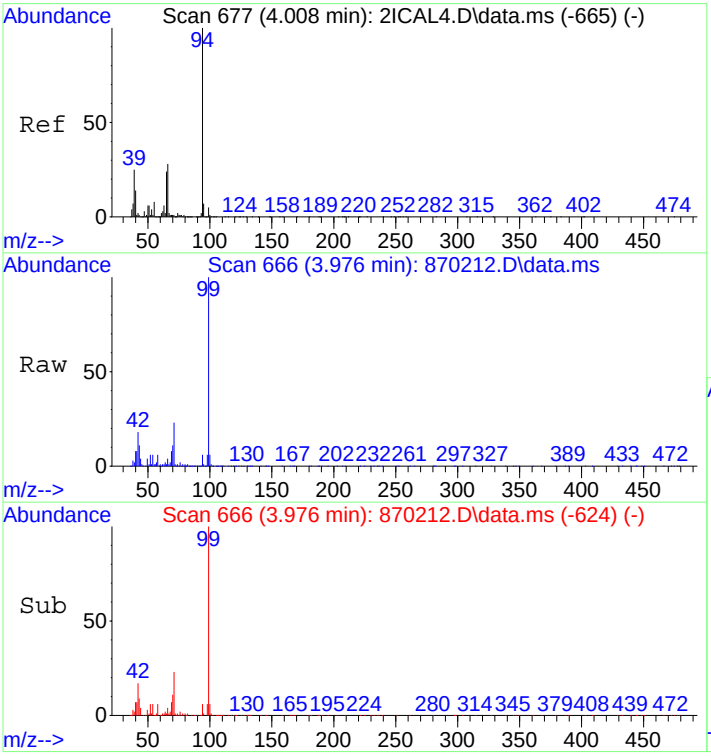


#6
bis2Clethletr
Concen: 0.21 ug/mL
RT: 4.062 min Scan# 696
Delta R.T. -0.028 min
Lab File: 870212.D
Acq: 8 Dec 10 11:20 pm

Tgt Ion: 93 Resp: 9441

Ion	Ratio	Lower	Upper
93	100		
95	0.8	2.4	62.4#

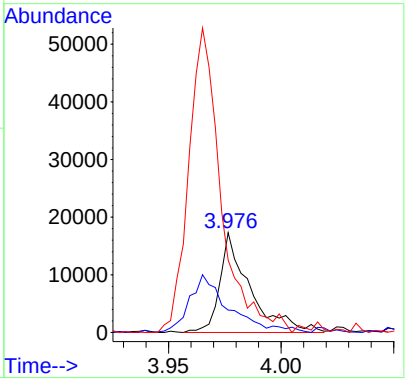


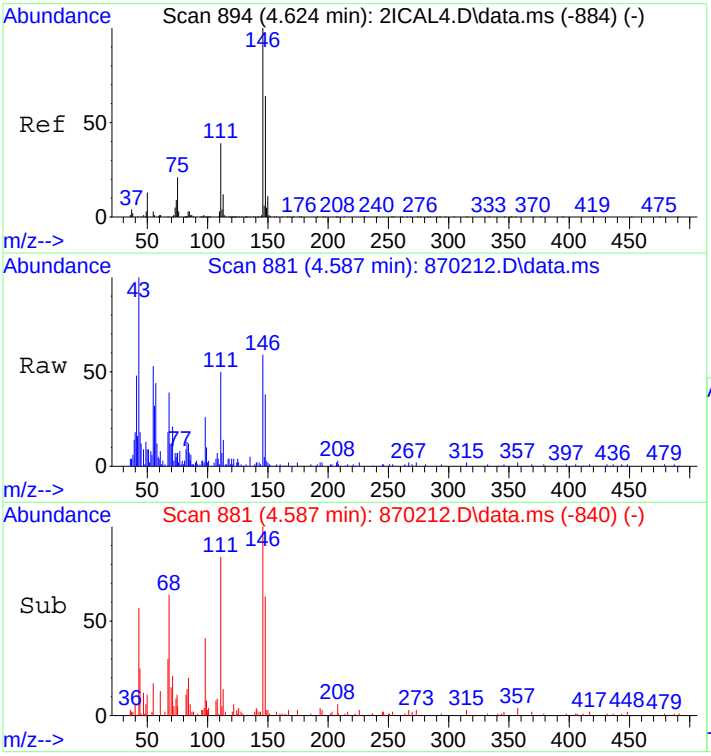


#8
Phenol
Concen: 0.30 ug/mL
RT: 3.976 min Scan# 666
Delta R.T. 0.003 min
Lab File: 870212.D
Acq: 8 Dec 10 11:20 pm

Tgt Ion: 94 Resp: 16176

Ion	Ratio	Lower	Upper
94	100		
65	18.1	1.0	61.0
66	70.3	8.1	68.1#

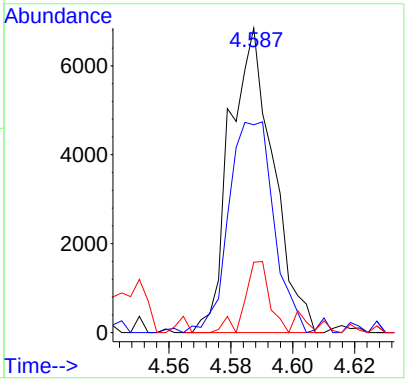


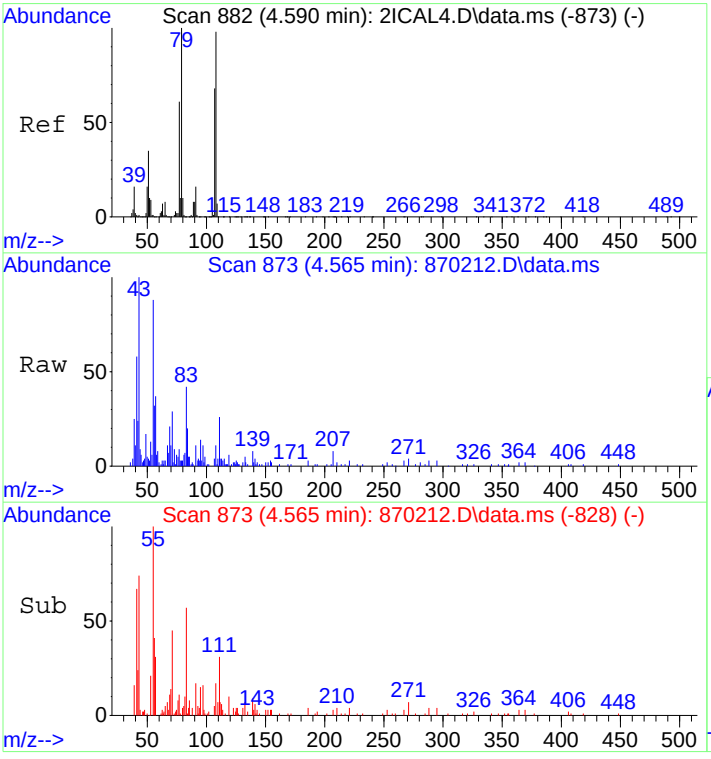


#12
12Diclbenz
Concen: 0.12 ug/mL
RT: 4.587 min Scan# 881
Delta R.T. 0.000 min
Lab File: 870212.D
Acq: 8 Dec 10 11:20 pm

Tgt Ion:146 Resp: 6691

Ion	Ratio	Lower	Upper
146	100		
148	68.3	29.2	89.2
113	19.3	0.0	42.9

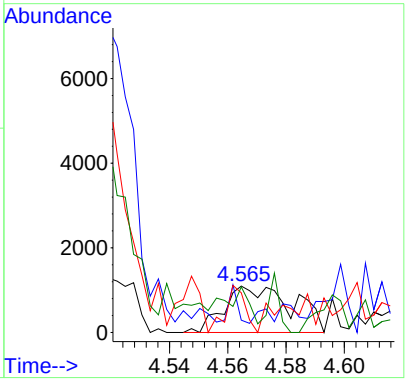


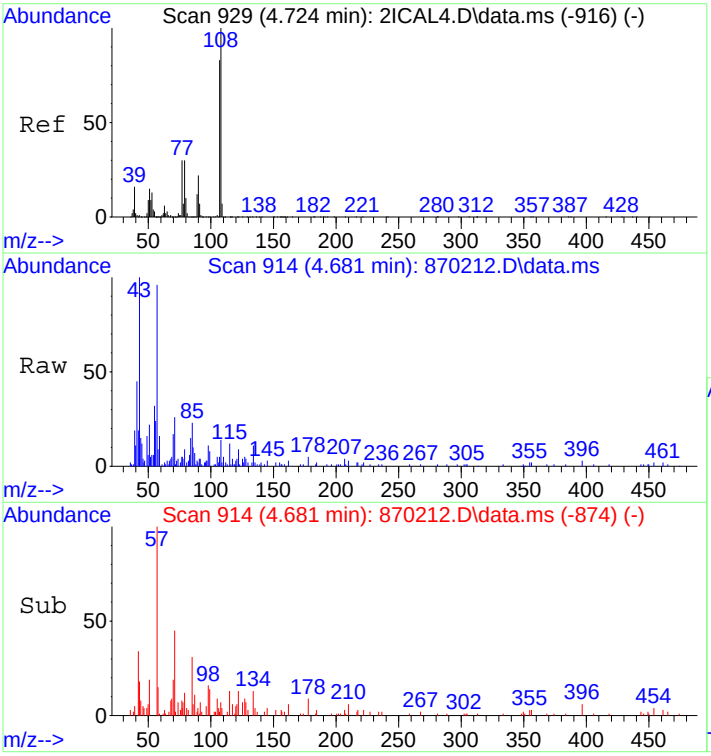


#13
Benzyl alcoho
Concen: 0.97 ug/mL
RT: 4.565 min Scan# 873
Delta R.T. 0.011 min
Lab File: 870212.D
Acq: 8 Dec 10 11:20 pm

Tgt Ion:108 Resp: 1797

Ion	Ratio	Lower	Upper
108	100		
79	3.5	104.2	164.2#
77	14.6	55.1	115.1#
91	49.7	0.0	50.3

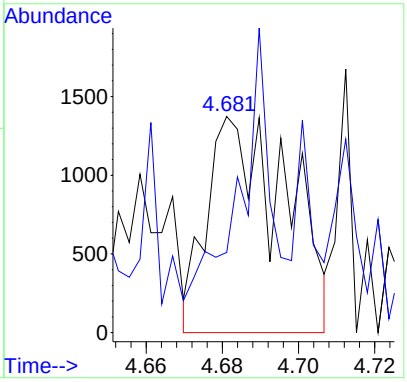


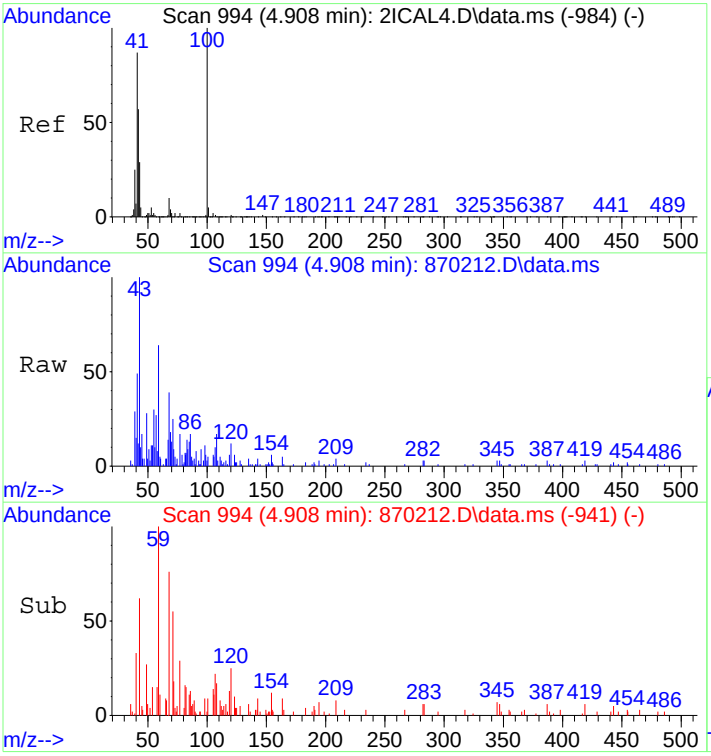


#15
2Methylphenol
Concen: 0.05 ug/mL
RT: 4.681 min Scan# 914
Delta R.T. -0.003 min
Lab File: 870212.D
Acq: 8 Dec 10 11:20 pm

Tgt Ion:108 Resp: 1987

Ion	Ratio	Lower	Upper
108	100		
107	26.4	57.3	117.3#

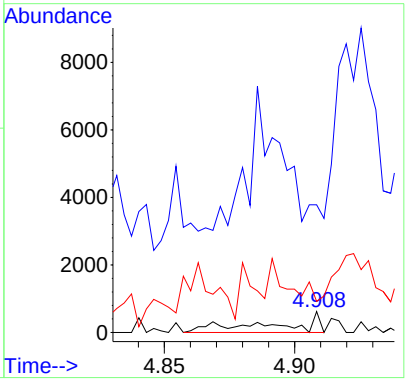


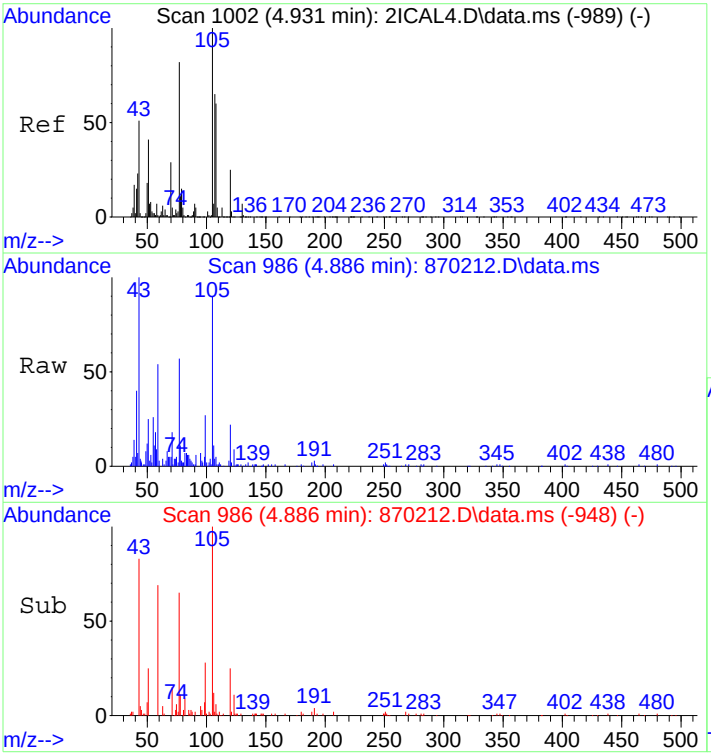


#16
Ntrspyrrol
Concen: 0.03 ug/mL
RT: 4.908 min Scan# 994
Delta R.T. 0.034 min
Lab File: 870212.D
Acq: 8 Dec 10 11:20 pm

Tgt Ion:100 Resp: 626

Ion	Ratio	Lower	Upper
100	100		
41	107.7	76.4	136.4
42	0.0	46.7	106.7#

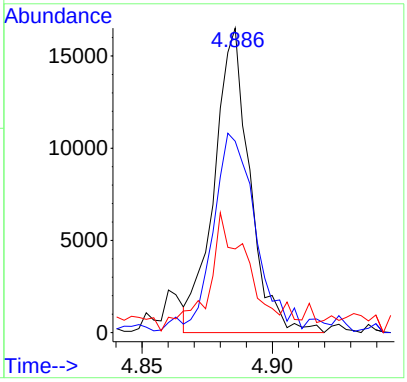


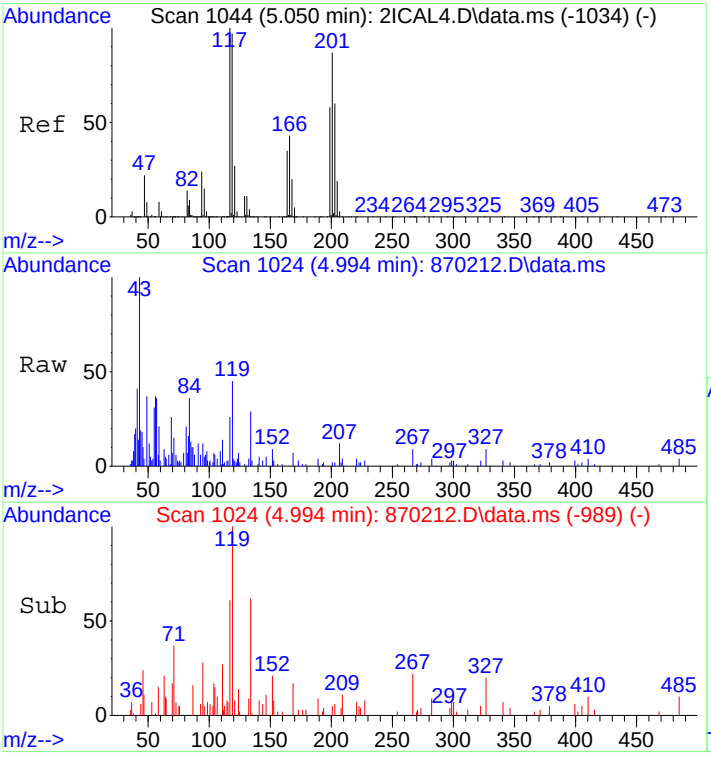


#17
Acetophenone
Concen: 0.25 ug/mL
RT: 4.886 min Scan# 986
Delta R.T. -0.008 min
Lab File: 870212.D
Acq: 8 Dec 10 11:20 pm

Tgt Ion:105 Resp: 15685

Ion	Ratio	Lower	Upper
105	100		
77	78.1	72.2	132.2
51	45.1	18.8	78.8

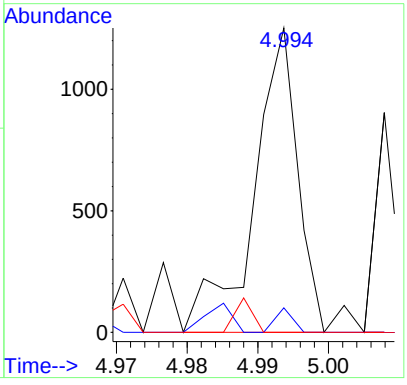


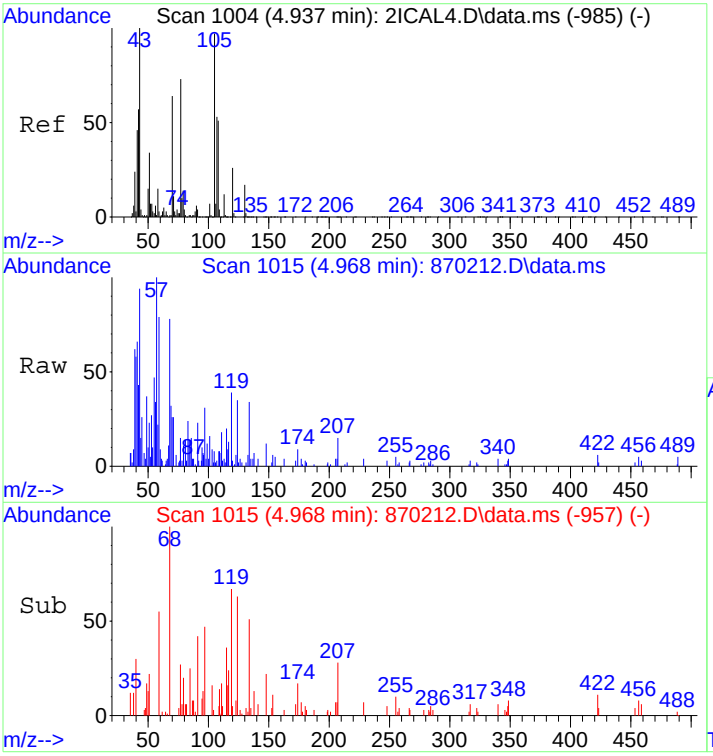


#18
Hexaclethane
Concen: 0.03 ug/mL
RT: 4.994 min Scan# 1024
Delta R.T. -0.017 min
Lab File: 870212.D
Acq: 8 Dec 10 11:20 pm

Tgt Ion:117 Resp: 538

Ion	Ratio	Lower	Upper
117	100		
201	8.1	64.1	124.1#
199	0.0	28.3	88.3#

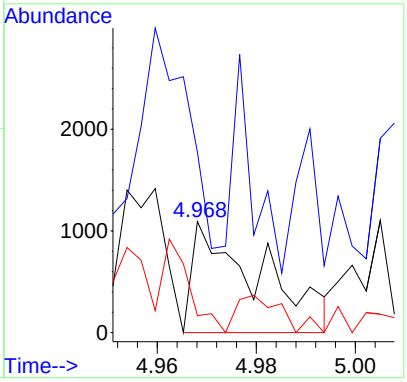


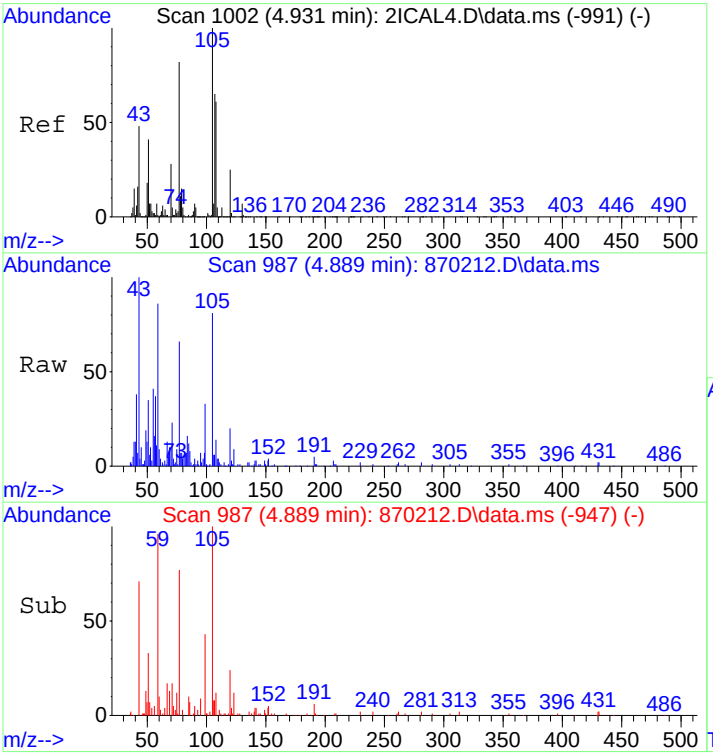


#19
N-Ntrsdinprop
Concen: 0.04 ug/mL
RT: 4.968 min Scan# 1015
Delta R.T. 0.065 min
Lab File: 870212.D
Acq: 8 Dec 10 11:20 pm

Tgt Ion: 70 Resp: 1022

Ion	Ratio	Lower	Upper
70	100		
42	102.0	54.3	114.3
113	15.2	0.0	43.5

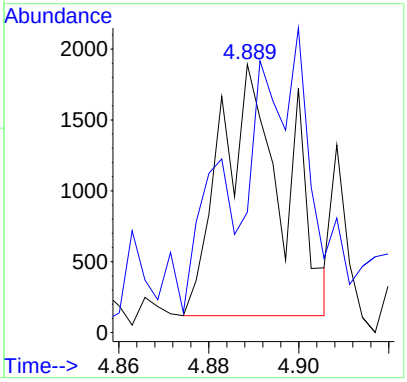


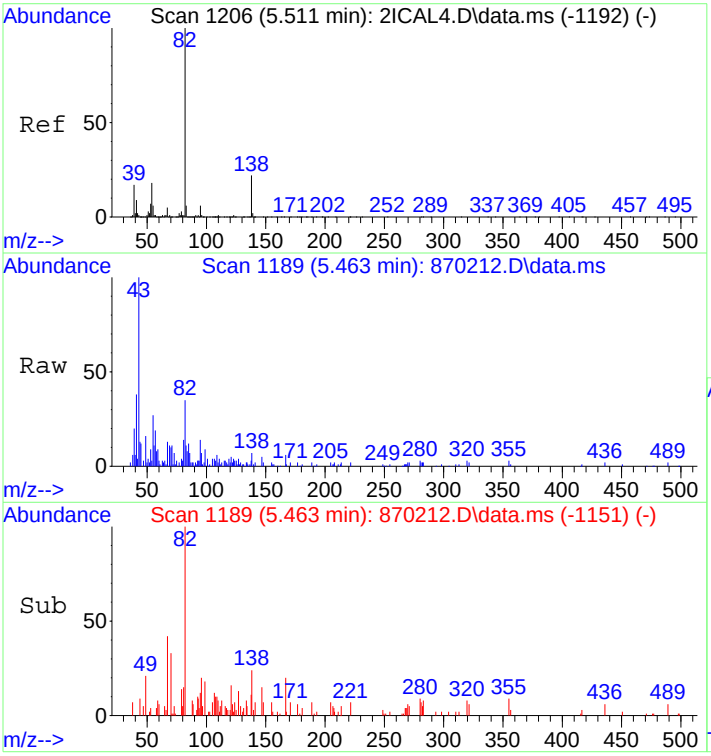


#20
3&4Methylphenol
Concen: 0.04 ug/mL
RT: 4.889 min Scan# 987
Delta R.T. -0.006 min
Lab File: 870212.D
Acq: 8 Dec 10 11:20 pm

Tgt Ion:108 Resp: 1749

Ion	Ratio	Lower	Upper
108	100		
107	40.0	74.6	134.6#

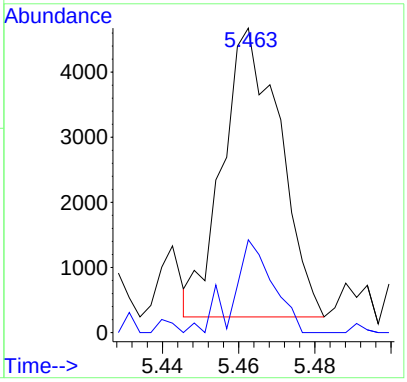


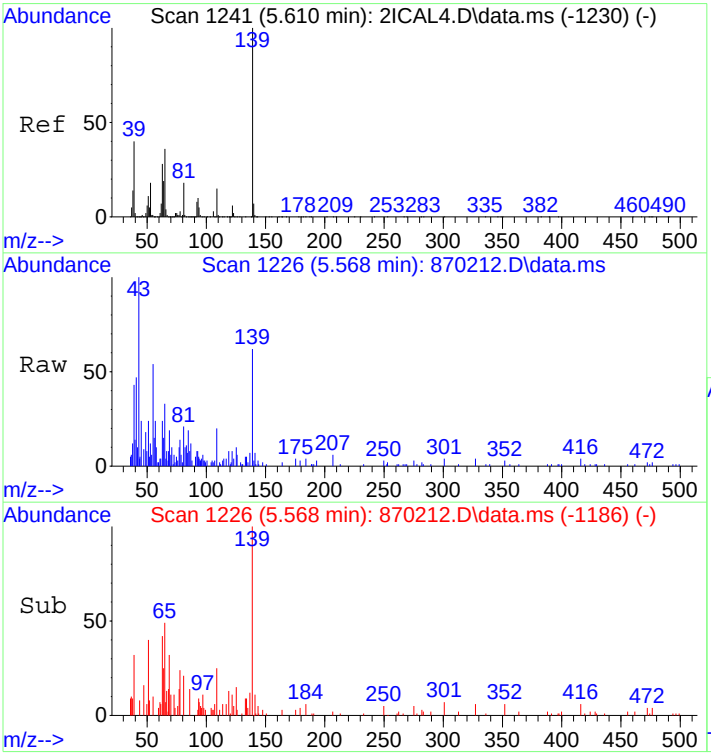


#24
Isophorone
Concen: 0.06 ug/mL
RT: 5.463 min Scan# 1189
Delta R.T. -0.011 min
Lab File: 870212.D
Acq: 8 Dec 10 11:20 pm

Tgt Ion: 82 Resp: 4641

Ion	Ratio	Lower	Upper
82	100		
138	32.2	0.0	48.8

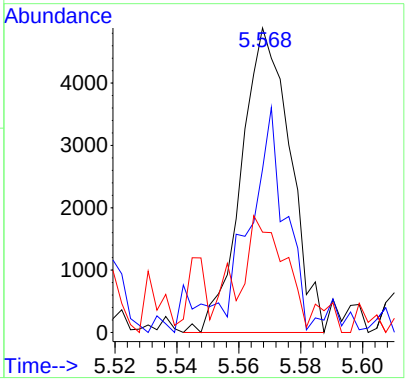


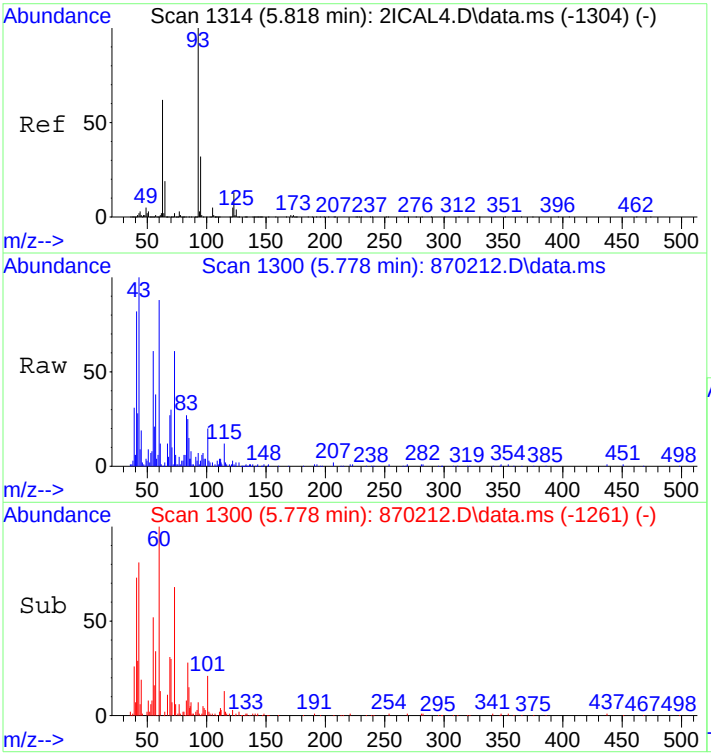


#25
2-Nitrophenol
Concen: 0.20 ug/mL
RT: 5.568 min Scan# 1226
Delta R.T. -0.003 min
Lab File: 870212.D
Acq: 8 Dec 10 11:20 pm

Tgt Ion:139 Resp: 5356

Ion	Ratio	Lower	Upper
139	100		
65	46.6	20.9	80.9
109	28.6	0.0	57.4

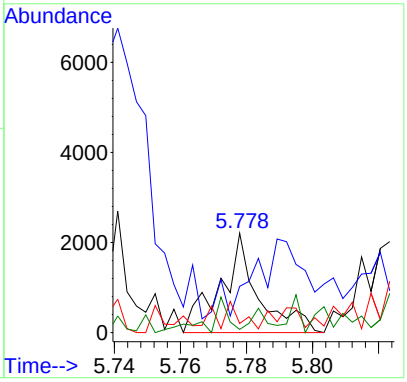


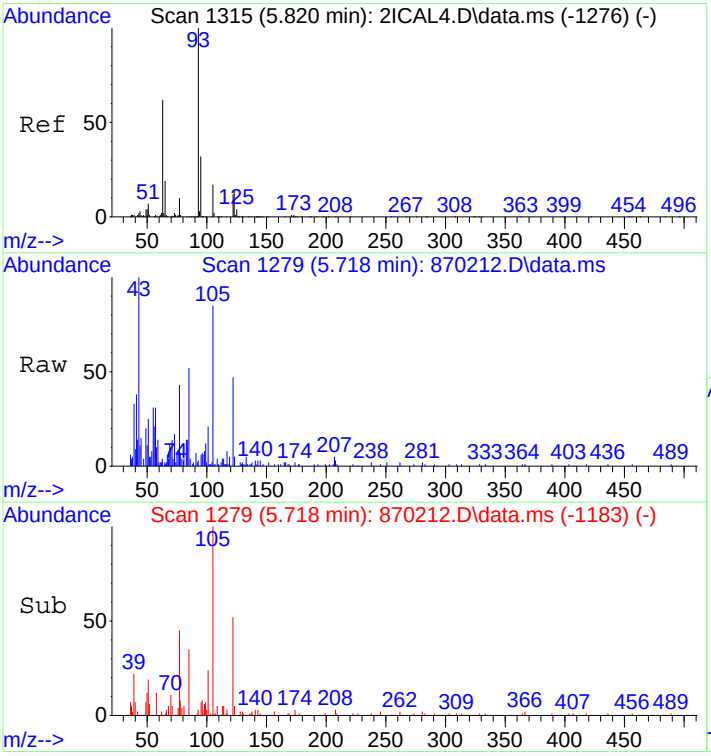


#27
bis2clethoxym
Concen: 0.03 ug/mL
RT: 5.778 min Scan# 1300
Delta R.T. -0.006 min
Lab File: 870212.D
Acq: 8 Dec 10 11:20 pm

Tgt Ion: 93 Resp: 1762

Ion	Ratio	Lower	Upper
93	100		
95	13.3	1.9	61.9
123	0.0	0.0	42.6
63	0.0	46.9	106.9#

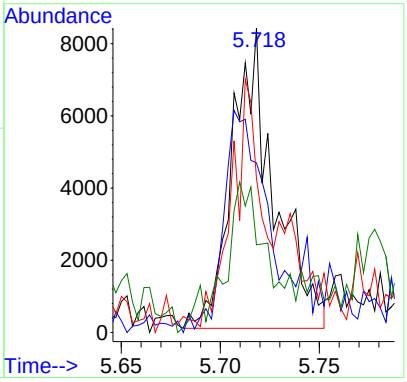


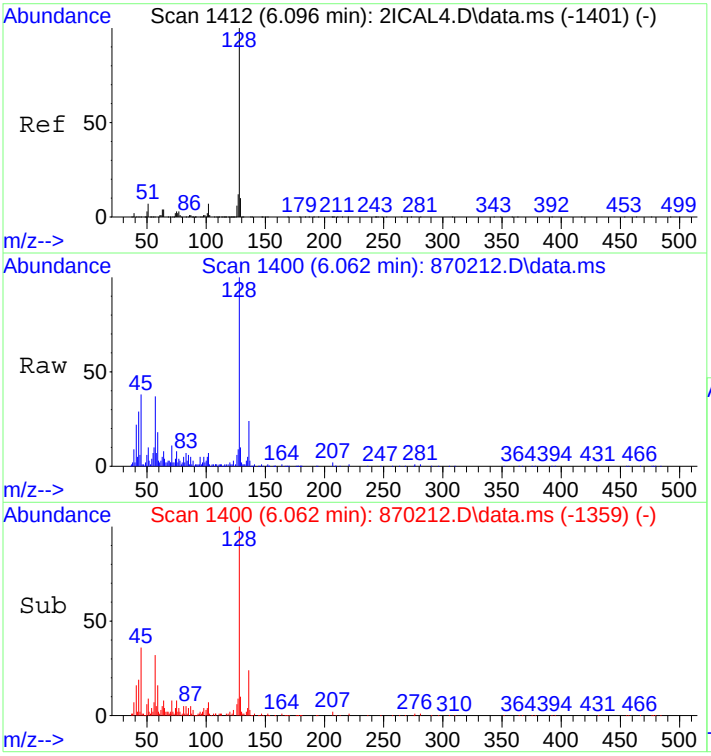


#30
Benzoic acid
Concen: 3.31 ug/mL
RT: 5.718 min Scan# 1279
Delta R.T. -0.002 min
Lab File: 870212.D
Acq: 8 Dec 10 11:20 pm

Tgt Ion:105 Resp: 12354

Ion	Ratio	Lower	Upper
105	100		
122	56.5	54.1	114.1
77	53.8	45.9	105.9
51	27.4	17.6	77.6

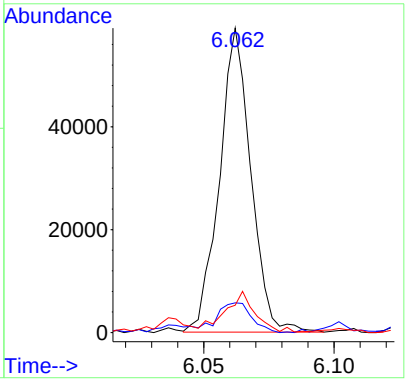


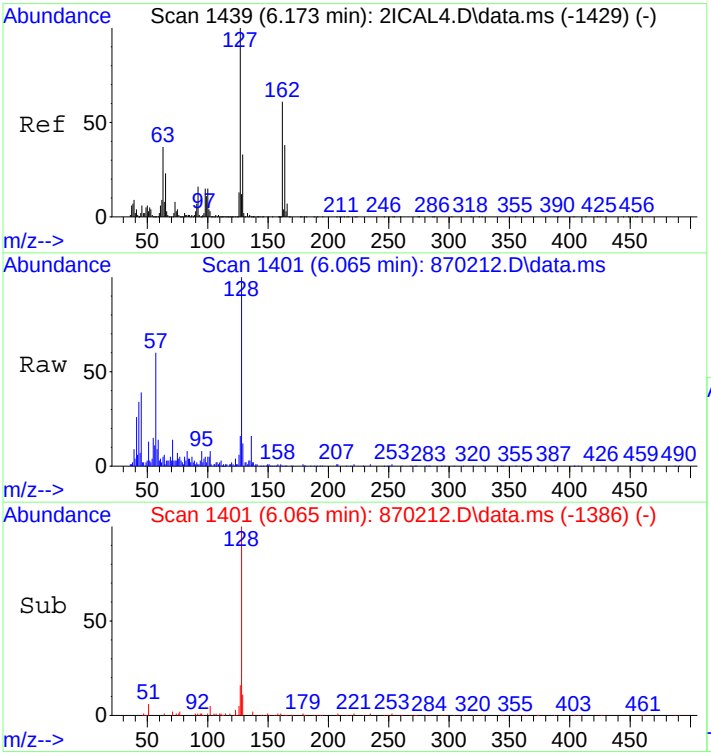


#31
Naphthalene
Concen: 0.33 ug/mL
RT: 6.062 min Scan# 1400
Delta R.T. 0.000 min
Lab File: 870212.D
Acq: 8 Dec 10 11:20 pm

Tgt Ion:128 Resp: 49626

Ion	Ratio	Lower	Upper
128	100		
129	8.3	0.0	40.3
127	8.0	0.0	41.9

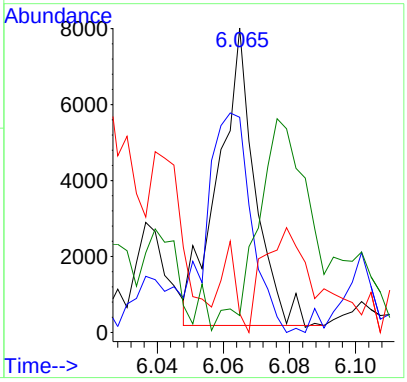


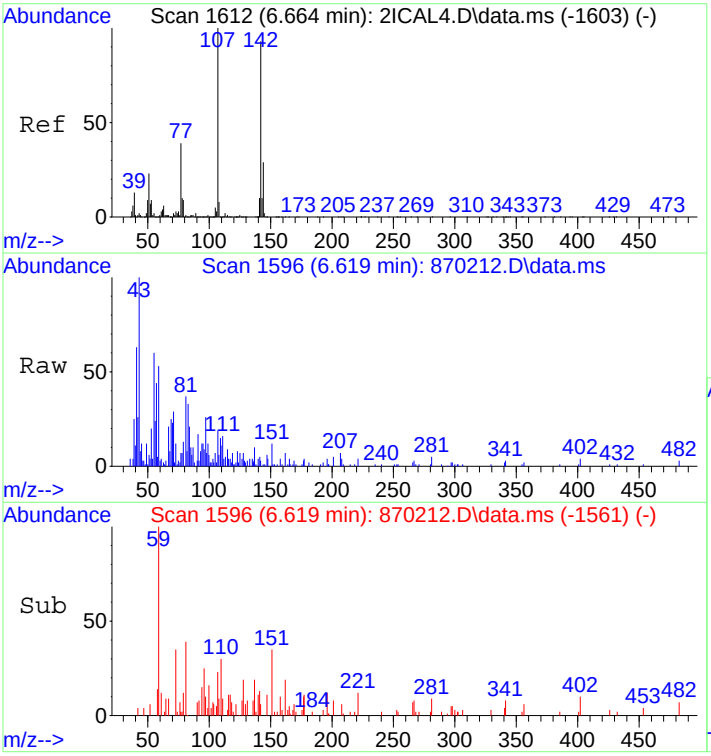


#32
4-Cl-aniline
Concen: 0.11 ug/mL
RT: 6.065 min Scan# 1401
Delta R.T. -0.074 min
Lab File: 870212.D
Acq: 8 Dec 10 11:20 pm

Tgt Ion:127 Resp: 6084

Ion	Ratio	Lower	Upper
127	100		
129	70.8	1.8	61.8#
65	11.2	1.6	61.6
92	0.0	0.0	48.2

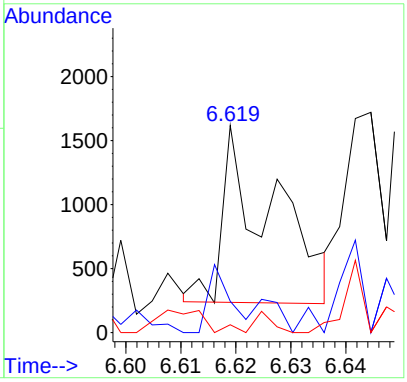


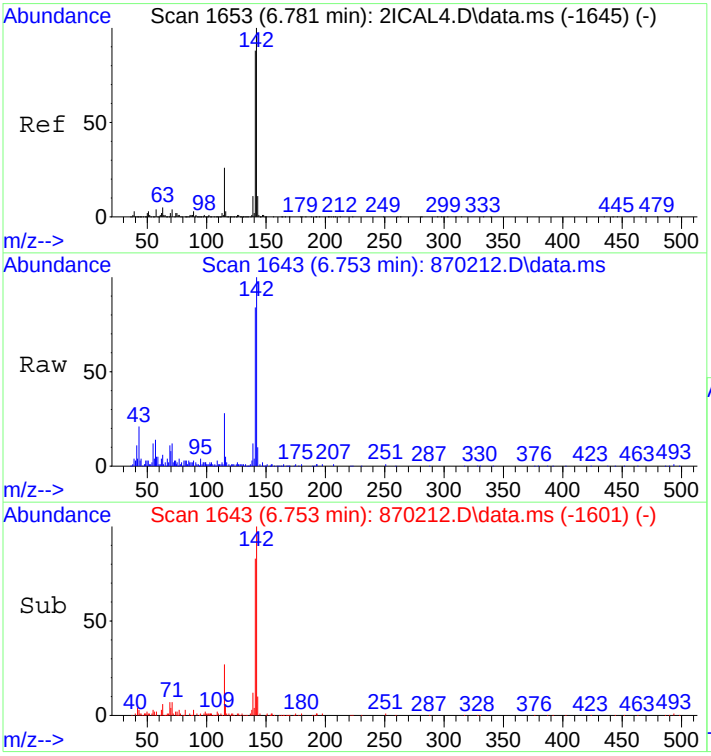


#36
4Cl3methylphe
Concen: 0.02 ug/mL
RT: 6.619 min Scan# 1596
Delta R.T. -0.017 min
Lab File: 870212.D
Acq: 8 Dec 10 11:20 pm

Tgt Ion:107 Resp: 878

Ion	Ratio	Lower	Upper
107	100		
142	18.6	50.0	110.0#
144	0.0	0.0	56.8

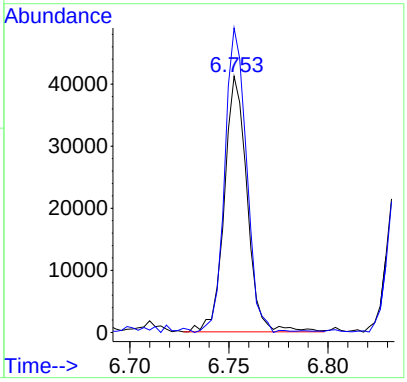


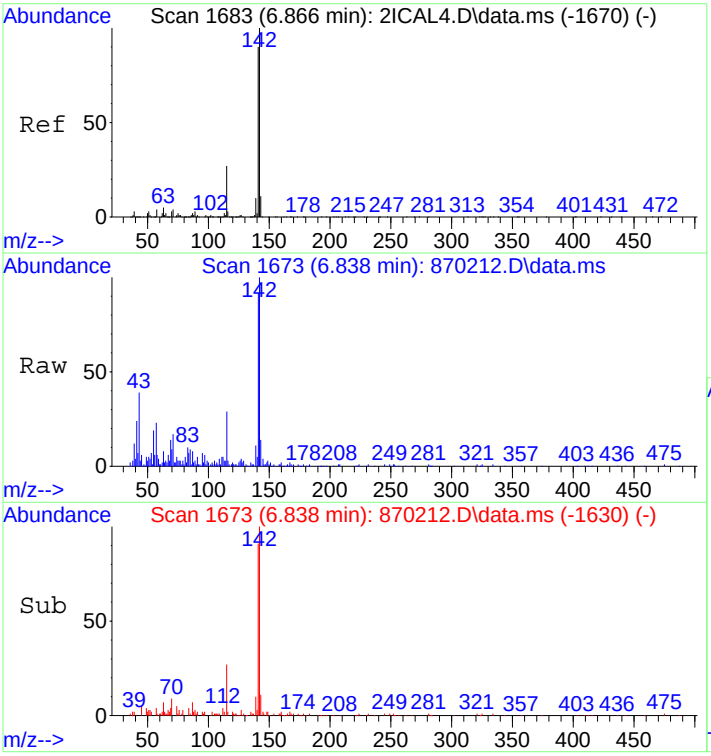


#37
2Methylnaphth
Concen: 0.39 ug/mL
RT: 6.753 min Scan# 1643
Delta R.T. 0.003 min
Lab File: 870212.D
Acq: 8 Dec 10 11:20 pm

Tgt Ion:141 Resp: 32975

Ion	Ratio	Lower	Upper
141	100		
142	118.8	83.7	143.7

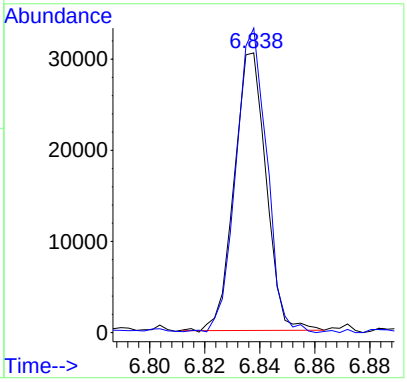


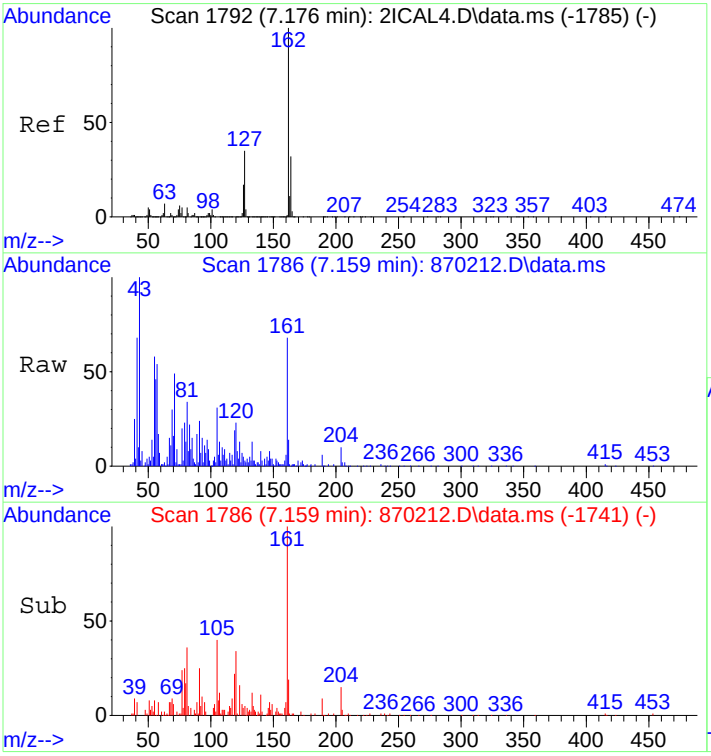


#38
1Methylnaphth
Concen: 0.28 ug/mL
RT: 6.838 min Scan# 1673
Delta R.T. 0.003 min
Lab File: 870212.D
Acq: 8 Dec 10 11:20 pm

Tgt Ion:141 Resp: 24519

Ion	Ratio	Lower	Upper
141	100		
142	109.6	79.5	139.5

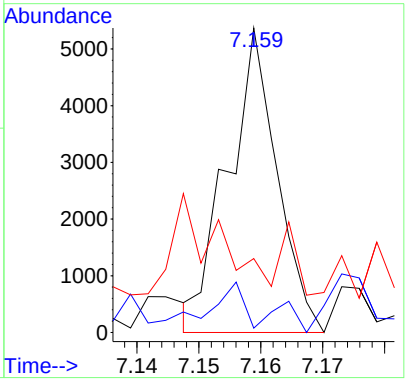


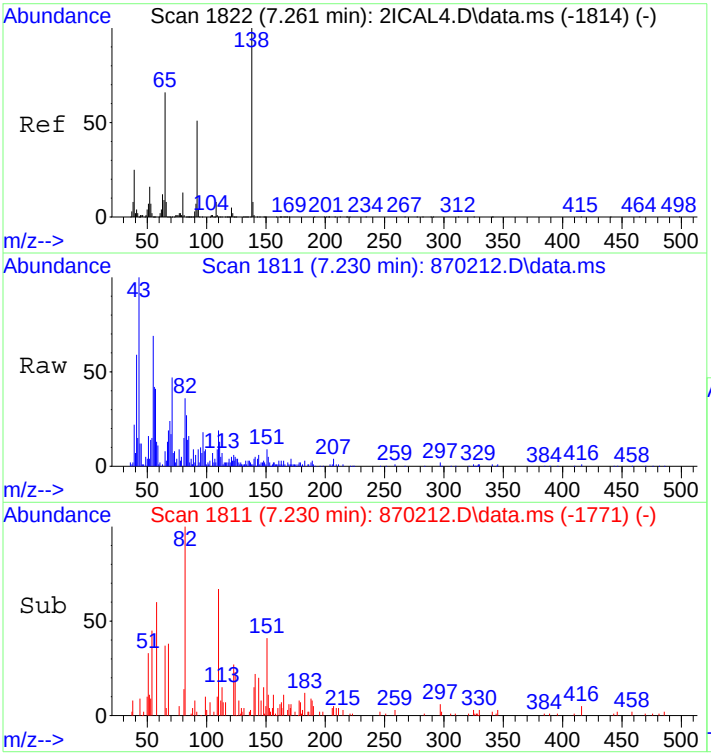


#45
2Clnaphthalen
Concen: 0.03 ug/mL
RT: 7.159 min Scan# 1786
Delta R.T. 0.011 min
Lab File: 870212.D
Acq: 8 Dec 10 11:20 pm

Tgt Ion:162 Resp: 2967

Ion	Ratio	Lower	Upper
162	100		
164	0.0	2.5	62.5#
127	11.2	7.1	67.1

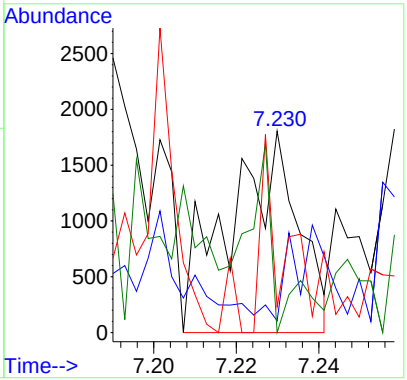


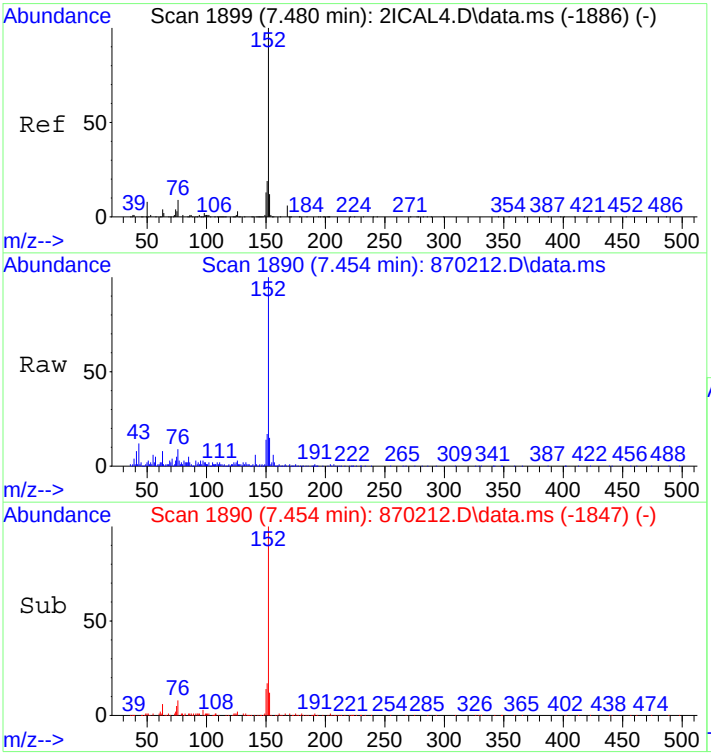


#46
2Nitroaniline
Concen: 0.09 ug/mL
RT: 7.230 min Scan# 1811
Delta R.T. -0.003 min
Lab File: 870212.D
Acq: 8 Dec 10 11:20 pm

Tgt Ion: 65 Resp: 2110

Ion	Ratio	Lower	Upper
65	100		
92	0.0	32.1	92.1#
138	0.0	73.8	133.8#
80	0.0	0.0	55.1

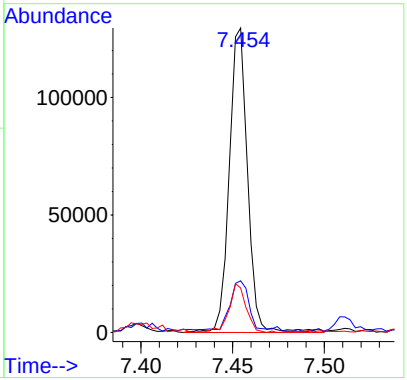


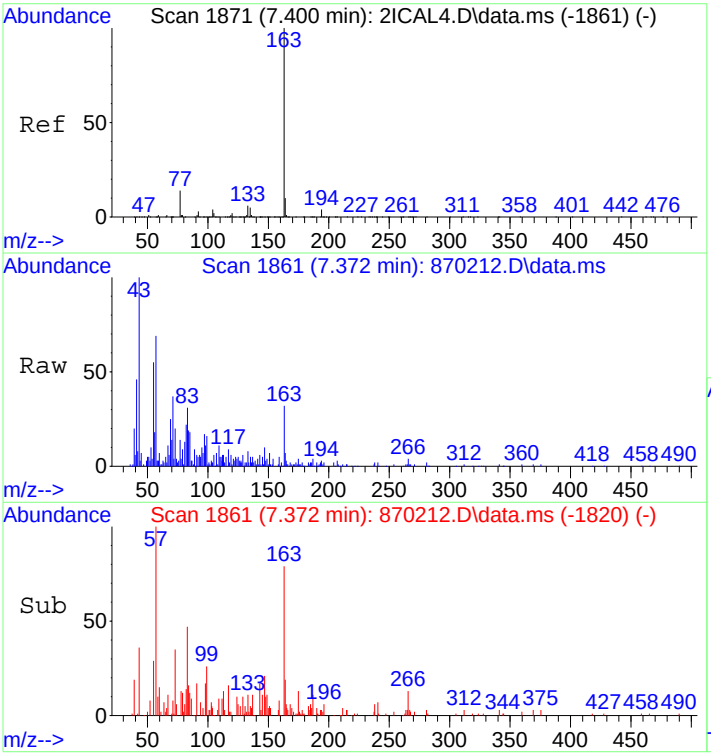


#47
Acnaphthylene
Concen: 0.51 ug/mL
RT: 7.454 min Scan# 1890
Delta R.T. 0.006 min
Lab File: 870212.D
Acq: 8 Dec 10 11:20 pm

Tgt Ion:152 Resp: 90325

Ion	Ratio	Lower	Upper
152	100		
151	16.5	0.0	49.5
153	14.2	0.0	43.0

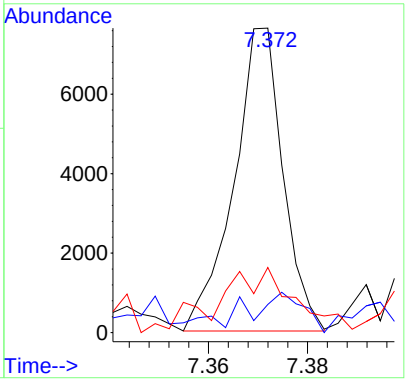


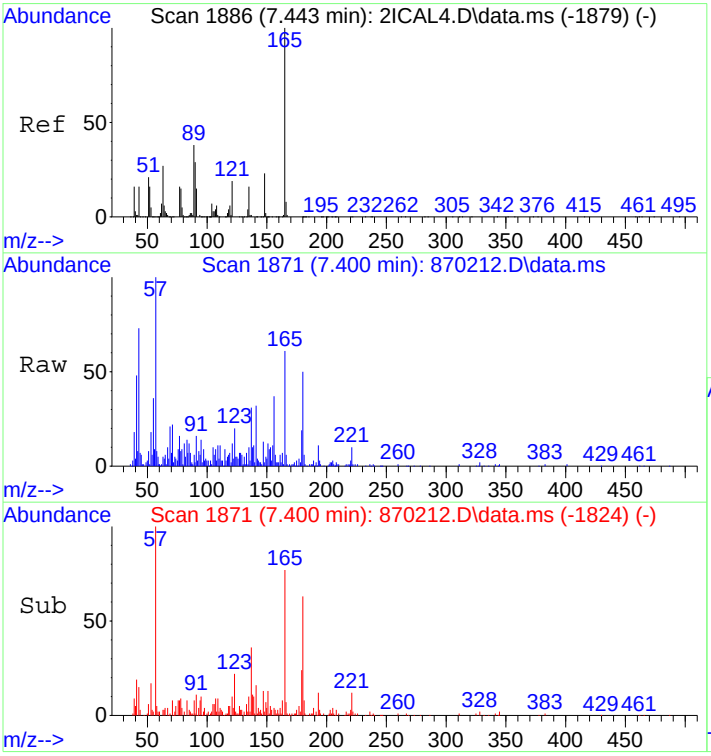


#48
Dimethylphtha
Concen: 0.04 ug/mL
RT: 7.372 min Scan# 1861
Delta R.T. 0.000 min
Lab File: 870212.D
Acq: 8 Dec 10 11:20 pm

Tgt Ion:163 Resp: 5278

Ion	Ratio	Lower	Upper
163	100		
194	9.3	0.0	34.0
164	24.6	0.0	40.3

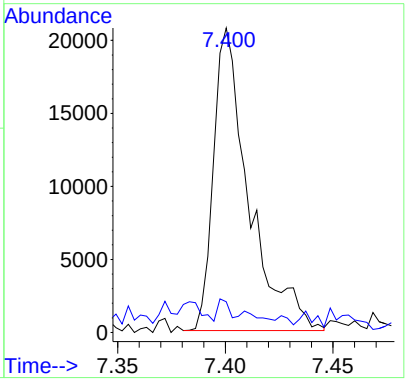


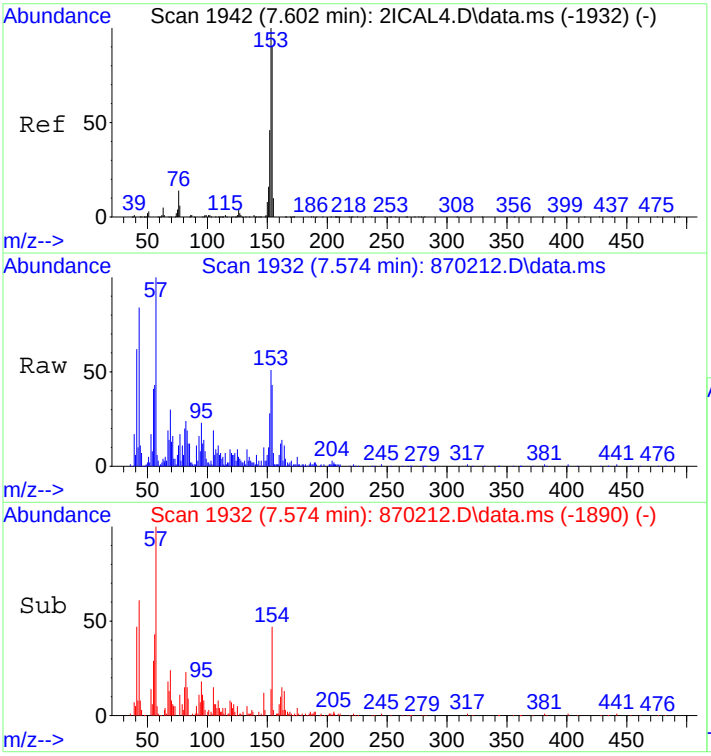


#49
26Dinitrotolu
Concen: 0.91 ug/mL
RT: 7.400 min Scan# 1871
Delta R.T. -0.011 min
Lab File: 870212.D
Acq: 8 Dec 10 11:20 pm

Tgt Ion:165 Resp: 23689

Ion	Ratio	Lower	Upper
165	100		
89	8.4	20.8	80.8#

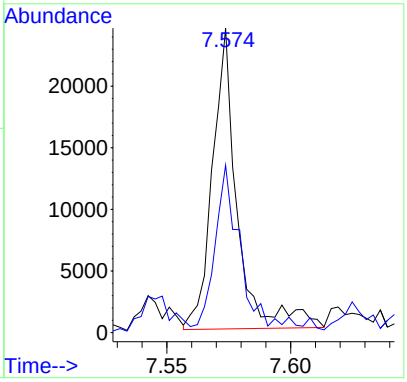


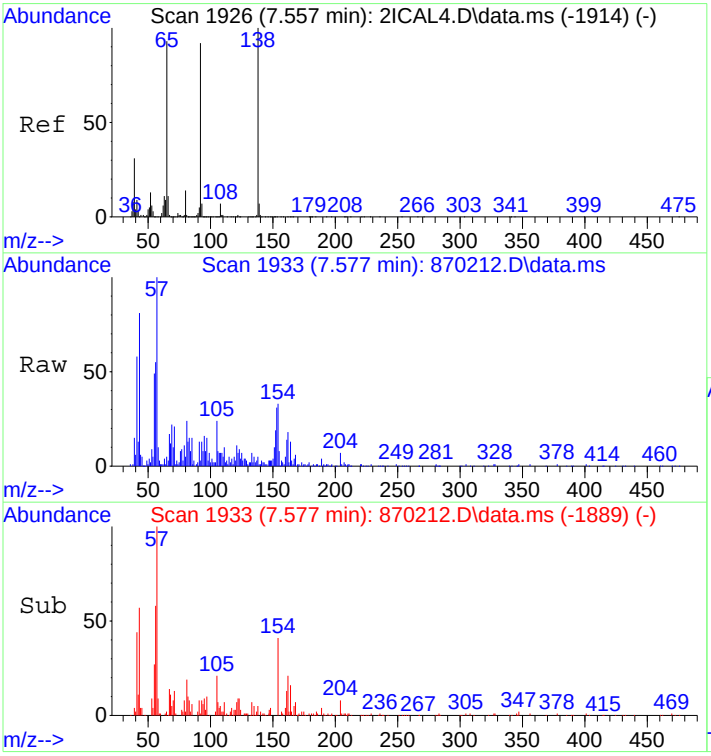


#50
Acenaphthene
Concen: 0.15 ug/mL
RT: 7.574 min Scan# 1932
Delta R.T. 0.003 min
Lab File: 870212.D
Acq: 8 Dec 10 11:20 pm

Tgt Ion:153 Resp: 16951

Ion	Ratio	Lower	Upper
153	100		
152	55.4	15.5	75.5

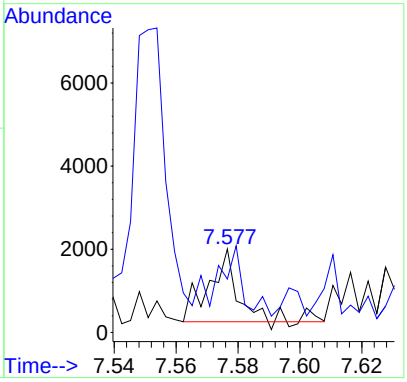


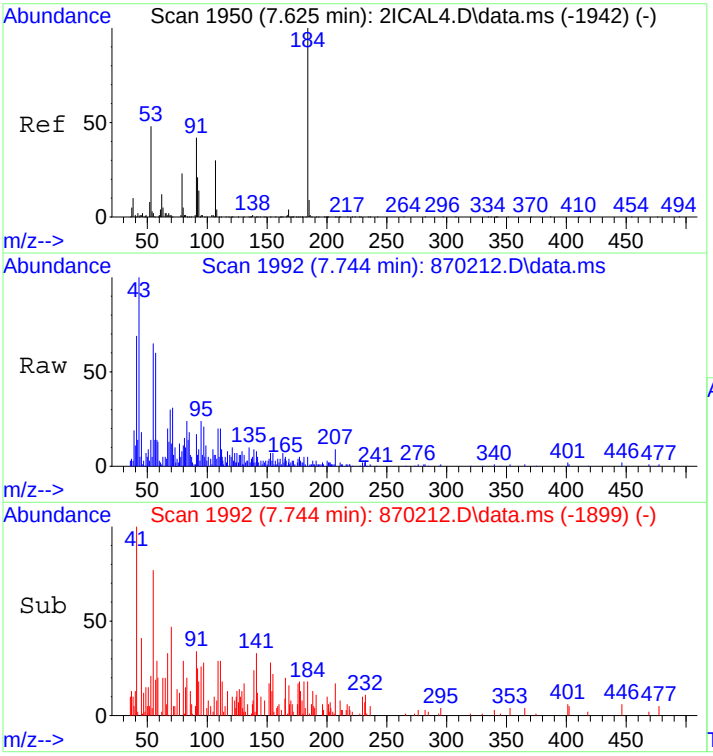


#51
3Nitroaniline
Concen: 0.04 ug/mL
RT: 7.577 min Scan# 1933
Delta R.T. 0.051 min
Lab File: 870212.D
Acq: 8 Dec 10 11:20 pm

Tgt Ion:138 Resp: 1177

Ion	Ratio	Lower	Upper
138	100		
92	19.1	74.6	134.6#

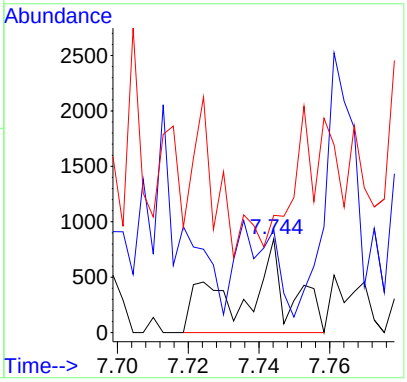


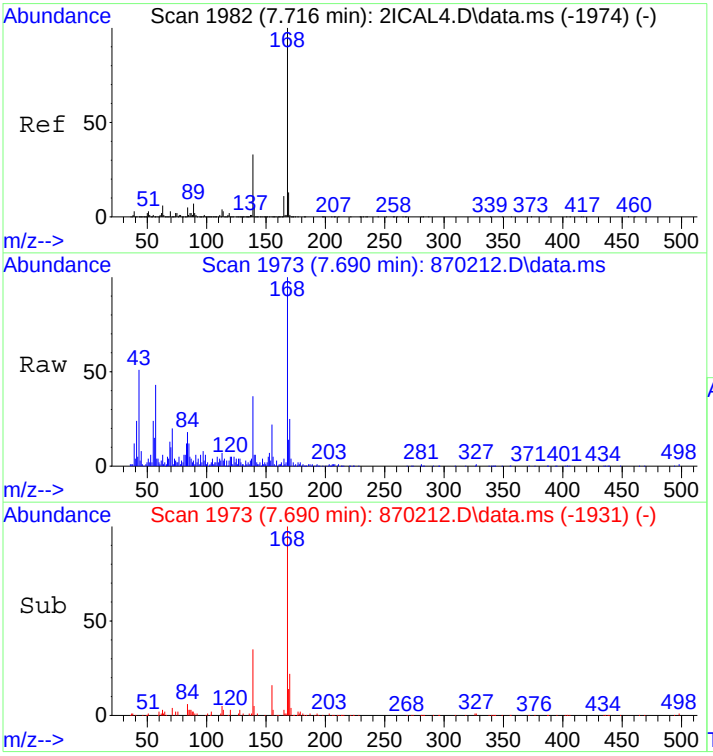


#52
24Dinitphenol
Concen: 2.42 ug/mL
RT: 7.744 min Scan# 1992
Delta R.T. 0.148 min
Lab File: 870212.D
Acq: 8 Dec 10 11:20 pm

Tgt Ion:184 Resp: 814

Ion	Ratio	Lower	Upper
184	100		
63	101.1	44.6	104.6
107	115.5	13.0	73.0#

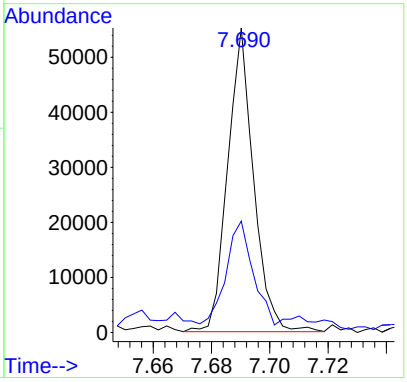


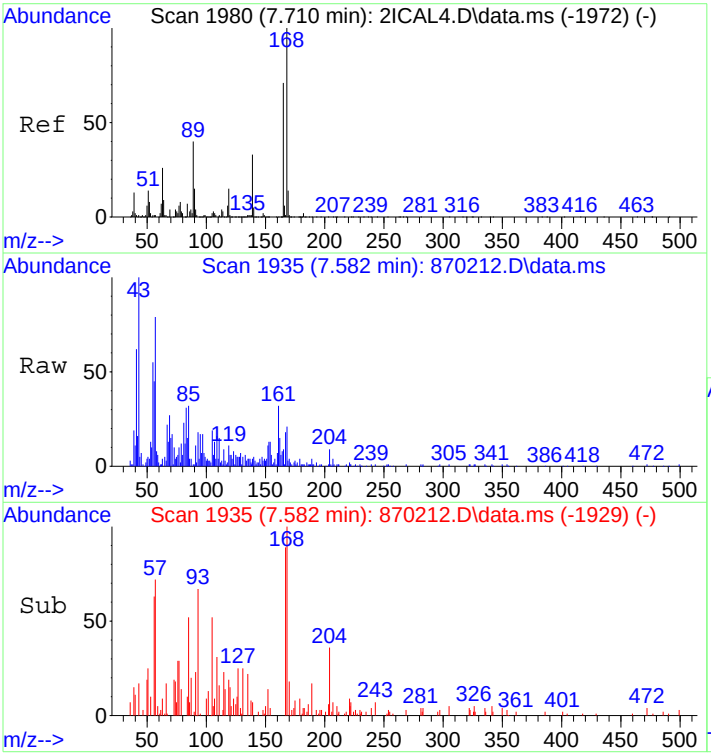


#53
Dibenzofuran
Concen: 0.24 ug/mL
RT: 7.690 min Scan# 1973
Delta R.T. 0.003 min
Lab File: 870212.D
Acq: 8 Dec 10 11:20 pm

Tgt Ion:168 Resp: 34095

Ion	Ratio	Lower	Upper
168	100		
139	32.9	7.1	67.1

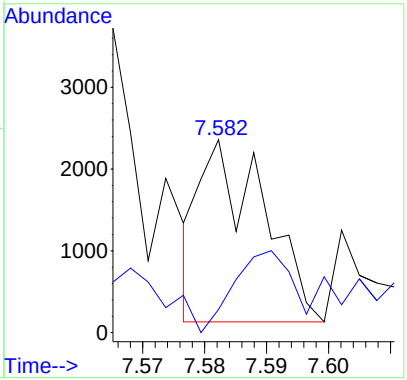


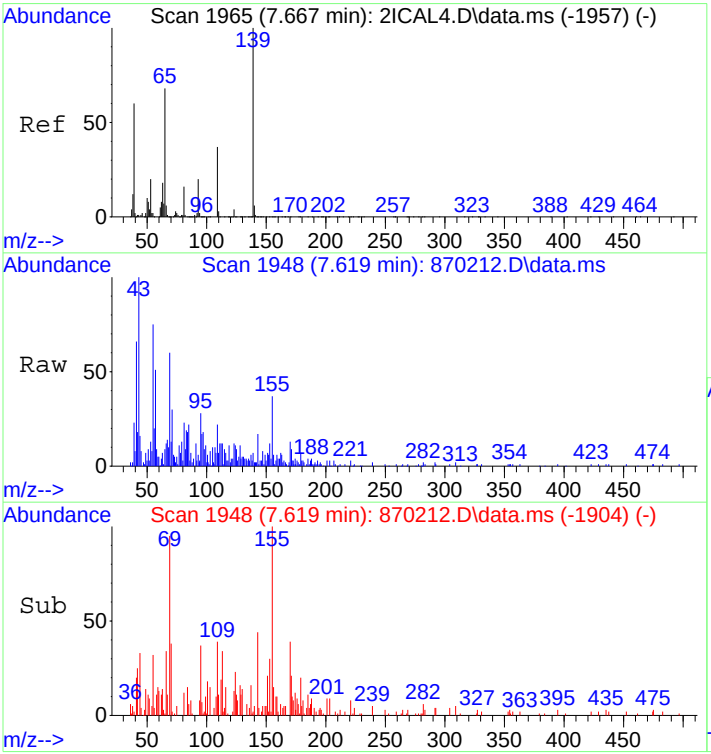


#54
24Dinitrotolu
Concen: 0.05 ug/mL
RT: 7.582 min Scan# 1935
Delta R.T. -0.099 min
Lab File: 870212.D
Acq: 8 Dec 10 11:20 pm

Tgt Ion:165 Resp: 1614

Ion	Ratio	Lower	Upper
165	100		
89	0.0	41.4	101.4#

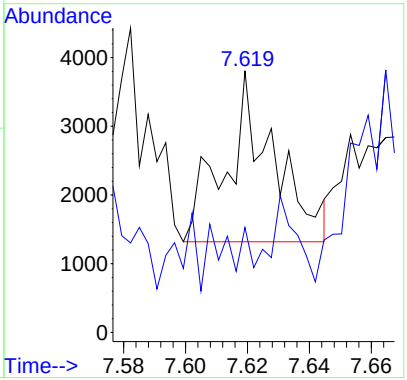


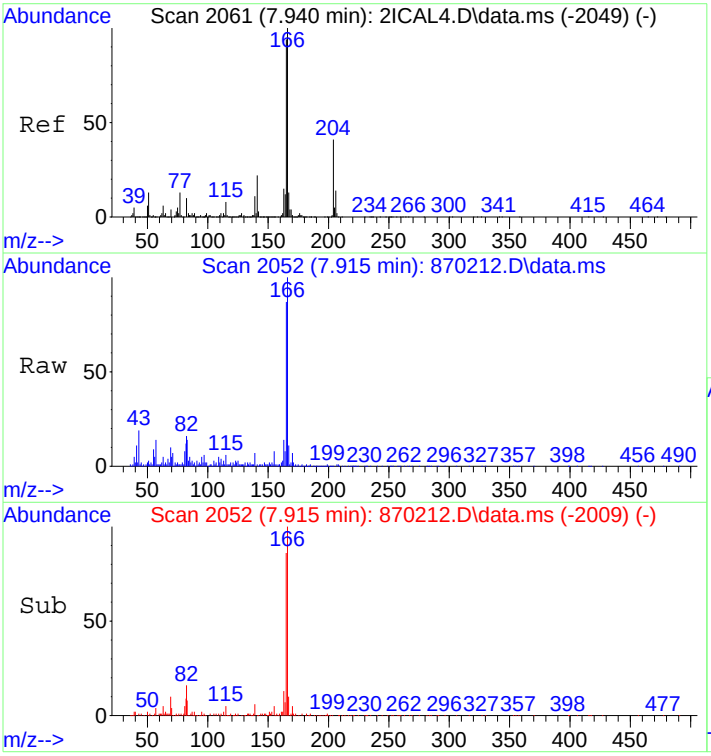


#55
4-Nitrophenol
Concen: 0.30 ug/mL
RT: 7.619 min Scan# 1948
Delta R.T. -0.020 min
Lab File: 870212.D
Acq: 8 Dec 10 11:20 pm

Tgt Ion:109 Resp: 2696

Ion	Ratio	Lower	Upper
109	100		
65	23.9	123.5	183.5#

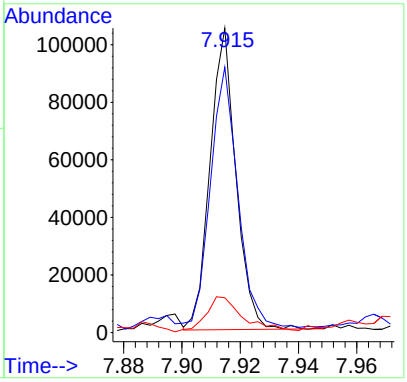


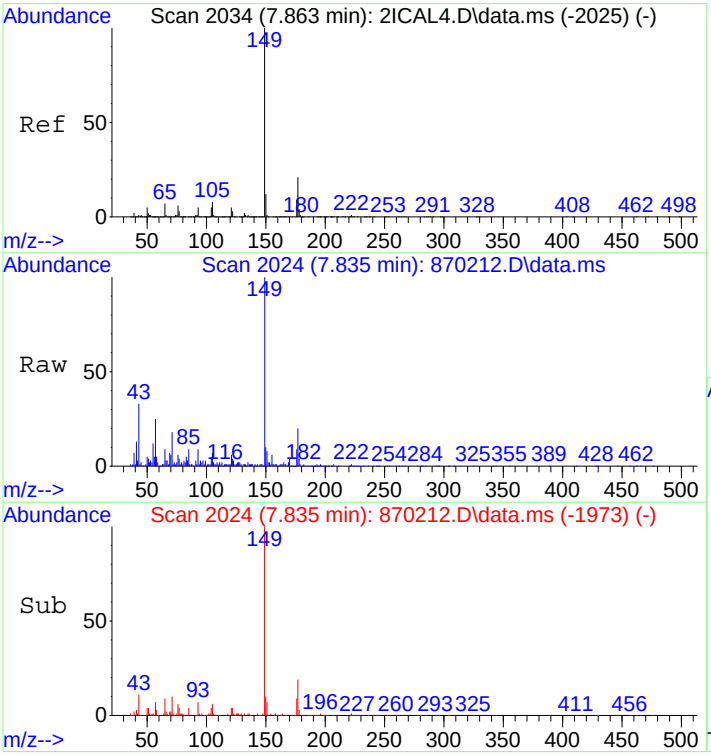


#58
Fluorene
Concen: 0.56 ug/mL
RT: 7.915 min Scan# 2052
Delta R.T. 0.006 min
Lab File: 870212.D
Acq: 8 Dec 10 11:20 pm

Tgt Ion:166 Resp: 64633

Ion	Ratio	Lower	Upper
166	100		
165	86.2	64.5	124.5
167	10.6	0.0	42.6

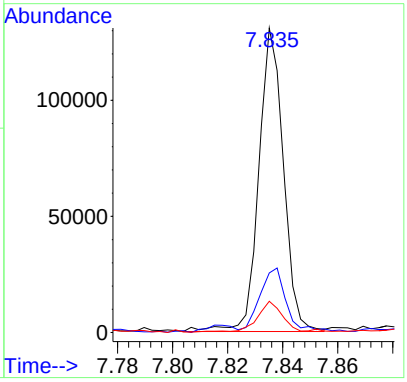


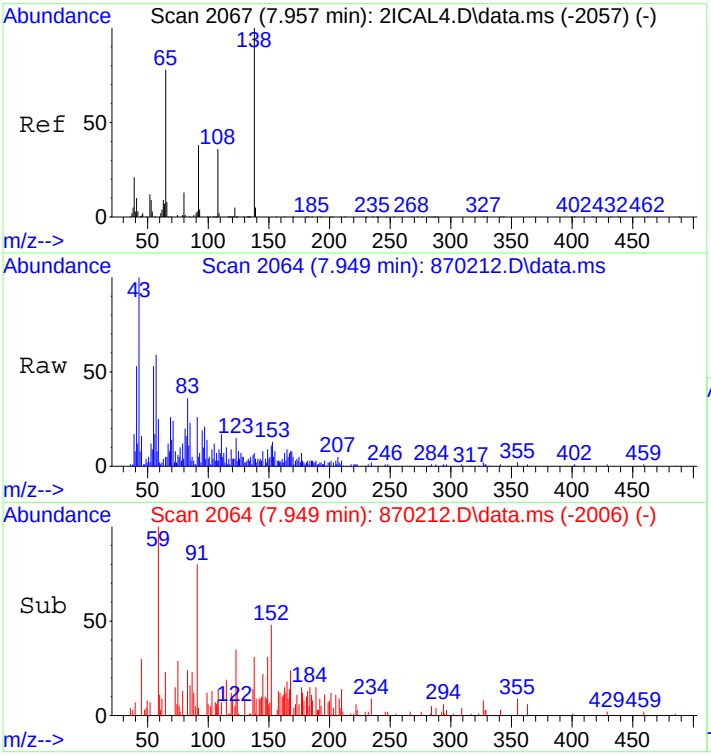


#60
Diethylphthal
Concen: 0.67 ug/mL
RT: 7.835 min Scan# 2024
Delta R.T. 0.000 min
Lab File: 870212.D
Acq: 8 Dec 10 11:20 pm

Tgt Ion:149 Resp: 81436

Ion	Ratio	Lower	Upper
149	100		
177	19.1	0.0	52.2
150	10.1	0.0	42.5

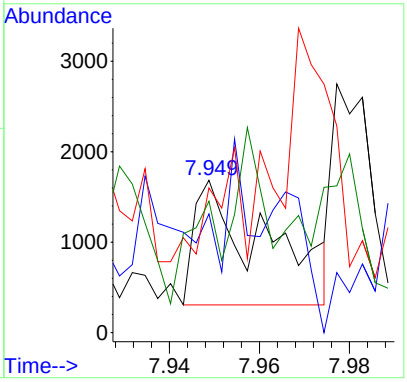


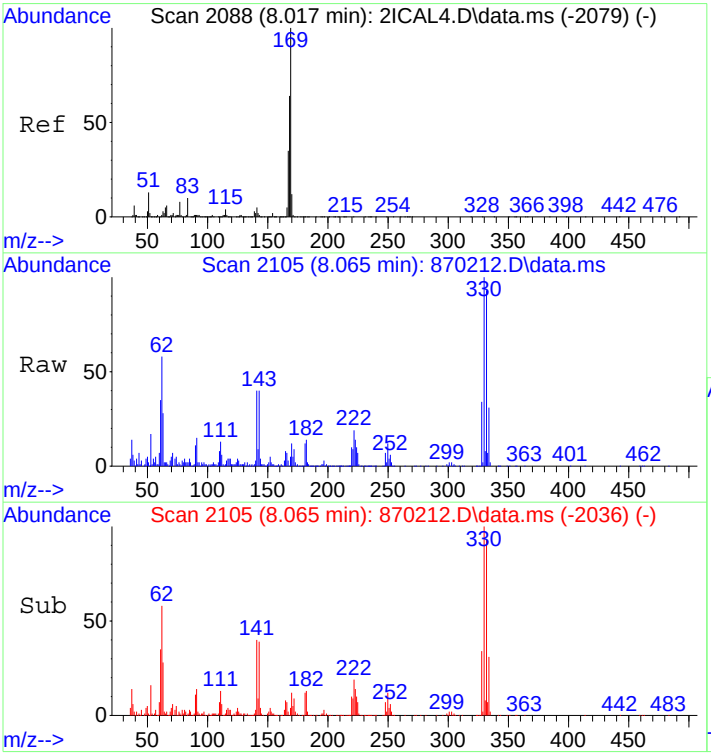


#61
4Nitroaniline
Concen: 0.05 ug/mL
RT: 7.949 min Scan# 2064
Delta R.T. 0.020 min
Lab File: 870212.D
Acq: 8 Dec 10 11:20 pm

Tgt Ion:138 Resp: 1494

Ion	Ratio	Lower	Upper
138	100		
92	95.2	19.9	79.9#
108	39.9	39.4	99.4
139	26.1	0.0	41.3

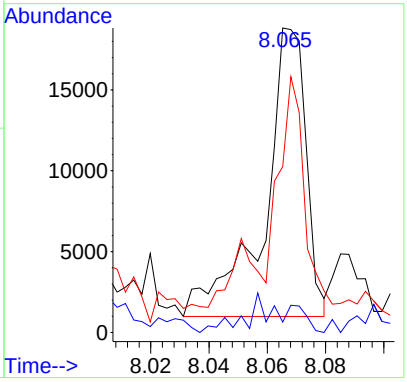


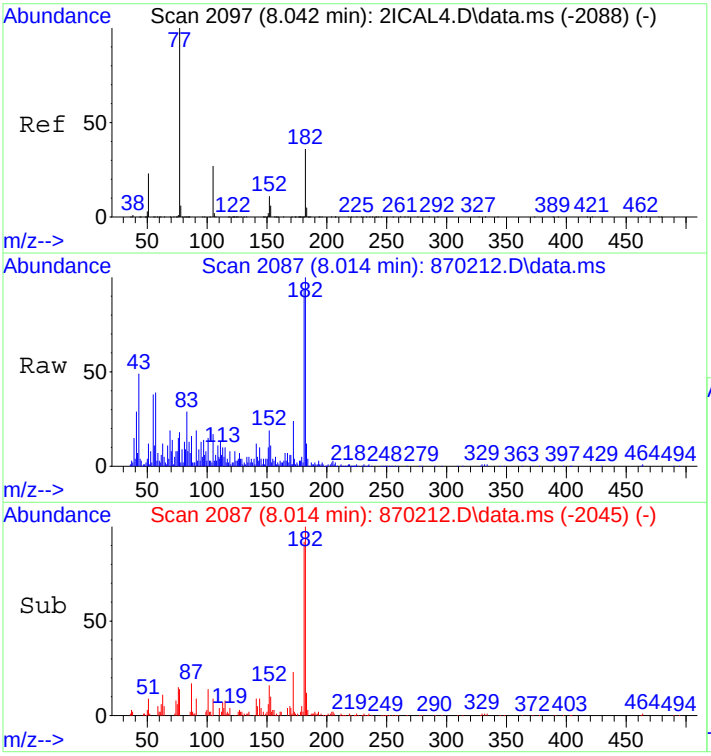


#65
Ntrsdiphlam&Diphlam
Concen: 0.23 ug/mL
RT: 8.065 min Scan# 2105
Delta R.T. 0.080 min
Lab File: 870212.D
Acq: 8 Dec 10 11:20 pm

Tgt Ion:169 Resp: 17891

Ion	Ratio	Lower	Upper
169	100		
168	3.6	34.8	94.8#
167	49.2	4.6	64.6

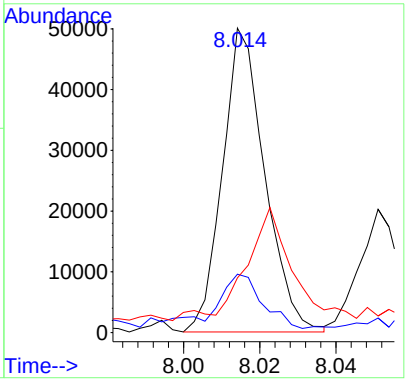


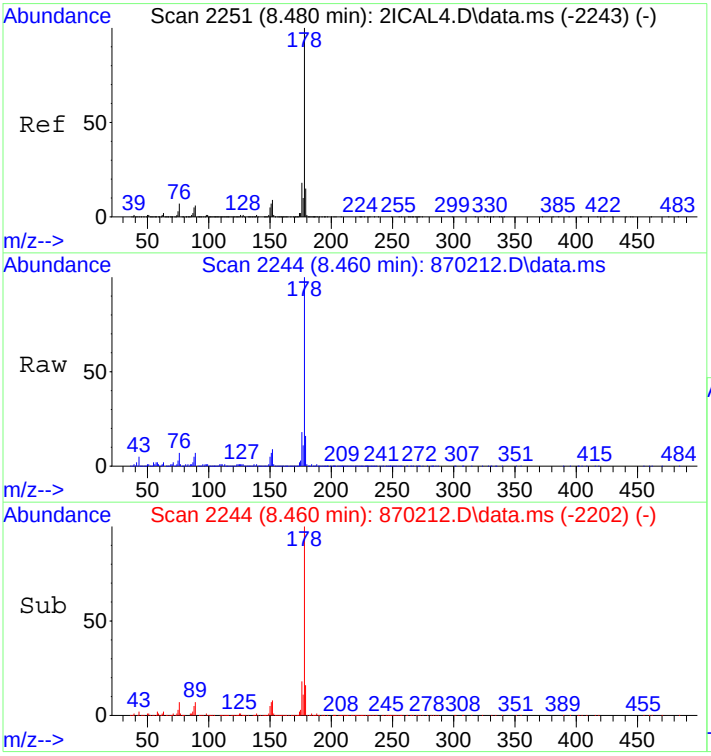


#66
Azobenz&12Diphlhyd
Concen: 1.31 ug/mL
RT: 8.014 min Scan# 2087
Delta R.T. 0.003 min
Lab File: 870212.D
Acq: 8 Dec 10 11:20 pm

Tgt Ion:182 Resp: 38758

Ion	Ratio	Lower	Upper
182	100		
152	17.3	3.5	63.5
77	11.3	348.6	408.6#

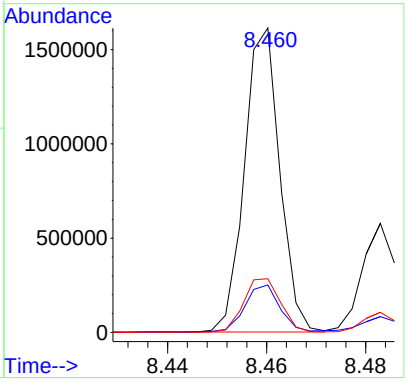


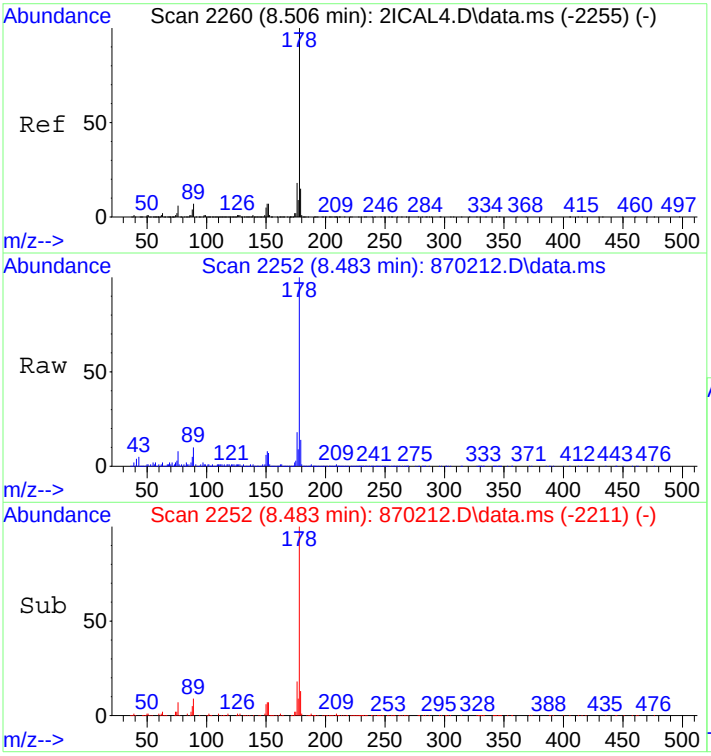


#70
Phenanthrene
Concen: 5.72 ug/mL
RT: 8.460 min Scan# 2244
Delta R.T. 0.003 min
Lab File: 870212.D
Acq: 8 Dec 10 11:20 pm

Tgt Ion:178 Resp: 797983

Ion	Ratio	Lower	Upper
178	100		
179	15.5	0.0	44.4
176	17.5	0.0	48.0

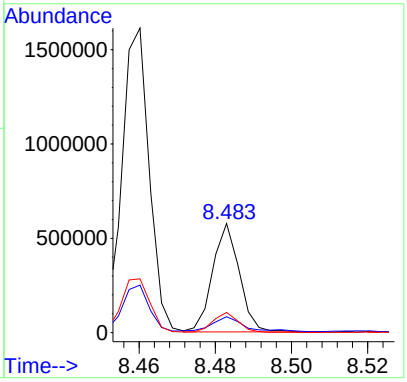


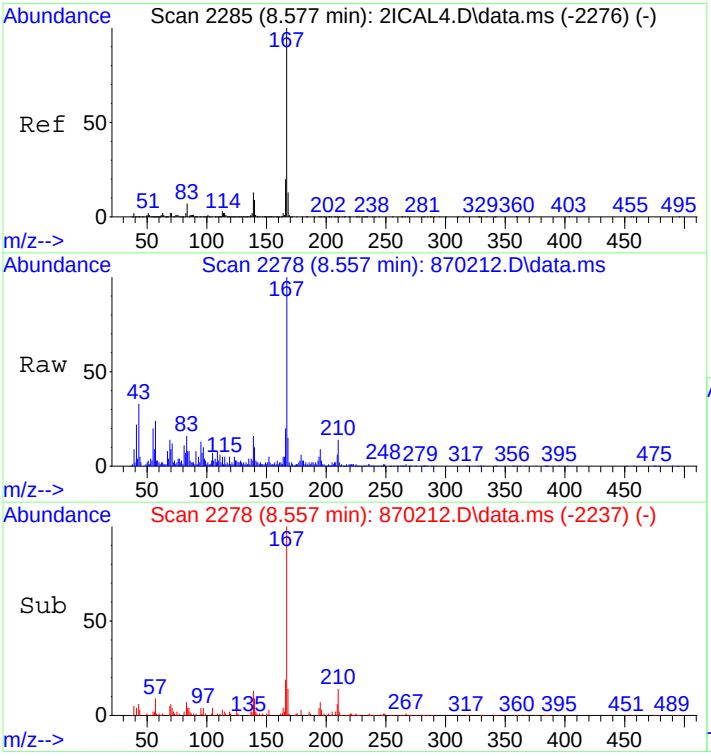


#71
Anthracene
Concen: 1.98 ug/mL
RT: 8.483 min Scan# 2252
Delta R.T. 0.000 min
Lab File: 870212.D
Acq: 8 Dec 10 11:20 pm

Tgt Ion:178 Resp: 280767

Ion	Ratio	Lower	Upper
178	100		
179	13.5	0.0	45.0
176	18.5	0.0	48.4

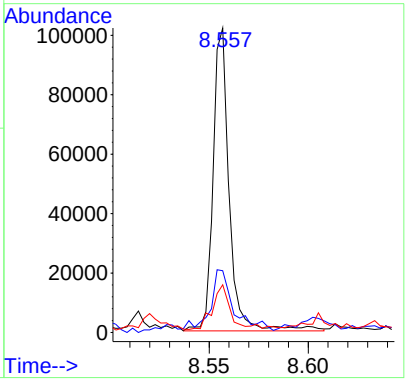


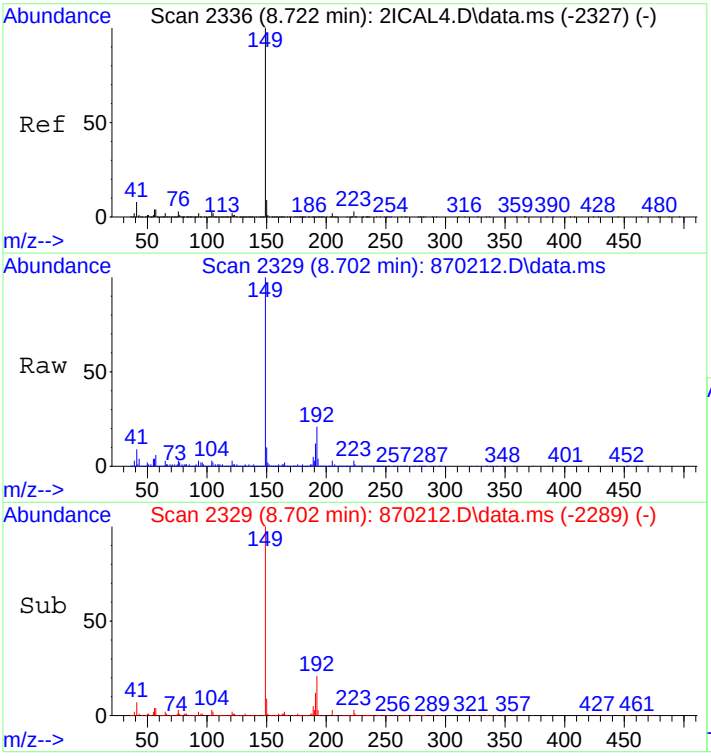


#72
Carbazole
Concen: 0.48 ug/mL
RT: 8.557 min Scan# 2278
Delta R.T. 0.000 min
Lab File: 870212.D
Acq: 8 Dec 10 11:20 pm

Tgt Ion:167 Resp: 58017

Ion	Ratio	Lower	Upper
167	100		
166	19.1	0.0	50.6
139	14.6	0.0	43.0

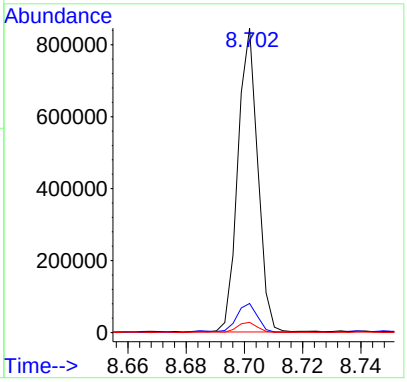


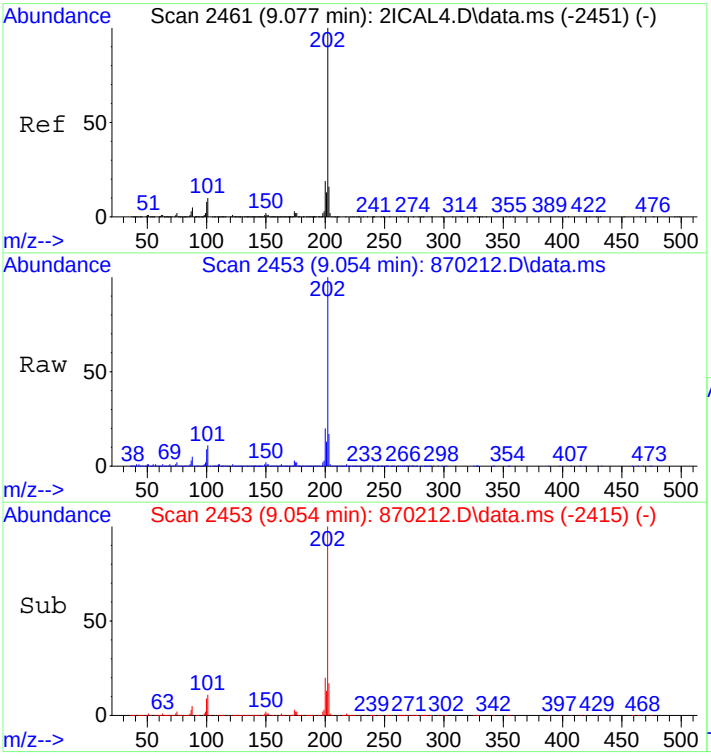


#73
Dinbtylphthal
Concen: 2.47 ug/mL
RT: 8.702 min Scan# 2329
Delta R.T. -0.003 min
Lab File: 870212.D
Acq: 8 Dec 10 11:20 pm

Tgt Ion:149 Resp: 399852

Ion	Ratio	Lower	Upper
149	100		
150	9.5	0.0	38.5
104	3.4	0.0	34.3

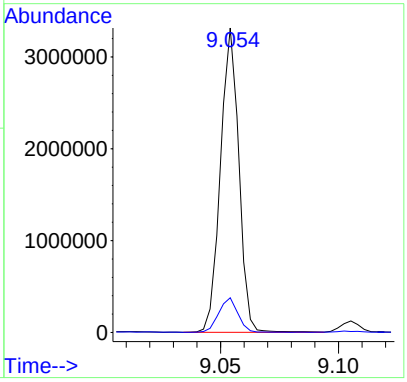


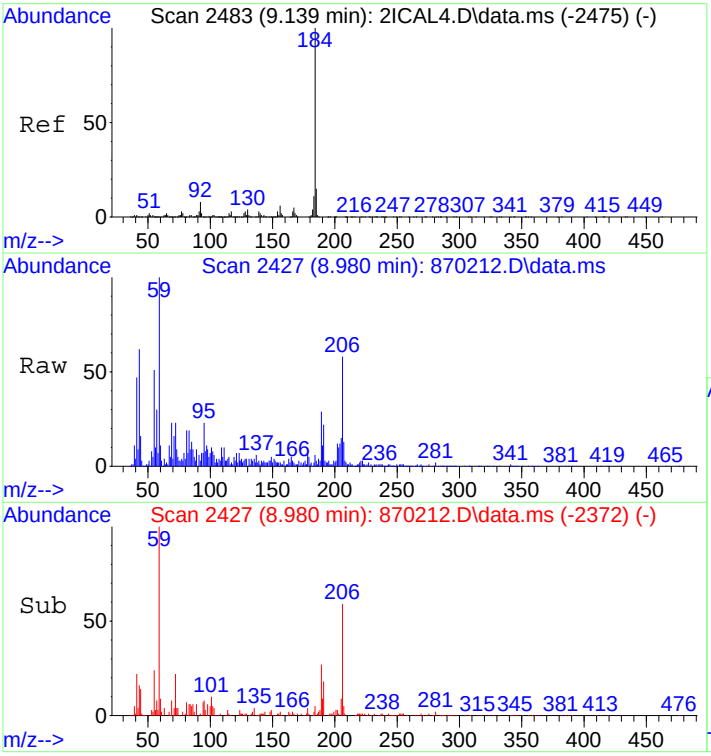


#74
Fluoranthene
Concen: 12.72 ug/mL
RT: 9.054 min Scan# 2453
Delta R.T. -0.008 min
Lab File: 870212.D
Acq: 8 Dec 10 11:20 pm

Tgt Ion:202 Resp: 1791446

Ion	Ratio	Lower	Upper
202	100		
101	11.3	0.0	41.2

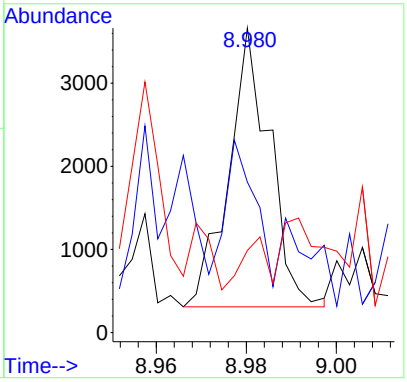


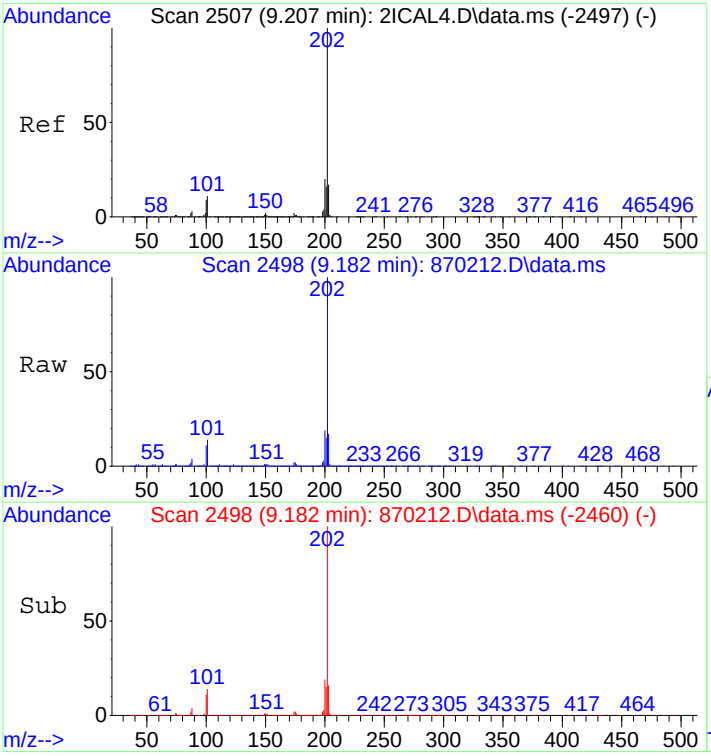


#76
Benzidine
Concen: Below ug/mL
RT: 8.980 min Scan# 2427
Delta R.T. -0.145 min
Lab File: 870212.D
Acq: 8 Dec 10 11:20 pm

Tgt Ion:184 Resp: 2128

Ion	Ratio	Lower	Upper
184	100		
185	22.7	0.0	43.8
183	9.3	0.0	41.8

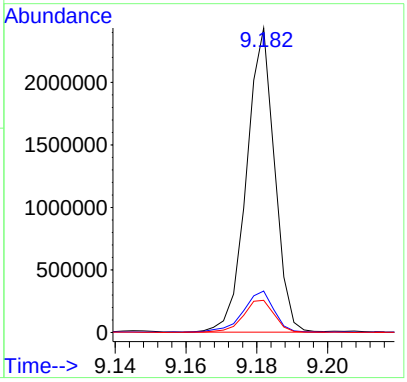


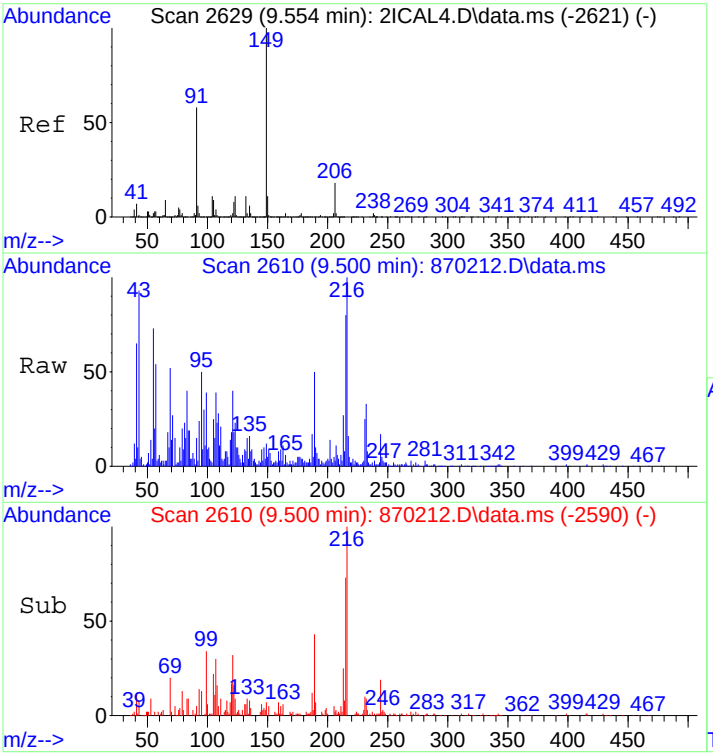


#77
Pyrene
Concen: 9.74 ug/mL
RT: 9.182 min Scan# 2498
Delta R.T. -0.008 min
Lab File: 870212.D
Acq: 8 Dec 10 11:20 pm

Tgt Ion:202 Resp: 1338200

Ion	Ratio	Lower	Upper
202	100		
101	13.5	0.0	44.0
100	10.5	0.0	42.2

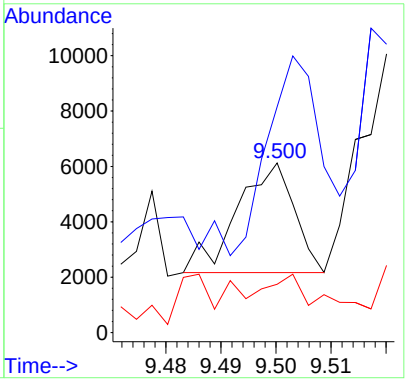


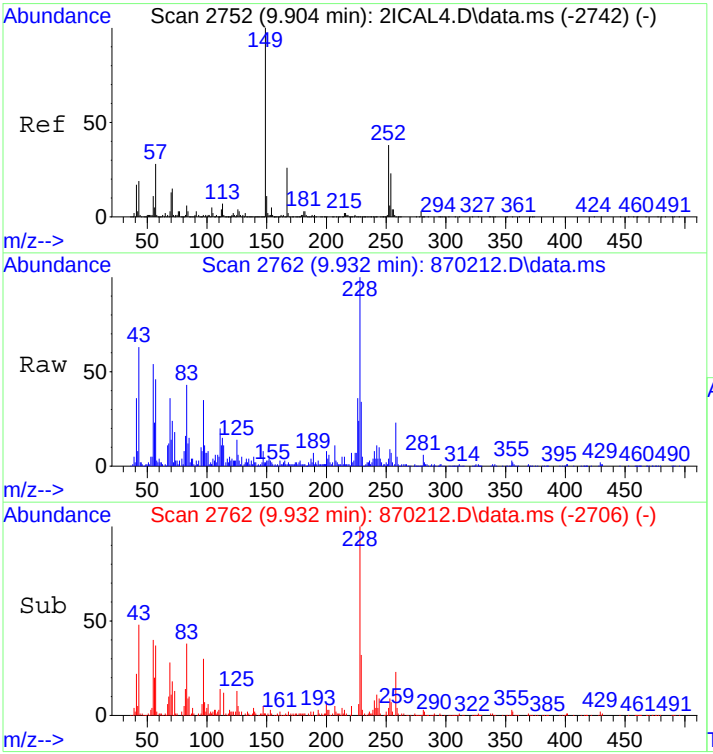


#79
Btylbzylphth
Concen: 0.04 ug/mL
RT: 9.500 min Scan# 2610
Delta R.T. -0.043 min
Lab File: 870212.D
Acq: 8 Dec 10 11:20 pm

Tgt Ion:149 Resp: 2857

Ion	Ratio	Lower	Upper
149	100		
91	100.4	40.5	100.5
206	9.6	0.0	48.9

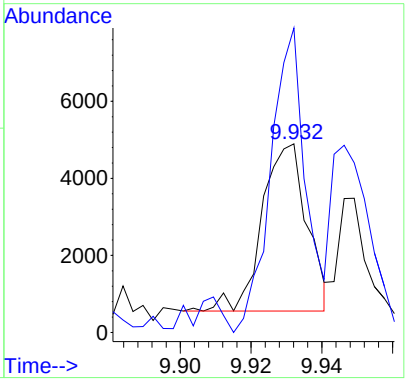


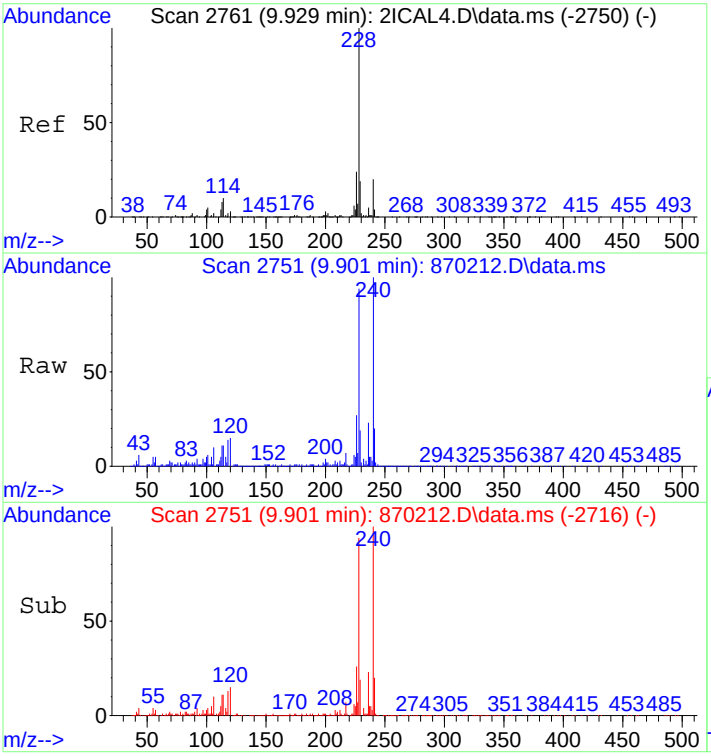


#80
33Diclbnzidin
Concen: Below ug/mL
RT: 9.932 min Scan# 2762
Delta R.T. 0.043 min
Lab File: 870212.D
Acq: 8 Dec 10 11:20 pm

Tgt Ion:252 Resp: 3816

Ion	Ratio	Lower	Upper
252	100		
254	174.1	31.7	91.7#

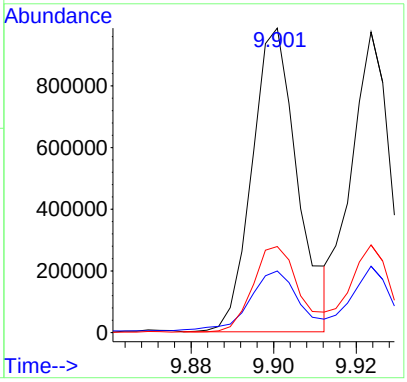


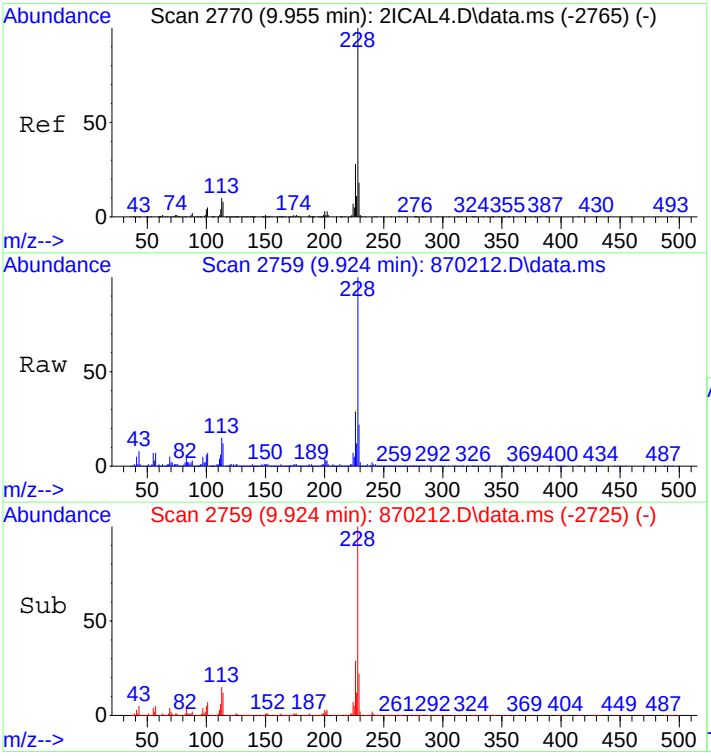


#81
B[a]anthracen
Concen: 5.90 ug/mL
RT: 9.901 min Scan# 2751
Delta R.T. -0.017 min
Lab File: 870212.D
Acq: 8 Dec 10 11:20 pm

Tgt Ion:228 Resp: 755786

Ion	Ratio	Lower	Upper
228	100		
229	19.3	0.0	48.8
226	28.1	0.0	56.6

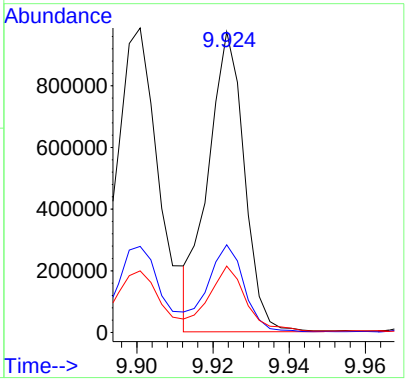


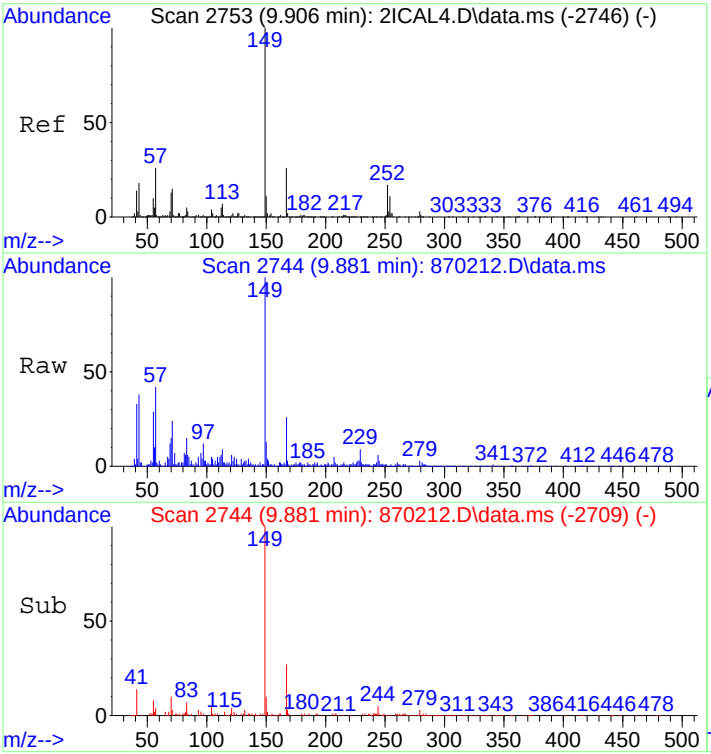


#82
Chrysene
Concen: 5.26 ug/mL
RT: 9.924 min Scan# 2759
Delta R.T. -0.020 min
Lab File: 870212.D
Acq: 8 Dec 10 11:20 pm

Tgt Ion:228 Resp: 645933

Ion	Ratio	Lower	Upper
228	100		
226	29.0	0.0	58.6
229	21.7	0.0	49.6

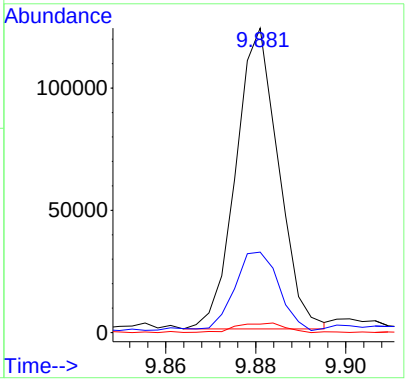


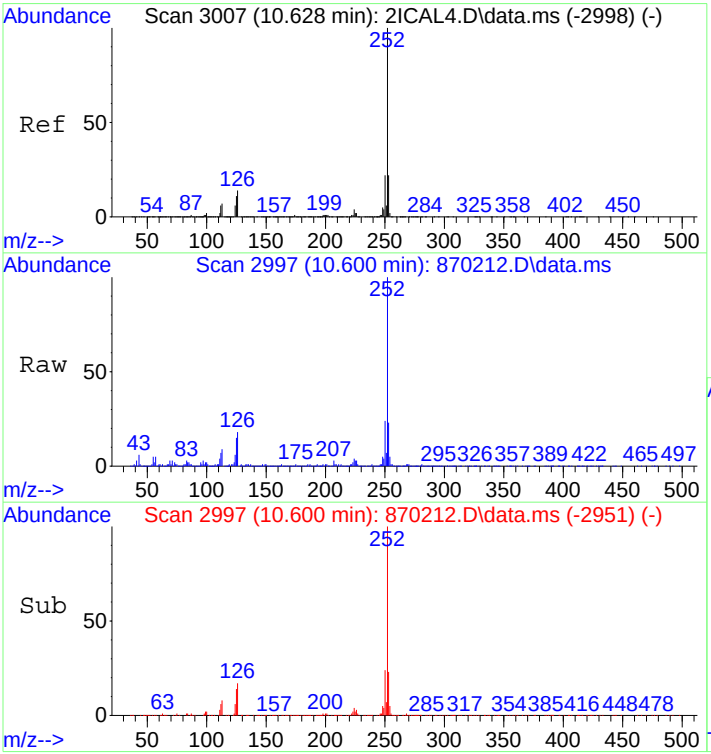


#83
bis2Ethlhxlph
Concen: 0.83 ug/mL
RT: 9.881 min Scan# 2744
Delta R.T. -0.017 min
Lab File: 870212.D
Acq: 8 Dec 10 11:20 pm

Tgt Ion:149 Resp: 81010

Ion	Ratio	Lower	Upper
149	100		
167	25.4	0.0	56.9
279	2.8	0.0	33.6

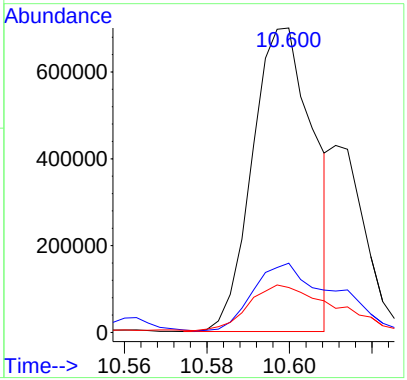


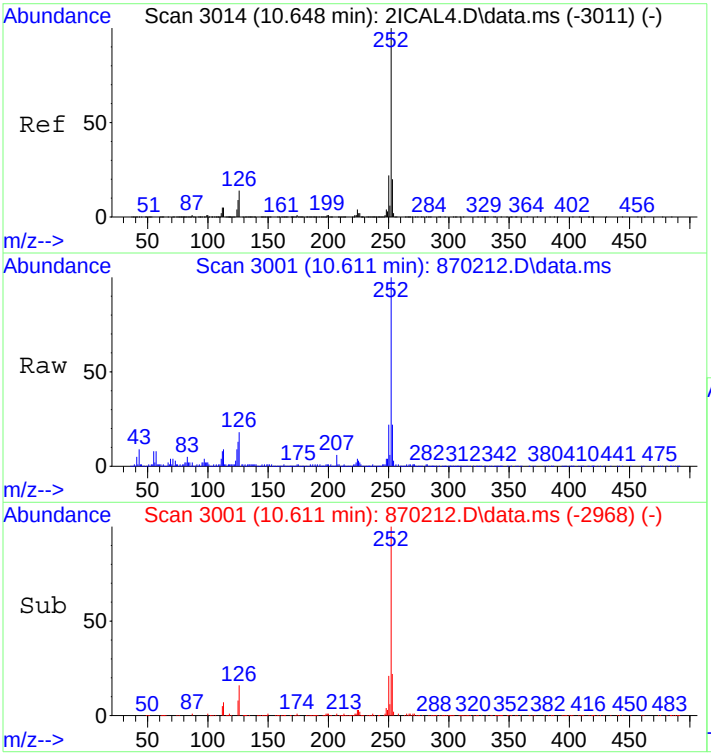


#86
B[b]fluoranth
Concen: 6.75 ug/mL
RT: 10.600 min Scan# 2997
Delta R.T. -0.014 min
Lab File: 870212.D
Acq: 8 Dec 10 11:20 pm

Tgt Ion:252 Resp: 716873

Ion	Ratio	Lower	Upper
252	100		
253	21.9	0.0	50.8
125	14.0	0.0	41.9

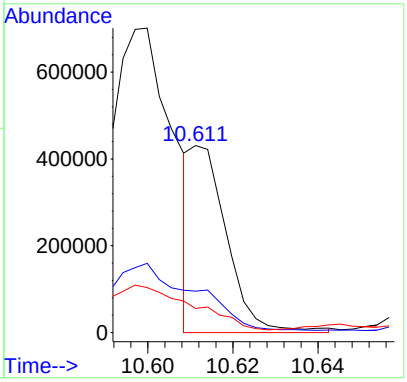


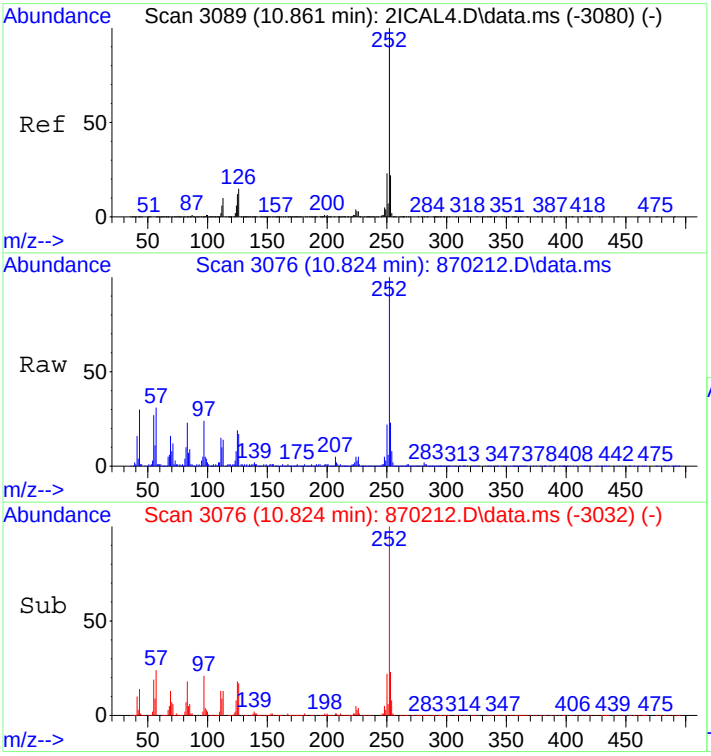


#87
B[k]fluoranth
Concen: 2.54 ug/mL m
RT: 10.611 min Scan# 3001
Delta R.T. -0.023 min
Lab File: 870212.D
Acq: 8 Dec 10 11:20 pm

Tgt Ion:252 Resp: 254680

Ion	Ratio	Lower	Upper
252	100		
253	22.2	0.0	50.8
125	12.9	0.0	41.3

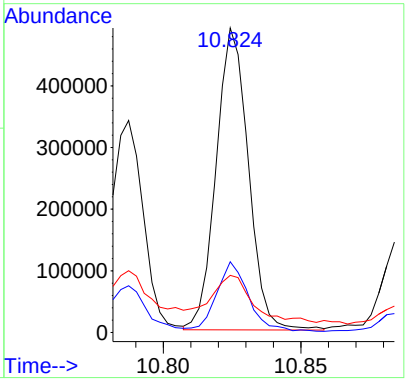


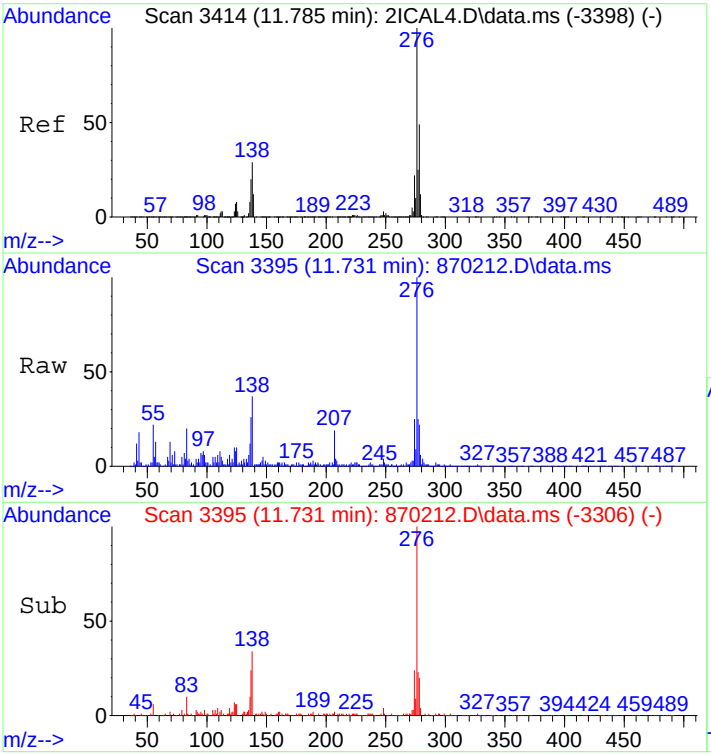


#88
Benz[a]pyrene
Concen: 4.11 ug/mL
RT: 10.824 min Scan# 3076
Delta R.T. -0.020 min
Lab File: 870212.D
Acq: 8 Dec 10 11:20 pm

Tgt Ion:252 Resp: 398449

Ion	Ratio	Lower	Upper
252	100		
253	23.1	0.0	50.4
125	15.0	0.0	43.2

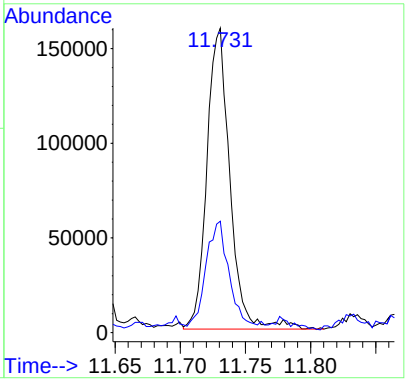


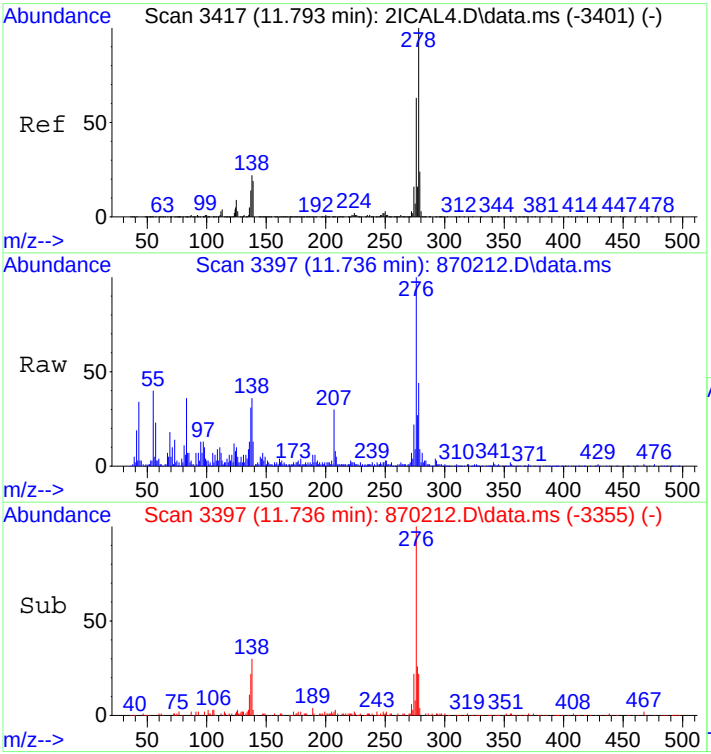


#89
Indeno-pyrene
Concen: 1.99 ug/mL
RT: 11.731 min Scan# 3395
Delta R.T. -0.025 min
Lab File: 870212.D
Acq: 8 Dec 10 11:20 pm

Tgt Ion:276 Resp: 195530

Ion	Ratio	Lower	Upper
276	100		
138	34.8	2.2	62.2

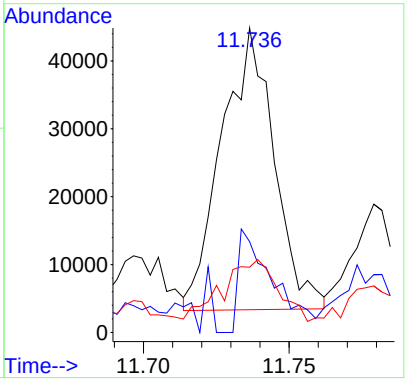


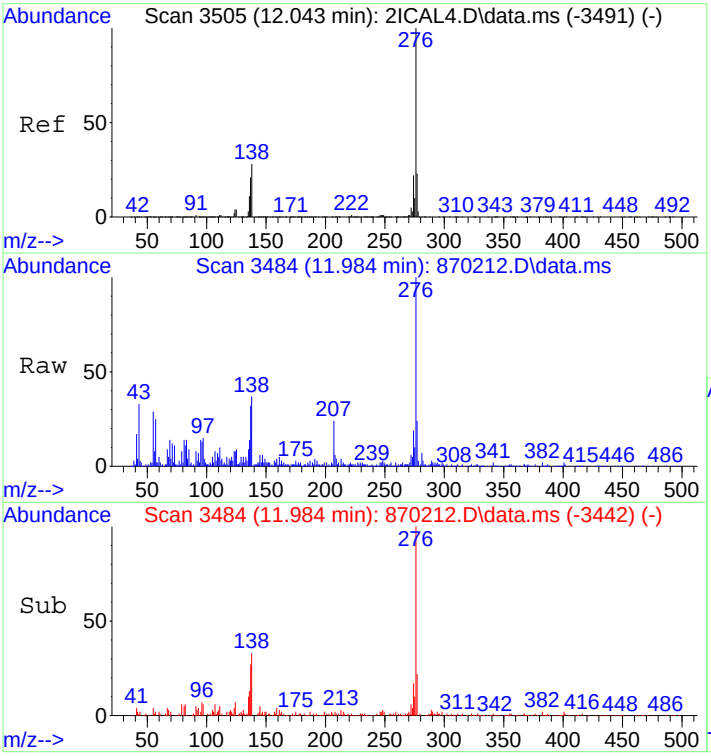


#90
Dib[ah]anthr
Concen: 0.65 ug/mL
RT: 11.736 min Scan# 3397
Delta R.T. -0.031 min
Lab File: 870212.D
Acq: 8 Dec 10 11:20 pm

Tgt Ion:278 Resp: 51934

Ion	Ratio	Lower	Upper
278	100		
139	24.6	0.0	50.7
279	19.2	0.0	54.3

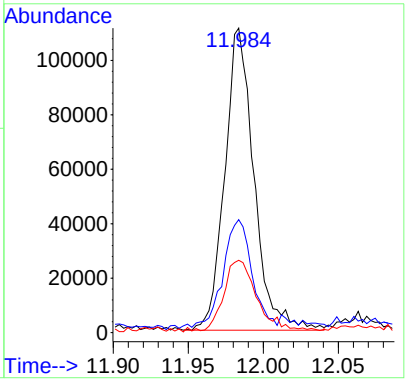


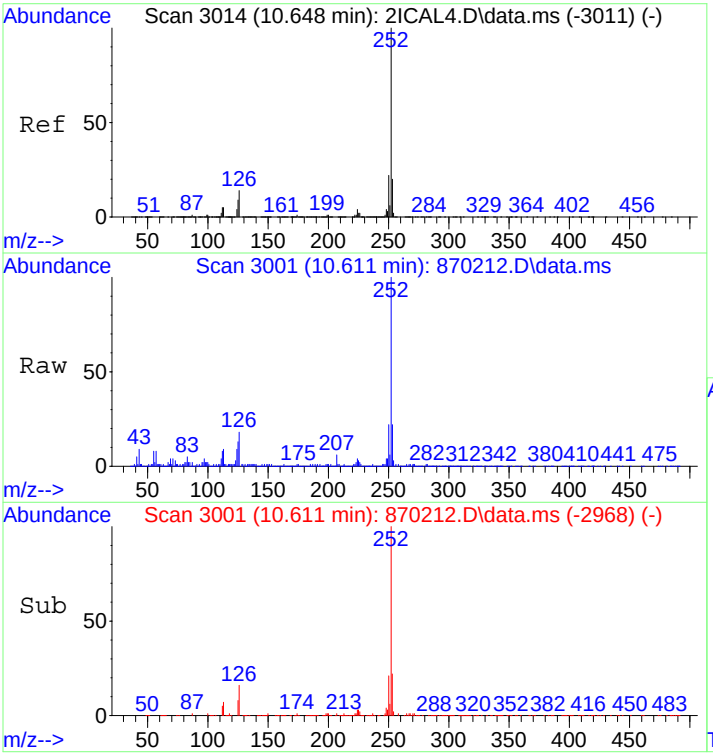


#91
B[ghi]perylen
Concen: 1.84 ug/mL
RT: 11.984 min Scan# 3484
Delta R.T. -0.031 min
Lab File: 870212.D
Acq: 8 Dec 10 11:20 pm

Tgt Ion:276 Resp: 150478

Ion	Ratio	Lower	Upper
276	100		
138	35.2	0.0	57.5
277	23.8	0.0	53.1

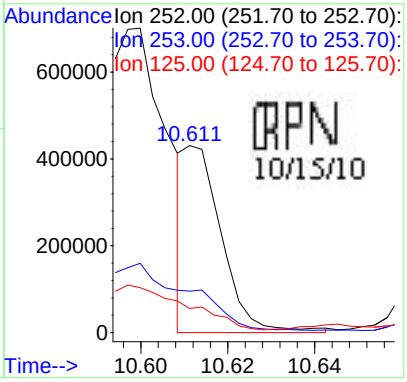




#87
B[k]fluoranth
Concen: 2.54 ug/mL m
RT: 10.611 min Scan# 3001
Delta R.T. -0.023 min
Lab File: 870212.D
Acq: 8 Dec 2010 23:20

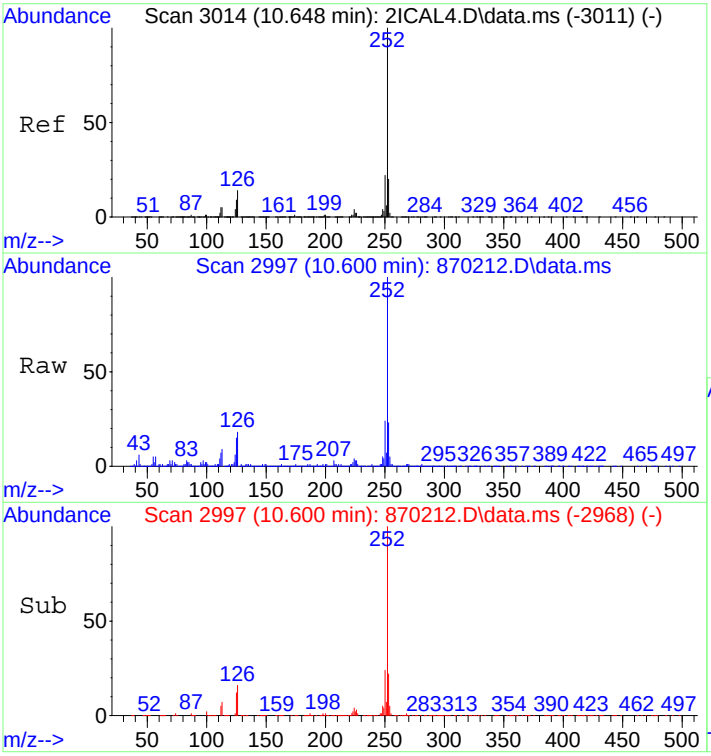
Tgt Ion:252 Resp: 254680

Ion	Ratio	Lower	Upper
252	100		
253	22.2	0.0	50.8
125	12.9	0.0	41.3



JJY
01/05/11

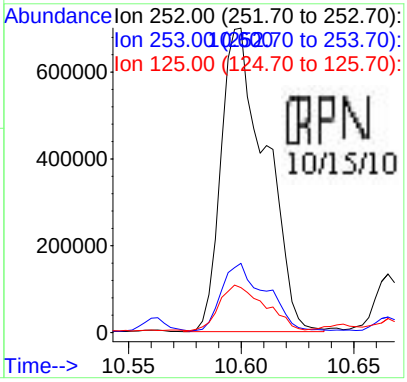
After Manual Integration



#87
B[k]fluoranth
Concen: 9.62 ug/mL
RT: 10.600 min Scan# 2997
Delta R.T. -0.034 min
Lab File: 870212.D
Acq: 8 Dec 2010 23:20

Tgt Ion:252 Resp: 964463

Ion	Ratio	Lower	Upper
252	100		
253	22.0	0.0	50.8
125	14.0	0.0	41.3



RPN
10/15/10

JJY
01/05/11

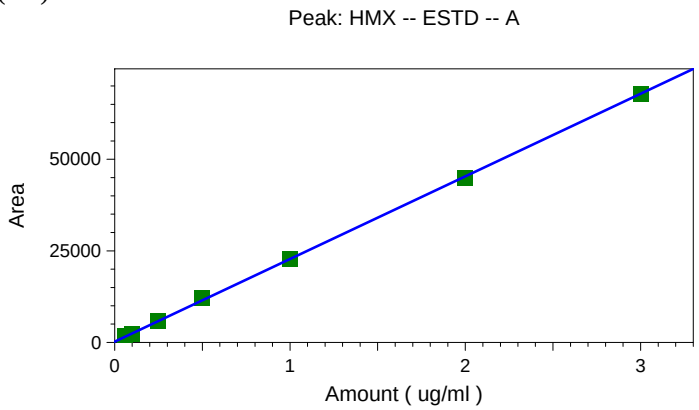
Before Manual Integration

SEMI - VOLATILE ORGANIC ANALYSIS
INITIAL CALIBRATION
DOCUMENTS

Calibration Report

Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:04:50
User: red
Instrument: HPLC 2 (Offline)

HMX (A)
Average RF: 23659.7 RF StDev: 1976.10 RF %RSD: 8.35215
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 22555.2x + 210.639
Goodness of fit (r^2): 0.999764



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.06	0.1	0.25	0.5	1
Area	1670	2240	5773	12243	22762
RF	27833.33333 33333	22400	23092	24486	22762
Last Area Residual	-0.00470161	0.0100271	0.00338946	-0.0334618	0.000172127
Rep StDev					
Rep %RSD					
Rep 1 Area	1670	2240	5773	12243	22762
Rep 1 User	red	red	red	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\002.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\003.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\004.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\005.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\006.dat
Rep 1 Sample ID	8330 Pt 1 EXP 4112	8330 Pt 2 EXP 4113	8330 Pt 3 EXP 4114	8330 Pt 4 EXP 4115	8330 Pt 5 EXP 4116
Rep 1 Calib. Time	Dec 07, 2010 14:17:56	Dec 07, 2010 13:31:03	Dec 07, 2010 13:31:12	Dec 07, 2010 13:31:20	Dec 07, 2010 13:31:30

Calibration Report

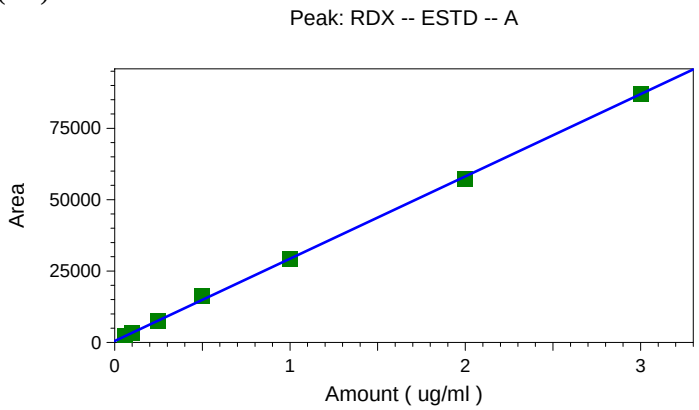
Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:04:50
User: red
Instrument: HPLC 2 (Offline)

	Level 6	Level 7
Amount	2	3
Area	44817	67909
RF	22408.5	22636.3333333333
Last Area Residual	0.0223507	-0.00144674
Rep StDev		
Rep %RSD		
Rep 1 Area	44817	67909
Rep 1 User	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\007.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\008.dat
Rep 1 Sample ID	8330 Pt 6 EXP 4117	8330 Pt 7 EXP 4118
Rep 1 Calib. Time	Dec 07, 2010 13:38:44	Dec 07, 2010 14:15:32

Calibration Report

Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:04:52
User: red
Instrument: HPLC 2 (Offline)

RDX (A)
Average RF: 31322.4 RF StDev: 3507.45 RF %RSD: 11.1979
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 28818.4x + 494.442
Goodness of fit (r^2): 0.999548



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.06	0.1	0.25	0.5	1
Area	2310	3190	7354	16272	29209
RF	38500	31900	29416	32544	29209
Last Area Residual	-0.00299993	0.00646404	0.0119731	-0.0474818	0.00360395
Rep StDev					
Rep %RSD					
Rep 1 Area	2310	3190	7354	16272	29209
Rep 1 User	red	red	red	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\002.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\003.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\004.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\005.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\006.dat
Rep 1 Sample ID	8330 Pt 1 EXP 4112	8330 Pt 2 EXP 4113	8330 Pt 3 EXP 4114	8330 Pt 4 EXP 4115	8330 Pt 5 EXP 4116
Rep 1 Calib. Time	Dec 07, 2010 14:17:56	Dec 07, 2010 13:31:03	Dec 07, 2010 13:31:12	Dec 07, 2010 13:31:20	Dec 07, 2010 13:31:30

Level 6	Level 7

Calibration Report

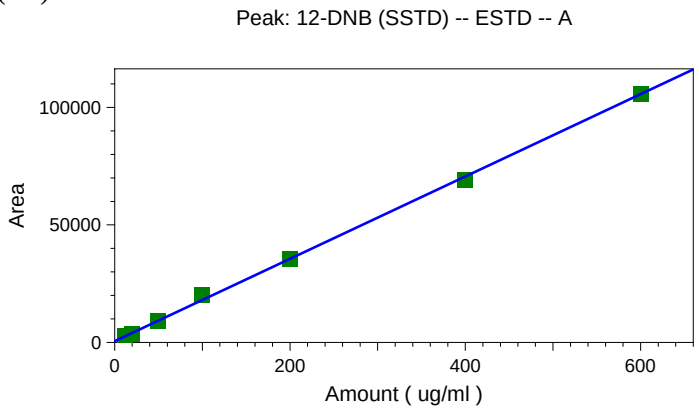
Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:04:52
User: red
Instrument: HPLC 2 (Offline)

Amount	2	3
Area	57285	87135
RF	28642.5	29045
Last Area		
Residual	0.0293659	-0.00643001
Rep StDev		
Rep %RSD		
Rep 1 Area	57285	87135
Rep 1 User	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\007.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\008.dat
Rep 1 Sample ID	8330 Pt 6 EXP 4117	8330 Pt 7 EXP 4118
Rep 1 Calib. Time	Dec 07, 2010 13:38:44	Dec 07, 2010 14:15:32

Calibration Report

Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:04:54
User: red
Instrument: HPLC 2 (Offline)

12-DNB (SSTD) (A)
Average RF: 189.408 RF StDev: 20.6803 RF %RSD: 10.9184
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 175.197x + 552.246
Goodness of fit (r^2): 0.999279



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	12	20	50	100	200
Area	2780	3650	9184	20068	35627
RF	231.666666666667	182.5	183.68	200.68	178.135
Last Area Residual	-0.715677	2.3185	0.731273	-11.3929	-0.20132
Rep StDev					
Rep %RSD					
Rep 1 Area	2780	3650	9184	20068	35627
Rep 1 User	red	red	red	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\002.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\003.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\004.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\005.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\006.dat
Rep 1 Sample ID	8330 Pt 1 EXP 4112	8330 Pt 2 EXP 4113	8330 Pt 3 EXP 4114	8330 Pt 4 EXP 4115	8330 Pt 5 EXP 4116
Rep 1 Calib. Time	Dec 07, 2010 14:17:56	Dec 07, 2010 13:31:03	Dec 07, 2010 13:31:12	Dec 07, 2010 13:31:20	Dec 07, 2010 13:31:30

Calibration Report

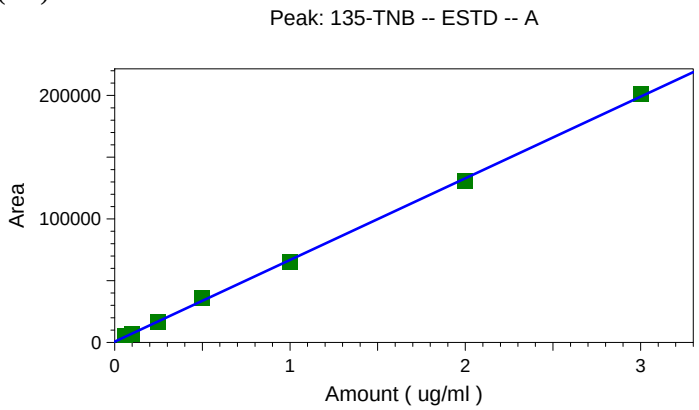
Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:04:54
User: red
Instrument: HPLC 2 (Offline)

	Level 6	Level 7
Amount	400	600
Area	69101	105864
RF	172.7525	176.44
Last Area		
Residual	8.73422	-1.10335
Rep StDev		
Rep %RSD		
Rep 1 Area	69101	105864
Rep 1 User	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\007.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\008.dat
Rep 1 Sample ID	8330 Pt 6 EXP 4117	8330 Pt 7 EXP 4118
Rep 1 Calib. Time	Dec 07, 2010 13:38:44	Dec 07, 2010 14:15:32

Calibration Report

Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:04:56
User: red
Instrument: HPLC 2 (Offline)

135-TNB (A)
Average RF: 69315.8 RF StDev: 7114.25 RF %RSD: 10.2635
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 66166.0x + 564.701
Goodness of fit (r^2): 0.999351



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.06	0.1	0.25	0.5	1
Area	5055	6438	16587	36258	65318
RF	84250	64380	66348	72516	65318
Last Area Residual	-0.00786416	0.0112339	0.00784687	-0.0394509	0.0213506
Rep StDev					
Rep %RSD					
Rep 1 Area	5055	6438	16587	36258	65318
Rep 1 User	red	red	red	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\002.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\003.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\004.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\005.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\006.dat
Rep 1 Sample ID	8330 Pt 1 EXP 4112	8330 Pt 2 EXP 4113	8330 Pt 3 EXP 4114	8330 Pt 4 EXP 4115	8330 Pt 5 EXP 4116
Rep 1 Calib. Time	Dec 07, 2010 14:17:56	Dec 07, 2010 13:31:03	Dec 07, 2010 13:31:12	Dec 07, 2010 13:31:20	Dec 07, 2010 13:31:30

Level 6	Level 7

Calibration Report

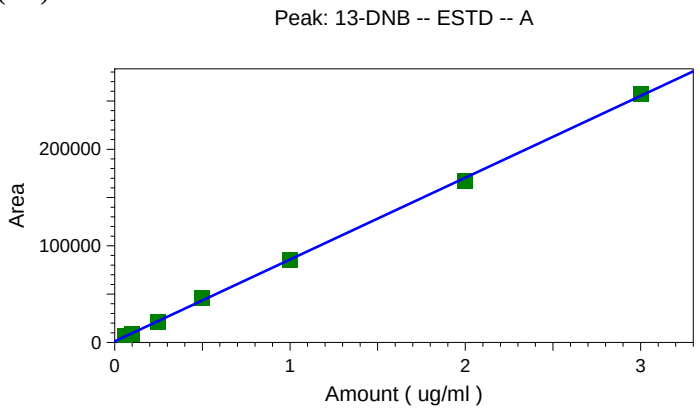
Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:04:56
User: red
Instrument: HPLC 2 (Offline)

Amount	2	3
Area	130488	201463
RF	65244	67154.3333333333
Last Area		
Residual	0.0364033	-0.0362778
Rep StDev		
Rep %RSD		
Rep 1 Area	130488	201463
Rep 1 User	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\007.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\008.dat
Rep 1 Sample ID	8330 Pt 6 EXP 4117	8330 Pt 7 EXP 4118
Rep 1 Calib. Time	Dec 07, 2010 13:38:44	Dec 07, 2010 14:15:32

Calibration Report

Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:04:58
User: red
Instrument: HPLC 2 (Offline)

13-DNB (A)
Average RF: 90745.7 RF StDev: 11175.6 RF %RSD: 12.3153
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 84685.9x + 1132.09
Goodness of fit (r^2): 0.999539



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.06	0.1	0.25	0.5	1
Area	6916	8663	21497	46326	85054
RF	115266.6666 66667	86630	85988	92652	85054
Last Area Residual	-0.00829835	0.0110725	0.00952428	-0.0336649	0.00902177
Rep StDev					
Rep %RSD					
Rep 1 Area	6916	8663	21497	46326	85054
Rep 1 User	red	red	red	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\002.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\003.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\004.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\005.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\006.dat
Rep 1 Sample ID	8330 Pt 1 EXP 4112	8330 Pt 2 EXP 4113	8330 Pt 3 EXP 4114	8330 Pt 4 EXP 4115	8330 Pt 5 EXP 4116
Rep 1 Calib. Time	Dec 07, 2010 14:17:56	Dec 07, 2010 13:31:03	Dec 07, 2010 13:31:12	Dec 07, 2010 13:31:20	Dec 07, 2010 13:31:30

Calibration Report

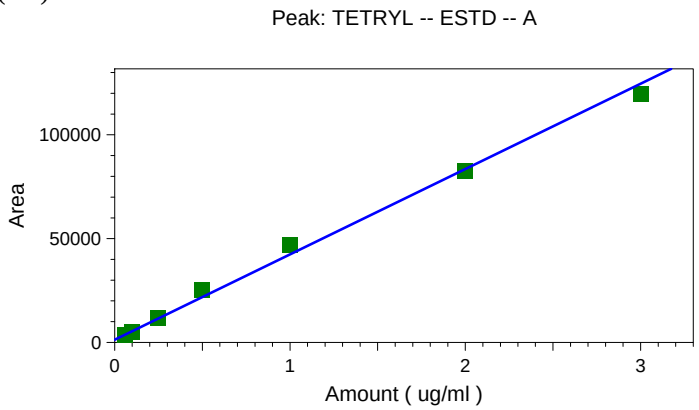
Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:04:58
User: red
Instrument: HPLC 2 (Offline)

	Level 6	Level 7
Amount	2	3
Area	167563	257544
RF	83781.5	85848
Last Area Residual	0.0347276	-0.0277984
Rep StDev		
Rep %RSD		
Rep 1 Area	167563	257544
Rep 1 User	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\007.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\008.dat
Rep 1 Sample ID	8330 Pt 6 EXP 4117	8330 Pt 7 EXP 4118
Rep 1 Calib. Time	Dec 07, 2010 13:38:44	Dec 07, 2010 14:15:32

Calibration Report

Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:04:59
User: red
Instrument: HPLC 2 (Offline)

TETRYL (A)
Average RF: 47486.3 RF StDev: 6233.29 RF %RSD: 13.1265
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 41110.4x + 1298.41
Goodness of fit (r^2): 0.995416



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.06	0.1	0.25	0.5	1
Area	3529	4809	11844	25119	46725
RF	58816.66666 66667	48090	47376	50238	46725
Last Area Residual	0.00574142	0.0146057	-0.00651891	-0.07943	-0.104991
Rep StDev					
Rep %RSD					
Rep 1 Area	3529	4809	11844	25119	46725
Rep 1 User	red	red	red	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\002.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\003.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\004.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\005.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\006.dat
Rep 1 Sample ID	8330 Pt 1 EXP 4112	8330 Pt 2 EXP 4113	8330 Pt 3 EXP 4114	8330 Pt 4 EXP 4115	8330 Pt 5 EXP 4116
Rep 1 Calib. Time	Dec 07, 2010 14:17:56	Dec 07, 2010 13:31:03	Dec 07, 2010 13:31:12	Dec 07, 2010 13:31:20	Dec 07, 2010 13:31:30

Calibration Report

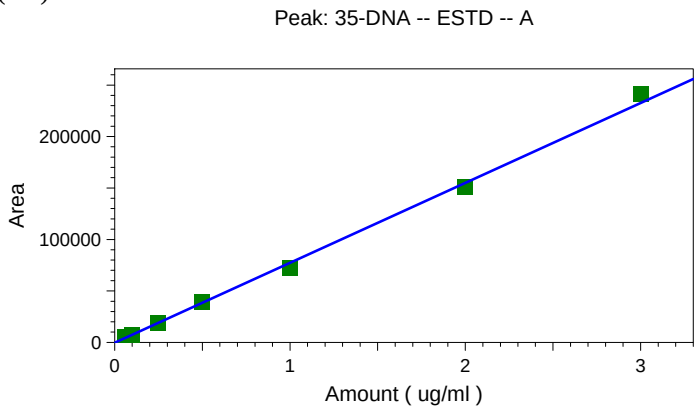
Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:04:59
User: red
Instrument: HPLC 2 (Offline)

	Level 6	Level 7
Amount	2	3
Area	82428	119834
RF	41214	39944.6666666667
Last Area Residual	0.0265427	0.116651
Rep StDev		
Rep %RSD		
Rep 1 Area	82428	119834
Rep 1 User	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\007.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\008.dat
Rep 1 Sample ID	8330 Pt 6 EXP 4117	8330 Pt 7 EXP 4118
Rep 1 Calib. Time	Dec 07, 2010 13:38:44	Dec 07, 2010 14:15:32

Calibration Report

Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:05:01
User: red
Instrument: HPLC 2 (Offline)

35-DNA (A)
Average RF: 76421.1 RF StDev: 4252.71 RF %RSD: 5.56483
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 77620.3x - 287.468
Goodness of fit (r^2): 0.997396



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.06	0.1	0.25	0.5	1
Area	4925	7098	18529	39635	72481
RF	82083.33333 33333	70980	74116	79270	72481
Last Area Residual	-0.00715342	0.00485132	0.00758313	-0.0143303	0.0625072
Rep StDev					
Rep %RSD					
Rep 1 Area	4925	7098	18529	39635	72481
Rep 1 User	red	red	red	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\002.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\003.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\004.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\005.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\006.dat
Rep 1 Sample ID	8330 Pt 1 EXP 4112	8330 Pt 2 EXP 4113	8330 Pt 3 EXP 4114	8330 Pt 4 EXP 4115	8330 Pt 5 EXP 4116
Rep 1 Calib. Time	Dec 07, 2010 14:17:56	Dec 07, 2010 13:31:03	Dec 07, 2010 13:31:12	Dec 07, 2010 13:31:20	Dec 07, 2010 13:31:30

Calibration Report

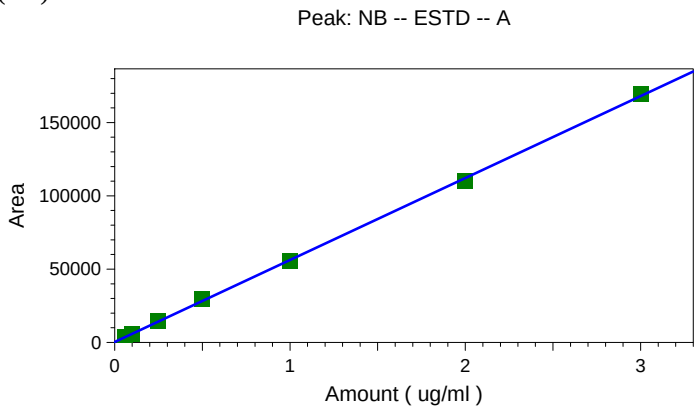
Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:05:01
User: red
Instrument: HPLC 2 (Offline)

	Level 6	Level 7
Amount	2	3
Area	150948	241631
RF	75474	80543.6666666667
Last Area Residual	0.0515988	-0.116691
Rep StDev		
Rep %RSD		
Rep 1 Area	150948	241631
Rep 1 User	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\007.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\008.dat
Rep 1 Sample ID	8330 Pt 6 EXP 4117	8330 Pt 7 EXP 4118
Rep 1 Calib. Time	Dec 07, 2010 13:38:44	Dec 07, 2010 14:15:32

Calibration Report

Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:05:03
User: red
Instrument: HPLC 2 (Offline)

NB (A)
Average RF: 57696.2 RF StDev: 3477.67 RF %RSD: 6.02756
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 55923.0x + 338.657
Goodness of fit (r^2): 0.999526



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.06	0.1	0.25	0.5	1
Area	3874	5489	14302	29944	55822
RF	64566.66666 66667	54890	57208	59888	55822
Last Area Residual	-0.00321803	0.00790298	0.000311341	-0.0293946	0.00786211
Rep StDev					
Rep %RSD					
Rep 1 Area	3874	5489	14302	29944	55822
Rep 1 User	red	red	red	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\002.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\003.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\004.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\005.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\006.dat
Rep 1 Sample ID	8330 Pt 1 EXP 4112	8330 Pt 2 EXP 4113	8330 Pt 3 EXP 4114	8330 Pt 4 EXP 4115	8330 Pt 5 EXP 4116
Rep 1 Calib. Time	Dec 07, 2010 14:17:56	Dec 07, 2010 13:31:03	Dec 07, 2010 13:31:12	Dec 07, 2010 13:31:20	Dec 07, 2010 13:31:30

Calibration Report

Method:
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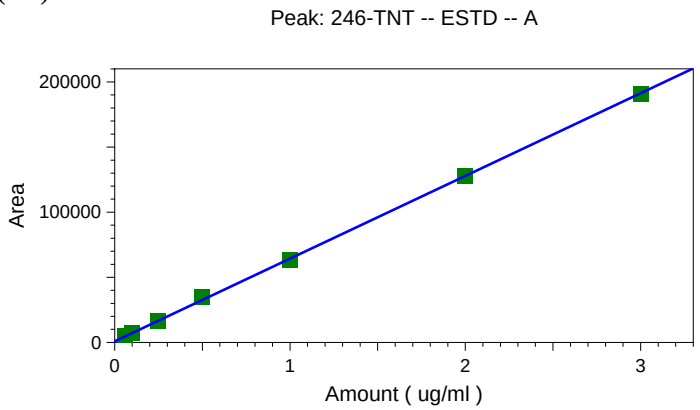
Print Time: Dec 09, 2010 12:05:03
User: red
Instrument: HPLC 2 (Offline)

	Level 6	Level 7
Amount	2	3
Area	109854	169716
RF	54927	56572
Last Area		
Residual	0.0416767	-0.0287591
Rep StDev		
Rep %RSD		
Rep 1 Area	109854	169716
Rep 1 User	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\007.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\008.dat
Rep 1 Sample ID	8330 Pt 6 EXP 4117	8330 Pt 7 EXP 4118
Rep 1 Calib. Time	Dec 07, 2010 13:38:44	Dec 07, 2010 14:15:32

Calibration Report

Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:05:05
User: red
Instrument: HPLC 2 (Offline)

246-TNT (A)
Average RF: 67885.5 RF StDev: 5764.22 RF %RSD: 8.49110
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 63513.8x + 874.273
Goodness of fit (r^2): 0.999740



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.06	0.1	0.25	0.5	1
Area	4735	7047	16110	35168	63581
RF	78916.66666 66667	70470	64440	70336	63581
Last Area Residual	-0.000785627	0.00281284	0.0101195	-0.0399413	0.0127072
Rep StDev					
Rep %RSD					
Rep 1 Area	4735	7047	16110	35168	63581
Rep 1 User	red	red	red	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\002.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\003.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\004.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\005.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\006.dat
Rep 1 Sample ID	8330 Pt 1 EXP 4112	8330 Pt 2 EXP 4113	8330 Pt 3 EXP 4114	8330 Pt 4 EXP 4115	8330 Pt 5 EXP 4116
Rep 1 Calib. Time	Dec 07, 2010 14:17:56	Dec 07, 2010 13:31:03	Dec 07, 2010 13:31:12	Dec 07, 2010 13:31:20	Dec 07, 2010 13:31:30

Calibration Report

Method:
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Print Time: Dec 09, 2010 12:05:05
User: red
Instrument: HPLC 2 (Offline)

	Level 6	Level 7
Amount	2	3
Area	127558	191027
RF	63779	63675.6666666667
Last Area Residual	0.0054145	0.00612004
Rep StDev		
Rep %RSD		
Rep 1 Area	127558	191027
Rep 1 User	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\007.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\008.dat
Rep 1 Sample ID	8330 Pt 6 EXP 4117	8330 Pt 7 EXP 4118
Rep 1 Calib. Time	Dec 07, 2010 13:38:44	Dec 07, 2010 14:15:32

Calibration Report

Method:
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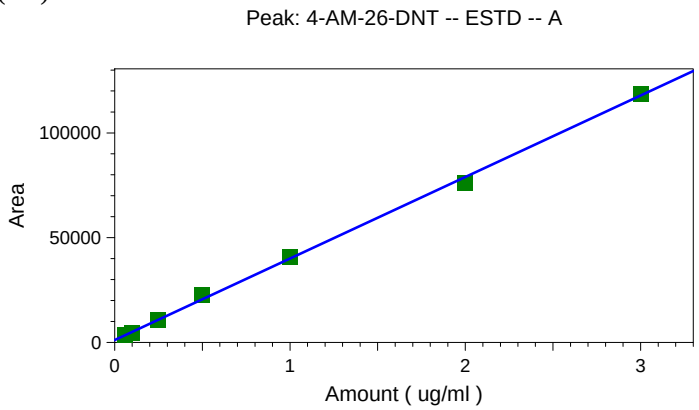
Print Time: Dec 09, 2010 12:05:06
User: red
Instrument: HPLC 2 (Offline)

4-AM-26-DNT (A)
Average RF: 44658.5 RF StDev: 8172.59 RF %RSD: 18.3002
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 38913.0x + 1112.02
Goodness of fit (r^2): 0.998696



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.06	0.1	0.25	0.5	1
Area	3735	4316	10824	22852	40553
RF	62250	43160	43296	45704	40553
Last Area Residual	-0.00740621	0.017663	0.000418117	-0.0586818	-0.0135684
Rep StDev					
Rep %RSD					
Rep 1 Area	3735	4316	10824	22852	40553
Rep 1 User	red	red	red	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\002.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\003.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\004.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\005.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\006.dat
Rep 1 Sample ID	8330 Pt 1 EXP 4112	8330 Pt 2 EXP 4113	8330 Pt 3 EXP 4114	8330 Pt 4 EXP 4115	8330 Pt 5 EXP 4116
Rep 1 Calib. Time	Dec 07, 2010 14:17:56	Dec 07, 2010 13:31:03	Dec 07, 2010 13:31:12	Dec 07, 2010 13:31:20	Dec 07, 2010 13:31:30

	Level 6	Level 7

Calibration Report

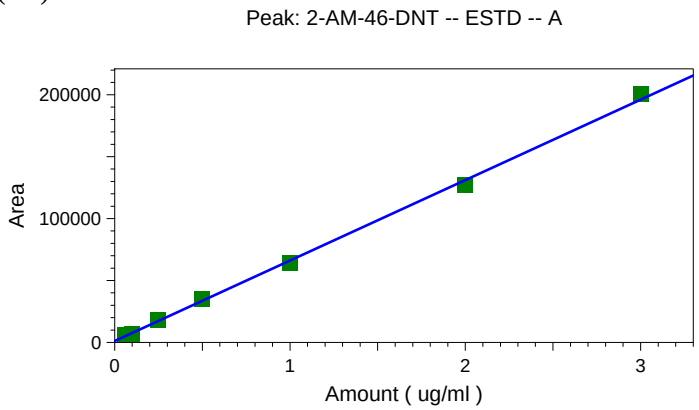
Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:05:06
User: red
Instrument: HPLC 2 (Offline)

Amount	2	3
Area	76140	118729
RF	38070	39576.3333333333
Last Area		
Residual	0.0719041	-0.0225634
Rep StDev		
Rep %RSD		
Rep 1 Area	76140	118729
Rep 1 User	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\007.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\008.dat
Rep 1 Sample ID	8330 Pt 6 EXP 4117	8330 Pt 7 EXP 4118
Rep 1 Calib. Time	Dec 07, 2010 13:38:44	Dec 07, 2010 14:15:32

Calibration Report

Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:05:08
User: red
Instrument: HPLC 2 (Offline)

2-AM-46-DNT (A)
Average RF: 70881.5 RF StDev: 10051.5 RF %RSD: 14.1807
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 65007.0x + 1102.52
Goodness of fit (r^2): 0.998498



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.06	0.1	0.25	0.5	1
Area	5563	6680	17805	35304	64472
RF	92716.66666 66667	66800	71220	70608	64472
Last Area Residual	-0.00861534	0.0142019	-0.00693339	-0.0261196	0.0251906
Rep StDev					
Rep %RSD					
Rep 1 Area	5563	6680	17805	35304	64472
Rep 1 User	red	red	red	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\002.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\003.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\004.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\005.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\006.dat
Rep 1 Sample ID	8330 Pt 1 EXP 4112	8330 Pt 2 EXP 4113	8330 Pt 3 EXP 4114	8330 Pt 4 EXP 4115	8330 Pt 5 EXP 4116
Rep 1 Calib. Time	Dec 07, 2010 14:17:56	Dec 07, 2010 13:31:03	Dec 07, 2010 13:31:12	Dec 07, 2010 13:31:20	Dec 07, 2010 13:31:30

Calibration Report

Method:
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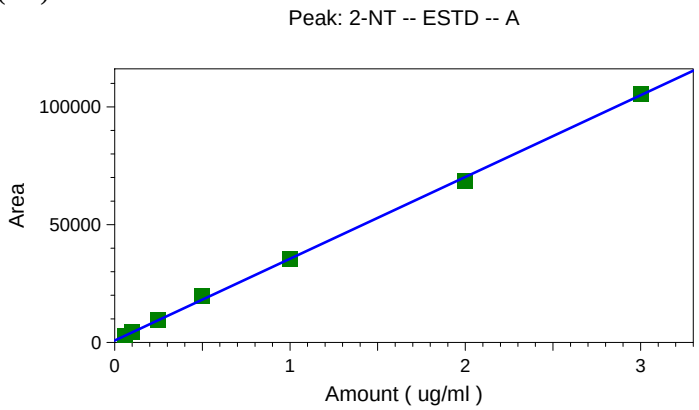
Print Time: Dec 09, 2010 12:05:08
User: red
Instrument: HPLC 2 (Offline)

	Level 6	Level 7
Amount	2	3
Area	126776	200897
RF	63388	66965.6666666667
Last Area Residual	0.0667714	-0.0734281
Rep StDev		
Rep %RSD		
Rep 1 Area	126776	200897
Rep 1 User	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\007.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\008.dat
Rep 1 Sample ID	8330 Pt 6 EXP 4117	8330 Pt 7 EXP 4118
Rep 1 Calib. Time	Dec 07, 2010 13:38:44	Dec 07, 2010 14:15:32

Calibration Report

Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:05:10
User: red
Instrument: HPLC 2 (Offline)

2-NT (A)
Average RF: 38441.7 RF StDev: 3906.98 RF %RSD: 10.1634
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 34714.0x + 763.437
Goodness of fit (r^2): 0.999383



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.06	0.1	0.25	0.5	1
Area	2680	4216	9623	19559	35203
RF	44666.6666666667	42160	38492	39118	35203
Last Area Residual	0.00478998	0.000542744	-0.00521559	-0.0414399	0.00790664
Rep StDev					
Rep %RSD					
Rep 1 Area	2680	4216	9623	19559	35203
Rep 1 User	red	red	red	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\002.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\003.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\004.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\005.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\006.dat
Rep 1 Sample ID	8330 Pt 1 EXP 4112	8330 Pt 2 EXP 4113	8330 Pt 3 EXP 4114	8330 Pt 4 EXP 4115	8330 Pt 5 EXP 4116
Rep 1 Calib. Time	Dec 07, 2010 14:17:56	Dec 07, 2010 13:31:03	Dec 07, 2010 13:31:12	Dec 07, 2010 13:31:20	Dec 07, 2010 13:31:30

Calibration Report

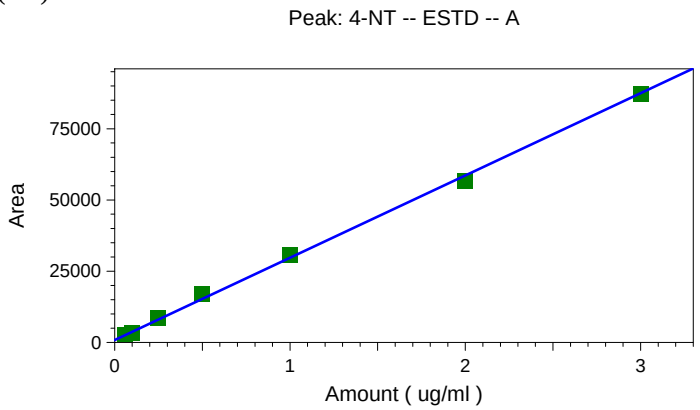
Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:05:10
User: red
Instrument: HPLC 2 (Offline)

	Level 6	Level 7
Amount	2	3
Area	68503	105602
RF	34251.5	35200.6666666667
Last Area Residual	0.0486404	-0.0200628
Rep StDev		
Rep %RSD		
Rep 1 Area	68503	105602
Rep 1 User	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\007.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\008.dat
Rep 1 Sample ID	8330 Pt 6 EXP 4117	8330 Pt 7 EXP 4118
Rep 1 Calib. Time	Dec 07, 2010 13:38:44	Dec 07, 2010 14:15:32

Calibration Report

Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:05:12
User: red
Instrument: HPLC 2 (Offline)

4-NT (A)
Average RF: 33029.2 RF StDev: 4212.87 RF %RSD: 12.7550
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 28890.0x + 846.082
Goodness of fit (r^2): 0.998544



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.06	0.1	0.25	0.5	1
Area	2439	3405	8614	17050	30596
RF	40650	34050	34456	34100	30596
Last Area Residual	0.00486272	0.0114256	-0.0188788	-0.0608825	-0.0297638
Rep StDev					
Rep %RSD					
Rep 1 Area	2439	3405	8614	17050	30596
Rep 1 User	red	red	red	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\002.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\003.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\004.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\005.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\006.dat
Rep 1 Sample ID	8330 Pt 1 EXP 4112	8330 Pt 2 EXP 4113	8330 Pt 3 EXP 4114	8330 Pt 4 EXP 4115	8330 Pt 5 EXP 4116
Rep 1 Calib. Time	Dec 07, 2010 14:17:56	Dec 07, 2010 13:31:03	Dec 07, 2010 13:31:12	Dec 07, 2010 13:31:20	Dec 07, 2010 13:31:30

Level 6	Level 7

Calibration Report

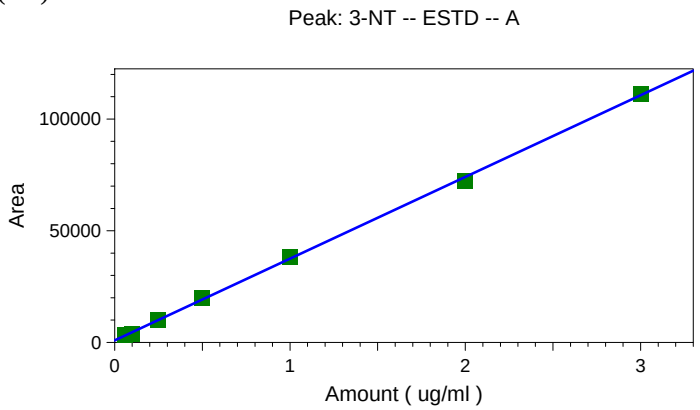
Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:05:12
User: red
Instrument: HPLC 2 (Offline)

Amount	2	3
Area	56493	87317
RF	28246.5	29105.6666666667
Last Area		
Residual	0.0738374	0.0068953
Rep StDev		
Rep %RSD		
Rep 1 Area	56493	87317
Rep 1 User	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\007.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\008.dat
Rep 1 Sample ID	8330 Pt 6 EXP 4117	8330 Pt 7 EXP 4118
Rep 1 Calib. Time	Dec 07, 2010 13:38:44	Dec 07, 2010 14:15:32

Calibration Report

Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:05:14
User: red
Instrument: HPLC 2 (Offline)

3-NT (A)
Average RF: 41130.2 RF StDev: 6900.34 RF %RSD: 16.7768
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 36592.7x + 873.529
Goodness of fit (r^2): 0.999470



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.06	0.1	0.25	0.5	1
Area	3380	3958	10162	20046	38008
RF	56333.33333	39580	40648	40092	38008
Last Area Residual	-0.00849656	0.0157079	-0.00383428	-0.0239431	-0.0148066
Rep StDev					
Rep %RSD					
Rep 1 Area	3380	3958	10162	20046	38008
Rep 1 User	red	red	red	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\002.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\003.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\004.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\005.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\006.dat
Rep 1 Sample ID	8330 Pt 1 EXP 4112	8330 Pt 2 EXP 4113	8330 Pt 3 EXP 4114	8330 Pt 4 EXP 4115	8330 Pt 5 EXP 4116
Rep 1 Calib. Time	Dec 07, 2010 14:17:56	Dec 07, 2010 13:31:03	Dec 07, 2010 13:31:12	Dec 07, 2010 13:31:20	Dec 07, 2010 13:31:30

Calibration Report

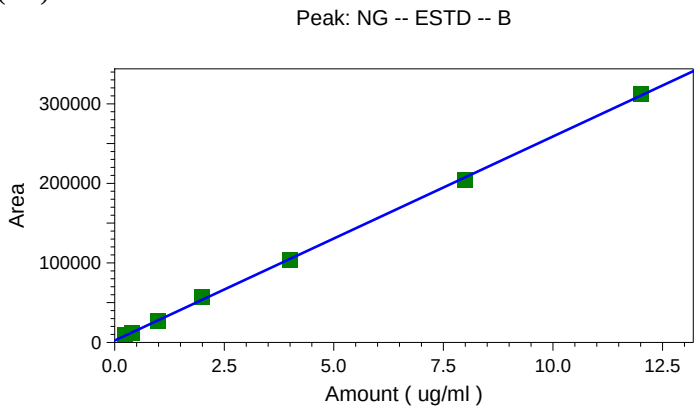
Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:05:14
User: red
Instrument: HPLC 2 (Offline)

	Level 6	Level 7
Amount	2	3
Area	72250	111376
RF	36125	37125.3333333333
Last Area Residual	0.0494319	-0.0197989
Rep StDev		
Rep %RSD		
Rep 1 Area	72250	111376
Rep 1 User	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\007.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\008.dat
Rep 1 Sample ID	8330 Pt 6 EXP 4117	8330 Pt 7 EXP 4118
Rep 1 Calib. Time	Dec 07, 2010 13:38:44	Dec 07, 2010 14:15:32

Calibration Report

Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:05:21
User: red
Instrument: HPLC 2 (Offline)

NG (B)
Average RF: 28563.5 RF StDev: 3675.47 RF %RSD: 12.8677
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 25662.8x + 2342.99
Goodness of fit (r^2): 0.999658



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.24	0.4	1	2	4
Area	8578	12391	27327	56655	103793
RF	35741.6666666667	30977.5	27327	28327.5	25948.25
Last Area Residual	-0.0029591	0.00846	0.0264499	-0.116372	0.0468046
Rep StDev					
Rep %RSD					
Rep 1 Area	8578	12391	27327	56655	103793
Rep 1 User	red	red	red	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\002.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\003.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\004.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\005.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\006.dat
Rep 1 Sample ID	8330 Pt 1 EXP 4112	8330 Pt 2 EXP 4113	8330 Pt 3 EXP 4114	8330 Pt 4 EXP 4115	8330 Pt 5 EXP 4116
Rep 1 Calib. Time	Dec 07, 2010 14:17:56	Dec 07, 2010 13:31:03	Dec 07, 2010 13:31:12	Dec 07, 2010 13:31:20	Dec 07, 2010 13:31:30

Calibration Report

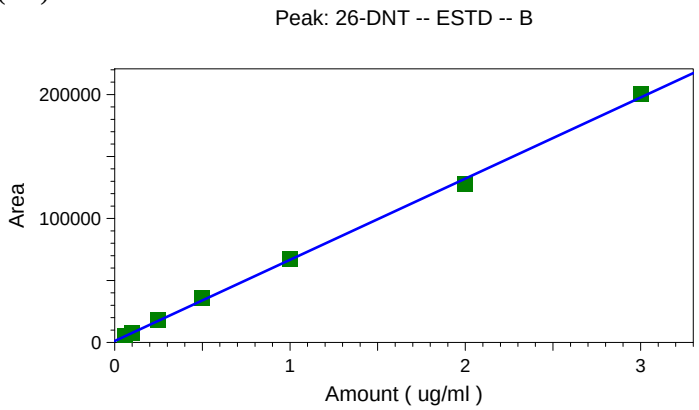
Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:05:21
User: red
Instrument: HPLC 2 (Offline)

	Level 6	Level 7
Amount	8	12
Area	204467	312771
RF	25558.375	26064.25
Last Area Residual	0.123848	-0.0964265
Rep StDev		
Rep %RSD		
Rep 1 Area	204467	312771
Rep 1 User	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\007.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\008.dat
Rep 1 Sample ID	8330 Pt 6 EXP 4117	8330 Pt 7 EXP 4118
Rep 1 Calib. Time	Dec 07, 2010 13:38:44	Dec 07, 2010 14:15:32

Calibration Report

Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:05:23
User: red
Instrument: HPLC 2 (Offline)

26-DNT (B)
Average RF: 71221.8 RF StDev: 7483.44 RF %RSD: 10.5072
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 65473.0x + 1152.11
Goodness of fit (r^2): 0.998945



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.06	0.1	0.25	0.5	1
Area	5206	7213	17748	35576	66853
RF	86766.66666 66667	72130	70992	71152	66853
Last Area Residual	-0.00191696	0.00742918	-0.00347683	-0.0257723	-0.0034806
Rep StDev					
Rep %RSD					
Rep 1 Area	5206	7213	17748	35576	66853
Rep 1 User	red	red	red	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\002.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\003.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\004.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\005.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\006.dat
Rep 1 Sample ID	8330 Pt 1 EXP 4112	8330 Pt 2 EXP 4113	8330 Pt 3 EXP 4114	8330 Pt 4 EXP 4115	8330 Pt 5 EXP 4116
Rep 1 Calib. Time	Dec 07, 2010 14:17:56	Dec 07, 2010 13:31:03	Dec 07, 2010 13:31:12	Dec 07, 2010 13:31:20	Dec 07, 2010 13:31:30

Calibration Report

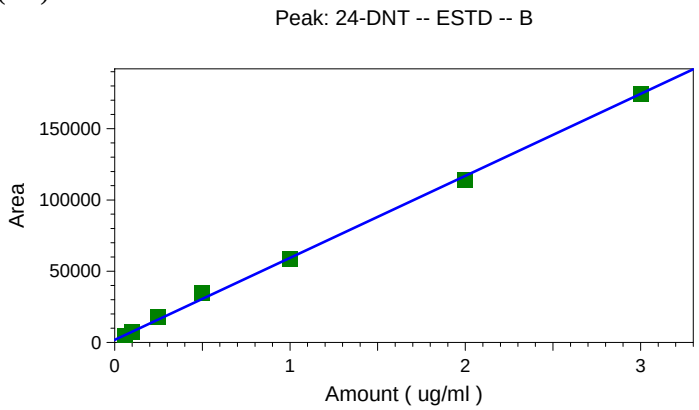
Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:05:23
User: red
Instrument: HPLC 2 (Offline)

	Level 6	Level 7
Amount	2	3
Area	127510	200711
RF	63755	66903.6666666667
Last Area		
Residual	0.0700765	-0.0479568
Rep StDev		
Rep %RSD		
Rep 1 Area	127510	200711
Rep 1 User	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\007.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\008.dat
Rep 1 Sample ID	8330 Pt 6 EXP 4117	8330 Pt 7 EXP 4118
Rep 1 Calib. Time	Dec 07, 2010 13:38:44	Dec 07, 2010 14:15:32

Calibration Report

Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:05:25
User: red
Instrument: HPLC 2 (Offline)

24-DNT (B)
Average RF: 66447.5 RF StDev: 8558.50 RF %RSD: 12.8801
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 57542.3x + 1826.67
Goodness of fit (r^2): 0.998775



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.06	0.1	0.25	0.5	1
Area	4728	7287	17638	34608	58682
RF	78800	72870	70552	69216	58682
Last Area Residual	0.0095793	0.00510771	-0.0247772	-0.0696904	0.0119395
Rep StDev					
Rep %RSD					
Rep 1 Area	4728	7287	17638	34608	58682
Rep 1 User	red	red	red	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\002.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\003.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\004.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\005.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\006.dat
Rep 1 Sample ID	8330 Pt 1 EXP 4112	8330 Pt 2 EXP 4113	8330 Pt 3 EXP 4114	8330 Pt 4 EXP 4115	8330 Pt 5 EXP 4116
Rep 1 Calib. Time	Dec 07, 2010 14:17:56	Dec 07, 2010 13:31:03	Dec 07, 2010 13:31:12	Dec 07, 2010 13:31:20	Dec 07, 2010 13:31:30

Level 6	Level 7

Calibration Report

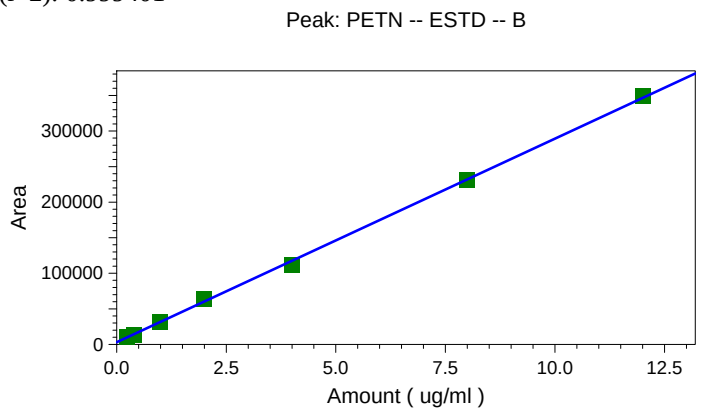
Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:05:25
User: red
Instrument: HPLC 2 (Offline)

Amount	2	3
Area	113635	174585
RF	56817.5	58195
Last Area		
Residual	0.0569385	-0.0022814
Rep StDev		
Rep %RSD		
Rep 1 Area	113635	174585
Rep 1 User	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\007.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\008.dat
Rep 1 Sample ID	8330 Pt 6 EXP 4117	8330 Pt 7 EXP 4118
Rep 1 Calib. Time	Dec 07, 2010 13:38:44	Dec 07, 2010 14:15:32

Calibration Report

Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:05:26
User: red
Instrument: HPLC 2 (Offline)

PETN (B)
Average RF: 32435.3 RF StDev: 5382.24 RF %RSD: 16.5938
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 28614.1x + 3015.33
Goodness of fit (r^2): 0.999401



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.24	0.4	1	2	4
Area	10480	13645	31078	64250	111872
RF	43666.66666 66667	34112.5	31078	32125	27968
Last Area Residual	-0.020874	0.0285161	0.0192703	-0.14002	0.195694
Rep StDev					
Rep %RSD					
Rep 1 Area	10480	13645	31078	64250	111872
Rep 1 User	red	red	red	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\002.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\003.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\004.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\005.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\006.dat
Rep 1 Sample ID	8330 Pt 1 EXP 4112	8330 Pt 2 EXP 4113	8330 Pt 3 EXP 4114	8330 Pt 4 EXP 4115	8330 Pt 5 EXP 4116
Rep 1 Calib. Time	Dec 07, 2010 14:17:56	Dec 07, 2010 13:31:03	Dec 07, 2010 13:31:12	Dec 07, 2010 13:31:20	Dec 07, 2010 13:31:30

Calibration Report

Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:05:26
User: red
Instrument: HPLC 2 (Offline)

	Level 6	Level 7
Amount	8	12
Area	231664	349665
RF	28958	29138.75
Last Area		
Residual	0.00922193	-0.114659
Rep StDev		
Rep %RSD		
Rep 1 Area	231664	349665
Rep 1 User	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\007.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\008.dat
Rep 1 Sample ID	8330 Pt 6 EXP 4117	8330 Pt 7 EXP 4118
Rep 1 Calib. Time	Dec 07, 2010 13:38:44	Dec 07, 2010 14:15:32

QC Check Standard Report

Sequence : C:\Instarch\Sequence\HPLC 2\8330A_B\120710expic-primary.seq
User : red
Printed : Dec 09, 2010 12:02:56

File	Sample ID	Acquired
C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\002.dat	8330 Pt 1 EXP 4112	Dec 09, 2010 12:02:56

A

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
HMX	0.060	0.065	7.836	20.000	Passed
RDX	0.060	0.063	5.000	20.000	Passed
12-DNB (SSTD)	12.000	12.716	5.964	20.000	Passed
135-TNB	0.060	0.068	13.107	20.000	Passed
13-DNB	0.060	0.068	13.831	20.000	Passed
TETRYL	0.060	0.054	9.569	20.000	Passed
35-DNA	0.060	0.067	11.922	20.000	Passed
NB	0.060	0.063	5.363	20.000	Passed
246-TNT	0.060	0.061	1.309	20.000	Passed
4-AM-26-DNT	0.060	0.067	12.344	20.000	Passed
2-AM-46-DNT	0.060	0.069	14.359	20.000	Passed
2-NT	0.060	0.055	7.983	20.000	Passed
4-NT	0.060	0.055	8.105	20.000	Passed
3-NT	0.060	0.068	14.161	20.000	Passed

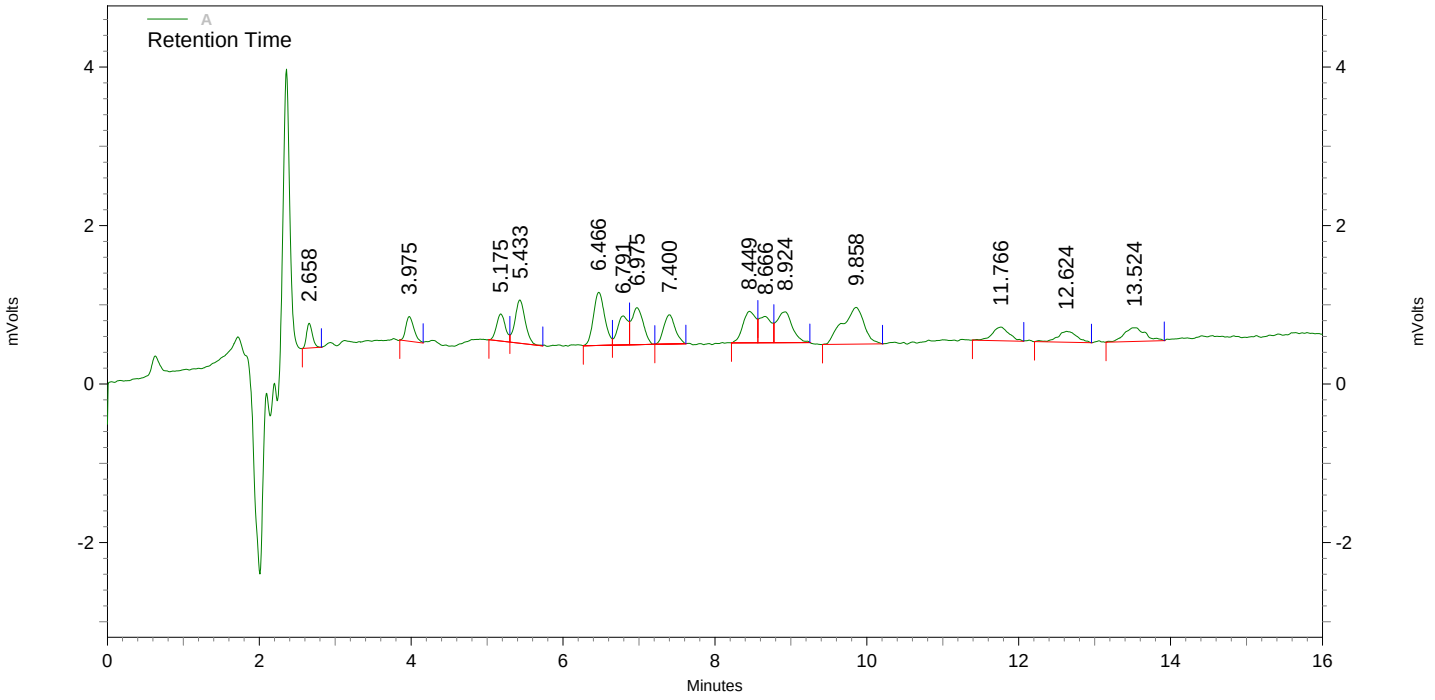
B

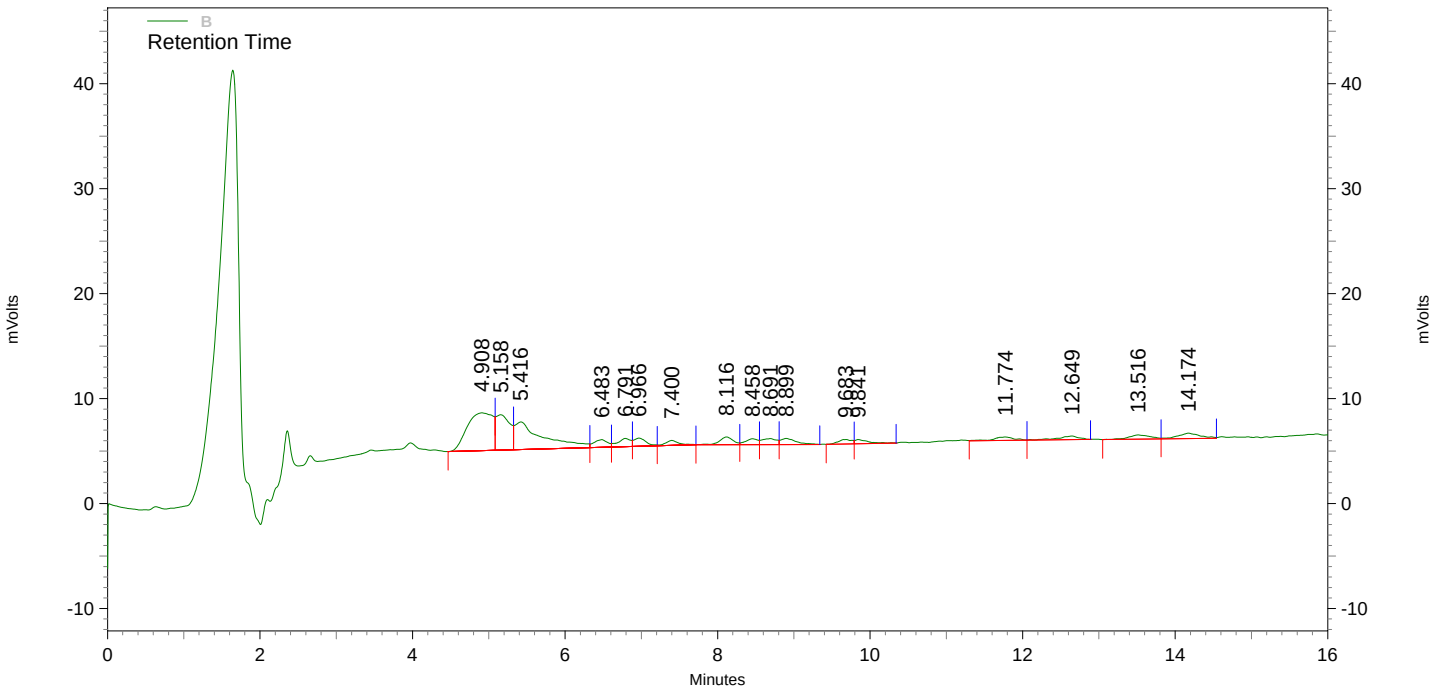
Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
NG	0.240	0.243	1.233	20.000	Passed
26-DNT	0.060	0.062	3.195	20.000	Passed
24-DNT	0.060	0.050	15.966	20.000	Passed
PETN	0.240	0.261	8.697	20.000	Passed

Explosives - 8330

RED
12/10/2010

File: C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\002.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Sample ID: 8330 Pt 1 EXP 4112
Acquired: Dec 07, 2010 11:25:17
Data Summary: {Data Description}





RED

12/10/2010

A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX	2.658	1670	**0.065**
RDX	3.975	2310	**0.063**
12-DNB (SSTD)	5.175	2780	**12.716**
135-TNB	5.433	5055	**0.068**
13-DNB	6.466	6916	**0.068**
TETRYL	6.791	3529	**0.054**
35-DNA	6.975	4925	**0.067**
NB	7.400	3874	**0.063**
246-TNT	8.449	4735	**0.061**
4-AM-26-DNT	8.666	3735	**0.067**
2-AM-46-DNT	8.924	5563	**0.069**
2-NT	11.766	2680	**0.055**
4-NT	12.624	2439	**0.055**
3-NT	13.524	3380	**0.068**

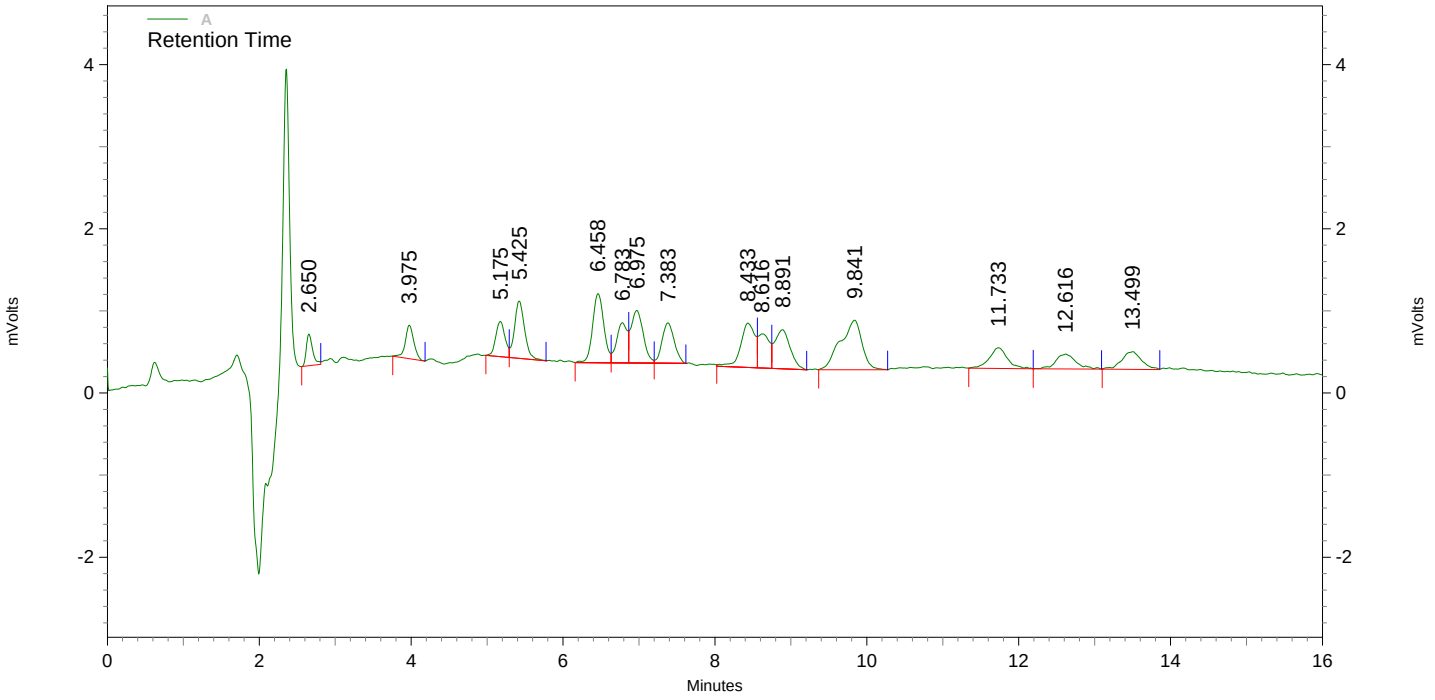
B Results

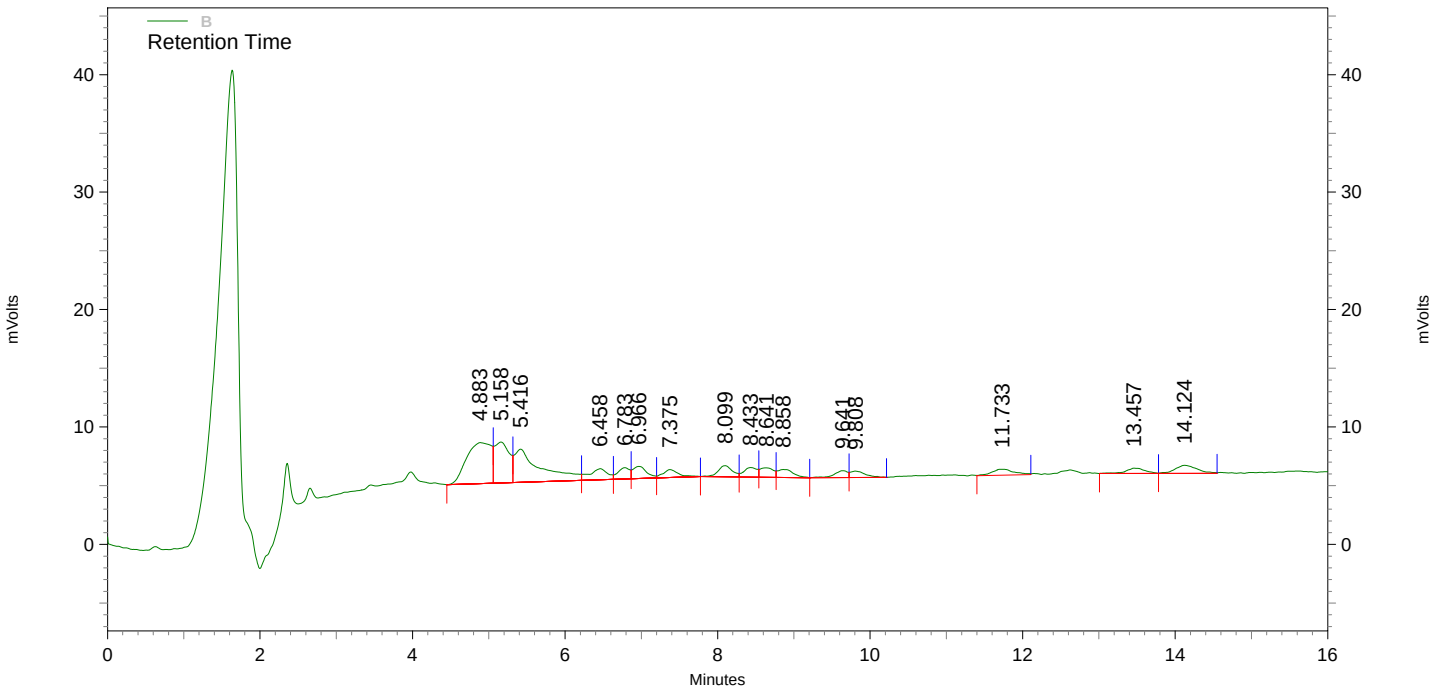
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG	8.116	8578	**0.243**
26-DNT	9.683	5206	**0.062**
24-DNT	9.841	4728	**0.050**
PETN	14.174	10480	**0.261**

Explosives - 8330

RED
12/10/2010

File: C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\003.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Sample ID: 8330 Pt 2 EXP 4113
Acquired: Dec 07, 2010 11:48:29
Data Summary: {Data Description}





A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX	2.650	2240	**0.100 CAL**
RDX	3.975	3190	**0.100 CAL**
12-DNB (SSTD)	5.175	3650	**20.000 CAL**
135-TNB	5.425	6438	**0.100 CAL**
13-DNB	6.458	8663	**0.100 CAL**
TETRYL	6.783	4809	**0.100 CAL**
35-DNA	6.975	7098	**0.100 CAL**
NB	7.383	5489	**0.100 CAL**
246-TNT	8.433	7047	**0.100 CAL**
4-AM-26-DNT	8.616	4316	**0.100 CAL**
2-AM-46-DNT	8.891	6680	**0.100 CAL**
2-NT	11.733	4216	**0.100 CAL**
4-NT	12.616	3405	**0.100 CAL**
3-NT	13.499	3958	**0.100 CAL**

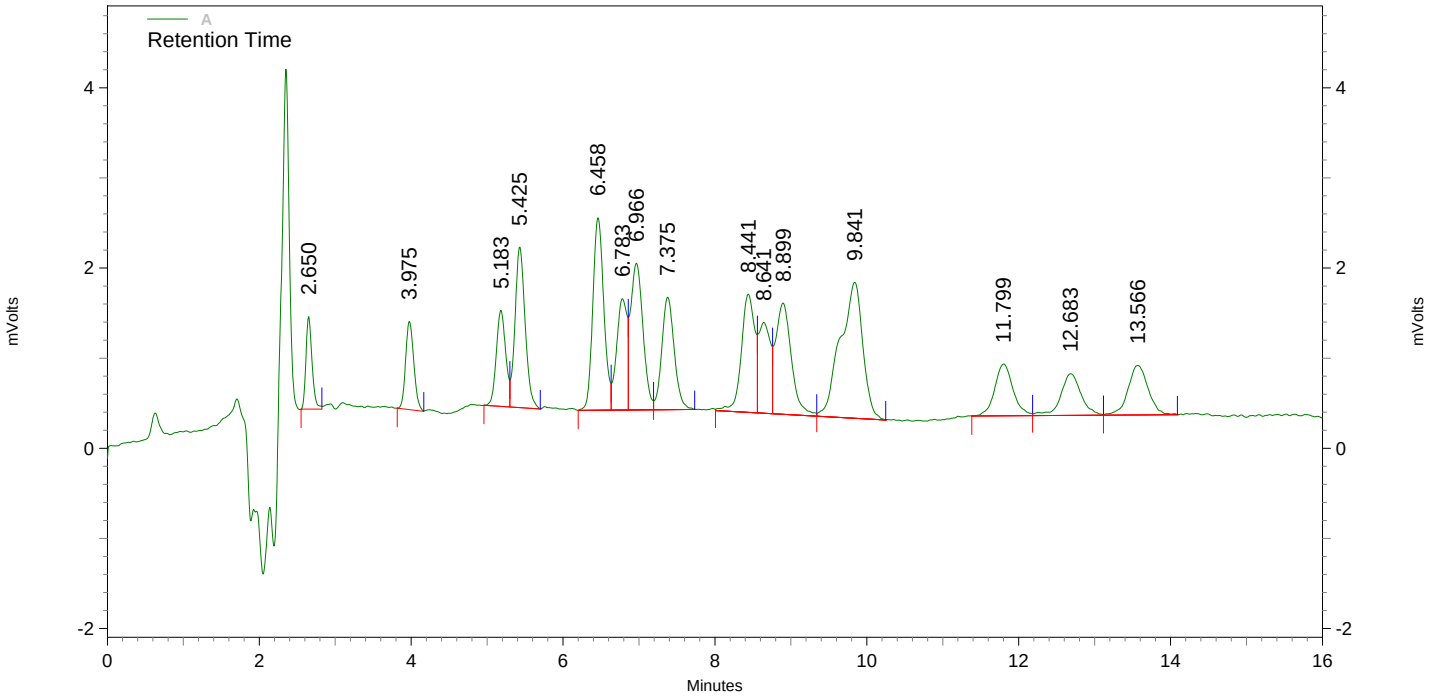
B Results

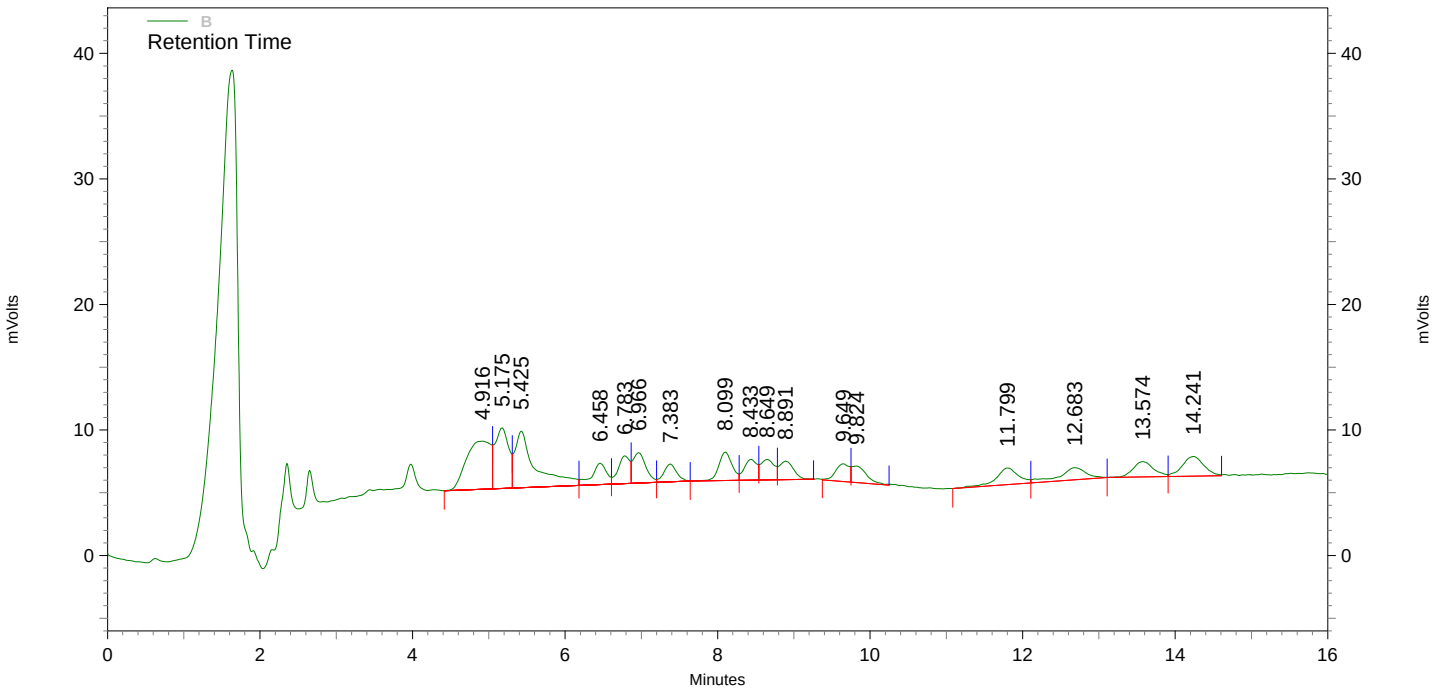
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG	8.099	12391	**0.400 CAL**
26-DNT	9.641	7213	**0.100 CAL**
24-DNT	9.808	7287	**0.100 CAL**
PETN	14.124	13645	**0.400 CAL**

Explosives - 8330

RED
12/10/2010

File: C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\004.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Sample ID: 8330 Pt 3 EXP 4114
Acquired: Dec 07, 2010 12:11:41
Data Summary: {Data Description}





12/10/2010

A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX	2.650	5773	**0.250 CAL**
RDX	3.975	7354	**0.250 CAL**
12-DNB (SSTD)	5.183	9184	**50.000 CAL**
135-TNB	5.425	16587	**0.250 CAL**
13-DNB	6.458	21497	**0.250 CAL**
TETRYL	6.783	11844	**0.250 CAL**
35-DNA	6.966	18529	**0.250 CAL**
NB	7.375	14302	**0.250 CAL**
246-TNT	8.441	16110	**0.250 CAL**
4-AM-26-DNT	8.641	10824	**0.250 CAL**
2-AM-46-DNT	8.899	17805	**0.250 CAL**
2-NT	11.799	9623	**0.250 CAL**
4-NT	12.683	8614	**0.250 CAL**
3-NT	13.566	10162	**0.250 CAL**

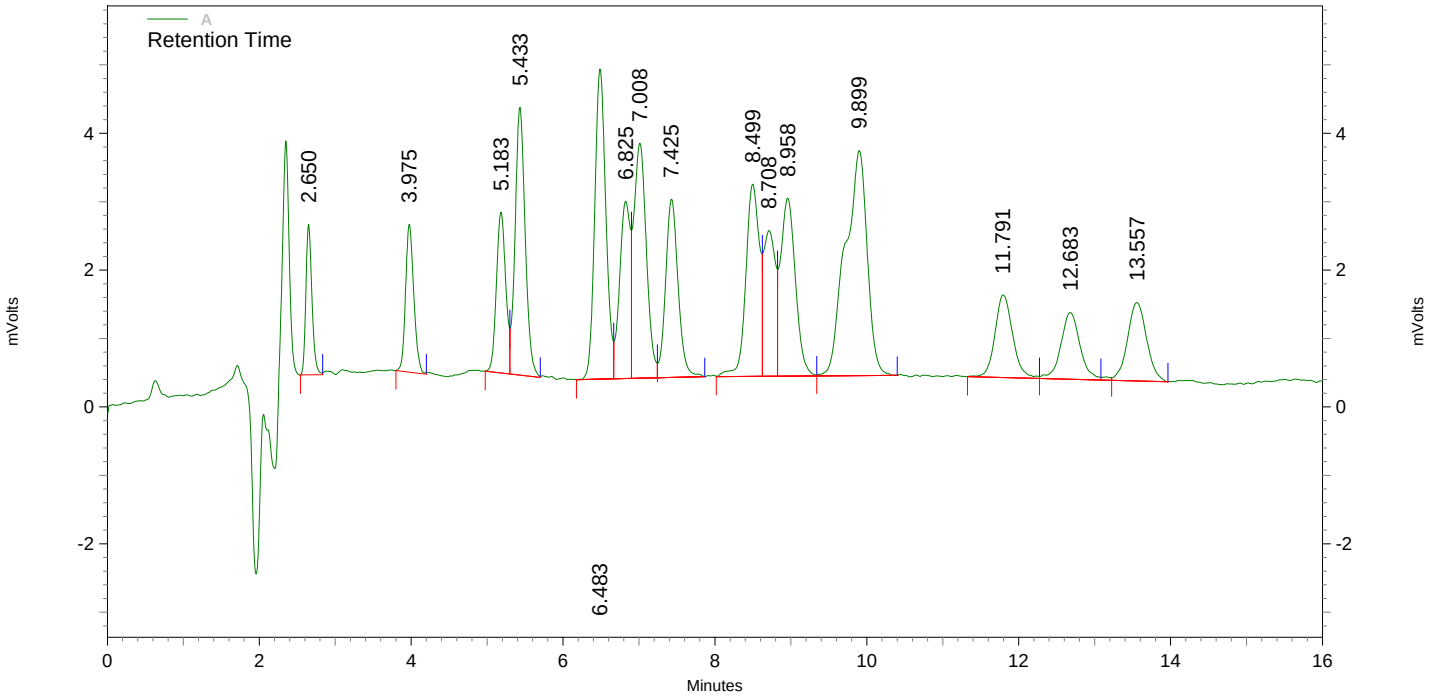
B Results

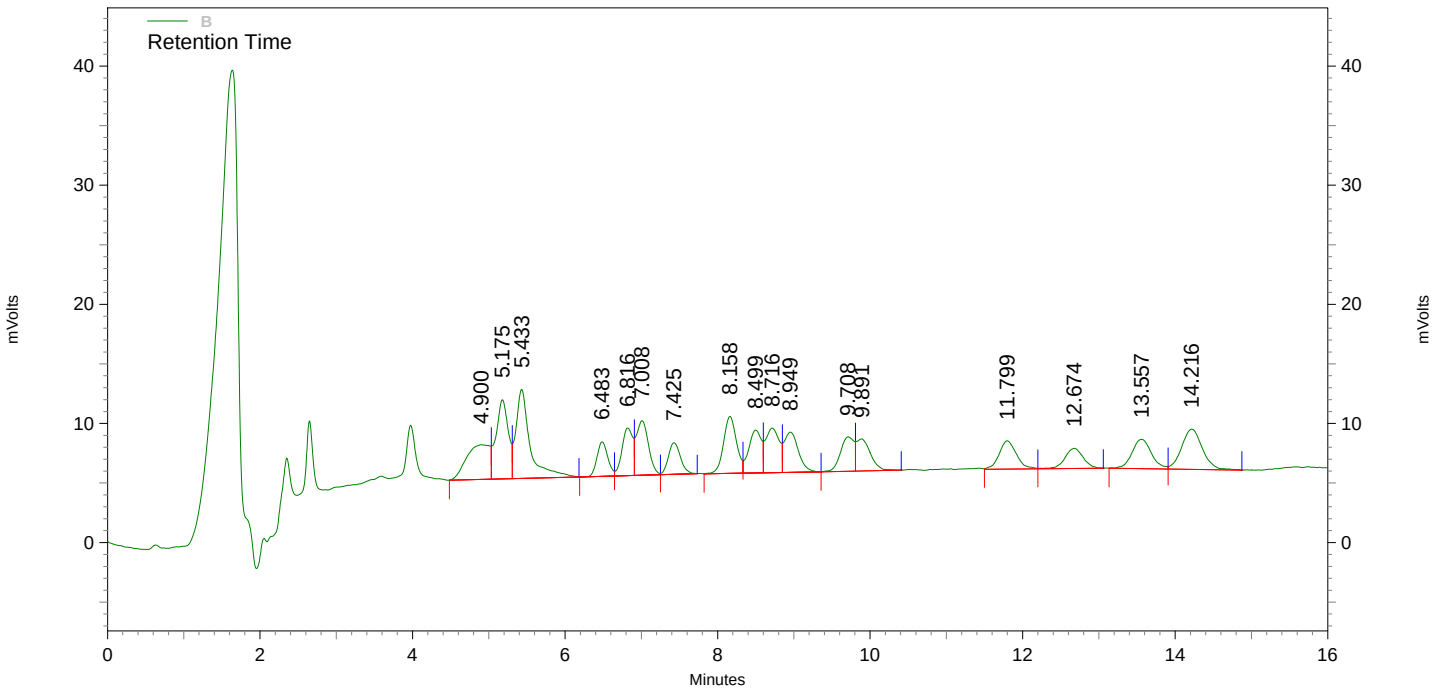
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG	8.099	27327	**1.000 CAL**
26-DNT	9.649	17748	**0.250 CAL**
24-DNT	9.824	17638	**0.250 CAL**
PETN	14.241	31078	**1.000 CAL**

Explosives - 8330

RED
12/10/2010

File: C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\005.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Sample ID: 8330 Pt 4 EXP 4115
Acquired: Dec 07, 2010 12:34:51
Data Summary: {Data Description}





RED

12/10/2010

A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX	2.650	12243	**0.500 CAL**
RDX	3.975	16272	**0.500 CAL**
12-DNB (SSTD)	5.183	20068	**100.000 CAL**
135-TNB	5.433	36258	**0.500 CAL**
13-DNB	6.483	46326	**0.500 CAL**
TETRYL	6.825	25119	**0.500 CAL**
35-DNA	7.008	39635	**0.500 CAL**
NB	7.425	29944	**0.500 CAL**
246-TNT	8.499	35168	**0.500 CAL**
4-AM-26-DNT	8.708	22852	**0.500 CAL**
2-AM-46-DNT	8.958	35304	**0.500 CAL**
2-NT	11.791	19559	**0.500 CAL**
4-NT	12.683	17050	**0.500 CAL**
3-NT	13.557	20046	**0.500 CAL**

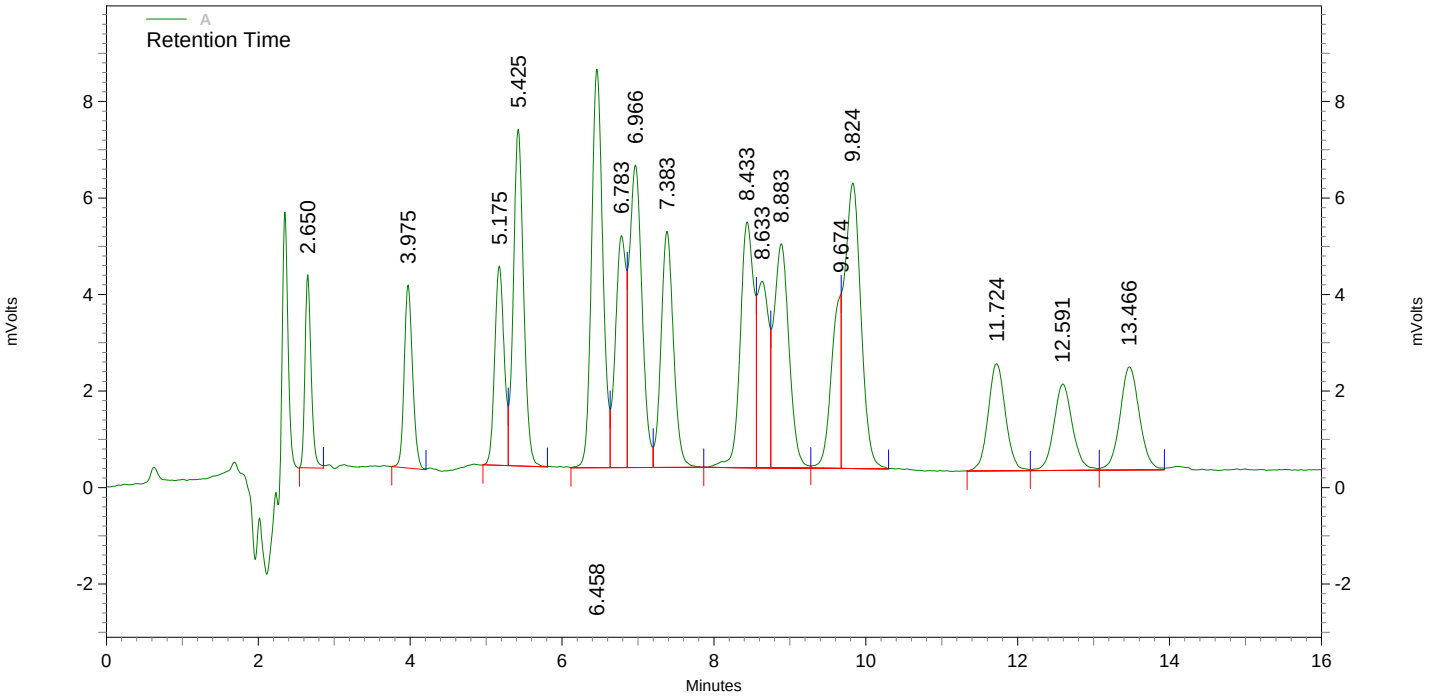
B Results

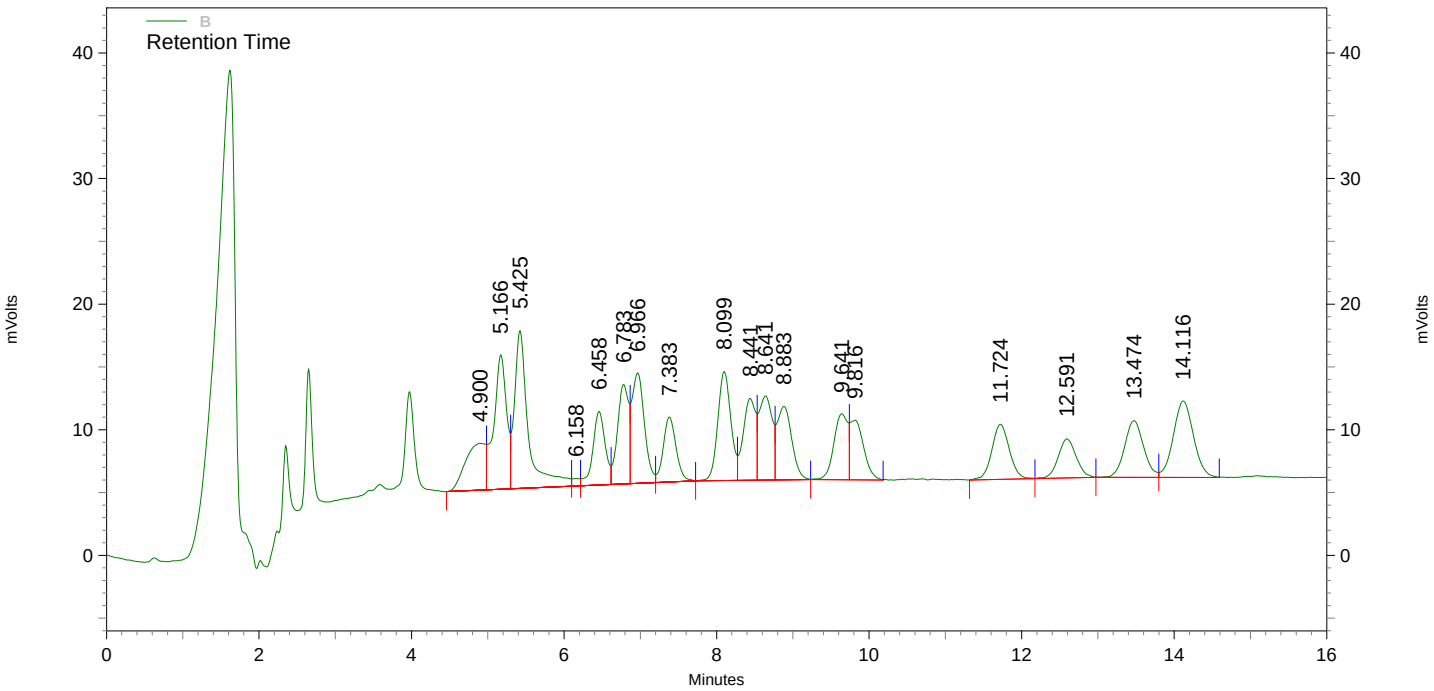
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG	8.158	56655	**2.000 CAL**
26-DNT	9.708	35576	**0.500 CAL**
24-DNT	9.891	34608	**0.500 CAL**
PETN	14.216	64250	**2.000 CAL**

Explosives - 8330

RED
12/10/2010

File: C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\006.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Sample ID: 8330 Pt 5 EXP 4116
Acquired: Dec 07, 2010 12:58:03
Data Summary: {Data Description}





A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX	2.650	22762	**1.000 CAL**
RDX	3.975	29209	**1.000 CAL**
12-DNB (SSTD)	5.175	35627	**200.000 CAL**
135-TNB	5.425	65318	**1.000 CAL**
13-DNB	6.458	85054	**1.000 CAL**
TETRYL	6.783	46725	**1.000 CAL**
35-DNA	6.966	72481	**1.000 CAL**
NB	7.383	55822	**1.000 CAL**
246-TNT	8.433	63581	**1.000 CAL**
4-AM-26-DNT	8.633	40553	**1.000 CAL**
2-AM-46-DNT	8.883	64472	**1.000 CAL**
2-NT	11.724	35203	**1.000 CAL**
4-NT	12.591	30596	**1.000 CAL**
3-NT	13.466	38008	**1.000 CAL**

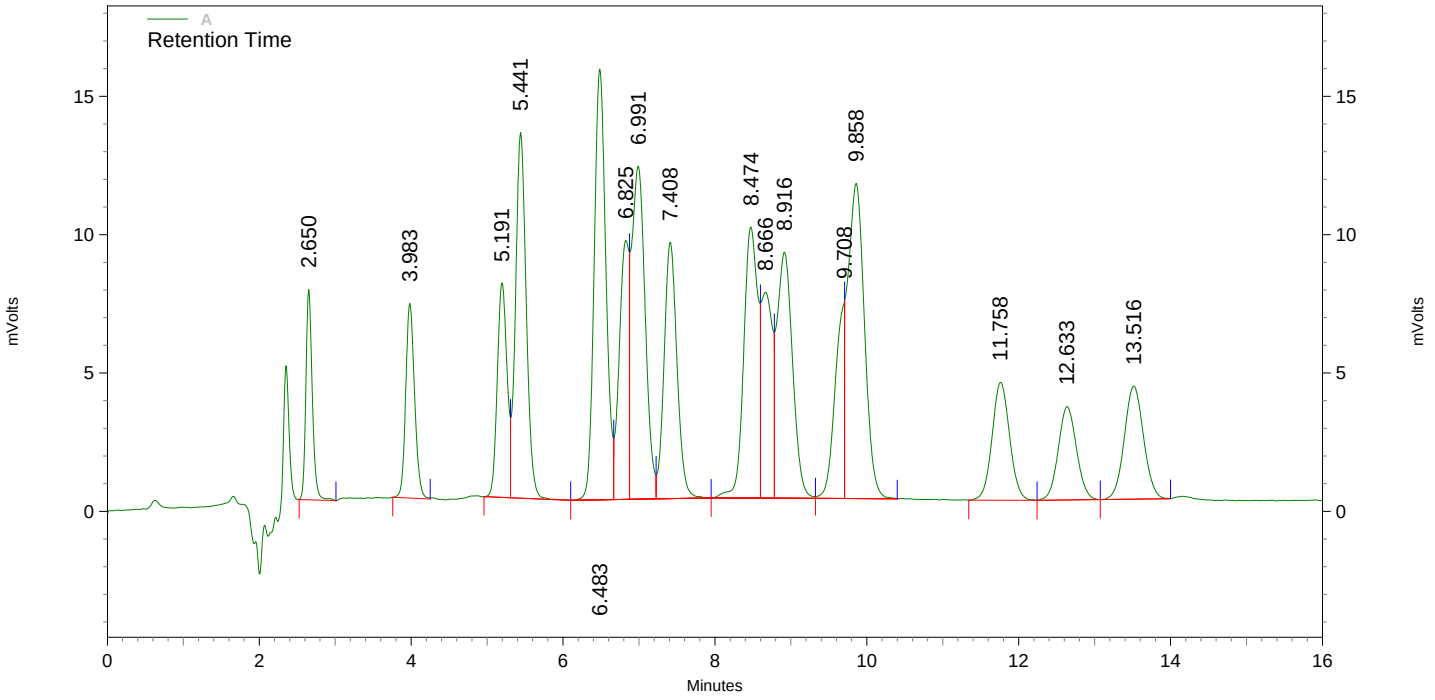
B Results

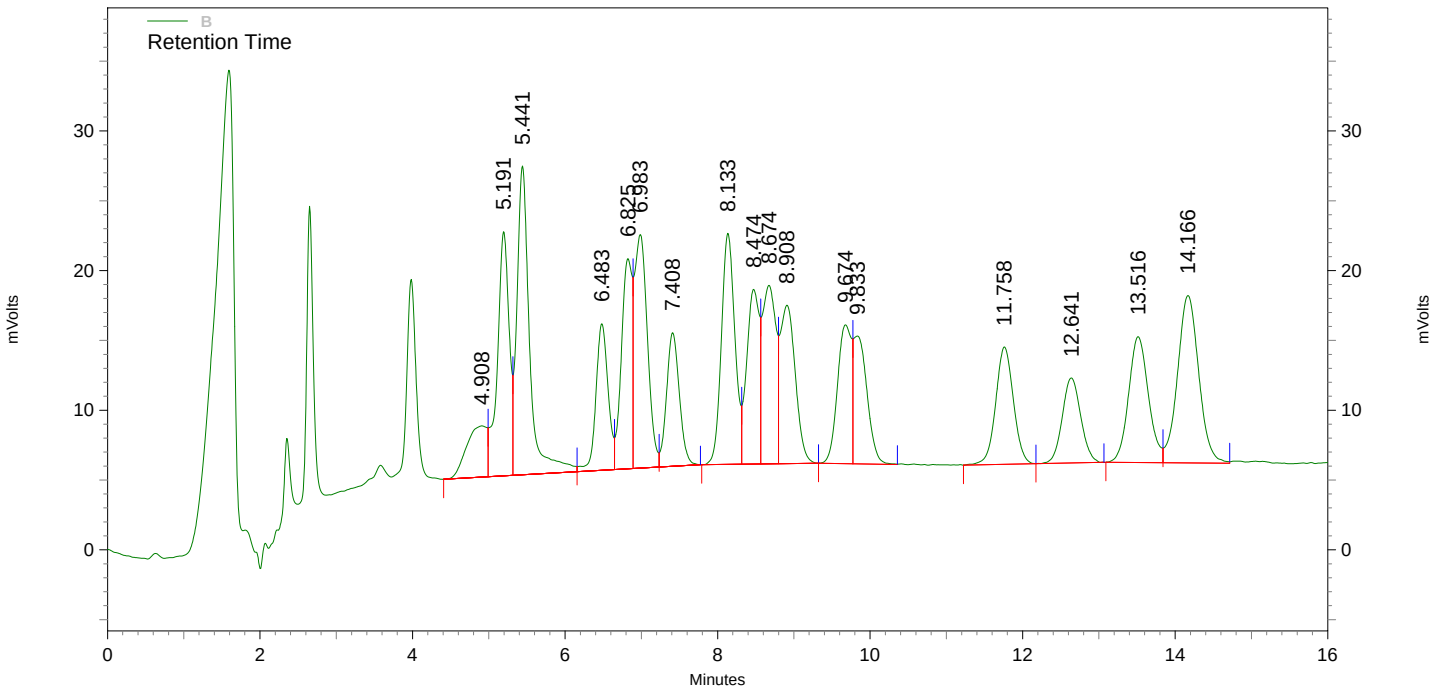
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG	8.099	103793	**4.000 CAL**
26-DNT	9.641	66853	**1.000 CAL**
24-DNT	9.816	58682	**1.000 CAL**
PETN	14.116	111872	**4.000 CAL**

Explosives - 8330

RED
12/10/2010

File: C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\007.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Sample ID: 8330 Pt 6 EXP 4117
Acquired: Dec 07, 2010 13:21:13
Data Summary: {Data Description}





12/10/2010

A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX	2.650	44817	**2.000 CAL**
RDX	3.983	57285	**2.000 CAL**
12-DNB (SSTD)	5.191	69101	**400.000 CAL**
135-TNB	5.441	130488	**2.000 CAL**
13-DNB	6.483	167563	**2.000 CAL**
TETRYL	6.825	82428	**2.000 CAL**
35-DNA	6.991	150948	**2.000 CAL**
NB	7.408	109854	**2.000 CAL**
246-TNT	8.474	127558	**2.000 CAL**
4-AM-26-DNT	8.666	76140	**2.000 CAL**
2-AM-46-DNT	8.916	126776	**2.000 CAL**
2-NT	11.758	68503	**2.000 CAL**
4-NT	12.633	56493	**2.000 CAL**
3-NT	13.516	72250	**2.000 CAL**

B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG	8.133	204467	**8.000 CAL**
26-DNT	9.674	127510	**2.000 CAL**
24-DNT	9.833	113635	**2.000 CAL**
PETN	14.166	231664	**8.000 CAL**

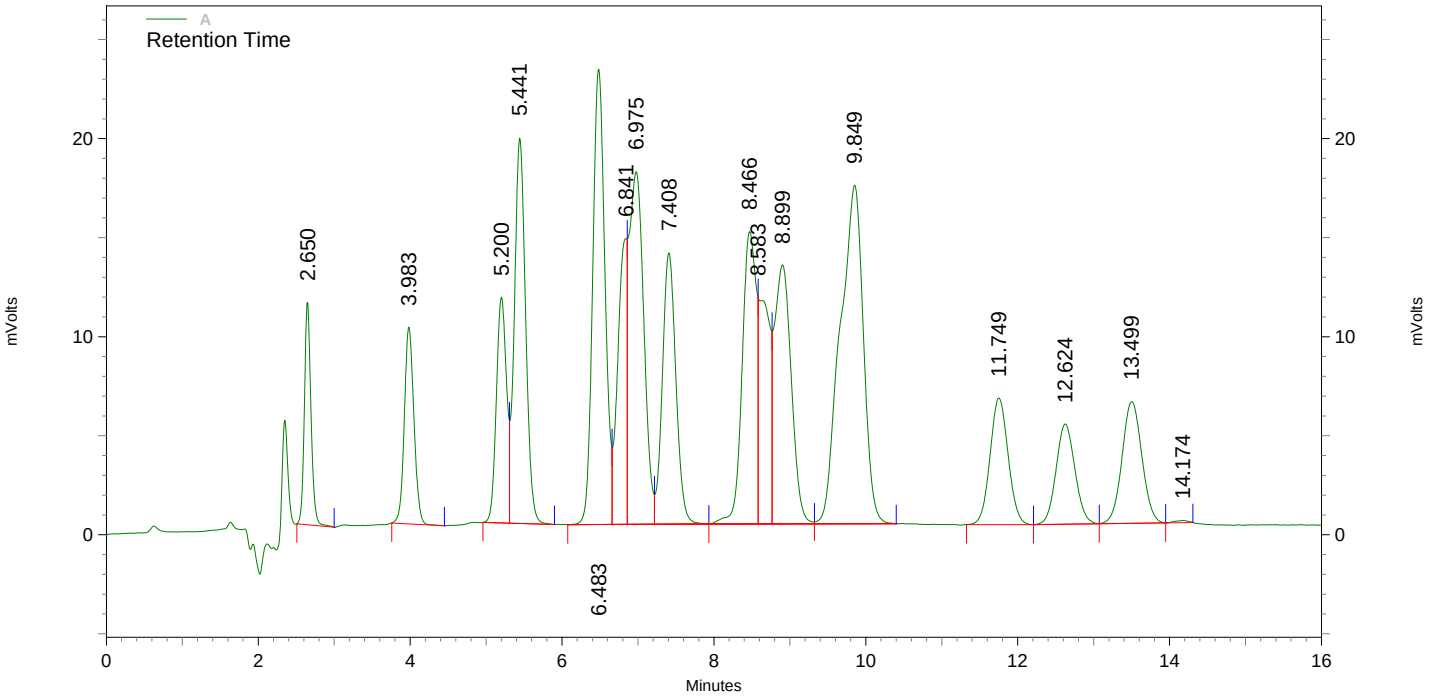
After Manual Integration

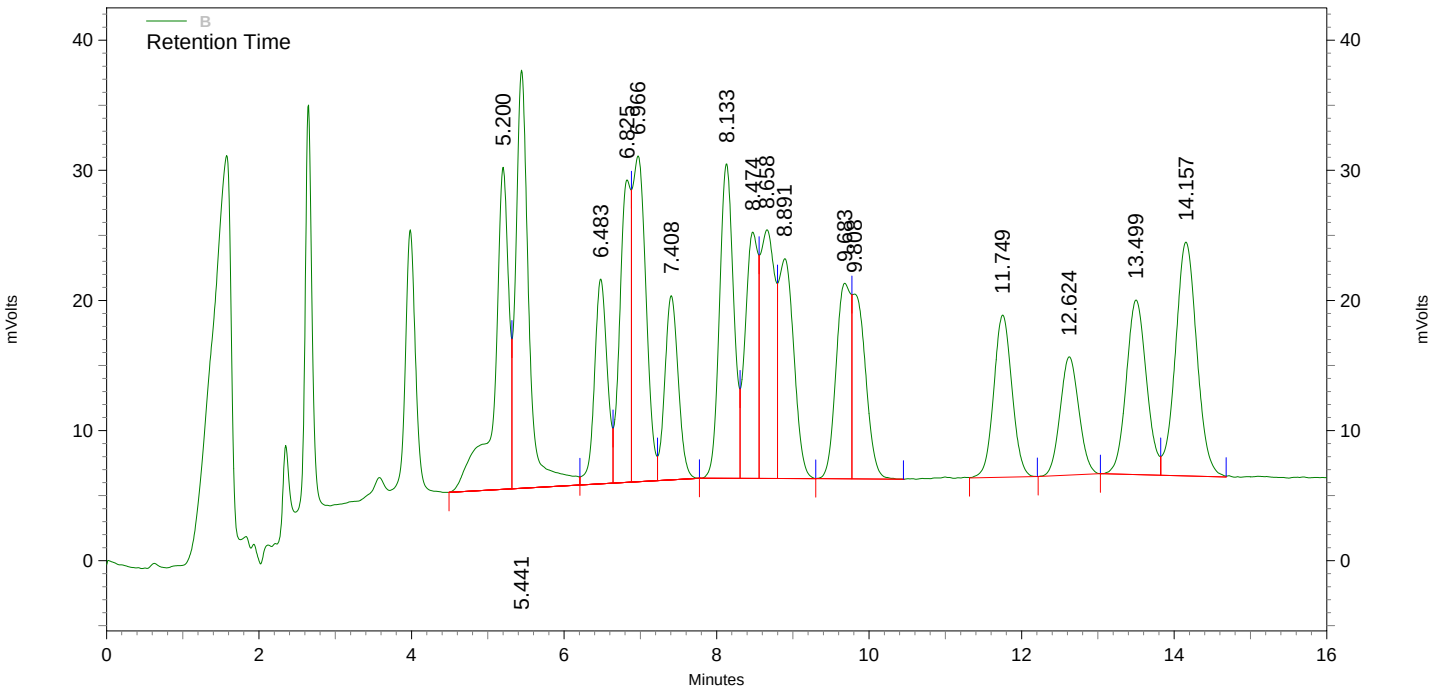
RED 12/10/2010

JJY 12/10/2010

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\008.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Sample ID: 8330 Pt 7 EXP 4118
Acquired: Dec 07, 2010 13:44:22
Data Summary: Reason #3 applies to data. A split was added to separate 246-TNT from 4-AM-26-DNT. RED 12/7/2010





After Manual Integration

RED

JJY 12/10/2010

12/10/2010

A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX	2.650	67909	**3.000 CAL**
RDX	3.983	87135	**3.000 CAL**
12-DNB (SSTD)	5.200	105864	**600.000 CAL**
135-TNB	5.441	201463	**3.000 CAL**
13-DNB	6.483	257544	**3.000 CAL**
TETRYL	6.841	119834	**3.000 CAL**
35-DNA	6.975	241631	**3.000 CAL**
NB	7.408	169716	**3.000 CAL**
246-TNT	8.466	191027	**3.000 CAL**
4-AM-26-DNT	8.583	118729	**3.000 CAL**
2-AM-46-DNT	8.899	200897	**3.000 CAL**
2-NT	11.749	105602	**3.000 CAL**
4-NT	12.624	87317	**3.000 CAL**
3-NT	13.499	111376	**3.000 CAL**

B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG	8.133	312771	**12.000 CAL**
26-DNT	9.683	200711	**3.000 CAL**
24-DNT	9.808	174585	**3.000 CAL**
PETN	14.157	349665	**12.000 CAL**

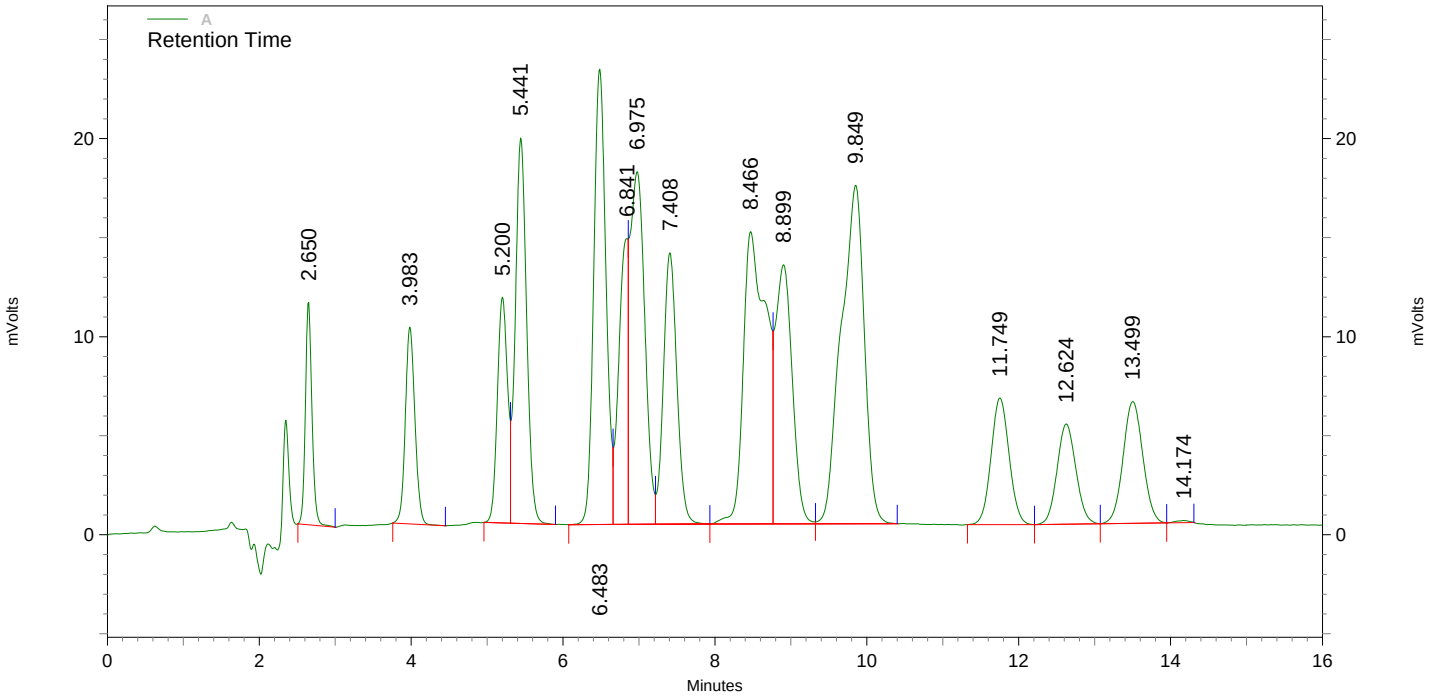
Before Manual Integration

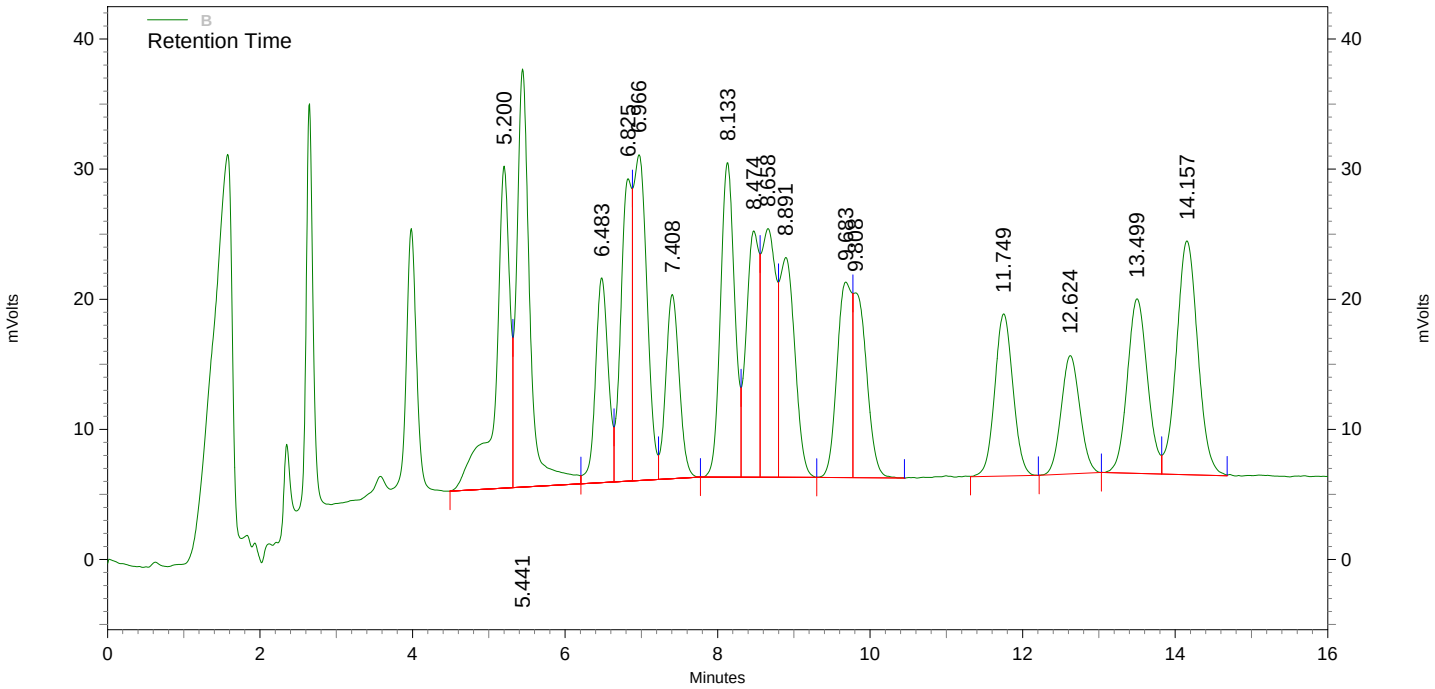
RED 12/10/2010

JJY 12/10/2010

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\008.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Sample ID: 8330 Pt 7 EXP 4118
Acquired: Dec 07, 2010 13:44:22
Data Summary: {Data Description}





Before Manual Integration

JJY 12/10/2010

12/10/2010

A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX	2.650	67909	**3.001**
RDX	3.983	87135	**3.006**
12-DNB (SSTD)	5.200	105864	**601.103**
135-TNB	5.441	201463	**3.036**
13-DNB	6.483	257544	**3.028**
TETRYL	6.841	119834	**2.883**
35-DNA	6.975	241631	**3.117**
NB	7.408	169716	**3.029**
246-TNT	8.466	309756	**4.619**
4-AM-26-DNT			**0.000 BDL**
2-AM-46-DNT	8.899	200897	**3.080**
2-NT	11.749	105602	**3.020**
4-NT	12.624	87317	**2.993**
3-NT	13.499	111376	**3.020**

B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG	8.133	312771	**12.091**
26-DNT	9.683	200711	**3.048**
24-DNT	9.808	174585	**2.996**
PETN	14.157	349665	**12.100**

QC Check Standard Report

Sequence : C:\Instarch\Sequence\HPLC 2\8330A_B\120710expic-primary.seq
User : red
Printed : Dec 09, 2010 12:03:11

File	Sample ID	Acquired
C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\009.dat	8330 ICV EXP 4119	Dec 09, 2010 12:03:11

A

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
HMX	0.500	0.511	2.188	15.000	Passed
RDX	0.500	0.514	2.869	15.000	Passed
12-DNB (SSTD)	100.000	106.005	6.005	15.000	Passed
135-TNB	0.500	0.506	1.140	15.000	Passed
13-DNB	0.500	0.534	6.868	15.000	Passed
TETRYL	0.500	0.435	13.041	15.000	Passed
35-DNA	0.500	0.523	4.680	15.000	Passed
NB	0.500	0.506	1.201	15.000	Passed
246-TNT	0.500	0.520	4.002	15.000	Passed
4-AM-26-DNT	0.500	0.509	1.889	15.000	Passed
2-AM-46-DNT	0.500	0.504	0.784	15.000	Passed
2-NT	0.500	0.501	0.211	15.000	Passed
4-NT	0.500	0.486	2.756	15.000	Passed
3-NT	0.500	0.500	0.034	15.000	Passed

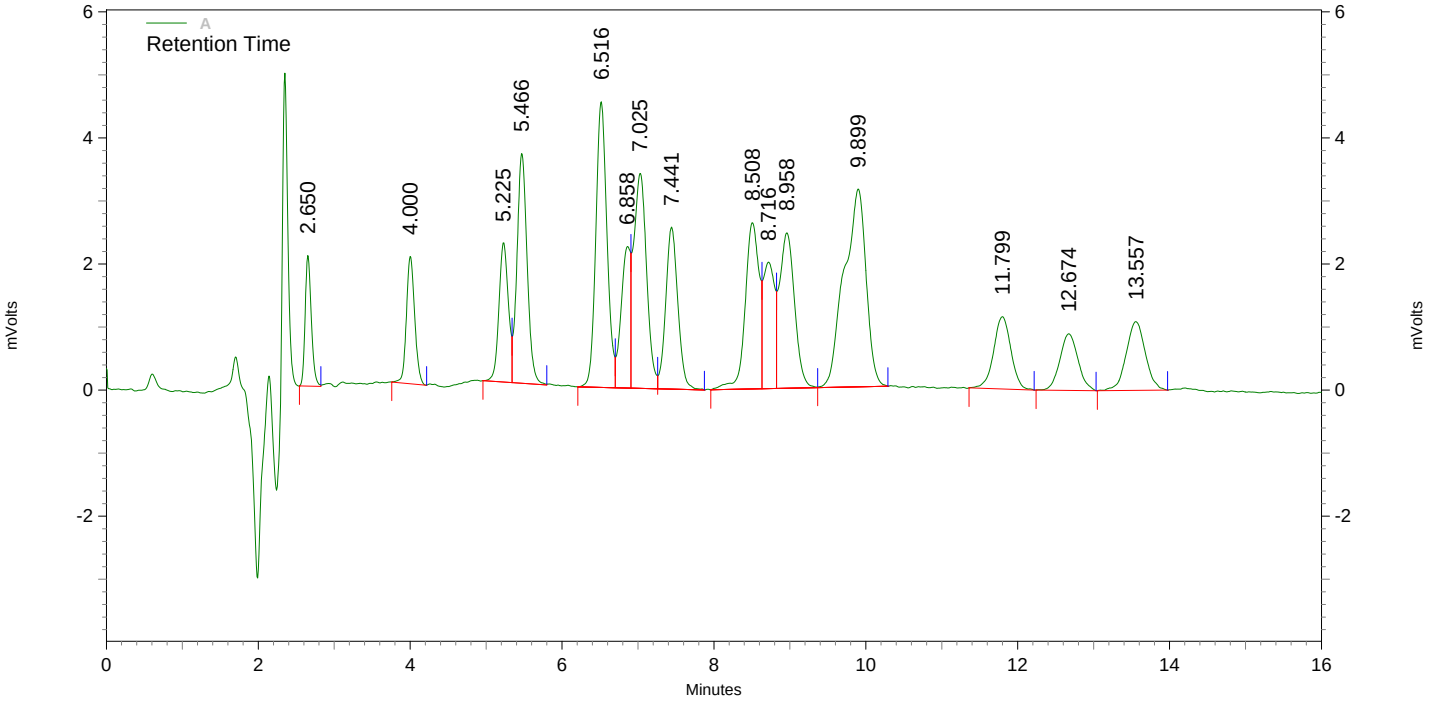
B

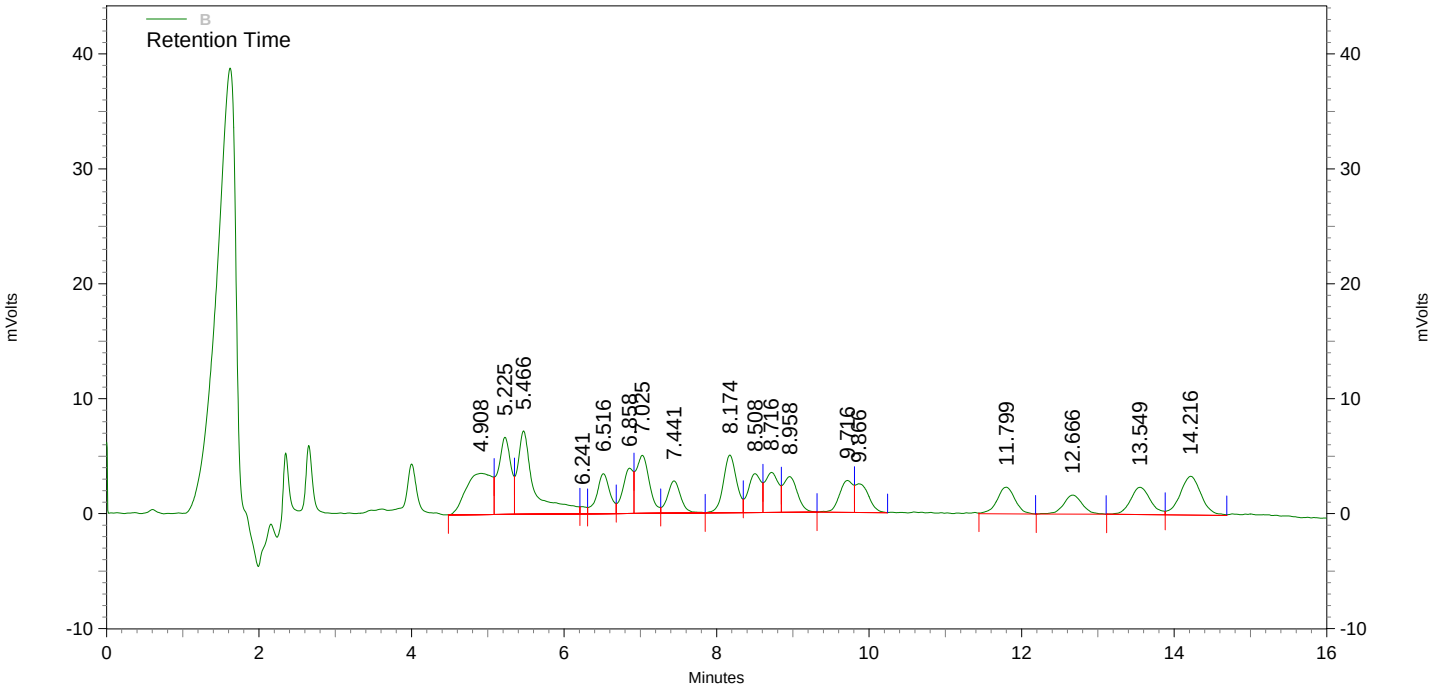
Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
NG	2.000	2.284	14.224	15.000	Passed
26-DNT	0.500	0.508	1.516	15.000	Passed
24-DNT	0.500	0.505	1.012	15.000	Passed
PETN	2.000	2.169	8.465	15.000	Passed

RED
12/10/2010

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\009.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Sample ID: 8330 ICV EXP 4119
Acquired: Dec 07, 2010 14:24:49
Data Summary: {Data Description}





RED
12/10/2010

A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX	2.650	11735	**0.511**
RDX	4.000	15317	**0.514**
12-DNB (SSTD)	5.225	19124	**106.005**
135-TNB	5.466	34025	**0.506**
13-DNB	6.516	46383	**0.534**
TETRYL	6.858	19173	**0.435**
35-DNA	7.025	40339	**0.523**
NB	7.441	28636	**0.506**
246-TNT	8.508	33902	**0.520**
4-AM-26-DNT	8.716	20936	**0.509**
2-AM-46-DNT	8.958	33861	**0.504**
2-NT	11.799	18157	**0.501**
4-NT	12.674	14893	**0.486**
3-NT	13.557	19176	**0.500**

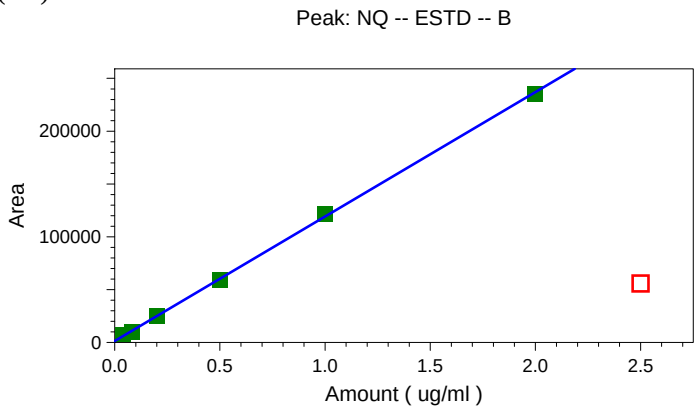
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG	8.174	60969	**2.284**
26-DNT	9.716	34385	**0.508**
24-DNT	9.866	30889	**0.505**
PETN	14.216	65088	**2.169**

Calibration Report

Method:
C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121510NQic-primary.met
Print Time: Dec 23, 2010 14:57:30
User: red
Instrument: HPLC 2 (Offline)

NQ (B)
Average RF: 128815. RF StDev: 18174.8 RF %RSD: 14.1092
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 117882.x + 1345.77
Goodness of fit (r^2): 0.999676



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.04	0.08	0.2	0.5	1
Area	6616	9829	25222	59332	122083
RF	165400	122862.5	126110	118664	122083
Last Area					
Residual	-0.00470768	0.00803626	-0.00254345	0.00809944	-0.0242209
Rep StDev					
Rep %RSD					
Rep 1 Area	6616	9829	25222	59332	122083
Rep 1 User	red	red	red	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\NQ\121510NQic-primary\002.dat	C:\Instarch\Data\HPLC 2\NQ\121510NQic-primary\003.dat	C:\Instarch\Data\HPLC 2\NQ\121510NQic-primary\004.dat	C:\Instarch\Data\HPLC 2\NQ\121510NQic-primary\005.dat	C:\Instarch\Data\HPLC 2\NQ\121510NQic-primary\006.dat
Rep 1 Sample ID	NQ pt. 1 EXP 4131	NQ pt. 2 EXP 4132	NQ pt. 3 EXP 4133	NQ pt. 4 EXP 4134	NQ pt. 5 EXP 4135
Rep 1 Calib. Time	Dec 15, 2010 15:06:50	Dec 15, 2010 15:07:00	Dec 15, 2010 15:07:09	Dec 15, 2010 15:13:27	Dec 16, 2010 08:17:04

	Level 6	Level 7
Amount	2	2.5

Calibration Report

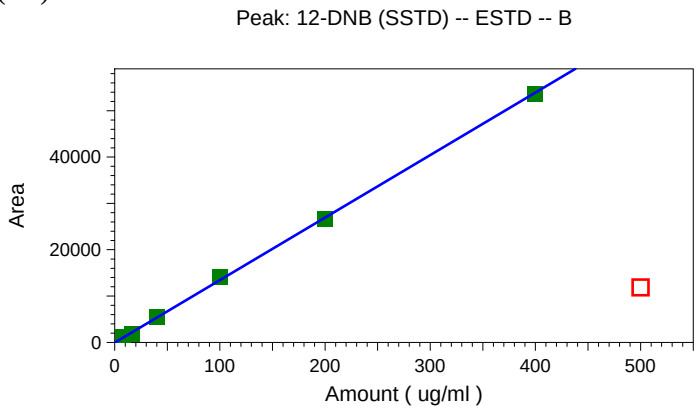
Method:
C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121510NQic-primary.met
Print Time: Dec 23, 2010 14:57:30
User: red
Instrument: HPLC 2 (Offline)

Area	235536	55737*
RF	117768	22294.8
Last Area		
Residual	0.0133507	2.0386
Rep StDev		
Rep %RSD		
Rep 1 Area	235536	55737*
Rep 1 User	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\NQ\121510NQic-primary\007.dat	C:\Instarch\Data\HPLC 2\NQ\121510NQic-primary\008.dat
Rep 1 Sample ID	NQ pt. 6 EXP 4136	NQ pt. 7 EXP 4137
Rep 1 Calib. Time	Dec 16, 2010 08:17:44	Dec 16, 2010 08:17:56

Calibration Report

Method:
C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121510NQic-primary.met
Print Time: Dec 23, 2010 14:57:34
User: red
Instrument: HPLC 2 (Offline)

12-DNB (SSTD) (B)
Average RF: 134.612 RF StDev: 11.2521 RF %RSD: 8.35893
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 134.911x - 30.3536
Goodness of fit (r^2): 0.999541



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	8	16	40	100	200
Area	1164	1821	5568	14218	26554
RF	145.5	113.8125	139.2	142.18	132.77
Last Area Residual	-0.85289	2.27724	-1.49659	-5.61286	2.94919
Rep StDev					
Rep %RSD					
Rep 1 Area	1164	1821	5568	14218	26554
Rep 1 User	red	red	red	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\NQ\121510NQic-primary\002.dat	C:\Instarch\Data\HPLC 2\NQ\121510NQic-primary\003.dat	C:\Instarch\Data\HPLC 2\NQ\121510NQic-primary\004.dat	C:\Instarch\Data\HPLC 2\NQ\121510NQic-primary\005.dat	C:\Instarch\Data\HPLC 2\NQ\121510NQic-primary\006.dat
Rep 1 Sample ID	NQ pt. 1 EXP 4131	NQ pt. 2 EXP 4132	NQ pt. 3 EXP 4133	NQ pt. 4 EXP 4134	NQ pt. 5 EXP 4135
Rep 1 Calib. Time	Dec 15, 2010 15:06:50	Dec 15, 2010 15:07:00	Dec 15, 2010 15:07:09	Dec 15, 2010 15:13:27	Dec 16, 2010 08:17:04

	Level 6	Level 7
Amount	400	500

Calibration Report

Method:
C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121510NQic-primary.met
Print Time: Dec 23, 2010 14:57:34
User: red
Instrument: HPLC 2 (Offline)

Area	53683	11847*
RF	134.2075	23.694
Last Area		
Residual	1.8613	411.962
Rep StDev		
Rep %RSD		
Rep 1 Area	53683	11847*
Rep 1 User	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\NQ\121510NQic-primary\007.dat	C:\Instarch\Data\HPLC 2\NQ\121510NQic-primary\008.dat
Rep 1 Sample ID	NQ pt. 6 EXP 4136	NQ pt. 7 EXP 4137
Rep 1 Calib. Time	Dec 16, 2010 08:17:44	Dec 16, 2010 08:17:56

QC Check Standard Report

Sequence : C:\Instarch\Sequence\HPLC 2\NQ\121510NQic-primary.seq
User : red
Printed : Dec 23, 2010 14:57:03

RED
12/30/2010

File	Sample ID	Acquired
C:\Instarch\Data\HPLC 2\NQ\121510NQic-primary\002.dat	NQ pt. 1 EXP 4131	Dec 23, 2010 14:57:03

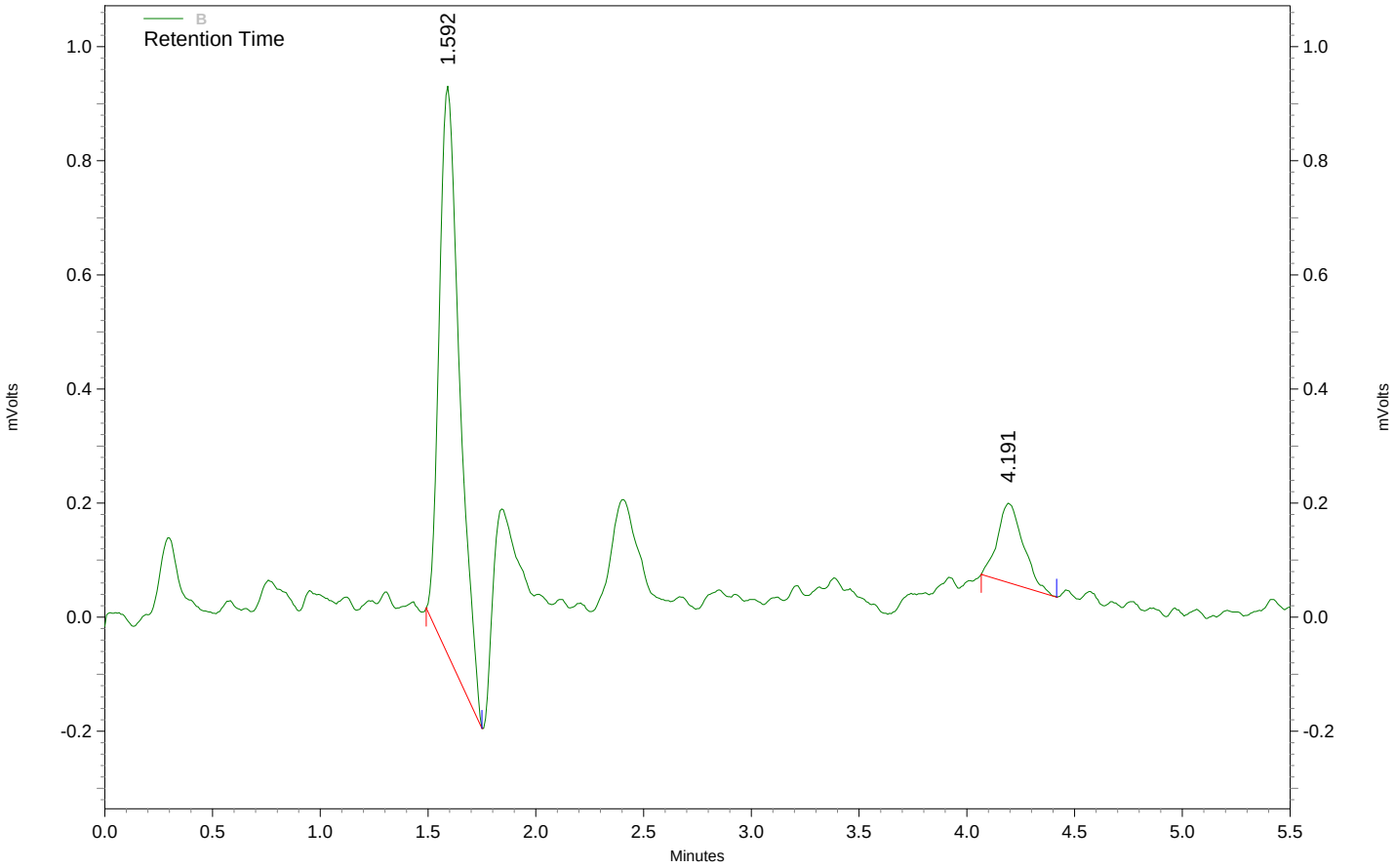
B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
NQ	0.040	0.045	11.769	20.000	**Passed**
12-DNB (SSTD)	8.000	8.868	10.846	20.000	**Passed**

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121510NQic-primary\002.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121510NQic-primary.met
Sample ID: NQ pt. 1 EXP 4131
Acquired: Dec 15, 2010 14:44:21
Data Summary: {Data Description}



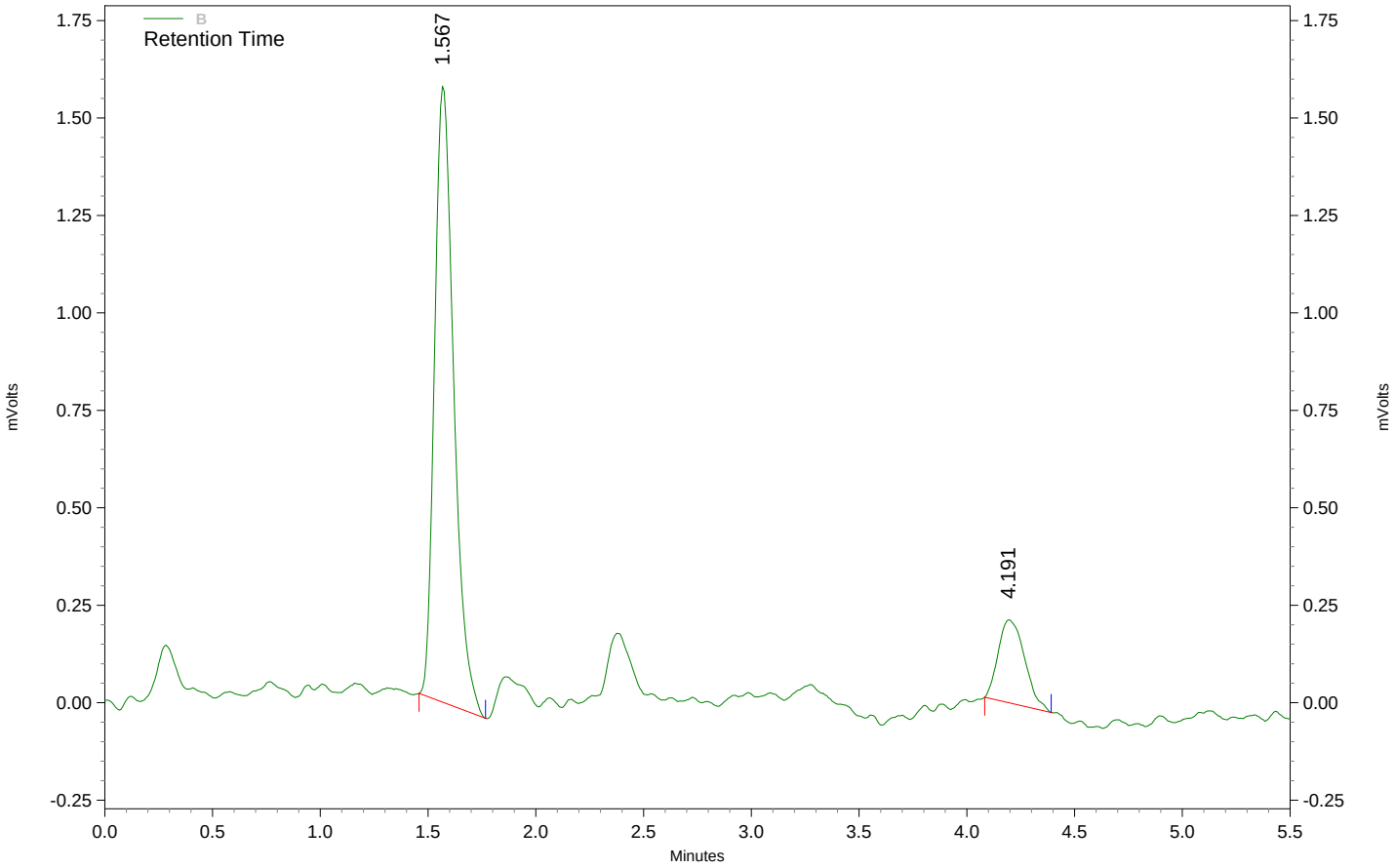
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.592	6616	**0.045**
12-DNB (SSTD)	4.191	1166	**8.868**

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121510NQic-primary\003.dat
User ID: **red**
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121510NQic-primary.met
Sample ID: NQ pt. 2 EXP 4132
Acquired: Dec 15, 2010 14:52:07
Data Summary: {Data Description}



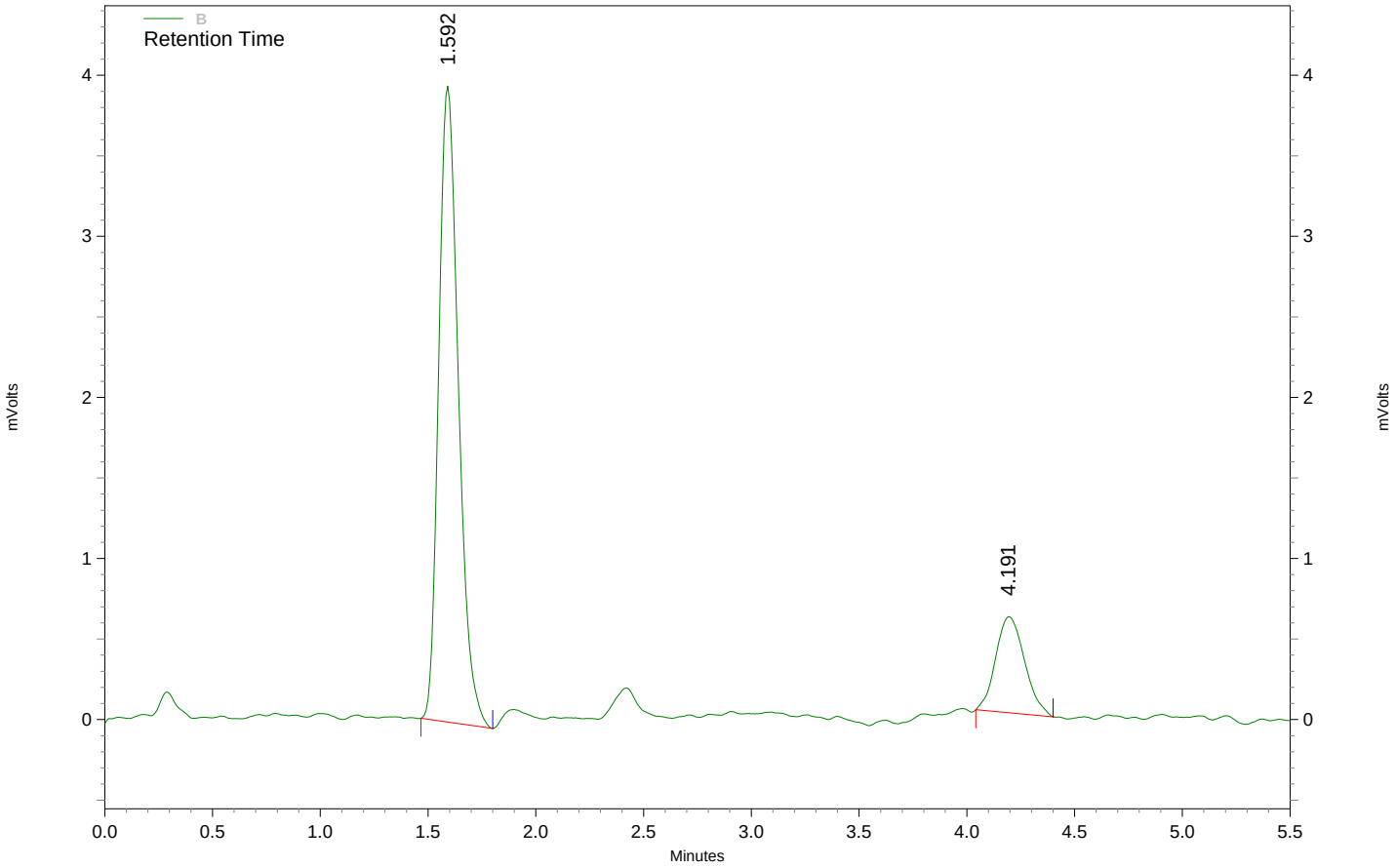
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.567	9829	**0.080 CAL**
12-DNB (SSTD)	4.191	1821	**16.000 CAL**

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121510NQic-primary\004.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121510NQic-primary.met
Sample ID: NQ pt. 3 EXP 4133
Acquired: Dec 15, 2010 14:59:55
Data Summary: {Data Description}



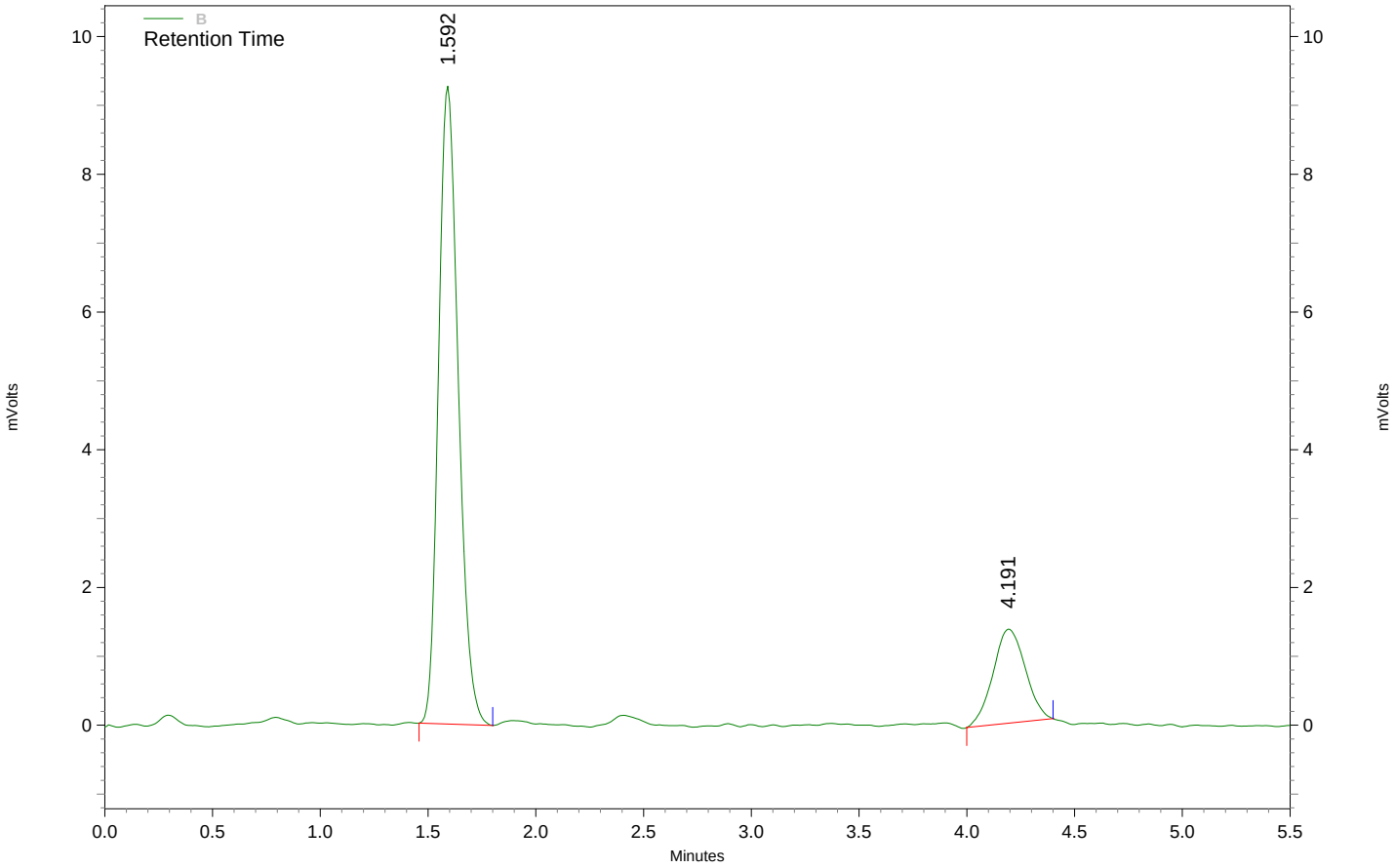
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.592	25222	**0.200 CAL**
12-DNB (SSTD)	4.191	5568	**40.000 CAL**

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121510NQic-primary\005.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121510NQic-primary.met
Sample ID: NQ pt. 4 EXP 4134
Acquired: Dec 15, 2010 15:07:42
Data Summary: {Data Description}



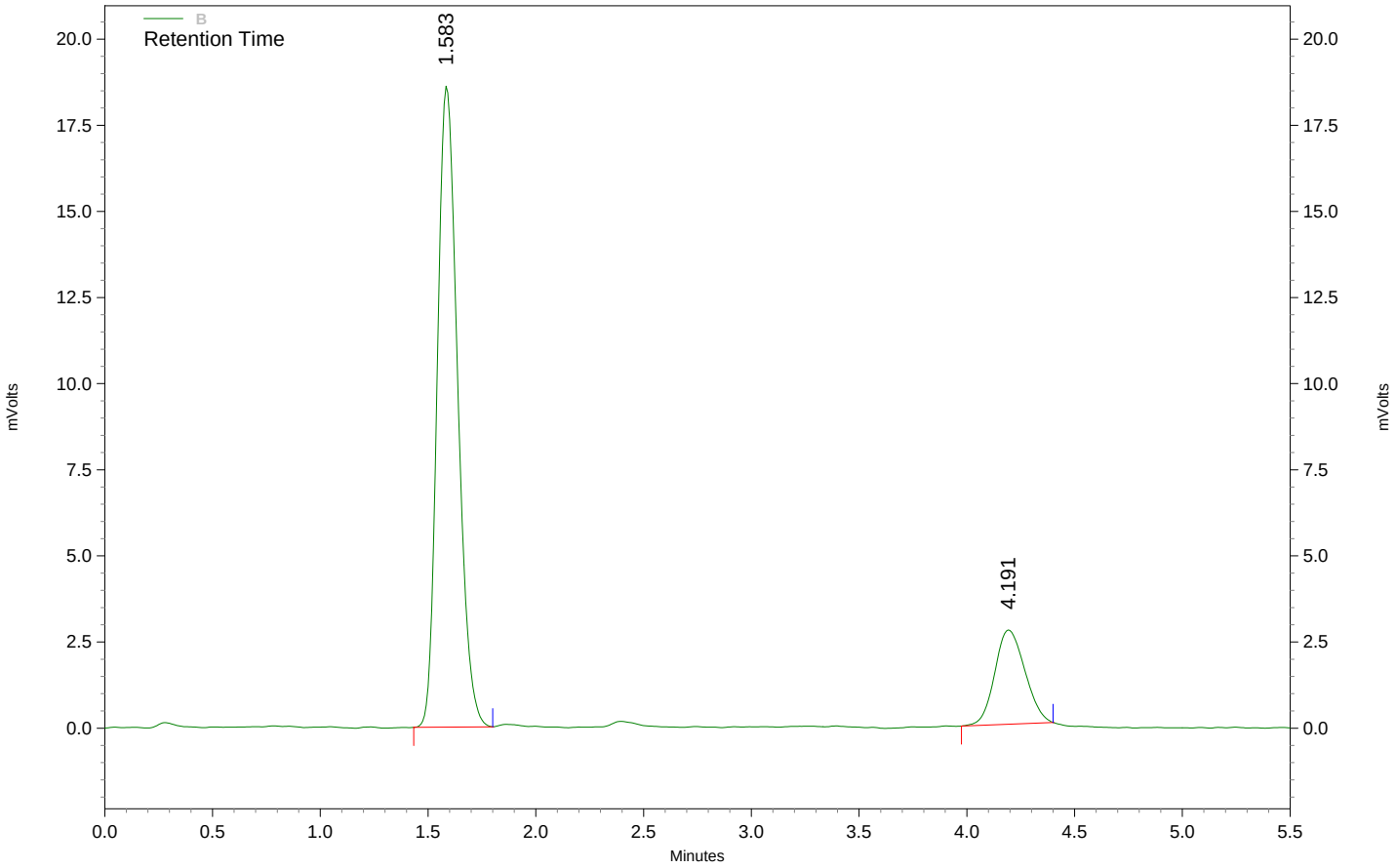
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.592	59332	**0.500 CAL**
12-DNB (SSTD)	4.191	14218	**100.000 CAL**

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121510NQic-primary\006.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121510NQic-primary.met
Sample ID: NQ pt. 5 EXP 4135
Acquired: Dec 15, 2010 15:15:31
Data Summary: {Data Description}



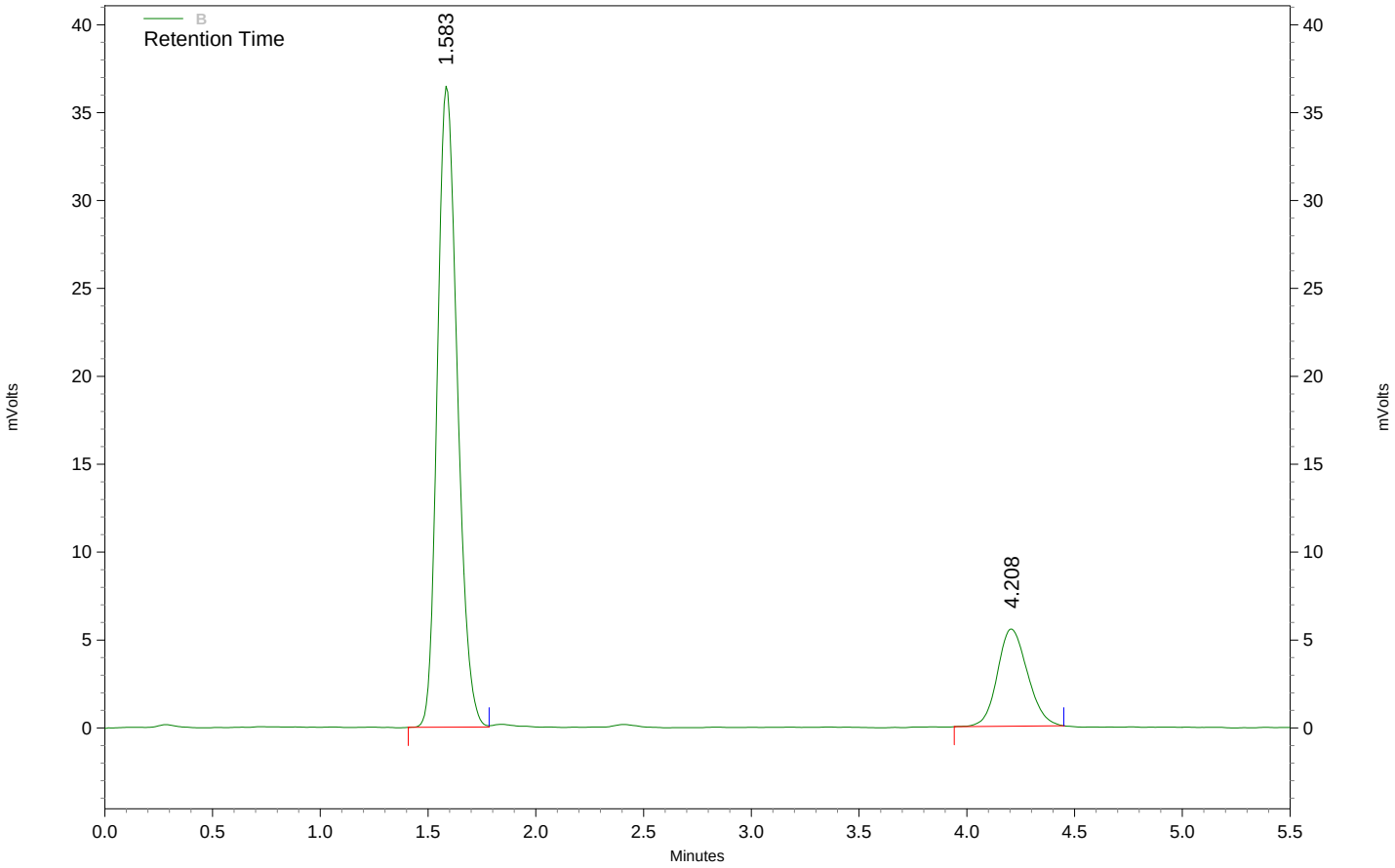
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.583	122083	**1.000 CAL**
12-DNB (SSTD)	4.191	26554	**200.000 CAL**

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121510NQic-primary\007.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121510NQic-primary.met
Sample ID: NQ pt. 6 EXP 4136
Acquired: Dec 15, 2010 15:23:17
Data Summary: {Data Description}



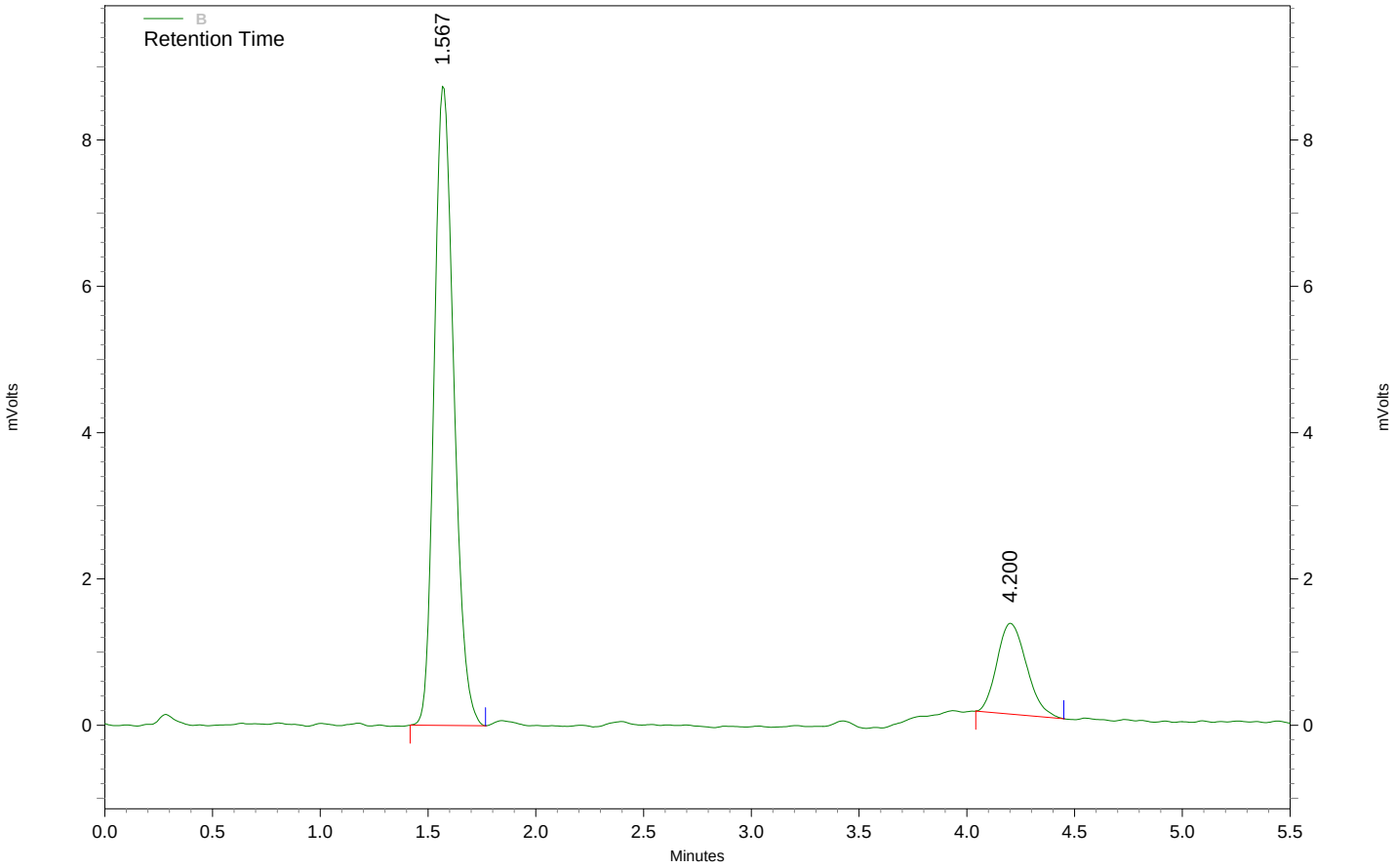
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.583	235536	**2.000 CAL**
12-DNB (SSTD)	4.208	53683	**400.000 CAL**

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121510NQic-primary\008.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121510NQic-primary.met
Sample ID: NQ pt. 7 EXP 4137
Acquired: Dec 15, 2010 15:31:05
Data Summary: {Data Description}



B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.567	55737	**2.500 CAL**
12-DNB (SSTD)	4.200	11847	**500.000 CAL**

QC Check Standard Report

Sequence : C:\Instarch\Sequence\HPLC 2\NQ\121510NQic-primary.seq
User : red
Printed : Dec 23, 2010 14:57:16

RED
12/30/2010

File	Sample ID	Acquired
C:\Instarch\Data\HPLC 2\NQ\121510NQic-primary\009.dat	NQ ICV EXP 4138	Dec 23, 2010 14:57:16

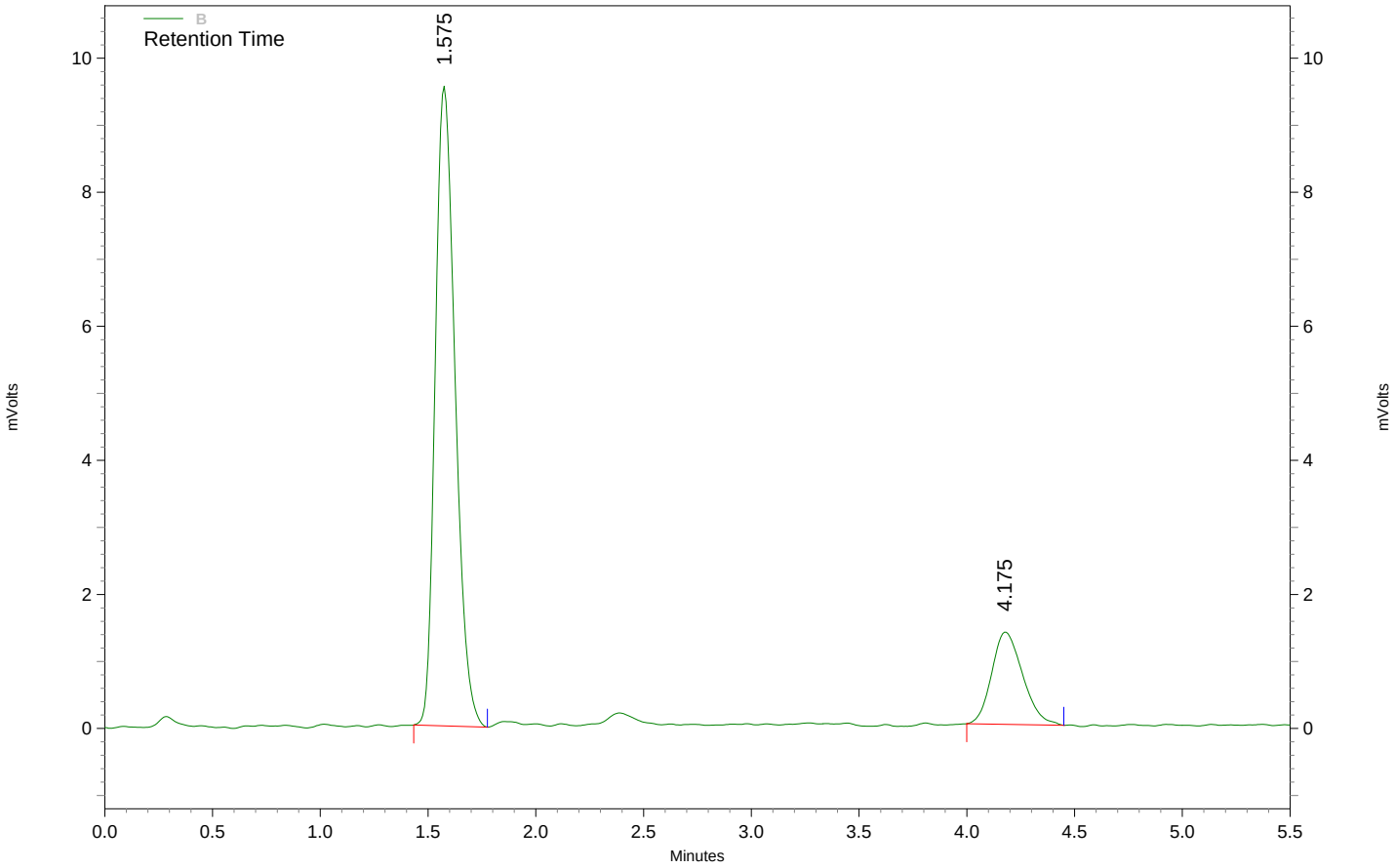
B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
NQ	0.500	0.510	1.906	20.000	**Passed**
12-DNB (SSTD)	100.000	102.048	2.048	20.000	**Passed**

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\NQ\121510NQic-primary\009.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121510NQic-primary.met
Sample ID: NQ ICV EXP 4138
Acquired: Dec 15, 2010 15:38:53
Data Summary: {Data Description}

RED
12/30/2010



B Results

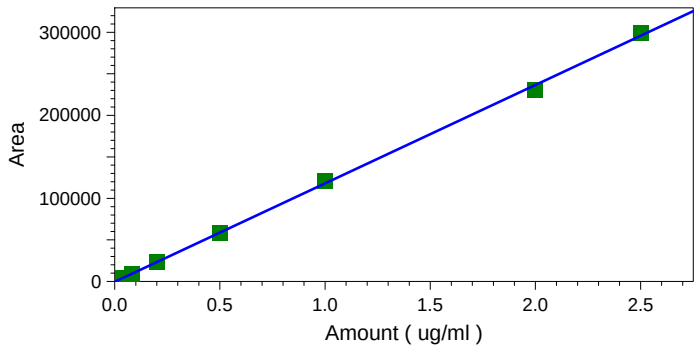
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.575	61410	**0.510**
12-DNB (SSTD)	4.175	13737	**102.048**

Calibration Report

Method:
C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
Print Time: Dec 23, 2010 15:01:31
User: red
Instrument: HPLC 2 (Offline)

NQ (B)
Average RF: 115359. RF StDev: 5238.10 RF %RSD: 4.54068
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 118555.x - 490.815
Goodness of fit (r^2): 0.999380

Peak: NQ -- ESTD -- B



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.04	0.08	0.2	0.5	1
Area	4334	8637	23800	58157	120522
RF	108350	107962.5	119000	116314	120522
Last Area					
Residual	-0.00069693	0.00300761	-0.0048911	0.00531033	-0.0207335
Rep StDev					
Rep %RSD					
Rep 1 Area	4334	8637	23800	58157	120522
Rep 1 User	red	red	red	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\002.dat	C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\003.dat	C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\004.dat	C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\005.dat	C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\006.dat
Rep 1 Sample ID	NQ pt. 1 EXP 4139	NQ pt. 2 EXP 4140	NQ pt. 3 EXP 4141	NQ pt. 4 EXP 4142	NQ pt. 5 EXP 4143
Rep 1 Calib. Time	Dec 16, 2010 21:15:41	Dec 16, 2010 20:55:46	Dec 16, 2010 20:55:54	Dec 16, 2010 20:56:02	Dec 16, 2010 20:56:11

	Level 6	Level 7
Amount	2	2.5

Calibration Report

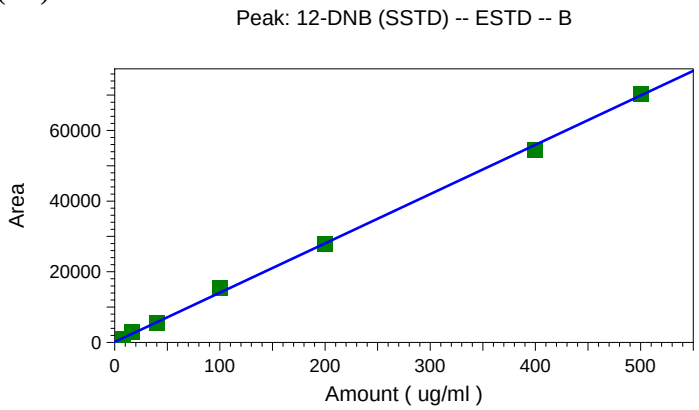
Method:
C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
Print Time: Dec 23, 2010 15:01:31
User: red
Instrument: HPLC 2 (Offline)

Area	231086	299559
RF	115543	119823.6
Last Area		
Residual	0.0466679	-0.0308964
Rep StDev		
Rep %RSD		
Rep 1 Area	231086	299559
Rep 1 User	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\007.dat	C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\008.dat
Rep 1 Sample ID	NQ pt. 6 EXP 4144	NQ pt. 7 EXP 4145
Rep 1 Calib. Time	Dec 16, 2010 21:15:30	Dec 16, 2010 21:21:46

Calibration Report

Method:
C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
Print Time: Dec 23, 2010 15:01:34
User: red
Instrument: HPLC 2 (Offline)

12-DNB (SSTD) (B)
Average RF: 145.355 RF StDev: 17.6221 RF %RSD: 12.1236
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 139.565x + 124.382
Goodness of fit (r^2): 0.999072



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	8	16	40	100	200
Area	1020	2906	5566	15262	27902
RF	127.5	181.625	139.15	152.62	139.51
Last Area Residual	1.58278	-3.93067	1.01008	-8.46305	0.969665
Rep StDev					
Rep %RSD					
Rep 1 Area	1020	2906	5566	15262	27902
Rep 1 User	red	red	red	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\NQ\121610 NQic-confirm \002.dat	C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\003.dat	C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\004.dat	C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\005.dat	C:\Instarch\Data\HPLC 2\NQ\121610 NQic-confirm\006.dat
Rep 1 Sample ID	NQ pt. 1 EXP 4139	NQ pt. 2 EXP 4140	NQ pt. 3 EXP 4141	NQ pt. 4 EXP 4142	NQ pt. 5 EXP 4143
Rep 1 Calib. Time	Dec 16, 2010 21:15:41	Dec 16, 2010 20:55:46	Dec 16, 2010 20:55:54	Dec 16, 2010 20:56:02	Dec 16, 2010 20:56:11

	Level 6	Level 7
Amount	400	500

Calibration Report

Method:
C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
Print Time: Dec 23, 2010 15:01:34
User: red
Instrument: HPLC 2 (Offline)

Area	54497	70417
RF	136.2425	140.834
Last Area		
Residual	10.4129	-3.65597
Rep StDev		
Rep %RSD		
Rep 1 Area	54497	70417
Rep 1 User	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\007.dat	C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\008.dat
Rep 1 Sample ID	NQ pt. 6 EXP 4144	NQ pt. 7 EXP 4145
Rep 1 Calib. Time	Dec 16, 2010 21:15:30	Dec 16, 2010 21:21:46

QC Check Standard Report

Sequence : C:\Instarch\Sequence\HPLC 2\NQ\121610NQic-confirm.seq
User : red
Printed : Dec 23, 2010 14:59:48

RED
12/30/2010

File	Sample ID	Acquired
C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\002.dat	NQ pt. 1 EXP 4139	Dec 23, 2010 14:59:48

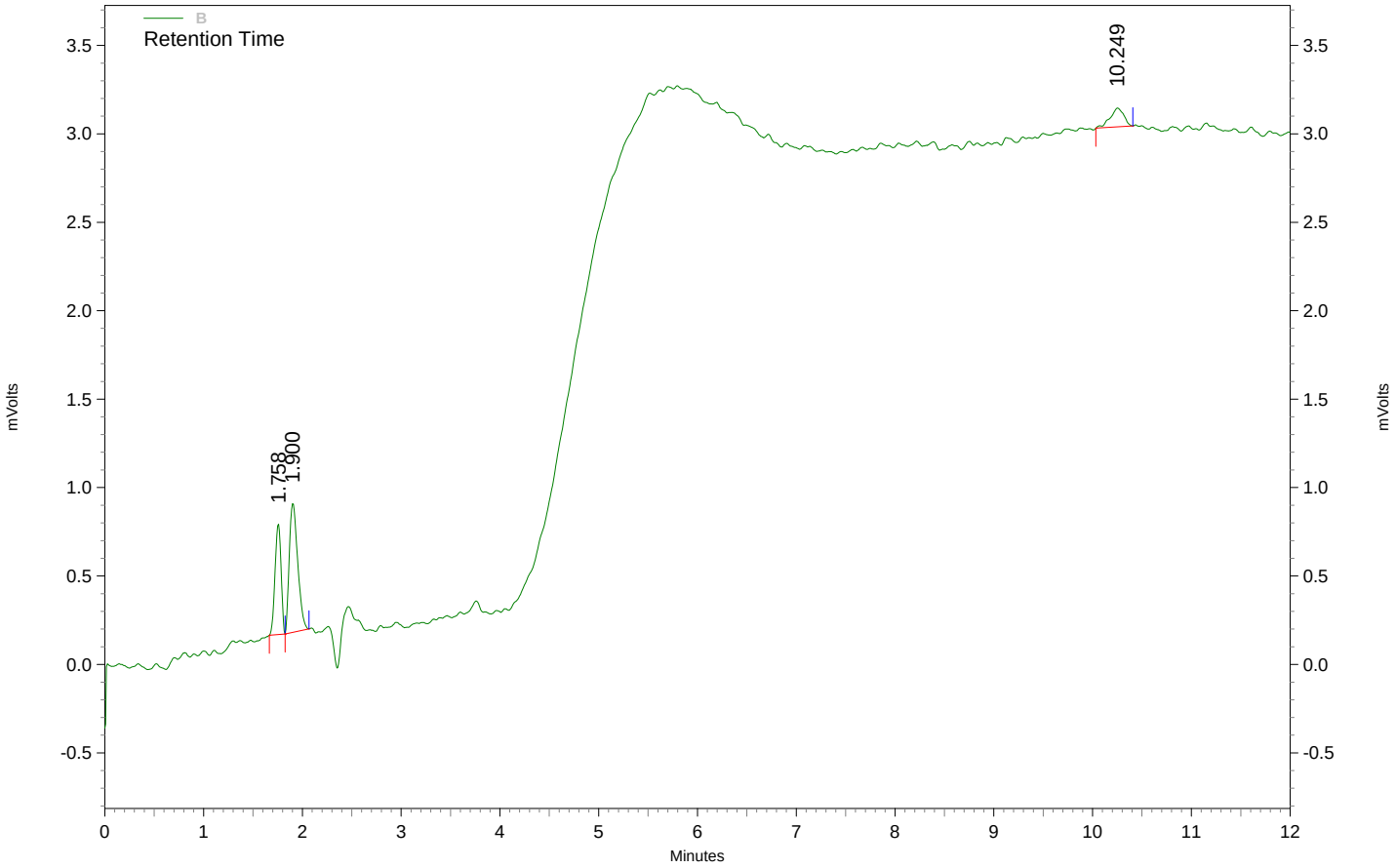
B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
NQ	0.040	0.041	1.742	20.000	Passed
12-DNB (SSTD)	8.000	6.417	19.785	20.000	Passed

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\002.dat
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
User ID: red
Sample ID: NQ pt. 1 EXP 4139
Acquired: Dec 16, 2010 19:43:37
Data summary: {Data Description}



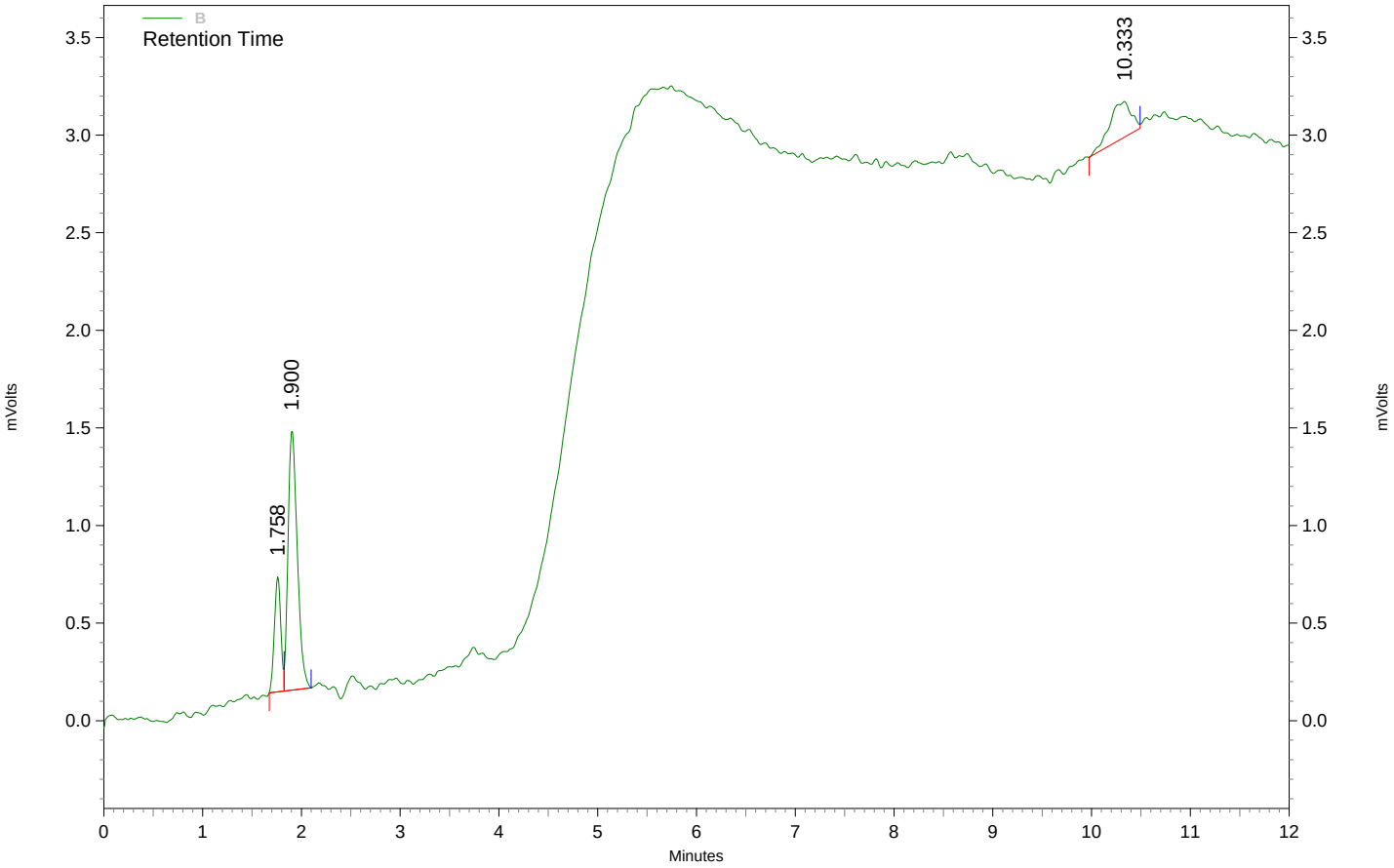
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.900	4334	**0.041**
12-DNB (SSTD)	10.249	1020	**6.417**

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\003.dat
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
User ID: red
Sample ID: NQ pt. 2 EXP 4140
Acquired: Dec 16, 2010 19:57:54
Data summary: {Data Description}



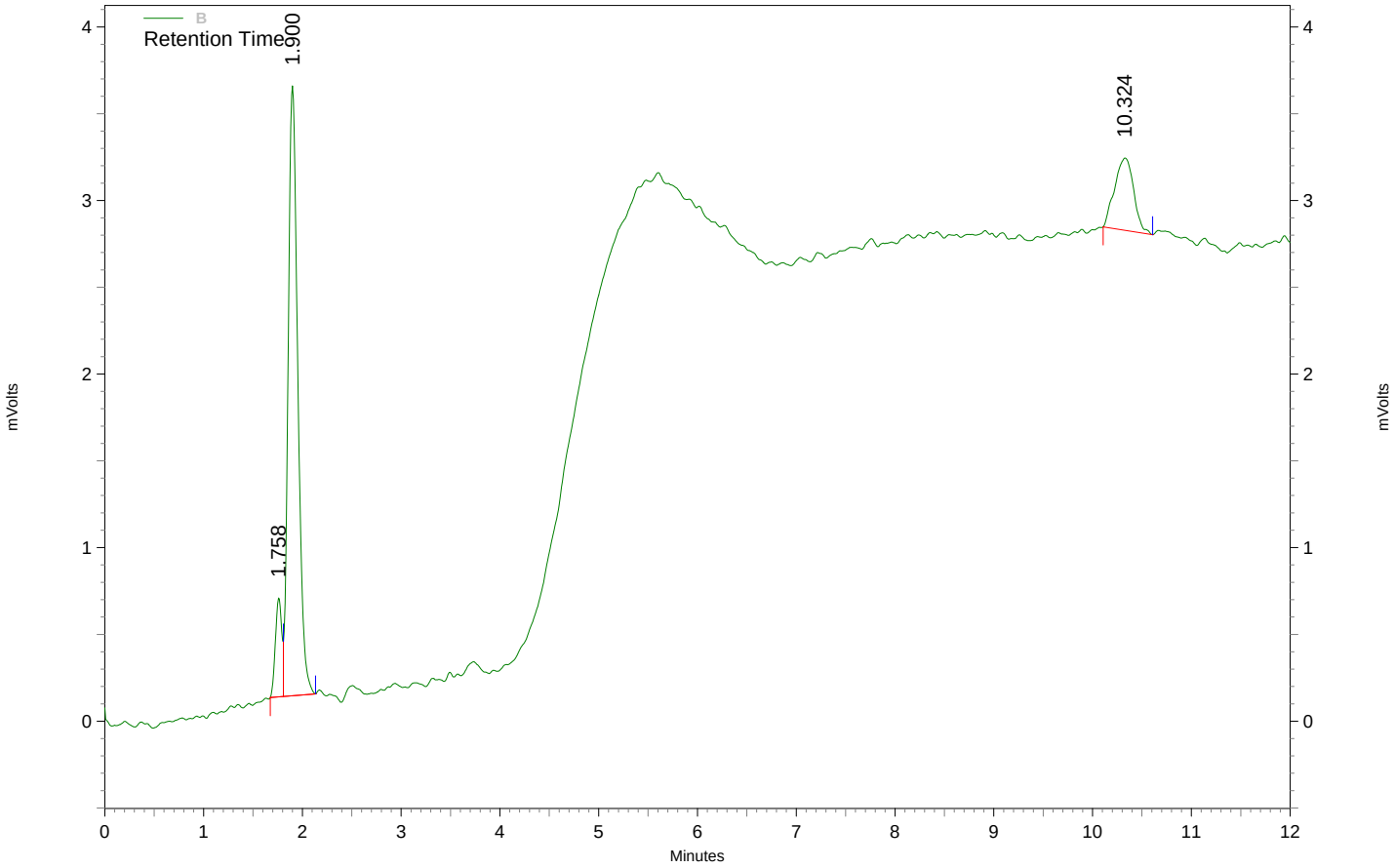
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.900	8637	**0.080 CAL**
12-DNB (SSTD)	10.333	2906	**16.000 CAL**

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\004.dat
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
User ID: red
Sample ID: NQ pt. 3 EXP 4141
Acquired: Dec 16, 2010 20:12:11
Data summary: {Data Description}



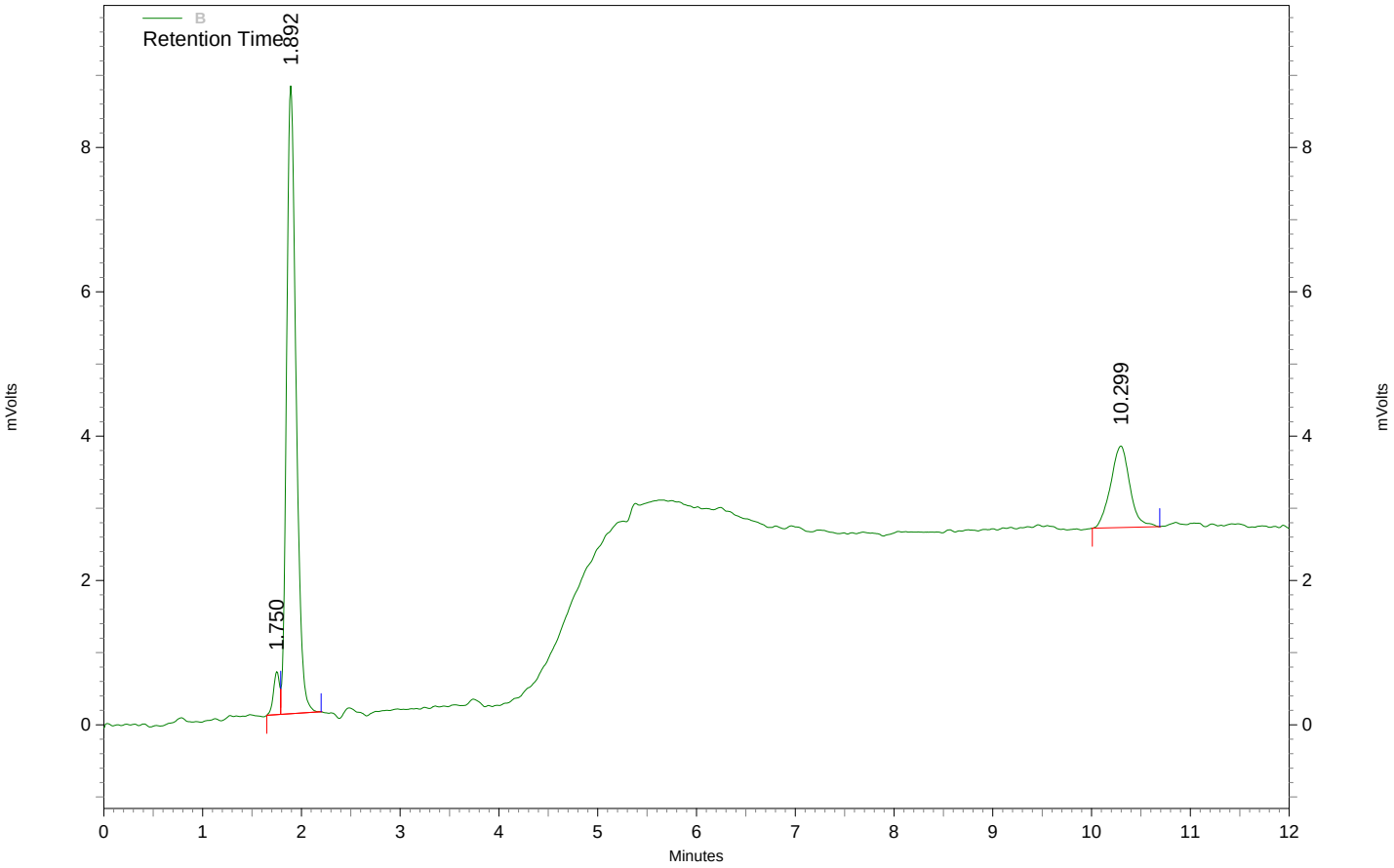
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.900	23800	**0.200 CAL**
12-DNB (SSTD)	10.324	5566	**40.000 CAL**

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\005.dat
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
User ID: red
Sample ID: NQ pt. 4 EXP 4142
Acquired: Dec 16, 2010 20:26:29
Data summary: {Data Description}



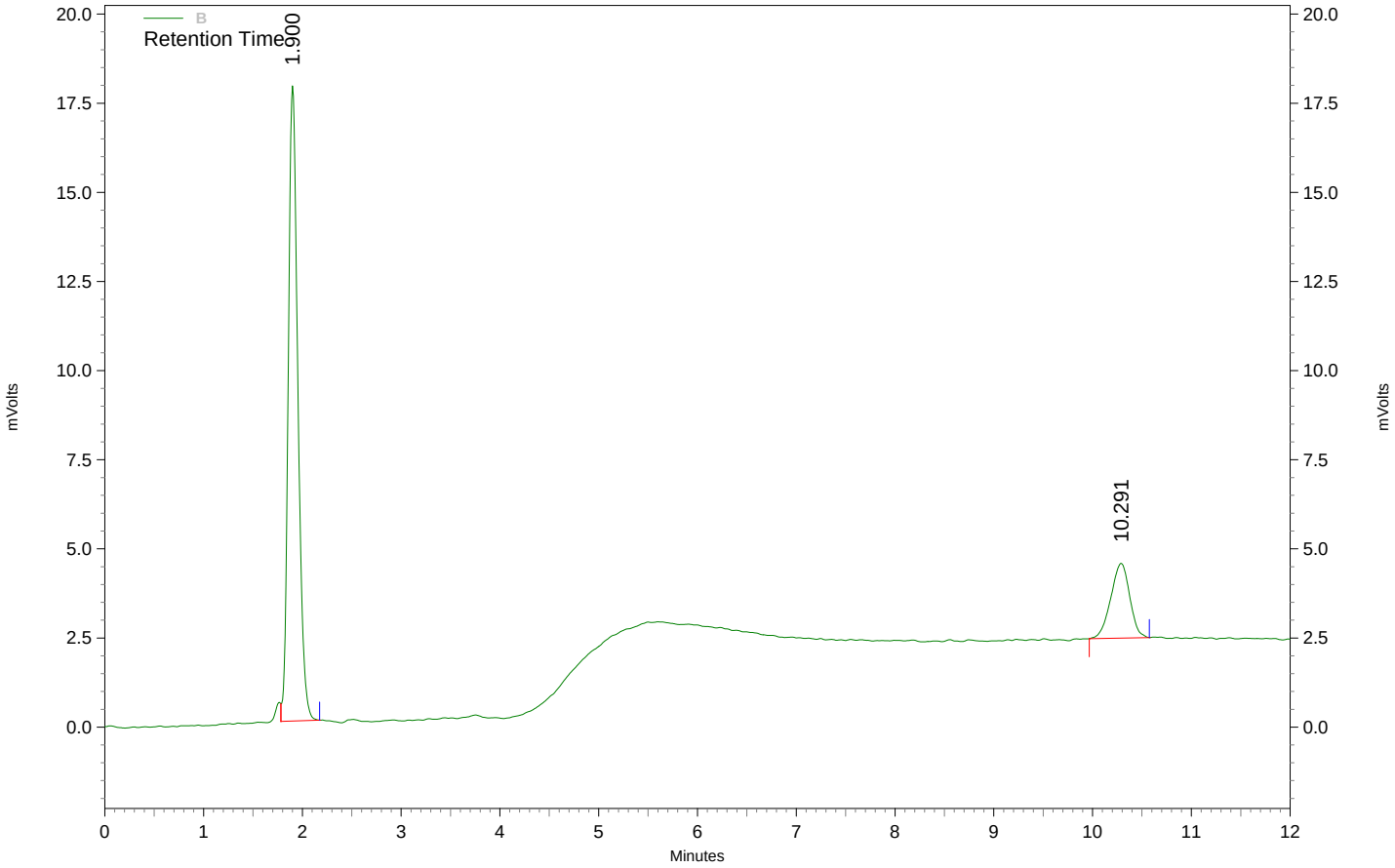
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.892	58157	**0.500 CAL**
12-DNB (SSTD)	10.299	15262	**100.000 CAL**

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\006.dat
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
User ID: red
Sample ID: NQ pt. 5 EXP 4143
Acquired: Dec 16, 2010 20:40:46
Data summary: {Data Description}



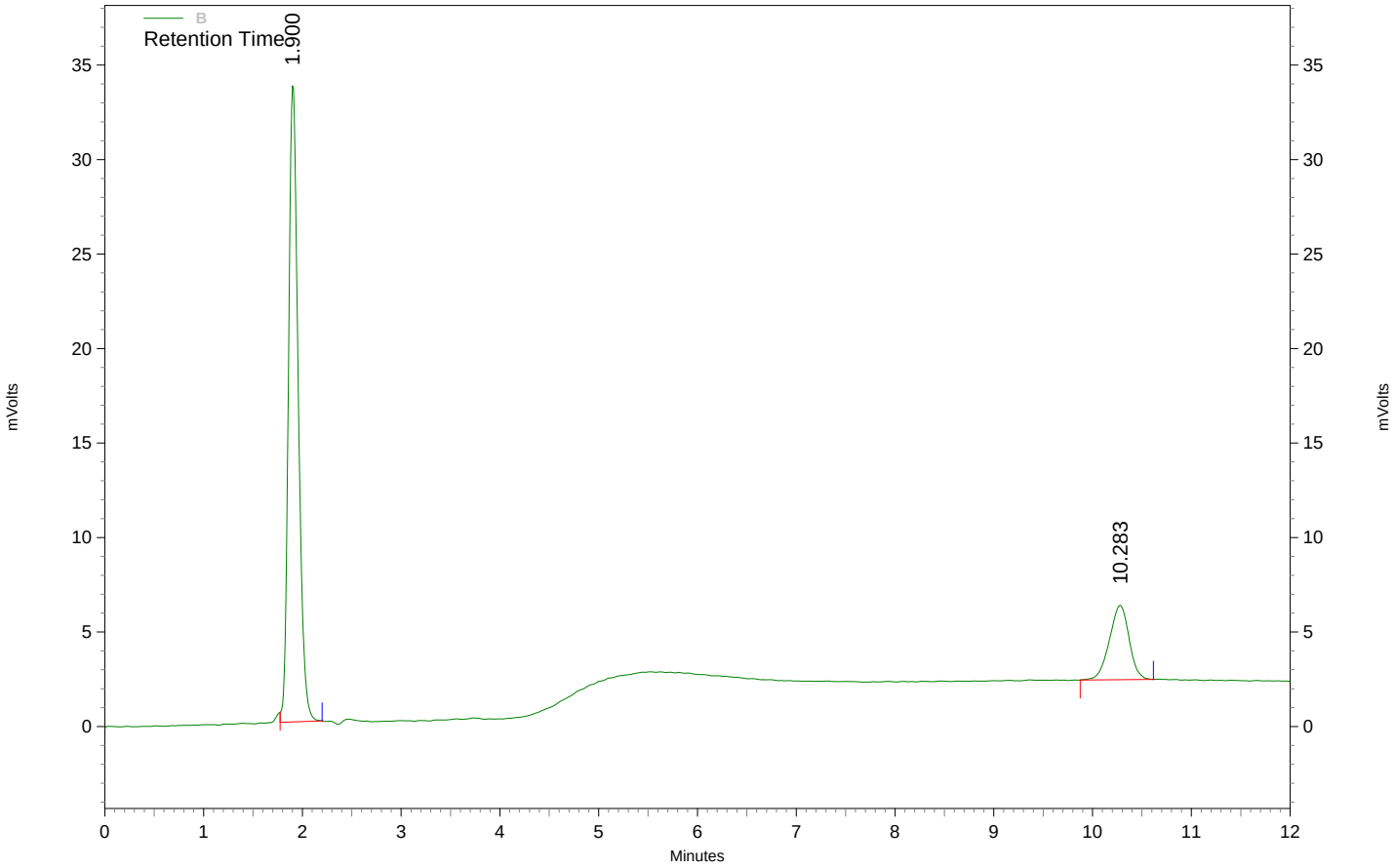
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.900	120522	**1.000 CAL**
12-DNB (SSTD)	10.291	27902	**200.000 CAL**

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\007.dat
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
User ID: red
Sample ID: NQ pt. 6 EXP 4144
Acquired: Dec 16, 2010 20:55:04
Data summary: {Data Description}



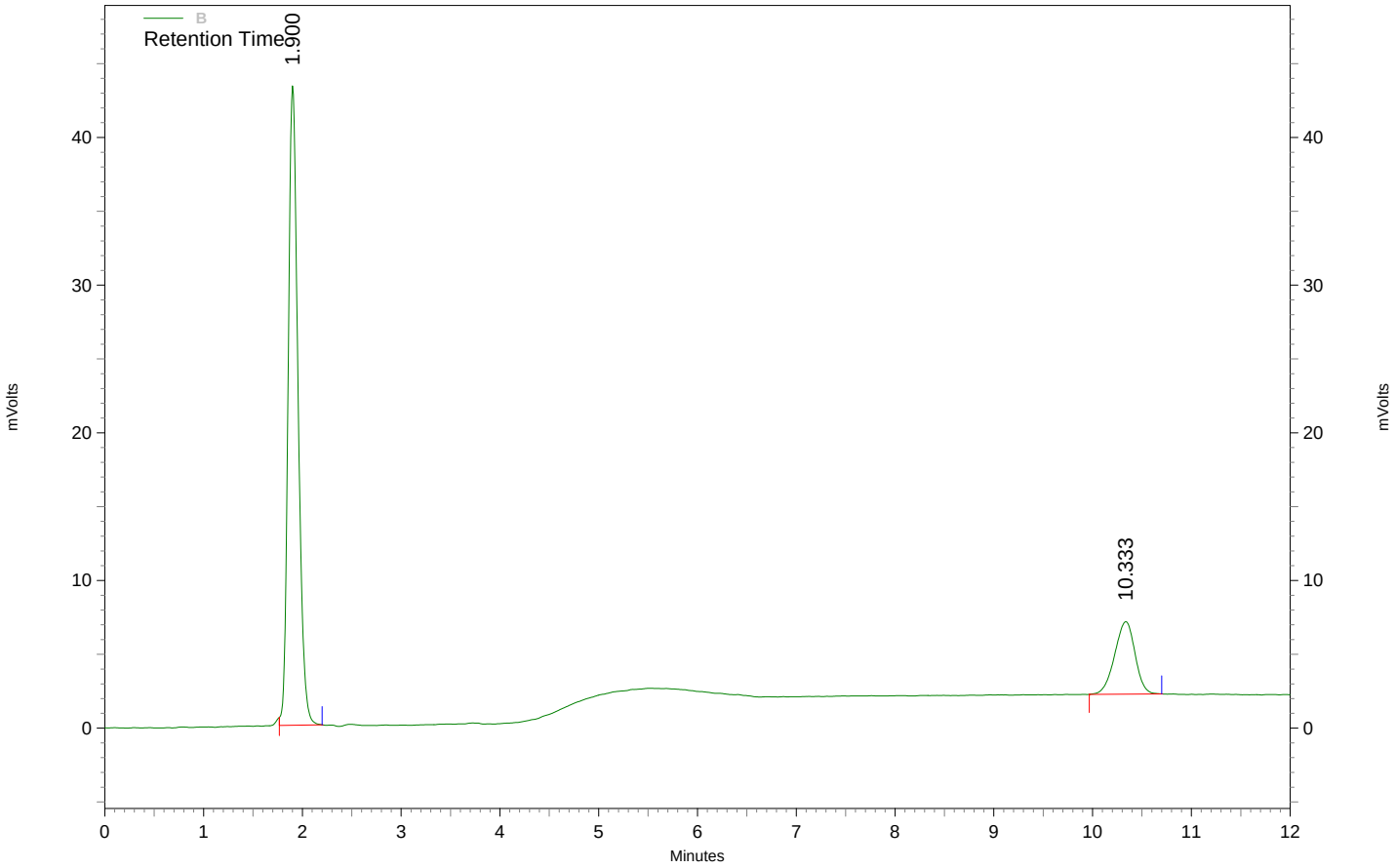
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.900	231086	**2.000 CAL**
12-DNB (SSTD)	10.283	54497	**400.000 CAL**

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\008.dat
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
User ID: red
Sample ID: NQ pt. 7 EXP 4145
Acquired: Dec 16, 2010 21:09:21
Data summary: {Data Description}



B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.900	299559	**2.500 CAL**
12-DNB (SSTD)	10.333	70417	**500.000 CAL**

QC Check Standard Report

Sequence : C:\Instarch\Sequence\HPLC 2\NQ\121610NQic-confirm.seq
User : red
Printed : Dec 23, 2010 15:00:08

RED
12/30/2010

File	Sample ID	Acquired
C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\009.dat	NQ ICV EXP 4146	Dec 23, 2010 15:00:08

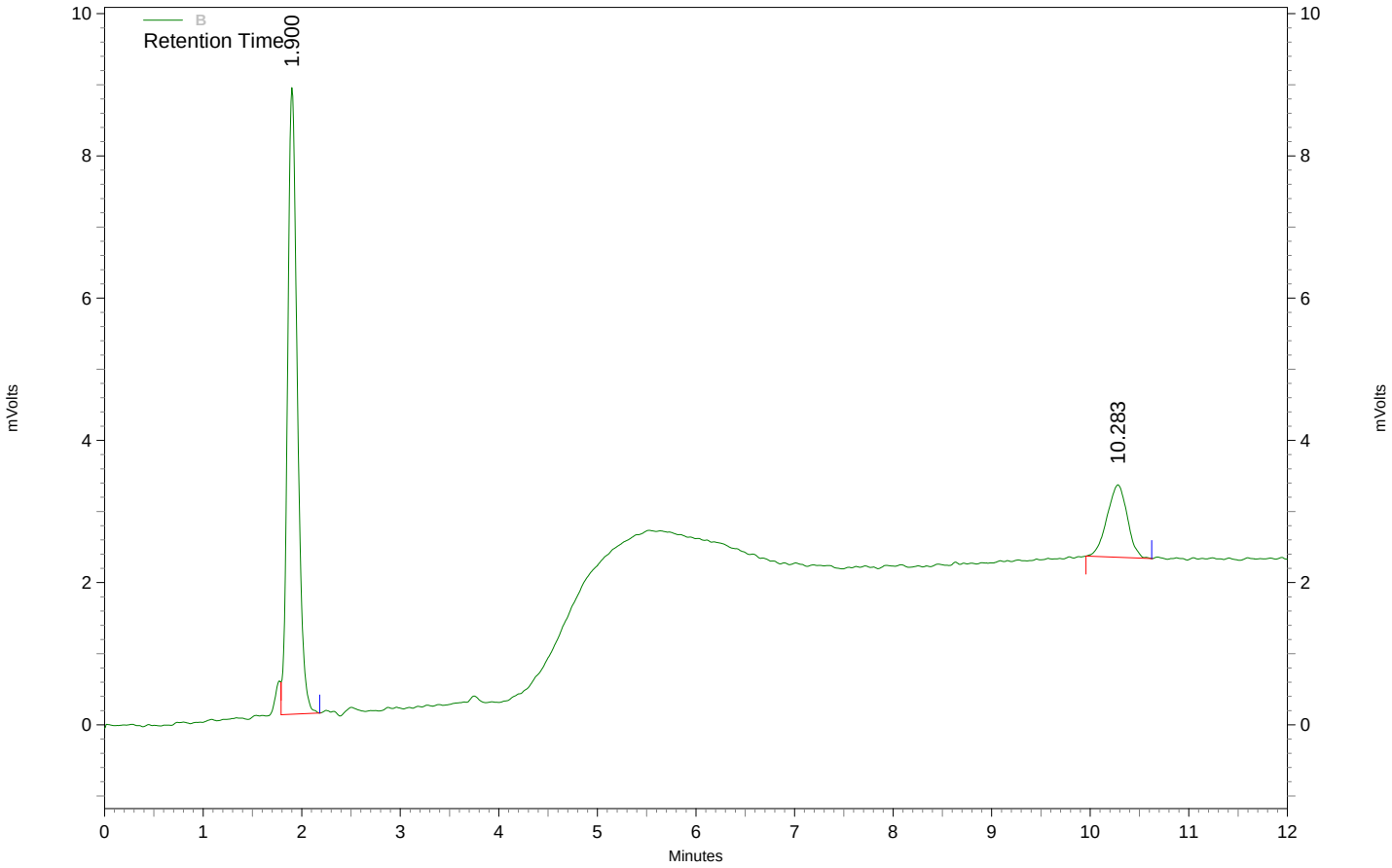
B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
NQ	0.500	0.516	3.267	20.000	**Passed**
12-DNB (SSTD)	100.000	103.082	3.082	20.000	**Passed**

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\009.dat
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
User ID: red
Sample ID: NQ ICV EXP 4146
Acquired: Dec 16, 2010 21:23:39
Data summary: {Data Description}



B Results

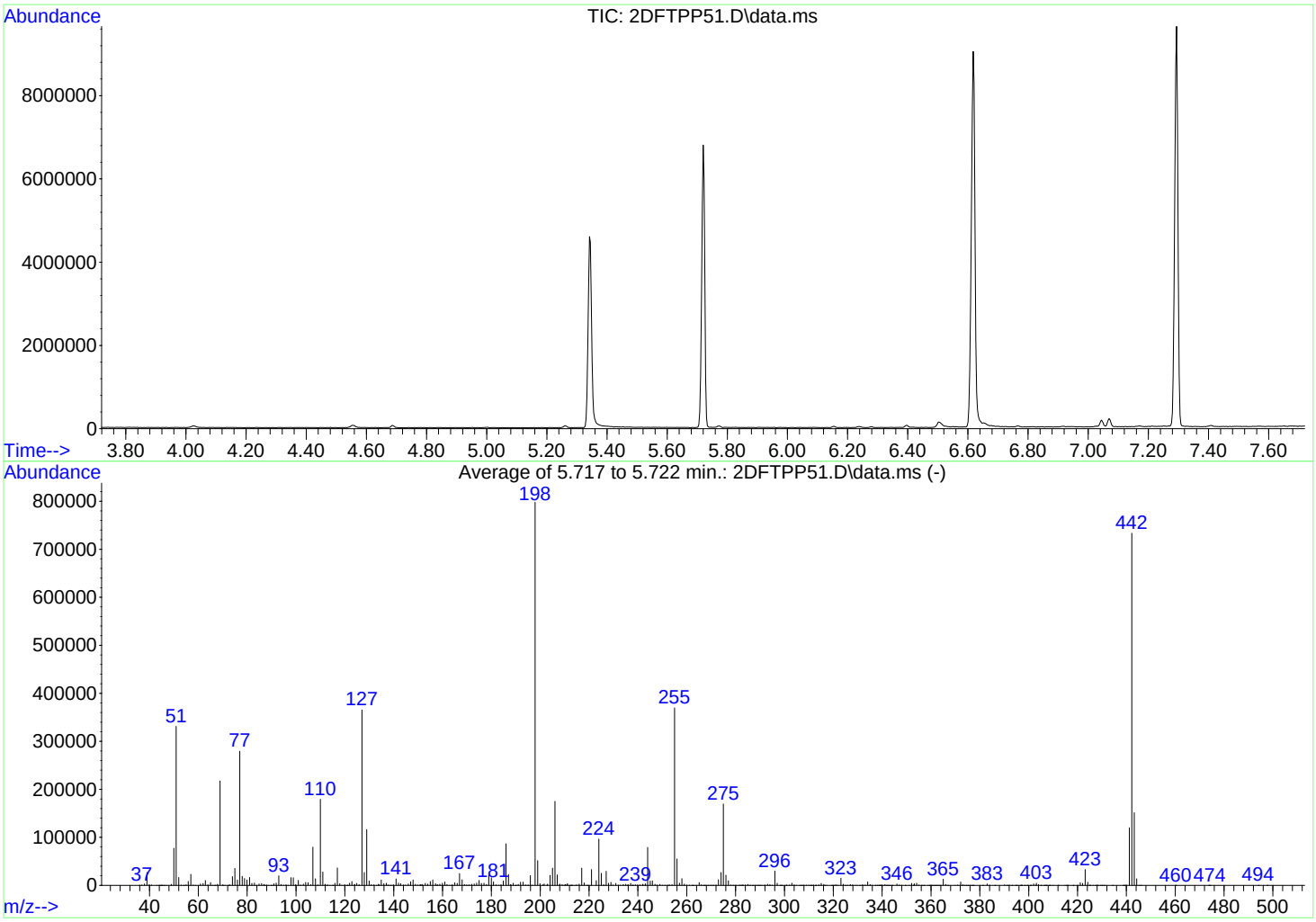
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.900	60723	**0.516**
12-DNB (SSTD)	10.283	14511	**103.082**

DFTPP

Data File : C:\INSTARCH\DATA\2S120210B\2DFTPP51.D Vial: 1
Acq On : 2 Dec 2010 11:11 Operator: RPN
Sample : DFTPP SVMS4646 Inst : SVMS2
Misc : SVMS2,25 ng DFTPP Multiplr: 1.00
Integrator: RTE

RPN
12/02/10

Method : C:\INSTARCH\METHOD\2S120210.M
Title : Method for 8270 analysis for instrument SVMS2
Last Update : Thu Dec 02 14:33:20 2010



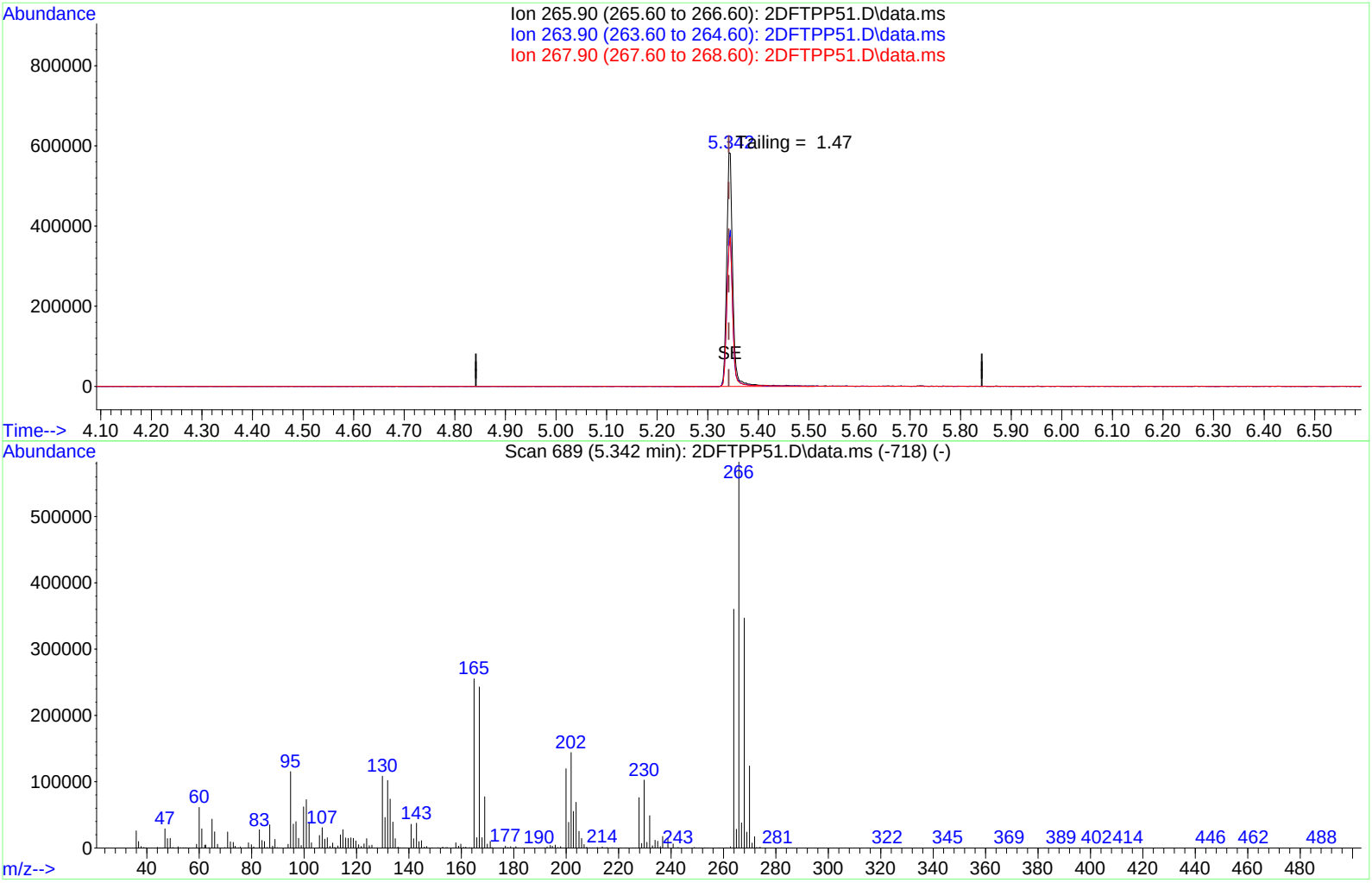
AutoFind: Scans 821, 822, 823; Background Corrected with Scan 813

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	41.5	331346	PASS
68	69	0.00	2	1.1	2407	PASS
69	198	0.00	100	27.3	217600	PASS
70	69	0.00	2	0.6	1201	PASS
127	198	40	60	45.8	365461	PASS
197	198	0.00	1	0.1	711	PASS
198	198	100	100	100.0	797888	PASS
199	198	5	9	6.5	51626	PASS
275	198	10	30	21.3	169621	PASS
365	198	1	100	1.6	12870	PASS
441	443	0.01	100	79.3	119989	PASS
442	198	40	100	91.9	733397	PASS
443	442	17	23	20.6	151325	PASS

Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\2S120210B\2DFTPP51.D Vial: 1
Acq On : 2 Dec 2010 11:11 Operator: RPN
Sample : DFTPP SVMS4646 Inst : SVMS2
Misc : SVMS2,25 ng DFTPP Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 17:07:21 2010

Quant Method : C:\INSTARCH\METHOD\2DFTPP.M
Quant Title : DFTPP TUNE Method
QLast Update : Thu Dec 02 17:07:17 2010
Response via : Initial Calibration
DataAcq Meth:2DFTPP.M



TIC: 2DFTPP51.D\data.ms

(1) Pentachlorophenol

5.342min (0.000) 40.66 ng

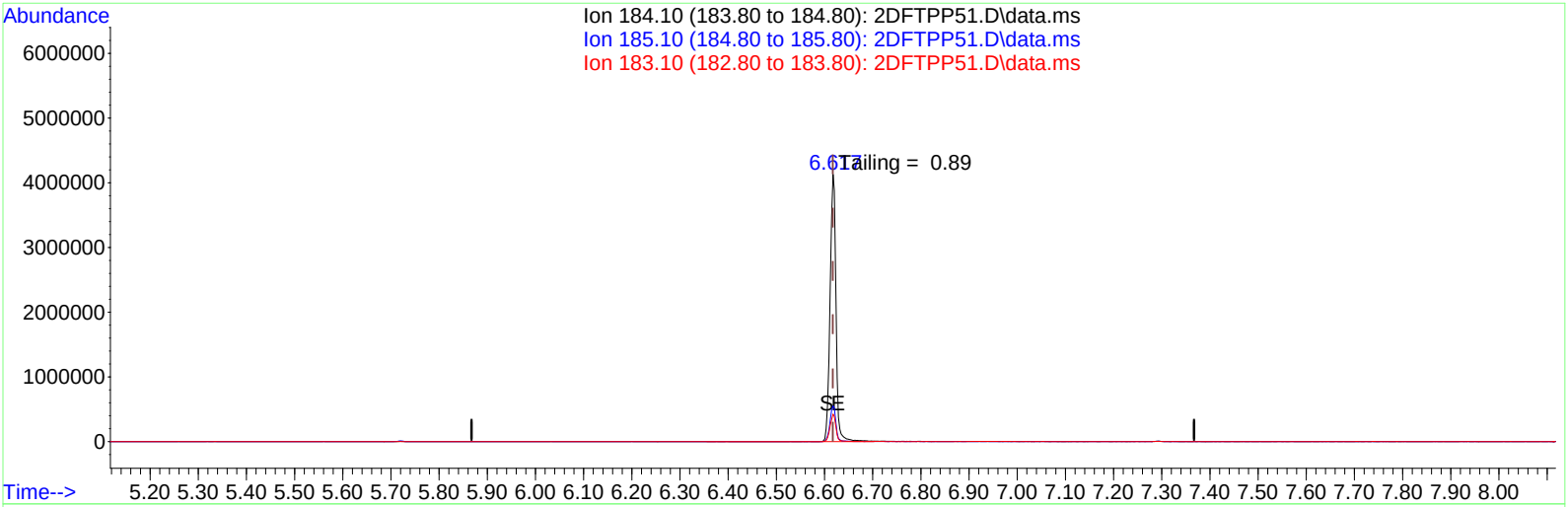
response 480585

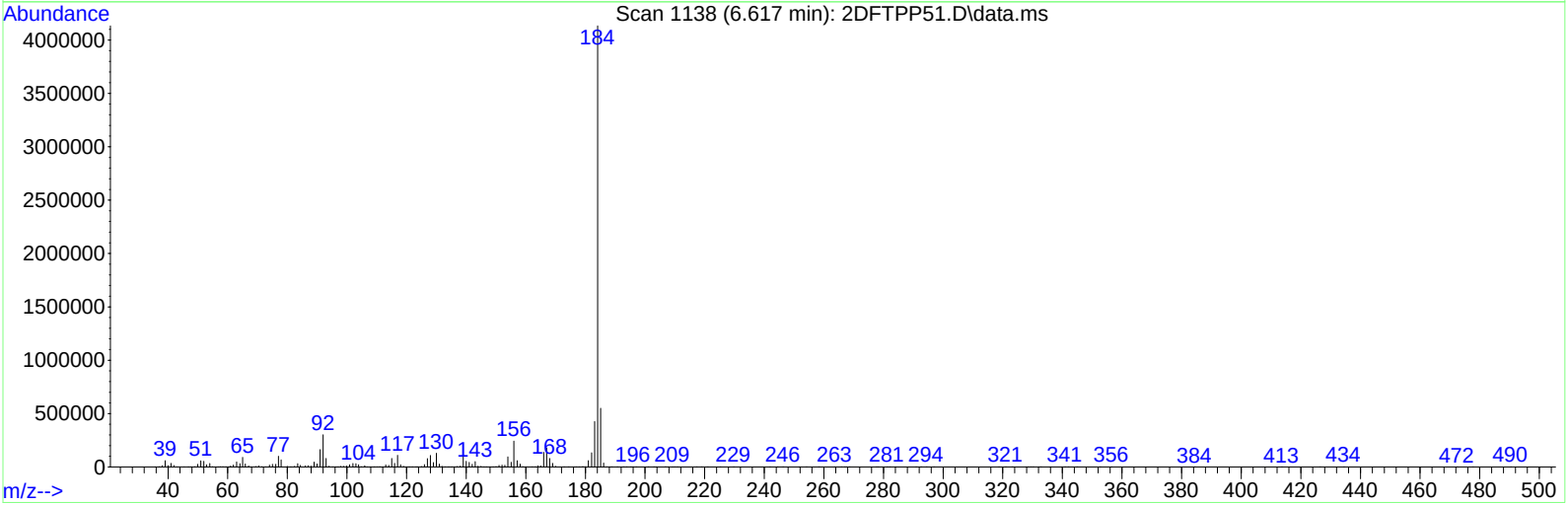
Ion	Exp%	Act%
265.90	100	100
263.90	61.70	61.89
267.90	60.80	59.45
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\2S120210B\2DFTPP51.D Vial: 1
Acq On : 2 Dec 2010 11:11 Operator: RPN
Sample : DFTPP SVMS4646 Inst : SVMS2
Misc : SVMS2,25 ng DFTPP Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 17:07:21 2010

Quant Method : C:\INSTARCH\METHOD\2DFTPP.M
Quant Title : DFTPP TUNE Method
QLast Update : Thu Dec 02 17:07:17 2010
Response via : Initial Calibration
DataAcq Meth:2DFTPP.M





TIC: 2DFTPP51.D\data.ms

(3) Benzidine

6.617min (0.000) 58.83 ng

response 3524555

Ion	Exp%	Act%
184.10	100	100
185.10	14.10	13.69
183.10	10.30	10.28
0.00	0.00	0.00

Data File	: 2DFTPP51.D	Vial Number	: 1
Data File Path	: C:\INSTARCH\DATA\2S120210B\	Operator	: RPN
Date Acquired	: 12/2/2010 11:11	Instrument Name:	SVMS2
Sample Name	: DFTPP SVMS4646	Sample Multiplier:	1
Misc Info	: SVMS2,25 ng DFTPP		

Quant Method	: C:\INSTARCH\METHOD\2DFTPP.M
Calibration Title	: DFTPP TUNE Method
Last Update	: Thu Dec 02 17:07:17 2010

Compound	R.T.	QIon	Response
1) Pentachlorophenol	5.34	266	480585
2) DFTPP	5.72	198	620994
3) Benzidine	6.62	184	3524555
4) DDE	6.77	246	2165
5) DDD	7.07	235	52011
6) DDT	7.29	235	1595160

DDT %Degradation

$$\frac{\text{DDD + DDE}}{\text{DDD + DDE + DDT}} \times 100\% = 3.28\ \%$$

Response Factor Report SVMS2

Method Path : C:\INSTARCH\METHOD\
Method File : 2S120210.M
Title : Method for 8270 analysis for instrument SVMS2
Last Update : Thu Dec 02 14:33:20 2010
Response Via : Initial Calibration

Calibration Files
1 =2ICAL1.D 5 =2ICAL2.D 10 =2ICAL3.D 20 =2ICAL4.D 30 =2ICAL5.D 40 =2ICAL6.D 50 =2ICAL7.D

		Compound	1	5	10	20	30	40	50	Avg	%RSD
1)	I	14Diclbenzd4	----------ISTD----------								
2)	TM	Ntrsdimeth	0.669	0.672	0.707	0.721	0.752	0.732	0.718	0.710	4.28
3)	TM	Pyridine	1.159	1.140	1.234	1.297	1.337	1.340	1.325	1.262	6.73
4)	S	SURR2Flphenol	0.452	0.469	0.502	0.509	0.527	0.519	0.507	0.498	5.49
5)	TM	Aniline	1.817	1.799	1.946	1.963	2.017	2.007	1.945	1.928	4.48
6)	TM	bis2Clethletr	1.142	1.173	1.193	1.213	1.238	1.229	1.189	1.197	2.78
7)	S	SURRPhenol-d5	0.552	0.582	0.597	0.603	0.625	0.623	0.603	0.598	4.17
8)	CTM	Phenol	1.330	1.390	1.477	1.514	1.555	1.546	1.507	1.474	5.68
9)	TM	2-Cl-phenol	1.325	1.253	1.340	1.340	1.383	1.407	1.351	1.343	3.62
10)	TM	13Diclbenz	1.527	1.468	1.578	1.557	1.605	1.594	1.529	1.551	3.06
11)	CTM	14Diclbenz	1.618	1.516	1.568	1.580	1.625	1.588	1.535	1.576	2.54
12)	TM	12Diclbenz	1.478	1.435	1.538	1.490	1.541	1.528	1.456	1.495	2.79
13)	TM	Benzyl alcoho	0.189	0.427	0.609	0.705	0.760	0.776	0.763	0.604	36.58
14)	TM	bis2clispreth	2.289	2.175	2.254	2.267	2.322	2.356	2.290	2.279	2.50
15)	TM	2Methylphenol	1.076	1.082	1.102	1.138	1.166	1.185	1.141	1.127	3.71
16)	TM	Ntrspyrrol	0.498	0.573	0.594	0.630	0.645	0.628	0.603	0.596	8.35
17)	TM	Acetophenone	1.637	1.615	1.698	1.701	1.744	1.718	1.662	1.682	2.73
18)	TM	Hexaclethane	0.535	0.493	0.514	0.536	0.550	0.536	0.515	0.526	3.64
19)	PTM	N-Ntrsdinprop	0.711	0.718	0.772	0.758	0.786	0.773	0.752	0.753	3.77
20)	TM	3&4Methylphenol	0.943	1.135	1.188	1.157	1.175	1.152	1.120	1.124	7.40
21)	I	Naphthalened8	----------ISTD----------								
22)	S	SURRNitrbenzened5	0.041	0.047	0.050	0.049	0.051	0.051	0.049	0.048	7.17
23)	TM	Nitrobenzene	0.224	0.238	0.247	0.255	0.254	0.257	0.251	0.247	4.78
24)	TM	Isophorone	0.481	0.517	0.555	0.554	0.572	0.574	0.556	0.544	6.14
25)	CTM	2-Nitrophenol	0.151	0.184	0.192	0.191	0.193	0.193	0.187	0.184	8.11
26)	TM	24Dimthpheno	0.267	0.263	0.280	0.287	0.290	0.289	0.281	0.279	3.85
27)	TM	bis2clethoxym	0.378	0.364	0.381	0.377	0.381	0.378	0.367	0.375	1.77
28)	CTM	24Diclphenol	0.213	0.252	0.262	0.271	0.281	0.278	0.269	0.261	8.97
29)	TM	124Triclbenz	0.328	0.308	0.327	0.327	0.333	0.326	0.311	0.323	2.89
30)	TM	Benzoic acid		0.095	0.151	0.184	0.200	0.211	0.206	0.175	25.63
31)	TM	Naphthalene	1.002	0.992	1.046	1.033	1.045	1.038	0.990	1.021	2.45
32)	TM	4-Cl-aniline	0.354	0.369	0.395	0.394	0.401	0.391	0.376	0.383	4.47
33)	TM	26Diclphenol	0.213	0.236	0.246	0.249	0.244	0.238	0.226	0.236	5.44
34)	TM	Hexaclprop	0.144	0.154	0.165	0.175	0.178	0.177	0.169	0.166	7.67
35)	CTM	Hexaclbutdien	0.152	0.147	0.153	0.153	0.156	0.155	0.146	0.152	2.55
36)	CTM	4Cl3methylphe	0.214	0.235	0.255	0.262	0.261	0.265	0.255	0.250	7.35
37)	TM	2Methylnaphth	0.564	0.555	0.587	0.585	0.584	0.571	0.542	0.570	2.98
38)	TM	1Methylnaphth	0.568	0.579	0.621	0.607	0.607	0.593	0.564	0.591	3.66
39)	I	Acenaphthened10	----------ISTD----------								
40)	PTM	Hxclcycpentdi	0.216	0.281	0.318	0.331	0.347	0.344	0.333	0.310	15.18
41)	TM	1245Tetrclbenz	0.529	0.519	0.546	0.535	0.553	0.535	0.511	0.533	2.73
42)	CTM	246Triclpheno	0.297	0.334	0.359	0.363	0.376	0.369	0.359	0.351	7.78

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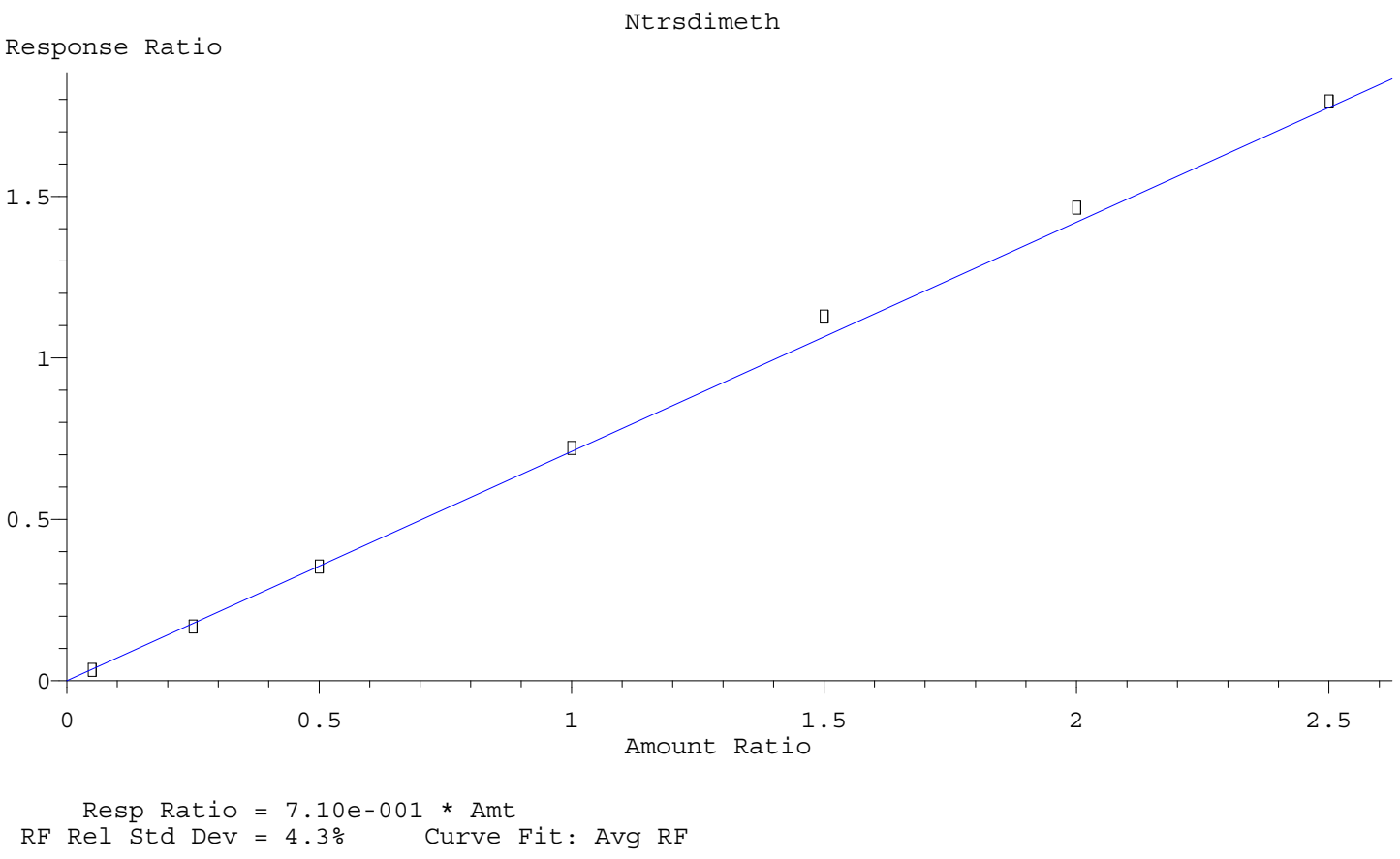
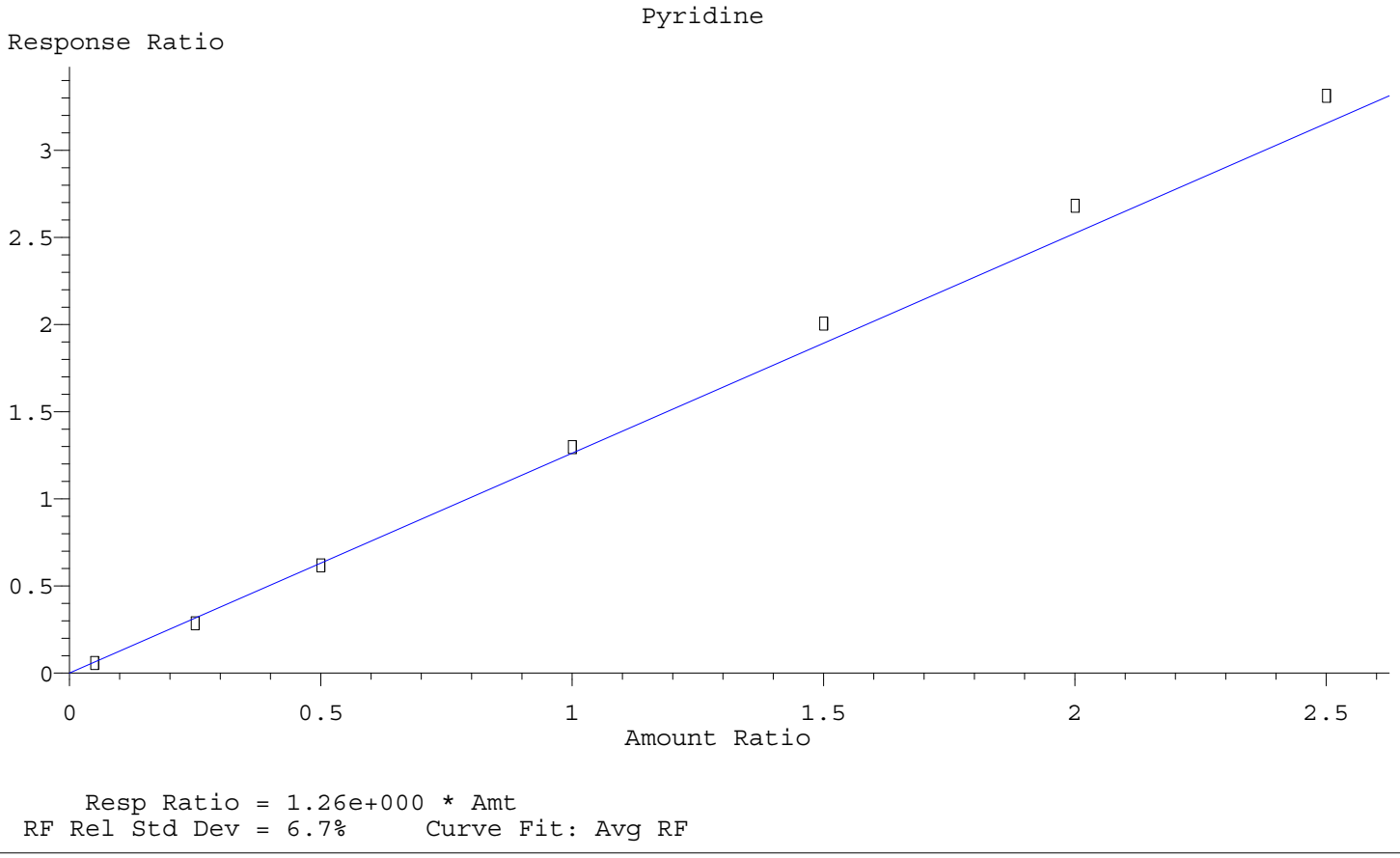
Method Path : C:\INSTARCH\METHOD\
Method File : 2S120210.M

43)	TM	245Triclpheno	0.332	0.342	0.374	0.385	0.400	0.391	0.384	0.373	6.86
44)	S	SURR2Flbiphenyl	0.252	0.258	0.271	0.266	0.270	0.263	0.251	0.262	3.16
45)	TM	2Clnaphthalen	1.116	1.101	1.194	1.181	1.199	1.169	1.128	1.155	3.45
46)	TM	2Nitroaniline	0.230	0.259	0.279	0.280	0.285	0.281	0.274	0.270	7.15
47)	TM	Acnaphthylene	1.990	1.950	2.080	2.006	2.010	1.955	1.865	1.979	3.36
48)	TM	Dimethylphtha	1.291	1.318	1.404	1.384	1.411	1.378	1.318	1.358	3.51
49)	TM	26Dinitrotolu	0.251	0.293	0.307	0.302	0.309	0.303	0.291	0.294	6.84
50)	CTM	Acenaphthene	1.251	1.232	1.292	1.257	1.279	1.230	1.170	1.244	3.21
51)	TM	3Nitroaniline	0.275	0.311	0.293	0.317	0.338	0.337	0.329	0.314	7.43
52)	PTM	24Dinitphenol		0.108	0.146	0.169	0.185	0.190	0.185	0.164	19.34
53)	TM	Dibenzofuran	1.676	1.618	1.716	1.642	1.644	1.566	1.473	1.619	4.92
54)	TM	24Dinitrotolu	0.309	0.365	0.389	0.387	0.384	0.364	0.347	0.364	7.81
55)	PTM	4-Nitrophenol		0.091	0.102	0.099	0.106	0.103	0.103	0.101	4.99
56)	TM	2,3,5,6-Tetrac...	0.170	0.243	0.271	0.289	0.288	0.290	0.282	0.262	16.68
57)	TM	2,3,4,6-Tetrac...	0.190	0.265	0.285	0.295	0.307	0.301	0.293	0.277	14.59
58)	TM	Fluorene	1.429	1.318	1.369	1.295	1.285	1.255	1.188	1.306	5.95
59)	TM	4Clphlphlethr	0.595	0.583	0.622	0.586	0.593	0.559	0.527	0.581	5.18
60)	TM	Diethylphthal	1.303	1.355	1.432	1.389	1.415	1.369	1.331	1.370	3.32
61)	TM	4Nitroaniline	0.290	0.323	0.314	0.311	0.302	0.322	0.297	0.308	4.10
62)	S	SURR246Tribrphenl	0.050	0.057	0.058	0.064	0.065	0.065	0.064	0.060	9.60
63)	I	Phenanthrd10	----------ISTD----------								
64)	TM	46Dinit2mylph		0.117	0.139	0.148	0.154	0.157	0.155	0.145	10.49
65)	CTM	Ntrsdiphlam&Di...	0.590	0.588	0.630	0.596	0.599	0.589	0.568	0.594	3.13
66)	TM	Azobenz&12Diph...	0.221	0.228	0.241	0.227	0.224	0.220	0.210	0.224	4.16
67)	TM	4Brphlphlethr	0.202	0.210	0.226	0.219	0.222	0.223	0.218	0.217	3.97
68)	TM	Hexaclbenzene	0.217	0.220	0.236	0.225	0.229	0.231	0.219	0.225	3.10
69)	CTM	Pentaclphenol		0.064	0.097	0.108	0.120	0.125	0.125	0.107	21.86#
70)	TM	Phenanthrene	1.049	1.031	1.098	1.051	1.088	1.079	1.027	1.060	2.66
71)	TM	Anthracene	1.044	1.049	1.106	1.069	1.112	1.109	1.036	1.075	3.11
72)	TM	Carbazole	0.904	0.895	0.941	0.900	0.917	0.922	0.898	0.911	1.83
73)	TM	Dinbtylphthal	1.128	1.183	1.281	1.267	1.318	1.296	1.136	1.230	6.43
74)	CTM	Fluoranthene	0.991	0.999	1.079	1.084	1.119	1.119	1.101	1.070	5.01
75)	I	Chrysene-d12	----------ISTD----------								
76)	TM	Benzidine	0.441	0.306	0.287	0.283	0.329	0.348	0.357	0.336	16.20
77)	TM	Pyrene	1.162	1.139	1.203	1.179	1.224	1.224	1.217	1.193	2.78
78)	S	SURRTerphenyl-d14	0.141	0.138	0.148	0.145	0.150	0.147	0.147	0.145	2.87
79)	TM	Btylbzylphth	0.506	0.544	0.608	0.590	0.610	0.609	0.592	0.580	6.90
80)	TM	33Diclbnzidin	0.339	0.256	0.223	0.226	0.236	0.249	0.255	0.255	15.45
81)	TM	B[a]anthracen	1.100	1.062	1.112	1.109	1.136	1.147	1.120	1.112	2.48
82)	TM	Chrysene	1.034	1.010	1.069	1.076	1.098	1.099	1.075	1.066	3.08
83)	TM	bis2Ethlhxlph	0.750	0.812	0.888	0.864	0.884	0.868	0.834	0.843	5.80
84)	CTM	Dinoctylphthl	1.303	1.431	1.542	1.531	1.590	1.564	1.521	1.498	6.62
85)	I	Perylene-d12	----------ISTD----------								
86)	TM	B[b]fluoranth	1.046	1.097	1.230	1.194	1.159	1.235	1.284	1.178	7.09
87)	TM	B[k]fluoranth	1.057	1.006	1.090	1.117	1.240	1.188	1.092	1.113	7.09
88)	CTM	Benz[a]pyrene	0.967	0.969	1.094	1.099	1.119	1.160	1.118	1.075	7.08
89)	TM	Indeno-pyrene	1.003	1.033	1.097	1.121	1.122	1.151	1.116	1.092	4.91
90)	TM	Dib[ah]anthr	0.795	0.819	0.900	0.909	0.917	0.941	0.921	0.886	6.28
91)	TM	B[ghi]perylen	0.822	0.860	0.917	0.928	0.926	0.963	0.933	0.907	5.34

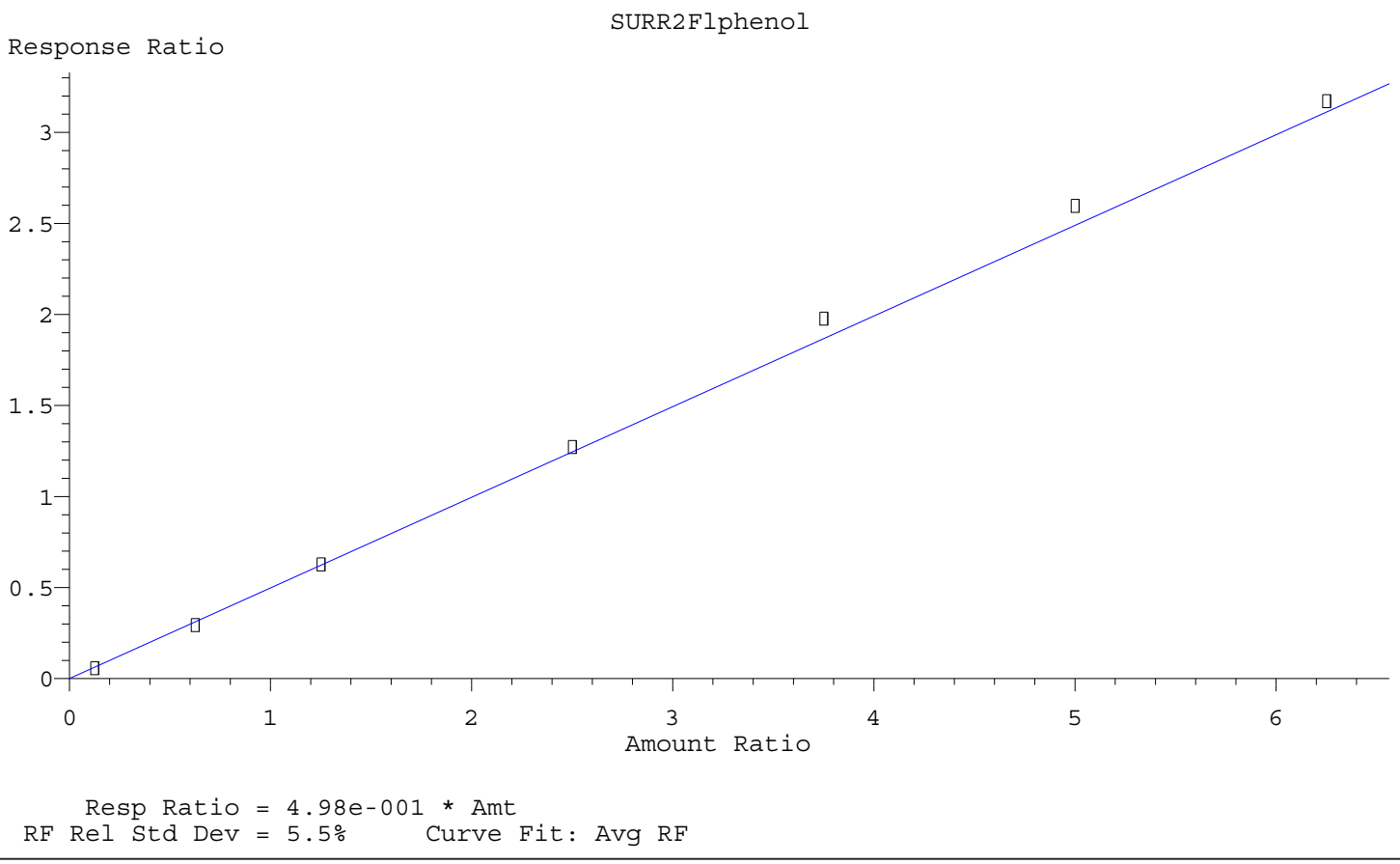
(#) = Out of Range



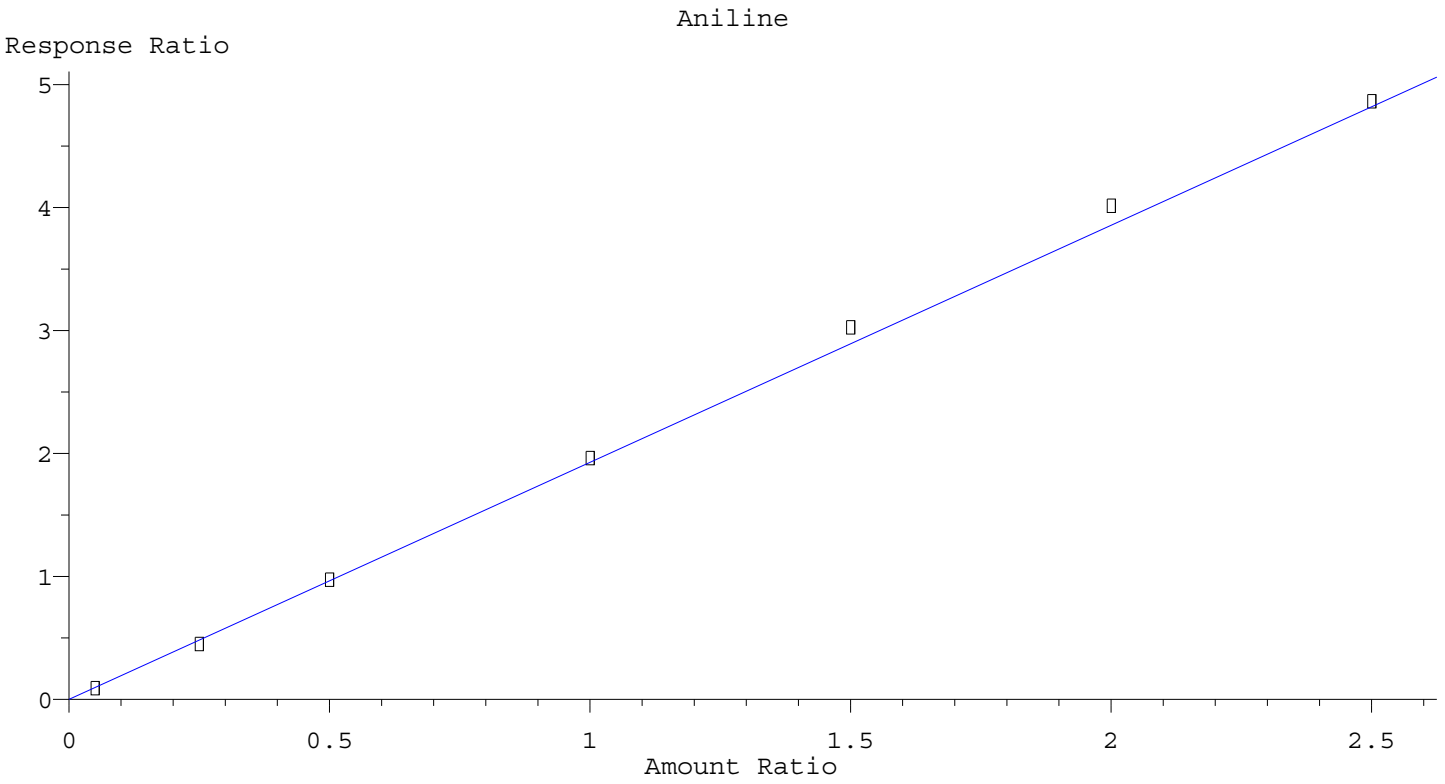
Resp Ratio = 7.10e-001 * Amt
RF Rel Std Dev = 4.3% Curve Fit: Avg RF



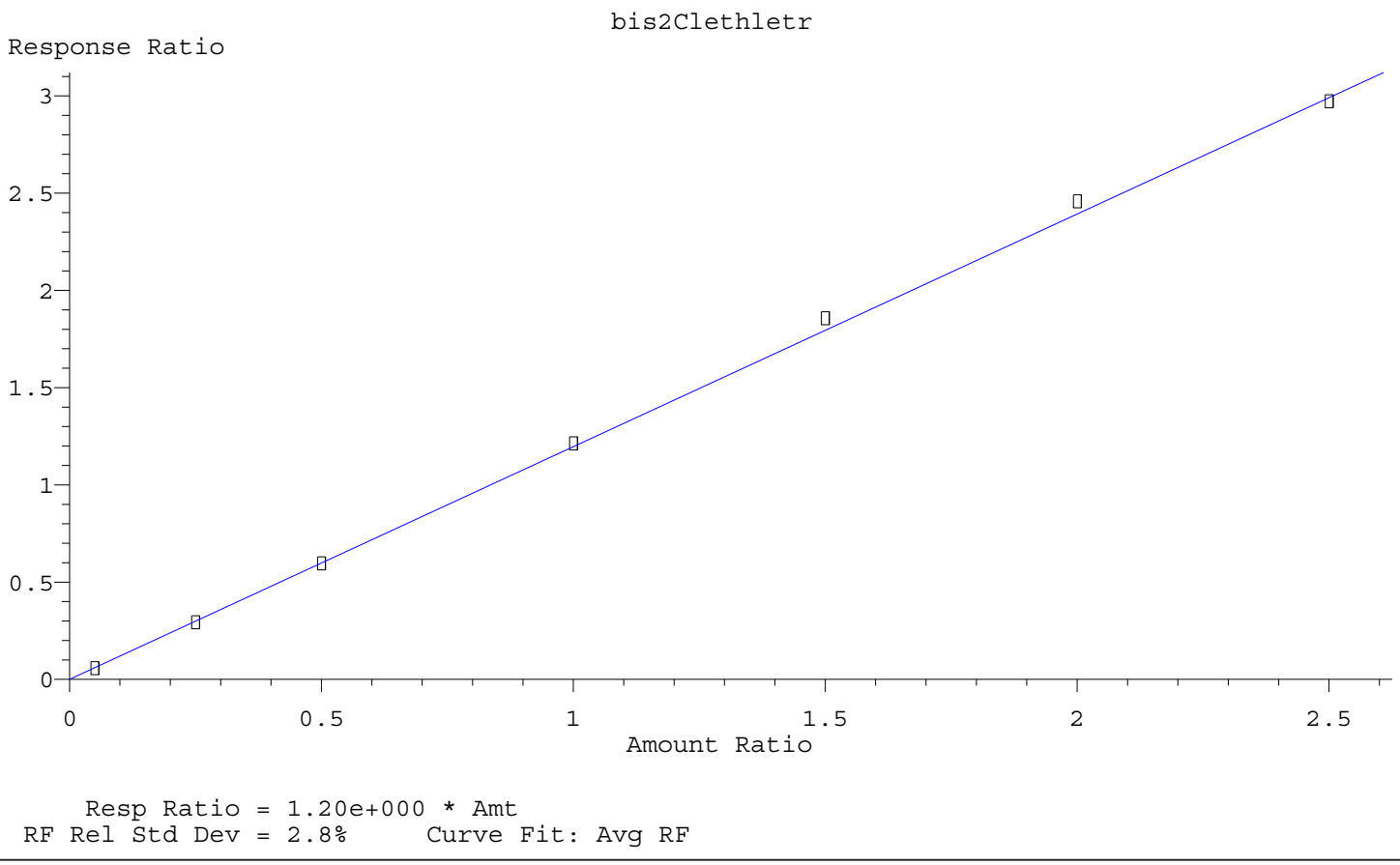
Resp Ratio = 1.26e+000 * Amt
RF Rel Std Dev = 6.7% Curve Fit: Avg RF



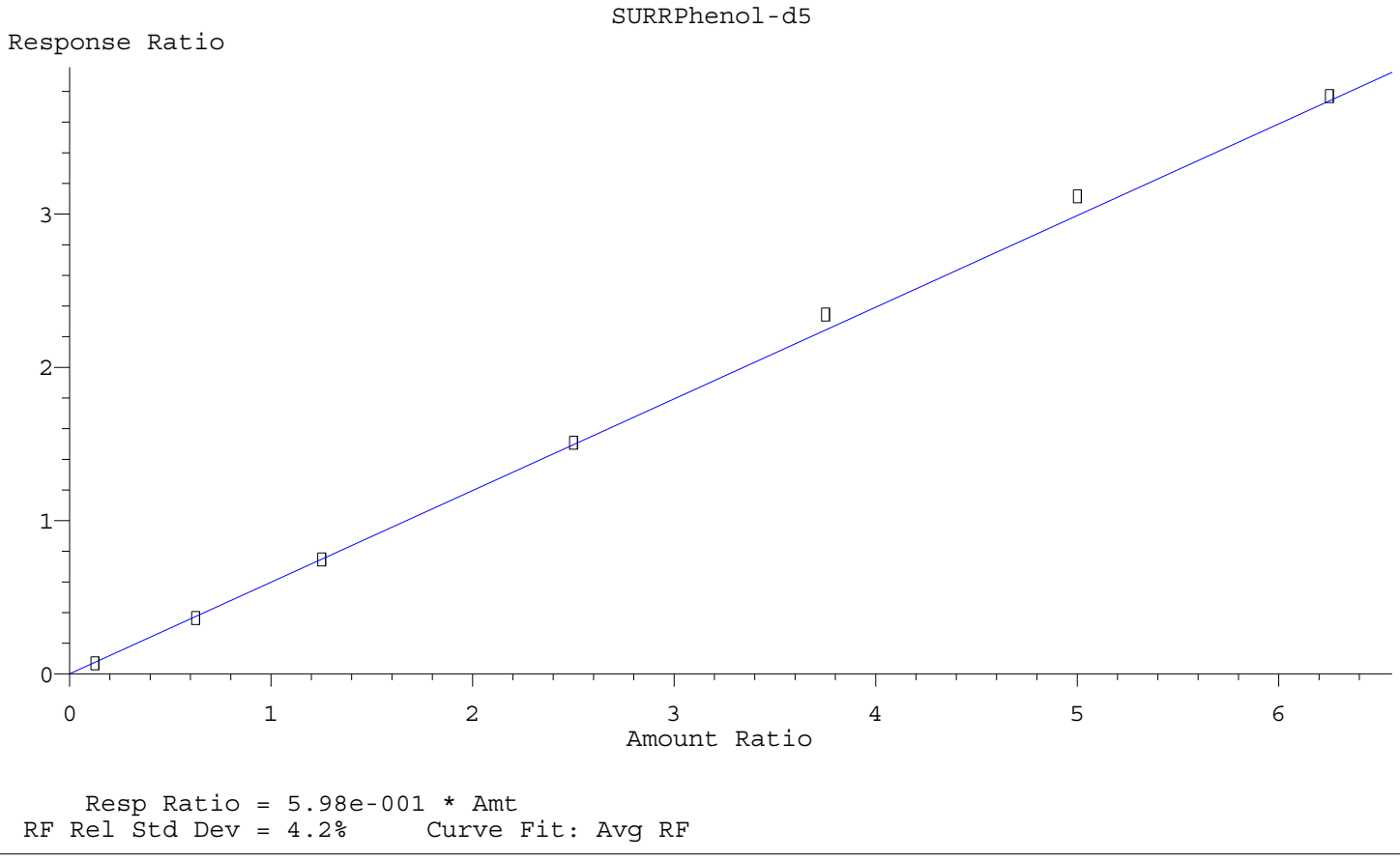
Resp Ratio = 4.98e-001 * Amt
RF Rel Std Dev = 5.5% Curve Fit: Avg RF



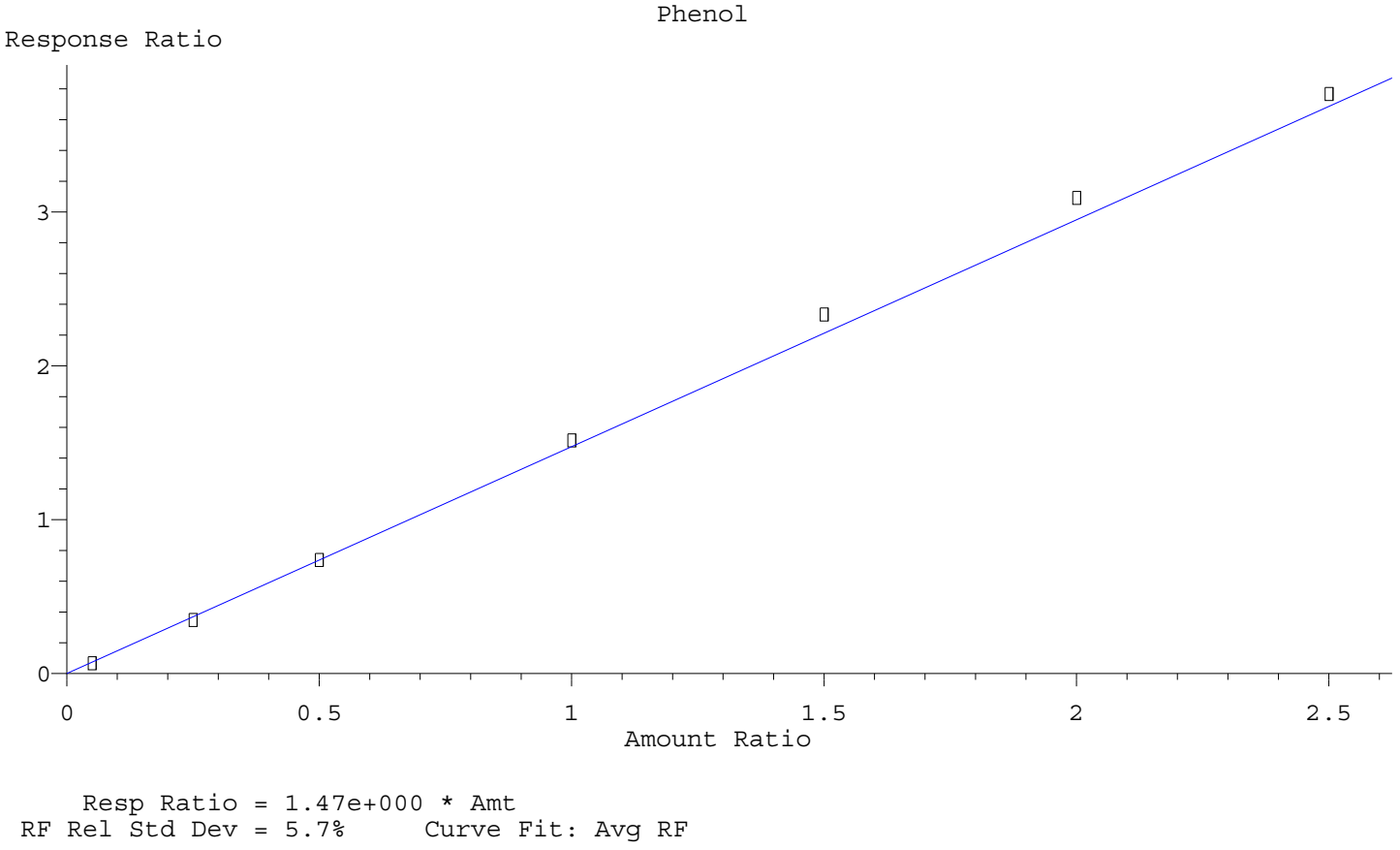
Resp Ratio = 1.93e+000 * Amt
RF Rel Std Dev = 4.5% Curve Fit: Avg RF



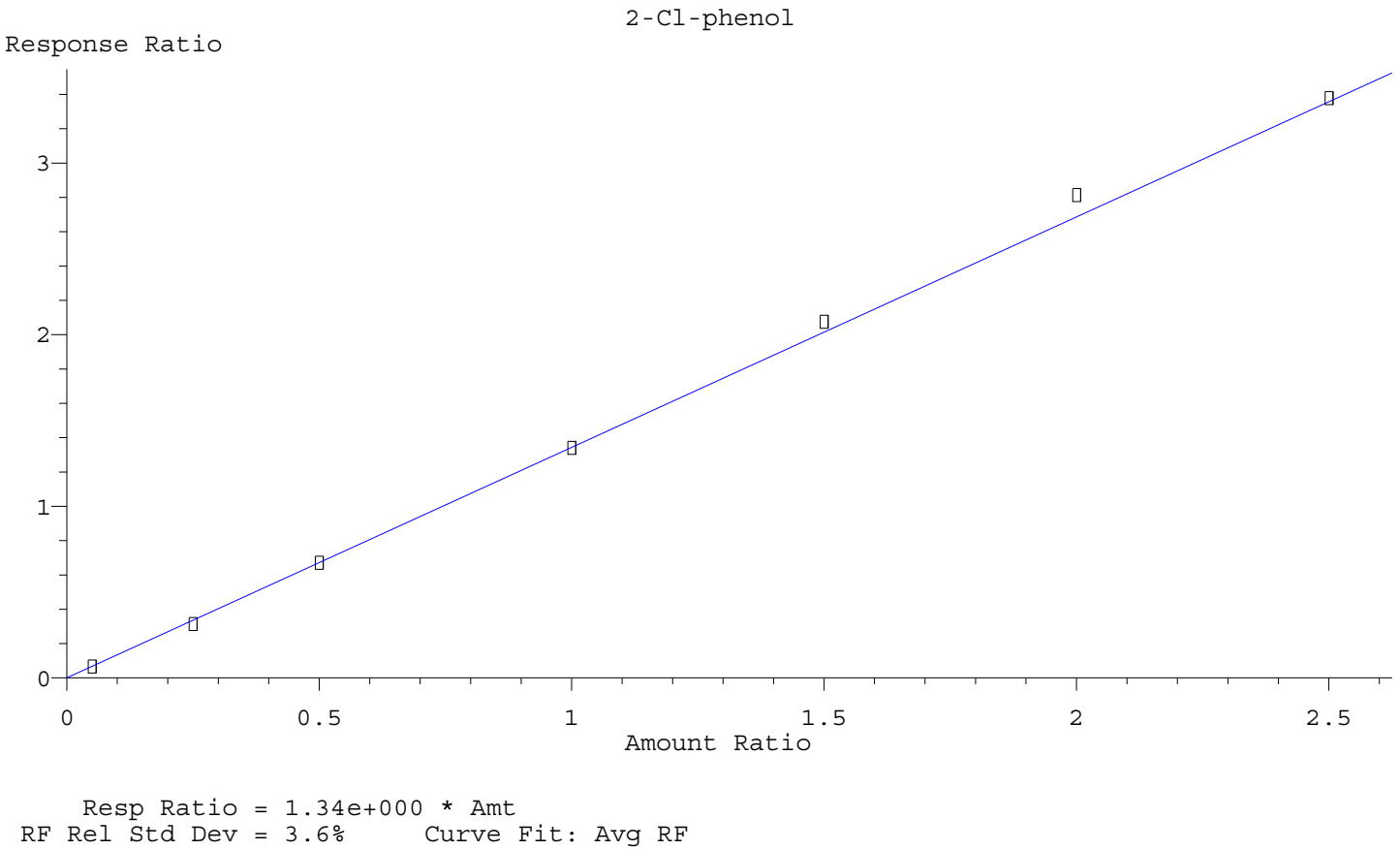
Resp Ratio = 1.20e+000 * Amt
RF Rel Std Dev = 2.8% Curve Fit: Avg RF



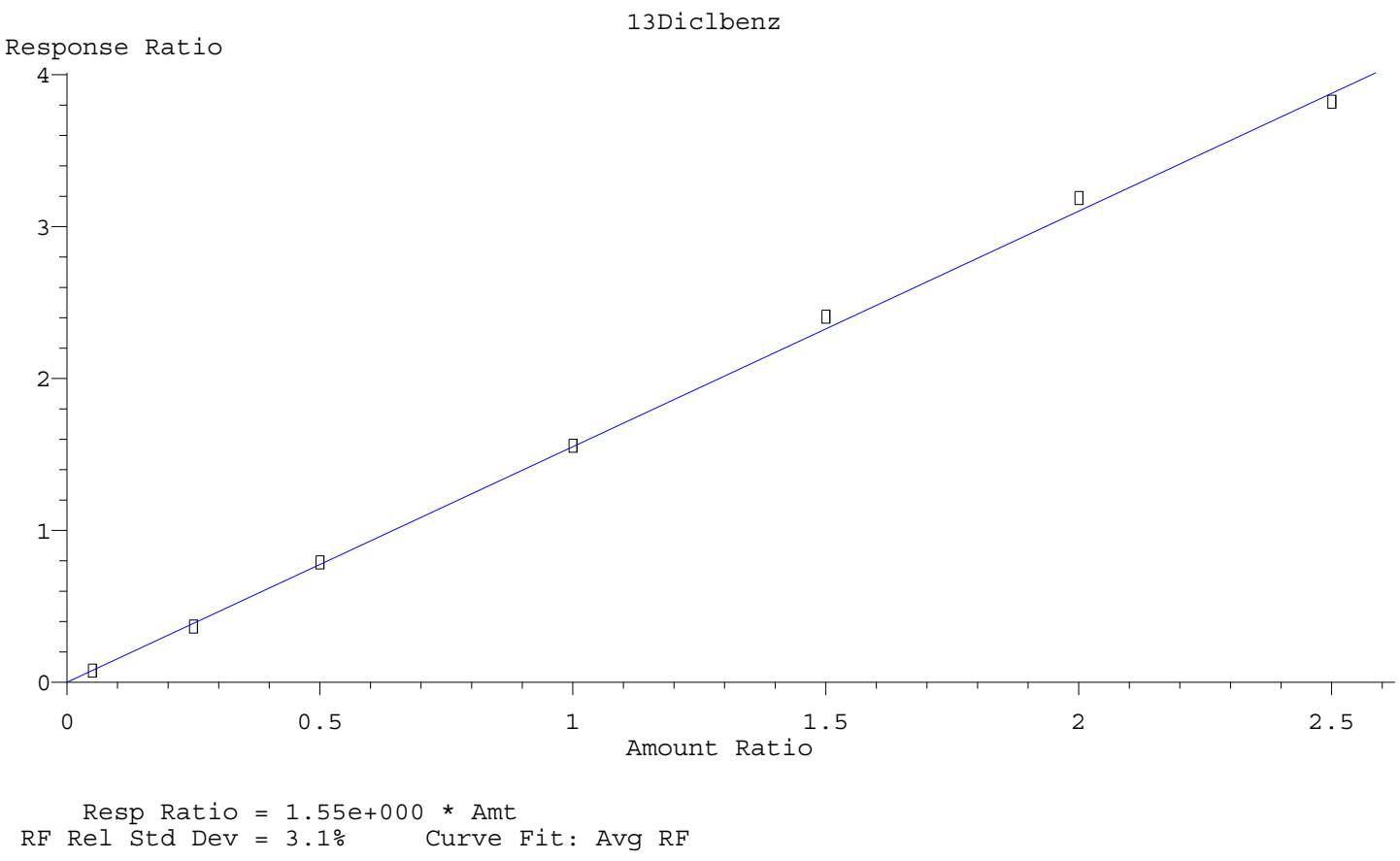
Resp Ratio = 5.98e-001 * Amt
RF Rel Std Dev = 4.2% Curve Fit: Avg RF



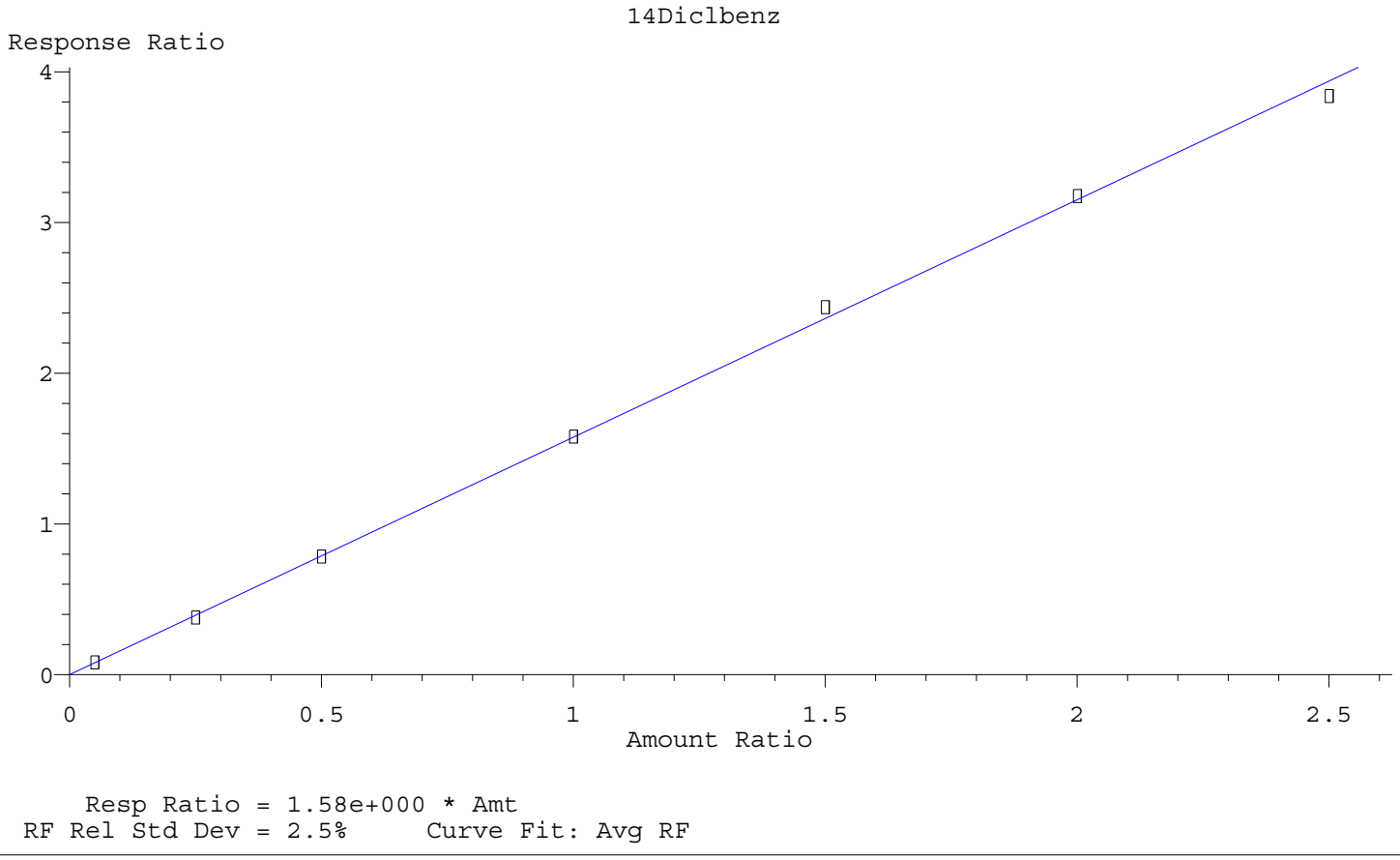
Resp Ratio = 1.47e+000 * Amt
RF Rel Std Dev = 5.7% Curve Fit: Avg RF



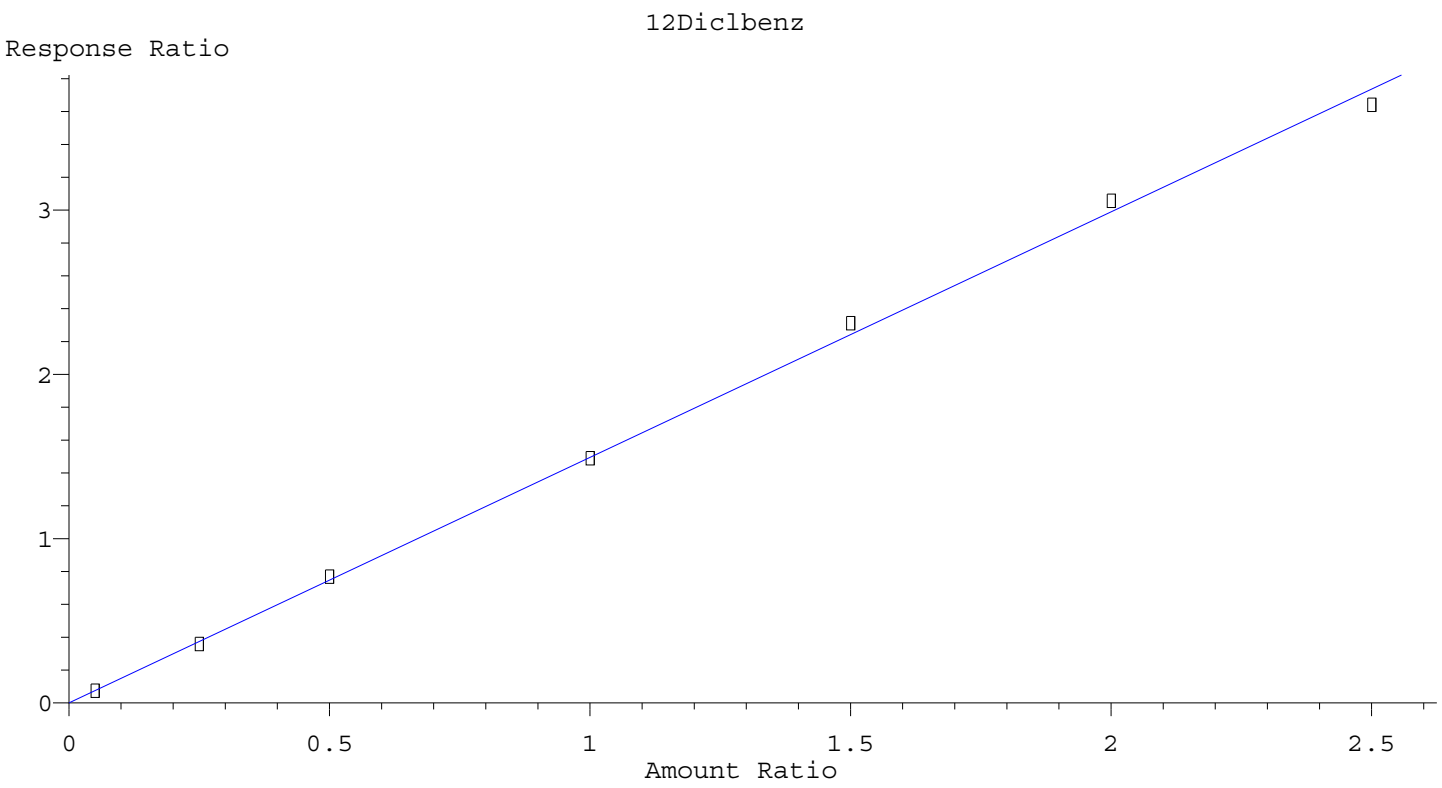
Resp Ratio = 1.34e+000 * Amt
RF Rel Std Dev = 3.6% Curve Fit: Avg RF



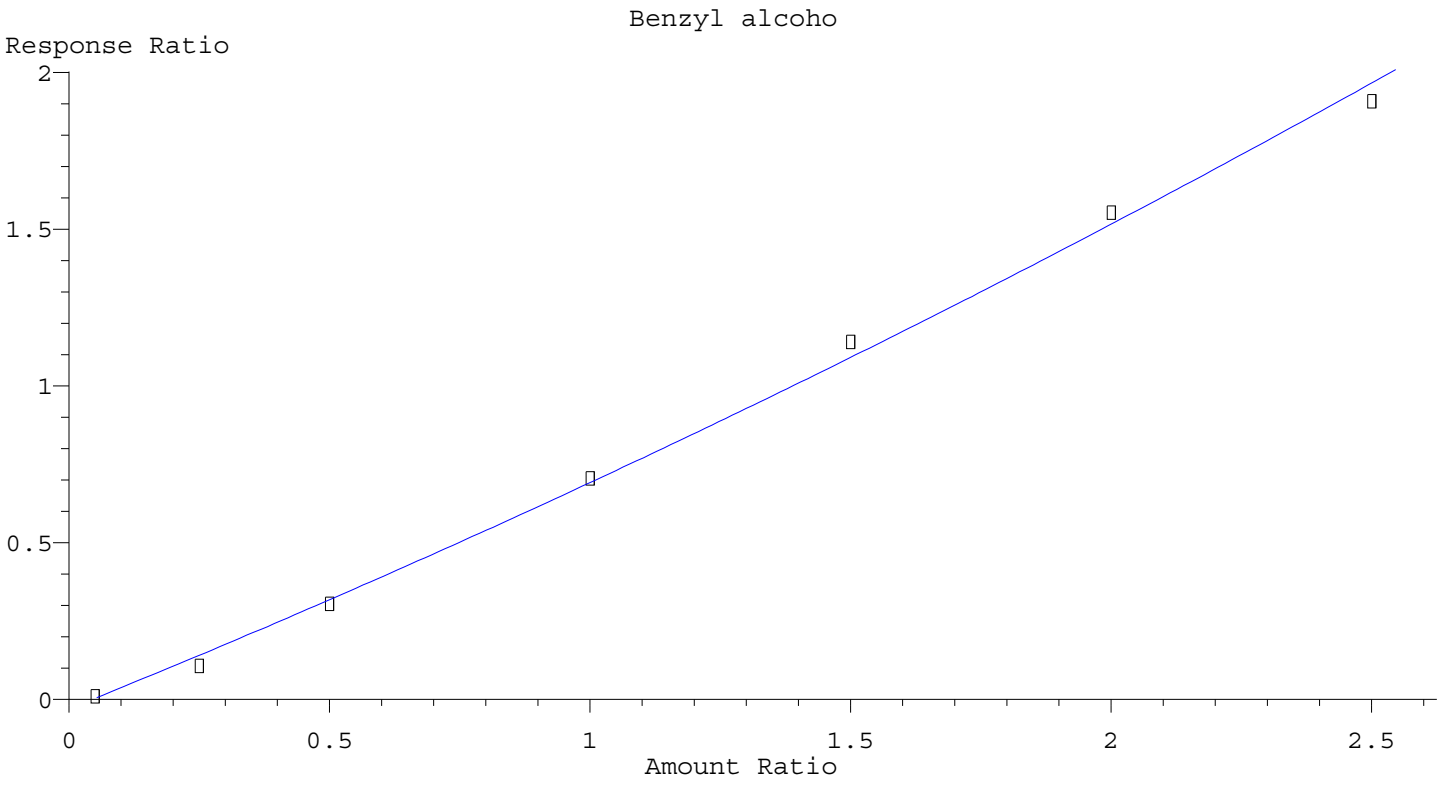
Resp Ratio = 1.55e+000 * Amt
RF Rel Std Dev = 3.1% Curve Fit: Avg RF



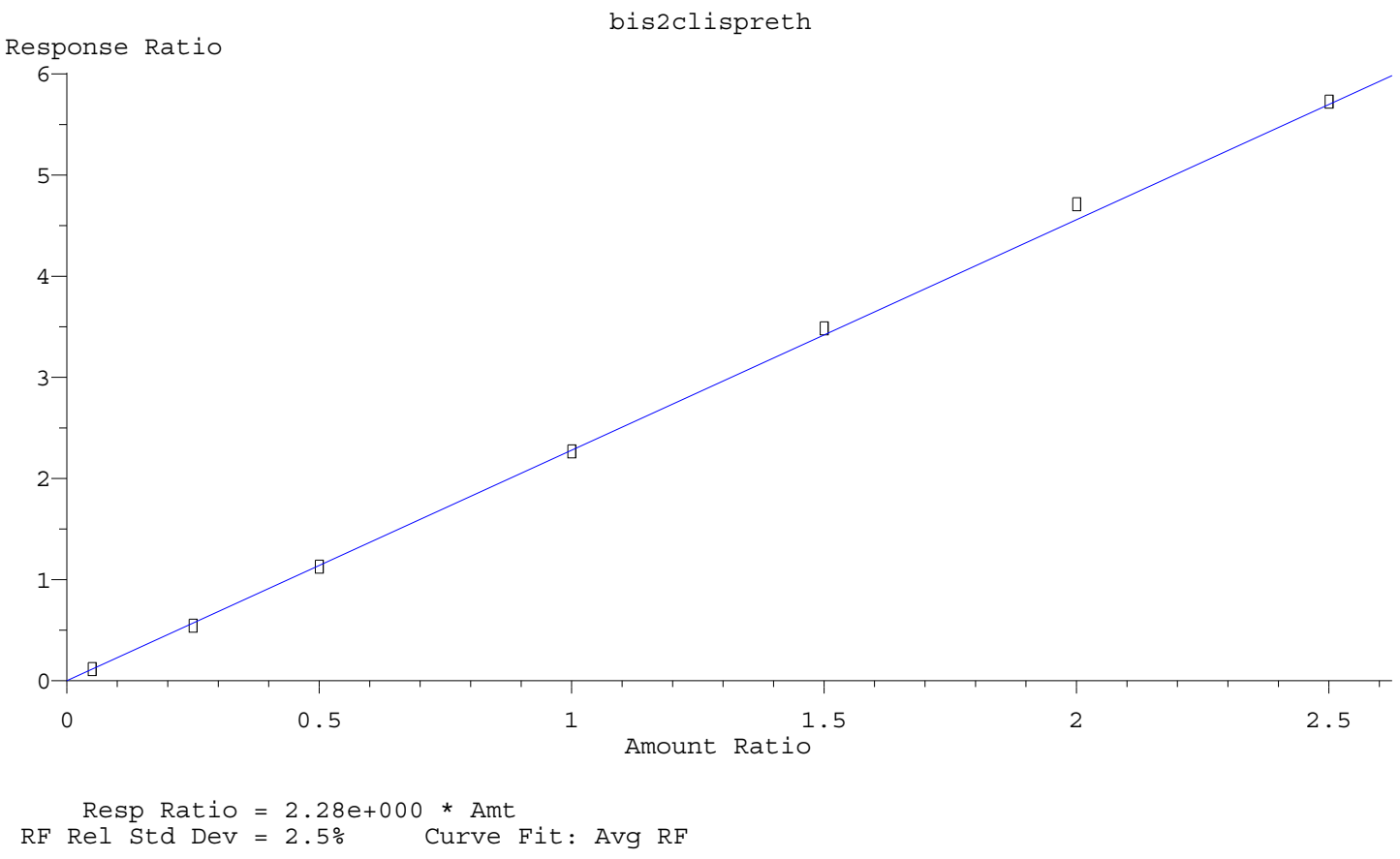
Resp Ratio = 1.58e+000 * Amt
RF Rel Std Dev = 2.5% Curve Fit: Avg RF



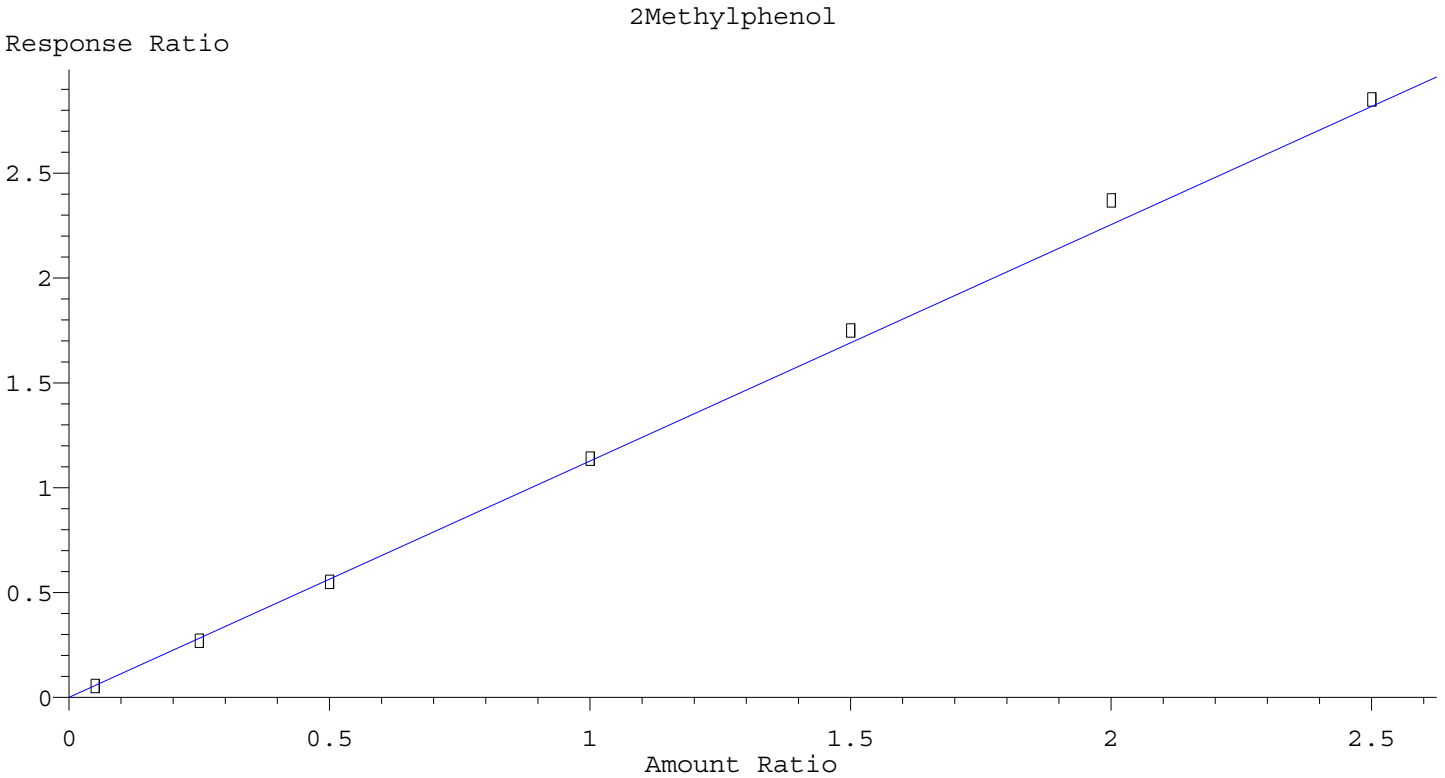
Resp Ratio = 1.50e+000 * Amt
RF Rel Std Dev = 2.8% Curve Fit: Avg RF



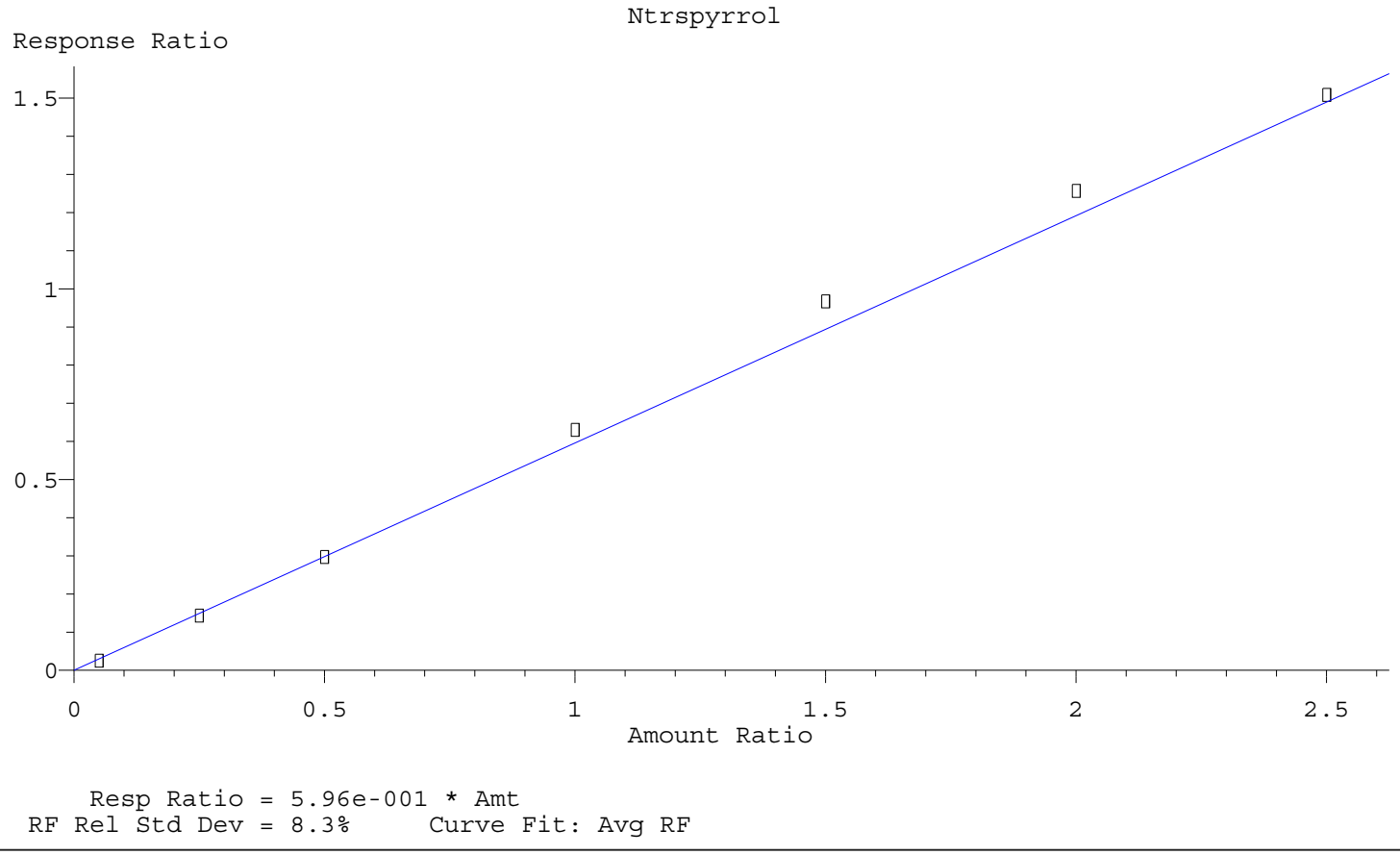
R = 5.12e-002 A*A + 6.71e-001 A - 3.02e-002
Coef of Det (r^2) = 0.997 Curve Fit: Quadratic w(1/a)



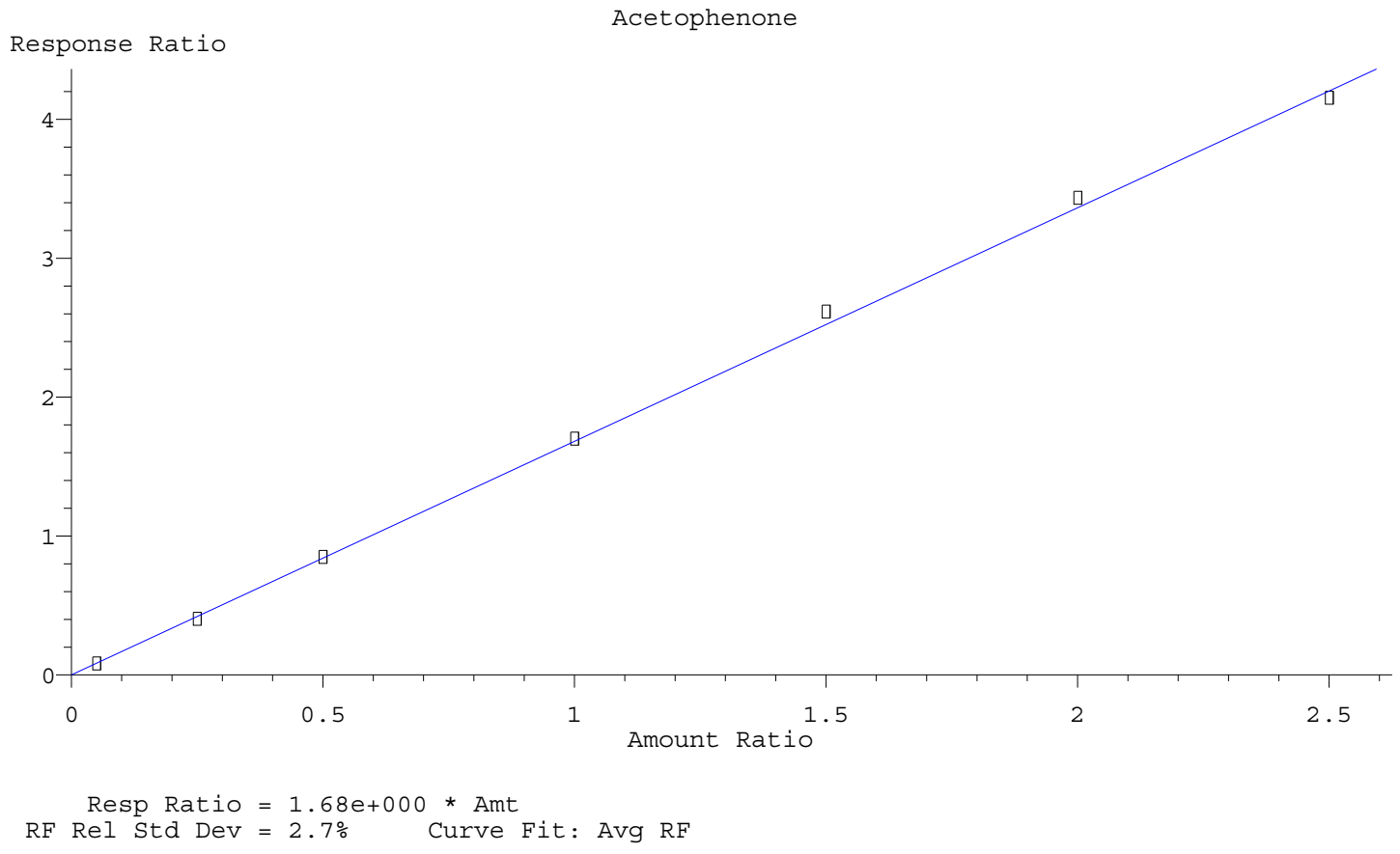
Resp Ratio = 2.28e+000 * Amt
RF Rel Std Dev = 2.5% Curve Fit: Avg RF



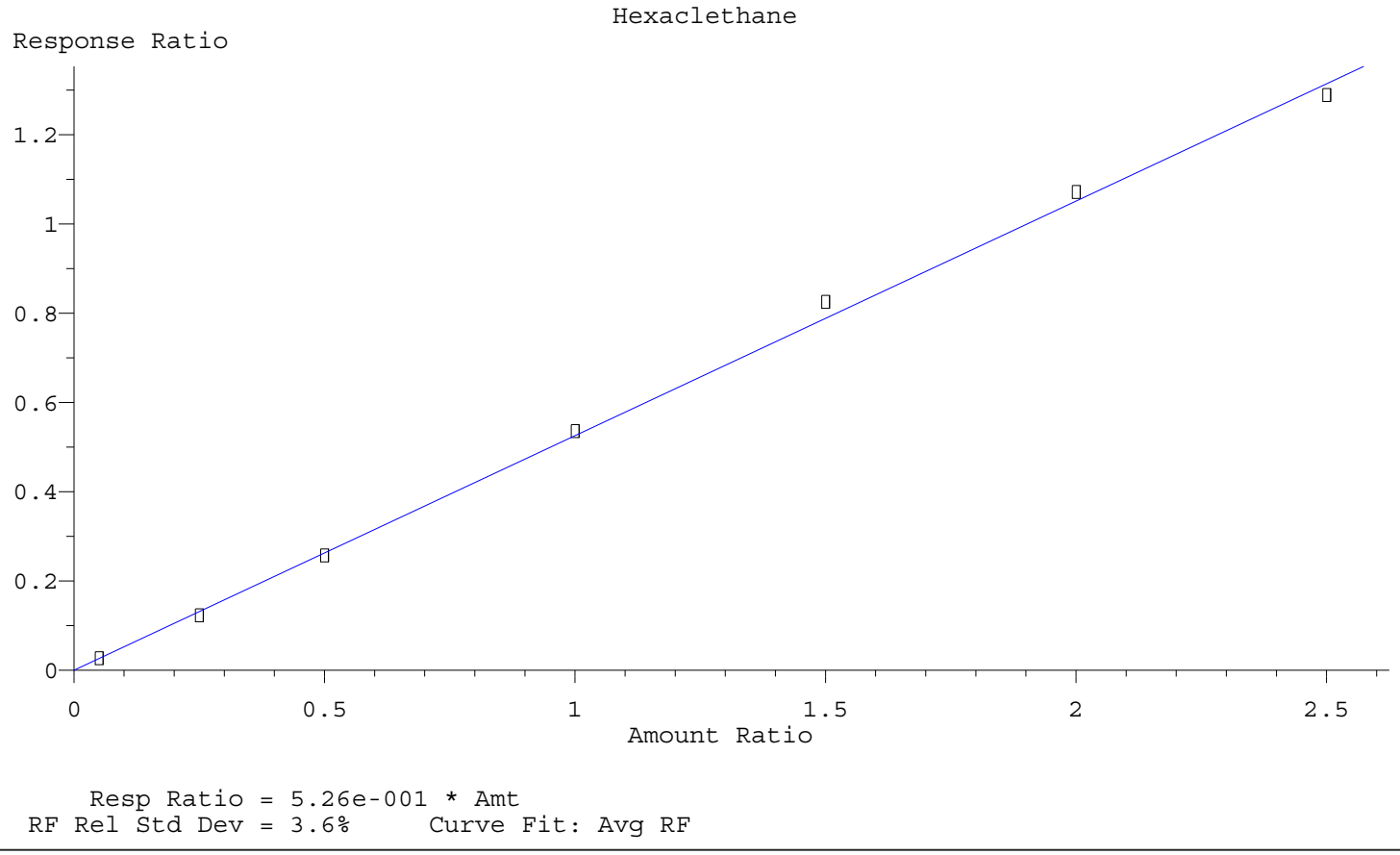
Resp Ratio = 1.13e+000 * Amt
RF Rel Std Dev = 3.7% Curve Fit: Avg RF



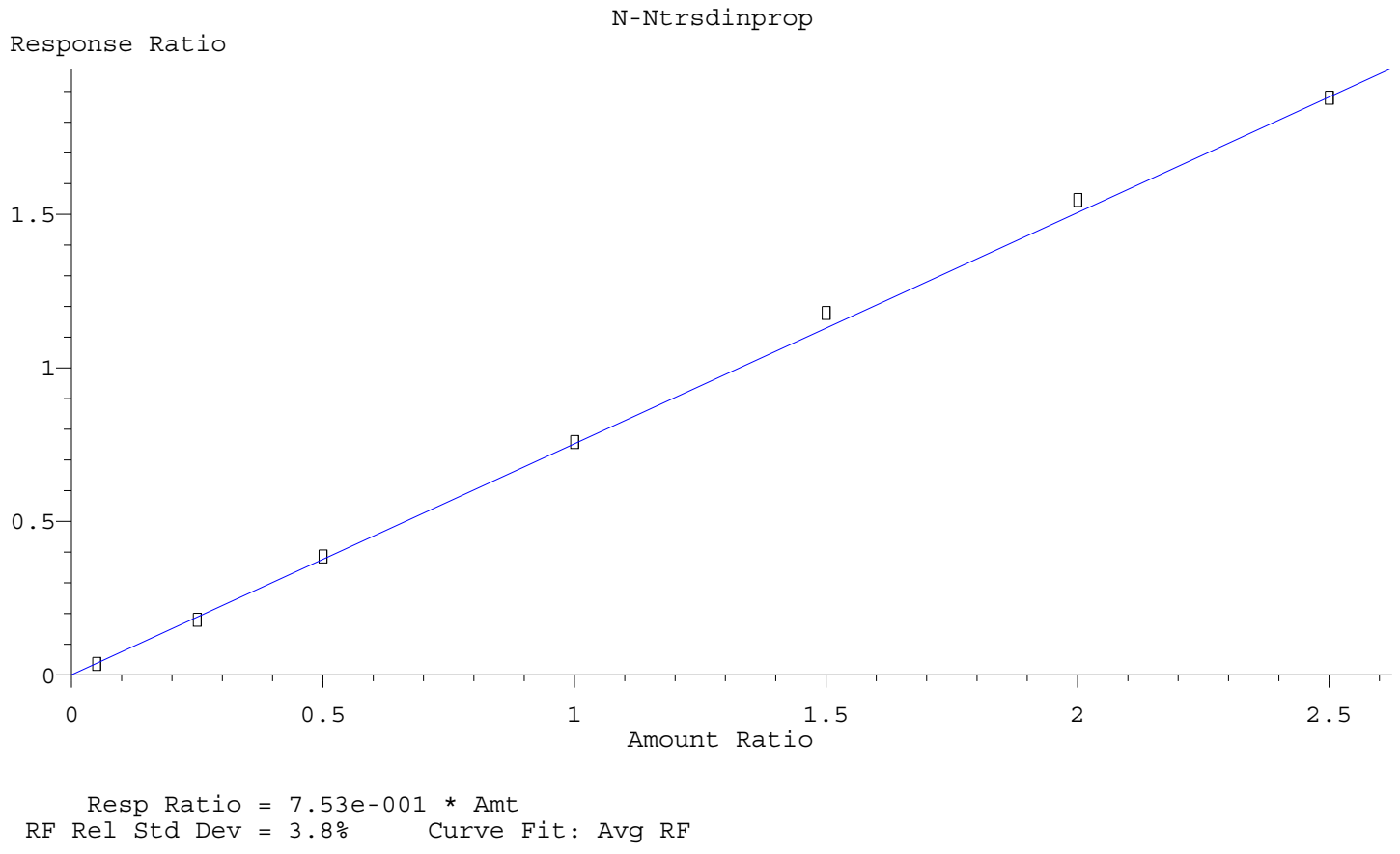
Resp Ratio = 5.96e-001 * Amt
RF Rel Std Dev = 8.3% Curve Fit: Avg RF



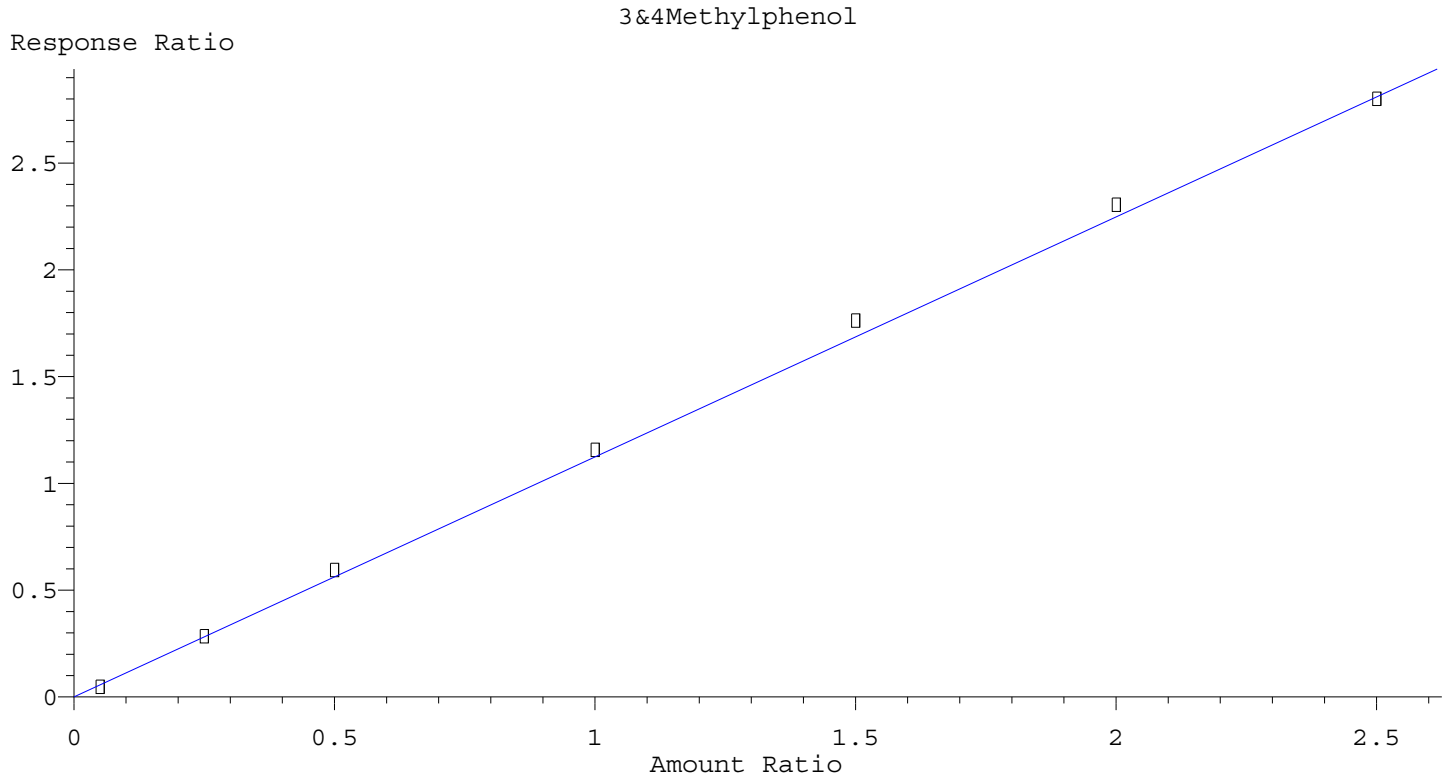
Resp Ratio = 1.68e+000 * Amt
RF Rel Std Dev = 2.7% Curve Fit: Avg RF



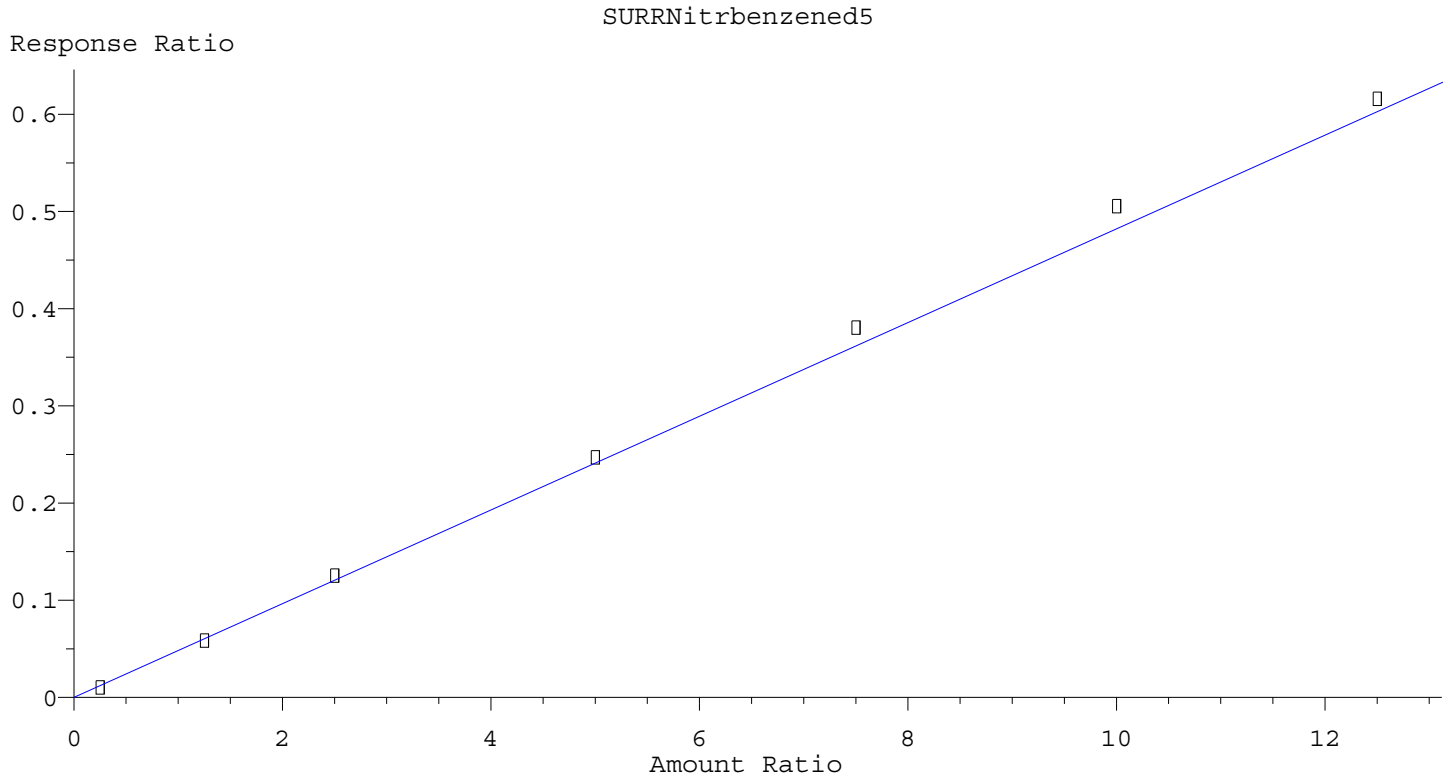
Resp Ratio = 5.26e-001 * Amt
RF Rel Std Dev = 3.6% Curve Fit: Avg RF



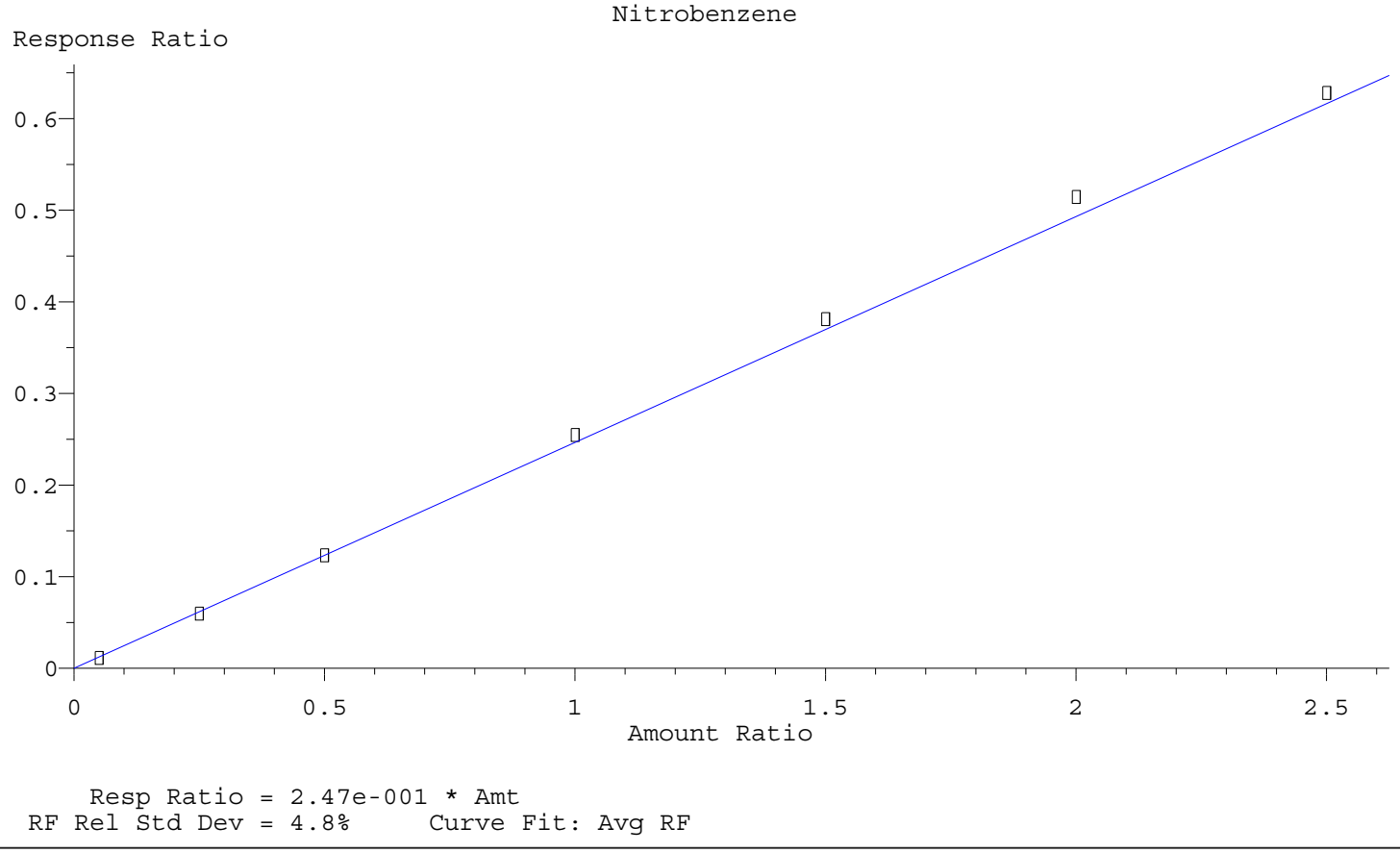
Resp Ratio = 7.53e-001 * Amt
RF Rel Std Dev = 3.8% Curve Fit: Avg RF



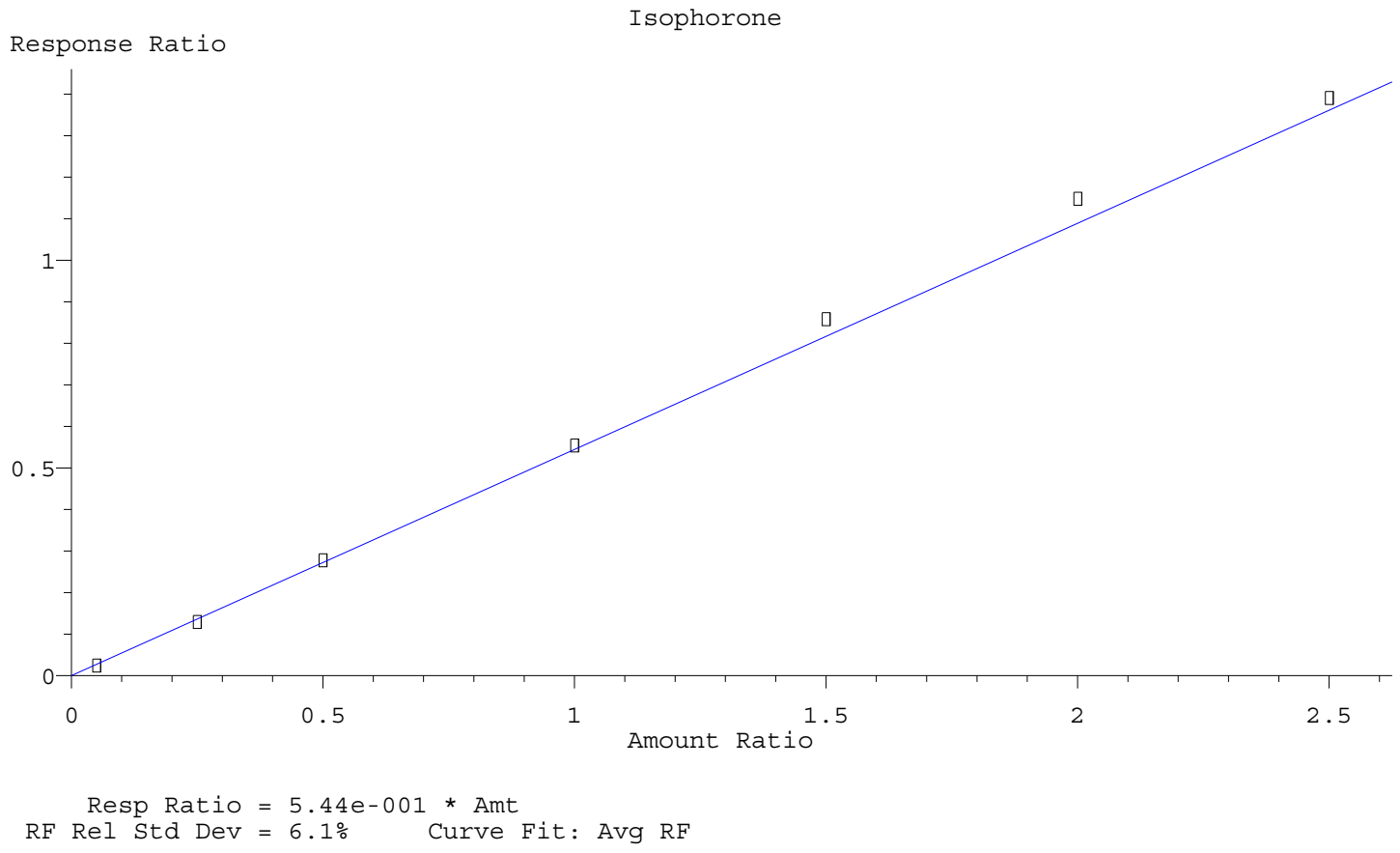
Resp Ratio = 1.12e+000 * Amt
RF Rel Std Dev = 7.4% Curve Fit: Avg RF



Resp Ratio = 4.83e-002 * Amt
RF Rel Std Dev = 7.2% Curve Fit: Avg RF

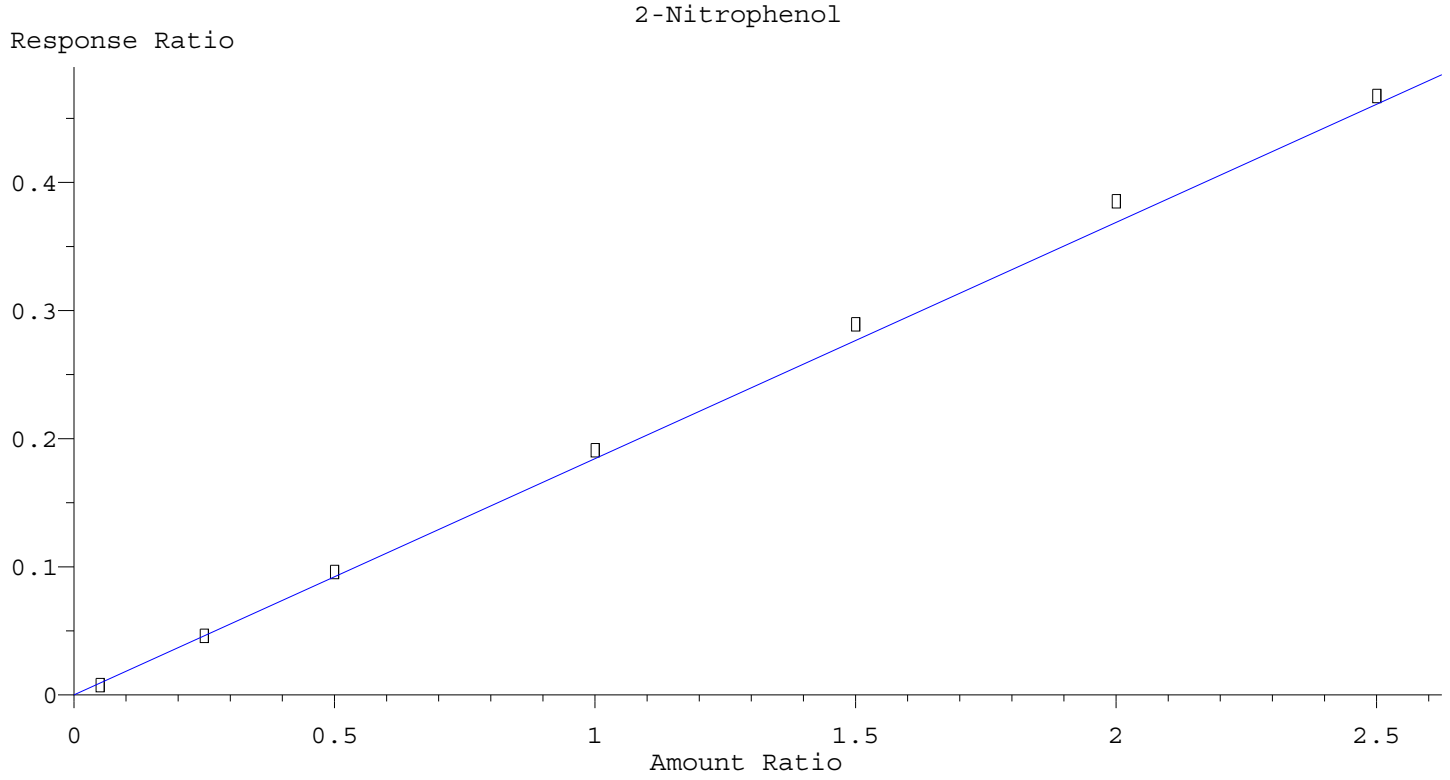


Resp Ratio = 2.47e-001 * Amt
RF Rel Std Dev = 4.8% Curve Fit: Avg RF



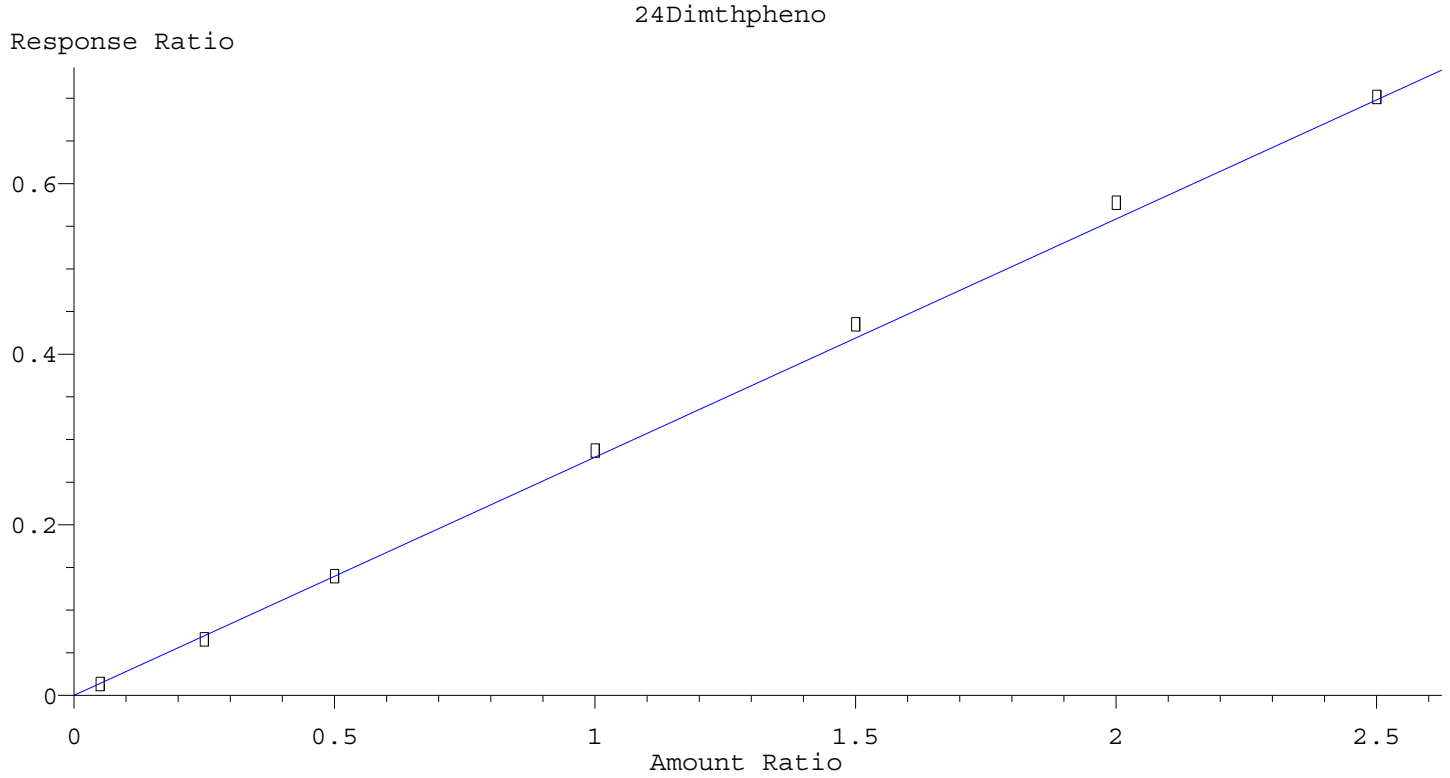
Resp Ratio = 5.44e-001 * Amt
RF Rel Std Dev = 6.1% Curve Fit: Avg RF

2-Nitrophenol

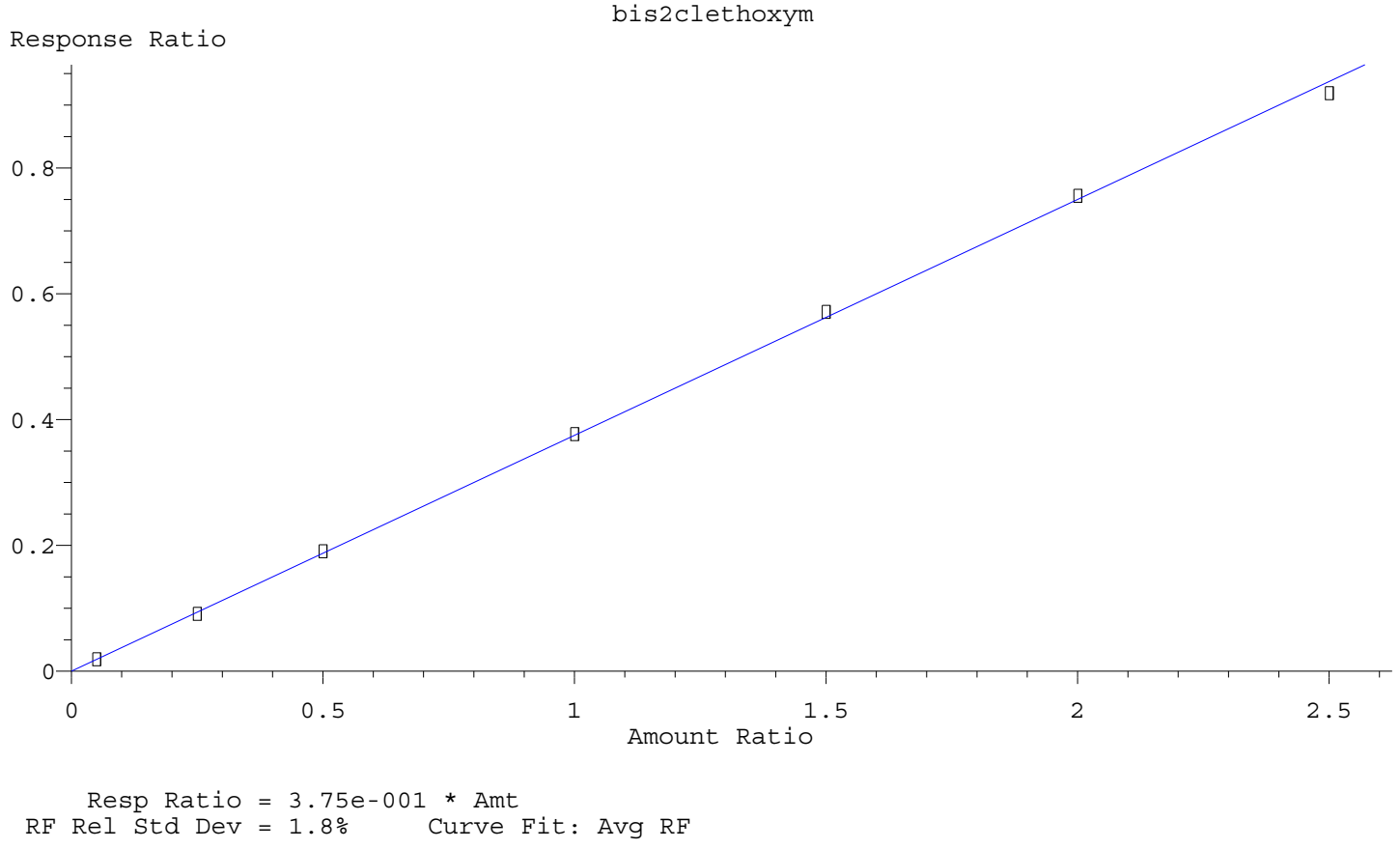


Resp Ratio = 1.84e-001 * Amt
RF Rel Std Dev = 8.1% Curve Fit: Avg RF

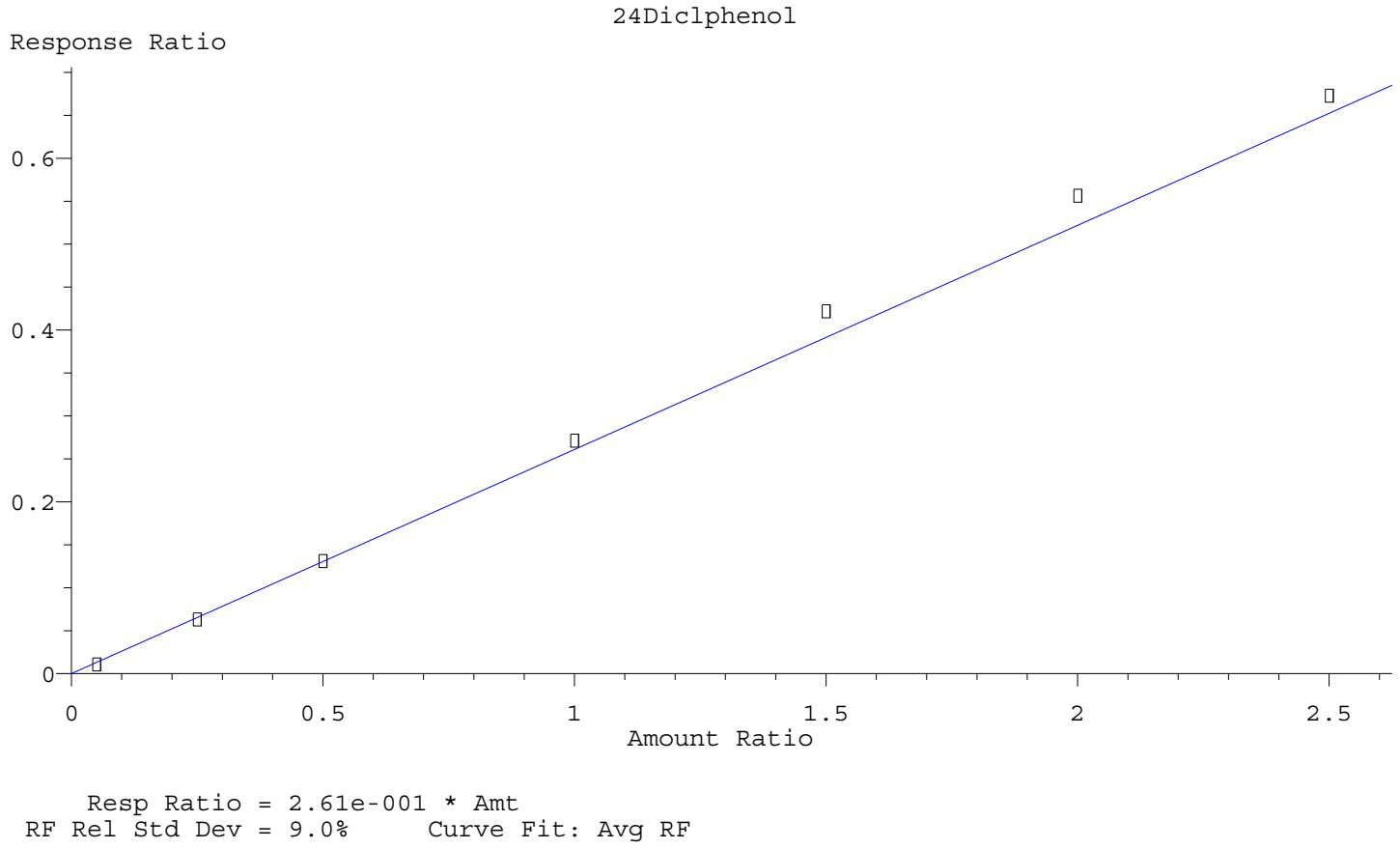
24Dimthpheno



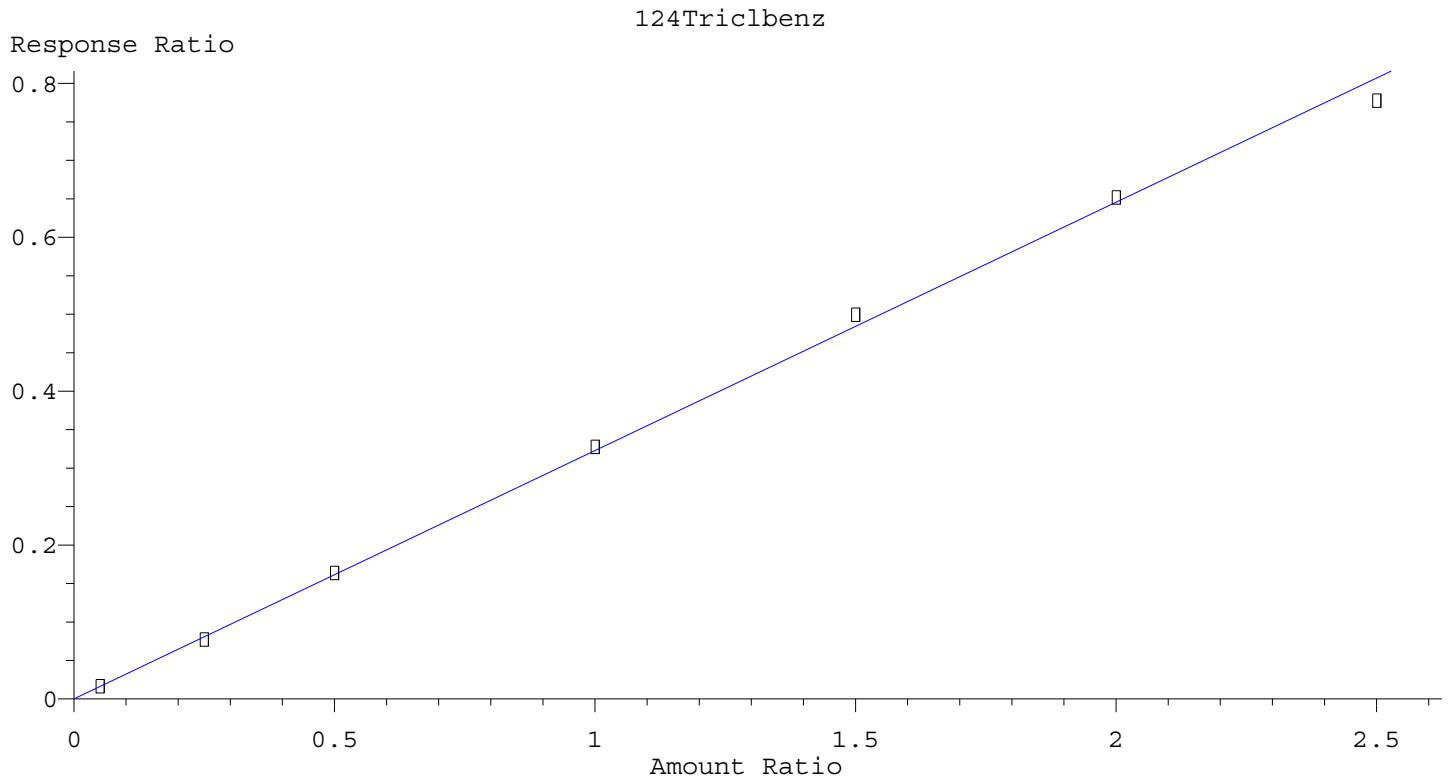
Resp Ratio = 2.79e-001 * Amt
RF Rel Std Dev = 3.8% Curve Fit: Avg RF



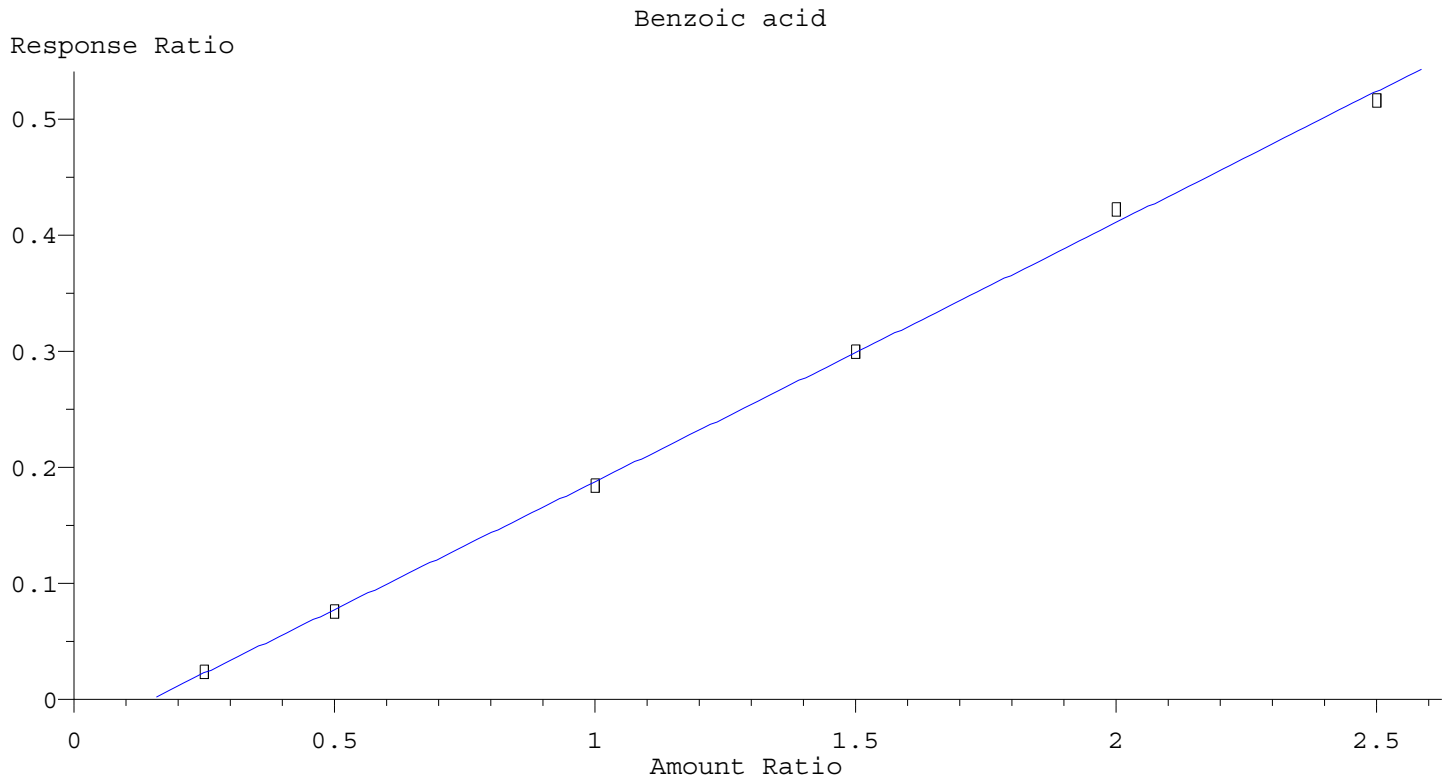
Resp Ratio = 3.75e-001 * Amt
RF Rel Std Dev = 1.8% Curve Fit: Avg RF



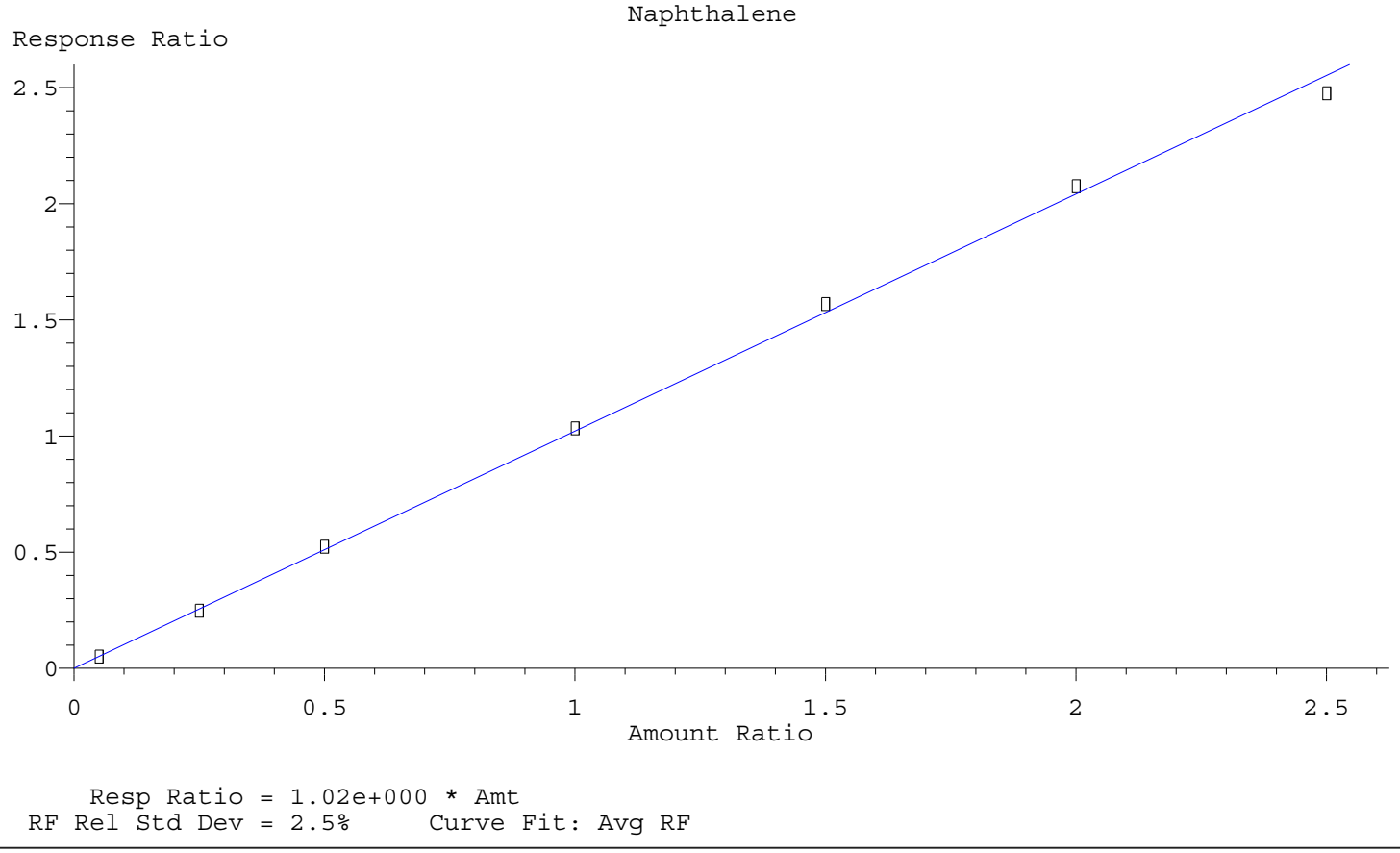
Resp Ratio = 2.61e-001 * Amt
RF Rel Std Dev = 9.0% Curve Fit: Avg RF



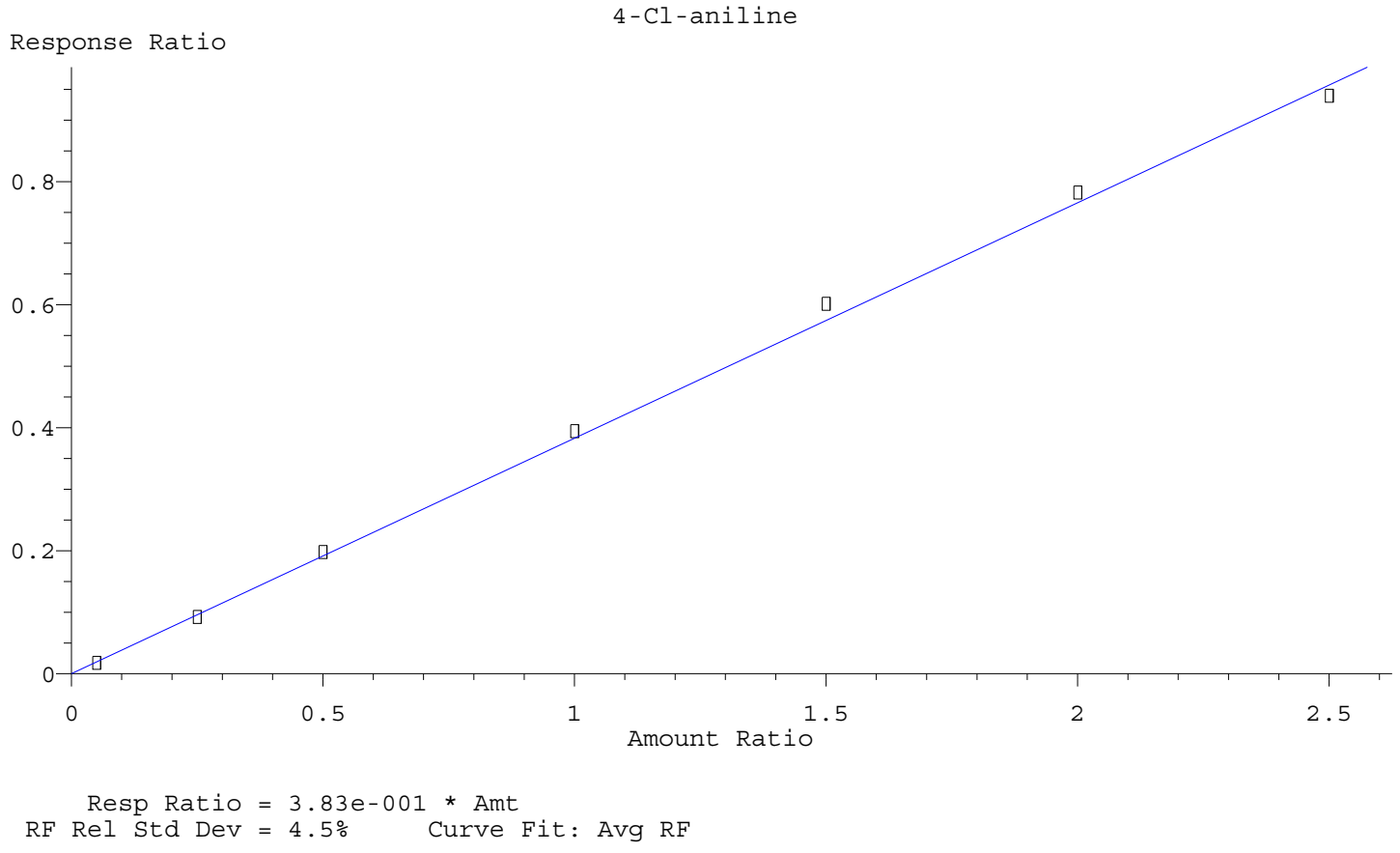
Resp Ratio = 3.23e-001 * Amt
RF Rel Std Dev = 2.9% Curve Fit: Avg RF



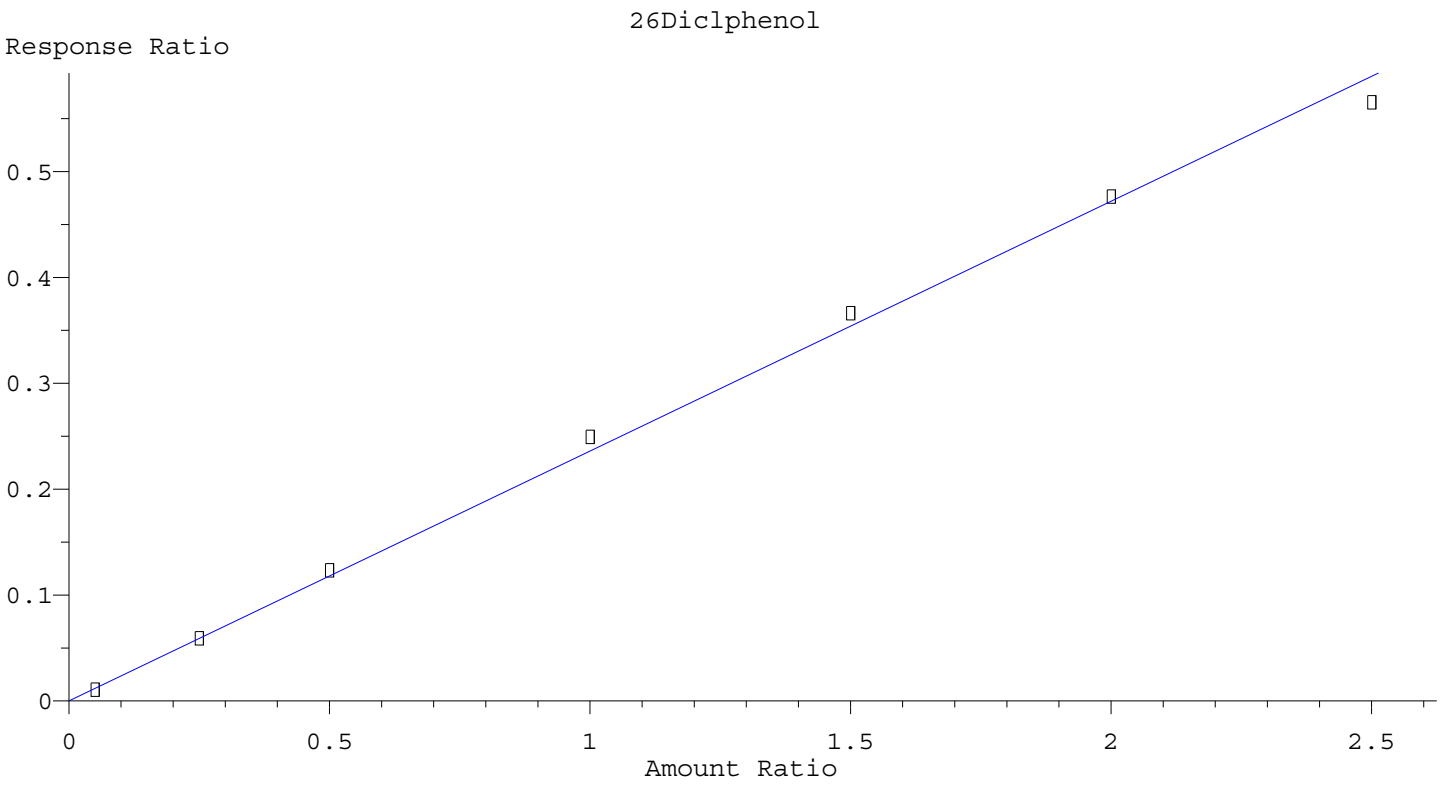
R = 1.91e-003 A*A + 2.18e-001 A - 3.18e-002
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a)



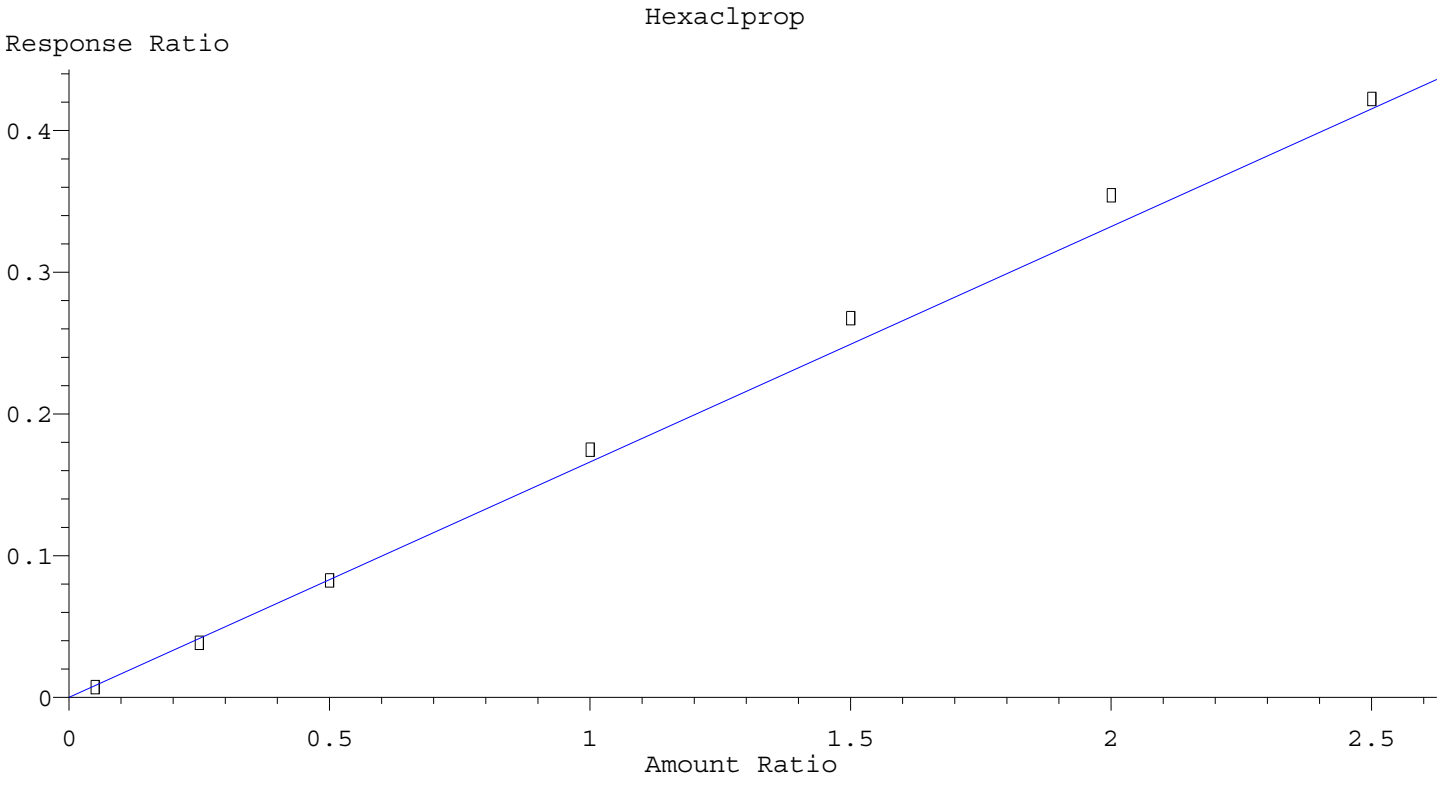
Resp Ratio = 1.02e+000 * Amt
RF Rel Std Dev = 2.5% Curve Fit: Avg RF



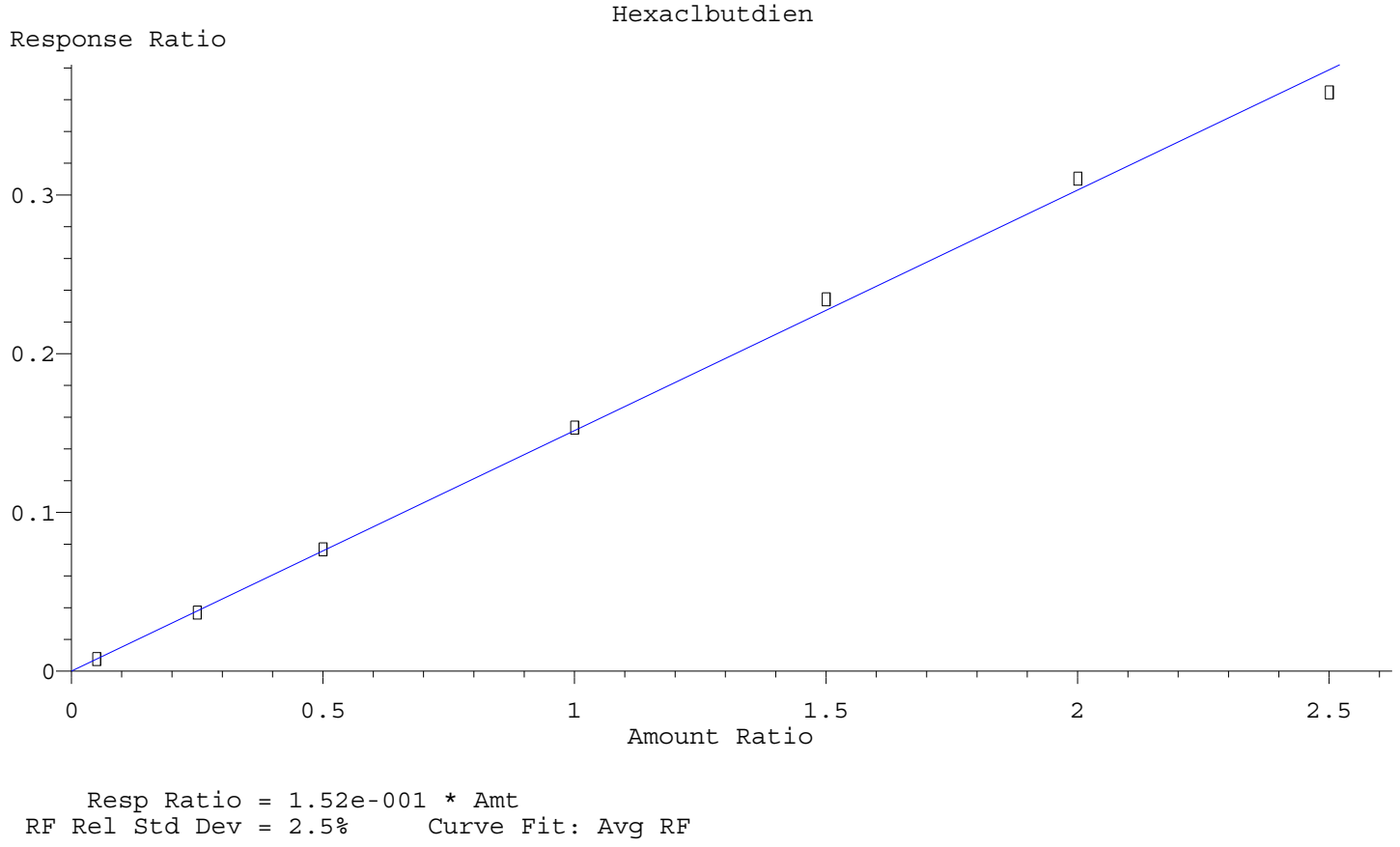
Resp Ratio = 3.83e-001 * Amt
RF Rel Std Dev = 4.5% Curve Fit: Avg RF



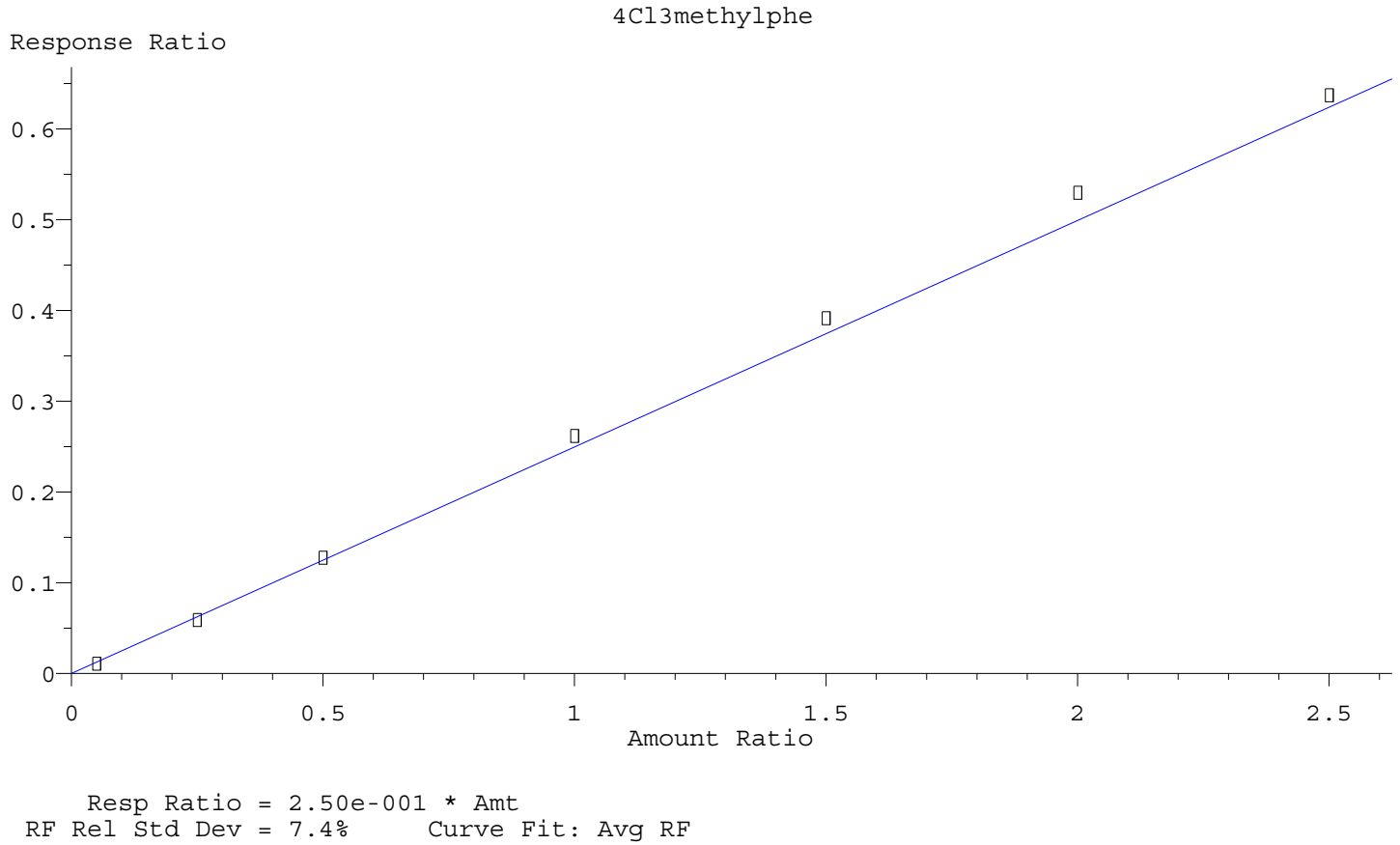
Resp Ratio = 2.36e-001 * Amt
RF Rel Std Dev = 5.4% Curve Fit: Avg RF



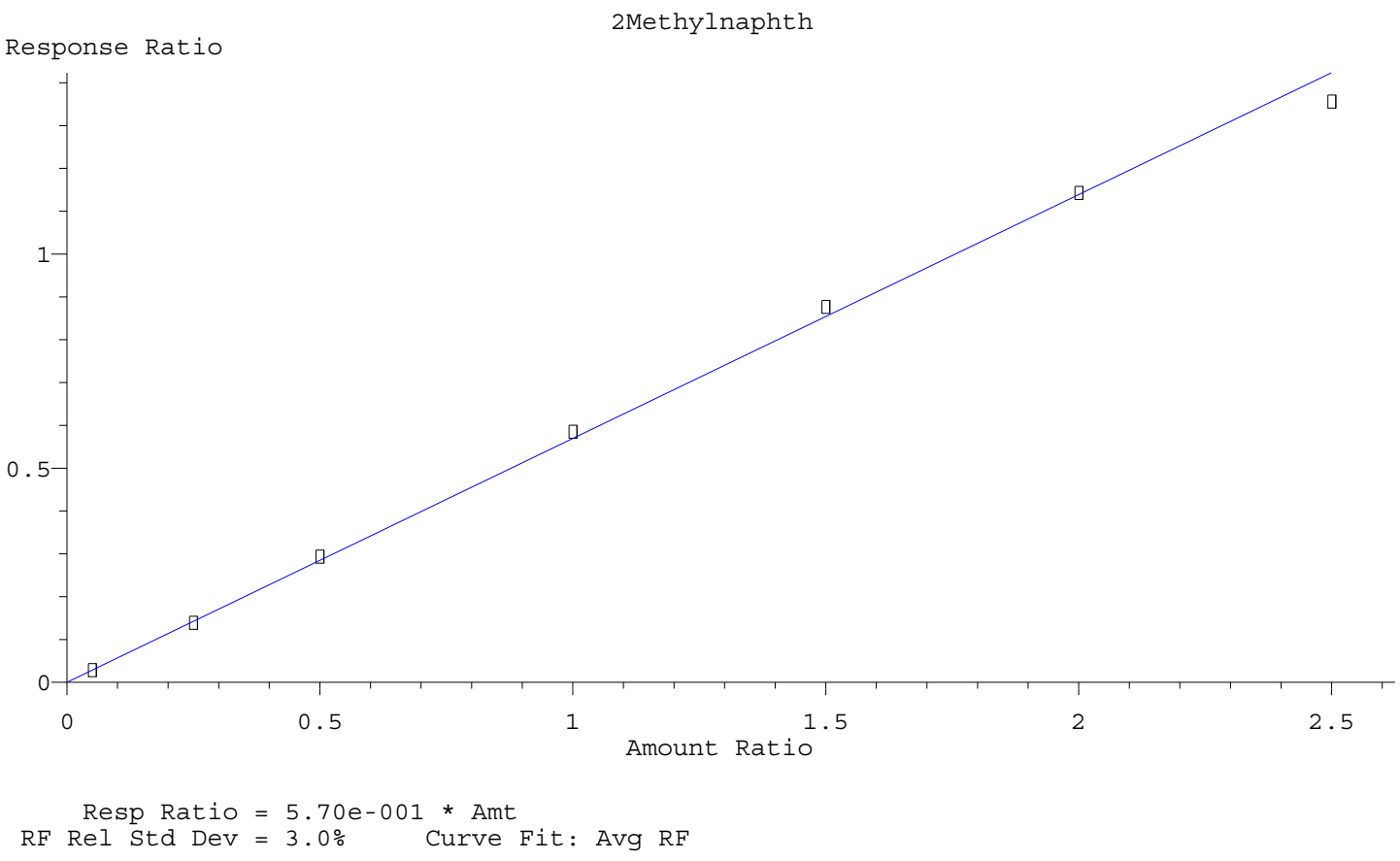
Resp Ratio = 1.66e-001 * Amt
RF Rel Std Dev = 7.7% Curve Fit: Avg RF



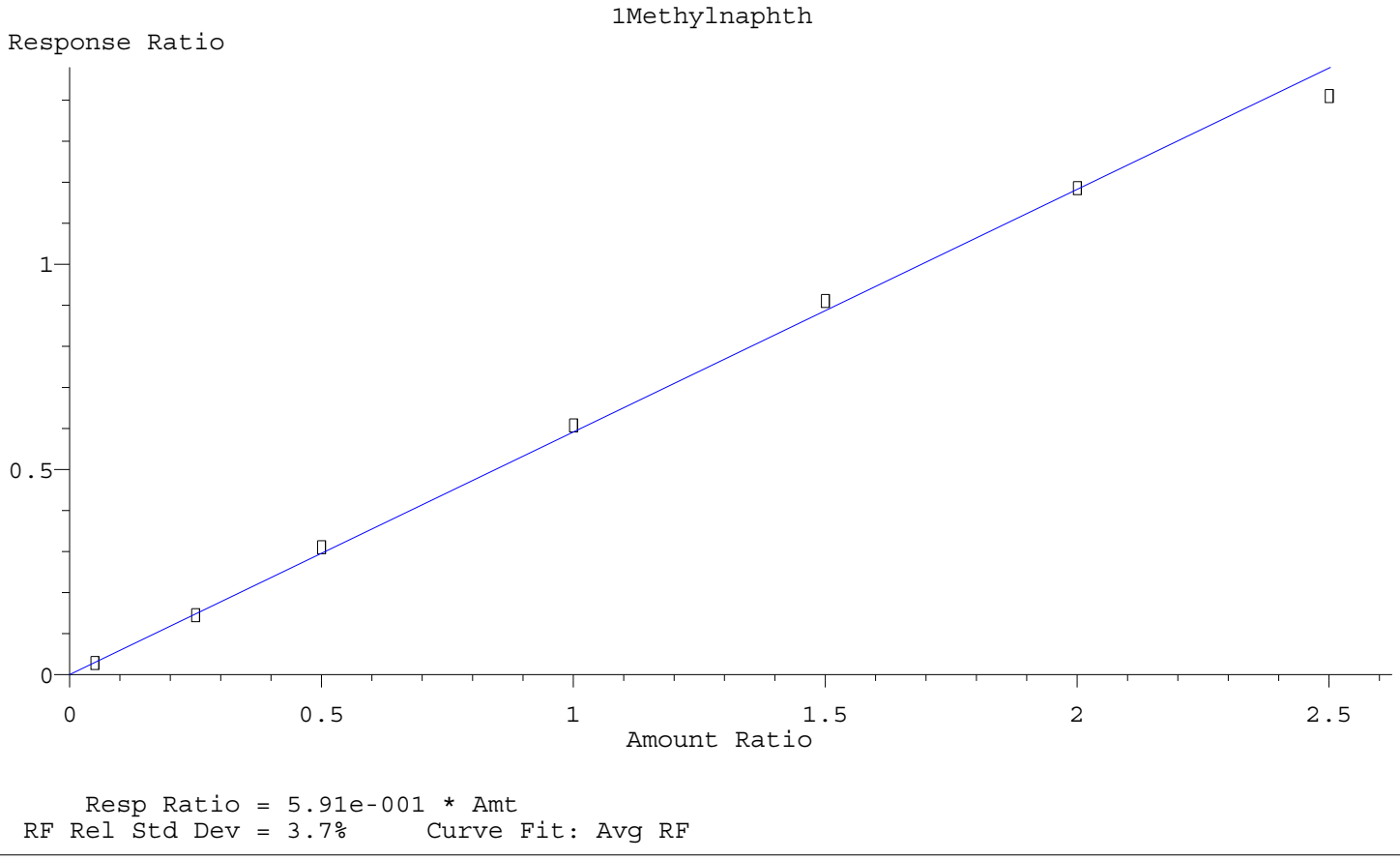
Resp Ratio = 1.52e-001 * Amt
RF Rel Std Dev = 2.5% Curve Fit: Avg RF



Resp Ratio = 2.50e-001 * Amt
RF Rel Std Dev = 7.4% Curve Fit: Avg RF

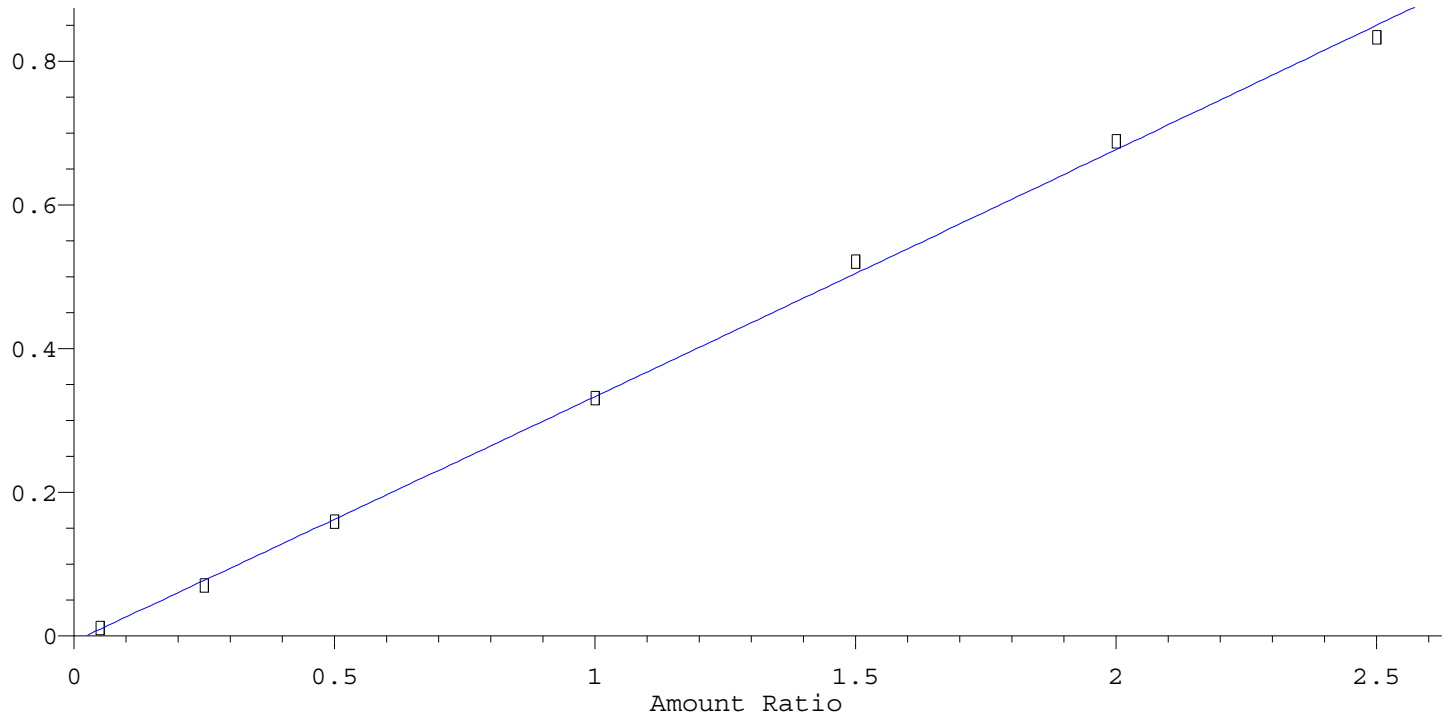


Resp Ratio = 5.70e-001 * Amt
RF Rel Std Dev = 3.0% Curve Fit: Avg RF



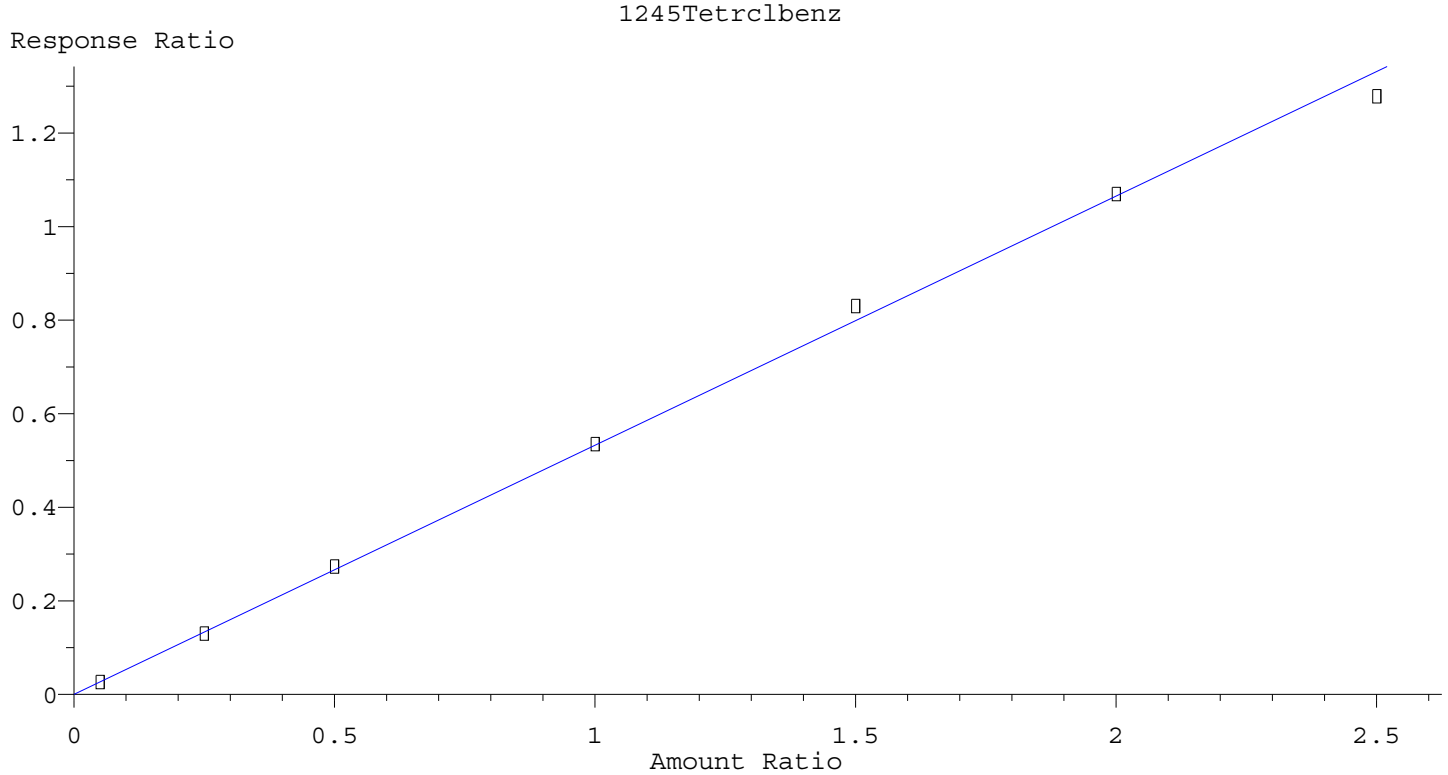
Resp Ratio = 5.91e-001 * Amt
RF Rel Std Dev = 3.7% Curve Fit: Avg RF

Hxclcycpentdi

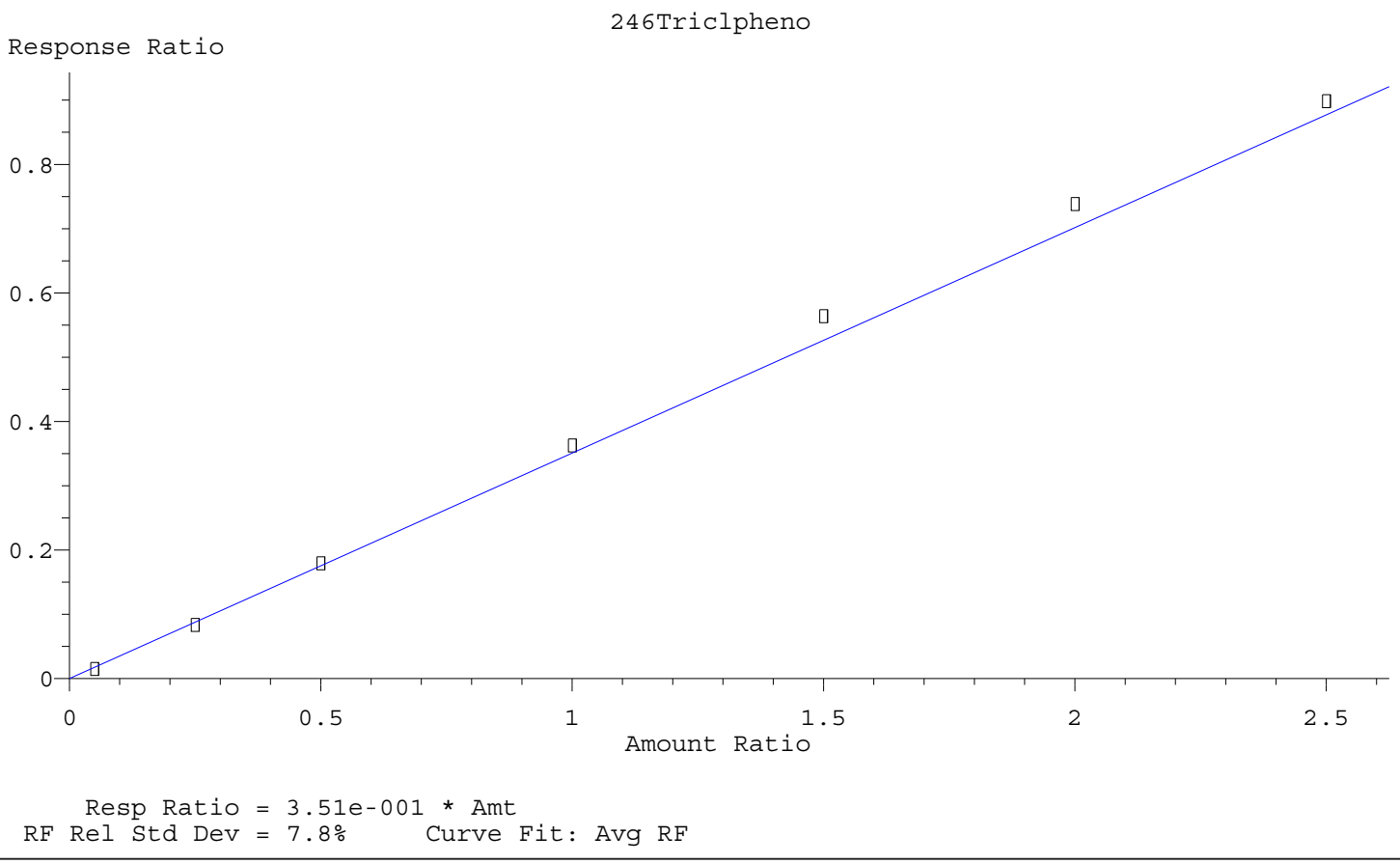


R = 1.71e-003 A*A + 3.39e-001 A - 7.49e-003
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a)

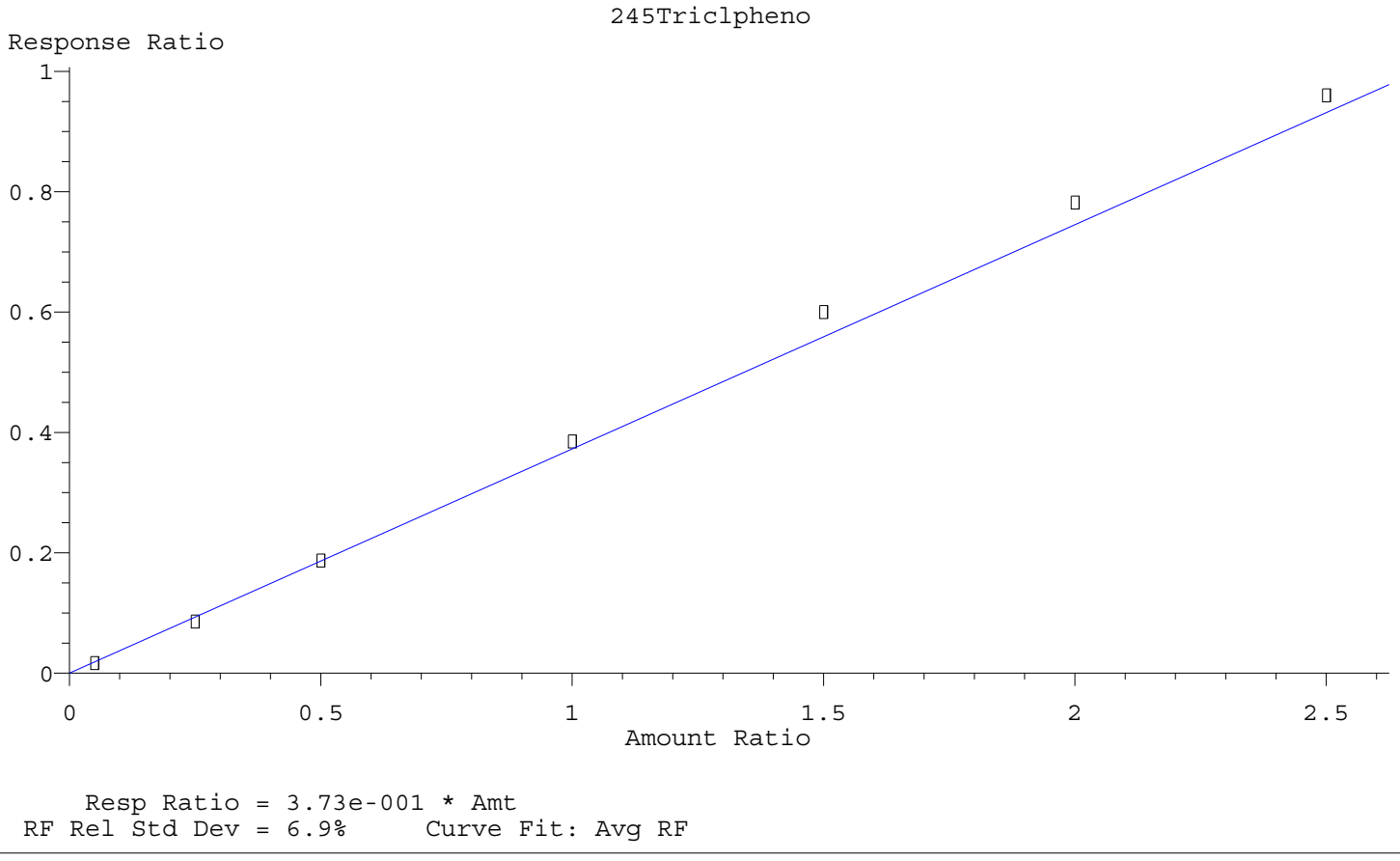
1245Tetrclbenz



Resp Ratio = 5.33e-001 * Amt
RF Rel Std Dev = 2.7% Curve Fit: Avg RF

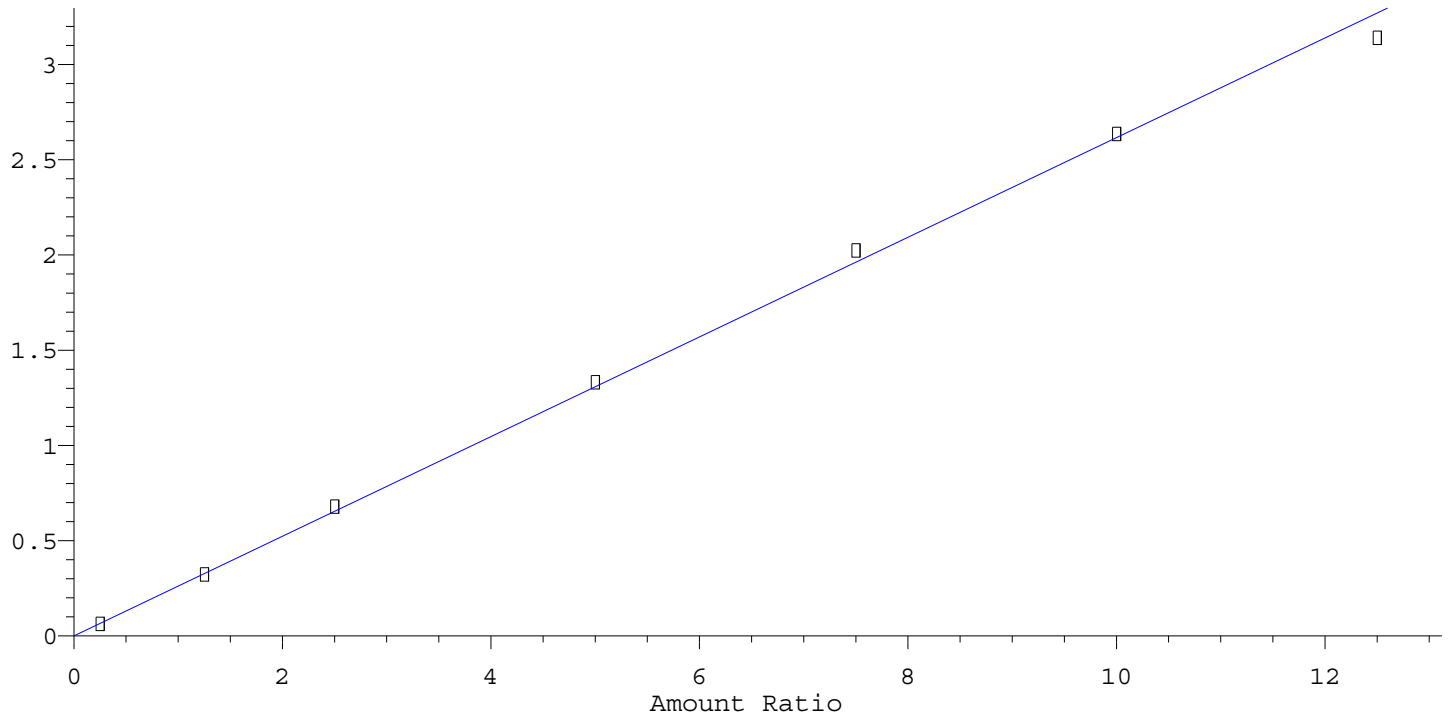


Resp Ratio = 3.51e-001 * Amt
RF Rel Std Dev = 7.8% Curve Fit: Avg RF



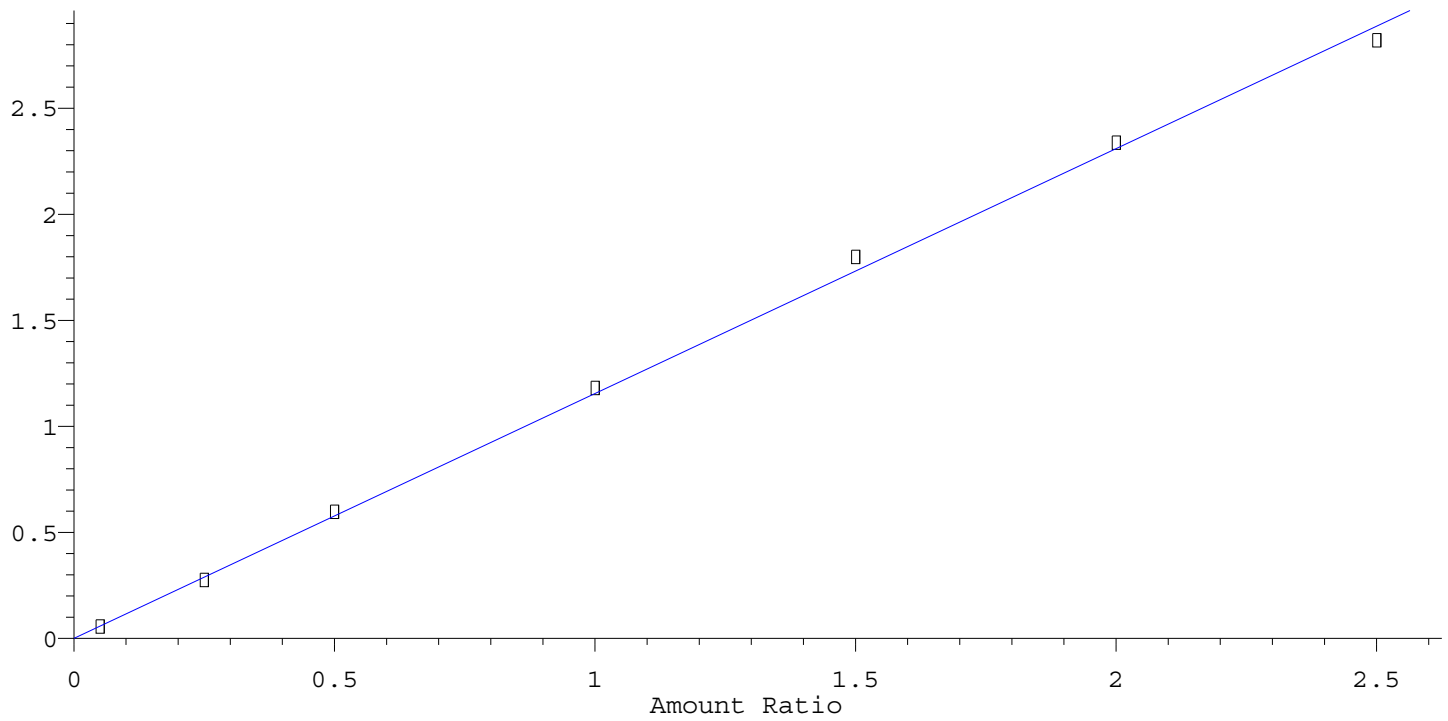
Resp Ratio = 3.73e-001 * Amt
RF Rel Std Dev = 6.9% Curve Fit: Avg RF

SURR2Flbiphenyl

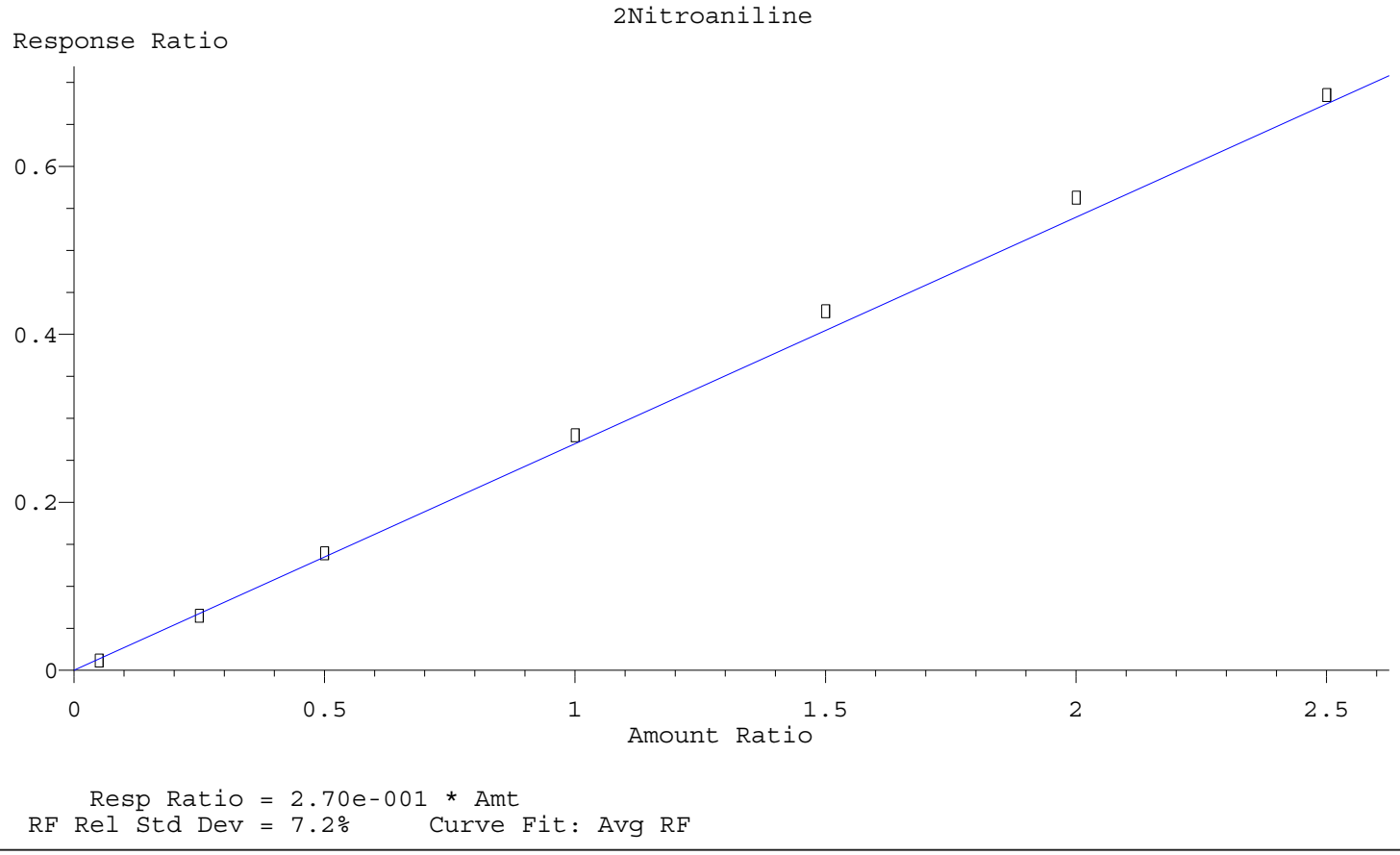


Resp Ratio = 2.62e-001 * Amt
RF Rel Std Dev = 3.2% Curve Fit: Avg RF

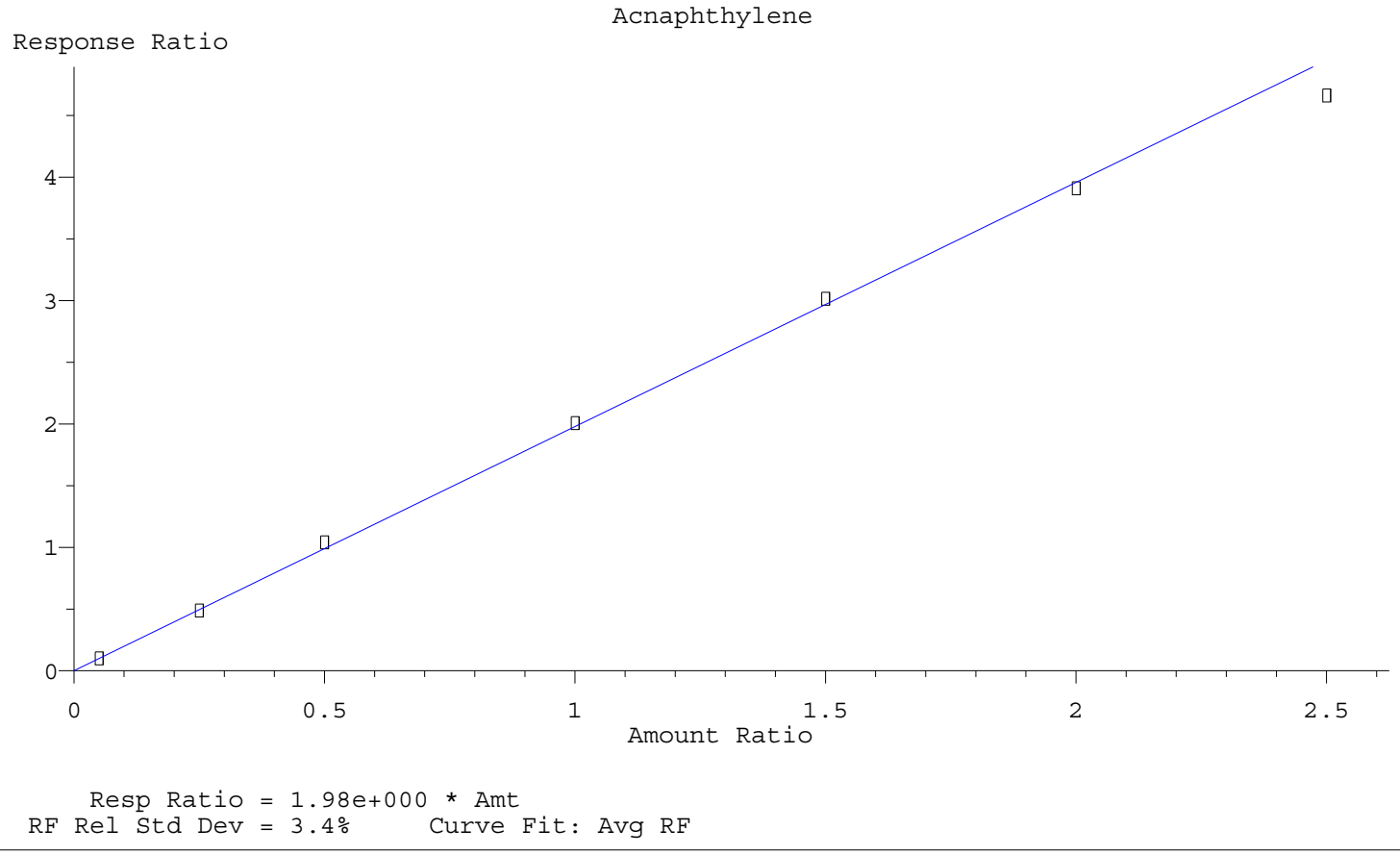
2Clnaphthalen



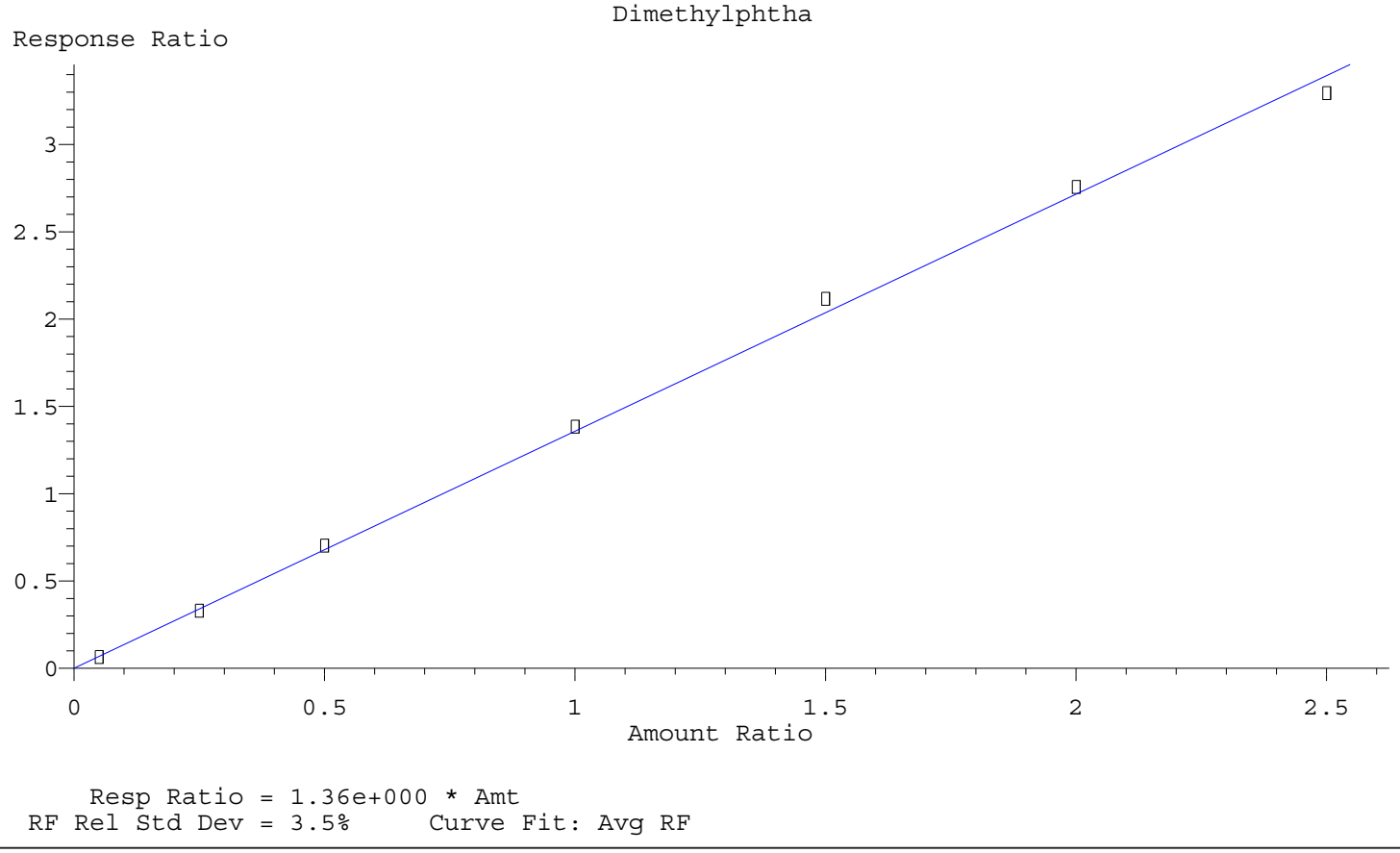
Resp Ratio = 1.16e+000 * Amt
RF Rel Std Dev = 3.4% Curve Fit: Avg RF



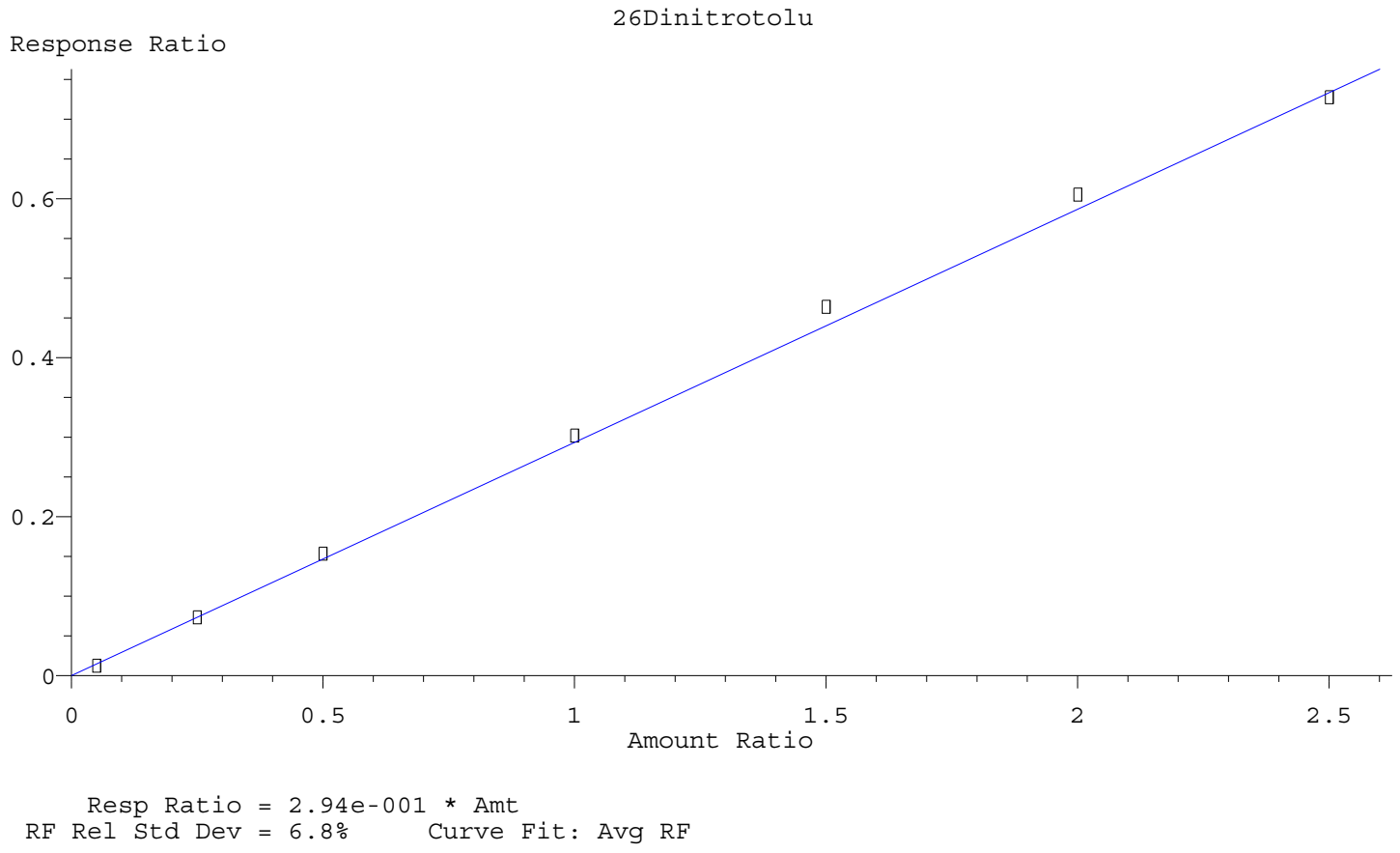
Resp Ratio = 2.70e-001 * Amt
RF Rel Std Dev = 7.2% Curve Fit: Avg RF



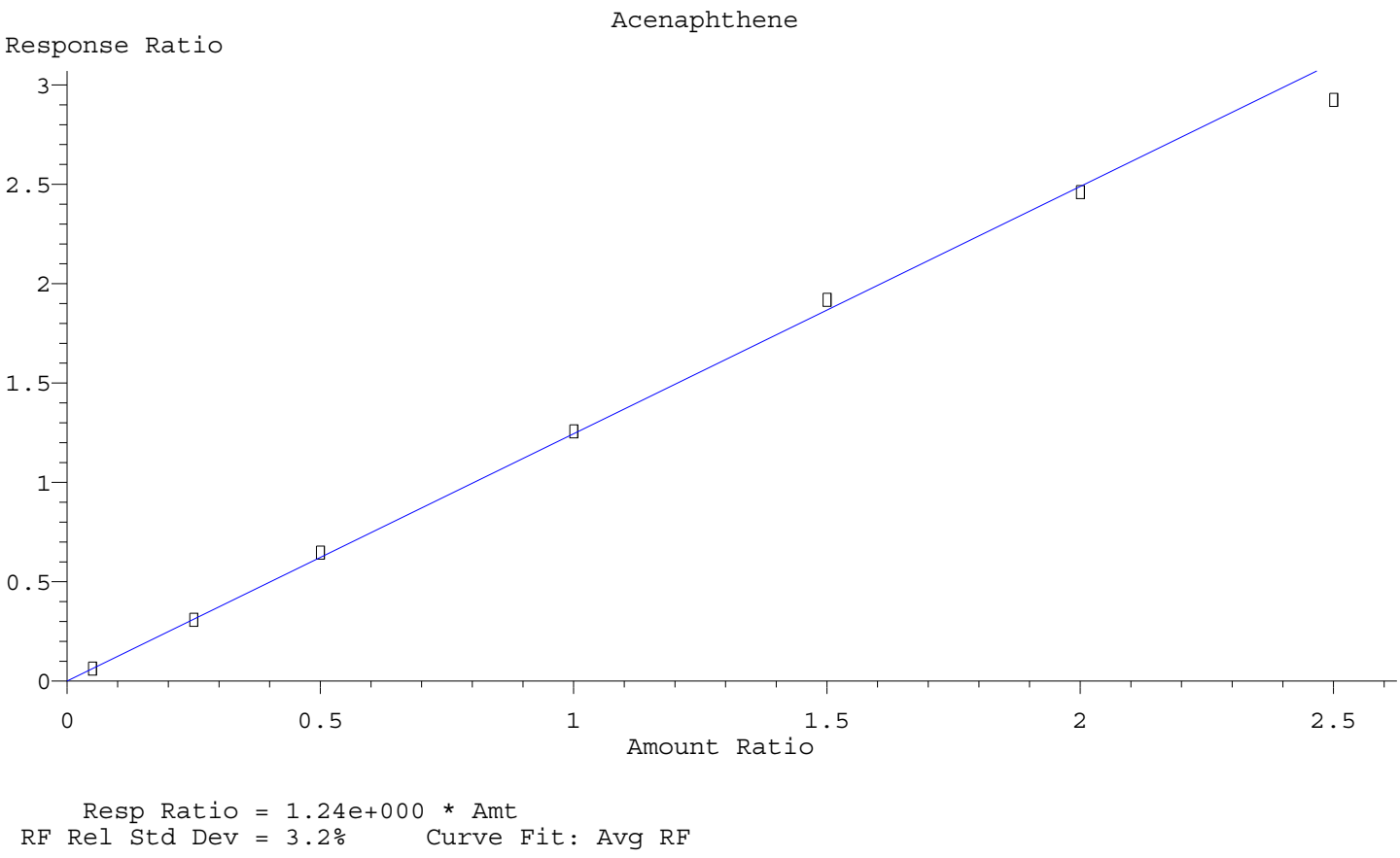
Resp Ratio = 1.98e+000 * Amt
RF Rel Std Dev = 3.4% Curve Fit: Avg RF



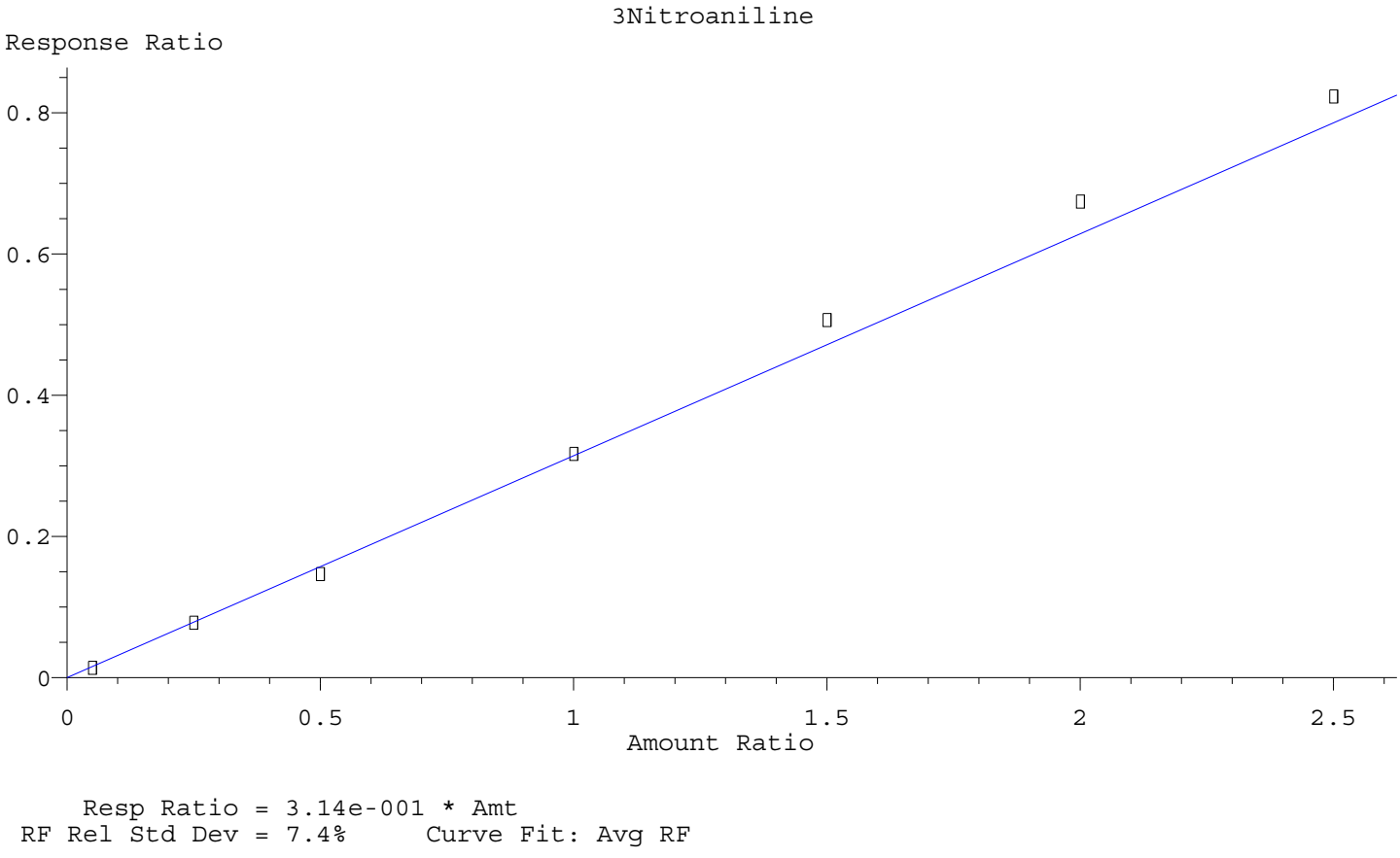
Resp Ratio = 1.36e+000 * Amt
RF Rel Std Dev = 3.5% Curve Fit: Avg RF



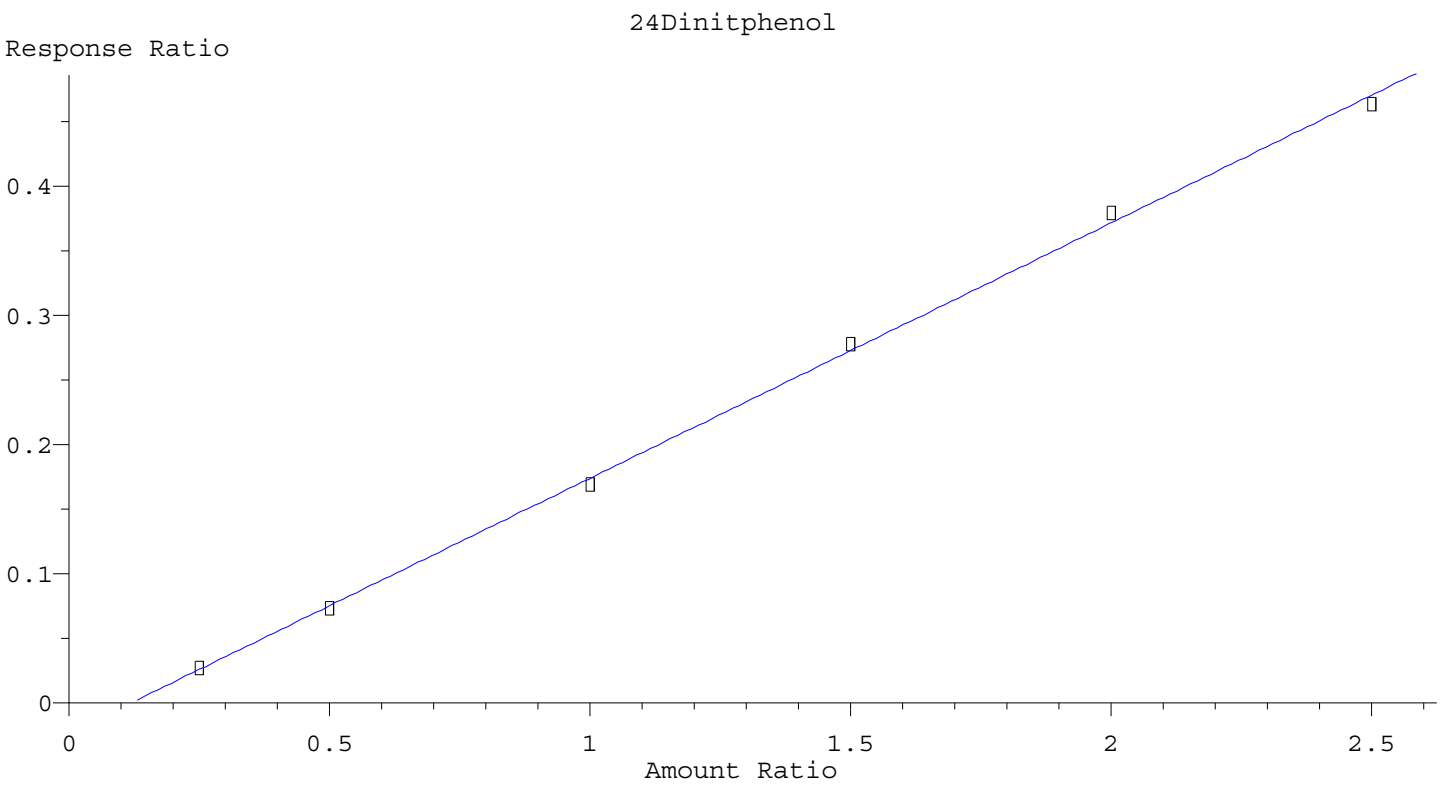
Resp Ratio = 2.94e-001 * Amt
RF Rel Std Dev = 6.8% Curve Fit: Avg RF



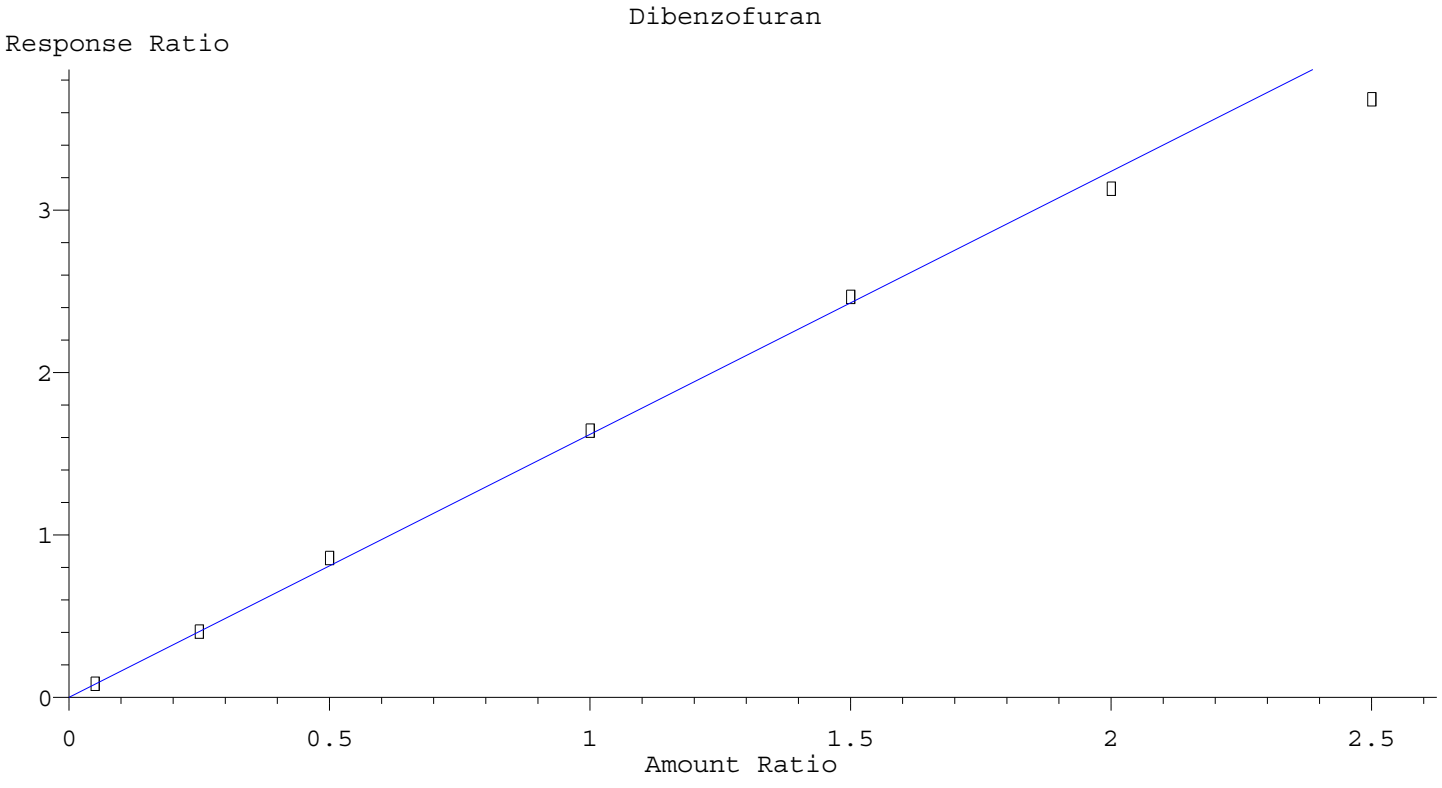
Resp Ratio = 1.24e+000 * Amt
RF Rel Std Dev = 3.2% Curve Fit: Avg RF



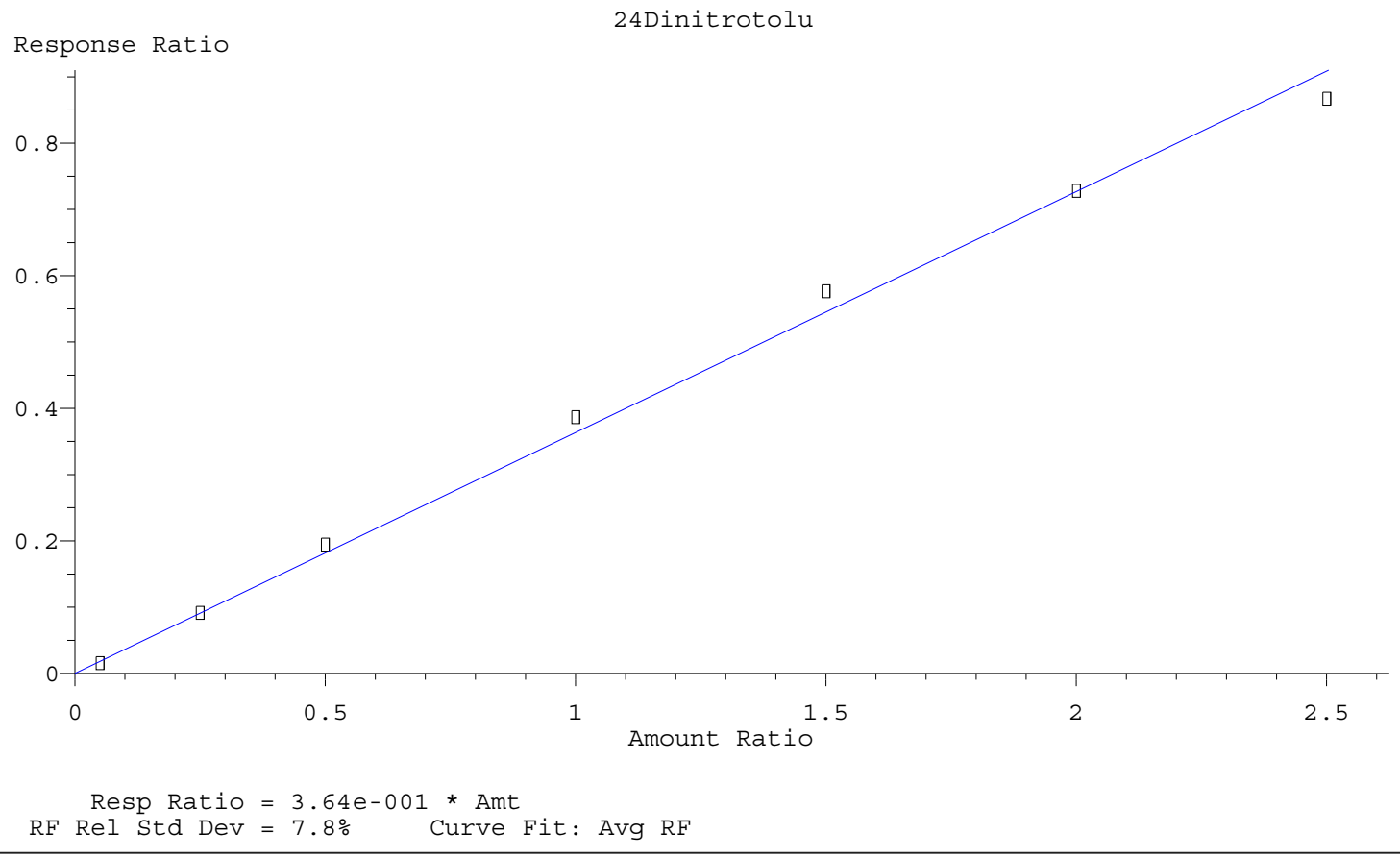
Resp Ratio = 3.14e-001 * Amt
RF Rel Std Dev = 7.4% Curve Fit: Avg RF



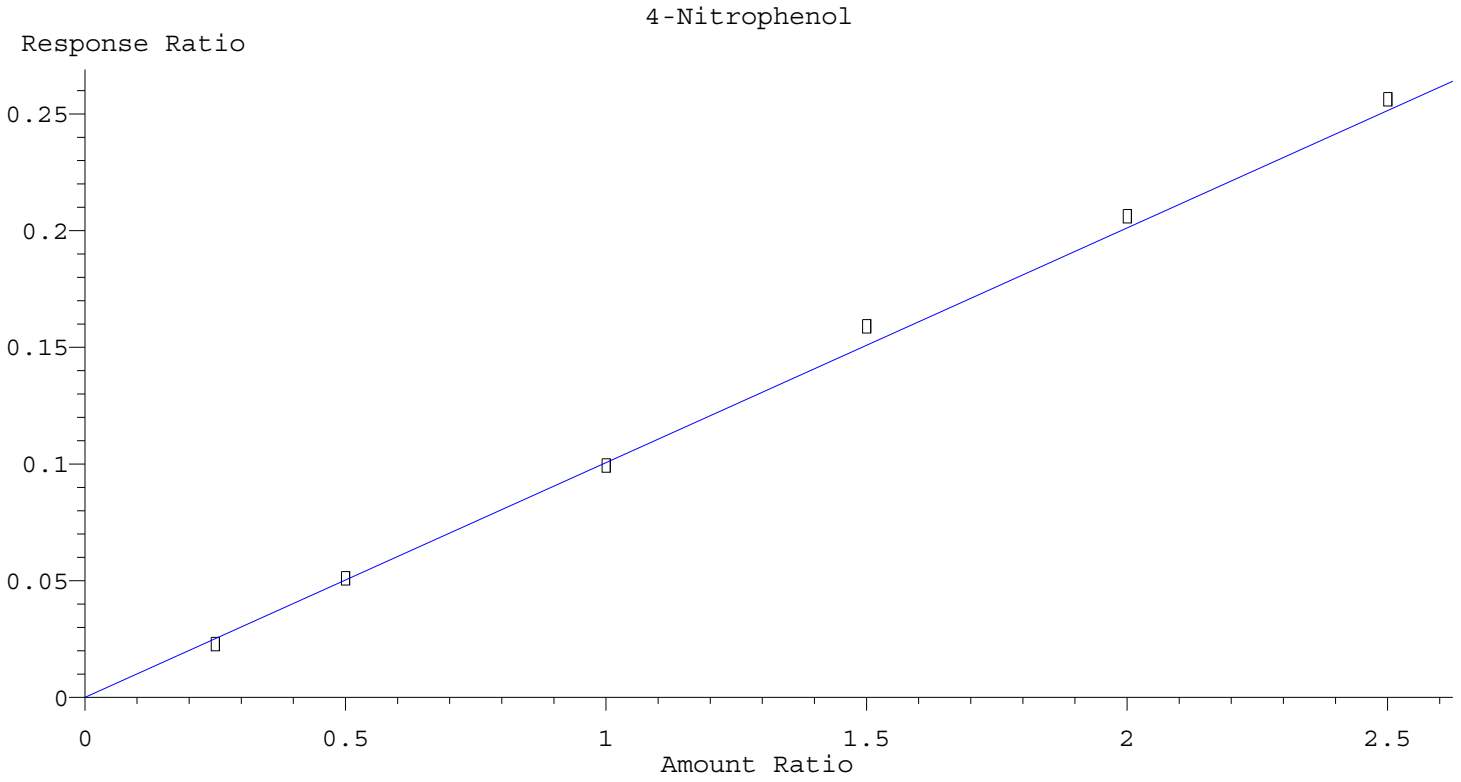
R = 1.18e-004 A*A + 1.97e-001 A - 2.34e-002
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a)



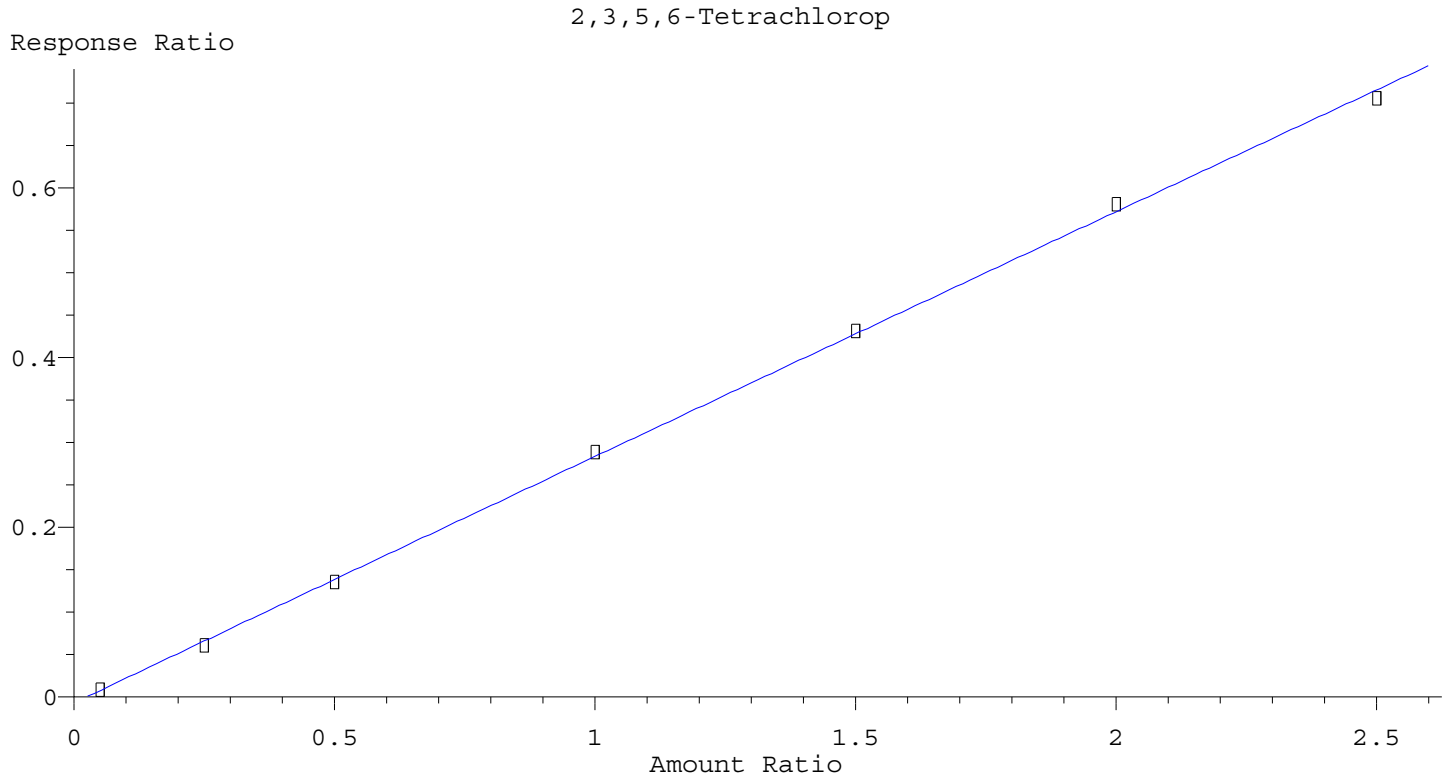
Resp Ratio = 1.62e+000 * Amt
RF Rel Std Dev = 4.9% Curve Fit: Avg RF



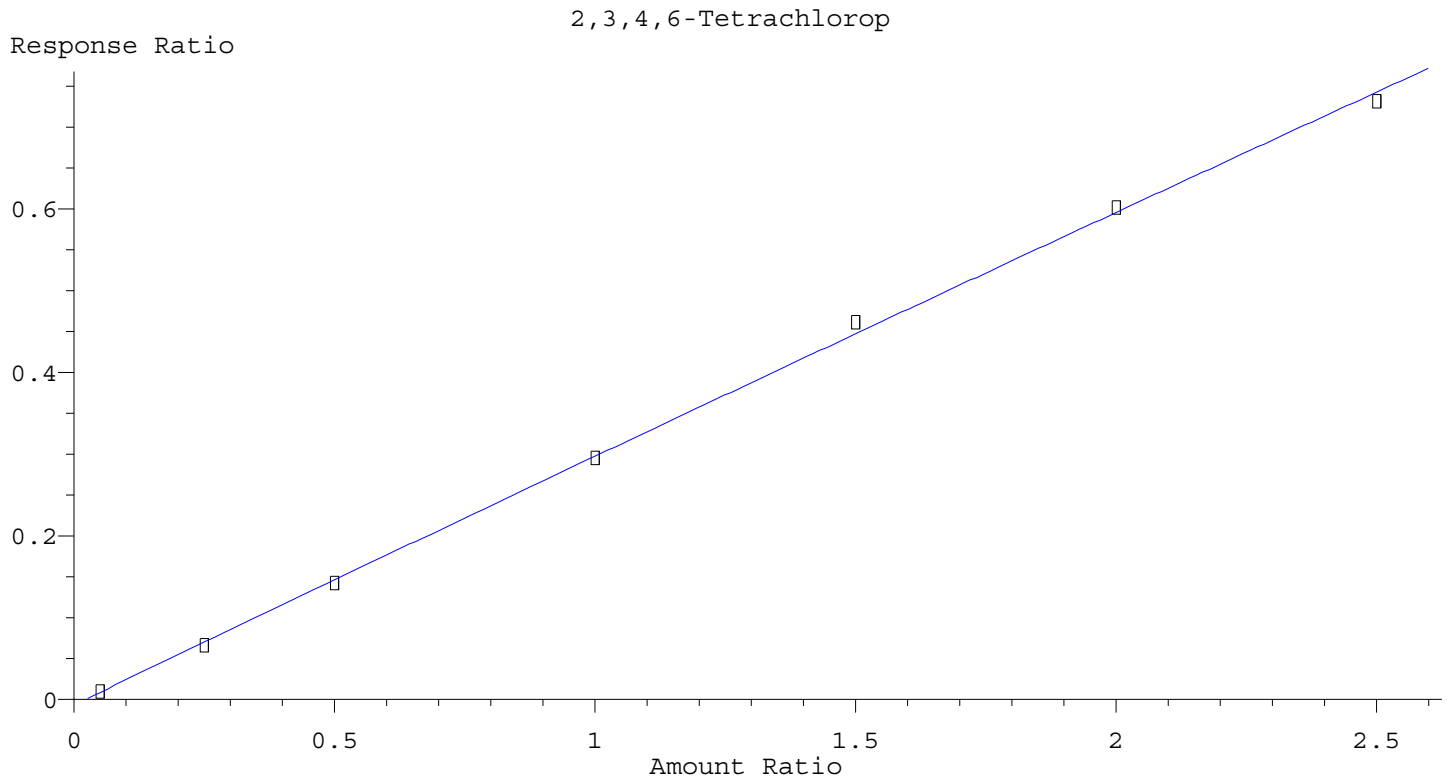
Resp Ratio = 3.64e-001 * Amt
RF Rel Std Dev = 7.8% Curve Fit: Avg RF



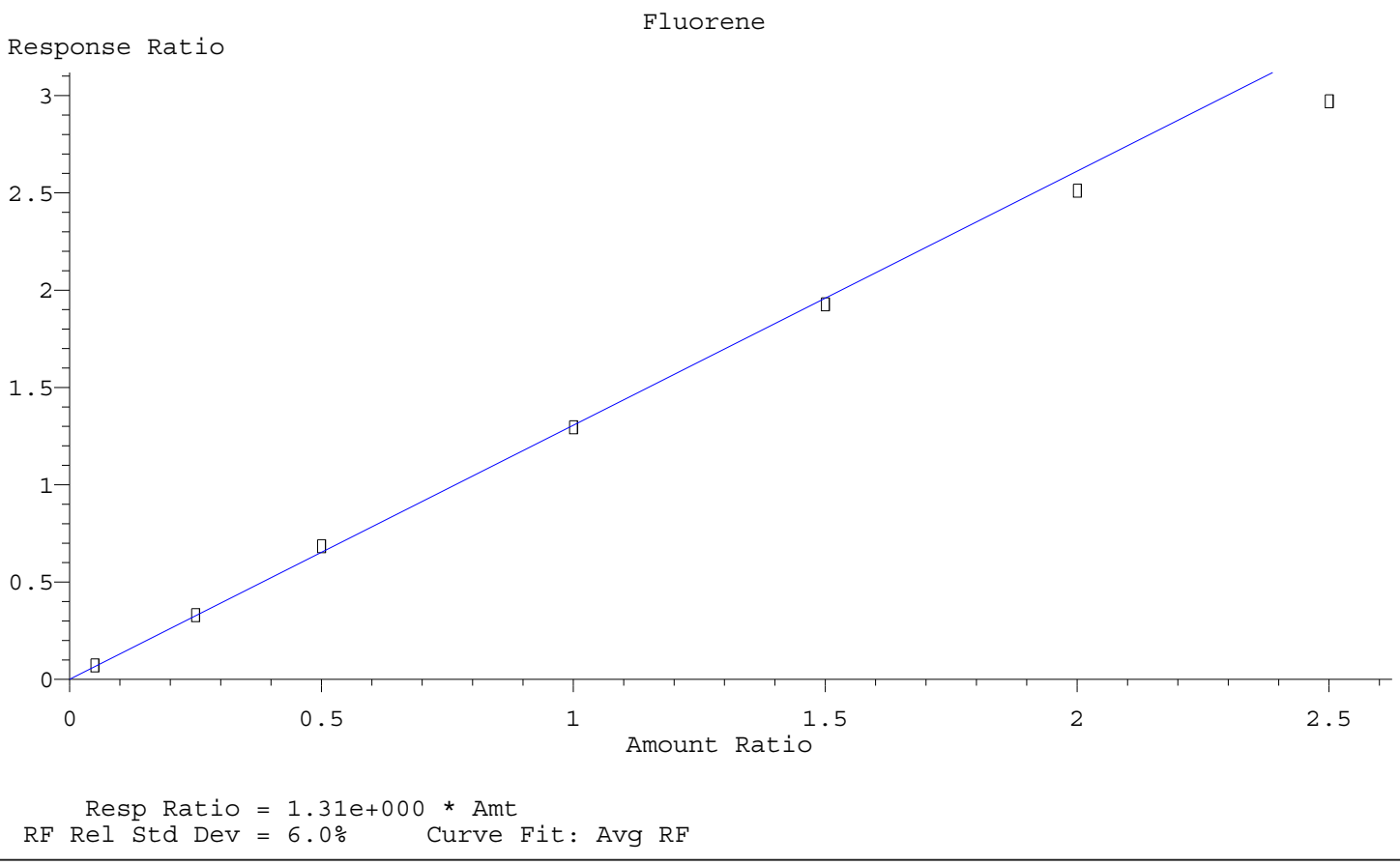
Resp Ratio = 1.01e-001 * Amt
RF Rel Std Dev = 5.0% Curve Fit: Avg RF



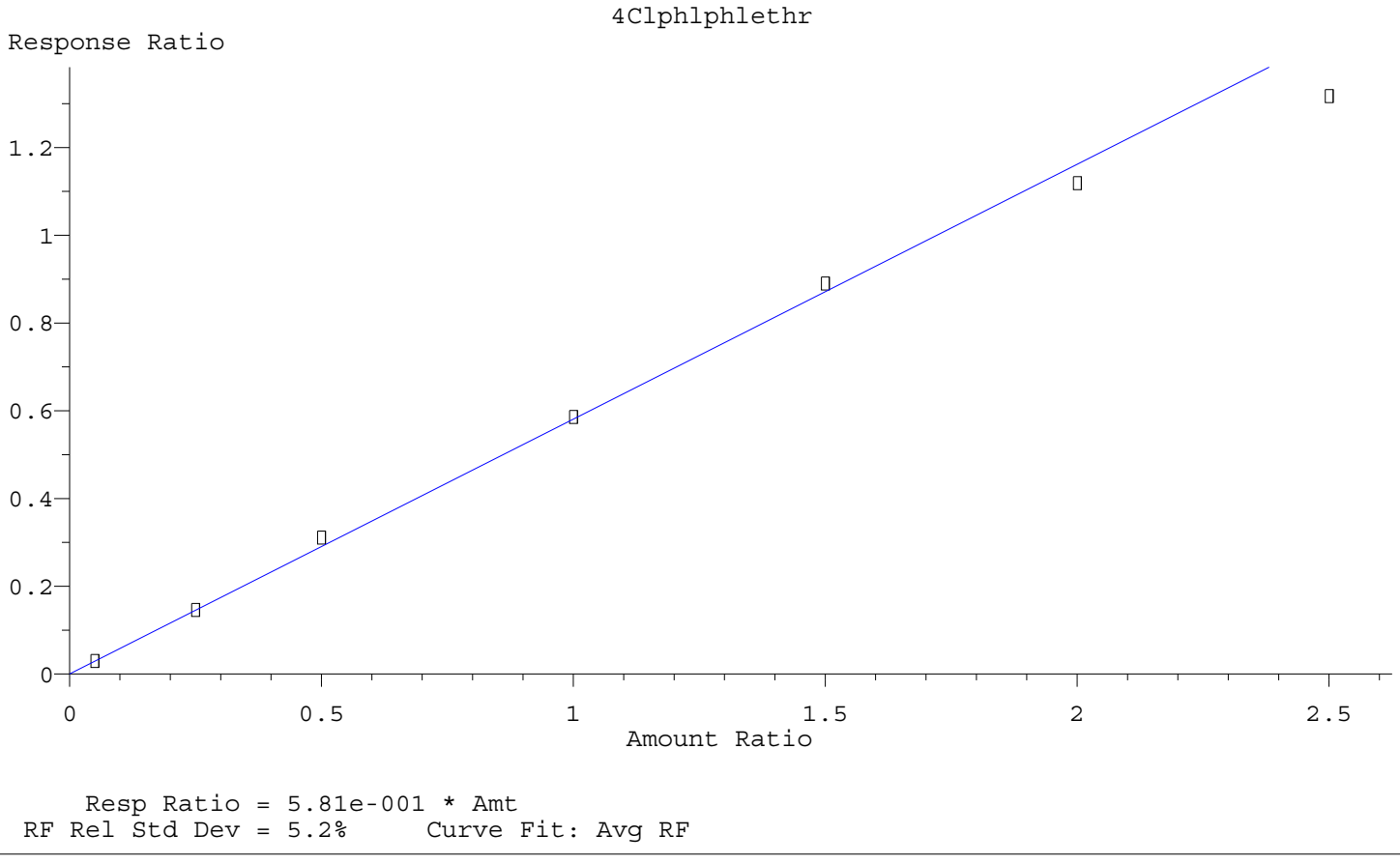
R = -9.65e-004 A*A + 2.91e-001 A - 7.00e-003
Coef of Det (r^2) = 1.000 Curve Fit: Quadratic w(1/a)



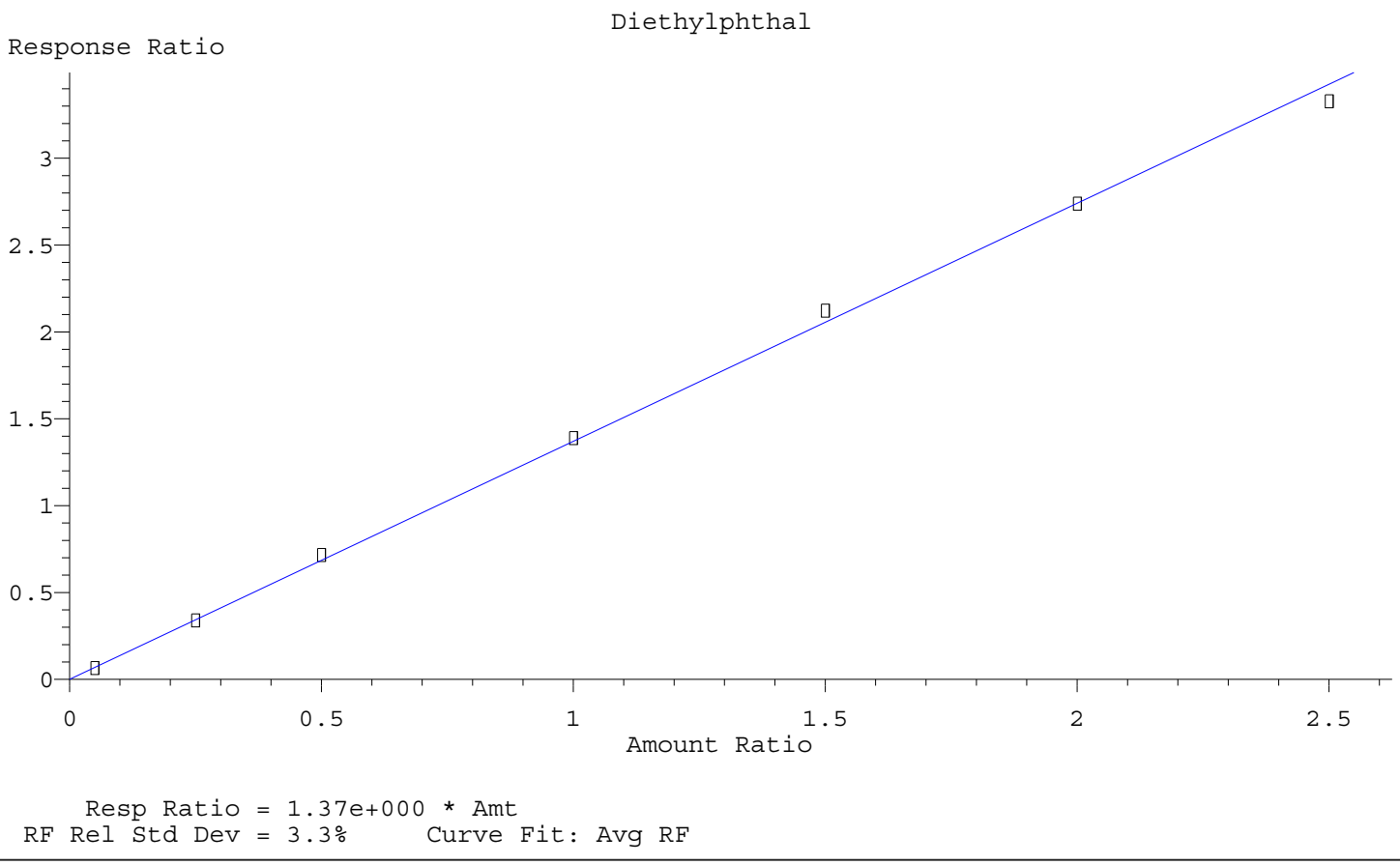
R = -2.82e-003 A*A + 3.07e-001 A - 6.64e-003
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a)



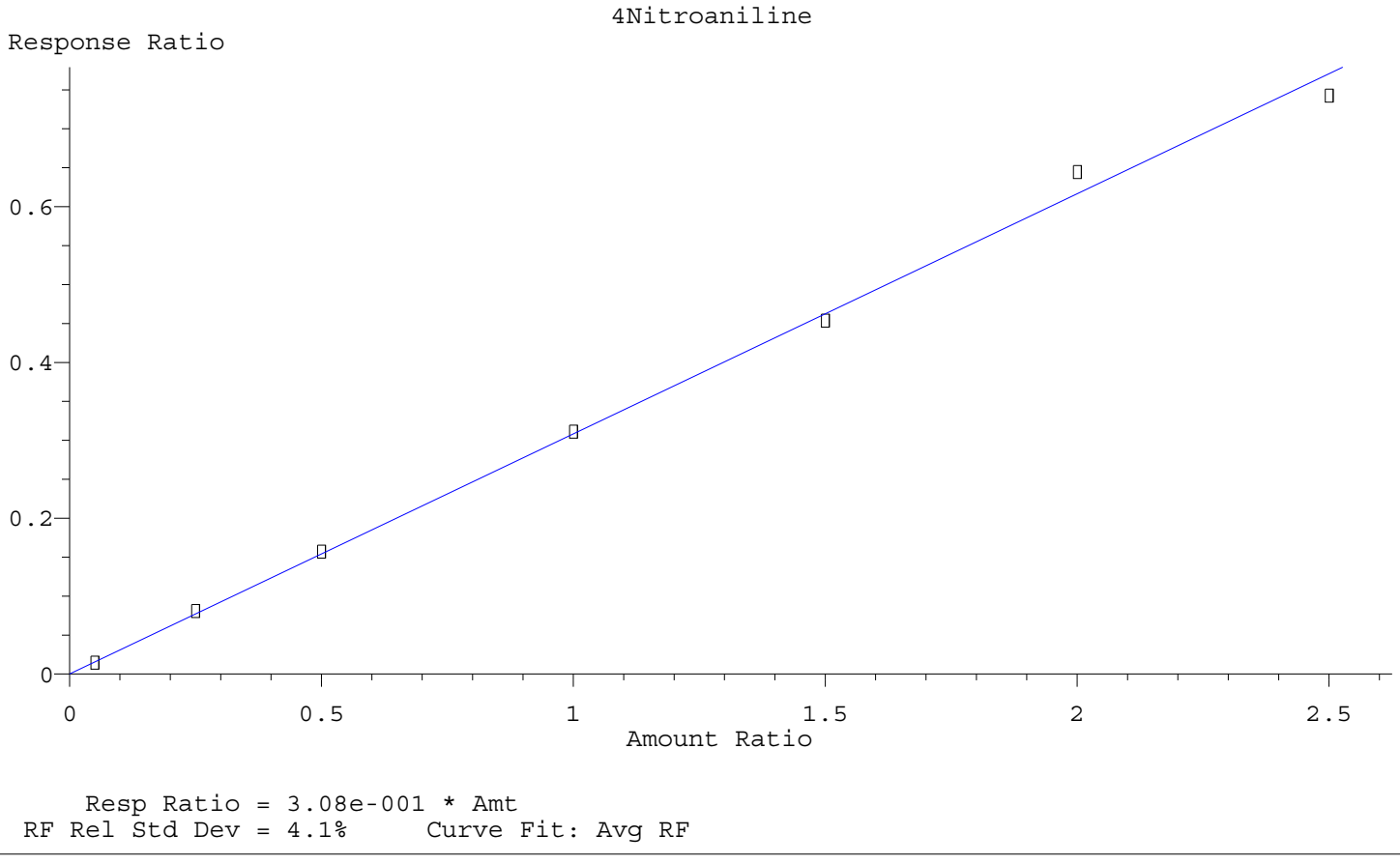
Resp Ratio = 1.31e+000 * Amt
RF Rel Std Dev = 6.0% Curve Fit: Avg RF



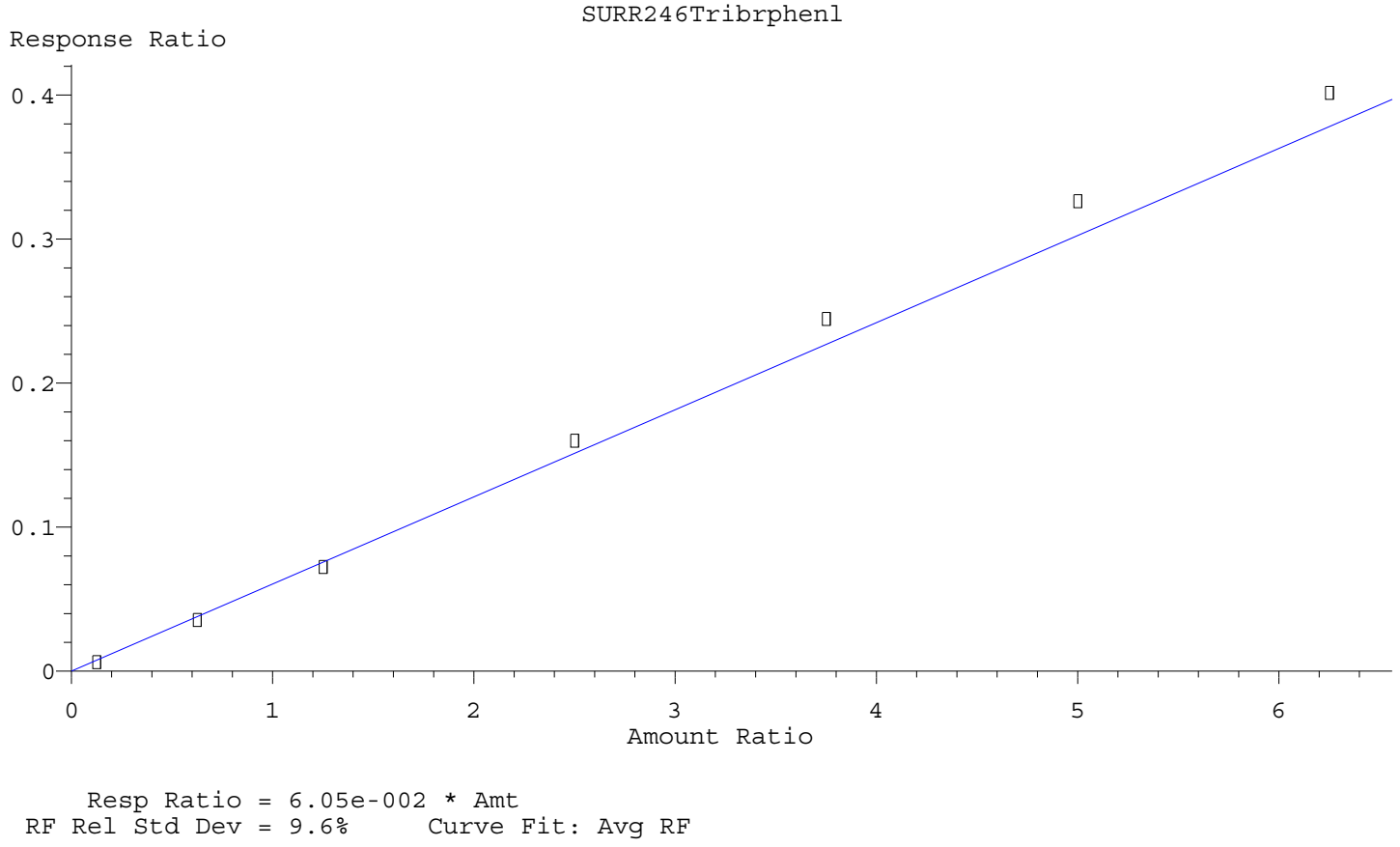
Resp Ratio = 5.81e-001 * Amt
RF Rel Std Dev = 5.2% Curve Fit: Avg RF



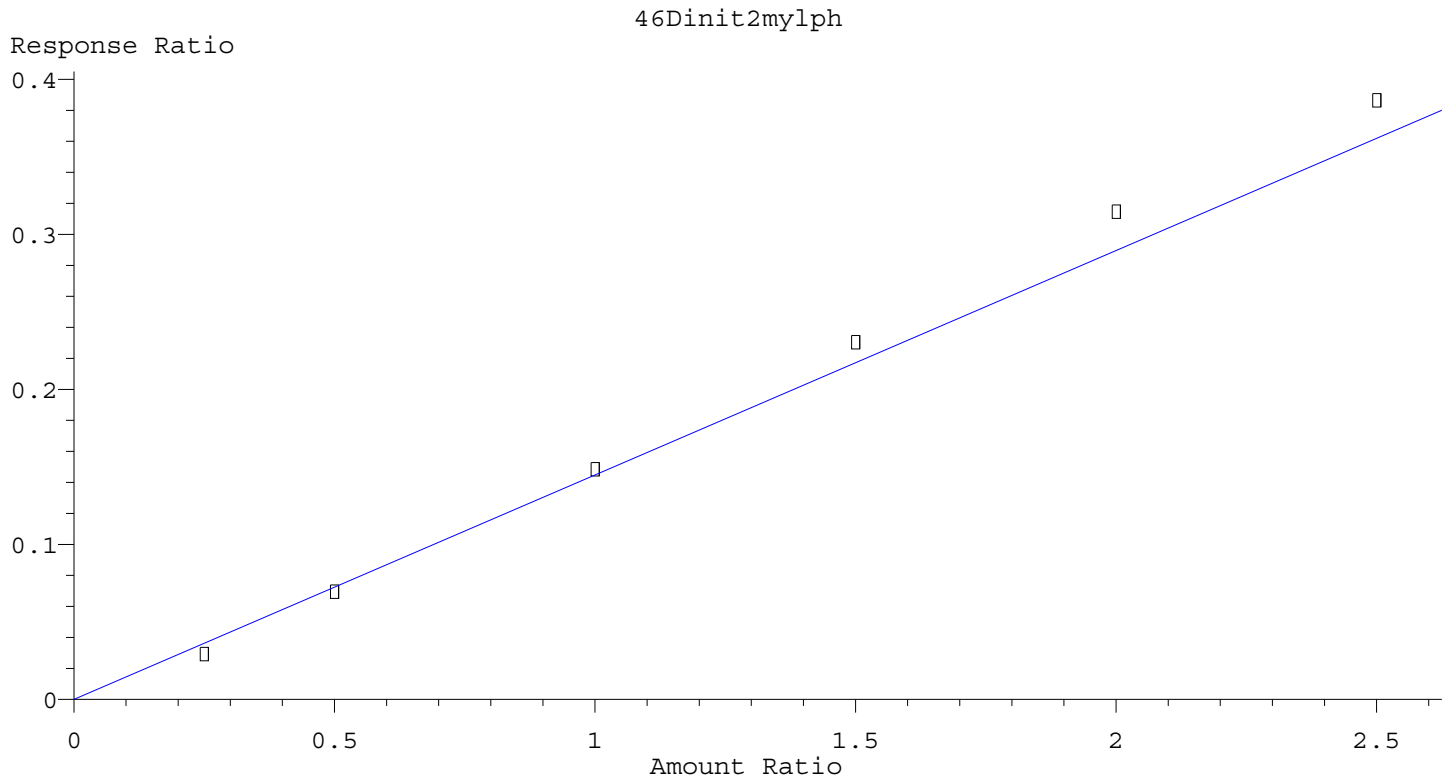
Resp Ratio = 1.37e+000 * Amt
RF Rel Std Dev = 3.3% Curve Fit: Avg RF



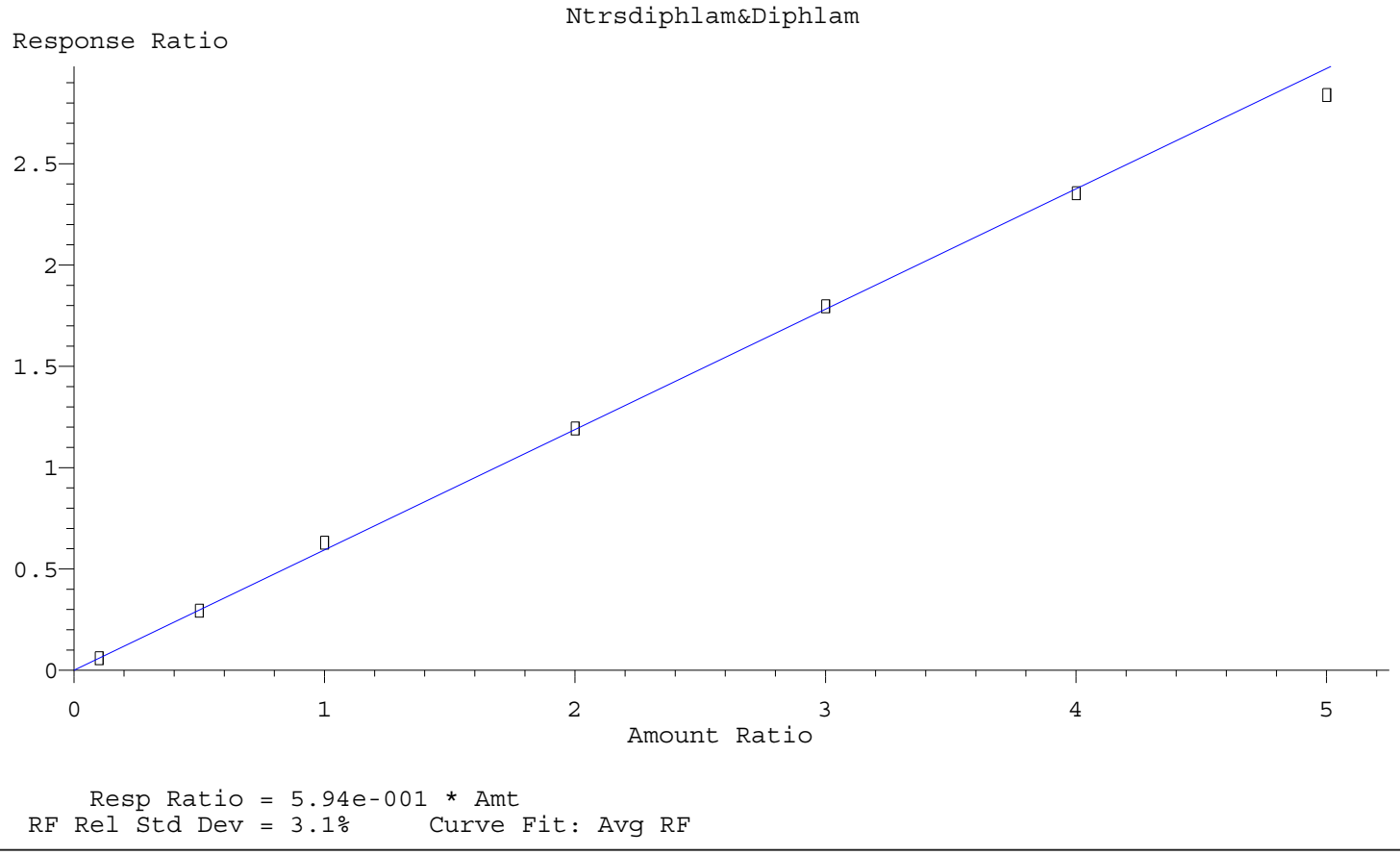
Resp Ratio = 3.08e-001 * Amt
RF Rel Std Dev = 4.1% Curve Fit: Avg RF



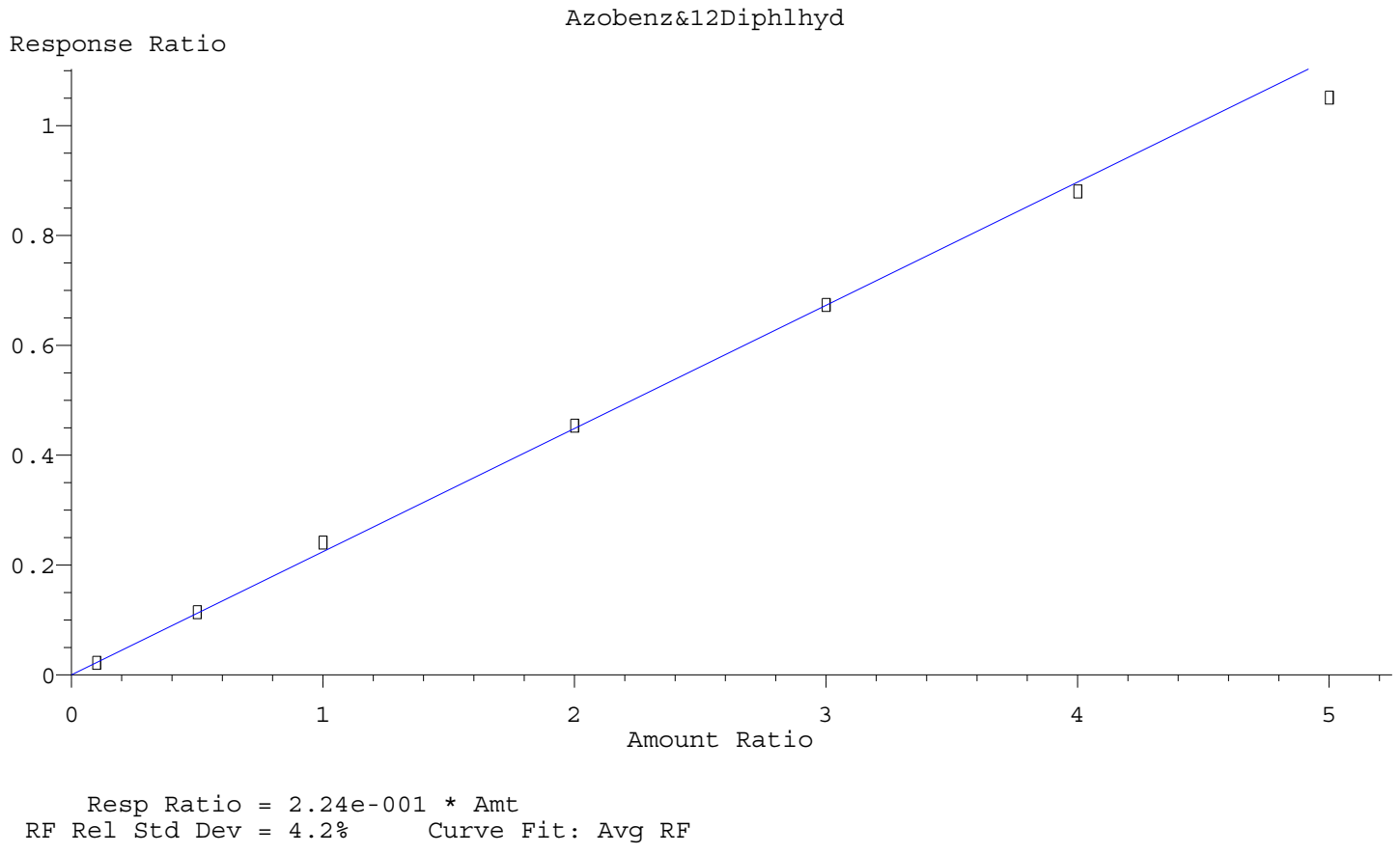
Resp Ratio = 6.05e-002 * Amt
RF Rel Std Dev = 9.6% Curve Fit: Avg RF



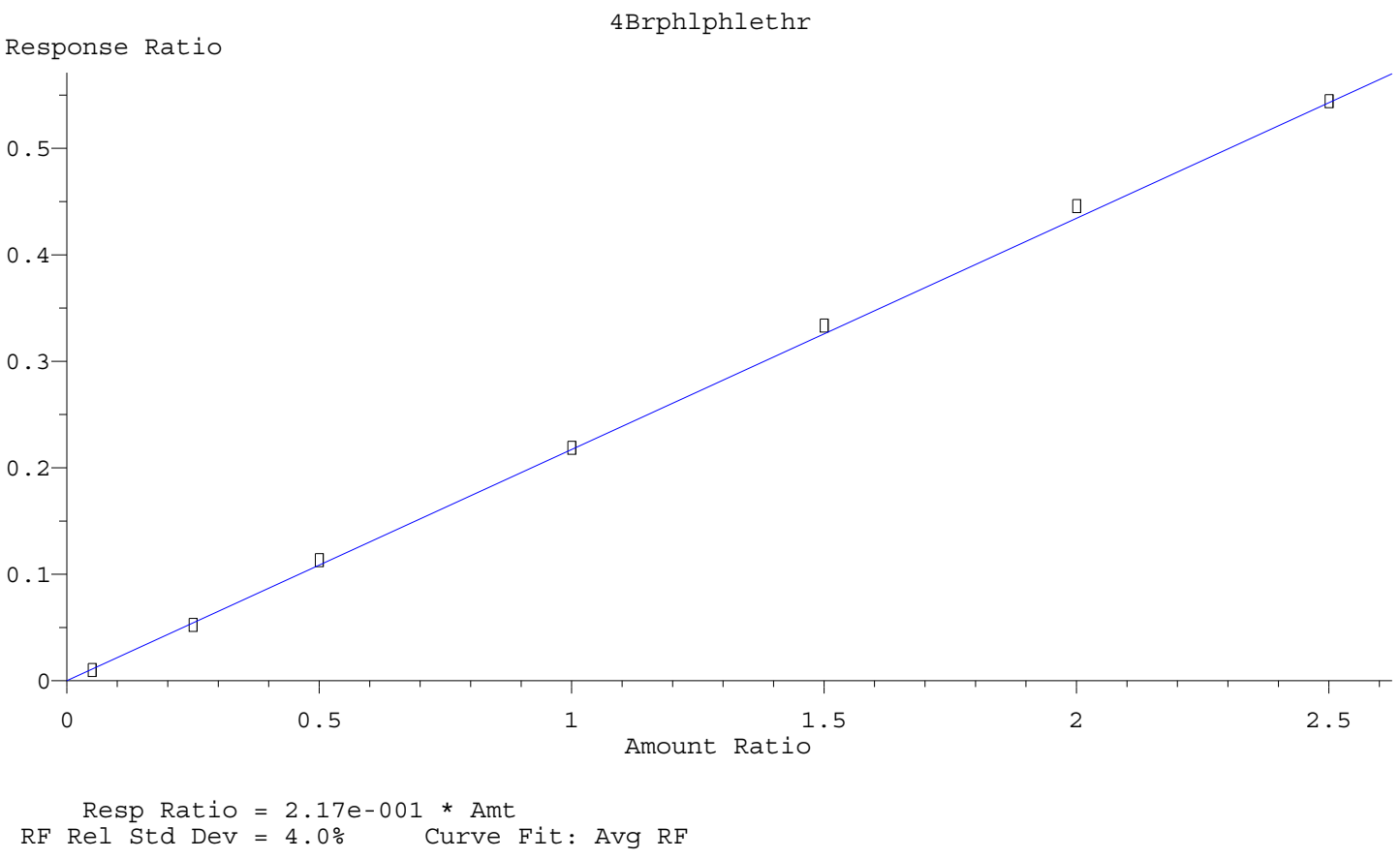
Resp Ratio = 1.45e-001 * Amt
RF Rel Std Dev = 10.5% Curve Fit: Avg RF



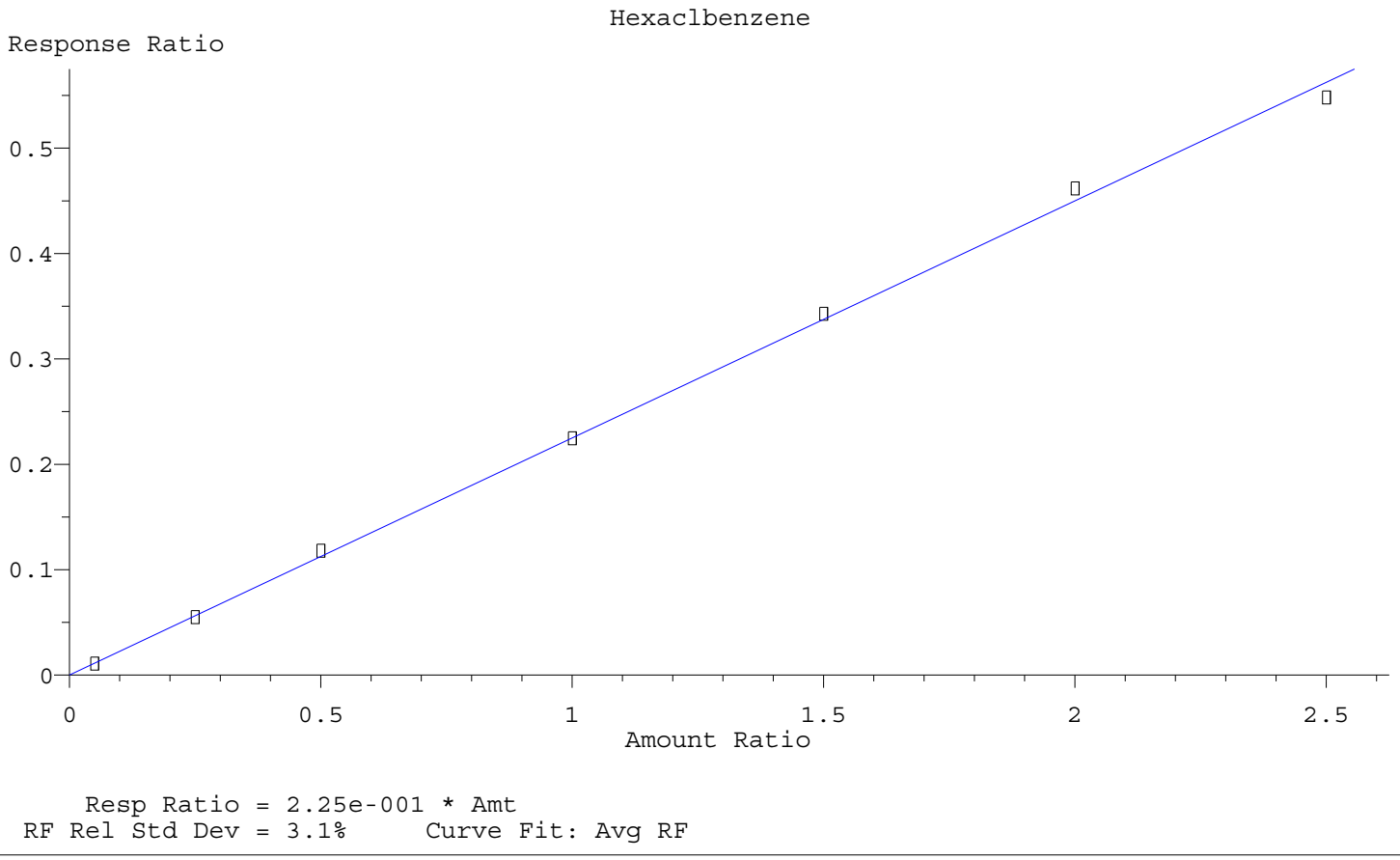
Resp Ratio = 5.94e-001 * Amt
RF Rel Std Dev = 3.1% Curve Fit: Avg RF



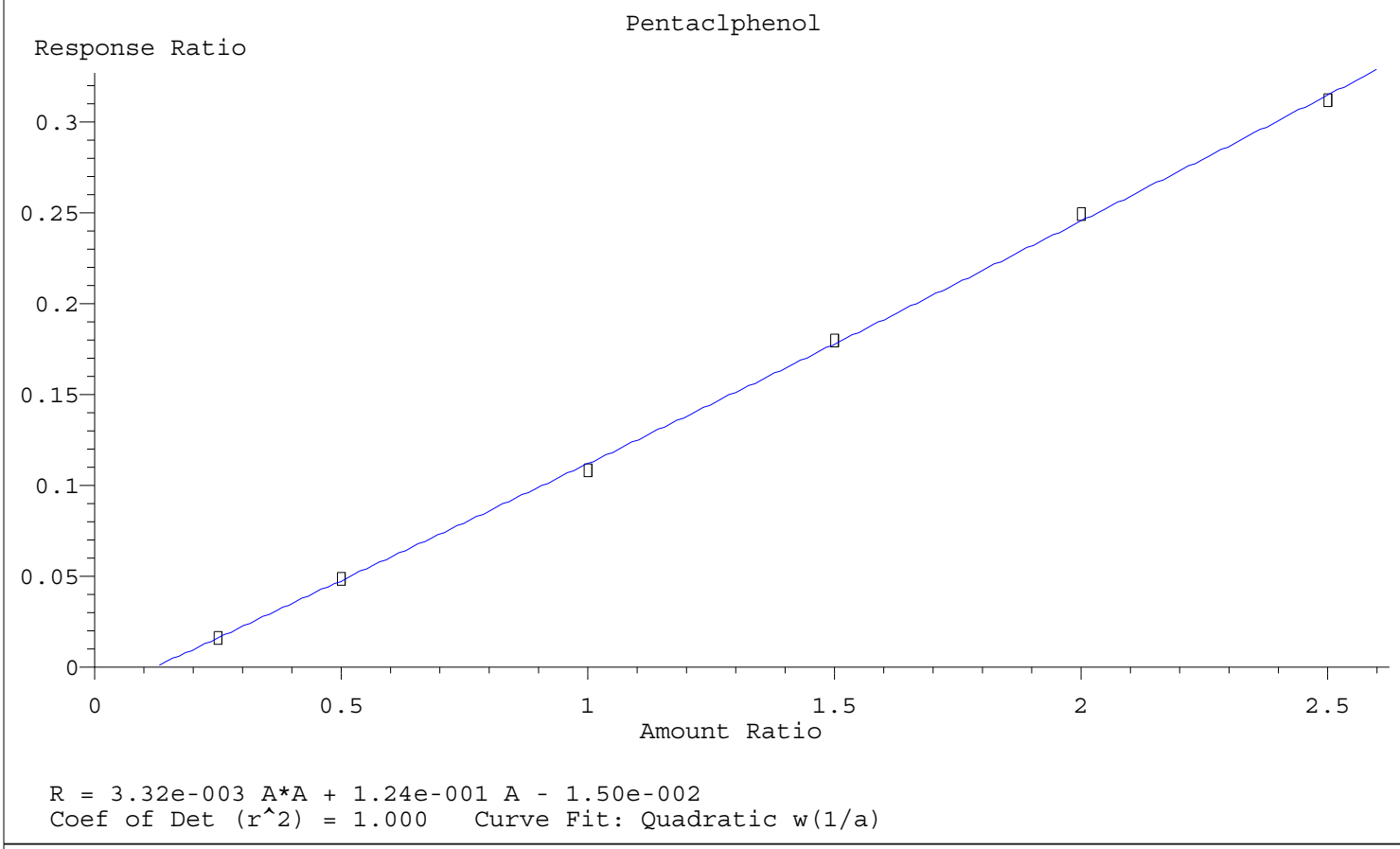
Resp Ratio = 2.24e-001 * Amt
RF Rel Std Dev = 4.2% Curve Fit: Avg RF



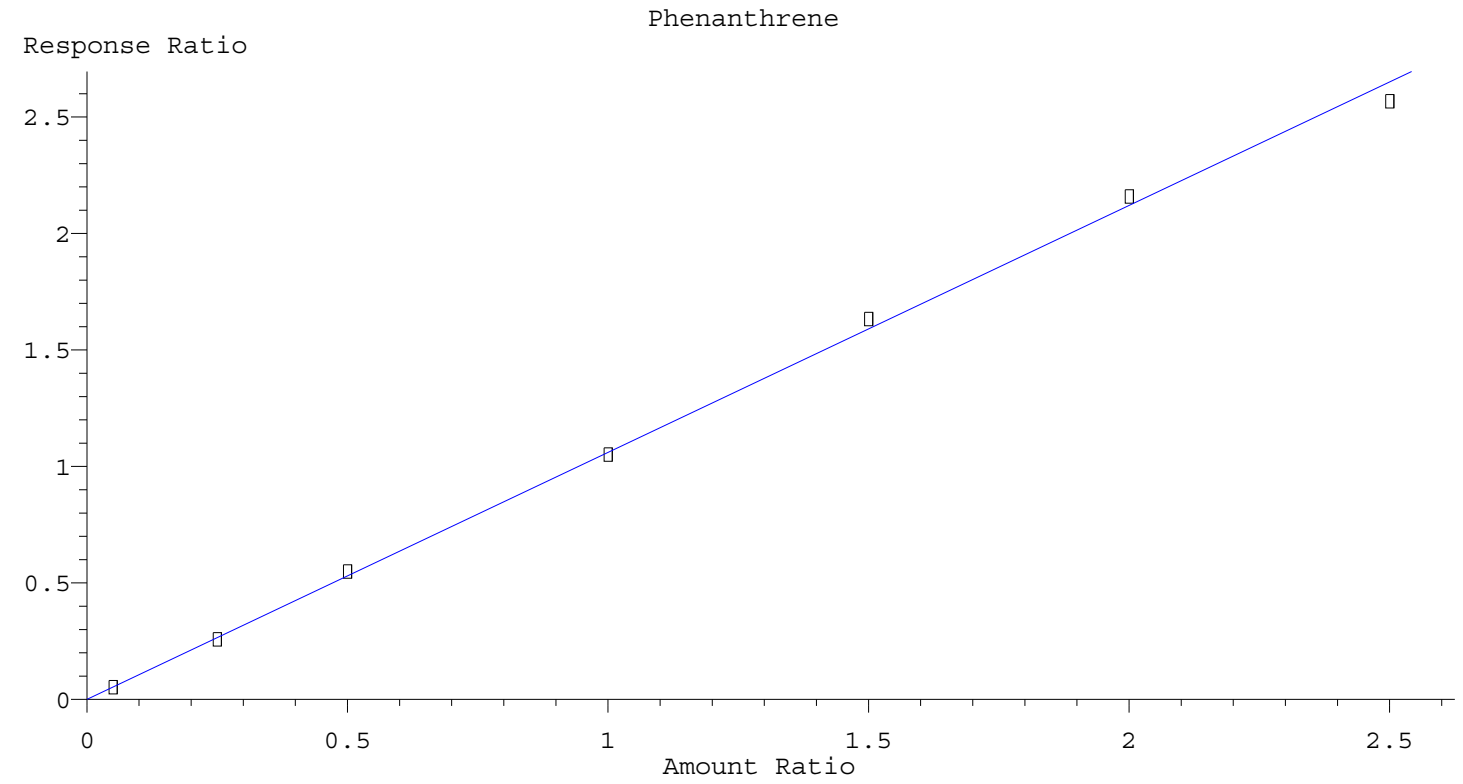
Resp Ratio = 2.17e-001 * Amt
RF Rel Std Dev = 4.0% Curve Fit: Avg RF



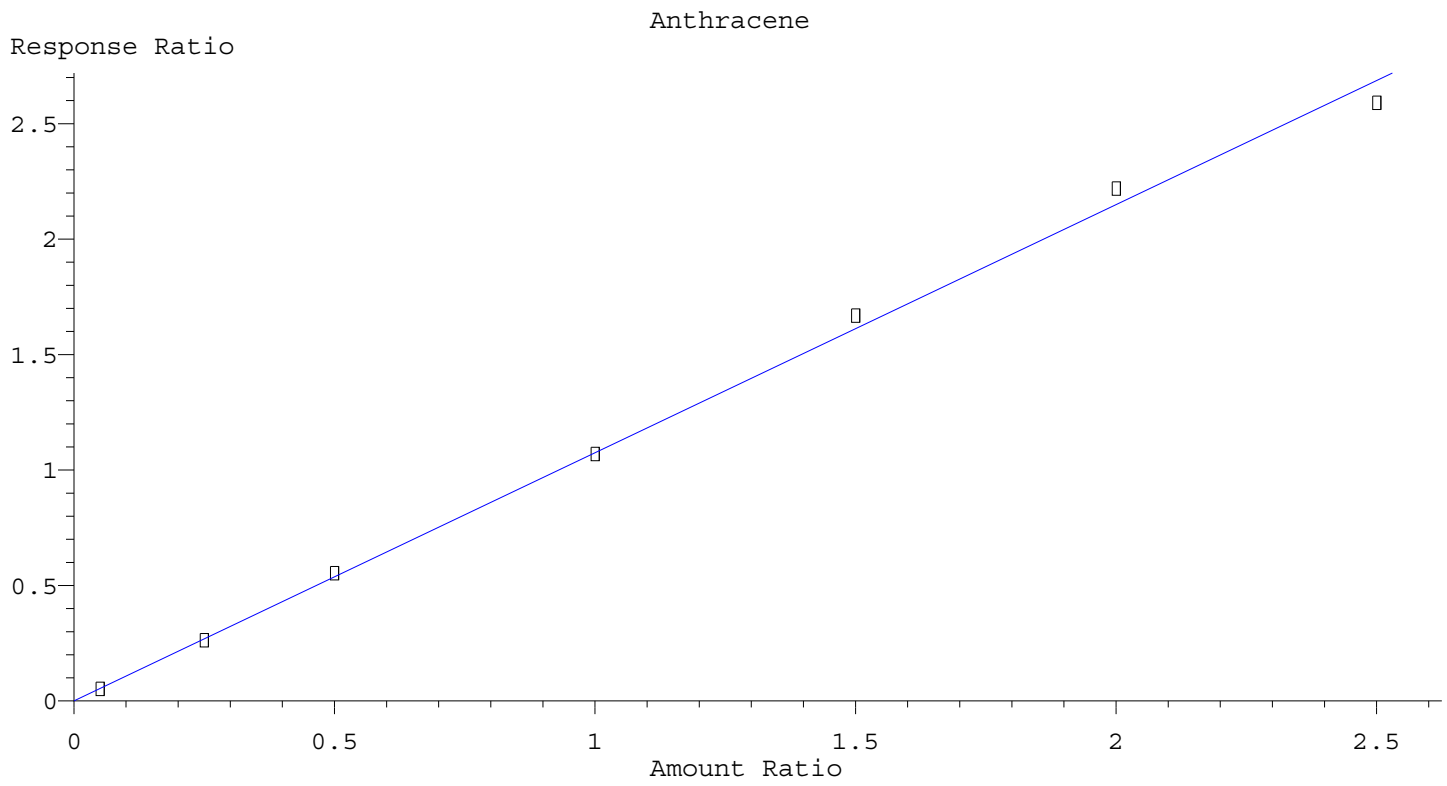
Resp Ratio = 2.25e-001 * Amt
RF Rel Std Dev = 3.1% Curve Fit: Avg RF



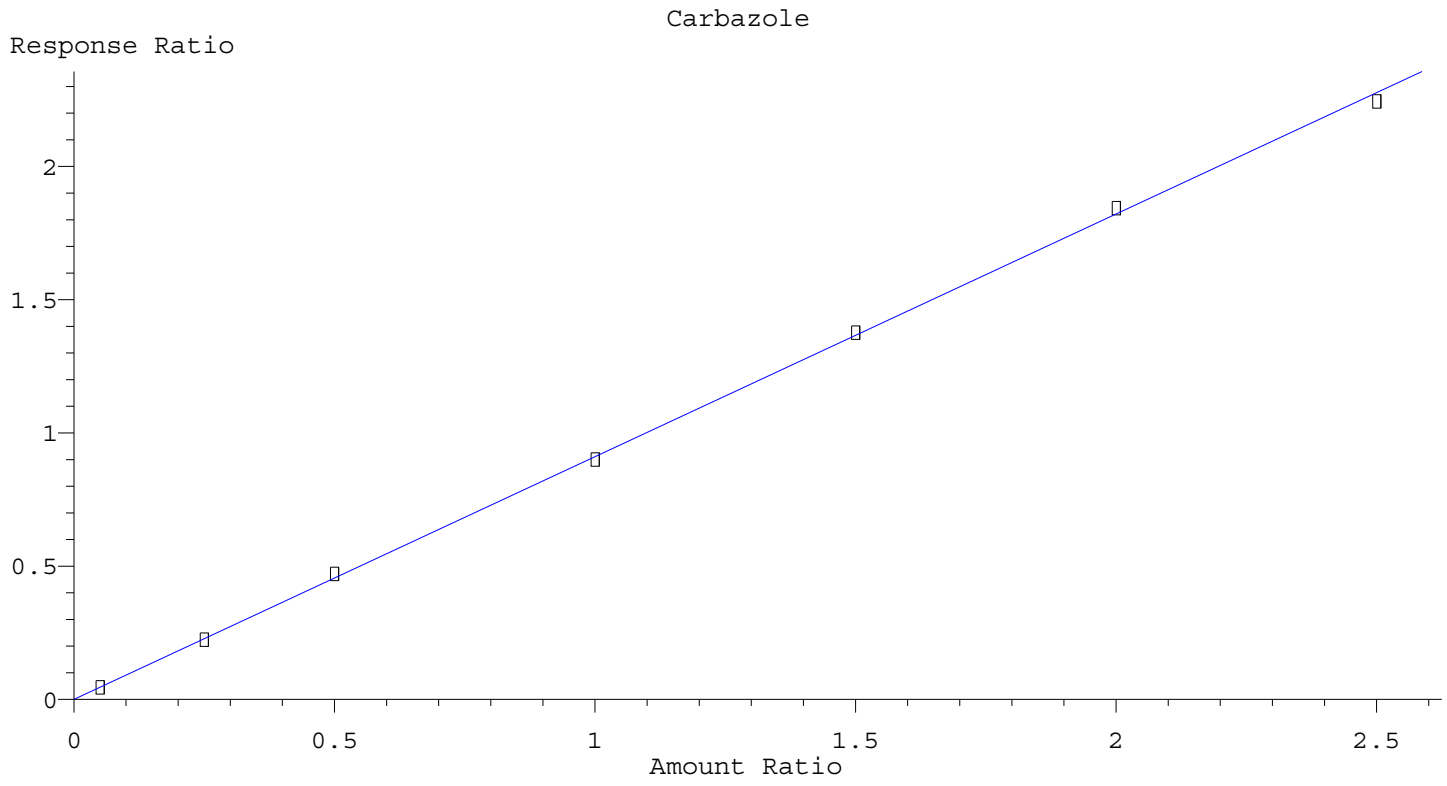
R = 3.32e-003 A*A + 1.24e-001 A - 1.50e-002
Coef of Det (r^2) = 1.000 Curve Fit: Quadratic w(1/a)



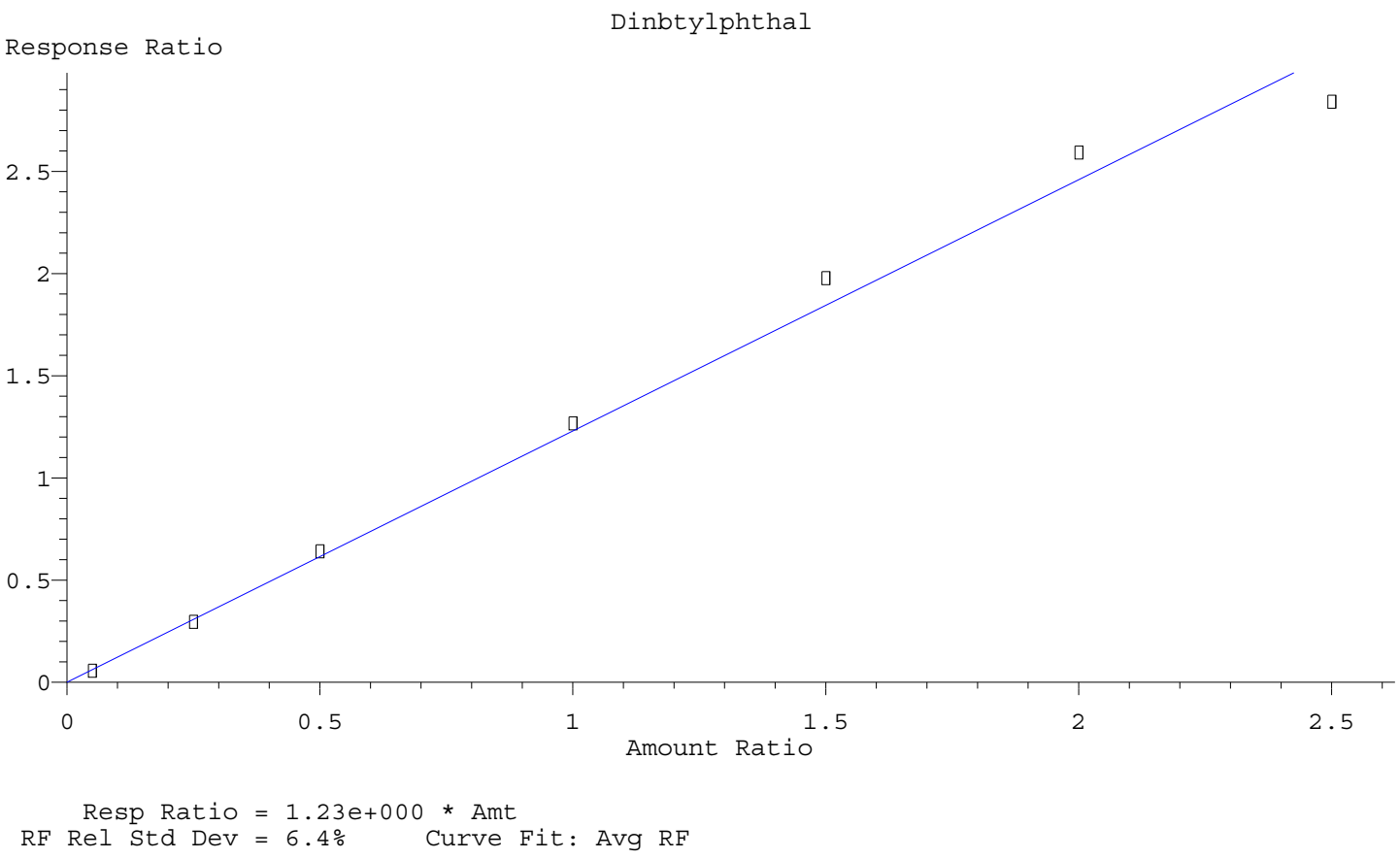
Resp Ratio = 1.06e+000 * Amt
RF Rel Std Dev = 2.7% Curve Fit: Avg RF



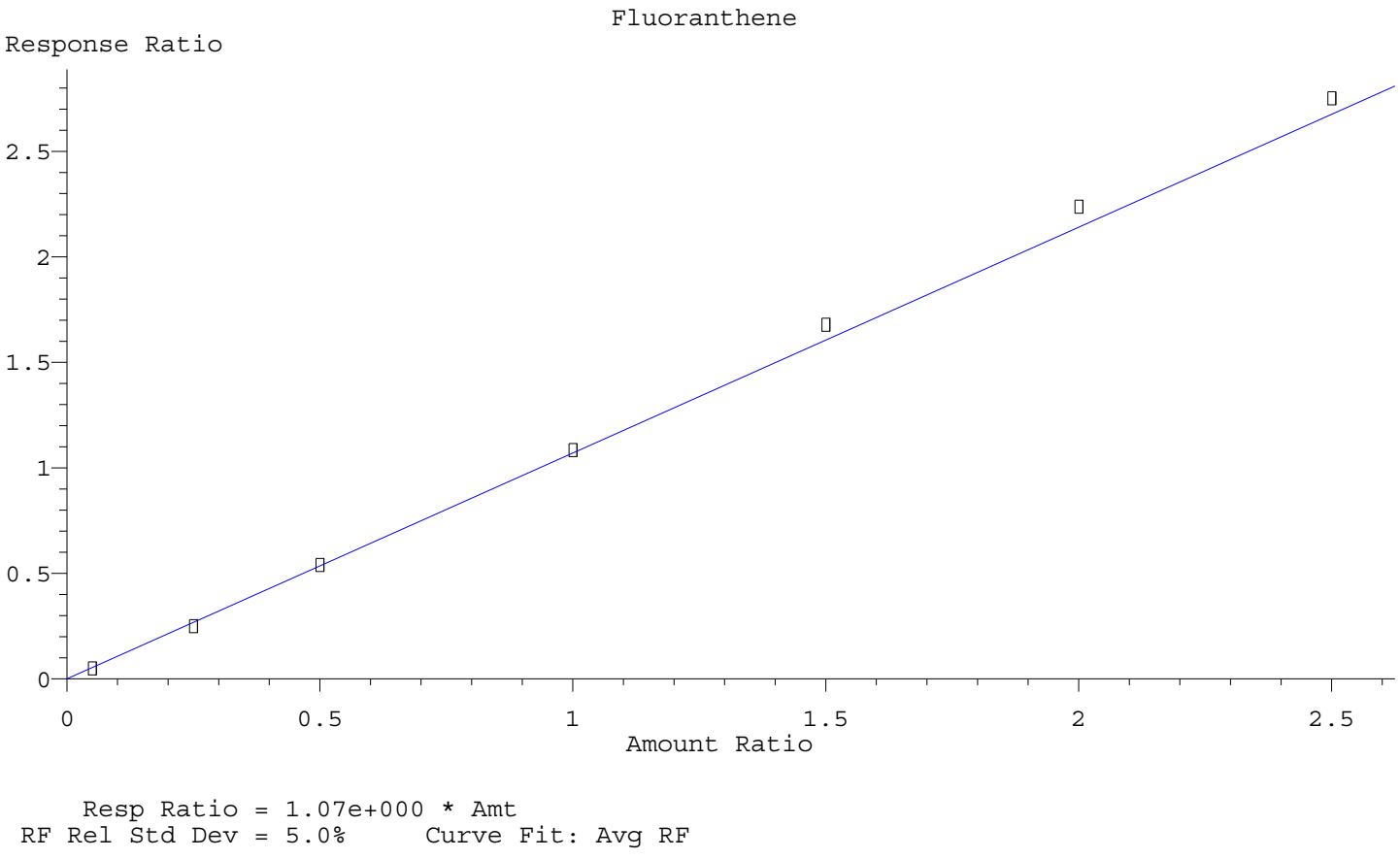
Resp Ratio = 1.08e+000 * Amt
RF Rel Std Dev = 3.1% Curve Fit: Avg RF



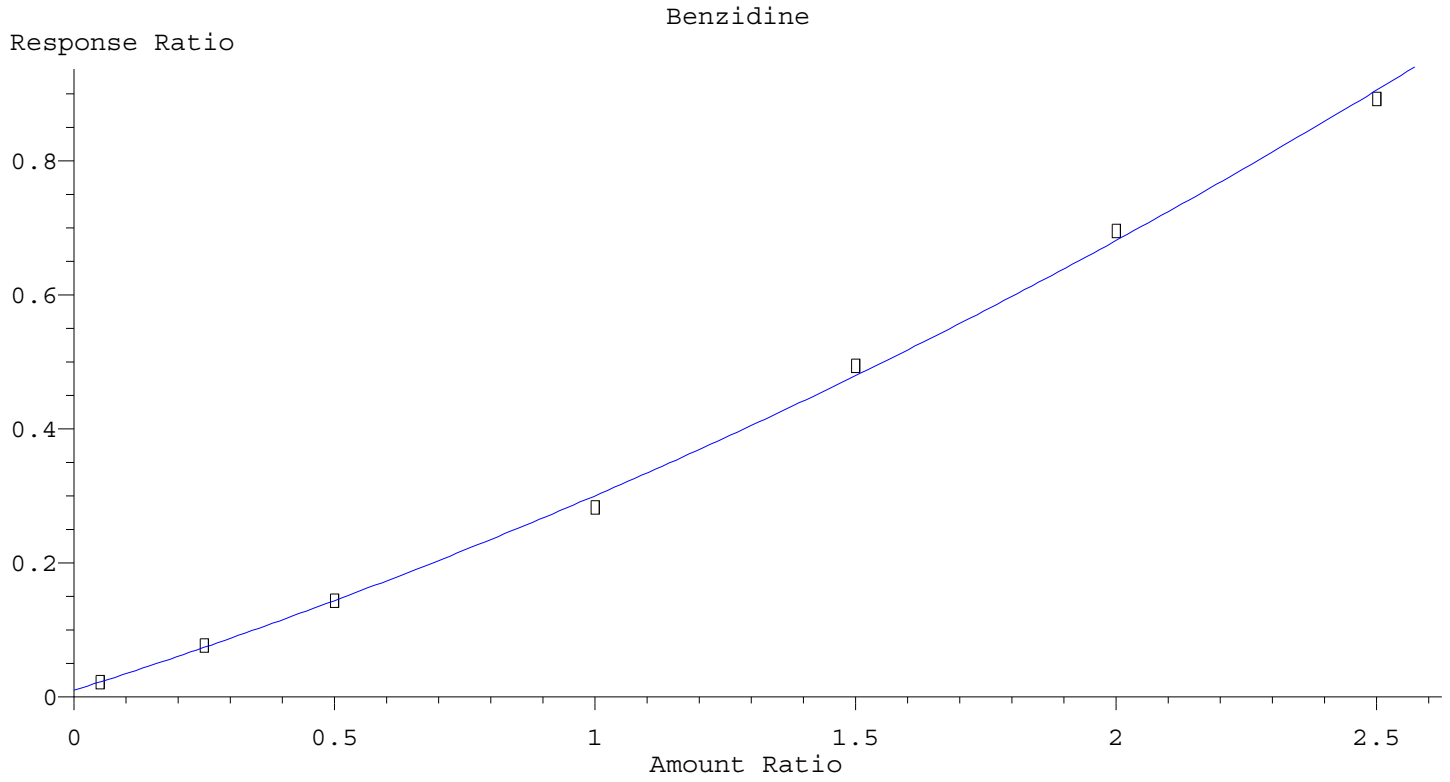
Resp Ratio = 9.11e-001 * Amt
RF Rel Std Dev = 1.8% Curve Fit: Avg RF



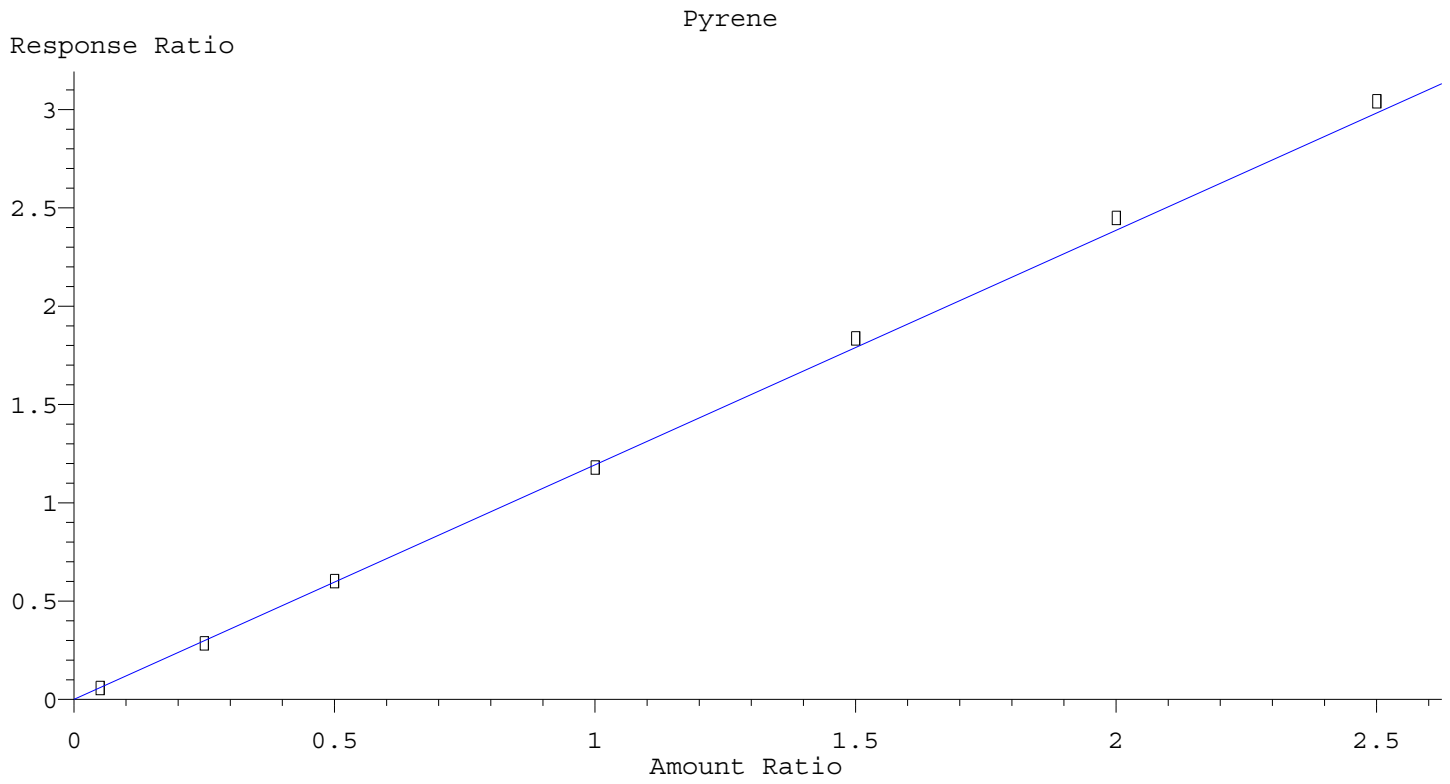
Resp Ratio = 1.23e+000 * Amt
RF Rel Std Dev = 6.4% Curve Fit: Avg RF



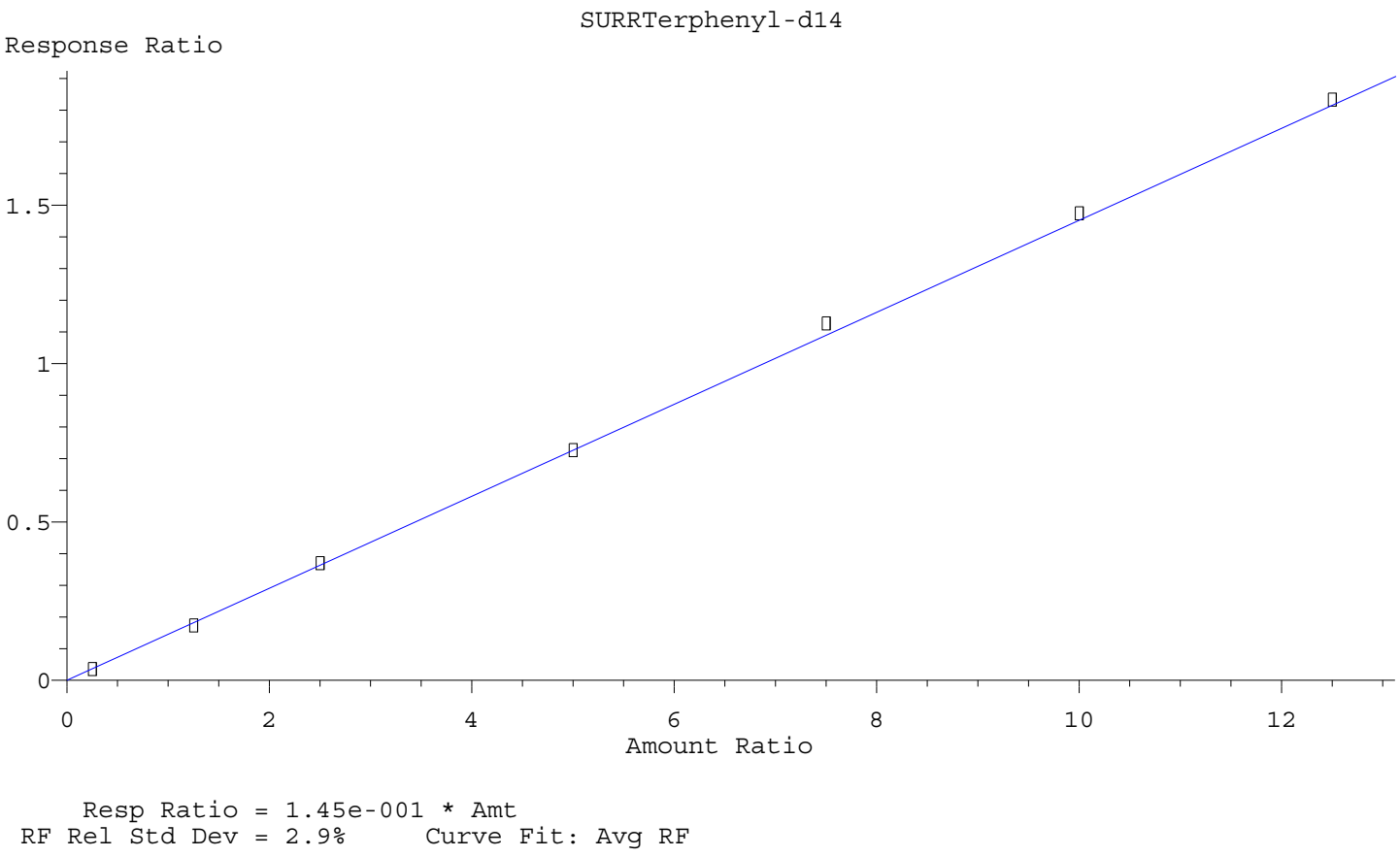
Resp Ratio = 1.07e+000 * Amt
RF Rel Std Dev = 5.0% Curve Fit: Avg RF



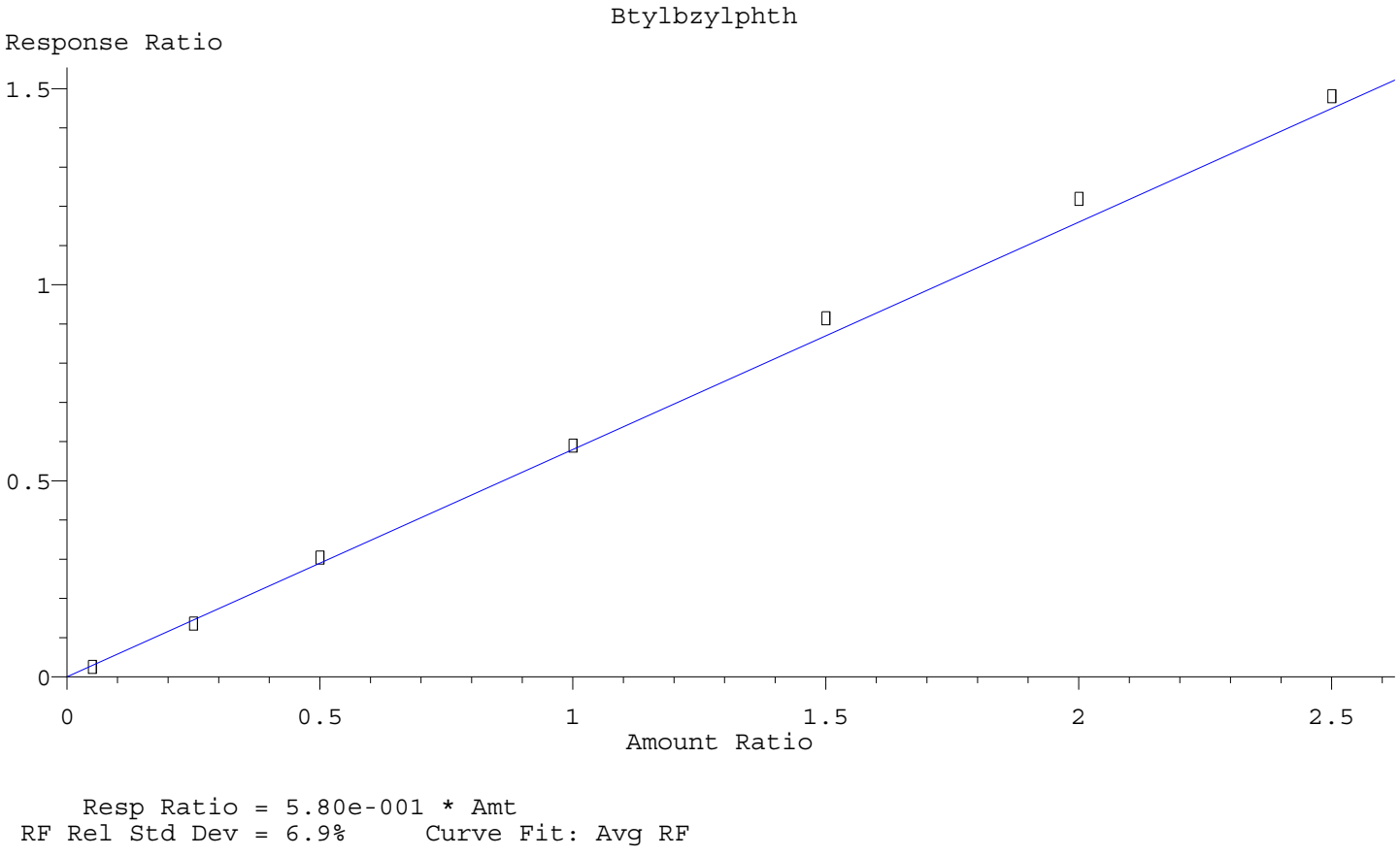
R = 4.52e-002 A*A + 2.45e-001 A + 9.86e-003
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a)



Resp Ratio = 1.19e+000 * Amt
RF Rel Std Dev = 2.8% Curve Fit: Avg RF

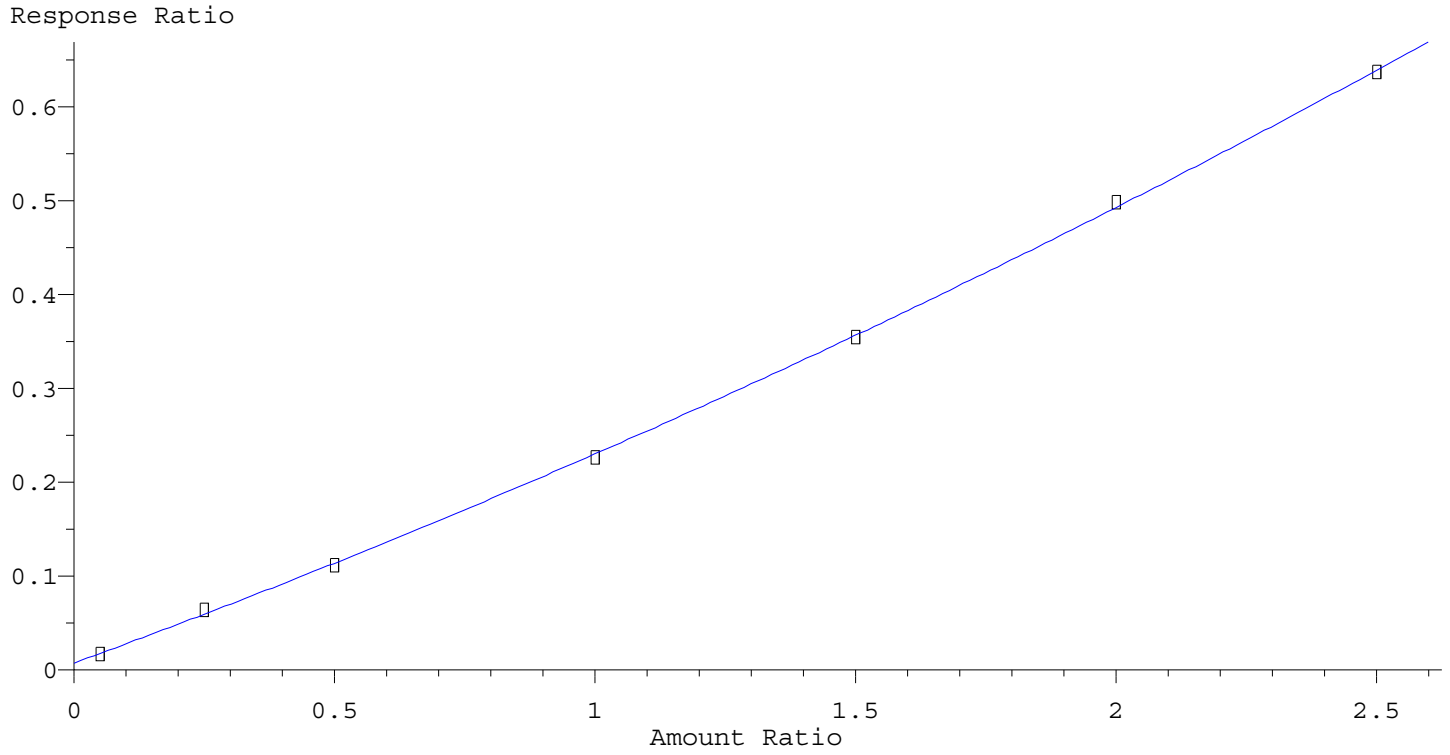


Resp Ratio = 1.45e-001 * Amt
RF Rel Std Dev = 2.9% Curve Fit: Avg RF



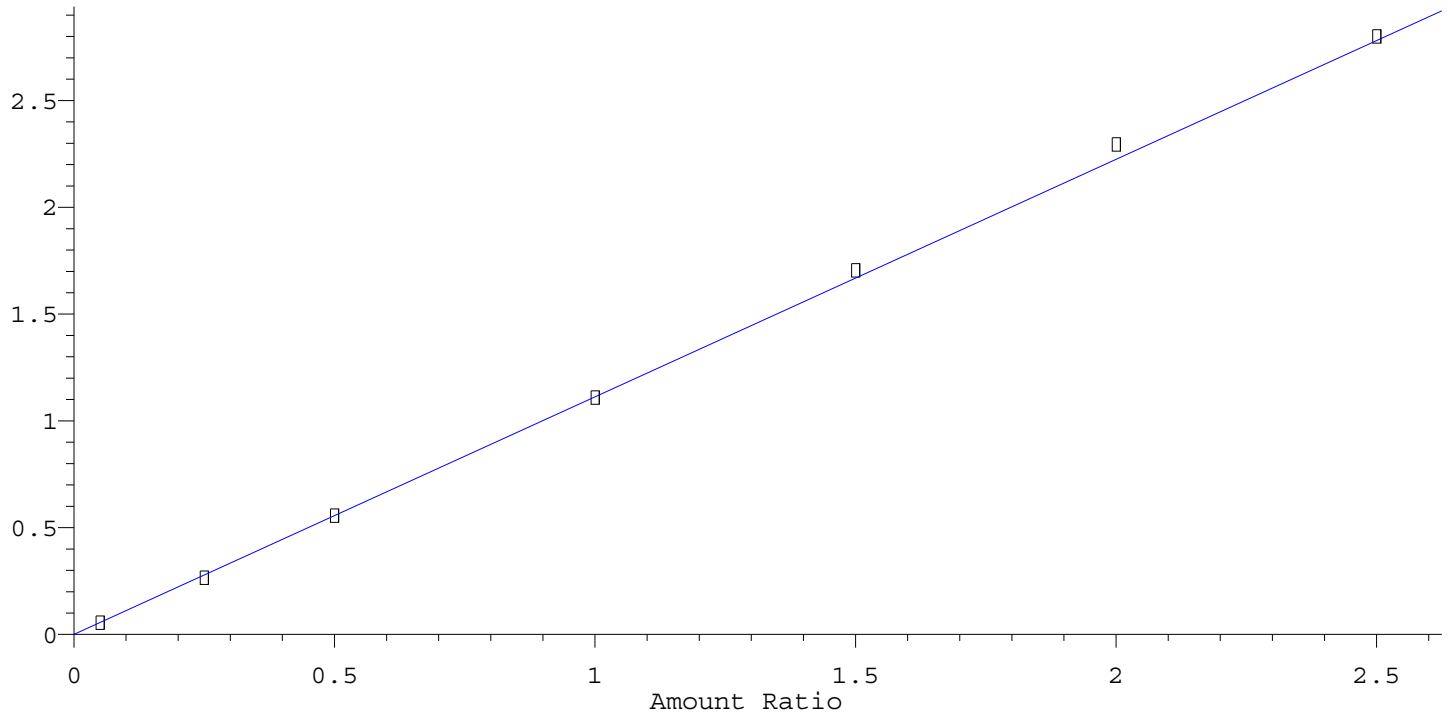
Resp Ratio = 5.80e-001 * Amt
RF Rel Std Dev = 6.9% Curve Fit: Avg RF

33Diclbnzidin

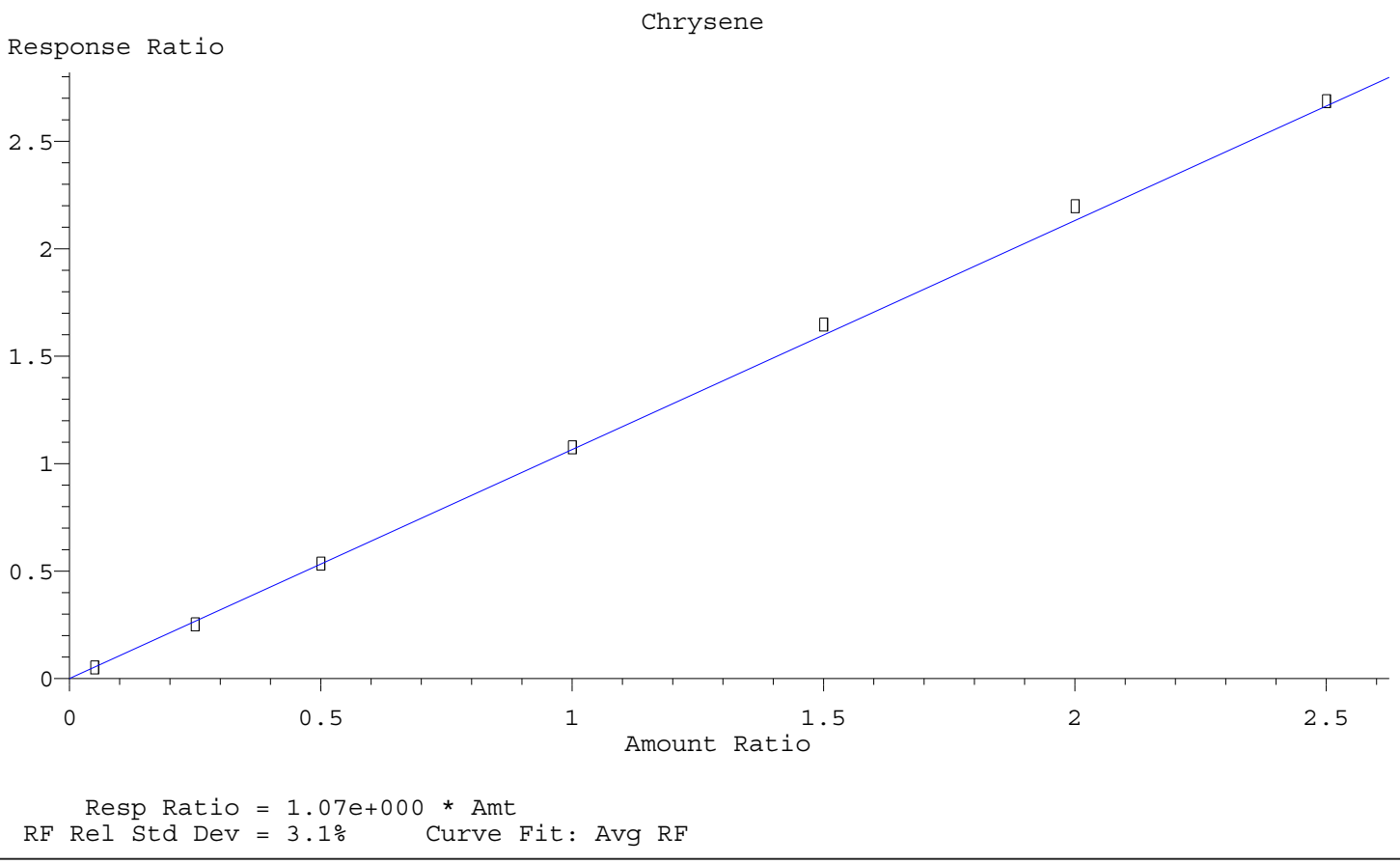


R = 1.99e-002 A*A + 2.03e-001 A + 7.33e-003
Coef of Det (r^2) = 1.000 Curve Fit: Quadratic w(1/a)

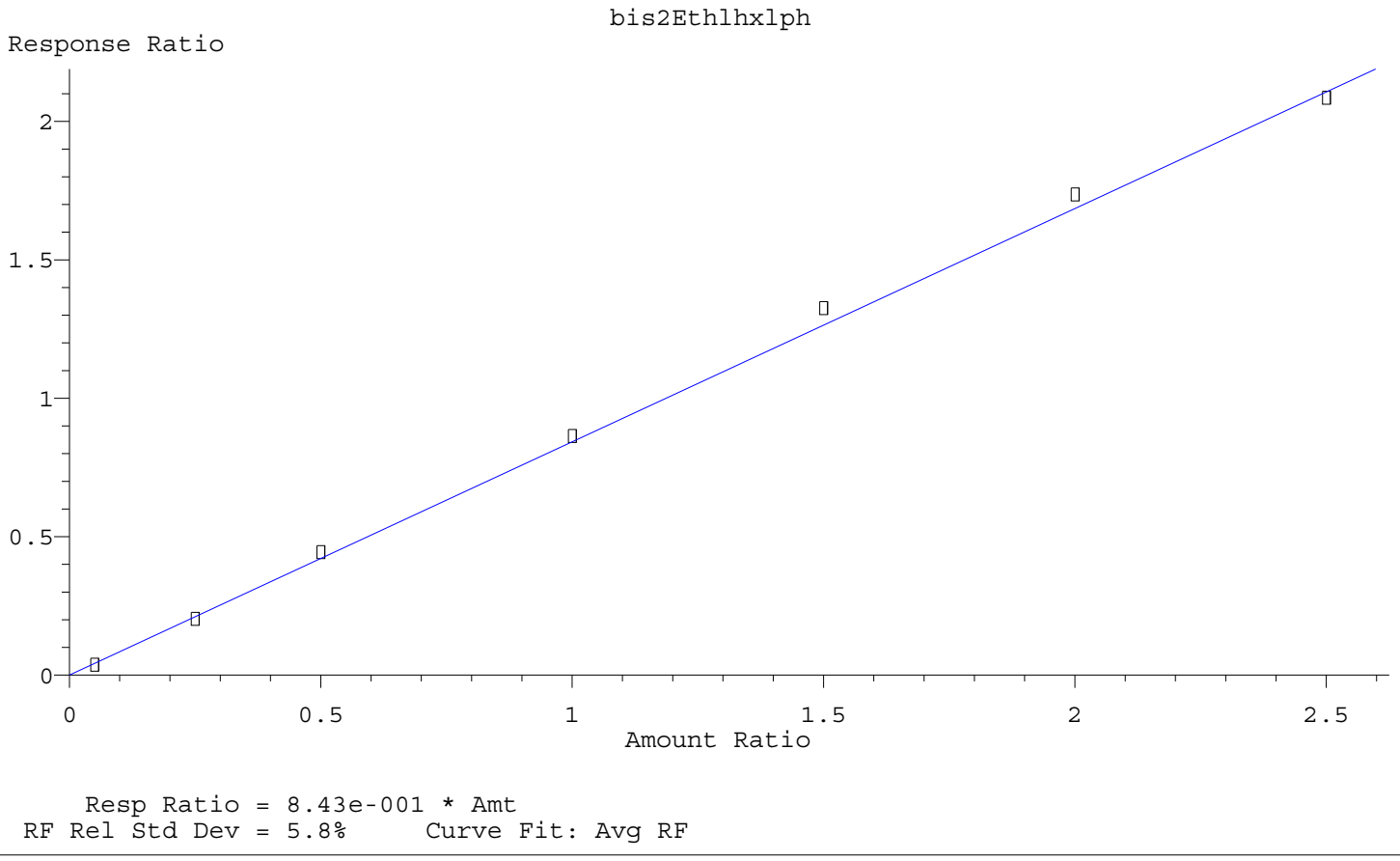
B[a]anthracen



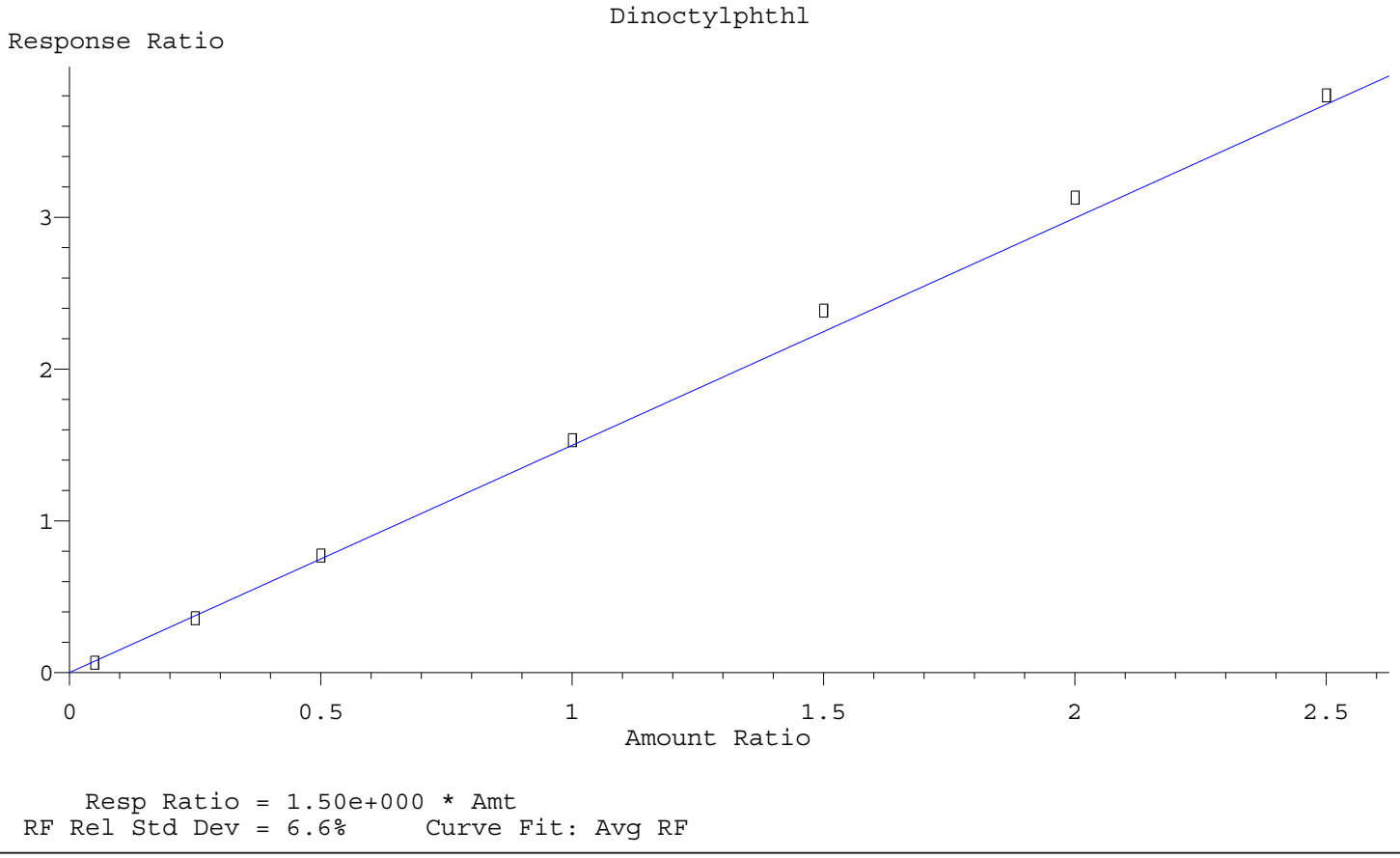
Resp Ratio = 1.11e+000 * Amt
RF Rel Std Dev = 2.5% Curve Fit: Avg RF



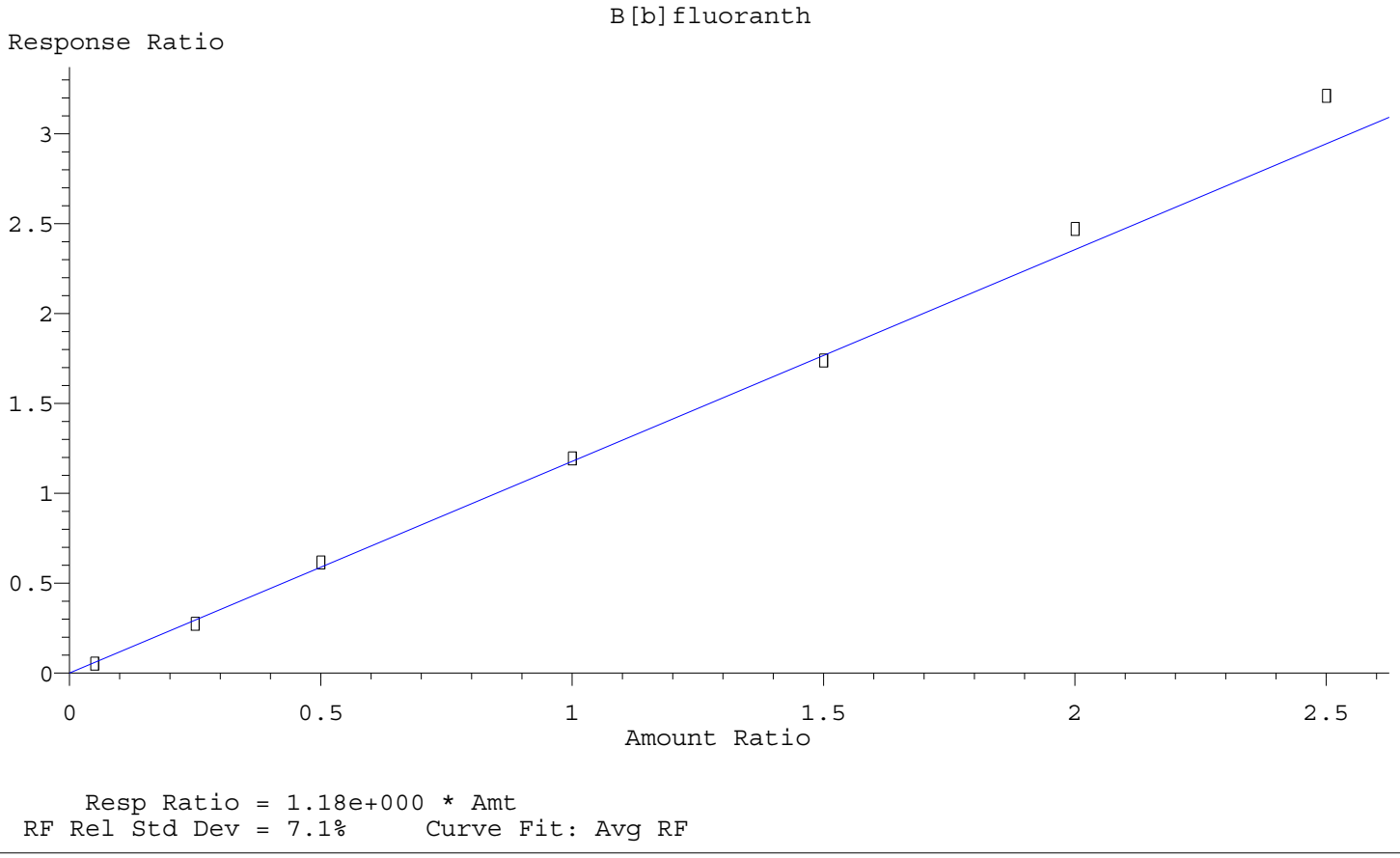
Resp Ratio = 1.07e+000 * Amt
RF Rel Std Dev = 3.1% Curve Fit: Avg RF



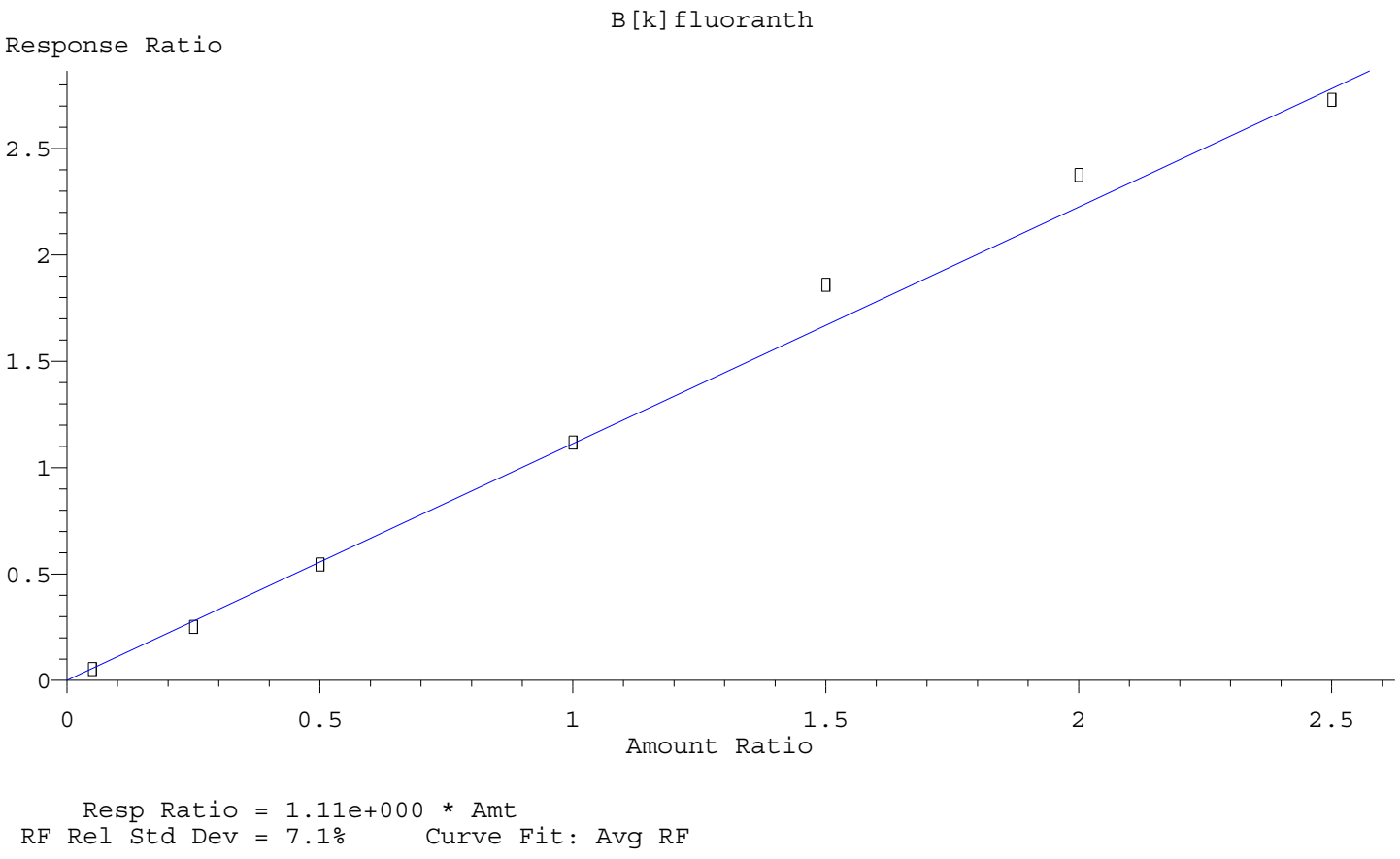
Resp Ratio = 8.43e-001 * Amt
RF Rel Std Dev = 5.8% Curve Fit: Avg RF



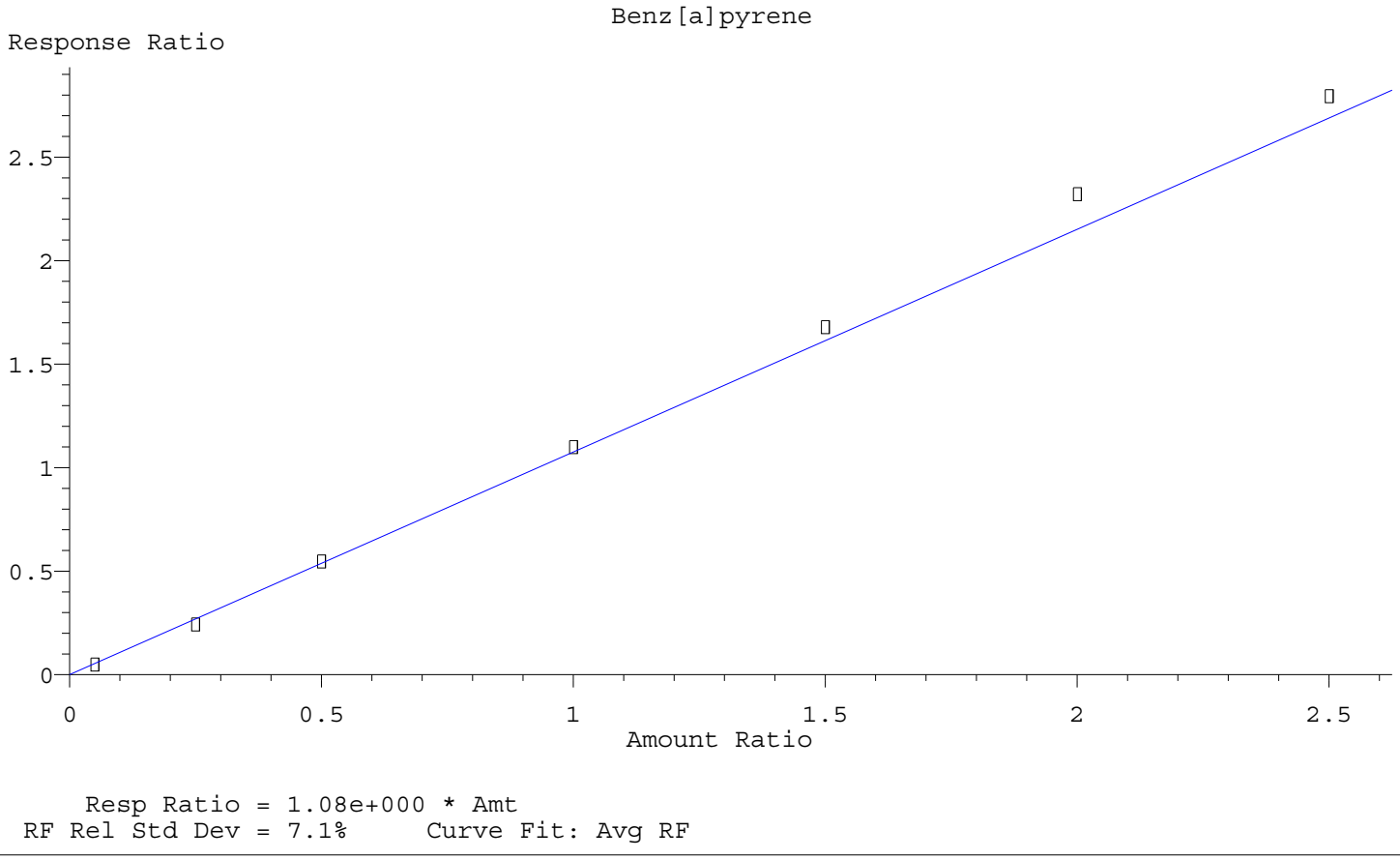
Resp Ratio = 1.50e+000 * Amt
RF Rel Std Dev = 6.6% Curve Fit: Avg RF



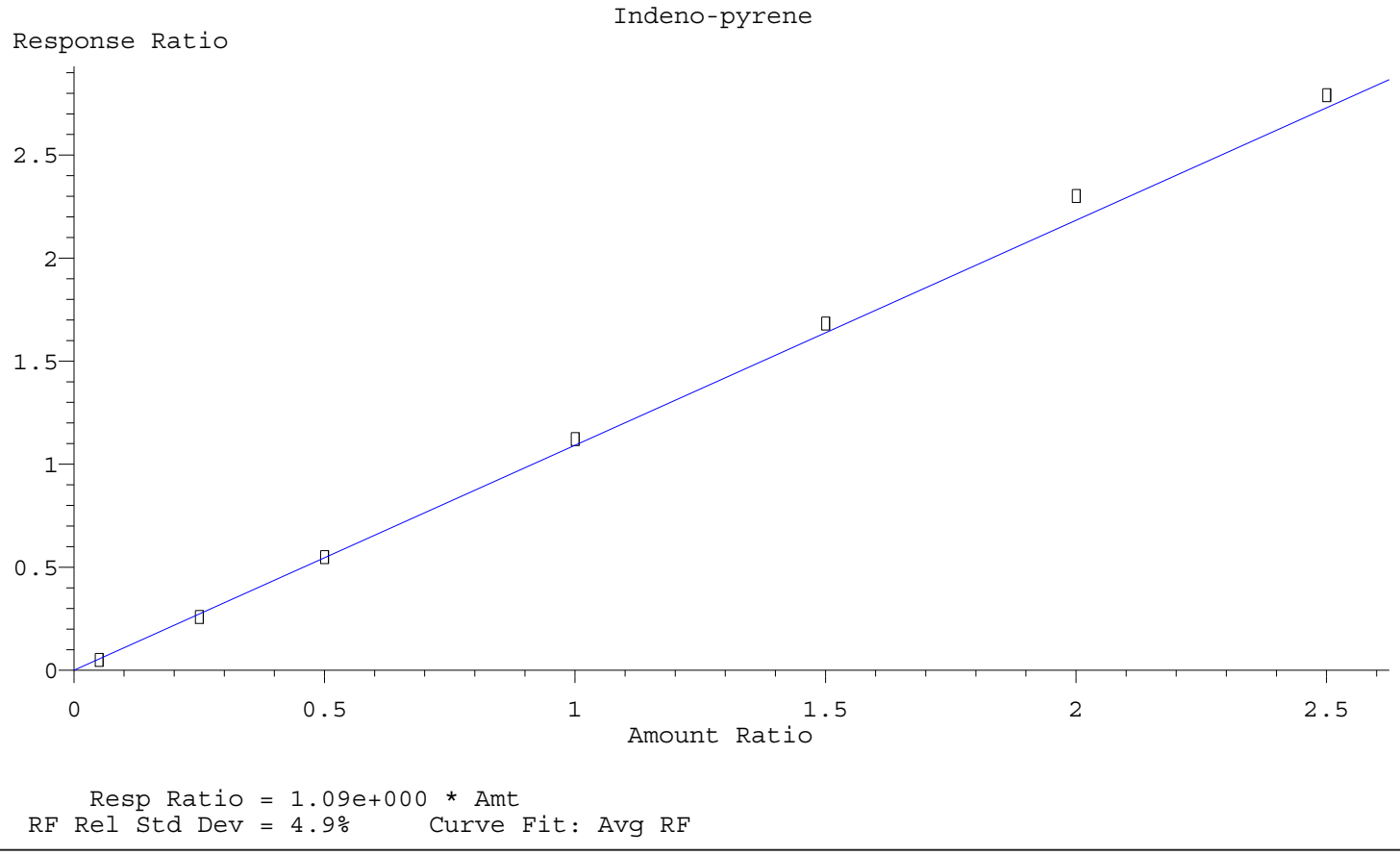
Resp Ratio = 1.18e+000 * Amt
RF Rel Std Dev = 7.1% Curve Fit: Avg RF



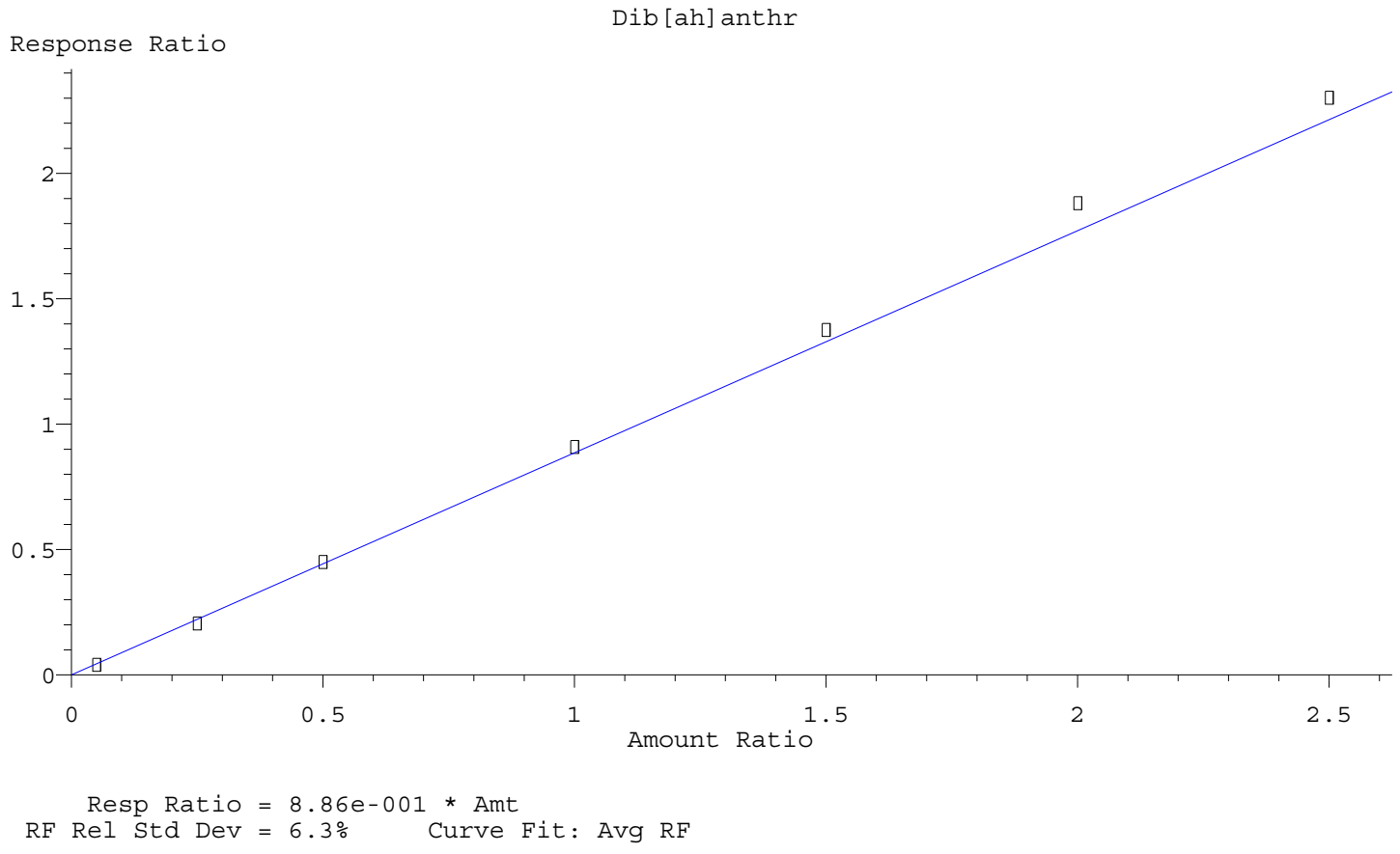
Resp Ratio = 1.11e+000 * Amt
RF Rel Std Dev = 7.1% Curve Fit: Avg RF



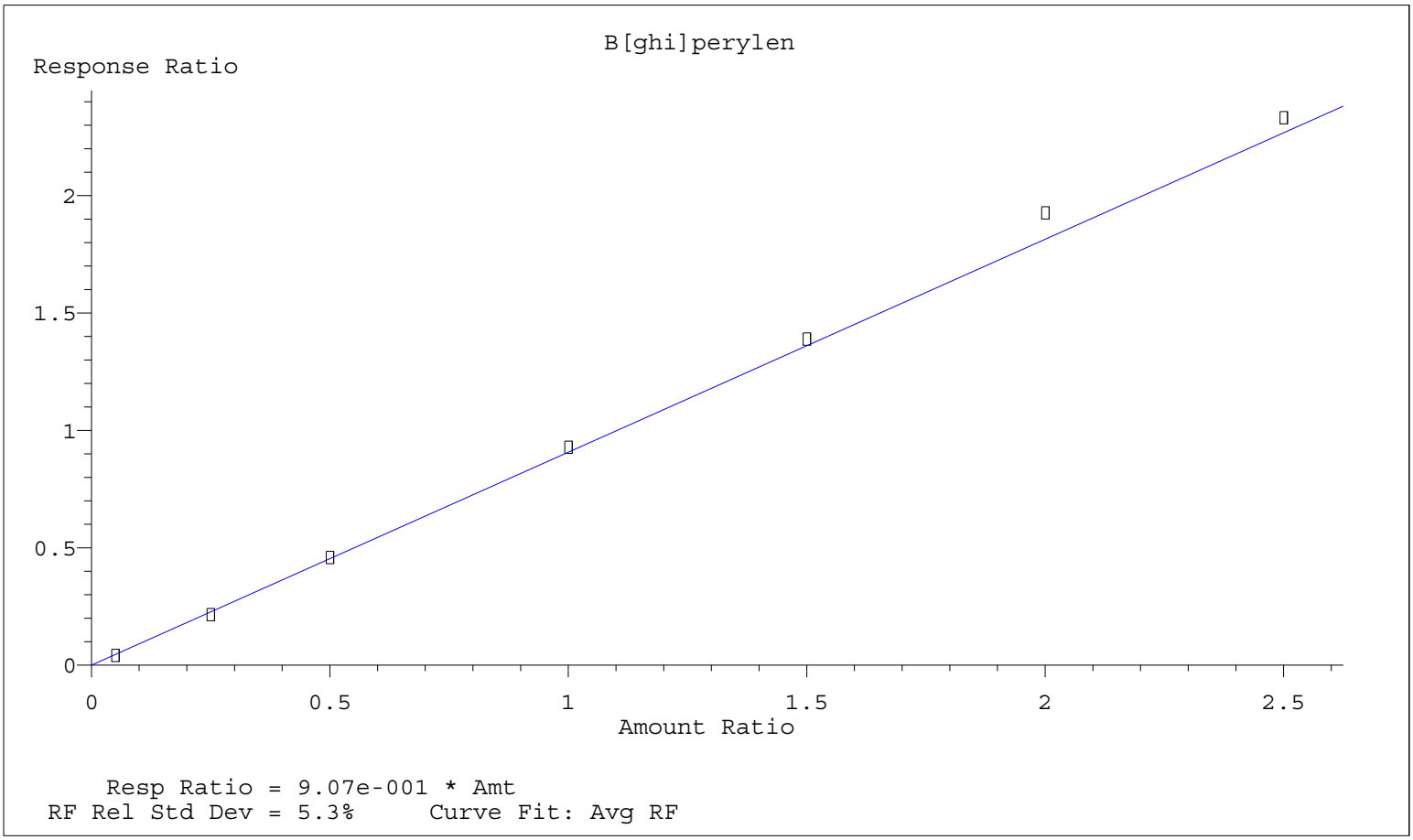
Resp Ratio = 1.08e+000 * Amt
RF Rel Std Dev = 7.1% Curve Fit: Avg RF



Resp Ratio = 1.09e+000 * Amt
RF Rel Std Dev = 4.9% Curve Fit: Avg RF



Resp Ratio = 8.86e-001 * Amt
RF Rel Std Dev = 6.3% Curve Fit: Avg RF


B[ghi]perylen
Response Ratio
2
1.5
1
0.5
0
0
0.5
1
1.5
2
2.5
Amount Ratio
Resp Ratio = 9.07e-001 * Amt
RF Rel Std Dev = 5.3%
Curve Fit: Avg RF

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2IB01.D Vial: 99
Acq On : 2 Dec 2010 11:26 Operator: RPN
Sample : INSTRUMENT BLANK Inst : SVMS2
Misc : 500uL+5uL IS S2263A Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 18:11:28 2010

RPN
12/02/10

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 14:33:20 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

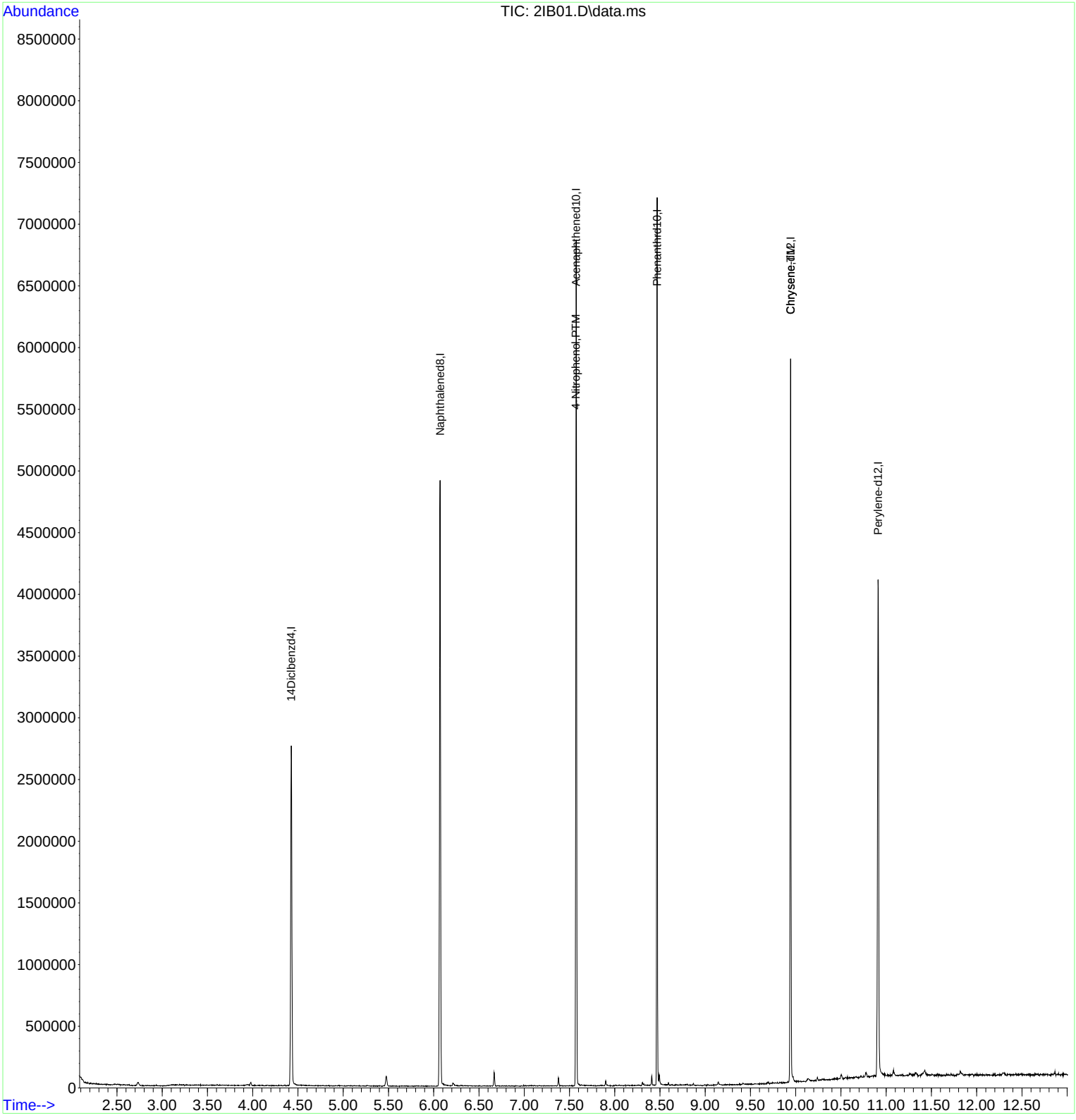
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.425	152	494712	20.00	ug/mL	0.00
21) Naphthalened8	6.071	136	2246218	20.00	ug/mL	0.00
39) Acenaphthened10	7.574	164	1161788	20.00	ug/mL	0.00
63) Phenanthrd10	8.469	188	1740088	20.00	ug/mL	0.00
75) Chrysene-d12	9.944	240	1579809	20.00	ug/mL	0.00
85) Perylene-d12	10.910	264	1442980	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	0.000	112	0	0.00	%REC	
Spiked Amount 100.000	Range 20 - 110		Recovery =	0.00%#		
7) SURRPhenol-d5	0.000	99	0	0.00	%REC	
Spiked Amount 100.000	Range 10 - 115		Recovery =	0.00%#		
22) SURRNitrbenzened5	0.000	82	0	0.00	%REC	
Spiked Amount 100.000	Range 40 - 110		Recovery =	0.00%#		
44) SURR2Flbiphenyl	0.000	172	0	0.00	%REC	
Spiked Amount 100.000	Range 50 - 110		Recovery =	0.00%#		
62) SURR246Tribrphenl	0.000	330	0	0.00	%REC	
Spiked Amount 100.000	Range 40 - 125		Recovery =	0.00%#		
78) SURRTerphenyl-d14	0.000	244	0	0.00	ug/mL	
Spiked Amount 100.000	Range 50 - 135		Recovery =	0.00%#		
Target Compounds						Qvalue
55) 4-Nitrophenol	7.571	109	1536	0.2625	ug/mL#	1
76) Benzidine	9.145	184	4974	Below Cal		89
82) Chrysene	9.944	228	3879	0.0461	ug/mL	76

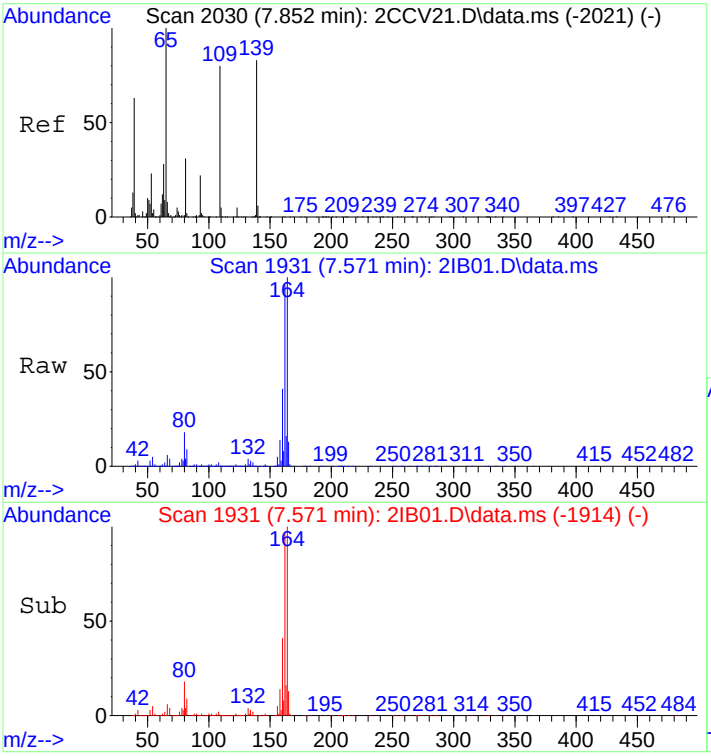
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2IB01.D Vial: 99
Acq On : 2 Dec 2010 11:26 Operator: RPN
Sample : INSTRUMENT BLANK Inst : SVMS2
Misc : 500uL+5uL IS S2263A Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 18:11:28 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 14:33:20 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

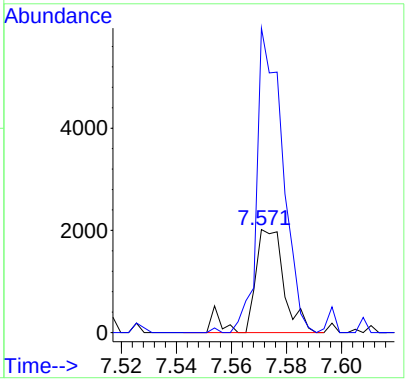


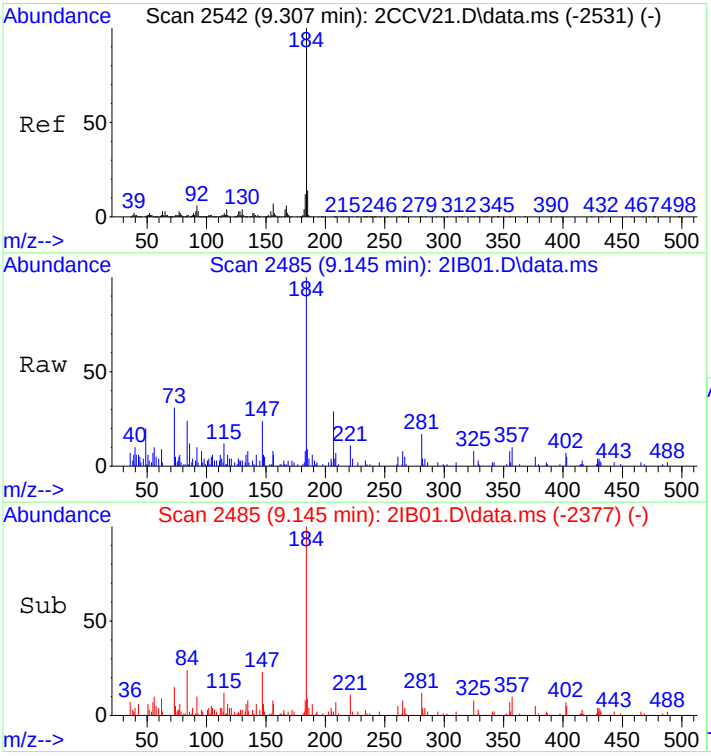


#55
4-Nitrophenol
Concen: 0.26 ug/mL
RT: 7.571 min Scan# 1931
Delta R.T. -0.097 min
Lab File: 2IB01.D
Acq: 2 Dec 10 11:26 am

Tgt Ion:109 Resp: 1536

Ion	Ratio	Lower	Upper
109	100		
65	295.4	123.5	183.5#

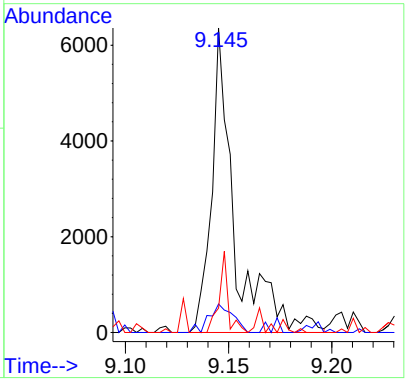


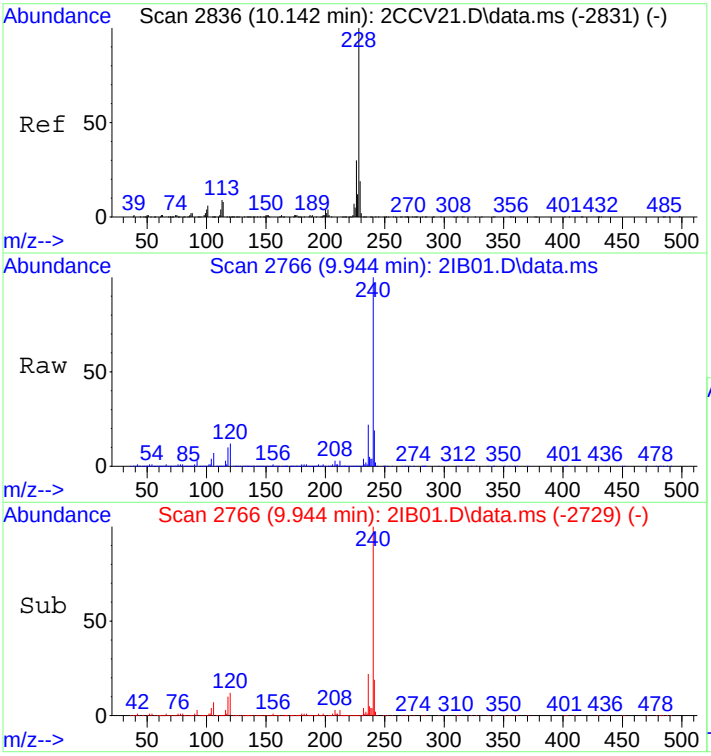


#76
Benzidine
Concen: Below ug/mL
RT: 9.145 min Scan# 2485
Delta R.T. 0.006 min
Lab File: 2IB01.D
Acq: 2 Dec 10 11:26 am

Tgt Ion:184 Resp: 4974

Ion	Ratio	Lower	Upper
184	100		
185	9.3	0.0	43.8
183	8.0	0.0	41.8

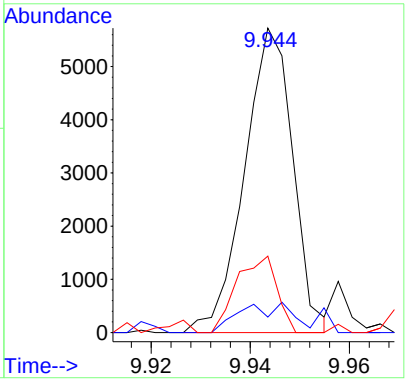




#82
Chrysene
Concen: 0.05 ug/mL
RT: 9.944 min Scan# 2766
Delta R.T. -0.011 min
Lab File: 2IB01.D
Acq: 2 Dec 10 11:26 am

Tgt Ion:228 Resp: 3879

Ion	Ratio	Lower	Upper
228	100		
226	11.8	0.0	58.6
229	25.1	0.0	49.6



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICAL1.D Vial: 8
Acq On : 2 Dec 2010 13:49 Operator: RPN
Sample : ICAL 1 1ug/ml SVMS4679 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 14:29:45 2010

RPN
12/02/10

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 14:29:41 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.425	152	448295	20.00	ug/mL	0.00
21) Naphthalened8	6.068	136	2055608	20.00	ug/mL	0.00
39) Acenaphthened10	7.571	164	1068707	20.00	ug/mL	0.00
63) Phenanthrd10	8.466	188	1606585	20.00	ug/mL	0.00
75) Chrysene-d12	9.932	240	1446793	20.00	ug/mL	0.00
85) Perylene-d12	10.901	264	1321324	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	3.161	112	25309	2.28	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery = 2.28%#			
7) SURRPhenol-d5	3.988	99	30958	2.31	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 2.31%#			
22) SURRNitrbenzened5	5.119	82	21081	4.20	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 4.20%#			
44) SURR2Flbiphenyl	7.085	172	67225	4.82	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 4.82%#			
62) SURR246Tribrphenl	8.085	330	6680	2.11	%REC	-0.01
Spiked Amount 100.000	Range 40 - 125		Recovery = 2.11%#			
78) SURRTerphenyl-d14	9.273	244	51023	4.87	ug/mL	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 4.87%#			
Target Compounds						Qvalue
2) Ntrsdimeth	2.377	74	14990	0.9470	ug/mL	81
3) Pyridine	2.428	79	25977	0.9247	ug/mL	98
5) Aniline	4.056	93	40738	0.9434	ug/mL	91
6) bis2Clethletr	4.121	93	25599	0.9438	ug/mL	91
8) Phenol	4.002	94	29820	0.8966	ug/mL	79
9) 2-Cl-phenol	4.178	128	29697	0.9971	ug/mL	98
10) 13Diclbenz	4.360	146	34222	0.9785	ug/mL	90
11) 14Diclbenz	4.442	146	36269	1.0383	ug/mL	87
12) 12Diclbenz	4.624	146	33134	0.9944	ug/mL	97
13) Benzyl alcoho	4.593	108	4245	1.0136	ug/mL#	34
14) bis2clispreth	4.755	45	51314	1.0050	ug/mL	100
15) 2Methylphenol	4.718	108	24119	0.9479	ug/mL	82
16) Ntrspyrrol	4.894	100	11153	0.8369	ug/mL	78
17) Acetophenone	4.923	105	36692	0.9702	ug/mL	84
18) Hexaclethane	5.045	117	11984	1.0209	ug/mL#	73
19) N-Ntrsdinprop	4.925	70	15940	0.9374	ug/mL	97
20) 3&4Methylphenol	4.920	108	21133	0.8199	ug/mL	91
23) Nitrobenzene	5.147	77	23019	0.8969	ug/mL	83
24) Isophorone	5.502	82	49476	0.8860	ug/mL	93
25) 2-Nitrophenol	5.607	139	15546	0.8159	ug/mL	67
26) 24Dimthpheno	5.678	107	27412	0.9606	ug/mL	86
27) bis2clethoxym	5.812	93	38866	1.0164	ug/mL	77
28) 24Diclphenol	5.906	162	21868	0.8145	ug/mL	91
29) 124Triclbenz	6.005	180	33692	1.0304	ug/mL	83
30) Benzoic acid	5.764	105	417	2.9411	ug/mL#	20
31) Naphthalene	6.088	128	103015	0.9802	ug/mL	98
32) 4-Cl-aniline	6.167	127	36373	0.9436	ug/mL	82
33) 26Diclphenol	6.164	162	21883	0.9055	ug/mL	94
34) Hexaclprop	6.187	213	14831	0.8789	ug/mL	85
35) Hexaclbutdien	6.232	225	15578	1.0165	ug/mL	92
36) 4Cl3methylphe	6.662	107	22003	0.8675	ug/mL	95
37) 2Methylnaphth	6.775	141	57929	0.9938	ug/mL	96
38) 1Methylnaphth	6.858	141	58401	0.9593	ug/mL	83
40) Hxclcycpentdi	6.909	237	11547	0.6450	ug/mL	86

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICAL1.D Vial: 8
Acq On : 2 Dec 2010 13:49 Operator: RPN
Sample : ICAL 1 1ug/ml SVMS4679 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 14:29:45 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 14:29:41 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

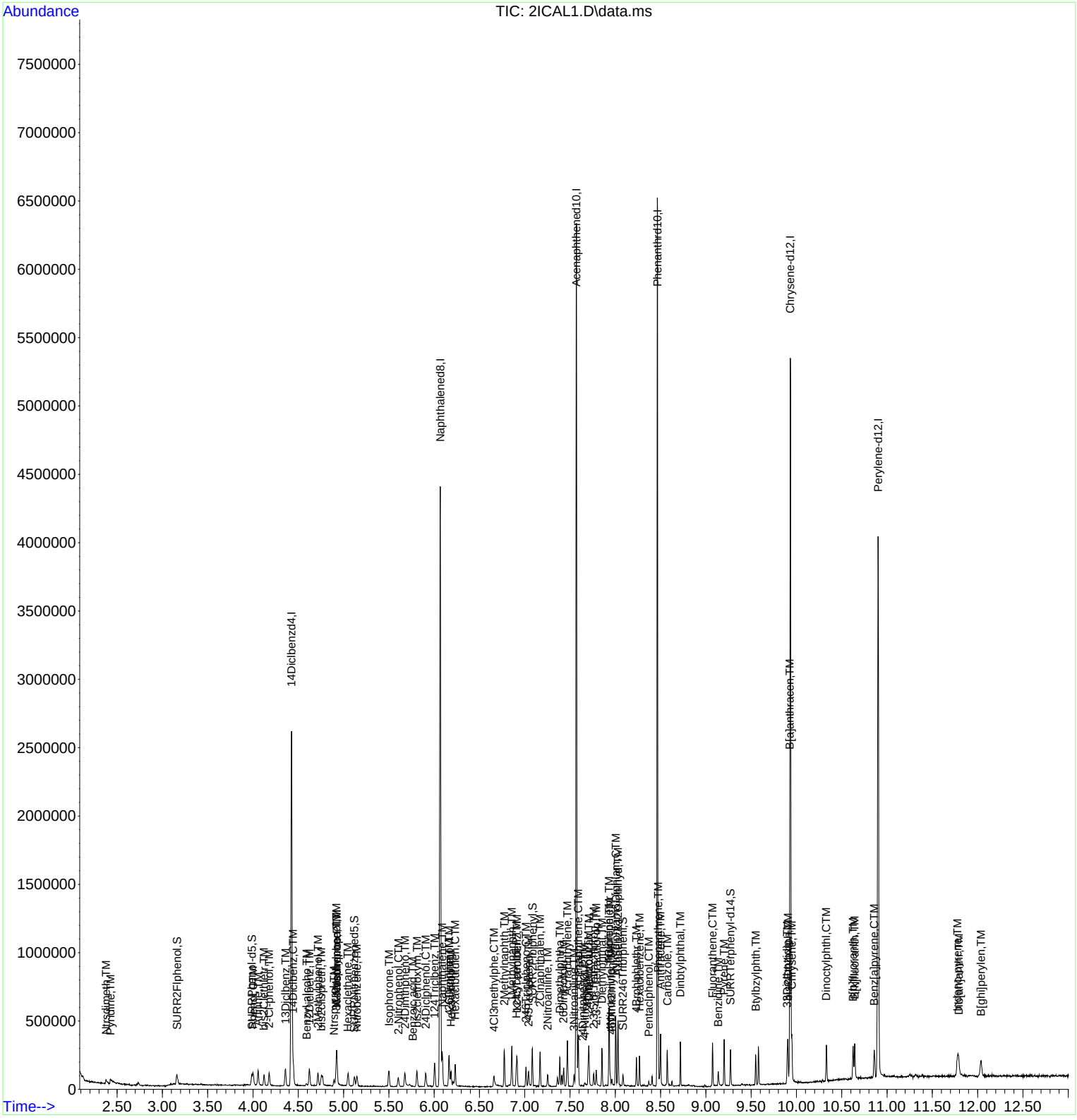
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	6.914	216	28271	1.0008 ug/mL	96
42) 246Triclpheno	7.014	196	15849	0.8543 ug/mL	89
43) 245Triclpheno	7.042	196	17743	0.9088 ug/mL	79
45) 2Clnaphthalen	7.170	162	59618	0.9691 ug/mL	95
46) 2Nitroaniline	7.253	65	12301	0.8279 ug/mL	80
47) Acnaphthylene	7.471	152	106313	1.0118 ug/mL	99
48) Dimethylphtha	7.389	163	69007	0.9577 ug/mL	97
49) 26Dinitrotolu	7.429	165	13395	0.8642 ug/mL	84
50) Acenaphthene	7.591	153	66868	1.0120 ug/mL	99
51) 3Nitroaniline	7.542	138	14708	0.8879 ug/mL	86
52) 24Dinitphenol	7.639	184	1312	2.5005 ug/mL#	58
53) Dibenzofuran	7.707	168	89547	1.0417 ug/mL	91
54) 24Dinitrotolu	7.702	165	16524	0.8685 ug/mL	81
55) 4-Nitrophenol	7.665	109	2440	0.4533 ug/mL#	58
56) 2,3,5,6-Tetrachlorop	7.761	232	9098	0.6019 ug/mL	95
57) 2,3,4,6-Tetrachlorop	7.790	232	10178	0.6440 ug/mL	96
58) Fluorene	7.932	166	76361	1.1102 ug/mL	99
59) 4Clphlphlethr	7.932	204	31811	1.0327 ug/mL	90
60) Diethylphthal	7.852	149	69622	0.9515 ug/mL	98
61) 4Nitroaniline	7.946	138	15474	0.9583 ug/mL#	63
64) 46Dinit2mylph	7.960	198	5080	1.8100 ug/mL#	68
65) Ntrsdiphlam&Diphlam	8.006	169	94778	1.9962 ug/mL	95
66) Azobenz&12Diphlhyd	8.031	182	35430	1.9755 ug/mL#	70
67) 4Brphlphlethr	8.233	248	16202	0.9387 ug/mL	89
68) Hexaclbenzene	8.267	284	17412	0.9713 ug/mL	95
69) Pentaclphenol	8.369	266	1804	2.5978 ug/mL#	38
70) Phenanthrene	8.474	178	84303	0.9877 ug/mL	97
71) Anthracene	8.500	178	83866	0.9665 ug/mL	96
72) Carbazole	8.574	167	72579	0.9902 ug/mL	99
73) Dinbtylphthal	8.719	149	90576	0.9095 ug/mL	97
74) Fluoranthene	9.074	202	79632	0.9216 ug/mL	96
76) Benzidine	9.136	184	31903	1.0114 ug/mL	97
77) Pyrene	9.202	202	84081	0.9714 ug/mL	97
79) Btylbzylphth	9.551	149	36584	0.8678 ug/mL	84
80) 33Diclbnzidin	9.898	252	24541	0.9779 ug/mL	96
81) B[a]anthracen	9.926	228	79589	0.9904 ug/mL	96
82) Chrysene	9.949	228	74786	0.9735 ug/mL	96
83) bis2Ethlhxlph	9.906	149	54284	0.8845 ug/mL	92
84) Dinoctylphthl	10.330	149	94261	0.8726 ug/mL	98
86) B[b]fluoranth	10.625	252	69119	0.8866 ug/mL	92
87) B[k]fluoranth	10.642	252	69829	0.9444 ug/mL	97
88) Benz[a]pyrene	10.858	252	63906	0.8871 ug/mL	96
89) Indeno-pyrene	11.776	276	66233	0.9104 ug/mL	95
90) Dib[ah]anthr	11.793	278	52532	0.8890 ug/mL	87
91) B[ghi]perylen	12.038	276	54314	0.8926 ug/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICAL1.D Vial: 8
Acq On : 2 Dec 2010 13:49 Operator: RPN
Sample : ICAL 1 1ug/ml SVMS4679 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 14:29:45 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 14:29:41 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICAL2.D Vial: 7
Acq On : 2 Dec 2010 13:29 Operator: RPN
Sample : ICAL 2 5ug/ml SVMS4680 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 13:49:10 2010

RPN
12/02/10

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 13:49:06 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.425	152	489533	20.00	ug/mL	0.00
21) Naphthalened8	6.071	136	2207656	20.00	ug/mL	0.00
39) Acenaphthened10	7.579	164	1150827	20.00	ug/mL	0.00
63) Phenanthrd10	8.469	188	1722597	20.00	ug/mL	0.00
75) Chrysene-d12	9.946	240	1591263	20.00	ug/mL	0.00
85) Perylene-d12	10.910	264	1443607	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	3.158	112	143643	11.83	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery = 11.83%#			
7) SURRPhenol-d5	3.991	99	178192	12.17	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 12.17%			
22) SURRNitrbenzened5	5.122	82	129003	23.74	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 23.74%#			
44) SURR2Flbiphenyl	7.091	172	371192	24.81	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 24.81%#			
62) SURR246Tribrphenl	8.094	330	40816	12.27	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 12.27%#			
78) SURRTerphenyl-d14	9.281	244	275108	23.86	ug/mL	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 23.86%#			
Target Compounds						Qvalue
2) Ntrsdimeth	2.371	74	82301	4.7601	ug/mL	74
3) Pyridine	2.394	79	139471	4.5465	ug/mL	98
5) Aniline	4.056	93	220206	4.6418	ug/mL	90
6) bis2Clethletr	4.124	93	143557	4.8288	ug/mL	98
8) Phenol	4.002	94	170117	4.6574	ug/mL	86
9) 2-Cl-phenol	4.181	128	153325	4.7085	ug/mL	98
10) 13Diclbenz	4.357	146	179633	4.6762	ug/mL	98
11) 14Diclbenz	4.445	146	185564	4.8520	ug/mL	89
12) 12Diclbenz	4.624	146	175636	4.8131	ug/mL	92
13) Benzyl alcoho	4.585	108	52212	3.7528	ug/mL#	72
14) bis2clispreth	4.758	45	266194	4.7265	ug/mL	97
15) 2Methylphenol	4.718	108	132374	4.7645	ug/mL	94
16) Ntrspyrrol	4.897	100	70088	4.8464	ug/mL	77
17) Acetophenone	4.923	105	197613	4.7594	ug/mL	85
18) Hexaclethane	5.051	117	60326	4.6550	ug/mL	97
19) N-Ntrsdinprop	4.928	70	87866	4.6915	ug/mL	94
20) 3&4Methylphenol	4.923	108	138855	4.9136	ug/mL	94
23) Nitrobenzene	5.147	77	131498	4.7450	ug/mL	79
24) Isophorone	5.502	82	285266	4.7410	ug/mL	93
25) 2-Nitrophenol	5.607	139	101613	5.0510	ug/mL	77
26) 24Dimthpheno	5.681	107	145086	4.7396	ug/mL	86
27) bis2clethoxym	5.815	93	201046	4.9038	ug/mL	87
28) 24Diclphenol	5.911	162	138951	4.8364	ug/mL	98
29) 124Triclbenz	6.011	180	170211	4.8852	ug/mL	98
30) Benzoic acid	5.764	105	52212	5.1815	ug/mL	84
31) Naphthalene	6.096	128	547302	4.8612	ug/mL	100
32) 4-Cl-aniline	6.170	127	203617	4.9655	ug/mL	91
33) 26Diclphenol	6.170	162	130342	5.0843	ug/mL	97
34) Hexaclprop	6.190	213	85072	4.7287	ug/mL	97
35) Hexaclbutdien	6.238	225	81382	5.0018	ug/mL	95
36) 4Cl3methylphe	6.664	107	129945	4.7703	ug/mL	84
37) 2Methylnaphth	6.781	141	306362	4.9032	ug/mL	97
38) 1Methylnaphth	6.863	141	319803	4.8902	ug/mL	99
40) Hxclcycpentdi	6.914	237	80767	4.1975	ug/mL	96

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICAL2.D Vial: 7
Acq On : 2 Dec 2010 13:29 Operator: RPN
Sample : ICAL 2 5ug/ml SVMS4680 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 13:49:10 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 13:49:06 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

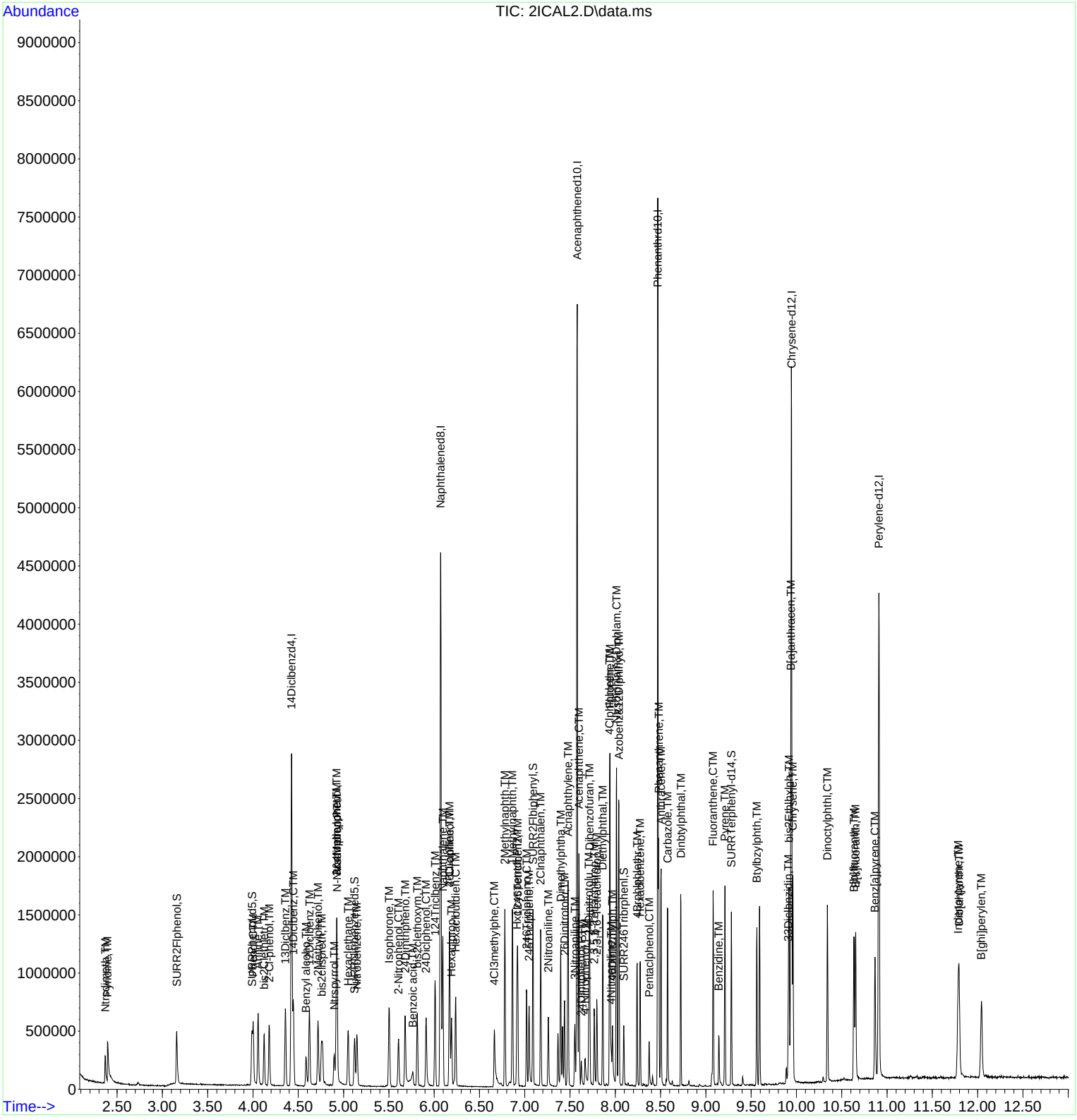
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	6.923	216	149388	4.9661 ug/mL	96
42) 246Triclpheno	7.022	196	96060	4.8545 ug/mL	92
43) 245Triclpheno	7.048	196	98536	4.7234 ug/mL	93
45) 2Clnaphthalen	7.176	162	316659	4.7784 ug/mL	99
46) 2Nitroaniline	7.261	65	74650	4.6686 ug/mL#	79
47) Acnaphthylene	7.480	152	560915	4.9620 ug/mL	97
48) Dimethylphtha	7.398	163	379239	4.9070 ug/mL	99
49) 26Dinitrotolu	7.440	165	84375	5.1127 ug/mL	78
50) Acenaphthene	7.599	153	354420	4.9899 ug/mL	99
51) 3Nitroaniline	7.554	138	89498	5.1103 ug/mL	87
52) 24Dinitphenol	7.625	184	31093	6.5509 ug/mL	77
53) Dibenzofuran	7.716	168	465624	5.0388 ug/mL	95
54) 24Dinitrotolu	7.707	165	105089	5.2014 ug/mL	85
55) 4-Nitrophenol	7.667	109	26308	4.7121 ug/mL#	69
56) 2,3,5,6-Tetrachlorop	7.767	232	69791	4.3304 ug/mL	95
57) 2,3,4,6-Tetrachlorop	7.795	232	76134	4.4991 ug/mL	95
58) Fluorene	7.940	166	379295	5.1218 ug/mL	98
59) 4Clphlphlethr	7.937	204	167868	5.0737 ug/mL	95
60) Diethylphthal	7.861	149	389838	4.9626 ug/mL	98
61) 4Nitroaniline	7.954	138	92904	5.5221 ug/mL#	75
64) 46Dinit2mylph	7.969	198	50343	6.3097 ug/mL	80
65) Ntrsdiphlam&Diphlam	8.014	169	506070	9.9929 ug/mL	99
66) Azobenz&12Diphlhyd	8.040	182	196461	10.2518 ug/mL#	69
67) 4Brphlphlethr	8.241	248	90231	4.9737 ug/mL	87
68) Hexaclbenzene	8.276	284	94700	5.0160 ug/mL	92
69) Pentaclphenol	8.375	266	27715	6.4445 ug/mL	88
70) Phenanthrene	8.480	178	443890	4.8639 ug/mL	98
71) Anthracene	8.506	178	451807	4.8578 ug/mL	99
72) Carbazole	8.577	167	385281	4.9076 ug/mL	98
73) Dinbtylphthal	8.724	149	509586	4.7271 ug/mL	98
74) Fluoranthene	9.080	202	430111	4.6300 ug/mL	98
76) Benzidine	9.142	184	121867	5.2453 ug/mL	94
77) Pyrene	9.210	202	453173	4.7316 ug/mL	95
79) Btylbzylphth	9.563	149	216447	4.6281 ug/mL	87
80) 33Diclbnzidin	9.909	252	101745	5.4200 ug/mL	100
81) B[a]anthracen	9.938	228	422325	4.7632 ug/mL	99
82) Chrysene	9.960	228	401776	4.7651 ug/mL	99
83) bis2Ethlhxlph	9.918	149	323059	4.7439 ug/mL	99
84) Dinoctylphthl	10.341	149	569334	4.7800 ug/mL	98
86) B[b]fluoranth	10.634	252	395960	4.6680 ug/mL	98
87) B[k]fluoranth	10.654	252	362942	4.4450 ug/mL	98
88) Benz[a]pyrene	10.867	252	349881	4.4274 ug/mL	95
89) Indeno-pyrene	11.785	276	372839	4.7105 ug/mL	97
90) Dib[ah]anthr	11.796	278	295585	4.5890 ug/mL	98
91) B[ghi]perylen	12.040	276	310456	4.6898 ug/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICAL2.D Vial: 7
Acq On : 2 Dec 2010 13:29 Operator: RPN
Sample : ICAL 2 5ug/ml SVMS4680 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 13:49:10 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 13:49:06 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICAL3.D Vial: 6
Acq On : 2 Dec 2010 13:08 Operator: RPN
Sample : ICAL 3 10ug/ml SVMS4681 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 13:45:10 2010

RPN
12/02/10

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 13:44:58 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.425	152	450548	20.00	ug/mL	0.00
21) Naphthalened8	6.070	136	2038217	20.00	ug/mL	0.00
39) Acenaphthened10	7.576	164	1074391	20.00	ug/mL	0.00
63) Phenanthrd10	8.468	188	1555926	20.00	ug/mL	0.00
75) Chrysene-d12	9.940	240	1425843	20.00	ug/mL	0.00
85) Perylene-d12	10.906	264	1265987	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	3.158	112	282461	25.19	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery = 25.19%			
7) SURRPhenol-d5	3.990	99	336303	24.82	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 24.82%			
22) SURRNitrbenzened5	5.124	82	255481	50.43	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 50.43%			
44) SURR2Flbiphenyl	7.090	172	729022	52.30	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 52.30%			
62) SURR246Tribrphenl	8.093	330	77711	25.65	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 25.65%#			
78) SURRTerphenyl-d14	9.278	244	526998	51.00	ug/mL	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 51.00%			
Target Compounds						Qvalue
2) Ntrsdimeth	2.371	74	159367	9.9658	ug/mL	85
3) Pyridine	2.396	79	278099	9.7524	ug/mL	95
5) Aniline	4.059	93	438476	9.9291	ug/mL	91
6) bis2Clethletr	4.124	93	268672	9.6973	ug/mL	99
8) Phenol	4.005	94	332622	9.8180	ug/mL	84
9) 2-Cl-phenol	4.181	128	301939	10.0191	ug/mL	98
10) 13Diclbenz	4.360	146	355395	9.9974	ug/mL	96
11) 14Diclbenz	4.445	146	353233	9.9767	ug/mL	96
12) 12Diclbenz	4.624	146	346391	10.3220	ug/mL	99
13) Benzyl alcoho	4.587	108	137186	9.1052	ug/mL#	74
14) bis2clispreth	4.766	45	507867	9.6818	ug/mL	94
15) 2Methylphenol	4.718	108	248354	9.5948	ug/mL	98
16) Ntrspyrrol	4.900	100	133821	9.8906	ug/mL	89
17) Acetophenone	4.925	105	382441	9.9524	ug/mL	84
18) Hexaclethane	5.050	117	115901	9.5884	ug/mL	86
19) N-Ntrsdinprop	4.931	70	173822	9.9802	ug/mL	96
20) 3&4Methylphenol	4.922	108	267603	10.2233	ug/mL	96
23) Nitrobenzene	5.150	77	251400	9.6620	ug/mL	84
24) Isophorone	5.505	82	566034	10.0726	ug/mL	93
25) 2-Nitrophenol	5.607	139	195511	10.4515	ug/mL	79
26) 24Dimthpheno	5.681	107	284917	10.0143	ug/mL	84
27) bis2clethoxym	5.815	93	388383	10.1783	ug/mL	89
28) 24Diclphenol	5.914	162	266873	10.0530	ug/mL	96
29) 124Triclbenz	6.011	180	333690	10.4315	ug/mL	99
30) Benzoic acid	5.783	105	154213	10.3417	ug/mL	83
31) Naphthalene	6.093	128	1065884	10.2535	ug/mL	99
32) 4-Cl-aniline	6.170	127	403017	10.8964	ug/mL	90
33) 26Diclphenol	6.170	162	251201	10.6515	ug/mL	98
34) Hexaclprop	6.192	213	168199	10.2288	ug/mL	99
35) Hexaclbutdien	6.235	225	156317	10.4365	ug/mL	99
36) 4Cl3methylphe	6.664	107	259780	10.2987	ug/mL	83
37) 2Methylnaphth	6.781	141	597862	10.3408	ug/mL	98
38) 1Methylnaphth	6.863	141	632913	10.4608	ug/mL	99
40) Hxclcycpentdi	6.911	237	170876	9.5650	ug/mL	96

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICAL3.D Vial: 6
Acq On : 2 Dec 2010 13:08 Operator: RPN
Sample : ICAL 3 10ug/ml SVMS4681 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 13:45:10 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 13:44:58 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

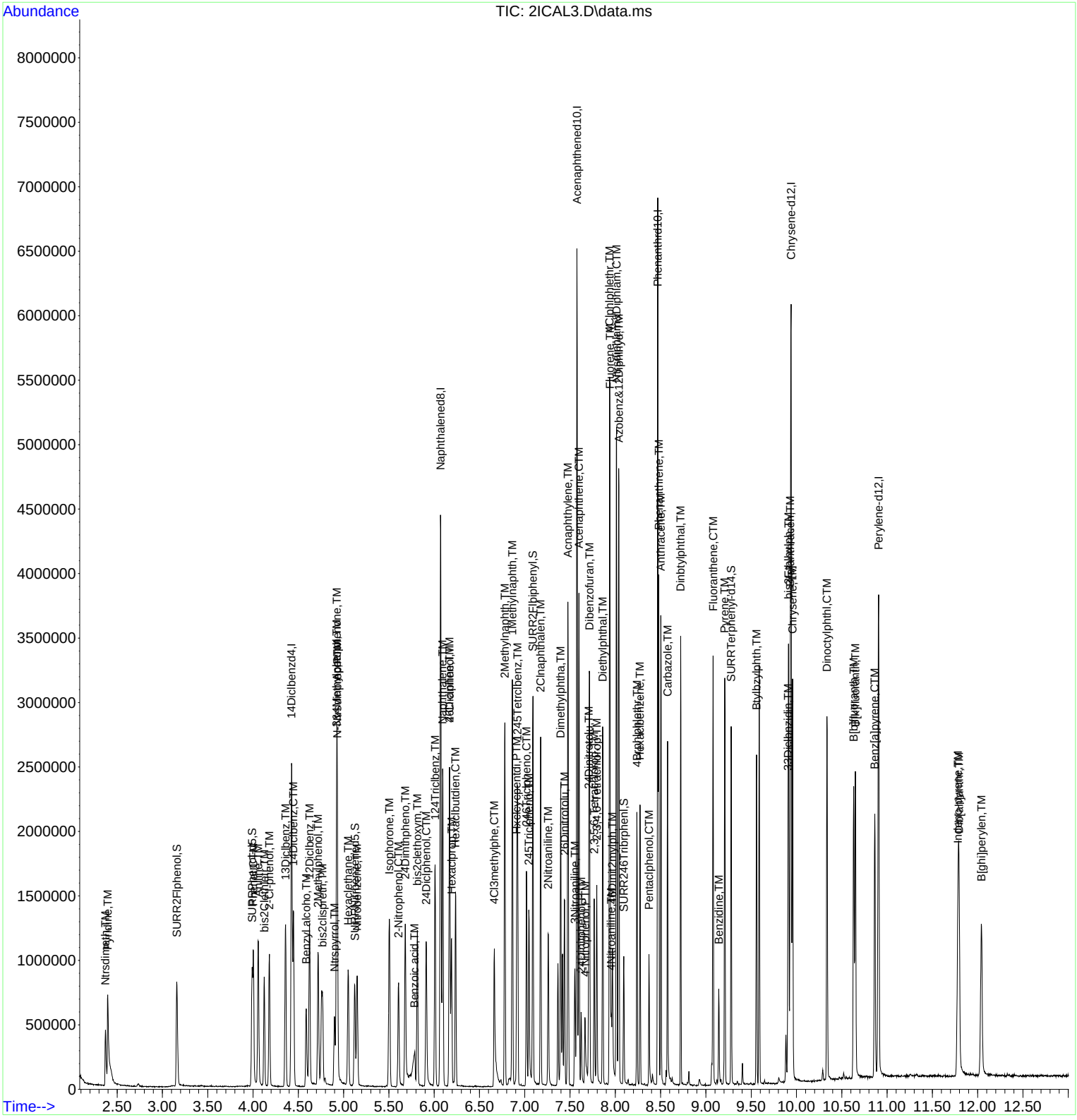
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1245Tetrclbenz	6.920	216	293495	10.5576	ug/mL	97
42) 246Triclpheno	7.019	196	192662	10.5380	ug/mL	88
43) 245Triclpheno	7.045	196	201128	10.3747	ug/mL	94
45) 2Clnaphthalen	7.176	162	641326	10.3958	ug/mL	97
46) 2Nitroaniline	7.258	65	149671	10.0420	ug/mL#	78
47) Acnaphthylene	7.477	152	1117472	10.6201	ug/mL	99
48) Dimethylphtha	7.397	163	754380	10.4626	ug/mL	100
49) 26Dinitrotolu	7.440	165	164839	10.7857	ug/mL	87
50) Acenaphthene	7.599	153	694131	10.4714	ug/mL	100
51) 3Nitroaniline	7.554	138	157471	9.9494	ug/mL	84
52) 24Dinitphenol	7.625	184	78627	11.8405	ug/mL#	69
53) Dibenzofuran	7.715	168	921897	10.7501	ug/mL	93
54) 24Dinitrotolu	7.707	165	208854	11.1985	ug/mL	81
55) 4-Nitrophenol	7.667	109	54817	10.7511	ug/mL	88
56) 2,3,5,6-Tetrachlorop	7.767	232	145431	9.8682	ug/mL	96
57) 2,3,4,6-Tetrachlorop	7.795	232	152909	9.7843	ug/mL	97
58) Fluorene	7.940	166	735158	10.6317	ug/mL	99
59) 4Clphlphlethr	7.937	204	333901	10.8816	ug/mL	95
60) Diethylphthal	7.860	149	769142	10.5501	ug/mL	99
61) 4Nitroaniline	7.954	138	168745	11.1111	ug/mL#	71
64) 46Dinit2mylph	7.968	198	108011	11.6559	ug/mL	94
65) Ntrsdiphlam&Diphlam	8.014	169	979528	21.5026	ug/mL	99
66) Azobenz&12Diphlhyd	8.039	182	374649	21.7304	ug/mL#	69
67) 4Brphlphlethr	8.238	248	176121	10.9346	ug/mL	88
68) Hexaclbenzene	8.272	284	183515	11.0172	ug/mL	98
69) Pentaclphenol	8.372	266	75543	12.5761	ug/mL	93
70) Phenanthrene	8.480	178	854167	10.4041	ug/mL	99
71) Anthracene	8.503	178	860536	10.2525	ug/mL	99
72) Carbazole	8.576	167	732060	10.4306	ug/mL	98
73) Dinbtylphthal	8.721	149	996230	10.1938	ug/mL	98
74) Fluoranthene	9.079	202	839490	10.0371	ug/mL	97
76) Benzidine	9.142	184	204653	10.3688	ug/mL	96
77) Pyrene	9.207	202	857972	9.9350	ug/mL	97
79) Btylbzylphth	9.560	149	433771	10.2749	ug/mL	86
80) 33Diclbnzidin	9.906	252	159008	9.6461	ug/mL	95
81) B[a]anthracen	9.932	228	792506	9.9514	ug/mL	99
82) Chrysene	9.957	228	761899	10.0693	ug/mL	97
83) bis2Ethlhxlph	9.912	149	632982	10.3223	ug/mL	100
84) Dinoctylphthl	10.335	149	1099334	10.3116	ug/mL	99
86) B[b]fluoranth	10.631	252	778743	10.5746	ug/mL	98
87) B[k]fluoranth	10.651	252	689880	9.4885	ug/mL	99
88) Benz[a]pyrene	10.864	252	692356	9.9733	ug/mL	98
89) Indeno-pyrene	11.782	276	694525	10.0003	ug/mL	91
90) Dib[ah]anthr	11.796	278	569749	10.1291	ug/mL	98
91) B[ghi]perylen	12.043	276	580245	10.0065	ug/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICAL3.D Vial: 6
Acq On : 2 Dec 2010 13:08 Operator: RPN
Sample : ICAL 3 10ug/ml SVMS4681 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 13:45:10 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 13:44:58 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICAL4.D Vial: 5
Acq On : 2 Dec 2010 12:48 Operator: RPN
Sample : ICAL 4 20ug/ml SVMS4682 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 13:28:00 2010

RPN
12/02/10

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 10:22:51 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.428	152	480653	20.00	ug/mL	0.00
21) Naphthalened8	6.073	136	2199649	20.00	ug/mL	0.00
39) Acenaphthened10	7.576	164	1168924	20.00	ug/mL	0.00
63) Phenanthrd10	8.469	188	1716493	20.00	ug/mL	0.00
75) Chrysene-d12	9.938	240	1597155	20.00	ug/mL	0.00
85) Perylene-d12	10.904	264	1415096	20.00	ug/mL	-0.01
System Monitoring Compounds						
4) SURR2Flphenol	3.161	112	611397	51.10	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery = 51.10%			
7) SURRPhenol-d5	3.993	99	724927	49.25	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 49.25%			
22) SURRNitrbenzened5	5.127	82	543214	94.13	%REC	-0.02
Spiked Amount 100.000	Range 40 - 110		Recovery = 94.13%			
44) SURR2Flbiphenyl	7.091	172	1555863	100.67	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 100.67%			
62) SURR246Tribrphenl	8.096	330	187012	64.69	%REC	0.01
Spiked Amount 100.000	Range 40 - 125		Recovery = 64.69%			
78) SURRTerphenyl-d14	9.276	244	1160722	97.10	ug/mL	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 97.10%			
Target Compounds						Qvalue
2) Ntrsdimeth	2.371	74	346431	20.0004	ug/mL	81
3) Pyridine	2.394	79	623245	20.3623	ug/mL	94
5) Aniline	4.059	93	943285	19.3742	ug/mL	89
6) bis2Clethletr	4.127	93	583196	19.2696	ug/mL	100
8) Phenol	4.008	94	727940	19.7507	ug/mL	85
9) 2-Cl-phenol	4.184	128	644091	19.9211	ug/mL	99
10) 13Diclbenz	4.360	146	748328	19.7056	ug/mL	98
11) 14Diclbenz	4.448	146	759415	20.0353	ug/mL	96
12) 12Diclbenz	4.624	146	715987	19.9134	ug/mL	95
13) Benzyl alcoho	4.590	108	338941	19.1553	ug/mL#	75
14) bis2clispreth	4.766	45	1089745	18.7603	ug/mL	96
15) 2Methylphenol	4.724	108	547222	19.4281	ug/mL	96
16) Ntrspyrrol	4.908	100	302820	20.7547	ug/mL	80
17) Acetophenone	4.931	105	817739	19.5176	ug/mL	84
18) Hexaclethane	5.050	117	257615	19.6340	ug/mL	95
19) N-Ntrsdinprop	4.937	70	364547	18.9037	ug/mL	93
20) 3&4Methylphenol	4.931	108	555956	19.5252	ug/mL	98
23) Nitrobenzene	5.156	77	560065	18.8315	ug/mL	82
24) Isophorone	5.511	82	1218273	19.3528	ug/mL	92
25) 2-Nitrophenol	5.610	139	419986	21.2983	ug/mL	77
26) 24Dimthpheno	5.684	107	631385	20.4097	ug/mL	84
27) bis2clethoxym	5.818	93	828981	19.7017	ug/mL	89
28) 24Diclphenol	5.914	162	596586	21.0136	ug/mL	99
29) 124Triclbenz	6.011	180	720278	21.0822	ug/mL	94
30) Benzoic acid	5.820	105	405254	23.1507	ug/mL	89
31) Naphthalene	6.096	128	2271234	20.0253	ug/mL	100
32) 4-Cl-aniline	6.173	127	867223	22.7153	ug/mL	92
33) 26Diclphenol	6.173	162	548490	21.4833	ug/mL	94
34) Hexaclprop	6.193	213	384499	22.2855	ug/mL	98
35) Hexaclbutdien	6.238	225	337564	21.2189	ug/mL	95
36) 4Cl3methylphe	6.664	107	575530	21.1627	ug/mL	87
37) 2Methylnaphth	6.781	141	1286576	20.3325	ug/mL	100
38) 1Methylnaphth	6.866	141	1335454	20.1221	ug/mL	98
40) Hxclcycpentdi	6.914	237	386976	20.1805	ug/mL	95

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICAL4.D Vial: 5
Acq On : 2 Dec 2010 12:48 Operator: RPN
Sample : ICAL 4 20ug/ml SVMS4682 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 13:28:00 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 10:22:51 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

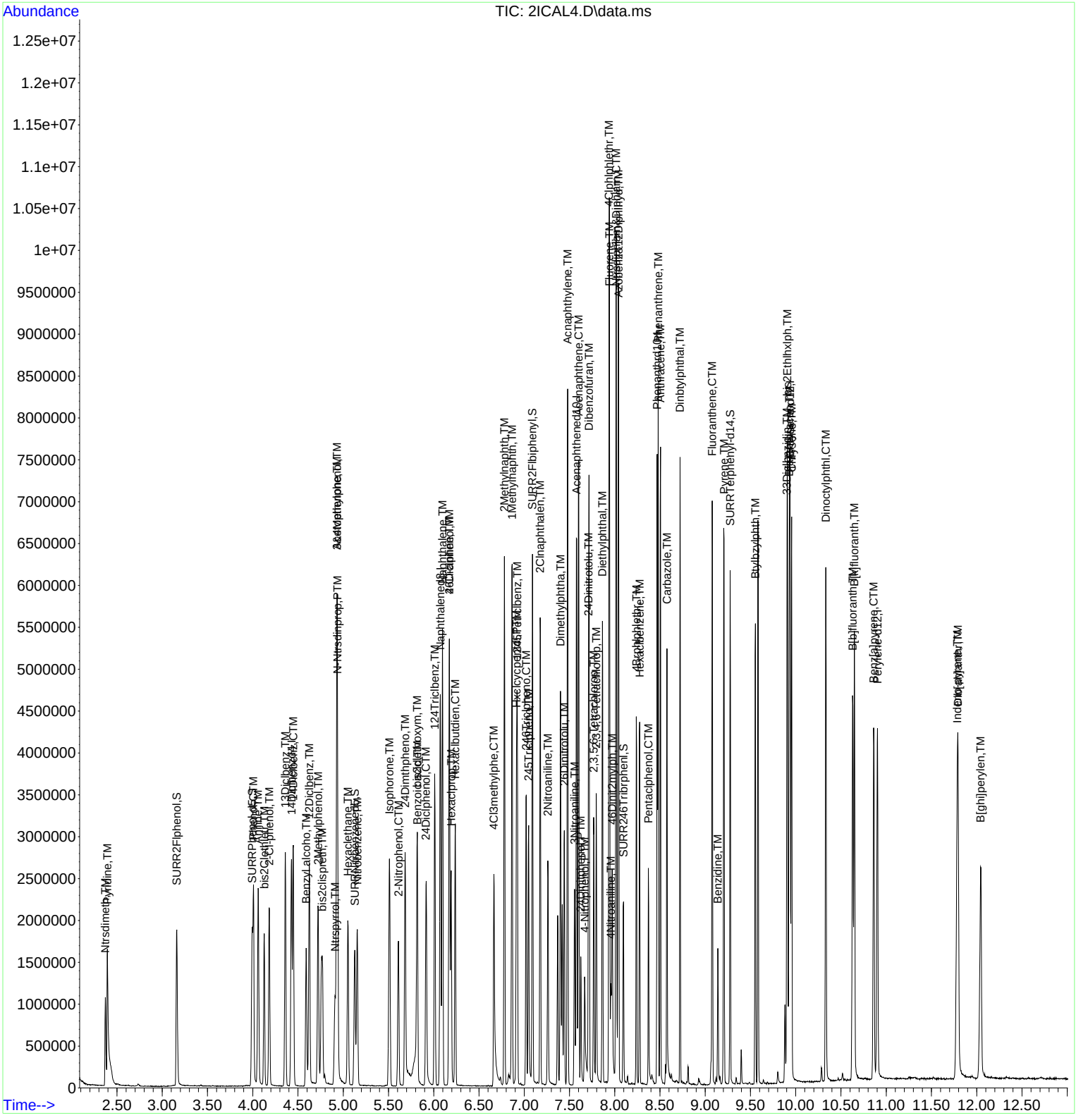
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	6.923	216	625199	20.9024 ug/mL	98
42) 246Triclpheno	7.022	196	423970	21.8959 ug/mL	91
43) 245Triclpheno	7.048	196	450079	21.8298 ug/mL	100
45) 2Clnaphthalen	7.176	162	1380367	20.3547 ug/mL	97
46) 2Nitroaniline	7.261	65	326967	19.6051 ug/mL#	66
47) Acnaphthylene	7.480	152	2345394	20.0454 ug/mL	98
48) Dimethylphtha	7.400	163	1617211	20.5805 ug/mL	99
49) 26Dinitrotolu	7.443	165	352972	21.8161 ug/mL	82
50) Acenaphthene	7.602	153	1468893	19.9594 ug/mL	99
51) 3Nitroaniline	7.557	138	370354	25.9809 ug/mL	88
52) 24Dinitphenol	7.625	184	197586	28.3131 ug/mL	72
53) Dibenzofuran	7.716	168	1919847	20.2851 ug/mL	95
54) 24Dinitrotolu	7.710	165	451812	22.8699 ug/mL	83
55) 4-Nitrophenol	7.667	109	116097	21.3349 ug/mL#	76
56) 2,3,5,6-Tetrachlorop	7.767	232	337283	25.7398 ug/mL	97
57) 2,3,4,6-Tetrachlorop	7.795	232	345158	22.9916 ug/mL	97
58) Fluorene	7.940	166	1514087	19.8555 ug/mL	100
59) 4Clphlphlethr	7.937	204	684578	20.5717 ug/mL	97
60) Diethylphthal	7.863	149	1623233	20.6445 ug/mL	98
61) 4Nitroaniline	7.957	138	363588	25.0218 ug/mL#	71
64) 46Dinit2mylph	7.971	198	254704	25.4601 ug/mL	94
65) Ntrsdiphlam&Diphlam	8.017	169	2047622	40.9608 ug/mL	99
66) Azobenz&12Diphlhyd	8.042	182	778577	40.7745 ug/mL#	67
67) 4Brphlphlethr	8.239	248	375367	22.2839 ug/mL	90
68) Hexaclbenzene	8.275	284	385586	22.2145 ug/mL	95
69) Pentaclphenol	8.372	266	185966	30.7056 ug/mL	96
70) Phenanthrene	8.480	178	1803488	19.7047 ug/mL	99
71) Anthracene	8.506	178	1835437	19.6077 ug/mL	99
72) Carbazole	8.577	167	1545045	22.2722 ug/mL	99
73) Dinbtylphthal	8.722	149	2174229	19.7859 ug/mL	99
74) Fluoranthene	9.077	202	1860360	20.1812 ug/mL	97
76) Benzidine	9.139	184	451432	25.0441 ug/mL	97
77) Pyrene	9.207	202	1883572	18.5083 ug/mL	92
79) Btylbzylphth	9.554	149	941842	19.0527 ug/mL	88
80) 33Diclbnzidin	9.904	252	361662	23.3865 ug/mL	100
81) B[a]anthracen	9.929	228	1771425	19.4154 ug/mL	97
82) Chrysene	9.955	228	1718315	19.9357 ug/mL	98
83) bis2Ethlhxlph	9.906	149	1379439	19.2370 ug/mL	98
84) Dinoctylphthl	10.333	149	2445326	19.9908 ug/mL	99
86) B[b]fluoranth	10.628	252	1689842	20.3715 ug/mL	98
87) B[k]fluoranth	10.648	252	1581360	18.9633 ug/mL	99
88) Benz[a]pyrene	10.861	252	1555111	19.7574 ug/mL	96
89) Indeno-pyrene	11.785	276	1586996	19.8920 ug/mL	94
90) Dib[ah]anthr	11.793	278	1285651	19.7954 ug/mL	98
91) B[ghi]perylen	12.043	276	1312942	19.7635 ug/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICAL4.D Vial: 5
Acq On : 2 Dec 2010 12:48 Operator: RPN
Sample : ICAL 4 20ug/ml SVMS4682 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 13:28:00 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 10:22:51 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICAL5.D Vial: 4
Acq On : 2 Dec 2010 12:28 Operator: RPN
Sample : ICAL 5 30ug/ml SVMS4683 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 13:44:23 2010

RPN
12/02/10

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 13:43:57 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.428	152	446560	20.00	ug/mL	0.00
21) Naphthalened8	6.070	136	2067137	20.00	ug/mL	0.00
39) Acenaphthened10	7.574	164	1084534	20.00	ug/mL	0.00
63) Phenanthrd10	8.466	188	1597232	20.00	ug/mL	0.00
75) Chrysene-d12	9.943	240	1495878	20.00	ug/mL	0.00
85) Perylene-d12	10.909	264	1336386	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	3.161	112	882712	79.51	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery = 79.51%			
7) SURRPhenol-d5	3.996	99	1046590	77.47	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 77.47%			
22) SURRNitrbenzened5	5.130	82	786446	151.00	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 151.00%#			
44) SURR2Flbiphenyl	7.088	172	2194790	155.39	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 155.39%#			
62) SURR246Tribrphenl	8.091	330	265139	89.76	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 89.76%			
78) SURRTerphenyl-d14	9.281	244	1685762	153.94	ug/mL	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 153.94%#			
Target Compounds						Qvalue
2) Ntrsdimeth	2.371	74	503571	31.7522	ug/mL	81
3) Pyridine	2.391	79	895468	31.6618	ug/mL	96
5) Aniline	4.062	93	1351281	30.5756	ug/mL	90
6) bis2Clethletr	4.127	93	829149	30.0460	ug/mL	99
8) Phenol	4.010	94	1041824	30.8849	ug/mL	85
9) 2-Cl-phenol	4.184	128	926391	30.9556	ug/mL	99
10) 13Diclbenz	4.360	146	1074840	30.5397	ug/mL	97
11) 14Diclbenz	4.448	146	1088734	31.0505	ug/mL	99
12) 12Diclbenz	4.627	146	1032140	31.0065	ug/mL	95
13) Benzyl alcoho	4.593	108	509327	30.5140	ug/mL#	75
14) bis2clispreth	4.769	45	1555690	29.5901	ug/mL	95
15) 2Methylphenol	4.724	108	781261	30.2847	ug/mL	98
16) Ntrspyrrol	4.917	100	431742	32.0562	ug/mL	83
17) Acetophenone	4.934	105	1168122	30.4836	ug/mL	84
18) Hexaclethane	5.053	117	368589	30.6610	ug/mL	98
19) N-Ntrsdinprop	4.942	70	526375	30.1678	ug/mL	93
20) 3&4Methylphenol	4.937	108	787024	30.1643	ug/mL	100
23) Nitrobenzene	5.158	77	787677	29.3572	ug/mL	81
24) Isophorone	5.514	82	1773575	30.8034	ug/mL	93
25) 2-Nitrophenol	5.610	139	597822	31.7917	ug/mL	76
26) 24Dimthpheno	5.684	107	899050	31.1511	ug/mL	89
27) bis2clethoxym	5.818	93	1180604	30.3327	ug/mL	89
28) 24Diclphenol	5.917	162	871782	32.5257	ug/mL	96
29) 124Triclbenz	6.011	180	1031902	31.9321	ug/mL	98
30) Benzoic acid	5.840	105	619181	31.8021	ug/mL	90
31) Naphthalene	6.096	128	3240183	30.6788	ug/mL	100
32) 4-Cl-aniline	6.170	127	1242732	33.5260	ug/mL	92
33) 26Diclphenol	6.170	162	757029	31.6325	ug/mL	98
34) Hexaclprop	6.190	213	553060	33.3978	ug/mL	100
35) Hexaclbutdien	6.235	225	484205	32.0518	ug/mL	95
36) 4Cl3methylphe	6.661	107	808920	31.5477	ug/mL	85
37) 2Methylnaphth	6.778	141	1811994	30.8194	ug/mL	97
38) 1Methylnaphth	6.860	141	1882223	30.5778	ug/mL	96
40) Hxclcycpentdi	6.912	237	565027	31.4600	ug/mL	99

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICAL5.D Vial: 4
Acq On : 2 Dec 2010 12:28 Operator: RPN
Sample : ICAL 5 30ug/ml SVMS4683 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 13:44:23 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 13:43:57 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

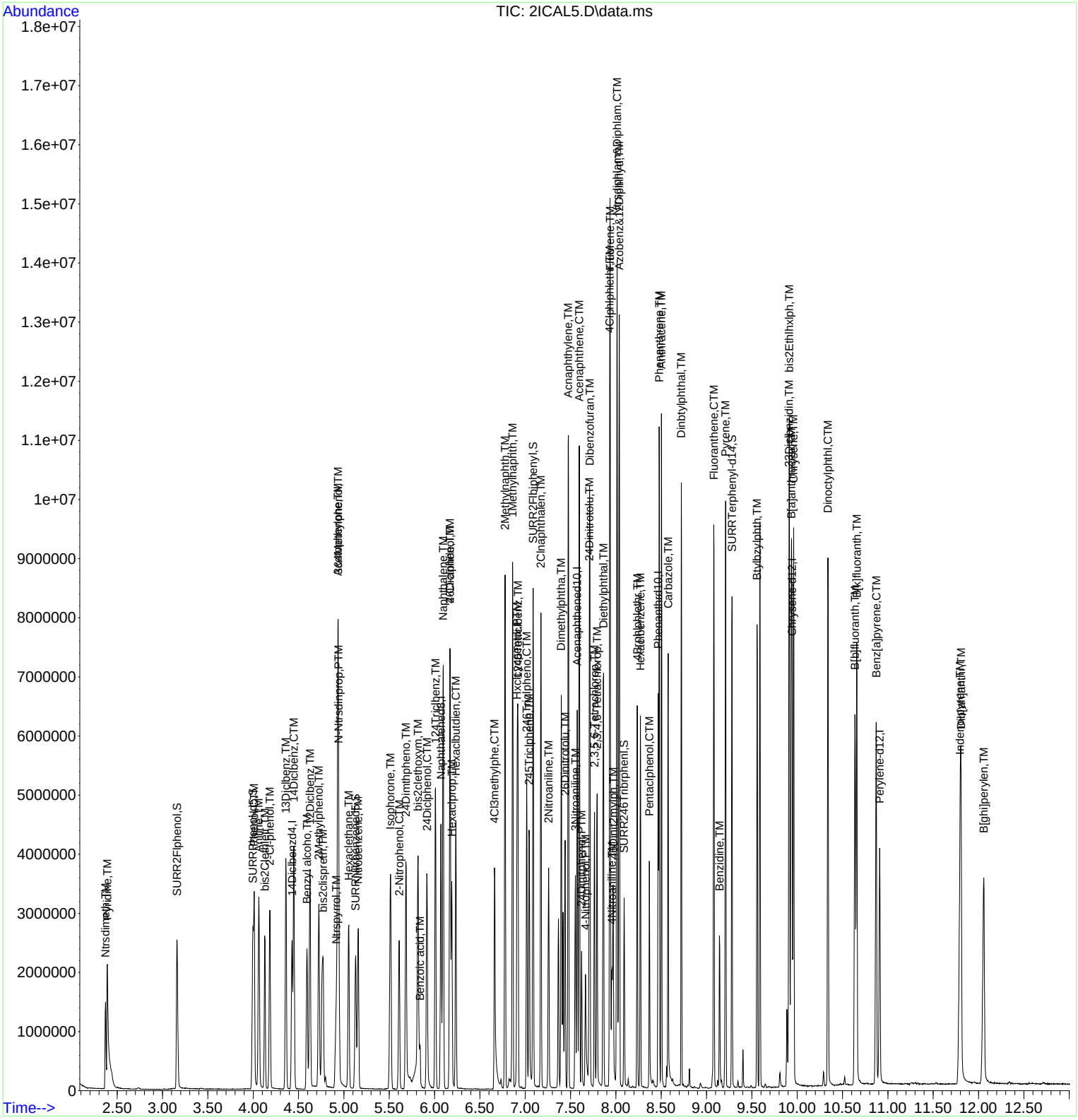
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1245Tetrclbenz	6.920	216	900227	32.3240	ug/mL	97
42) 246Triclpheno	7.017	196	611479	33.4509	ug/mL	91
43) 245Triclpheno	7.042	196	650620	33.5979	ug/mL	98
45) 2Clnaphthalen	7.173	162	1950819	31.3033	ug/mL	97
46) 2Nitroaniline	7.258	65	463664	30.6950	ug/mL#	66
47) Acnaphthylene	7.474	152	3269765	30.6194	ug/mL	97
48) Dimethylphtha	7.397	163	2294917	31.5886	ug/mL	99
49) 26Dinitrotolu	7.440	165	503250	32.8899	ug/mL	85
50) Acenaphthene	7.596	153	2080645	31.0262	ug/mL	100
51) 3Nitroaniline	7.554	138	549214	36.0212	ug/mL	86
52) 24Dinitphenol	7.622	184	301121	33.9262	ug/mL#	71
53) Dibenzofuran	7.713	168	2673668	30.8644	ug/mL	95
54) 24Dinitrotolu	7.707	165	625145	33.5317	ug/mL	86
55) 4-Nitrophenol	7.665	109	172413	33.8801	ug/mL	83
56) 2,3,5,6-Tetrachlorop	7.764	232	467764	32.7655	ug/mL	95
57) 2,3,4,6-Tetrachlorop	7.792	232	500227	32.6410	ug/mL	97
58) Fluorene	7.937	166	2090137	29.8575	ug/mL	99
59) 4Clphlphlethr	7.932	204	965043	31.2721	ug/mL	97
60) Diethylphthal	7.863	149	2301478	31.3714	ug/mL	98
61) 4Nitroaniline	7.957	138	492074	33.0589	ug/mL#	72
64) 46Dinit2mylph	7.971	198	367929	32.3635	ug/mL	89
65) Ntrsdiphlam&Diphlam	8.014	169	2868581	61.6233	ug/mL	99
66) Azobenz&12Diphlhyd	8.037	182	1075626	60.8580	ug/mL#	76
67) 4Brphlphlethr	8.236	248	532743	32.6549	ug/mL	91
68) Hexaclbenzene	8.270	284	547488	32.4317	ug/mL	98
69) Pentaclphenol	8.369	266	287121	34.3692	ug/mL	96
70) Phenanthrene	8.477	178	2607643	30.9473	ug/mL	100
71) Anthracene	8.503	178	2664787	30.9424	ug/mL	99
72) Carbazole	8.577	167	2197531	31.3817	ug/mL	98
73) Dinbtylphthal	8.722	149	3157904	31.3172	ug/mL	99
74) Fluoranthene	9.080	202	2680521	31.2830	ug/mL	97
76) Benzidine	9.142	184	738979	32.9985	ug/mL	97
77) Pyrene	9.210	202	2745546	29.8973	ug/mL	93
79) Btylbzylphth	9.557	149	1368099	30.4918	ug/mL	91
80) 33Diclbnzidin	9.909	252	530468	31.2859	ug/mL	97
81) B[a]anthracen	9.935	228	2550011	30.2959	ug/mL	98
82) Chrysene	9.960	228	2464414	30.8709	ug/mL	99
83) bis2Ethlhxlph	9.912	149	1982898	30.4771	ug/mL	99
84) Dinoctylphthl	10.338	149	3567780	31.7322	ug/mL	100
86) B[b]fluoranth	10.637	252	2323473	29.5439	ug/mL	98
87) B[k]fluoranth	10.657	252	2485394	32.4826	ug/mL	99
88) Benz[a]pyrene	10.872	252	2243357	30.4666	ug/mL	97
89) Indeno-pyrene	11.796	276	2248152	30.3554	ug/mL	94
90) Dib[ah]anthr	11.807	278	1838301	30.6336	ug/mL	95
91) B[ghi]perylen	12.057	276	1855594	29.9671	ug/mL	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICAL5.D Vial: 4
Acq On : 2 Dec 2010 12:28 Operator: RPN
Sample : ICAL 5 30ug/ml SVMS4683 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 13:44:23 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 13:43:57 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICAL6.D Vial: 3
Acq On : 2 Dec 2010 12:07 Operator: RPN
Sample : ICAL 6 40ug/ml SVMS4684 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 13:42:53 2010

RPN
12/02/10

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 13:42:34 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Compound		R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards							
1) 14Diclbenzd4		4.428	152	471593	20.00	ug/mL	0.00
21) Naphthalened8		6.076	136	2216620	20.00	ug/mL	0.00
39) Acenaphthened10		7.582	164	1164854	20.00	ug/mL	0.00
63) Phenanthrd10		8.471	188	1668839	20.00	ug/mL	0.00
75) Chrysene-d12		9.932	240	1572868	20.00	ug/mL	0.00
85) Perylene-d12		10.898	264	1346120	20.00	ug/mL	0.00
System Monitoring Compounds							
4) SURR2Flphenol		3.161	112	1224391	104.27	%REC	0.00
Spiked Amount	100.000	Range 20 - 110		Recovery = 104.27%			
7) SURRPhenol-d5		3.999	99	1469368	102.47	%REC	0.00
Spiked Amount	100.000	Range 10 - 115		Recovery = 102.47%			
22) SURRNitrbenzened5		5.133	82	1120415	197.72	%REC	0.00
Spiked Amount	100.000	Range 40 - 110		Recovery = 197.72%#			
44) SURR2Flbiphenyl		7.096	172	3068976	200.76	%REC	0.00
Spiked Amount	100.000	Range 50 - 110		Recovery = 200.76%#			
62) SURR246Tribrphenl		8.102	330	380069	123.34	%REC	0.00
Spiked Amount	100.000	Range 40 - 125		Recovery = 123.34%			
78) SURRTerphenyl-d14		9.270	244	2318632	198.58	ug/mL	0.00
Spiked Amount	100.000	Range 50 - 135		Recovery = 198.58%#			
Target Compounds							Qvalue
2) Ntrsdimeth		2.371	74	690805	40.9847	ug/mL	86
3) Pyridine		2.391	79	1264287	42.1767	ug/mL	98
5) Aniline		4.064	93	1892844	40.0311	ug/mL	89
6) bis2Clethletr		4.130	93	1159107	39.4441	ug/mL	100
8) Phenol		4.016	94	1457695	40.6173	ug/mL	86
9) 2-Cl-phenol		4.187	128	1326650	41.8375	ug/mL	97
10) 13Diclbenz		4.363	146	1503503	40.4034	ug/mL	98
11) 14Diclbenz		4.451	146	1497520	40.3127	ug/mL	98
12) 12Diclbenz		4.627	146	1441552	40.9817	ug/mL	95
13) Benzyl alcoho		4.599	108	732217	39.9716	ug/mL#	75
14) bis2clispreth		4.772	45	2221900	39.5827	ug/mL	97
15) 2Methylphenol		4.726	108	1117723	40.7456	ug/mL	99
16) Ntrspyrrol		4.922	100	592614	41.3455	ug/mL	87
17) Acetophenone		4.937	105	1620061	39.7246	ug/mL	86
18) Hexaclethane		5.053	117	505455	39.5499	ug/mL	97
19) N-Ntrsdinprop		4.951	70	729302	39.0771	ug/mL	98
20) 3&4Methylphenol		4.942	108	1086755	39.1499	ug/mL	95
23) Nitrobenzene		5.164	77	1140066	38.9867	ug/mL	82
24) Isophorone		5.522	82	2544074	40.8077	ug/mL	92
25) 2-Nitrophenol		5.616	139	853787	42.7266	ug/mL	79
26) 24Dimthpheno		5.692	107	1280201	41.1053	ug/mL	88
27) bis2clethoxym		5.823	93	1675192	39.8448	ug/mL	88
28) 24Diclphenol		5.923	162	1233065	42.8954	ug/mL	98
29) 124Triclbenz		6.016	180	1444835	41.8061	ug/mL	97
30) Benzoic acid		5.869	105	935658	44.0468	ug/mL	90
31) Naphthalene		6.102	128	4599561	40.4631	ug/mL	100
32) 4-Cl-aniline		6.178	127	1733760	43.6332	ug/mL	94
33) 26Diclphenol		6.178	162	1055860	40.9620	ug/mL	97
34) Hexaclprop		6.195	213	785212	44.5271	ug/mL	98
35) Hexaclbutdien		6.241	225	687647	42.6510	ug/mL	97
36) 4Cl3methylphe		6.670	107	1173840	42.6912	ug/mL	86
37) 2Methylnaphth		6.786	141	2532985	39.9769	ug/mL	97
38) 1Methylnaphth		6.869	141	2628033	39.5417	ug/mL	97
40) Hxclcycpentdi		6.917	237	802038	41.5680	ug/mL	98

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICAL6.D Vial: 3
Acq On : 2 Dec 2010 12:07 Operator: RPN
Sample : ICAL 6 40ug/ml SVMS4684 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 13:42:53 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 13:42:34 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

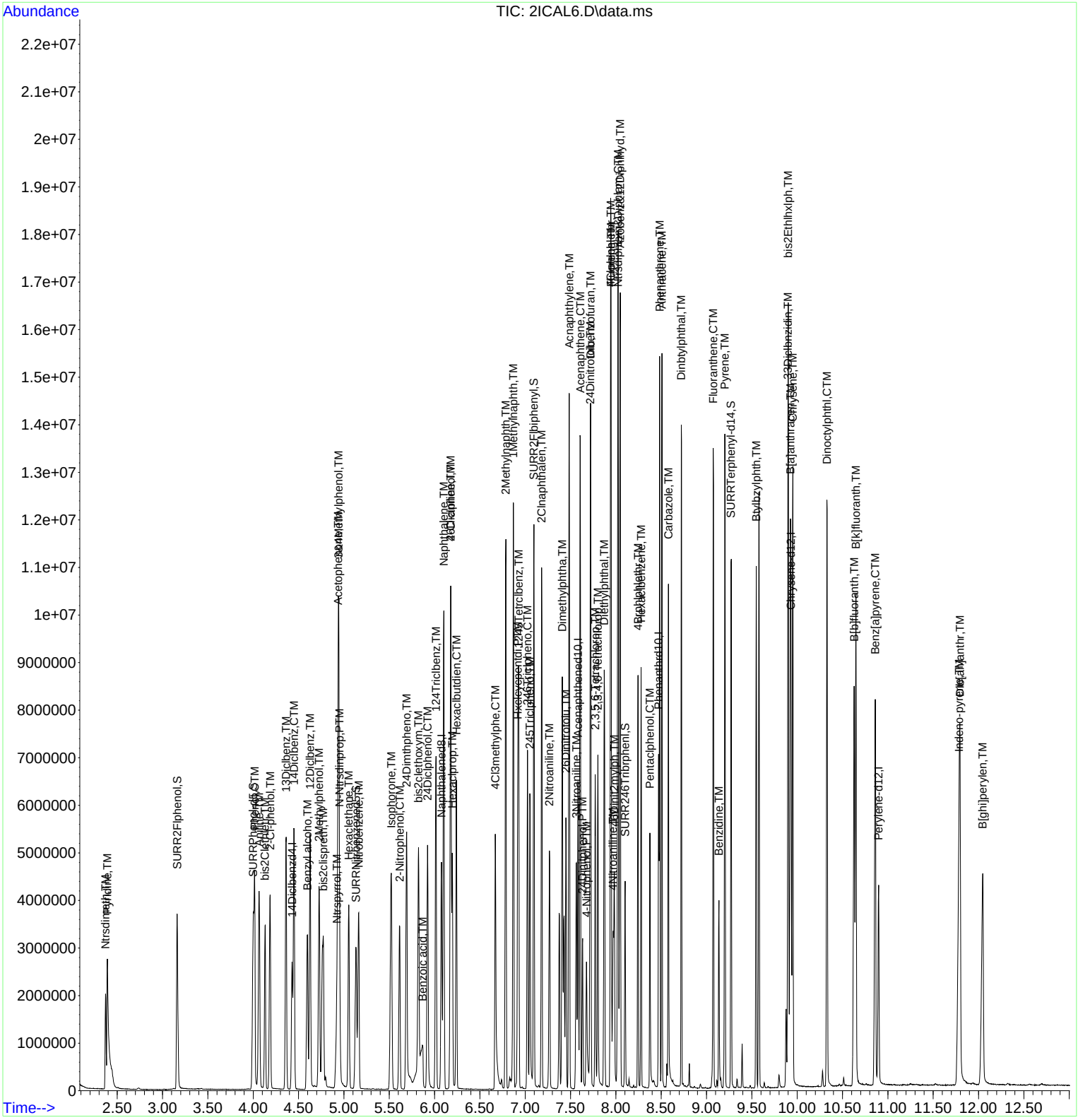
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1245Tetrclbenz	6.929	216	1245554	41.6115	ug/mL	98
42) 246Triclpheno	7.025	196	860031	43.9645	ug/mL	92
43) 245Triclpheno	7.051	196	910729	43.9263	ug/mL	98
45) 2Clnaphthalen	7.181	162	2722988	40.4303	ug/mL	97
46) 2Nitroaniline	7.267	65	655556	39.9940	ug/mL#	68
47) Acnaphthylene	7.485	152	4555019	39.4563	ug/mL	97
48) Dimethylphtha	7.409	163	3210956	41.0243	ug/mL	98
49) 26Dinitrotolu	7.449	165	704970	43.1187	ug/mL	84
50) Acenaphthene	7.608	153	2866427	39.5110	ug/mL	99
51) 3Nitroaniline	7.565	138	785361	50.1340	ug/mL	85
52) 24Dinitphenol	7.633	184	441821	46.1803	ug/mL	71
53) Dibenzofuran	7.721	168	3647552	38.9934	ug/mL	97
54) 24Dinitrotolu	7.718	165	848016	42.4485	ug/mL	90
55) 4-Nitrophenol	7.676	109	240110	44.0851	ug/mL	88
56) 2,3,5,6-Tetrachlorop	7.772	232	676385	46.5707	ug/mL	96
57) 2,3,4,6-Tetrachlorop	7.801	232	700886	44.0197	ug/mL	97
58) Fluorene	7.946	166	2924860	38.7451	ug/mL	99
59) 4Clphlphlethr	7.943	204	1303014	39.2277	ug/mL	96
60) Diethylphthal	7.872	149	3189218	40.4561	ug/mL	97
61) 4Nitroaniline	7.968	138	750534	48.7904	ug/mL#	73
64) 46Dinit2mylph	7.983	198	524946	44.1486	ug/mL	93
65) Ntrsdiphlam&Diphlam	8.025	169	3928511	80.8058	ug/mL	98
66) Azobenz&12Diphlhyd	8.048	182	1468925	79.3799	ug/mL#	72
67) 4Brphlphlethr	8.244	248	743895	44.1563	ug/mL	88
68) Hexaclbenzene	8.278	284	770597	44.3822	ug/mL	96
69) Pentaclphenol	8.375	266	416084	45.9925	ug/mL	94
70) Phenanthrene	8.483	178	3602160	40.7870	ug/mL	99
71) Anthracene	8.508	178	3702198	41.0283	ug/mL	97
72) Carbazole	8.579	167	3076334	43.4389	ug/mL	98
73) Dinbtylphthal	8.721	149	4326015	40.8700	ug/mL	98
74) Fluoranthene	9.074	202	3734126	41.7104	ug/mL	100
76) Benzidine	9.136	184	1093537	45.6994	ug/mL	98
77) Pyrene	9.202	202	3851324	39.2255	ug/mL	95
79) Btylbzylphth	9.548	149	1916984	40.1464	ug/mL	88
80) 33Diclbnzidin	9.898	252	783947	44.8449	ug/mL	95
81) B[a]anthracen	9.926	228	3607950	40.5926	ug/mL	98
82) Chrysene	9.952	228	3456210	40.9725	ug/mL	98
83) bis2Ethlhxlph	9.901	149	2730140	39.4236	ug/mL	99
84) Dinoctylphthl	10.330	149	4921439	41.3695	ug/mL	100
86) B[b]fluoranth	10.628	252	3325785	41.9495	ug/mL	98
87) B[k]fluoranth	10.648	252	3198454	41.1902	ug/mL	99
88) Benz[a]pyrene	10.861	252	3124106	42.0310	ug/mL	97
89) Indeno-pyrene	11.785	276	3097717	41.1865	ug/mL	92
90) Dib[ah]anthr	11.796	278	2532092	41.5056	ug/mL	96
91) B[ghi]perylen	12.046	276	2592885	41.3103	ug/mL	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICAL6.D Vial: 3
Acq On : 2 Dec 2010 12:07 Operator: RPN
Sample : ICAL 6 40ug/ml SVMS4684 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 13:42:53 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 13:42:34 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICAL7.D Vial: 2
Acq On : 2 Dec 2010 11:47 Operator: RPN
Sample : ICAL 7 50ug/ml SVMS4685 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 13:44:07 2010

RPN
12/02/10

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 13:43:57 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Compound		R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards							
1) 14Diclbenzd4		4.431	152	497057	20.00	ug/mL	0.00
21) Naphthalened8		6.073	136	2320822	20.00	ug/mL	0.00
39) Acenaphthened10		7.576	164	1216212	20.00	ug/mL	0.00
63) Phenanthrd10		8.469	188	1747309	20.00	ug/mL	0.00
75) Chrysene-d12		9.952	240	1606301	20.00	ug/mL	0.01
85) Perylene-d12		10.915	264	1403608	20.00	ug/mL	0.01
System Monitoring Compounds							
4) SURR2Flphenol		3.161	112	1576195	127.55	%REC	0.00
Spiked Amount	100.000	Range 20 - 110		Recovery = 127.55%#			
7) SURRPhenol-d5		4.002	99	1873674	124.60	%REC	0.00
Spiked Amount	100.000	Range 10 - 115		Recovery = 124.60%#			
22) SURRNitrbenzened5		5.136	82	1429455	244.47	%REC	0.00
Spiked Amount	100.000	Range 40 - 110		Recovery = 244.47%#			
44) SURR2Flbiphenyl		7.091	172	3818537	241.08	%REC	0.00
Spiked Amount	100.000	Range 50 - 110		Recovery = 241.08%#			
62) SURR246Tribrphenl		8.096	330	488342	147.42	%REC	0.00
Spiked Amount	100.000	Range 40 - 125		Recovery = 147.42%#			
78) SURRTerphenyl-d14		9.287	244	2944875	250.43	ug/mL	0.01
Spiked Amount	100.000	Range 50 - 135		Recovery = 250.43%#			
Target Compounds							Qvalue
2) Ntrsdimeth		2.374	74	891637	50.5097	ug/mL	84
3) Pyridine		2.391	79	1646264	52.2948	ug/mL	99
5) Aniline		4.067	93	2417460	49.1431	ug/mL	89
6) bis2Clethletr		4.133	93	1477245	48.0929	ug/mL	100
8) Phenol		4.019	94	1872368	49.8674	ug/mL	84
9) 2-Cl-phenol		4.187	128	1678912	50.4019	ug/mL	99
10) 13Diclbenz		4.363	146	1899565	48.4897	ug/mL	98
11) 14Diclbenz		4.451	146	1908025	48.8883	ug/mL	97
12) 12Diclbenz		4.630	146	1809503	48.8368	ug/mL	94
13) Benzyl alcoho		4.601	108	948302	48.9191	ug/mL	78
14) bis2clispreth		4.775	45	2846013	48.6333	ug/mL	95
15) 2Methylphenol		4.729	108	1417397	49.3620	ug/mL	97
16) Ntrspyrrol		4.931	100	749734	50.0114	ug/mL	96
17) Acetophenone		4.940	105	2065313	48.4214	ug/mL	85
18) Hexaclethane		5.053	117	640557	47.8713	ug/mL	99
19) N-Ntrsdinprop		4.954	70	934177	48.1007	ug/mL	89
20) 3&4Methylphenol		4.951	108	1392156	47.9366	ug/mL	99
23) Nitrobenzene		5.167	77	1457453	48.3826	ug/mL	80
24) Isophorone		5.525	82	3227056	49.9210	ug/mL	93
25) 2-Nitrophenol		5.616	139	1084674	51.3769	ug/mL	77
26) 24Dimthpheno		5.693	107	1628227	50.2496	ug/mL	88
27) bis2clethoxym		5.823	93	2132137	48.7921	ug/mL	88
28) 24Diclphenol		5.923	162	1561248	51.8822	ug/mL	98
29) 124Triclbenz		6.014	180	1804553	49.7377	ug/mL	96
30) Benzoic acid		5.886	105	1197724	49.2616	ug/mL	87
31) Naphthalene		6.099	128	5744671	48.4464	ug/mL	100
32) 4-Cl-aniline		6.176	127	2180240	52.3885	ug/mL	93
33) 26Diclphenol		6.176	162	1312165	48.8356	ug/mL	95
34) Hexaclprop		6.193	213	979891	52.7049	ug/mL	97
35) Hexaclbutdien		6.238	225	846098	49.8851	ug/mL	95
36) 4Cl3methylphe		6.667	107	1478232	51.3491	ug/mL	86
37) 2Methylnaphth		6.781	141	3146779	47.6717	ug/mL	98
38) 1Methylnaphth		6.863	141	3271624	47.3397	ug/mL	97
40) Hxclcycpentdi		6.912	237	1013298	50.3108	ug/mL	99

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICAL7.D Vial: 2
Acq On : 2 Dec 2010 11:47 Operator: RPN
Sample : ICAL 7 50ug/ml SVMS4685 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 13:44:07 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 13:43:57 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

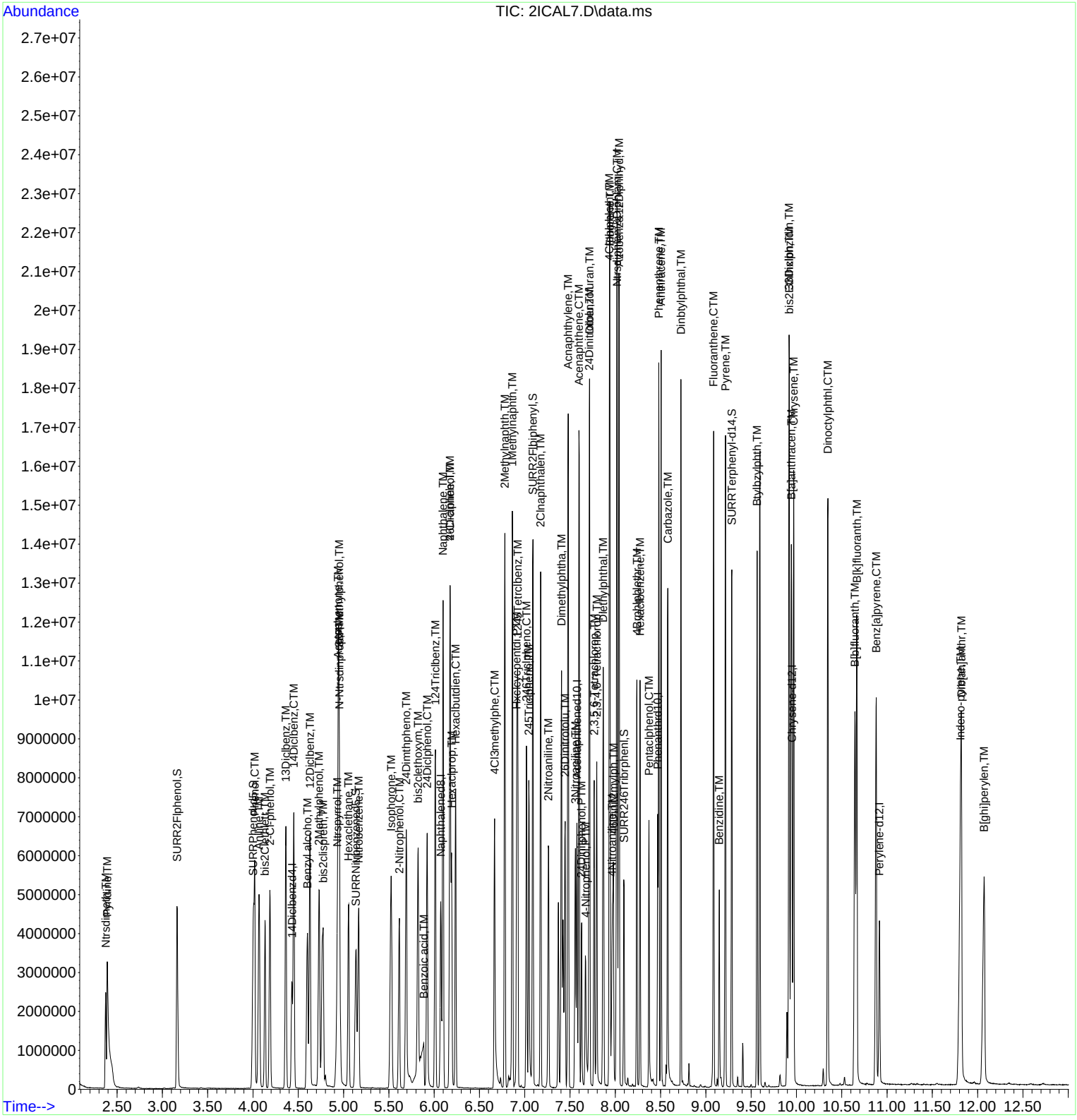
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	6.923	216	1554974	49.7886 ug/mL	97
42) 246Triclpheno	7.020	196	1092628	53.3007 ug/mL	93
43) 245Triclpheno	7.045	196	1167538	53.7637 ug/mL	99
45) 2Clnaphthalen	7.176	162	3430735	49.0902 ug/mL	97
46) 2Nitroaniline	7.261	65	833100	49.1808 ug/mL#	67
47) Acnaphthylene	7.480	152	5669612	47.3442 ug/mL	96
48) Dimethylphtha	7.406	163	4006185	49.1732 ug/mL	98
49) 26Dinitrotolu	7.446	165	884884	51.5702 ug/mL	81
50) Acenaphthene	7.599	153	3556613	47.2935 ug/mL	98
51) 3Nitroaniline	7.559	138	1000968	58.5424 ug/mL	87
52) 24Dinitphenol	7.628	184	563660	49.3565 ug/mL	73
53) Dibenzofuran	7.716	168	4477371	46.0901 ug/mL	97
54) 24Dinitrotolu	7.713	165	1054213	50.4239 ug/mL	92
55) 4-Nitrophenol	7.673	109	311655	54.6113 ug/mL	86
56) 2,3,5,6-Tetrachlorop	7.767	232	858045	53.5961 ug/mL	96
57) 2,3,4,6-Tetrachlorop	7.795	232	889770	51.7735 ug/mL	96
58) Fluorene	7.940	166	3612046	46.0114 ug/mL	100
59) 4Clphlphlethr	7.934	204	1601956	46.2909 ug/mL	97
60) Diethylphthal	7.866	149	4046565	49.1867 ug/mL	97
61) 4Nitroaniline	7.966	138	903007	54.0983 ug/mL#	72
64) 46Dinit2mylph	7.980	198	675269	49.5974 ug/mL	88
65) Ntrsdiphlam&Diphlam	8.020	169	4959713	97.3942 ug/mL	98
66) Azobenz&12Diphlhyd	8.042	182	1836649	94.9906 ug/mL#	71
67) 4Brphlphlethr	8.239	248	950899	53.2799 ug/mL	88
68) Hexaclbenzene	8.273	284	957671	51.8573 ug/mL	95
69) Pentaclphenol	8.372	266	545145	49.4232 ug/mL	96
70) Phenanthrene	8.480	178	4485851	48.6650 ug/mL	99
71) Anthracene	8.506	178	4525716	48.0371 ug/mL	99
72) Carbazole	8.579	167	3920963	51.1838 ug/mL	97
73) Dinbtylphthal	8.724	149	4963226	44.9931 ug/mL	95
74) Fluoranthene	9.085	202	4807390	51.2857 ug/mL	99
76) Benzidine	9.148	184	1433559	50.1357 ug/mL	98
77) Pyrene	9.216	202	4885367	49.5416 ug/mL	96
79) Btylbzylphth	9.565	149	2378559	49.3684 ug/mL	90
80) 33Diclbnzidin	9.918	252	1023483	50.8174 ug/mL	98
81) B[a]anthracen	9.943	228	4497738	49.7629 ug/mL	99
82) Chrysene	9.969	228	4315165	50.3387 ug/mL	98
83) bis2Ethlhxlph	9.921	149	3349785	47.9468 ug/mL	99
84) Dinoctylphthl	10.347	149	6108434	50.5943 ug/mL	100
86) B[b]fluoranth	10.645	252	4506748	54.5607 ug/mL	97
87) B[k]fluoranth	10.668	252	3830589	47.6659 ug/mL	99
88) Benz[a]pyrene	10.881	252	3922184	50.7153 ug/mL	97
89) Indeno-pyrene	11.810	276	3916777	50.3530 ug/mL	92
90) Dib[ah]anthr	11.822	278	3230502	51.2551 ug/mL	97
91) B[ghi]perylen	12.072	276	3272367	50.3165 ug/mL	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICAL7.D Vial: 2
Acq On : 2 Dec 2010 11:47 Operator: RPN
Sample : ICAL 7 50ug/ml SVMS4685 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 13:44:07 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 13:43:57 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICV1.D Vial: 9
Acq On : 2 Dec 2010 14:10 Operator: RPN
Sample : ICV 1 20ug/ml SVMS4686 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 14:33:36 2010

RPN
12/02/10

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 14:33:20 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Compound		R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards							
1) 14Diclbenzd4		4.425	152	514539	20.00	ug/mL	0.00
21) Naphthalened8		6.071	136	2311544	20.00	ug/mL	0.00
39) Acenaphthened10		7.574	164	1186636	20.00	ug/mL	0.00
63) Phenanthrd10		8.466	188	1773794	20.00	ug/mL	0.00
75) Chrysene-d12		9.938	240	1627497	20.00	ug/mL	0.00
85) Perylene-d12		10.907	264	1429018	20.00	ug/mL	0.00
System Monitoring Compounds							
4) SURR2Flphenol		3.158	112	630746	49.24	%REC	0.00
Spiked Amount	100.000	Range 20 - 110		Recovery = 49.24%			
7) SURRPhenol-d5		3.991	99	746523	48.52	%REC	0.00
Spiked Amount	100.000	Range 10 - 115		Recovery = 48.52%			
22) SURRNitrbenzened5		5.127	82	570116	102.20	%REC	0.00
Spiked Amount	100.000	Range 40 - 110		Recovery = 102.20%			
44) SURR2Flbiphenyl		7.085	172	1577102	101.58	%REC	0.00
Spiked Amount	100.000	Range 50 - 110		Recovery = 101.58%			
62) SURR246Tribrphenl		8.088	330	178781	49.83	%REC	0.00
Spiked Amount	100.000	Range 40 - 125		Recovery = 49.83%			
78) SURRTerphenyl-d14		9.276	244	1185961	100.32	ug/mL	0.00
Spiked Amount	100.000	Range 50 - 135		Recovery = 100.32%			
Target Compounds							Qvalue
2) Ntrsdimeth		2.368	74	363429	19.8917	ug/mL	84
3) Pyridine		2.391	79	661185	20.3697	ug/mL	96
5) Aniline		4.059	93	990106	19.9622	ug/mL	89
6) bis2Clethletr		4.127	93	623760	20.2609	ug/mL	98
8) Phenol		4.008	94	759867	20.0359	ug/mL	85
9) 2-Cl-phenol		4.181	128	684736	19.8228	ug/mL	98
10) 13Diclbenz		4.360	146	781373	19.5831	ug/mL	98
11) 14Diclbenz		4.448	146	808018	19.9306	ug/mL	95
12) 12Diclbenz		4.624	146	752902	19.5734	ug/mL	94
13) Benzyl alcoho		4.590	108	365313	20.4748	ug/mL#	73
14) bis2clispreth		4.763	45	1140226	19.4454	ug/mL	95
15) 2Methylphenol		4.721	108	565203	19.4896	ug/mL	96
16) Ntrspyrrol		4.908	100	309411	20.1863	ug/mL	82
17) Acetophenone		4.928	105	849347	19.6274	ug/mL	84
18) Hexaclethane		5.050	117	263270	19.4671	ug/mL	92
19) N-Ntrsdinprop		4.937	70	383897	19.8206	ug/mL	97
20) 3&4Methylphenol		4.931	108	584118	20.1960	ug/mL	97
23) Nitrobenzene		5.153	77	593076	20.8122	ug/mL	84
24) Isophorone		5.511	82	1265876	20.1253	ug/mL	93
25) 2-Nitrophenol		5.607	139	436346	20.4789	ug/mL	74
26) 24Dimthpheno		5.681	107	652141	20.1976	ug/mL	88
27) bis2clethoxym		5.815	93	867879	20.0129	ug/mL	89
28) 24Diclphenol		5.914	162	629158	20.8682	ug/mL	97
29) 124Triclbenz		6.008	180	745534	19.9723	ug/mL	97
30) Benzoic acid		5.820	105	444760	20.4330	ug/mL	91
31) Naphthalene		6.093	128	2383523	20.2043	ug/mL	100
32) 4-Cl-aniline		6.167	127	893513	20.1913	ug/mL	92
33) 26Diclphenol		6.170	162	540113	19.7850	ug/mL	96
34) Hexaclprop		6.190	213	389491	20.2895	ug/mL	98
35) Hexaclbutdien		6.232	225	349090	19.8904	ug/mL	95
36) 4Cl3methylphe		6.662	107	590770	20.4867	ug/mL	87
37) 2Methylnaphth		6.775	141	1318398	20.0206	ug/mL	100
38) 1Methylnaphth		6.860	141	1376131	20.1342	ug/mL	96
40) Hxclcycpentdi		6.909	237	398303	20.1545	ug/mL	97

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICV1.D Vial: 9
Acq On : 2 Dec 2010 14:10 Operator: RPN
Sample : ICV 1 20ug/ml SVMS4686 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 14:33:36 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 14:33:20 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

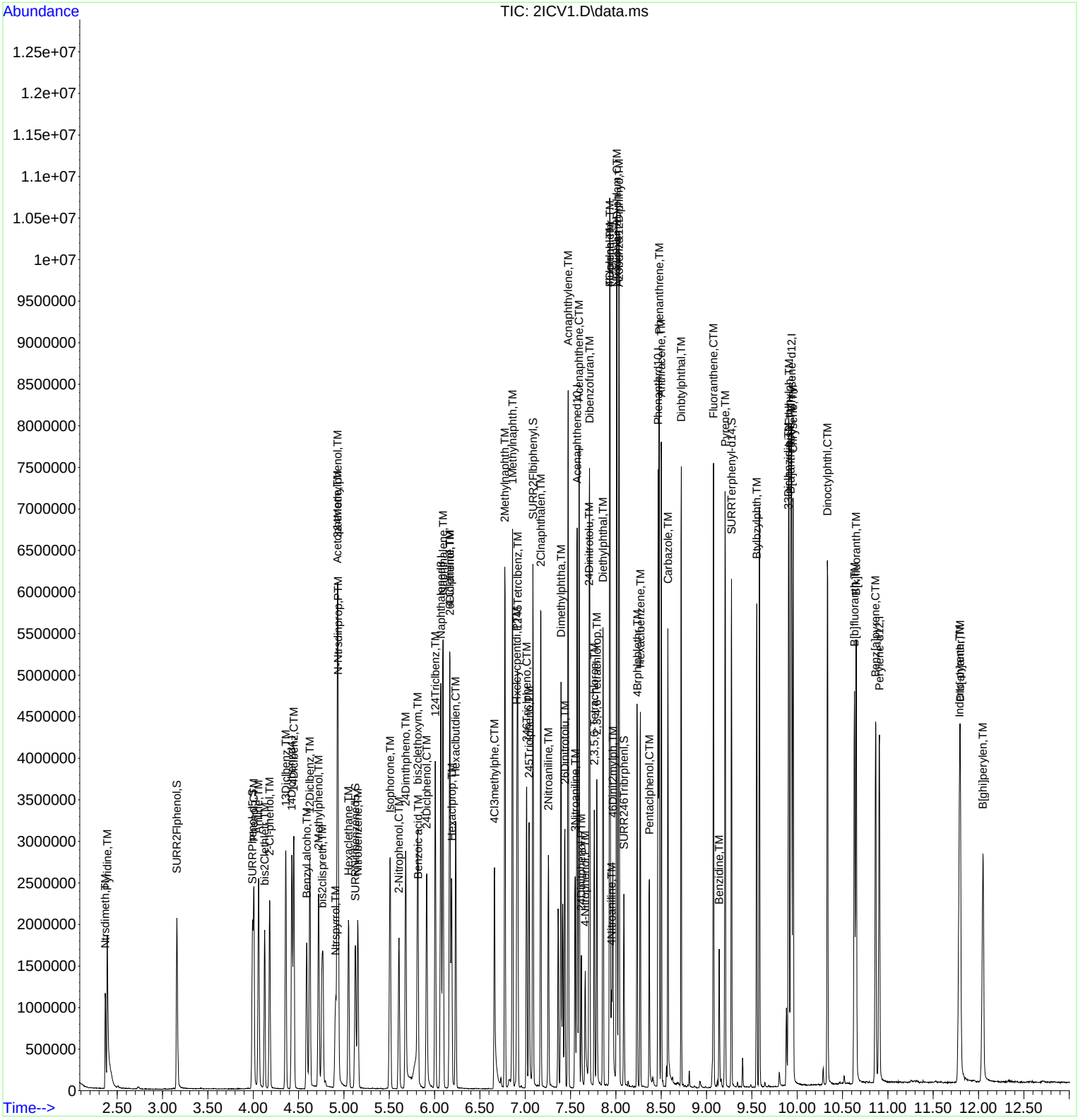
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1245Tetrclbenz	6.917	216	645291	20.4165	ug/mL	96
42) 246Triclpheno	7.017	196	430211	20.6645	ug/mL	94
43) 245Triclpheno	7.042	196	453871	20.5257	ug/mL	98
45) 2Clnaphthalen	7.173	162	1399469	20.4158	ug/mL	98
46) 2Nitroaniline	7.255	65	342023	21.3683	ug/mL#	70
47) Acnaphthylene	7.474	152	2396062	20.4025	ug/mL	98
48) Dimethylphtha	7.395	163	1669221	20.7216	ug/mL	98
49) 26Dinitrotolu	7.437	165	361639	20.7548	ug/mL	83
50) Acenaphthene	7.594	153	1510830	20.4622	ug/mL	99
51) 3Nitroaniline	7.551	138	381575	20.4610	ug/mL	85
52) 24Dinitphenol	7.619	184	197921	19.2777	ug/mL	76
53) Dibenzofuran	7.710	168	1970486	20.5108	ug/mL	95
54) 24Dinitrotolu	7.704	165	458050	21.2358	ug/mL	85
55) 4-Nitrophenol	7.662	109	121054	20.2560	ug/mL	79
56) 2,3,5,6-Tetrachlorop	7.761	232	336963	20.0372	ug/mL	96
57) 2,3,4,6-Tetrachlorop	7.790	232	356592	20.2087	ug/mL	96
58) Fluorene	7.934	166	1540116	19.8813	ug/mL	99
59) 4Clphlphlethr	7.932	204	700096	20.3173	ug/mL	97
60) Diethylphthal	7.858	149	1661023	20.4286	ug/mL	99
61) 4Nitroaniline	7.952	138	377184	20.6088	ug/mL#	71
64) 46Dinit2mylph	7.966	198	265029	20.6193	ug/mL	95
65) Ntrsdiphlam&Diphlam	8.011	169	2104433	39.9427	ug/mL	97
66) Azobenz&12Diphlhyd	8.034	182	798212	40.1030	ug/mL#	77
67) 4Brphlphlethr	8.236	248	399717	20.7663	ug/mL	85
68) Hexaclbenzene	8.270	284	391868	19.6273	ug/mL	95
69) Pentaclphenol	8.369	266	193685	19.5745	ug/mL	95
70) Phenanthrene	8.477	178	1877265	19.9594	ug/mL	99
71) Anthracene	8.500	178	1915421	20.0872	ug/mL	98
72) Carbazole	8.574	167	1648165	20.4028	ug/mL	98
73) Dinbtylphthal	8.722	149	2269136	20.8046	ug/mL	99
74) Fluoranthene	9.077	202	1930797	20.3431	ug/mL	97
76) Benzidine	9.139	184	453500	18.6985	ug/mL	98
77) Pyrene	9.205	202	1987987	20.4834	ug/mL	94
79) Btylbzylphth	9.554	149	976210	20.6867	ug/mL	88
80) 33Diclbnzidin	9.904	252	364533	19.4917	ug/mL	97
81) B[a]anthracen	9.929	228	1839795	20.3266	ug/mL	98
82) Chrysene	9.955	228	1749702	20.1762	ug/mL	98
83) bis2Ethlhxlph	9.909	149	1432229	20.8825	ug/mL	99
84) Dinoctylphthl	10.333	149	2522263	20.6975	ug/mL	99
86) B[b]fluoranth	10.631	252	1630216	19.3672	ug/mL	98
87) B[k]fluoranth	10.651	252	1707615	21.4769	ug/mL	97
88) Benz[a]pyrene	10.864	252	1572560	20.4687	ug/mL	98
89) Indeno-pyrene	11.790	276	1642269	21.0520	ug/mL	94
90) Dib[ah]anthr	11.799	278	1351643	21.3547	ug/mL	98
91) B[ghi]perylen	12.049	276	1369556	21.1360	ug/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICV1.D Vial: 9
Acq On : 2 Dec 2010 14:10 Operator: RPN
Sample : ICV 1 20ug/ml SVMS4686 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 14:33:36 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 14:33:20 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M



Initial Calibration Verification Report

Data File Name	2ICV1.D
Data File Path	C:\INSTARCH\DATA\2S120210B\
Operator	RPN
Date Acquired	12/2/2010 14:10
Acq. Method File	2S120210.M
Sample Name	ICV 1 20ug/ml SVMS4686
Misc Info	500uL+5uL IS S2263B
Vial Number	9
Instrument Name	SVMS2
Sample Multiplier	1

#	Name	Ret Time	Amount	Units	Response	70-130 %REC
1)	14Diclbenzd4	4.43	20.00	ug/mL	514539	ISTD
2)	Ntrsdimeth	2.37	19.89	ug/mL	363429	99
3)	Pyridine	2.39	20.37	ug/mL	661185	102
4)	SURR2Flphenol	3.16	49.24	%REC	630746	98
5)	Aniline	4.06	19.96	ug/mL	990106	100
6)	bis2Clethletr	4.13	20.26	ug/mL	623760	101
7)	SURRPhenol-d5	3.99	48.52	%REC	746523	97
8)	Phenol	4.01	20.04	ug/mL	759867	100
9)	2-Cl-phenol	4.18	19.82	ug/mL	684736	99
10)	13Diclbenz	4.36	19.58	ug/mL	781373	98
11)	14Diclbenz	4.45	19.93	ug/mL	808018	100
12)	12Diclbenz	4.62	19.57	ug/mL	752902	98
13)	Benzyl alcoho	4.59	20.47	ug/mL	365313	102
14)	bis2clispreth	4.76	19.45	ug/mL	1140226	97
15)	2Methylphenol	4.72	19.49	ug/mL	565203	97
16)	Ntrspyrrol	4.91	20.19	ug/mL	309411	101
17)	Acetophenone	4.93	19.63	ug/mL	849347	98
18)	Hexaclethane	5.05	19.47	ug/mL	263270	97
19)	N-Ntrsdinprop	4.94	19.82	ug/mL	383897	99
20)	3&4Methylphenol	4.93	20.20	ug/mL	584118	101
21)	Naphthalened8	6.07	20.00	ug/mL	2311544	ISTD
22)	SURRNitrbenzened5	5.13	102.20	%REC	570116	102
23)	Nitrobenzene	5.15	20.81	ug/mL	593076	104
24)	Isophorone	5.51	20.13	ug/mL	1265876	101
25)	2-Nitrophenol	5.61	20.48	ug/mL	436346	102
26)	24Dimthpheno	5.68	20.20	ug/mL	652141	101
27)	bis2clethoxym	5.81	20.01	ug/mL	867879	100
28)	24Diclphenol	5.91	20.87	ug/mL	629158	104
29)	124Triclbenz	6.01	19.97	ug/mL	745534	100
30)	Benzoic acid	5.82	20.43	ug/mL	444760	102
31)	Naphthalene	6.09	20.20	ug/mL	2383523	101
32)	4-Cl-aniline	6.17	20.19	ug/mL	893513	101
33)	26Diclphenol	6.17	19.78	ug/mL	540113	99
34)	Hexaclprop	6.19	20.29	ug/mL	389491	101
35)	Hexaclbutdien	6.23	19.89	ug/mL	349090	99
36)	4Cl3methylphe	6.66	20.49	ug/mL	590770	102
37)	2Methylnaphth	6.78	20.02	ug/mL	1318398	100

38) 1Methylnaphth	6.86	20.13	ug/mL	1376131	101
39) Acenaphthened10	7.57	20.00	ug/mL	1186636	ISTD
40) Hxclcycpentdi	6.91	20.15	ug/mL	398303	101
41) 1245Tetrclbenz	6.92	20.42	ug/mL	645291	102
42) 246Triclpheno	7.02	20.66	ug/mL	430211	103
43) 245Triclpheno	7.04	20.53	ug/mL	453871	103
44) SURR2Flbiphenyl	7.08	101.58	%REC	1577102	102
45) 2Clnaphthalen	7.17	20.42	ug/mL	1399469	102
46) 2Nitroaniline	7.26	21.37	ug/mL	342023	107
47) Acnaphthylene	7.47	20.40	ug/mL	2396062	102
48) Dimethylphtha	7.39	20.72	ug/mL	1669221	104
49) 26Dinitrotolu	7.44	20.75	ug/mL	361639	104
50) Acenaphthene	7.59	20.46	ug/mL	1510830	102
51) 3Nitroaniline	7.55	20.46	ug/mL	381575	102
52) 24Dinitphenol	7.62	19.28	ug/mL	197921	96
53) Dibenzofuran	7.71	20.51	ug/mL	1970486	103
54) 24Dinitrotolu	7.70	21.24	ug/mL	458050	106
55) 4-Nitrophenol	7.66	20.26	ug/mL	121054	101
56) 2,3,5,6-Tetrachlorop	7.76	20.04	ug/mL	336963	100
57) 2,3,4,6-Tetrachlorop	7.79	20.21	ug/mL	356592	101
58) Fluorene	7.93	19.88	ug/mL	1540116	99
59) 4Clphlphlethr	7.93	20.32	ug/mL	700096	102
60) Diethylphthal	7.86	20.43	ug/mL	1661023	102
61) 4Nitroaniline	7.95	20.61	ug/mL	377184	103
62) SURR246Tribrphenl	8.09	49.83	%REC	178781	100
63) Phenanthrd10	8.47	20.00	ug/mL	1773794	ISTD
64) 46Dinit2mylph	7.97	20.62	ug/mL	265029	103
65) Ntrsdiphlam&Diphlam	8.01	39.94	ug/mL	2104433	100
66) Azobenz&12Diphlhyd	8.03	40.10	ug/mL	798212	100
67) 4Brphlphlethr	8.24	20.77	ug/mL	399717	104
68) Hexaclbenzene	8.27	19.63	ug/mL	391868	98
69) Pentaclphenol	8.37	19.57	ug/mL	193685	98
70) Phenanthrene	8.48	19.96	ug/mL	1877265	100
71) Anthracene	8.50	20.09	ug/mL	1915421	100
72) Carbazole	8.57	20.40	ug/mL	1648165	102
73) Dinbtylphthal	8.72	20.80	ug/mL	2269136	104
74) Fluoranthene	9.08	20.34	ug/mL	1930797	102
75) Chrysene-d12	9.94	20.00	ug/mL	1627497	ISTD
76) Benzidine	9.14	18.70	ug/mL	453500	93
77) Pyrene	9.20	20.48	ug/mL	1987987	102
78) SURRTerphenyl-d14	9.28	100.32	ug/mL	1185961	100
79) Btylbzylphth	9.55	20.69	ug/mL	976210	103
80) 33Diclbnzidin	9.90	19.49	ug/mL	364533	97
81) B[a]anthracen	9.93	20.33	ug/mL	1839795	102
82) Chrysene	9.95	20.18	ug/mL	1749702	101
83) bis2Ethlhxlph	9.91	20.88	ug/mL	1432229	104
84) Dinoctylphthl	10.33	20.70	ug/mL	2522263	103
85) Perylene-d12	10.91	20.00	ug/mL	1429018	ISTD
86) B[b]fluoranth	10.63	19.37	ug/mL	1630216	97
87) B[k]fluoranth	10.65	21.48	ug/mL	1707615	107

88) Benz[a]pyrene	10.86	20.47	ug/mL	1572560	102
89) Indeno-pyrene	11.79	21.05	ug/mL	1642269	105
90) Dib[ah]anthr	11.80	21.35	ug/mL	1351643	107
91) B[ghi]perylen	12.05	21.14	ug/mL	1369556	106

(#) = recovery out of range Average Percent Recovery = 101

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICV2.D Vial: 10
Acq On : 2 Dec 2010 14:30 Operator: RPN
Sample : ICV 2 40ug/ml SVMS4687 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 16:39:15 2010

RPN
12/02/10

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 14:33:20 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Compound		R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards							
1) 14Diclbenzd4		4.428	152	460930	20.00	ug/mL	0.00
21) Naphthalened8		6.073	136	2153787	20.00	ug/mL	0.00
39) Acenaphthened10		7.577	164	1135107	20.00	ug/mL	0.00
63) Phenanthrd10		8.469	188	1618718	20.00	ug/mL	0.00
75) Chrysene-d12		9.943	240	1507777	20.00	ug/mL	0.00
85) Perylene-d12		10.910	264	1249255	20.00	ug/mL	0.00
System Monitoring Compounds							
4) SURR2Flphenol		3.161	112	1166774	101.68	%REC	0.00
Spiked Amount	100.000	Range 20 - 110		Recovery = 101.68%			
7) SURRPhenol-d5		3.999	99	1394275	101.15	%REC	0.00
Spiked Amount	100.000	Range 10 - 115		Recovery = 101.15%			
22) SURRNitrbenzened5		5.133	82	1068669	205.61	%REC	0.00
Spiked Amount	100.000	Range 40 - 110		Recovery = 205.61%#			
44) SURR2Flbiphenyl		7.091	172	2951732	198.75	%REC	0.00
Spiked Amount	100.000	Range 50 - 110		Recovery = 198.75%#			
62) SURR246Tribrphenl		8.097	330	354605	103.32	%REC	0.00
Spiked Amount	100.000	Range 40 - 125		Recovery = 103.32%			
78) SURRTerphenyl-d14		9.281	244	2206227	201.45	ug/mL	0.00
Spiked Amount	100.000	Range 50 - 135		Recovery = 201.45%#			
Target Compounds							Qvalue
2) Ntrsdimeth		2.374	74	664788	40.6180	ug/mL	84
3) Pyridine		2.394	79	1235324	42.4840	ug/mL	97
5) Aniline		4.064	93	1814730	40.8435	ug/mL	90
6) bis2Clethletr		4.130	93	1113709	40.3828	ug/mL	99
8) Phenol		4.013	94	1403436	41.3093	ug/mL	86
9) 2-Cl-phenol		4.184	128	1250395	40.4084	ug/mL	97
10) 13Diclbenz		4.363	146	1436706	40.1953	ug/mL	96
11) 14Diclbenz		4.448	146	1442886	39.7297	ug/mL	100
12) 12Diclbenz		4.627	146	1377370	39.9725	ug/mL	93
13) Benzyl alcoho		4.596	108	717758	40.9407	ug/mL	80
14) bis2clispreth		4.772	45	2124498	40.4450	ug/mL	97
15) 2Methylphenol		4.727	108	1081229	41.6197	ug/mL	97
16) Ntrspyrrol		4.923	100	565608	41.1926	ug/mL	87
17) Acetophenone		4.937	105	1566911	40.4209	ug/mL	85
18) Hexaclethane		5.053	117	483015	39.8698	ug/mL	97
19) N-Ntrsdinprop		4.948	70	718563	41.4143	ug/mL	98
20) 3&4Methylphenol		4.942	108	1057933	40.8326	ug/mL	98
23) Nitrobenzene		5.161	77	1096206	41.2856	ug/mL	83
24) Isophorone		5.519	82	2469952	42.1443	ug/mL	94
25) 2-Nitrophenol		5.613	139	822291	41.4190	ug/mL	77
26) 24Dimthpheno		5.690	107	1242150	41.2886	ug/mL	89
27) bis2clethoxym		5.821	93	1623808	40.1869	ug/mL	88
28) 24Diclphenol		5.920	162	1190417	42.3764	ug/mL	97
29) 124Triclbenz		6.011	180	1383841	39.7875	ug/mL	99
30) Benzoic acid		5.863	105	910774	41.0655	ug/mL	87
31) Naphthalene		6.096	128	4445134	40.4398	ug/mL	100
32) 4-Cl-aniline		6.173	127	1694270	41.0908	ug/mL	94
33) 26Diclphenol		6.173	162	976545	38.3921	ug/mL	94
34) Hexaclprop		6.193	213	758242	42.3918	ug/mL	99
35) Hexaclbutdien		6.235	225	646454	39.5315	ug/mL	96
36) 4Cl3methylphe		6.664	107	1142047	42.5046	ug/mL	86
37) 2Methylnaphth		6.781	141	2450821	39.9432	ug/mL	97
38) 1Methylnaphth		6.863	141	2567736	40.3204	ug/mL	99
40) Hxclcycpentdi		6.912	237	783112	40.7503	ug/mL	99

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICV2.D Vial: 10
Acq On : 2 Dec 2010 14:30 Operator: RPN
Sample : ICV 2 40ug/ml SVMS4687 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 16:39:15 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 14:33:20 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

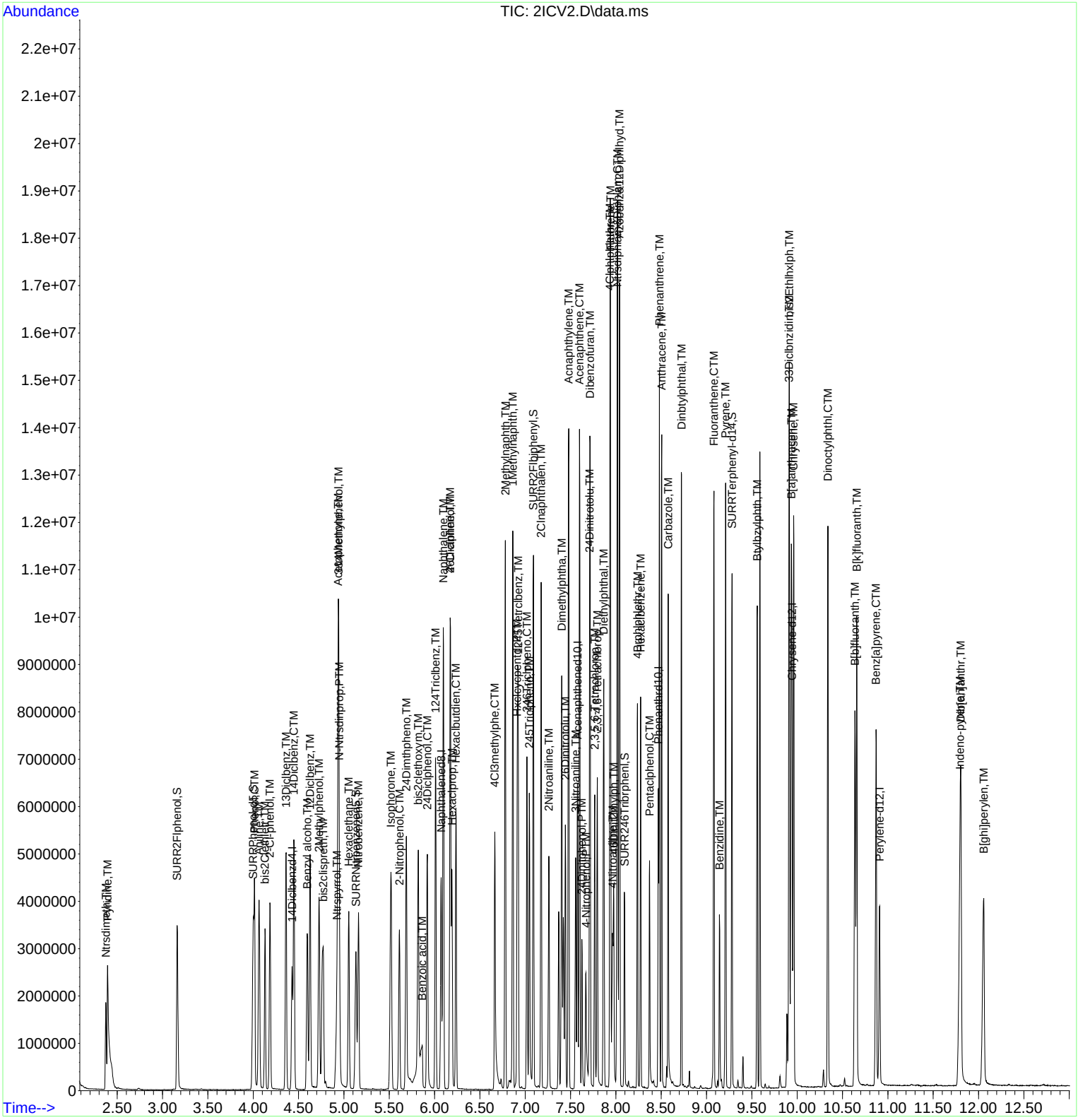
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	6.923	216	1230708	40.7063 ug/mL	97
42) 246Triclpheno	7.020	196	840950	42.2274 ug/mL	94
43) 245Triclpheno	7.045	196	889615	42.0580 ug/mL	95
45) 2Clnaphthalen	7.176	162	2642894	40.3054 ug/mL	99
46) 2Nitroaniline	7.261	65	623385	40.7148 ug/mL#	67
47) Acnaphthylene	7.480	152	4405978	39.2200 ug/mL	98
48) Dimethylphtha	7.403	163	3131184	40.6348 ug/mL	99
49) 26Dinitrotolu	7.443	165	684972	41.0957 ug/mL	87
50) Acenaphthene	7.599	153	2799154	39.6319 ug/mL	99
51) 3Nitroaniline	7.557	138	758033	42.4928 ug/mL	89
52) 24Dinitphenol	7.625	184	413039	39.2271 ug/mL	74
53) Dibenzofuran	7.716	168	3543587	38.5596 ug/mL	97
54) 24Dinitrotolu	7.710	165	821489	39.8143 ug/mL	88
55) 4-Nitrophenol	7.670	109	227430	39.7835 ug/mL	85
56) 2,3,5,6-Tetrachlorop	7.767	232	642754	39.6050 ug/mL	99
57) 2,3,4,6-Tetrachlorop	7.795	232	686307	40.6013 ug/mL	96
58) Fluorene	7.940	166	2798426	37.7648 ug/mL	100
59) 4Clphlphlethr	7.935	204	1267047	38.4399 ug/mL	99
60) Diethylphthal	7.866	149	3106295	39.9379 ug/mL	99
61) 4Nitroaniline	7.963	138	727969	41.5808 ug/mL#	74
64) 46Dinit2mylph	7.977	198	502262	42.8195 ug/mL	89
65) Ntrsdiphlam&Diphlam	8.017	169	3850327	80.0814 ug/mL	99
66) Azobenz&12Diphlhyd	8.040	182	1449083	79.7781 ug/mL#	76
67) 4Brphlphlethr	8.239	248	725570	41.3065 ug/mL	88
68) Hexaclbenzene	8.273	284	732612	40.2093 ug/mL	95
69) Pentaclphenol	8.372	266	380648	38.4781 ug/mL	99
70) Phenanthrene	8.480	178	3426022	39.9157 ug/mL	99
71) Anthracene	8.506	178	3532977	40.6001 ug/mL	97
72) Carbazole	8.577	167	2956076	40.0993 ug/mL	97
73) Dinbtylphthal	8.724	149	4245094	42.6499 ug/mL	99
74) Fluoranthene	9.082	202	3623687	41.8372 ug/mL	96
76) Benzidine	9.142	184	1040090	40.4033 ug/mL	98
77) Pyrene	9.210	202	3680904	40.9380 ug/mL	94
79) Btylbzylphth	9.560	149	1839525	42.0763 ug/mL	86
80) 33Diclbnzidin	9.909	252	792827	42.3186 ug/mL	97
81) B[a]anthracen	9.935	228	3412465	40.6954 ug/mL	99
82) Chrysene	9.960	228	3323428	41.3661 ug/mL	98
83) bis2Ethlhxlph	9.912	149	2639870	41.5466 ug/mL	100
84) Dinoctylphthl	10.338	149	4721743	41.8227 ug/mL	100
86) B[b]fluoranth	10.637	252	2990240	40.6362 ug/mL	97
87) B[k]fluoranth	10.657	252	3088472	44.4336 ug/mL	98
88) Benz[a]pyrene	10.870	252	2826166	42.0791 ug/mL	97
89) Indeno-pyrene	11.796	276	2744039	40.2370 ug/mL	90
90) Dib[ah]anthr	11.805	278	2243434	40.5444 ug/mL	98
91) B[ghi]perylen	12.057	276	2247664	39.6790 ug/mL	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICV2.D Vial: 10
Acq On : 2 Dec 2010 14:30 Operator: RPN
Sample : ICV 2 40ug/ml SVMS4687 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 16:39:15 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 14:33:20 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M



Initial Calibration Verification Report

Data File Name	2ICV2.D
Data File Path	C:\INSTARCH\DATA\2S120210B\
Operator	RPN
Date Acquired	12/2/2010 14:30
Acq. Method File	2S120210.M
Sample Name	ICV 2 40ug/ml SVMS4687
Misc Info	500uL+5uL IS S2263B
Vial Number	10
Instrument Name	SVMS2
Sample Multiplier	1

#	Name	Ret Time	Amount	Units	Response	70-130 %REC
1)	14Diclbenzd4	4.43	20.00	ug/mL	460930	ISTD
2)	Ntrsdimeth	2.37	40.62	ug/mL	664788	102
3)	Pyridine	2.39	42.48	ug/mL	1235324	106
4)	SURR2Flphenol	3.16	101.68	%REC	1166774	102
5)	Aniline	4.06	40.84	ug/mL	1814730	102
6)	bis2Clethletr	4.13	40.38	ug/mL	1113709	101
7)	SURRPhenol-d5	4.00	101.15	%REC	1394275	101
8)	Phenol	4.01	41.31	ug/mL	1403436	103
9)	2-Cl-phenol	4.18	40.41	ug/mL	1250395	101
10)	13Diclbenz	4.36	40.20	ug/mL	1436706	100
11)	14Diclbenz	4.45	39.73	ug/mL	1442886	99
12)	12Diclbenz	4.63	39.97	ug/mL	1377370	100
13)	Benzyl alcoho	4.60	40.94	ug/mL	717758	102
14)	bis2clispreth	4.77	40.44	ug/mL	2124498	101
15)	2Methylphenol	4.73	41.62	ug/mL	1081229	104
16)	Ntrspyrrol	4.92	41.19	ug/mL	565608	103
17)	Acetophenone	4.94	40.42	ug/mL	1566911	101
18)	Hexaclethane	5.05	39.87	ug/mL	483015	100
19)	N-Ntrsdinprop	4.95	41.41	ug/mL	718563	104
20)	3&4Methylphenol	4.94	40.83	ug/mL	1057933	102
21)	Naphthalened8	6.07	20.00	ug/mL	2153787	ISTD
22)	SURRNitrbenzened5	5.13	205.61	%REC	1068669	103
23)	Nitrobenzene	5.16	41.29	ug/mL	1096206	103
24)	Isophorone	5.52	42.14	ug/mL	2469952	105
25)	2-Nitrophenol	5.61	41.42	ug/mL	822291	104
26)	24Dimthpheno	5.69	41.29	ug/mL	1242150	103
27)	bis2clethoxym	5.82	40.19	ug/mL	1623808	100
28)	24Diclphenol	5.92	42.38	ug/mL	1190417	106
29)	124Triclbenz	6.01	39.79	ug/mL	1383841	99
30)	Benzoic acid	5.86	41.07	ug/mL	910774	103
31)	Naphthalene	6.10	40.44	ug/mL	4445134	101
32)	4-Cl-aniline	6.17	41.09	ug/mL	1694270	103
33)	26Diclphenol	6.17	38.39	ug/mL	976545	96
34)	Hexaclprop	6.19	42.39	ug/mL	758242	106
35)	Hexaclbutdien	6.24	39.53	ug/mL	646454	99
36)	4Cl3methylphe	6.66	42.50	ug/mL	1142047	106
37)	2Methylnaphth	6.78	39.94	ug/mL	2450821	100

38)	1Methylnaphth	6.86	40.32	ug/mL	2567736	101
39)	Acenaphthened10	7.58	20.00	ug/mL	1135107	ISTD
40)	Hxclcycpentdi	6.91	40.75	ug/mL	783112	102
41)	1245Tetrclbenz	6.92	40.71	ug/mL	1230708	102
42)	246Triclpheno	7.02	42.23	ug/mL	840950	106
43)	245Triclpheno	7.05	42.06	ug/mL	889615	105
44)	SURR2Flbiphenyl	7.09	198.75	%REC	2951732	99
45)	2Clnaphthalen	7.18	40.31	ug/mL	2642894	101
46)	2Nitroaniline	7.26	40.71	ug/mL	623385	102
47)	Acnaphthylene	7.48	39.22	ug/mL	4405978	98
48)	Dimethylphtha	7.40	40.63	ug/mL	3131184	102
49)	26Dinitrotolu	7.44	41.10	ug/mL	684972	103
50)	Acenaphthene	7.60	39.63	ug/mL	2799154	99
51)	3Nitroaniline	7.56	42.49	ug/mL	758033	106
52)	24Dinitphenol	7.62	39.23	ug/mL	413039	98
53)	Dibenzofuran	7.72	38.56	ug/mL	3543587	96
54)	24Dinitrotolu	7.71	39.81	ug/mL	821489	100
55)	4-Nitrophenol	7.67	39.78	ug/mL	227430	99
56)	2,3,5,6-Tetrachlorop	7.77	39.61	ug/mL	642754	99
57)	2,3,4,6-Tetrachlorop	7.80	40.60	ug/mL	686307	102
58)	Fluorene	7.94	37.76	ug/mL	2798426	94
59)	4Clphlphlethr	7.93	38.44	ug/mL	1267047	96
60)	Diethylphthal	7.87	39.94	ug/mL	3106295	100
61)	4Nitroaniline	7.96	41.58	ug/mL	727969	104
62)	SURR246Tribrphenl	8.10	103.32	%REC	354605	103
63)	Phenanthrd10	8.47	20.00	ug/mL	1618718	ISTD
64)	46Dinit2mylph	7.98	42.82	ug/mL	502262	107
65)	Ntrsdiphlam&Diphlam	8.02	80.08	ug/mL	3850327	100
66)	Azobenz&12Diphlhyd	8.04	79.78	ug/mL	1449083	100
67)	4Brphlphlethr	8.24	41.31	ug/mL	725570	103
68)	Hexaclbenzene	8.27	40.21	ug/mL	732612	101
69)	Pentaclphenol	8.37	38.48	ug/mL	380648	96
70)	Phenanthrene	8.48	39.92	ug/mL	3426022	100
71)	Anthracene	8.51	40.60	ug/mL	3532977	102
72)	Carbazole	8.58	40.10	ug/mL	2956076	100
73)	Dinbtylphthal	8.72	42.65	ug/mL	4245094	107
74)	Fluoranthene	9.08	41.84	ug/mL	3623687	105
75)	Chrysene-d12	9.94	20.00	ug/mL	1507777	ISTD
76)	Benzidine	9.14	40.40	ug/mL	1040090	101
77)	Pyrene	9.21	40.94	ug/mL	3680904	102
78)	SURRTerphenyl-d14	9.28	201.45	ug/mL	2206227	101
79)	Btylbzylphth	9.56	42.08	ug/mL	1839525	105
80)	33Diclbnzidin	9.91	42.32	ug/mL	792827	106
81)	B[a]anthracen	9.93	40.70	ug/mL	3412465	102
82)	Chrysene	9.96	41.37	ug/mL	3323428	103
83)	bis2Ethlhxlph	9.91	41.55	ug/mL	2639870	104
84)	Dinoctylphthl	10.34	41.82	ug/mL	4721743	105
85)	Perylene-d12	10.91	20.00	ug/mL	1249255	ISTD
86)	B[b]fluoranth	10.64	40.64	ug/mL	2990240	102
87)	B[k]fluoranth	10.66	44.43	ug/mL	3088472	111

88) Benz[a]pyrene	10.87	42.08	ug/mL	2826166	105
89) Indeno-pyrene	11.80	40.24	ug/mL	2744039	101
90) Dib[ah]anthr	11.80	40.54	ug/mL	2243434	101
91) B[ghi]perylen	12.06	39.68	ug/mL	2247664	99

(#) = recovery out of range Average Percent Recovery = 102

SEMI - VOLATILE ORGANIC ANALYSIS
CONTINUING CALIBRATION
DOCUMENTS

QC Check Standard Report

Sequence : C:\Instarch\Sequence\HPLC 2\8330A_B\121310exp-primary.seq
User : red
Printed : Dec 23, 2010 14:55:22

RED
12/30/2010

File	Sample ID	Acquired
C:\Instarch\Data\HPLC 2\8330A_B\121310exp-primary\002.dat	8330 CCV EXP 4128	Dec 23, 2010 14:55:22

A

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
HMX	0.500	0.504	0.805	20.000	Passed
RDX	0.500	0.519	3.757	20.000	Passed
12-DNB (SSTD)	100.000	101.490	1.490	20.000	Passed
135-TNB	0.500	0.505	0.911	20.000	Passed
13-DNB	0.500	0.512	2.380	20.000	Passed
TETRYL	0.500	0.475	5.004	20.000	Passed
35-DNA	0.500	0.548	9.511	20.000	Passed
NB	0.500	0.509	1.755	20.000	Passed
246-TNT	0.500	0.524	4.786	20.000	Passed
4-AM-26-DNT	0.500	0.457	8.540	20.000	Passed
2-AM-46-DNT	0.500	0.511	2.277	20.000	Passed
2-NT	0.500	0.497	0.654	20.000	Passed
4-NT	0.500	0.512	2.485	20.000	Passed
3-NT	0.500	0.518	3.592	20.000	Passed

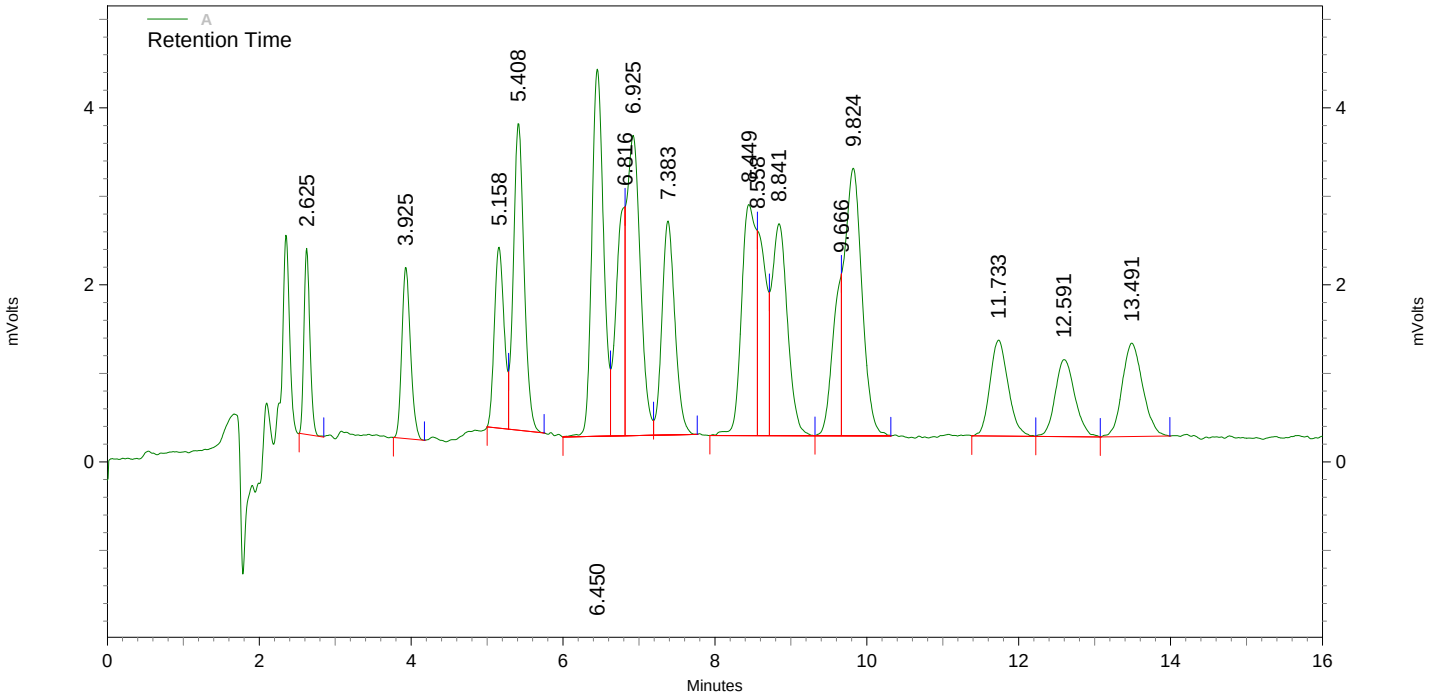
B

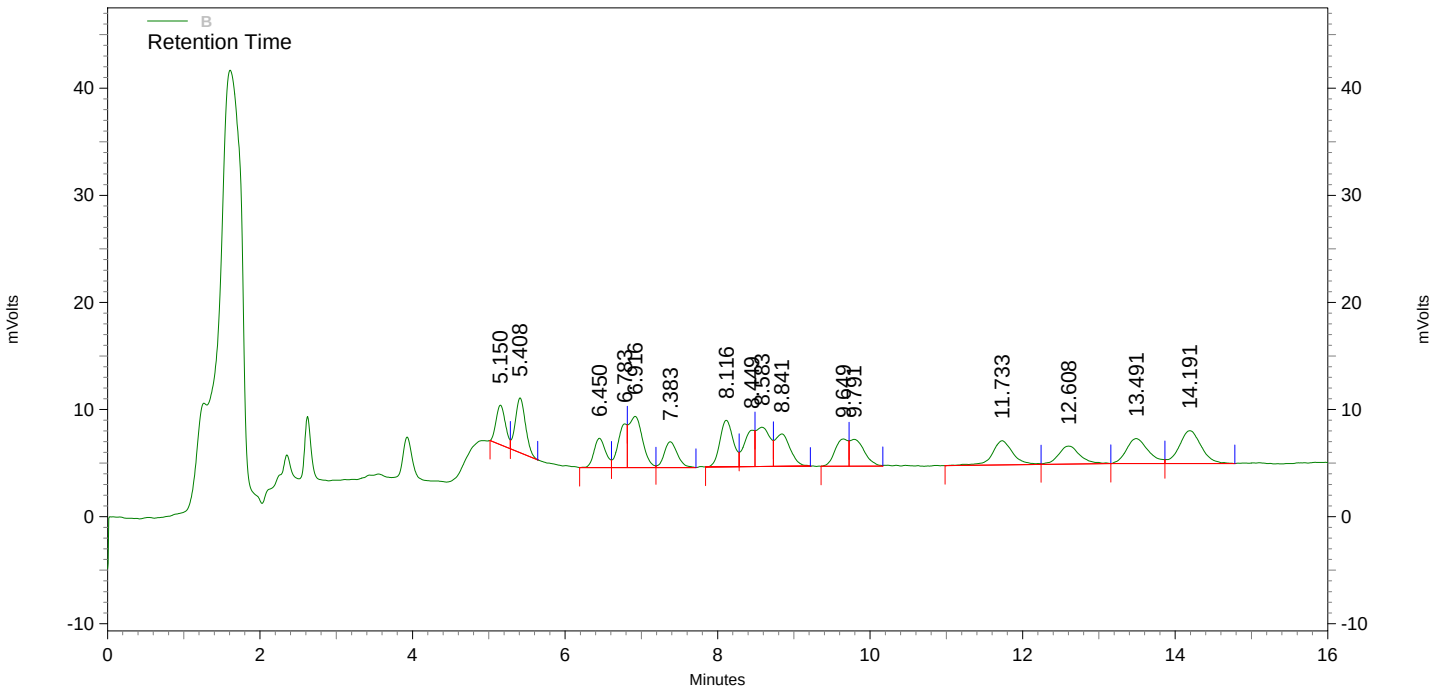
Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
NG	2.000	1.977	1.139	20.000	Passed
26-DNT	0.500	0.443	11.426	20.000	Passed
24-DNT	0.500	0.542	8.495	20.000	Passed
PETN	2.000	2.044	2.180	20.000	Passed

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\8330A_B\121310exp-primary\002.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\121310exp-primary.met
Sample ID: 8330 CCV EXP 4128
Acquired: Dec 14, 2010 09:34:48
Data Summary: {Data Description}





RED

12/30/2010

A Results

Name	*Retention Time*	*Area*	*concentrati*
HMX	2.625	11579	**0.504**
RDX	3.925	15445	**0.519**
12-DNB (SSTD)	5.158	18333	**101.490**
135-TNB	5.408	33949	**0.505**
13-DNB	6.450	44483	**0.512**
TETRYL	6.816	20825	**0.475**
35-DNA	6.925	42214	**0.548**
NB	7.383	28791	**0.509**
246-TNT	8.449	34151	**0.524**
4-AM-26-DNT	8.558	18907	**0.457**
2-AM-46-DNT	8.841	34346	**0.511**
2-NT	11.733	18007	**0.497**
4-NT	12.591	15650	**0.512**
3-NT	13.491	19827	**0.518**

B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG	8.116	53084	**1.977**
26-DNT	9.649	30148	**0.443**
24-DNT	9.791	33042	**0.542**
PETN	14.191	61491	**2.044**

QC Check Standard Report

Sequence : C:\Instarch\Sequence\HPLC 2\8330A_B\121310exp-primary.seq
User : red
Printed : Dec 23, 2010 14:55:43

RED
12/30/2010

File	Sample ID	Acquired
C:\Instarch\Data\HPLC 2\8330A_B\121310exp-primary\013.dat	8330 CCV EXP 4128	Dec 23, 2010 14:55:43

A

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
HMX	0.500	0.487	2.512	20.000	Passed
RDX	0.500	0.508	1.578	20.000	Passed
12-DNB (SSTD)	100.000	100.754	0.754	20.000	Passed
135-TNB	0.500	0.501	0.149	20.000	Passed
13-DNB	0.500	0.510	2.003	20.000	Passed
TETRYL	0.500	0.484	3.292	20.000	Passed
35-DNA	0.500	0.522	4.415	20.000	Passed
NB	0.500	0.500	0.047	20.000	Passed
246-TNT	0.500	0.538	7.667	20.000	Passed
4-AM-26-DNT	0.500	0.414	17.241	20.000	Passed
2-AM-46-DNT	0.500	0.492	1.683	20.000	Passed
2-NT	0.500	0.460	8.040	20.000	Passed
4-NT	0.500	0.463	7.450	20.000	Passed
3-NT	0.500	0.519	3.816	20.000	Passed

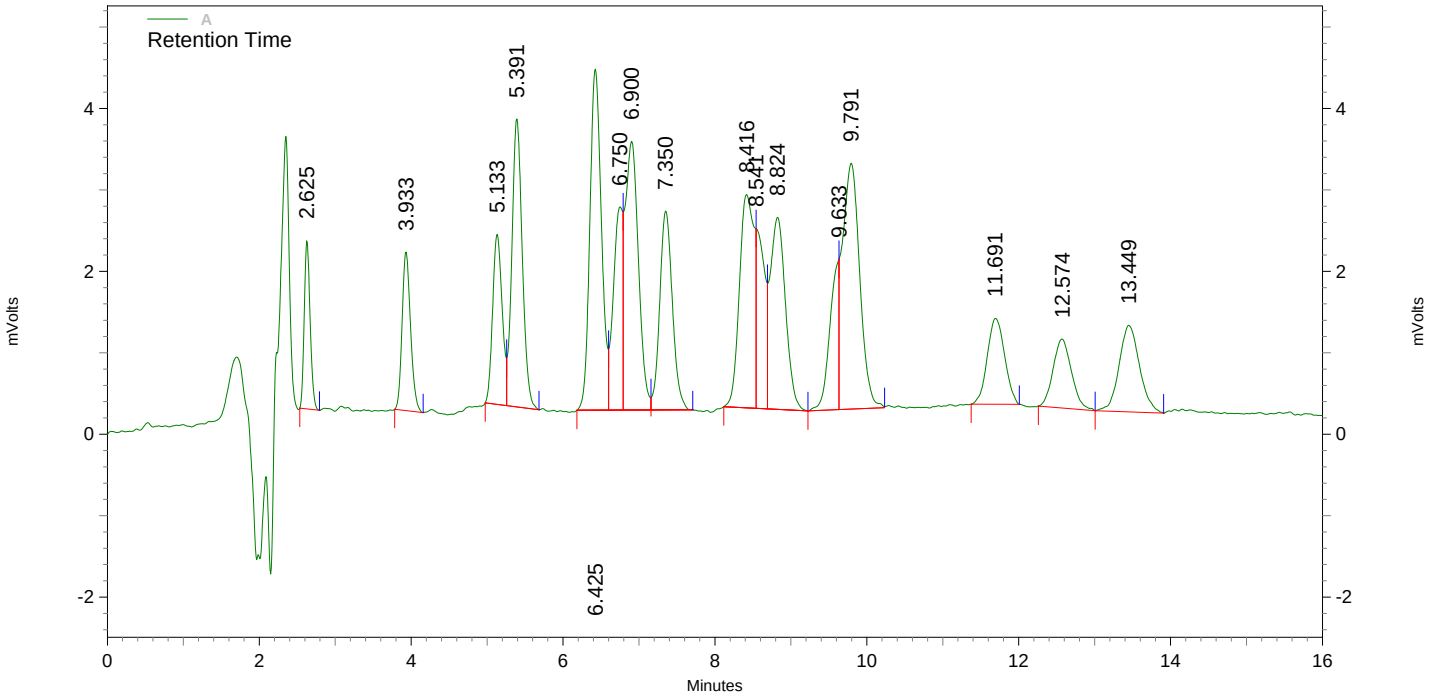
B

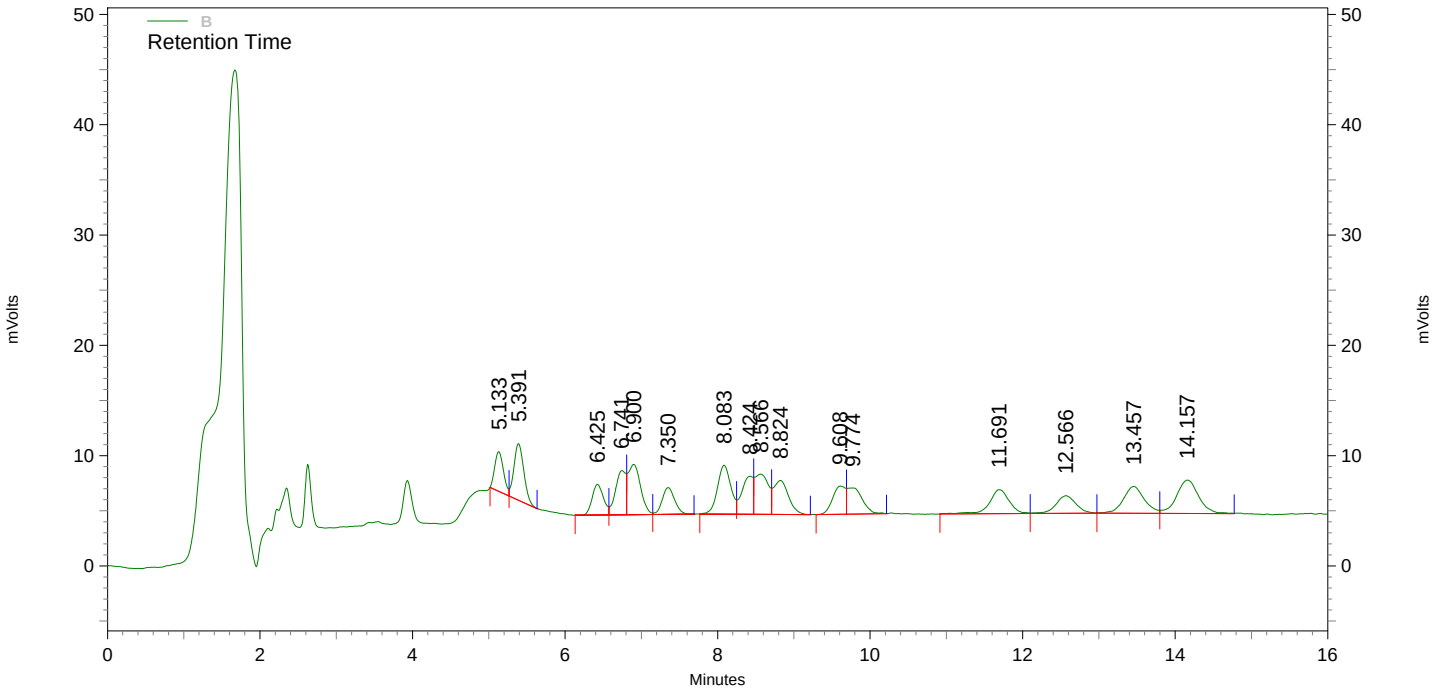
Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
NG	2.000	2.018	0.899	20.000	Passed
26-DNT	0.500	0.441	11.869	20.000	Passed
24-DNT	0.500	0.539	7.737	20.000	Passed
PETN	2.000	2.034	1.698	20.000	Passed

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\8330A_B\121310exp-primary\013.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\121310exp-primary.met
Sample ID: 8330 CCV EXP 4128
Acquired: Dec 14, 2010 13:49:59
Data Summary: {Data Description}





R&D

12/30/2010

A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX	2.625	11205	**0.487**
RDX	3.933	15131	**0.508**
12-DNB (SSTD)	5.133	18204	**100.754**
135-TNB	5.391	33697	**0.501**
13-DNB	6.425	44323	**0.510**
TETRYL	6.750	21177	**0.484**
35-DNA	6.900	40236	**0.522**
NB	7.350	28287	**0.500**
246-TNT	8.416	35066	**0.538**
4-AM-26-DNT	8.541	17214	**0.414**
2-AM-46-DNT	8.824	33059	**0.492**
2-NT	11.691	16725	**0.460**
4-NT	12.574	14215	**0.463**
3-NT	13.449	19868	**0.519**

B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG	8.083	54130	**2.018**
26-DNT	9.608	30003	**0.441**
24-DNT	9.774	32824	**0.539**
PETN	14.157	61215	**2.034**

QC Check Standard Report

Sequence : C:\Instarch\Sequence\HPLC 2\8330A_B\121310exp-primary.seq
User : red
Printed : Dec 23, 2010 14:56:07

RED
12/30/2010

File	Sample ID	Acquired
C:\Instarch\Data\HPLC 2\8330A_B\121310exp-primary\025.dat	8330 CCV EXP 4128	Dec 23, 2010 14:56:07

A

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
HMX	0.500	0.479	4.188	20.000	Passed
RDX	0.500	0.489	2.170	20.000	Passed
12-DNB (SSTD)	100.000	99.926	0.074	20.000	Passed
135-TNB	0.500	0.487	2.617	20.000	Passed
13-DNB	0.500	0.503	0.621	20.000	Passed
TETRYL	0.500	0.484	3.204	20.000	Passed
35-DNA	0.500	0.515	2.967	20.000	Passed
NB	0.500	0.498	0.487	20.000	Passed
246-TNT	0.500	0.542	8.357	20.000	Passed
4-AM-26-DNT	0.500	0.445	11.058	20.000	Passed
2-AM-46-DNT	0.500	0.470	5.987	20.000	Passed
2-NT	0.500	0.495	1.080	20.000	Passed
4-NT	0.500	0.481	3.829	20.000	Passed
3-NT	0.500	0.501	0.274	20.000	Passed

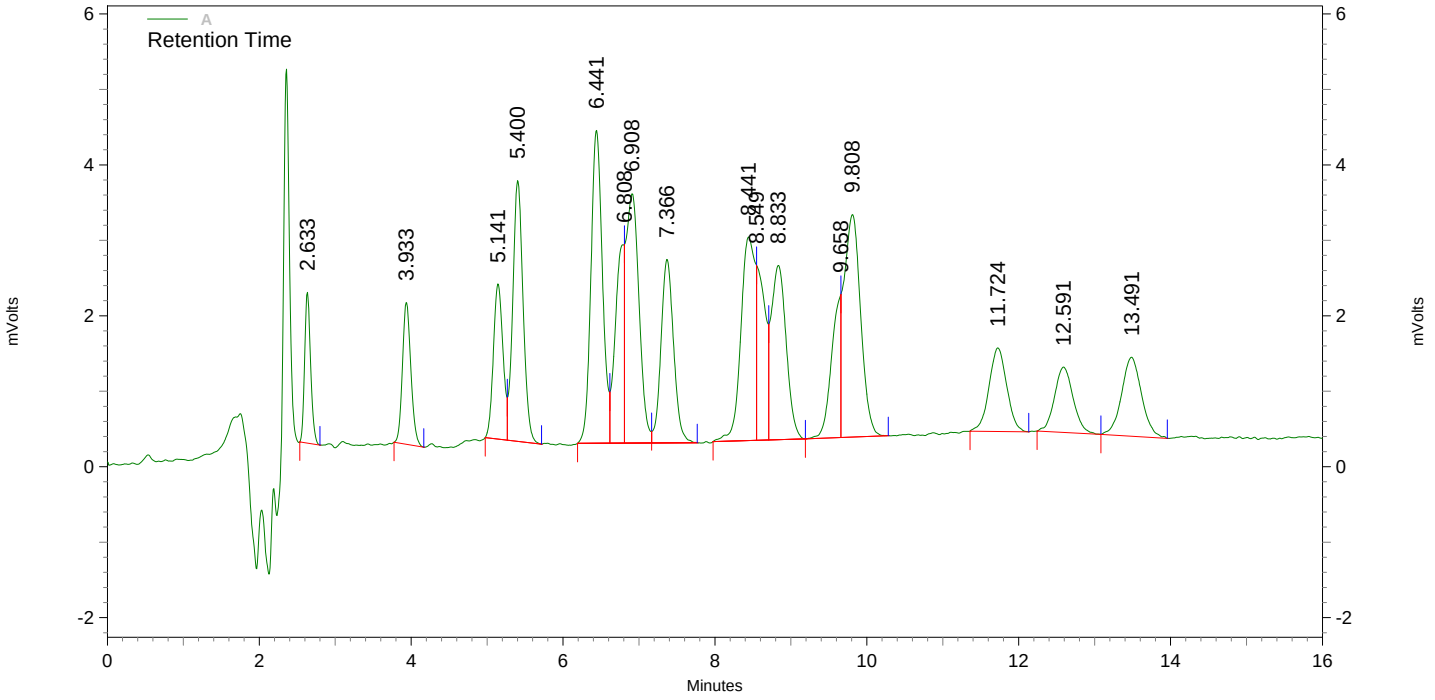
B

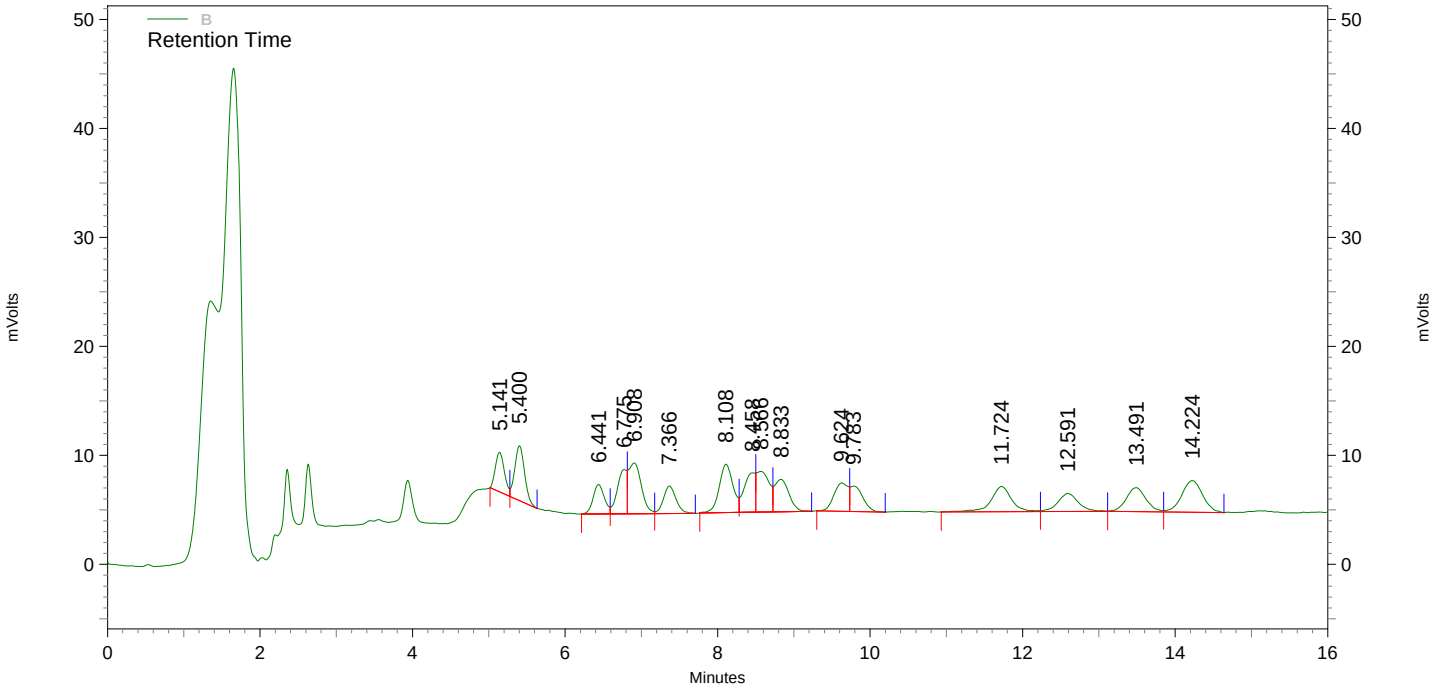
Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
NG	2.000	2.085	4.264	20.000	Passed
26-DNT	0.500	0.497	0.640	20.000	Passed
24-DNT	0.500	0.431	13.864	20.000	Passed
PETN	2.000	1.838	8.105	20.000	Passed

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\8330A_B\121310exp-primary\025.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\121310exp-primary.met
Sample ID: 8330 CCV EXP 4128
Acquired: Dec 14, 2010 19:46:14
Data Summary: {Data Description}





A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX	2.633	11016	**0.479**
RDX	3.933	14591	**0.489**
12-DNB (SSTD)	5.141	18059	**99.926**
135-TNB	5.400	32782	**0.487**
13-DNB	6.441	43738	**0.503**
TETRYL	6.808	21195	**0.484**
35-DNA	6.908	39674	**0.515**
NB	7.366	28164	**0.498**
246-TNT	8.441	35285	**0.542**
4-AM-26-DNT	8.549	18417	**0.445**
2-AM-46-DNT	8.833	31660	**0.470**
2-NT	11.724	17933	**0.495**
4-NT	12.591	14738	**0.481**
3-NT	13.491	19220	**0.501**

B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG	8.108	55857	**2.085**
26-DNT	9.624	33679	**0.497**
24-DNT	9.783	26609	**0.431**
PETN	14.224	55605	**1.838**

After Manual Integration

QC Check Standard Report

JJY 12/30/2010

RED 12/30/2010

Sequence : C:\Instarch\Sequence\HPLC 2\8330A_B\121310exp-primary.seq
User : red
Printed : Dec 23, 2010 14:56:14

File	Sample ID	Acquired
C:\Instarch\Data\HPLC 2\8330A_B\121310exp-primary\028.dat	8330 CCV EXP 4128	Dec 23, 2010 14:56:14

A

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
HMX	0.500	0.489	2.175	20.000	Passed
RDX	0.500	0.495	0.962	20.000	Passed
12-DNB (SSTD)	100.000	104.663	4.663	20.000	Passed
135-TNB	0.500	0.500	0.093	20.000	Passed
13-DNB	0.500	0.510	2.000	20.000	Passed
TETRYL	0.500	0.468	6.439	20.000	Passed
35-DNA	0.500	0.533	6.517	20.000	Passed
NB	0.500	0.498	0.498	20.000	Passed
246-TNT	0.500	0.499	0.161	20.000	Passed
4-AM-26-DNT	0.500	0.516	3.148	20.000	Passed
2-AM-46-DNT	0.500	0.480	4.003	20.000	Passed
2-NT	0.500	0.482	3.615	20.000	Passed
4-NT	0.500	0.474	5.179	20.000	Passed
3-NT	0.500	0.505	1.088	20.000	Passed

B

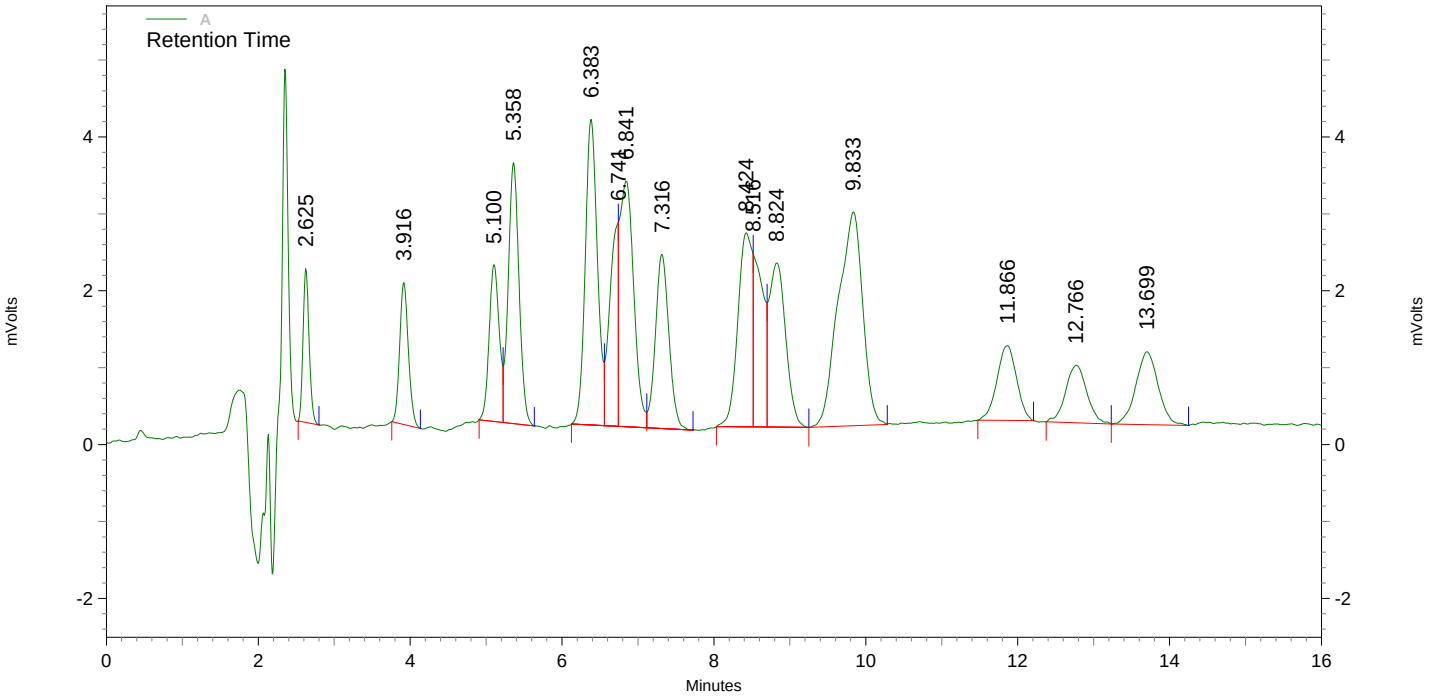
Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
NG	2.000	2.042	2.123	20.000	Passed
26-DNT	0.500	0.531	6.245	20.000	Passed
24-DNT	0.500	0.447	10.510	20.000	Passed
PETN	2.000	1.742	12.897	20.000	Passed

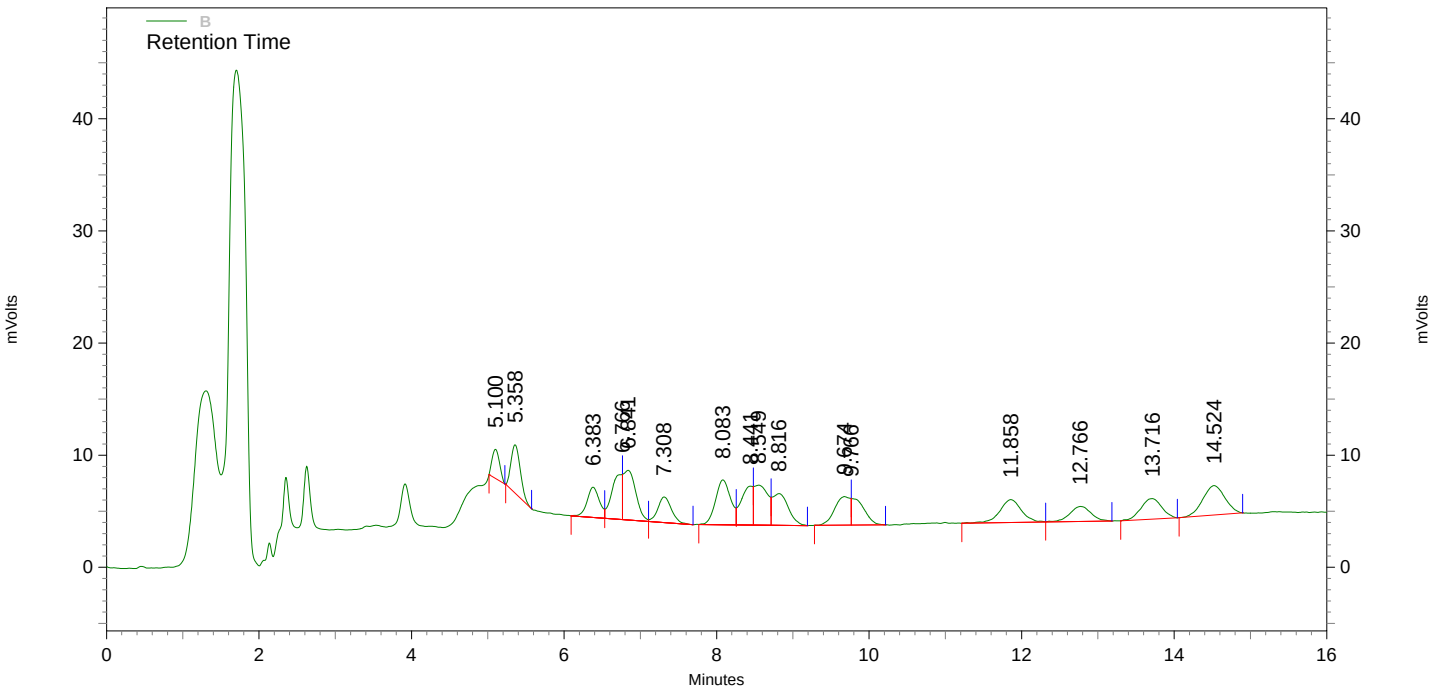
After Manual Integration JJY 12/30/2010

RED 12/30/2010

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\8330A_B\121310exp-primary\028.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\121310exp-primary.met
Sample ID: 8330 CCV EXP 4128
Acquired: Dec 14, 2010 20:55:45
Data Summary: Reason #3 applies to data. A split was added to separate 246-TNT from 4-AM-26-DNT. RED 12/15/2010





After Manual Integration JJY 12/30/2010 RED 12/30/2010

A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX	2.625	11243	**0.489**
RDX	3.916	14765	**0.495**
12-DNB (SSTD)	5.100	18889	**104.663**
135-TNB	5.358	33617	**0.500**
13-DNB	6.383	44322	**0.510**
TETRYL	6.741	20530	**0.468**
35-DNA	6.841	41052	**0.533**
NB	7.316	28161	**0.498**
246-TNT	8.424	32580	**0.499**
4-AM-26-DNT	8.516	21181	**0.516**
2-AM-46-DNT	8.824	32305	**0.480**
2-NT	11.866	17493	**0.482**
4-NT	12.766	14543	**0.474**
3-NT	13.699	19369	**0.505**

B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG	8.083	54758	**2.042**
26-DNT	9.674	35933	**0.531**
24-DNT	9.766	27574	**0.447**
PETN	14.524	52863	**1.742**

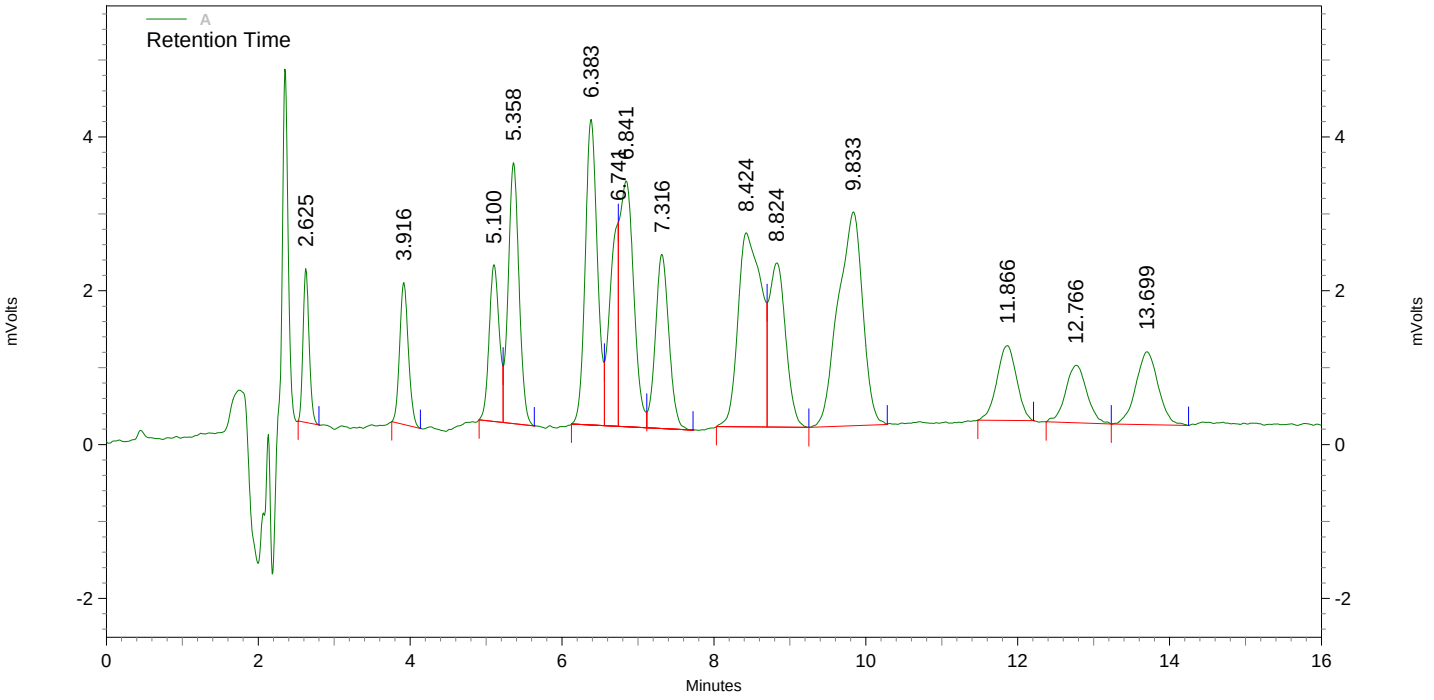
Before Manual Integration

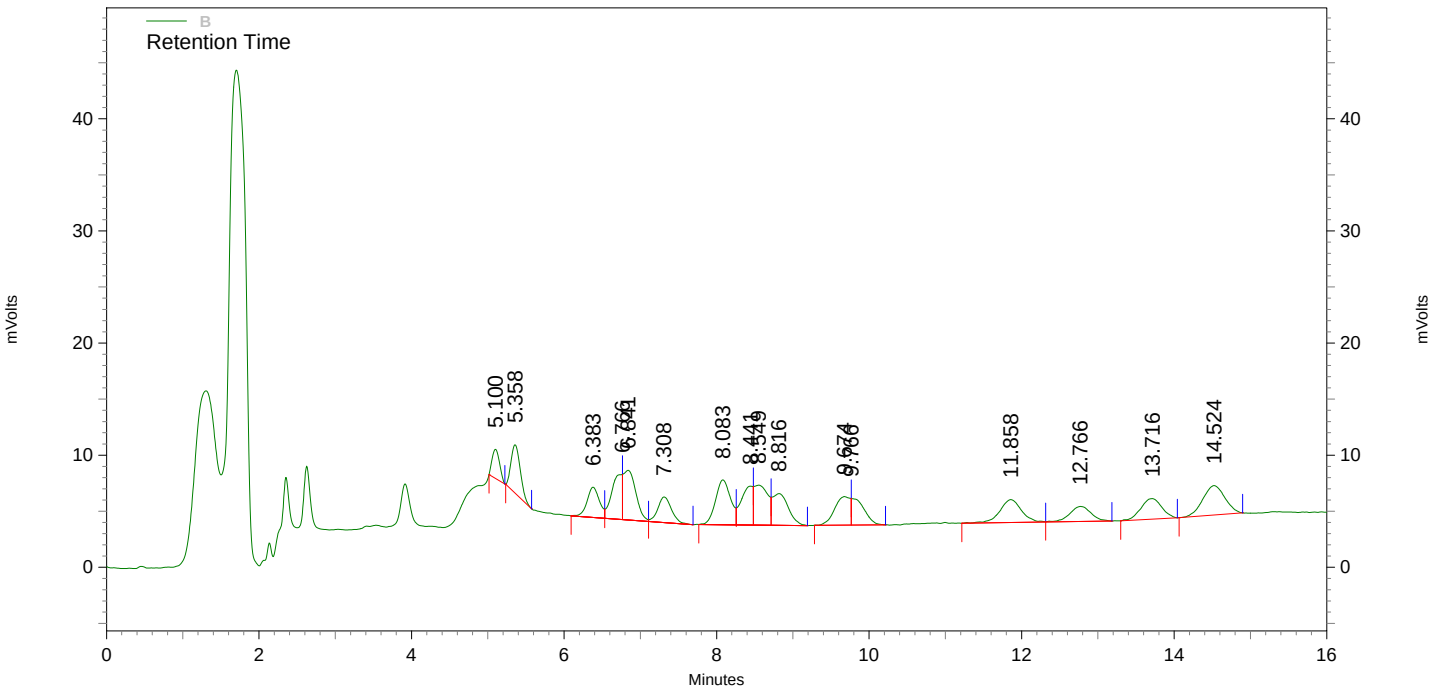
JJY 12/30/2010

RED 12/30/2010

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\8330A_B\121310exp-primary\028.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\121310exp-primary.met
Sample ID: 8330 CCV EXP 4128
Acquired: Dec 14, 2010 20:55:45
Data Summary: {Data Description}





Before Manual Integration

JJY 12/30/2010

RED 12/30/2010

A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX	2.625	11243	**0.489**
RDX	3.916	14765	**0.495**
12-DNB (SSTD)	5.100	18889	**104.663**
135-TNB	5.358	33617	**0.500**
13-DNB	6.383	44322	**0.510**
TETRYL	6.741	20530	**0.468**
35-DNA	6.841	41052	**0.533**
NB	7.316	28161	**0.498**
246-TNT	8.424	53761	**0.833**
4-AM-26-DNT			**0.000 BDL**
2-AM-46-DNT	8.824	32305	**0.480**
2-NT	11.866	17493	**0.482**
4-NT	12.766	14543	**0.474**
3-NT	13.699	19369	**0.505**

B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG	8.083	54758	**2.042**
26-DNT	9.674	35933	**0.531**
24-DNT	9.766	27574	**0.447**
PETN	14.524	52863	**1.742**

QC Check Standard Report

Sequence : C:\Instarch\Sequence\HPLC 2\NQ\121610NQ-primary.seq
User : red
Printed : Dec 23, 2010 14:58:06

RED
12/30/2010

File	Sample ID	Acquired
C:\Instarch\Data\HPLC 2\NQ\121610NQ-primary\002.dat	NQ CCV EXP 4134	Dec 23, 2010 14:58:06

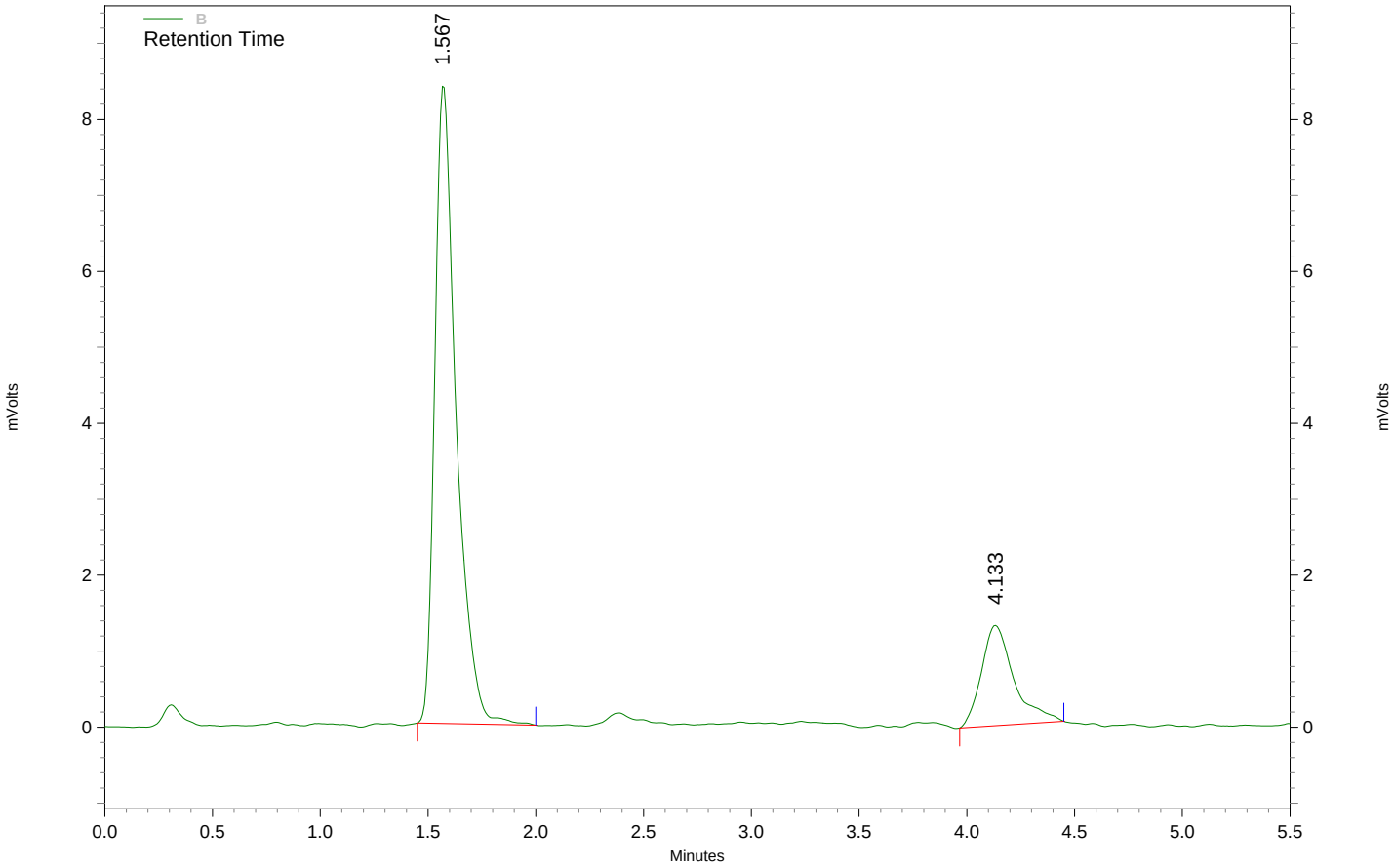
B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
NQ	0.500	0.481	3.734	20.000	**Passed**
12-DNB (SSTD)	100.000	102.670	2.670	20.000	**Passed**

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121610NQ-primary\002.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121610NQ-primary.met
Sample ID: NQ CCV EXP 4134
Acquired: Dec 16, 2010 08:43:52
Data Summary: {Data Description}



B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.567	58086	**0.481**
12-DNB (SSTD)	4.133	13821	**102.670**

QC Check Standard Report

Sequence : C:\Instarch\Sequence\HPLC 2\NQ\121610NQ-primary.seq
User : red
Printed : Dec 23, 2010 14:58:28

RED
12/30/2010

File	Sample ID	Acquired
C:\Instarch\Data\HPLC 2\NQ\121610NQ-primary\013.dat	NQ CCV EXP 4134	Dec 23, 2010 14:58:28

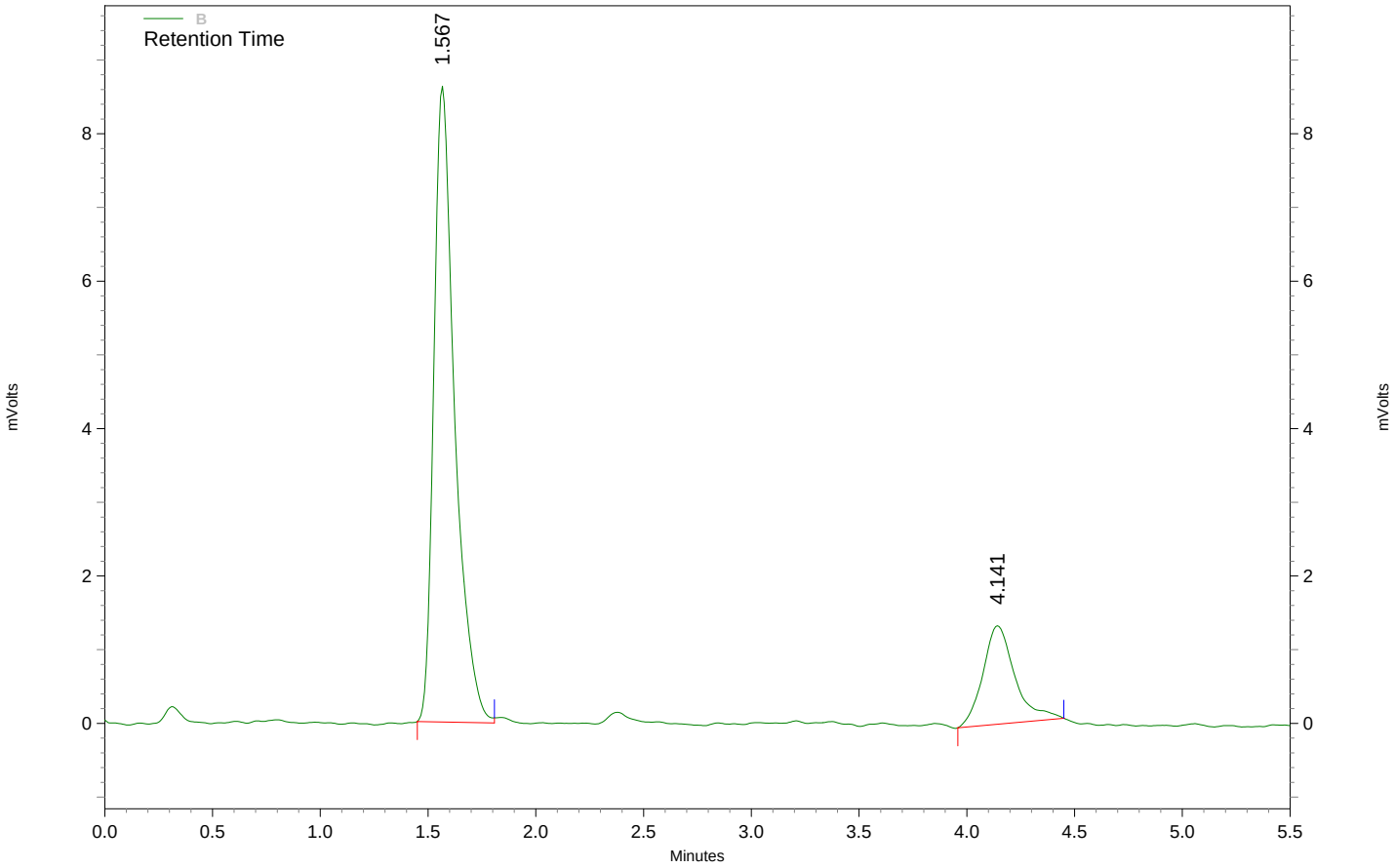
B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
NQ	0.500	0.483	3.474	20.000	**Passed**
12-DNB (SSTD)	100.000	102.292	2.292	20.000	**Passed**

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121610NQ-primary\013.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121610NQ-primary.met
Sample ID: NQ CCV EXP 4134
Acquired: Dec 16, 2010 10:58:11
Data Summary: {Data Description}



B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.567	58239	**0.483**
12-DNB (SSTD)	4.141	13770	**102.292**

QC Check Standard Report

Sequence : C:\Instarch\Sequence\HPLC 2\NQ\121610NQ-primary.seq
User : red
Printed : Dec 23, 2010 14:58:52

RED
12/30/2010

File	Sample ID	Acquired
C:\Instarch\Data\HPLC 2\NQ\121610NQ-primary\024.dat	NQ CCV EXP 4134	Dec 23, 2010 14:58:52

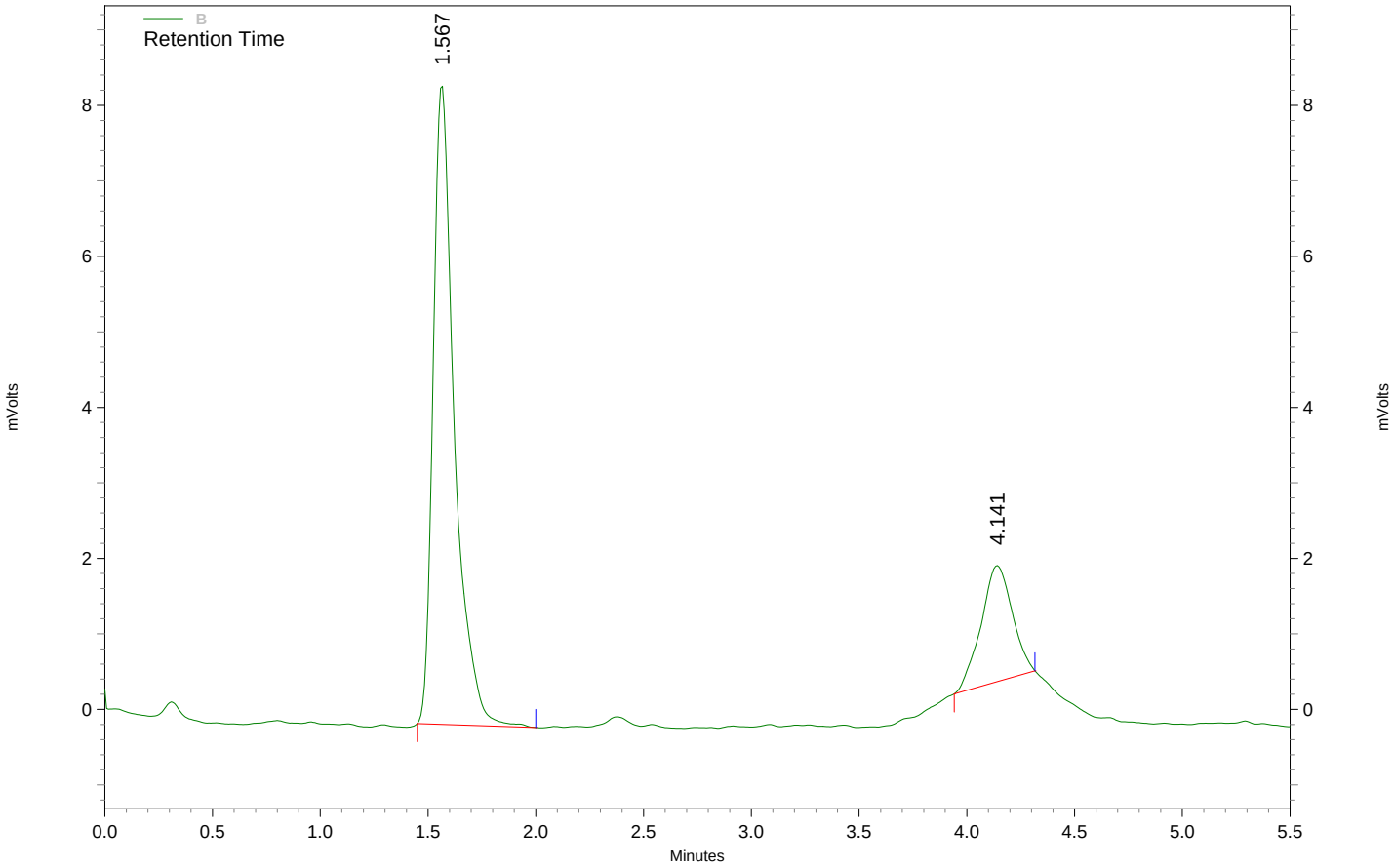
B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
NQ	0.500	0.481	3.870	20.000	**Passed**
12-DNB (SSTD)	100.000	115.086	15.086	20.000	**Passed**

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121610NQ-primary\024.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121610NQ-primary.met
Sample ID: NQ CCV EXP 4134
Acquired: Dec 16, 2010 12:23:56
Data Summary: {Data Description}



B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.567	58006	**0.481**
12-DNB (SSTD)	4.141	15496	**115.086**

QC Check Standard Report

Sequence : C:\Instarch\Sequence\HPLC 2\NQ\121610NQ-primary.seq
User : red
Printed : Dec 23, 2010 14:59:01

RED
12/30/2010

File	Sample ID	Acquired
C:\Instarch\Data\HPLC 2\NQ\121610NQ-primary\028.dat	NQ CCV EXP 4134	Dec 23, 2010 14:59:00

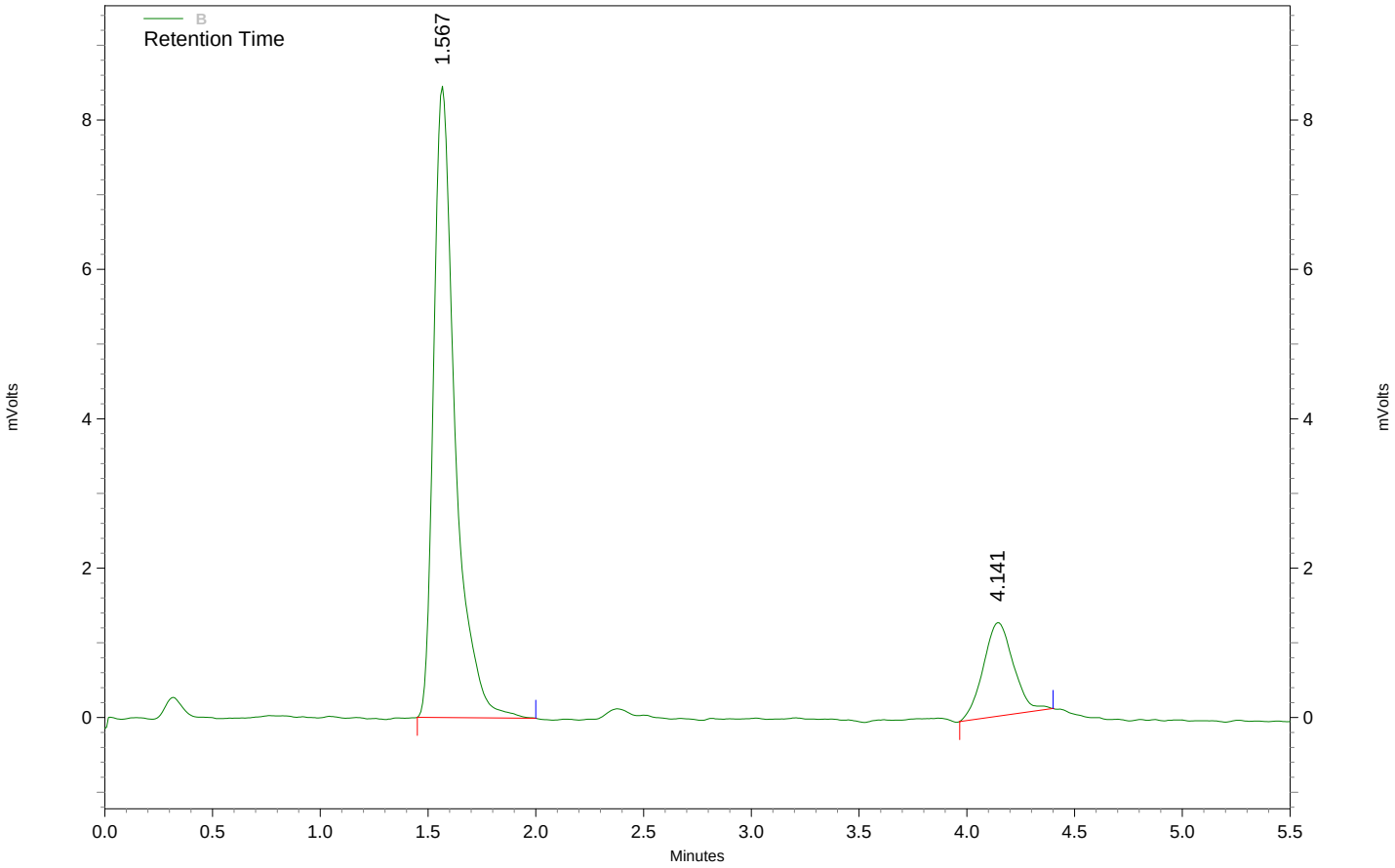
B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
NQ	0.500	0.485	2.930	20.000	**Passed**
12-DNB (SSTD)	100.000	90.462	9.538	20.000	**Passed**

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121610NQ-primary\028.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121610NQ-primary.met
Sample ID: NQ CCV EXP 4134
Acquired: Dec 16, 2010 13:20:27
Data Summary: {Data Description}



B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.567	58560	**0.485**
12-DNB (SSTD)	4.141	12174	**90.462**

QC Check Standard Report

Sequence : C:\Instarch\Sequence\HPLC 2\NQ\121610NQic-confirm.seq
User : red
Printed : Dec 23, 2010 15:00:14

RED
12/30/2010

File	Sample ID	Acquired
C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\010.dat	NQ CCV EXP 4142	Dec 23, 2010 15:00:14

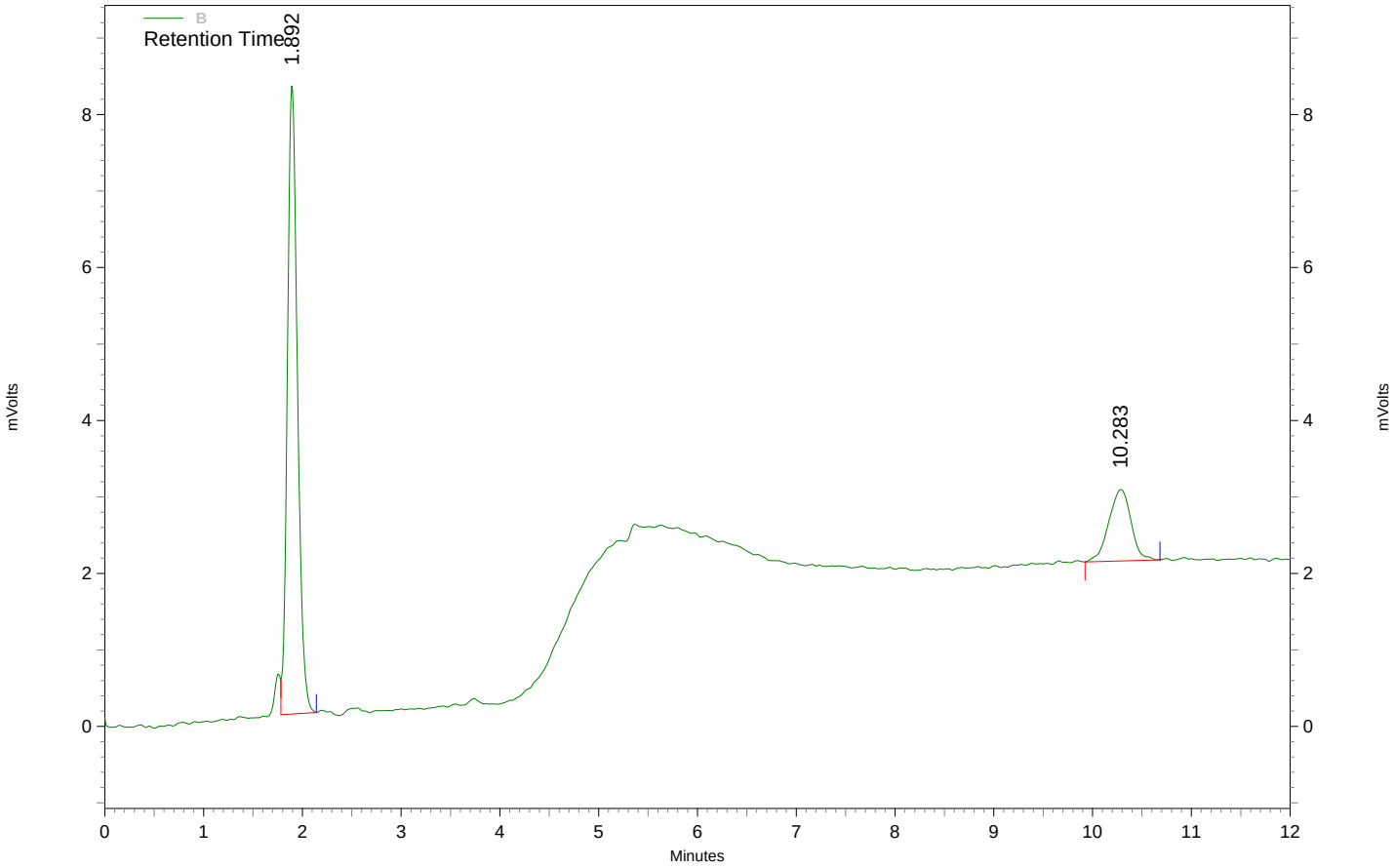
B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
NQ	0.500	0.496	0.836	20.000	**Passed**
12-DNB (SSTD)	100.000	103.634	3.634	20.000	**Passed**

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\010.dat
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
User ID: red
Sample ID: NQ CCV EXP 4142
Acquired: Dec 16, 2010 21:38:00
Data summary: {Data Description}



B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.892	58291	**0.496**
12-DNB (SSTD)	10.283	14588	**103.634**

QC Check Standard Report

Sequence : C:\Instarch\Sequence\HPLC 2\NQ\121610NQic-confirm.seq
User : red
Printed : Dec 23, 2010 15:00:44

RED
12/30/2010

File	Sample ID	Acquired
C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\021.dat	NQ CCV EXP 4142	Dec 23, 2010 15:00:44

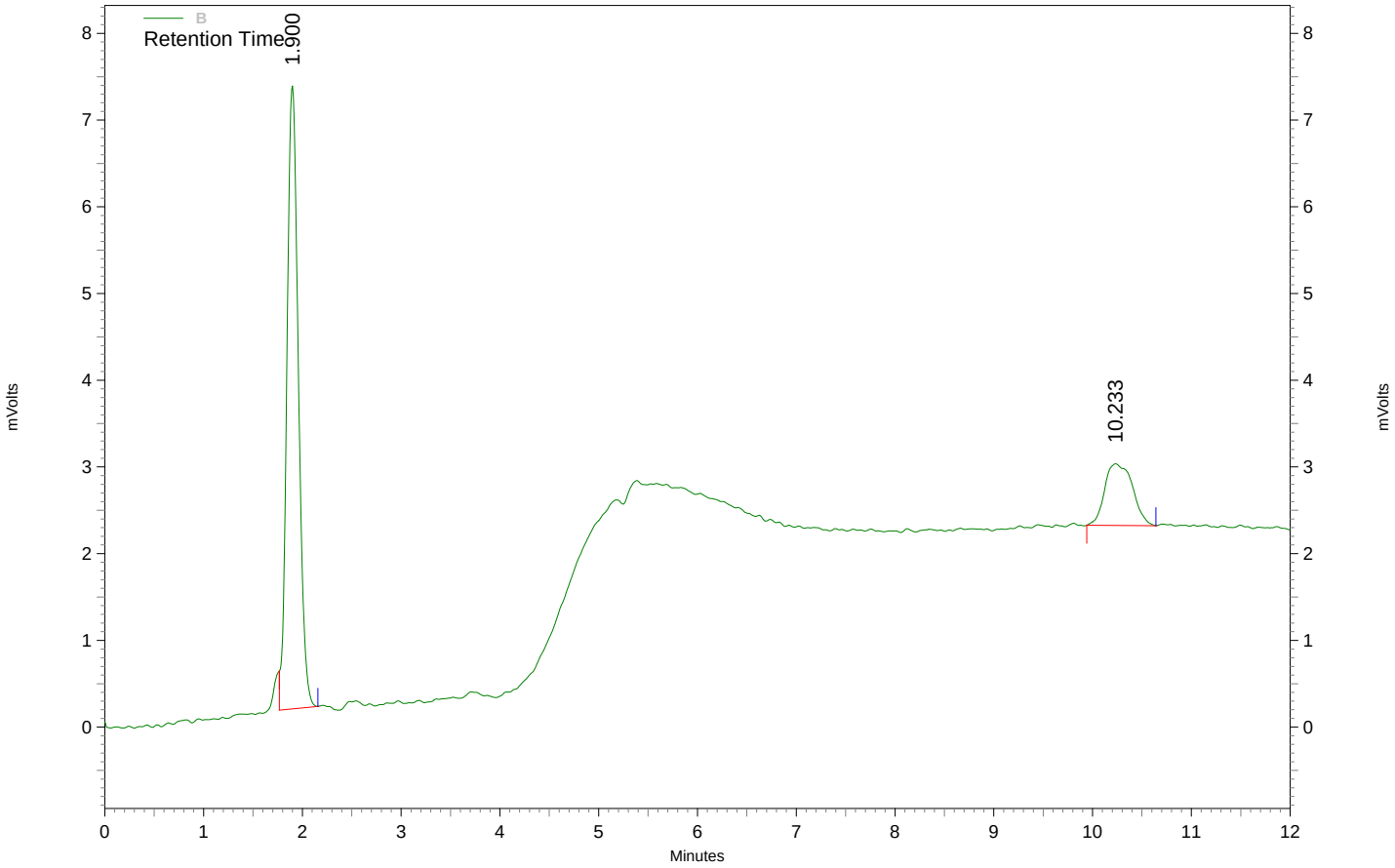
B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
NQ	0.500	0.494	1.214	20.000	**Passed**
12-DNB (SSTD)	100.000	98.718	1.282	20.000	**Passed**

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\021.dat
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
User ID: red
Sample ID: NQ CCV EXP 4142
Acquired: Dec 17, 2010 00:15:16
Data summary: {Data Description}



B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.900	58067	**0.494**
12-DNB (SSTD)	10.233	13902	**98.718**

QC Check Standard Report

Sequence : C:\Instarch\Sequence\HPLC 2\NQ\121610NQic-confirm.seq
User : red
Printed : Dec 23, 2010 15:01:12

RED
12/30/2010

File	Sample ID	Acquired
C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\032.dat	NQ CCV EXP 4142	Dec 23, 2010 15:01:12

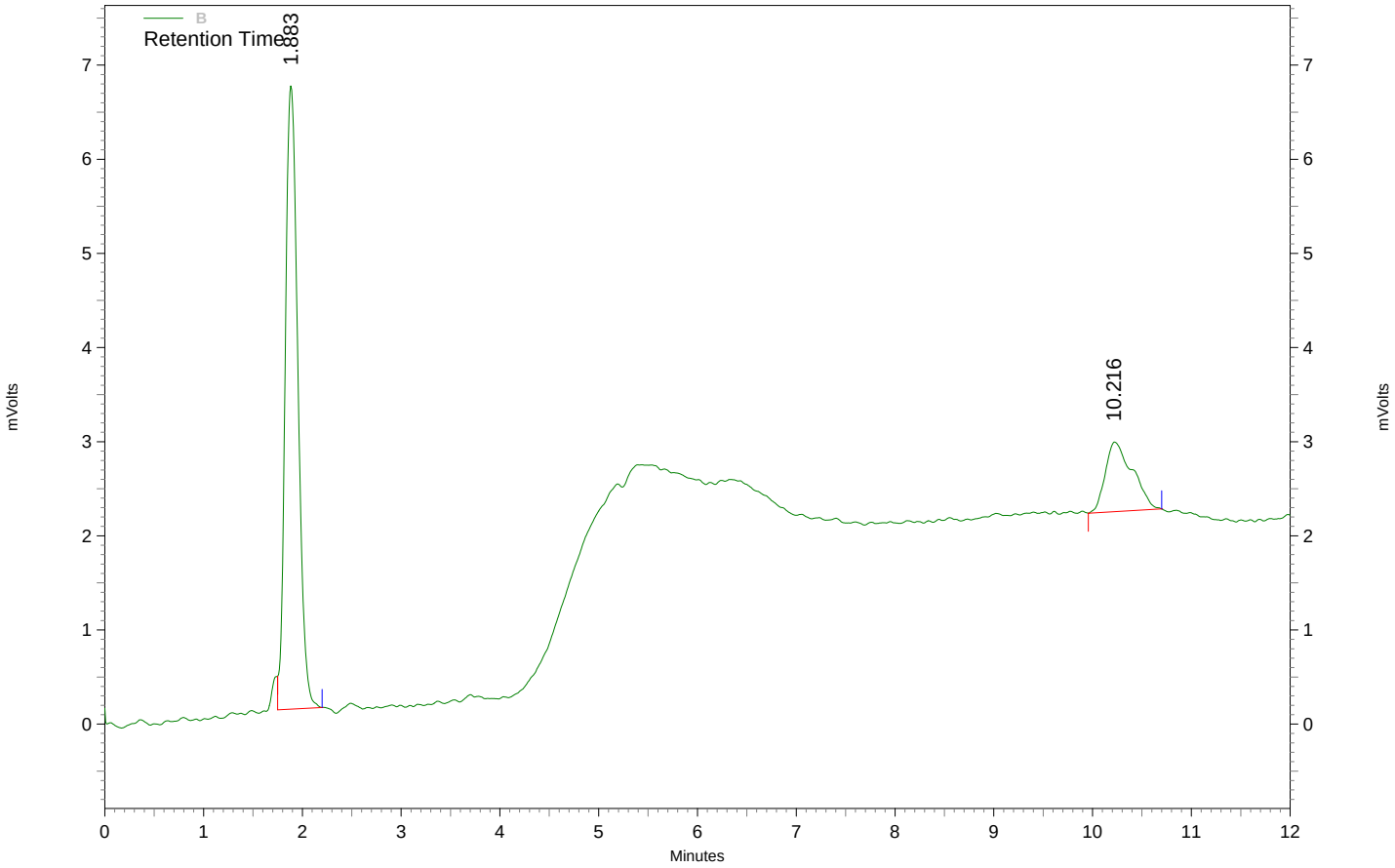
B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
NQ	0.500	0.500	0.043	20.000	**Passed**
12-DNB (SSTD)	100.000	99.901	0.099	20.000	**Passed**

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\032.dat
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
User ID: red
Sample ID: NQ CCV EXP 4142
Acquired: Dec 17, 2010 02:52:30
Data summary: {Data Description}



B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.883	58812	**0.500**
12-DNB (SSTD)	10.216	14067	**99.901**

QC Check Standard Report

Sequence : C:\Instarch\Sequence\HPLC 2\NQ\121610NQic-confirm.seq
User : red
Printed : Dec 23, 2010 15:01:20

RED
12/30/2010

File	Sample ID	Acquired
C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\035.dat	NQ CCV EXP 4142	Dec 23, 2010 15:01:20

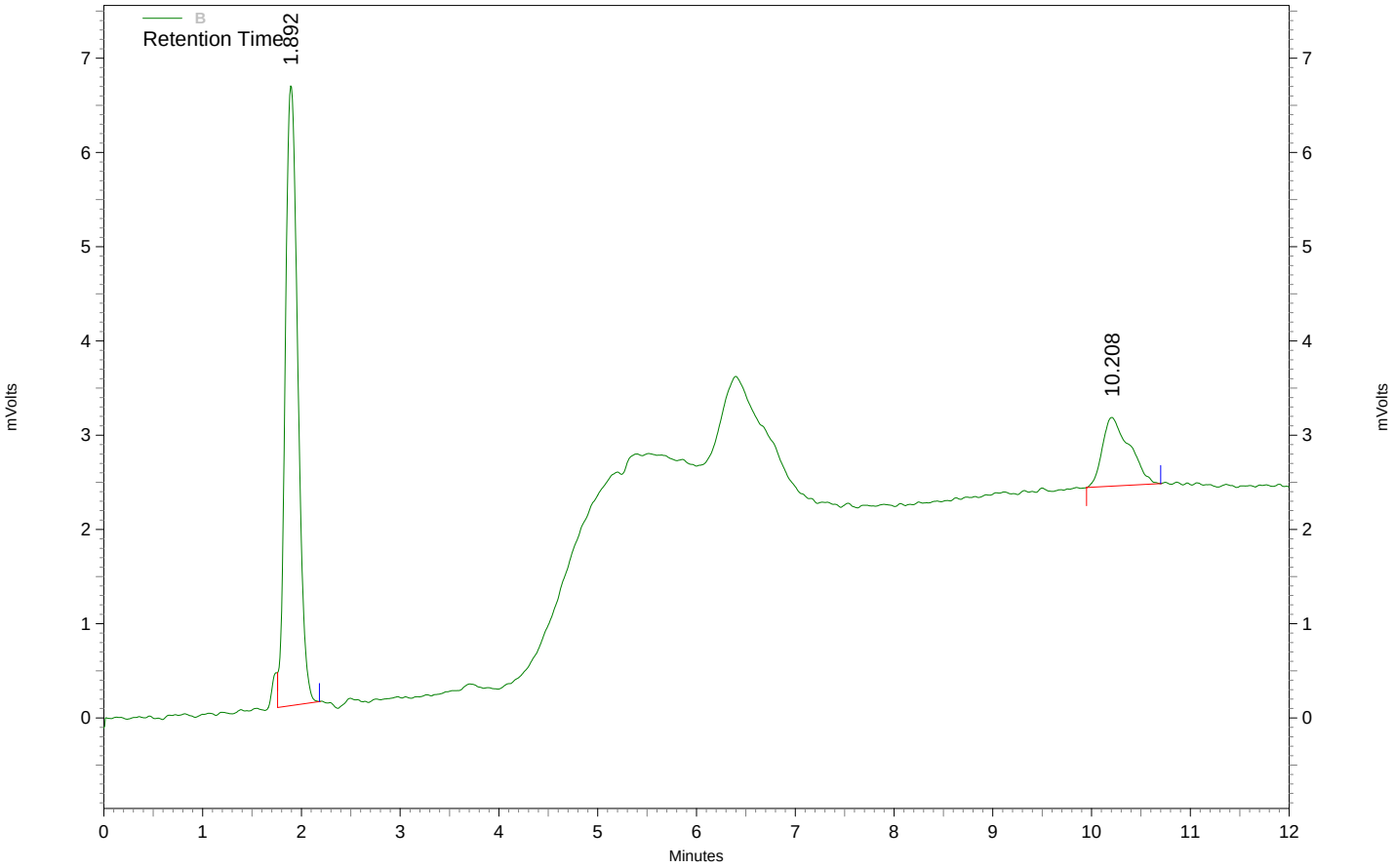
B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
NQ	0.500	0.494	1.103	20.000	Passed
12-DNB (SSTD)	100.000	98.138	1.862	20.000	Passed

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\035.dat
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
User ID: red
Sample ID: NQ CCV EXP 4142
Acquired: Dec 17, 2010 03:35:23
Data summary: {Data Description}



B Results

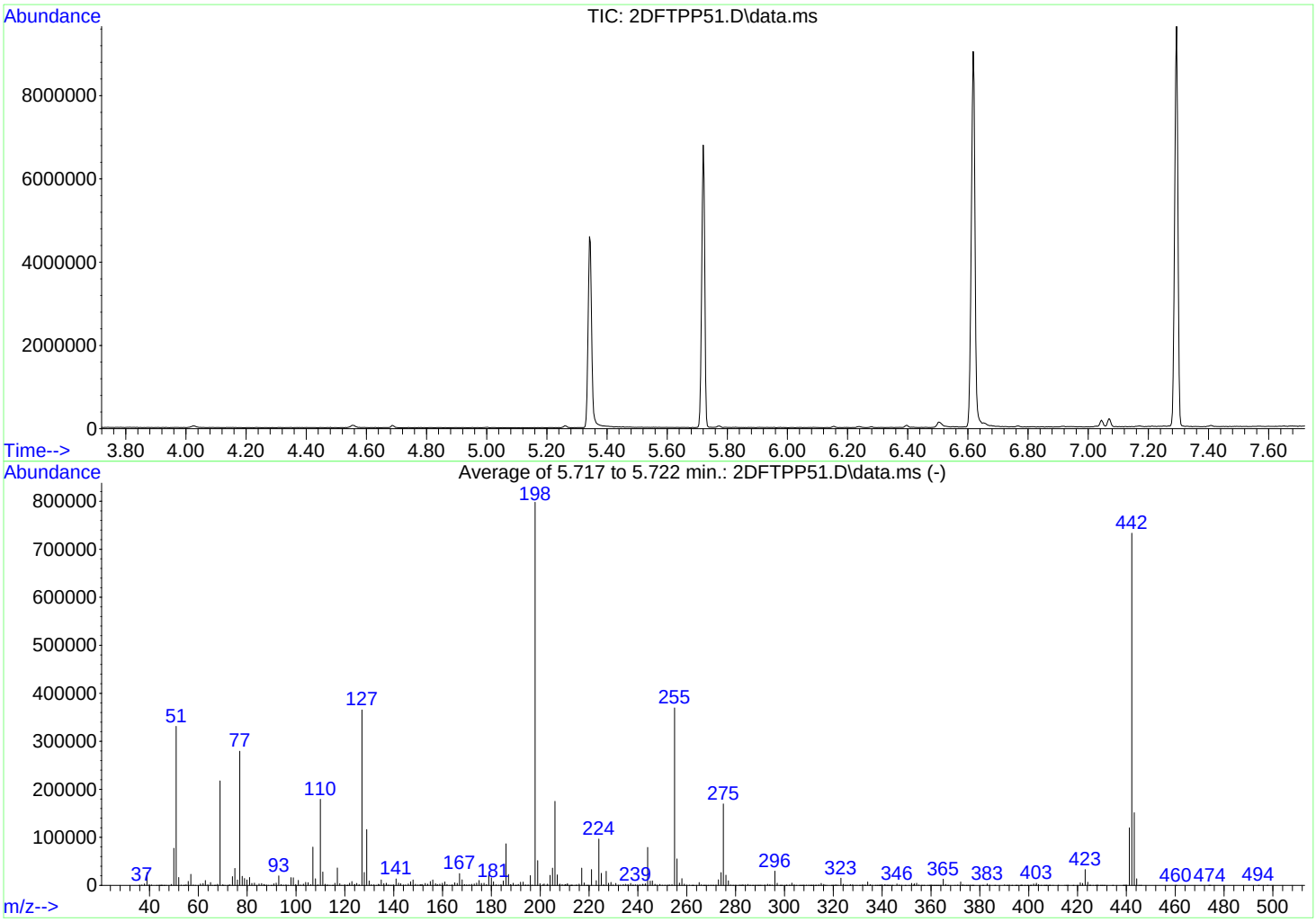
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.892	58133	**0.494**
12-DNB (SSTD)	10.208	13821	**98.138**

DFTPP

Data File : C:\INSTARCH\DATA\2S120210B\2DFTPP51.D Vial: 1
Acq On : 2 Dec 2010 11:11 Operator: RPN
Sample : DFTPP SVMS4646 Inst : SVMS2
Misc : SVMS2,25 ng DFTPP Multiplr: 1.00
Integrator: RTE

RPN
12/02/10

Method : C:\INSTARCH\METHOD\2S120210.M
Title : Method for 8270 analysis for instrument SVMS2
Last Update : Thu Dec 02 14:33:20 2010



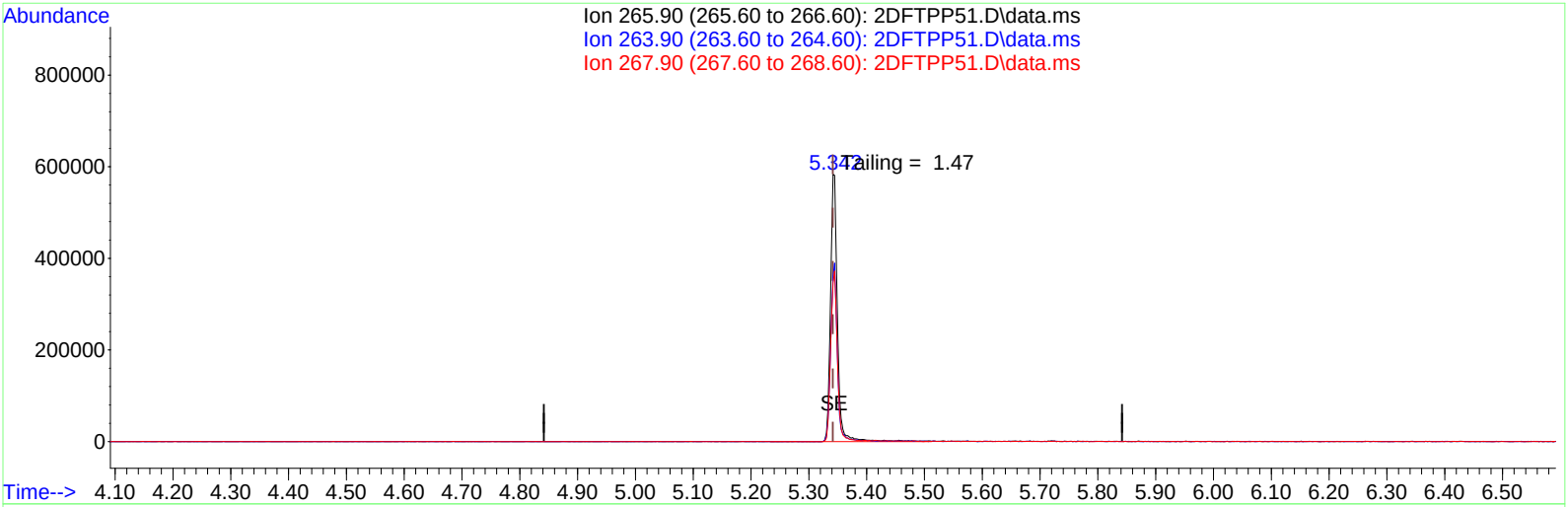
AutoFind: Scans 821, 822, 823; Background Corrected with Scan 813

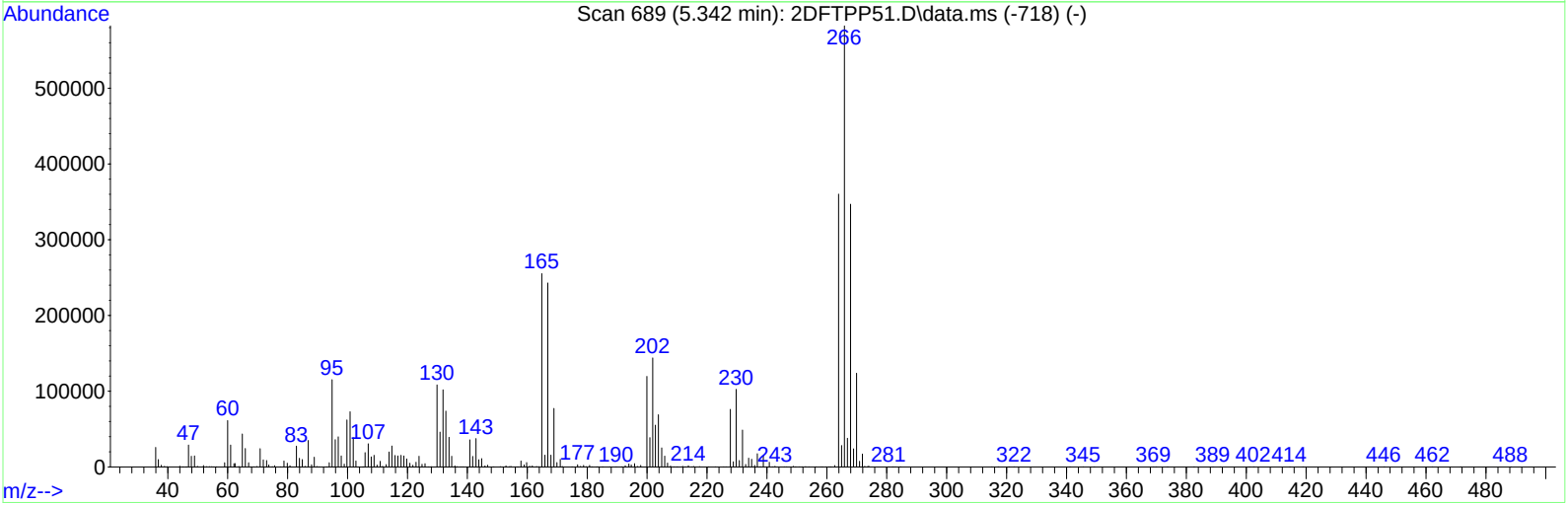
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	41.5	331346	PASS
68	69	0.00	2	1.1	2407	PASS
69	198	0.00	100	27.3	217600	PASS
70	69	0.00	2	0.6	1201	PASS
127	198	40	60	45.8	365461	PASS
197	198	0.00	1	0.1	711	PASS
198	198	100	100	100.0	797888	PASS
199	198	5	9	6.5	51626	PASS
275	198	10	30	21.3	169621	PASS
365	198	1	100	1.6	12870	PASS
441	443	0.01	100	79.3	119989	PASS
442	198	40	100	91.9	733397	PASS
443	442	17	23	20.6	151325	PASS

Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\2S120210B\2DFTPP51.D Vial: 1
Acq On : 2 Dec 2010 11:11 Operator: RPN
Sample : DFTPP SVMS4646 Inst : SVMS2
Misc : SVMS2,25 ng DFTPP Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 17:07:21 2010

Quant Method : C:\INSTARCH\METHOD\2DFTPP.M
Quant Title : DFTPP TUNE Method
QLast Update : Thu Dec 02 17:07:17 2010
Response via : Initial Calibration
DataAcq Meth:2DFTPP.M





TIC: 2DFTPP51.D\data.ms

(1) Pentachlorophenol

5.342min (0.000) 40.66 ng

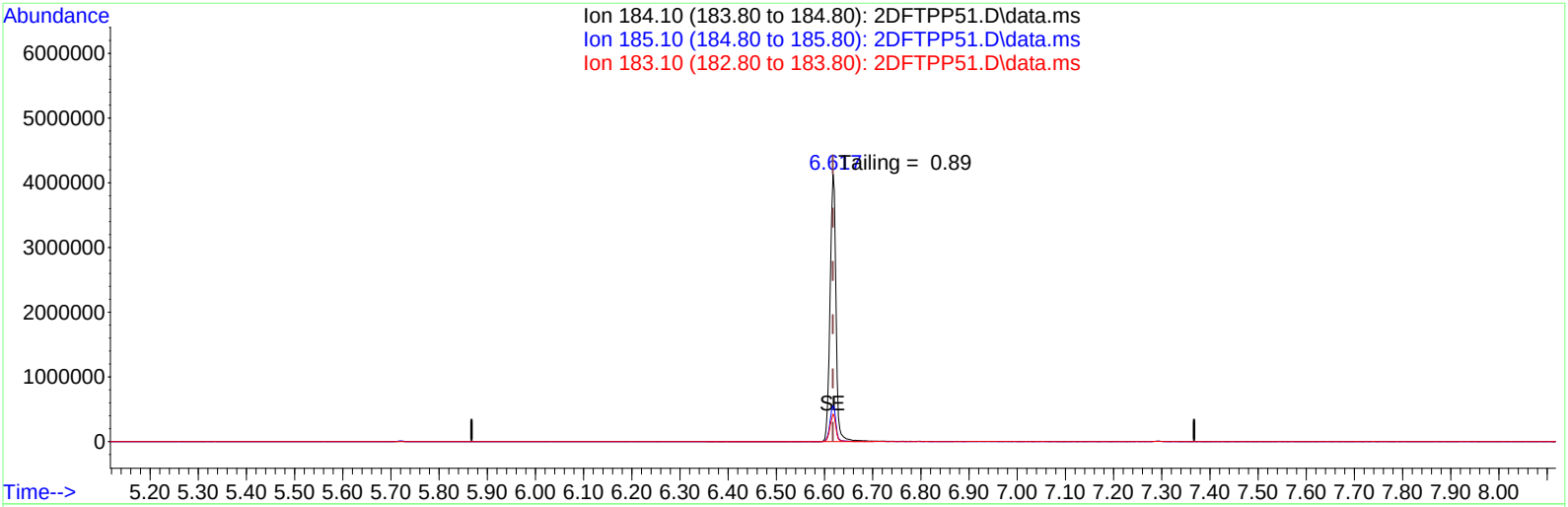
response 480585

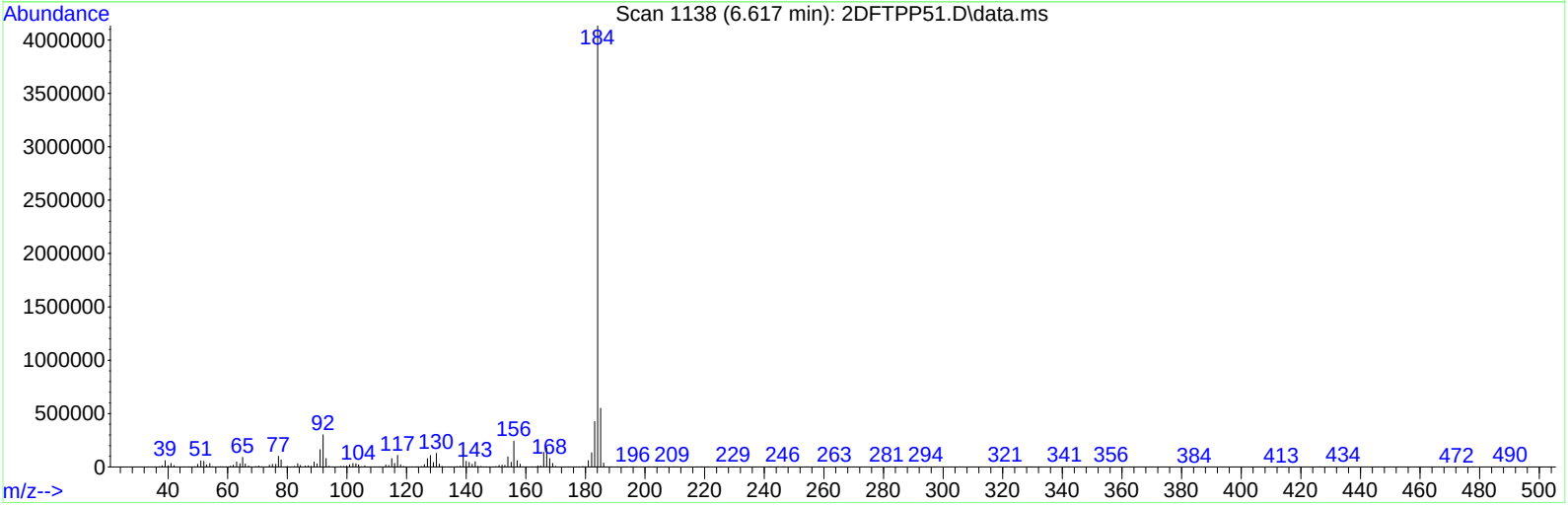
Ion	Exp%	Act%
265.90	100	100
263.90	61.70	61.89
267.90	60.80	59.45
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\2S120210B\2DFTPP51.D Vial: 1
Acq On : 2 Dec 2010 11:11 Operator: RPN
Sample : DFTPP SVMS4646 Inst : SVMS2
Misc : SVMS2,25 ng DFTPP Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 17:07:21 2010

Quant Method : C:\INSTARCH\METHOD\2DFTPP.M
Quant Title : DFTPP TUNE Method
QLast Update : Thu Dec 02 17:07:17 2010
Response via : Initial Calibration
DataAcq Meth:2DFTPP.M





TIC: 2DFTPP51.D\data.ms

(3) Benzidine

6.617min (0.000) 58.83 ng

response 3524555

Ion	Exp%	Act%
184.10	100	100
185.10	14.10	13.69
183.10	10.30	10.28
0.00	0.00	0.00

Data File	: 2DFTPP51.D	Vial Number	: 1
Data File Path	: C:\INSTARCH\DATA\2S120210B\	Operator	: RPN
Date Acquired	: 12/2/2010 11:11	Instrument Name:	SVMS2
Sample Name	: DFTPP SVMS4646	Sample Multiplier:	1
Misc Info	: SVMS2,25 ng DFTPP		

Quant Method	: C:\INSTARCH\METHOD\2DFTPP.M
Calibration Title	: DFTPP TUNE Method
Last Update	: Thu Dec 02 17:07:17 2010

Compound	R.T.	QIon	Response
1) Pentachlorophenol	5.34	266	480585
2) DFTPP	5.72	198	620994
3) Benzidine	6.62	184	3524555
4) DDE	6.77	246	2165
5) DDD	7.07	235	52011
6) DDT	7.29	235	1595160

DDT %Degradation

$$\frac{\text{DDD + DDE}}{\text{DDD + DDE + DDT}} \times 100\% = 3.28\ \%$$

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S120210B\2ICV1.D Vial: 9
Acq On : 2 Dec 2010 14:10 Operator: RPN
Sample : ICV 1 20ug/ml SVMS4686 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 14:33:36 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 14:33:20 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	14Diclbenzd4	20.000	20.000	0.0	107	0.13
2	TM	Ntrsdimeth	20.000	19.892	0.5	105	0.09
3	TM	Pyridine	20.000	20.370	-1.9	106	0.05
4	S	SURR2Flphenol	50.000	49.242	1.5	103	0.10
5	TM	Aniline	20.000	19.962	0.2	105	0.13
6	TM	bis2Clethletr	20.000	20.261	-1.3	107	0.13
7	S	SURRPhenol-d5	50.000	48.517	3.0	103	0.12
8	CTM	Phenol	20.000	20.036	-0.2	104	0.12
9	TM	2-Cl-phenol	20.000	19.823	0.9	106	0.13
10	TM	13Diclbenz	20.000	19.583	2.1	104	0.13
11	CTM	14Diclbenz	20.000	19.931	0.3	106	0.13
12	TM	12Diclbenz	20.000	19.573	2.1	105	0.14
13	TM	Benzyl alcoho	20.000	20.475	-2.4	108	0.13
14	TM	bis2clispreth	20.000	19.445	2.8	105	0.13
15	TM	2Methylphenol	20.000	19.490	2.6	103	0.14
16	TM	Ntrspyrrol	20.000	20.186	-0.9	102	0.14
17	TM	Acetophenone	20.000	19.627	1.9	104	0.14
18	TM	Hexaclethane	20.000	19.467	2.7	102	0.15
19	PTM	N-Ntrsdinprop	20.000	19.821	0.9	105	0.14
20	TM	3&4Methylphenol	20.000	20.196	-1.0	105	0.14
21	I	Naphthalened8	20.000	20.000	0.0	105	0.12
22	S	SURRNitrbenzened5	100.000	102.205	-2.2	105	0.13
23	TM	Nitrobenzene	20.000	20.812	-4.1	106	0.13
24	TM	Isophorone	20.000	20.125	-0.6	104	0.14
25	CTM	2-Nitrophenol	20.000	20.479	-2.4	104	0.13
26	TM	24Dimthpheno	20.000	20.198	-1.0	103	0.12
27	TM	bis2clethoxym	20.000	20.013	-0.1	105	0.12
28	CTM	24Diclphenol	20.000	20.868	-4.3	105	0.12
29	TM	124Triclbenz	20.000	19.972	0.1	104	0.12
30	TM	Benzoic acid	20.000	20.433	-2.2	110	0.11
31	TM	Naphthalene	20.000	20.204	-1.0	105	0.11
32	TM	4-Cl-aniline	20.000	20.191	-1.0	103	0.11
33	TM	26Diclphenol	20.000	19.785	1.1	98	0.11
34	TM	Hexaclprop	20.000	20.290	-1.4	101	0.11
35	CTM	Hexaclbutdien	20.000	19.890	0.5	103	0.11
36	CTM	4Cl3methylphe	20.000	20.487	-2.4	103	0.10
37	TM	2Methylnaphth	20.000	20.021	-0.1	102	0.10
38	TM	1Methylnaphth	20.000	20.134	-0.7	103	0.10
39	I	Acenaphthened10	20.000	20.000	0.0	102	0.09
40	PTM	Hxclcycpentdi	20.000	20.155	-0.8	103	0.09
41	TM	1245Tetrclbenz	20.000	20.417	-2.1	103	0.09
42	CTM	246Triclpheno	20.000	20.665	-3.3	101	0.09
43	TM	245Triclpheno	20.000	20.526	-2.6	101	0.09
44	S	SURR2Flbiphenyl	100.000	101.580	-1.6	101	0.09
45	TM	2Clnaphthalen	20.000	20.416	-2.1	101	0.09
46	TM	2Nitroaniline	20.000	21.368	-6.8	105	0.09
47	TM	Acnaphthylene	20.000	20.402	-2.0	102	0.09
48	TM	Dimethylphtha	20.000	20.722	-3.6	103	0.09
49	TM	26Dinitrotolu	20.000	20.755	-3.8	102	0.09
50	CTM	Acenaphthene	20.000	20.462	-2.3	103	0.09
51	TM	3Nitroaniline	20.000	20.461	-2.3	103	0.09

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S120210B\2ICV1.D Vial: 9
Acq On : 2 Dec 2010 14:10 Operator: RPN
Sample : ICV 1 20ug/ml SVMS4686 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 14:33:36 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 14:33:20 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	PTM	24Dinitphenol	20.000	19.278	3.6	100	0.09
53	TM	Dibenzofuran	20.000	20.511	-2.6	103	0.09
54	TM	24Dinitrotolu	20.000	21.236	-6.2	101	0.09
55	PTM	4-Nitrophenol	20.000	20.256	-1.3	104	0.09
56	TM	2,3,5,6-Tetrachlorop	20.000	20.037	-0.2	100	0.09
57	TM	2,3,4,6-Tetrachlorop	20.000	20.209	-1.0	103	0.09
58	TM	Fluorene	20.000	19.881	0.6	102	0.09
59	TM	4Clphlphlethr	20.000	20.317	-1.6	102	0.09
60	TM	Diethylphthal	20.000	20.429	-2.1	102	0.09
61	TM	4Nitroaniline	20.000	20.609	-3.0	104	0.09
62	S	SURR246Tribrphenl	50.000	49.829	0.3	96	0.09
63	I	Phenanthrd10	20.000	20.000	0.0	103	0.08
64	TM	46Dinit2mylph	20.000	20.619	-3.1	104	0.09
65	CTM	Ntrsdiphlam&Diphlam	40.000	39.943	0.1	103	0.09
66	TM	Azobenz&12Diphlhyd	40.000	40.103	-0.3	103	0.09
67	TM	4Brphlphlethr	20.000	20.766	-3.8	106	0.09
68	TM	Hexaclbenzene	20.000	19.627	1.9	102	0.09
69	CTM	Pentaclphenol	20.000	19.575	2.1	104	0.08
70	TM	Phenanthrene	20.000	19.959	0.2	104	0.08
71	TM	Anthracene	20.000	20.087	-0.4	104	0.07
72	TM	Carbazole	20.000	20.403	-2.0	107	0.08
73	TM	Dinbtylphthal	20.000	20.805	-4.0	104	0.08
74	CTM	Fluoranthene	20.000	20.343	-1.7	104	0.08
75	I	Chrysene-d12	20.000	20.000	0.0	102	0.11
76	TM	Benzidine	20.000	18.698	6.5	100	0.10
77	TM	Pyrene	20.000	20.483	-2.4	106	0.10
78	S	SURRTerphenyl-d14	100.000	100.323	-0.3	102	0.10
79	TM	Btylbzylphth	20.000	20.687	-3.4	104	0.10
80	TM	33Diclbnzidin	20.000	19.492	2.5	101	0.11
81	TM	B[a]anthracen	20.000	20.327	-1.6	104	0.11
82	TM	Chrysene	20.000	20.176	-0.9	102	0.11
83	TM	bis2Ethlhxlph	20.000	20.883	-4.4	104	0.10
84	CTM	Dinoctylphthl	20.000	20.697	-3.5	103	0.11
85	I	Perylene-d12	20.000	20.000	0.0	101	0.14
86	TM	B[b]fluoranth	20.000	19.367	3.2	96	0.13
87	TM	B[k]fluoranth	20.000	21.477	-7.4	108	0.13
88	CTM	Benz[a]pyrene	20.000	20.469	-2.3	101	0.14
89	TM	Indeno-pyrene	20.000	21.052	-5.3	103	0.20
90	TM	Dib[ah]anthr	20.000	21.355	-6.8	105	0.20
91	TM	B[ghi]perylen	20.000	21.136	-5.7	104	0.21

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S120210B\2ICV1.D Vial: 9
Acq On : 2 Dec 2010 14:10 Operator: RPN
Sample : ICV 1 20ug/ml SVMS4686 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 14:33:36 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 14:33:20 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	14Diclbenzd4	1.000	1.000	0.0	107	0.13
2	TM	Ntrsdimeth	0.710	0.706	0.6	105	0.09
3	TM	Pyridine	1.262	1.285	-1.8	106	0.05
4	S	SURR2Flphenol	0.498	0.490	1.6	103	0.10
5	TM	Aniline	1.928	1.924	0.2	105	0.13
6	TM	bis2Clethletr	1.197	1.212	-1.3	107	0.13
7	S	SURRPhenol-d5	0.598	0.580	3.0	103	0.12
8	CTM	Phenol	1.474	1.477	-0.2	104	0.12
9	TM	2-Cl-phenol	1.343	1.331	0.9	106	0.13
10	TM	13Diclbenz	1.551	1.519	2.1	104	0.13
11	CTM	14Diclbenz	1.576	1.570	0.4	106	0.13
12	TM	12Diclbenz	1.495	1.463	2.1	105	0.14
13	TM	Benzyl alcoho	0.604	0.710	-17.5	108	0.13
14	TM	bis2clispreth	2.279	2.216	2.8	105	0.13
15	TM	2Methylphenol	1.127	1.098	2.6	103	0.14
16	TM	Ntrspyrrol	0.596	0.601	-0.8	102	0.14
17	TM	Acetophenone	1.682	1.651	1.8	104	0.14
18	TM	Hexaclethane	0.526	0.512	2.7	102	0.15
19	PTM	N-Ntrsdinprop	0.753	0.746	0.9	105	0.14
20	TM	3&4Methylphenol	1.124	1.135	-1.0	105	0.14
21	I	Naphthalened8	1.000	1.000	0.0	105	0.12
22	S	SURRNitrbenzened5	0.048	0.049	-2.1	105	0.13
23	TM	Nitrobenzene	0.247	0.257	-4.0	106	0.13
24	TM	Isophorone	0.544	0.548	-0.7	104	0.14
25	CTM	2-Nitrophenol	0.184	0.189	-2.7	104	0.13
26	TM	24Dimthpheno	0.279	0.282	-1.1	103	0.12
27	TM	bis2clethoxym	0.375	0.375	0.0	105	0.12
28	CTM	24Diclphenol	0.261	0.272	-4.2	105	0.12
29	TM	124Triclbenz	0.323	0.323	0.0	104	0.12
30	TM	Benzoic acid	0.175	0.192	-9.7	110	0.11
31	TM	Naphthalene	1.021	1.031	-1.0	105	0.11
32	TM	4-Cl-aniline	0.383	0.387	-1.0	103	0.11
33	TM	26Diclphenol	0.236	0.234	0.8	98	0.11
34	TM	Hexaclprop	0.166	0.168	-1.2	101	0.11
35	CTM	Hexaclbutdien	0.152	0.151	0.7	103	0.11
36	CTM	4Cl3methylphe	0.250	0.256	-2.4	103	0.10
37	TM	2Methylnaphth	0.570	0.570	0.0	102	0.10
38	TM	1Methylnaphth	0.591	0.595	-0.7	103	0.10
39	I	Acenaphthened10	1.000	1.000	0.0	102	0.09
40	PTM	Hxclcycpentdi	0.310	0.336	-8.4	103	0.09
41	TM	1245Tetrclbenz	0.533	0.544	-2.1	103	0.09
42	CTM	246Triclpheno	0.351	0.363	-3.4	101	0.09
43	TM	245Triclpheno	0.373	0.382	-2.4	101	0.09
44	S	SURR2Flbiphenyl	0.262	0.266	-1.5	101	0.09
45	TM	2Clnaphthalen	1.155	1.179	-2.1	101	0.09
46	TM	2Nitroaniline	0.270	0.288	-6.7	105	0.09
47	TM	Acnaphthylene	1.979	2.019	-2.0	102	0.09
48	TM	Dimethylphtha	1.358	1.407	-3.6	103	0.09
49	TM	26Dinitrotolu	0.294	0.305	-3.7	102	0.09
50	CTM	Acenaphthene	1.244	1.273	-2.3	103	0.09
51	TM	3Nitroaniline	0.314	0.322	-2.5	103	0.09

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S120210B\2ICV1.D Vial: 9
Acq On : 2 Dec 2010 14:10 Operator: RPN
Sample : ICV 1 20ug/ml SVMS4686 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 14:33:36 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 14:33:20 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
52	PTM	24Dinitphenol	0.164	0.167	-1.8	100	0.09
53	TM	Dibenzofuran	1.619	1.661	-2.6	103	0.09
54	TM	24Dinitrotolu	0.364	0.386	-6.0	101	0.09
55	PTM	4-Nitrophenol	0.101	0.102	-1.0	104	0.09
56	TM	2,3,5,6-Tetrachlorop	0.262	0.284	-8.4	100	0.09
57	TM	2,3,4,6-Tetrachlorop	0.277	0.301	-8.7	103	0.09
58	TM	Fluorene	1.306	1.298	0.6	102	0.09
59	TM	4Clphlphlethr	0.581	0.590	-1.5	102	0.09
60	TM	Diethylphthal	1.370	1.400	-2.2	102	0.09
61	TM	4Nitroaniline	0.308	0.318	-3.2	104	0.09
62	S	SURR246Tribrphenl	0.060	0.060	0.0	96	0.09
63	I	Phenanthrd10	1.000	1.000	0.0	103	0.08
64	TM	46Dinit2mylph	0.145	0.149	-2.8	104	0.09
65	CTM	Ntrsdiphlam&Diphlam	0.594	0.593	0.2	103	0.09
66	TM	Azobenz&12Diphlhyd	0.224	0.225	-0.4	103	0.09
67	TM	4Brphlphlethr	0.217	0.225	-3.7	106	0.09
68	TM	Hexaclbenzene	0.225	0.221	1.8	102	0.09
69	CTM	Pentaclphenol	0.107	0.109	-1.9	104	0.08
70	TM	Phenanthrene	1.060	1.058	0.2	104	0.08
71	TM	Anthracene	1.075	1.080	-0.5	104	0.07
72	TM	Carbazole	0.911	0.929	-2.0	107	0.08
73	TM	Dinbtylphthal	1.230	1.279	-4.0	104	0.08
74	CTM	Fluoranthene	1.070	1.089	-1.8	104	0.08
75	I	Chrysene-d12	1.000	1.000	0.0	102	0.11
76	TM	Benzidine	0.336	0.279	17.0	100	0.10
77	TM	Pyrene	1.193	1.221	-2.3	106	0.10
78	S	SURRTerphenyl-d14	0.145	0.146	-0.7	102	0.10
79	TM	Btylbzylphth	0.580	0.600	-3.4	104	0.10
80	TM	33Diclbnzidin	0.255	0.224	12.2	101	0.11
81	TM	B[a]anthracen	1.112	1.130	-1.6	104	0.11
82	TM	Chrysene	1.066	1.075	-0.8	102	0.11
83	TM	bis2Ethlhxlph	0.843	0.880	-4.4	104	0.10
84	CTM	Dinoctylphthl	1.498	1.550	-3.5	103	0.11
85	I	Perylene-d12	1.000	1.000	0.0	101	0.14
86	TM	B[b]fluoranth	1.178	1.141	3.1	96	0.13
87	TM	B[k]fluoranth	1.113	1.195	-7.4	108	0.13
88	CTM	Benz[a]pyrene	1.075	1.100	-2.3	101	0.14
89	TM	Indeno-pyrene	1.092	1.149	-5.2	103	0.20
90	TM	Dib[ah]anthr	0.886	0.946	-6.8	105	0.20
91	TM	B[ghi]perylen	0.907	0.958	-5.6	104	0.21

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICV1.D Vial: 9
Acq On : 2 Dec 2010 14:10 Operator: RPN
Sample : ICV 1 20ug/ml SVMS4686 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 14:33:36 2010

RPN
12/02/10

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 14:33:20 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Compound		R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards							
1) 14Diclbenzd4		4.425	152	514539	20.00	ug/mL	0.00
21) Naphthalened8		6.071	136	2311544	20.00	ug/mL	0.00
39) Acenaphthened10		7.574	164	1186636	20.00	ug/mL	0.00
63) Phenanthrd10		8.466	188	1773794	20.00	ug/mL	0.00
75) Chrysene-d12		9.938	240	1627497	20.00	ug/mL	0.00
85) Perylene-d12		10.907	264	1429018	20.00	ug/mL	0.00
System Monitoring Compounds							
4) SURR2Flphenol		3.158	112	630746	49.24	%REC	0.00
Spiked Amount	100.000	Range 20 - 110		Recovery = 49.24%			
7) SURRPhenol-d5		3.991	99	746523	48.52	%REC	0.00
Spiked Amount	100.000	Range 10 - 115		Recovery = 48.52%			
22) SURRNitrbenzened5		5.127	82	570116	102.20	%REC	0.00
Spiked Amount	100.000	Range 40 - 110		Recovery = 102.20%			
44) SURR2Flbiphenyl		7.085	172	1577102	101.58	%REC	0.00
Spiked Amount	100.000	Range 50 - 110		Recovery = 101.58%			
62) SURR246Tribrphenl		8.088	330	178781	49.83	%REC	0.00
Spiked Amount	100.000	Range 40 - 125		Recovery = 49.83%			
78) SURRTerphenyl-d14		9.276	244	1185961	100.32	ug/mL	0.00
Spiked Amount	100.000	Range 50 - 135		Recovery = 100.32%			
Target Compounds							Qvalue
2) Ntrsdimeth		2.368	74	363429	19.8917	ug/mL	84
3) Pyridine		2.391	79	661185	20.3697	ug/mL	96
5) Aniline		4.059	93	990106	19.9622	ug/mL	89
6) bis2Clethletr		4.127	93	623760	20.2609	ug/mL	98
8) Phenol		4.008	94	759867	20.0359	ug/mL	85
9) 2-Cl-phenol		4.181	128	684736	19.8228	ug/mL	98
10) 13Diclbenz		4.360	146	781373	19.5831	ug/mL	98
11) 14Diclbenz		4.448	146	808018	19.9306	ug/mL	95
12) 12Diclbenz		4.624	146	752902	19.5734	ug/mL	94
13) Benzyl alcoho		4.590	108	365313	20.4748	ug/mL#	73
14) bis2clispreth		4.763	45	1140226	19.4454	ug/mL	95
15) 2Methylphenol		4.721	108	565203	19.4896	ug/mL	96
16) Ntrspyrrol		4.908	100	309411	20.1863	ug/mL	82
17) Acetophenone		4.928	105	849347	19.6274	ug/mL	84
18) Hexaclethane		5.050	117	263270	19.4671	ug/mL	92
19) N-Ntrsdinprop		4.937	70	383897	19.8206	ug/mL	97
20) 3&4Methylphenol		4.931	108	584118	20.1960	ug/mL	97
23) Nitrobenzene		5.153	77	593076	20.8122	ug/mL	84
24) Isophorone		5.511	82	1265876	20.1253	ug/mL	93
25) 2-Nitrophenol		5.607	139	436346	20.4789	ug/mL	74
26) 24Dimthpheno		5.681	107	652141	20.1976	ug/mL	88
27) bis2clethoxym		5.815	93	867879	20.0129	ug/mL	89
28) 24Diclphenol		5.914	162	629158	20.8682	ug/mL	97
29) 124Triclbenz		6.008	180	745534	19.9723	ug/mL	97
30) Benzoic acid		5.820	105	444760	20.4330	ug/mL	91
31) Naphthalene		6.093	128	2383523	20.2043	ug/mL	100
32) 4-Cl-aniline		6.167	127	893513	20.1913	ug/mL	92
33) 26Diclphenol		6.170	162	540113	19.7850	ug/mL	96
34) Hexaclprop		6.190	213	389491	20.2895	ug/mL	98
35) Hexaclbutdien		6.232	225	349090	19.8904	ug/mL	95
36) 4Cl3methylphe		6.662	107	590770	20.4867	ug/mL	87
37) 2Methylnaphth		6.775	141	1318398	20.0206	ug/mL	100
38) 1Methylnaphth		6.860	141	1376131	20.1342	ug/mL	96
40) Hxclcycpentdi		6.909	237	398303	20.1545	ug/mL	97

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICV1.D Vial: 9
Acq On : 2 Dec 2010 14:10 Operator: RPN
Sample : ICV 1 20ug/ml SVMS4686 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 14:33:36 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 14:33:20 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

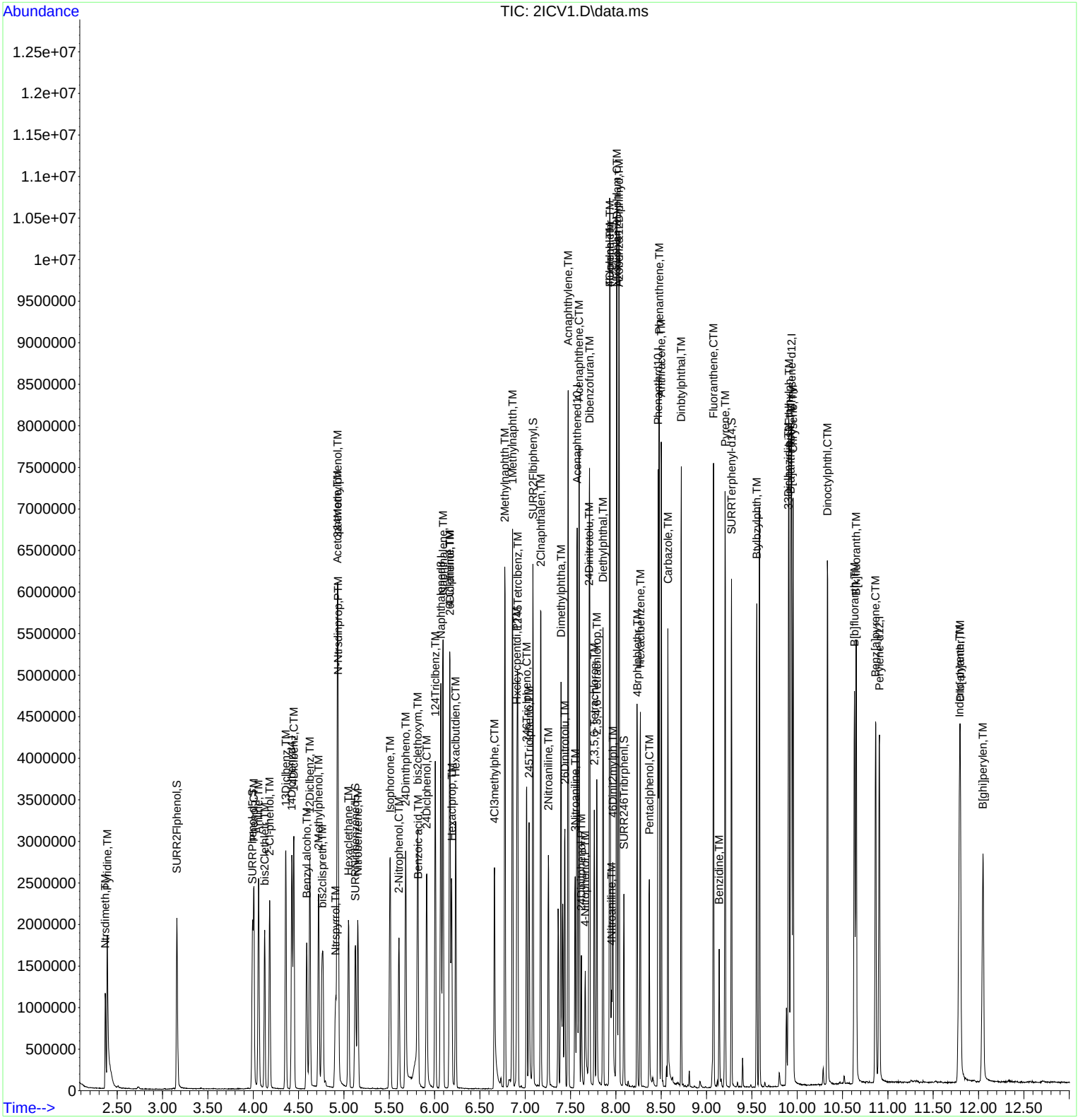
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	6.917	216	645291	20.4165 ug/mL	96
42) 246Triclpheno	7.017	196	430211	20.6645 ug/mL	94
43) 245Triclpheno	7.042	196	453871	20.5257 ug/mL	98
45) 2Clnaphthalen	7.173	162	1399469	20.4158 ug/mL	98
46) 2Nitroaniline	7.255	65	342023	21.3683 ug/mL#	70
47) Acnaphthylene	7.474	152	2396062	20.4025 ug/mL	98
48) Dimethylphtha	7.395	163	1669221	20.7216 ug/mL	98
49) 26Dinitrotolu	7.437	165	361639	20.7548 ug/mL	83
50) Acenaphthene	7.594	153	1510830	20.4622 ug/mL	99
51) 3Nitroaniline	7.551	138	381575	20.4610 ug/mL	85
52) 24Dinitphenol	7.619	184	197921	19.2777 ug/mL	76
53) Dibenzofuran	7.710	168	1970486	20.5108 ug/mL	95
54) 24Dinitrotolu	7.704	165	458050	21.2358 ug/mL	85
55) 4-Nitrophenol	7.662	109	121054	20.2560 ug/mL	79
56) 2,3,5,6-Tetrachlorop	7.761	232	336963	20.0372 ug/mL	96
57) 2,3,4,6-Tetrachlorop	7.790	232	356592	20.2087 ug/mL	96
58) Fluorene	7.934	166	1540116	19.8813 ug/mL	99
59) 4Clphlphlethr	7.932	204	700096	20.3173 ug/mL	97
60) Diethylphthal	7.858	149	1661023	20.4286 ug/mL	99
61) 4Nitroaniline	7.952	138	377184	20.6088 ug/mL#	71
64) 46Dinit2mylph	7.966	198	265029	20.6193 ug/mL	95
65) Ntrsdiphlam&Diphlam	8.011	169	2104433	39.9427 ug/mL	97
66) Azobenz&12Diphlhyd	8.034	182	798212	40.1030 ug/mL#	77
67) 4Brphlphlethr	8.236	248	399717	20.7663 ug/mL	85
68) Hexaclbenzene	8.270	284	391868	19.6273 ug/mL	95
69) Pentaclphenol	8.369	266	193685	19.5745 ug/mL	95
70) Phenanthrene	8.477	178	1877265	19.9594 ug/mL	99
71) Anthracene	8.500	178	1915421	20.0872 ug/mL	98
72) Carbazole	8.574	167	1648165	20.4028 ug/mL	98
73) Dinbtylphthal	8.722	149	2269136	20.8046 ug/mL	99
74) Fluoranthene	9.077	202	1930797	20.3431 ug/mL	97
76) Benzidine	9.139	184	453500	18.6985 ug/mL	98
77) Pyrene	9.205	202	1987987	20.4834 ug/mL	94
79) Btylbzylphth	9.554	149	976210	20.6867 ug/mL	88
80) 33Diclbnzidin	9.904	252	364533	19.4917 ug/mL	97
81) B[a]anthracen	9.929	228	1839795	20.3266 ug/mL	98
82) Chrysene	9.955	228	1749702	20.1762 ug/mL	98
83) bis2Ethlhxlph	9.909	149	1432229	20.8825 ug/mL	99
84) Dinoctylphthl	10.333	149	2522263	20.6975 ug/mL	99
86) B[b]fluoranth	10.631	252	1630216	19.3672 ug/mL	98
87) B[k]fluoranth	10.651	252	1707615	21.4769 ug/mL	97
88) Benz[a]pyrene	10.864	252	1572560	20.4687 ug/mL	98
89) Indeno-pyrene	11.790	276	1642269	21.0520 ug/mL	94
90) Dib[ah]anthr	11.799	278	1351643	21.3547 ug/mL	98
91) B[ghi]perylen	12.049	276	1369556	21.1360 ug/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICV1.D Vial: 9
Acq On : 2 Dec 2010 14:10 Operator: RPN
Sample : ICV 1 20ug/ml SVMS4686 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 14:33:36 2010

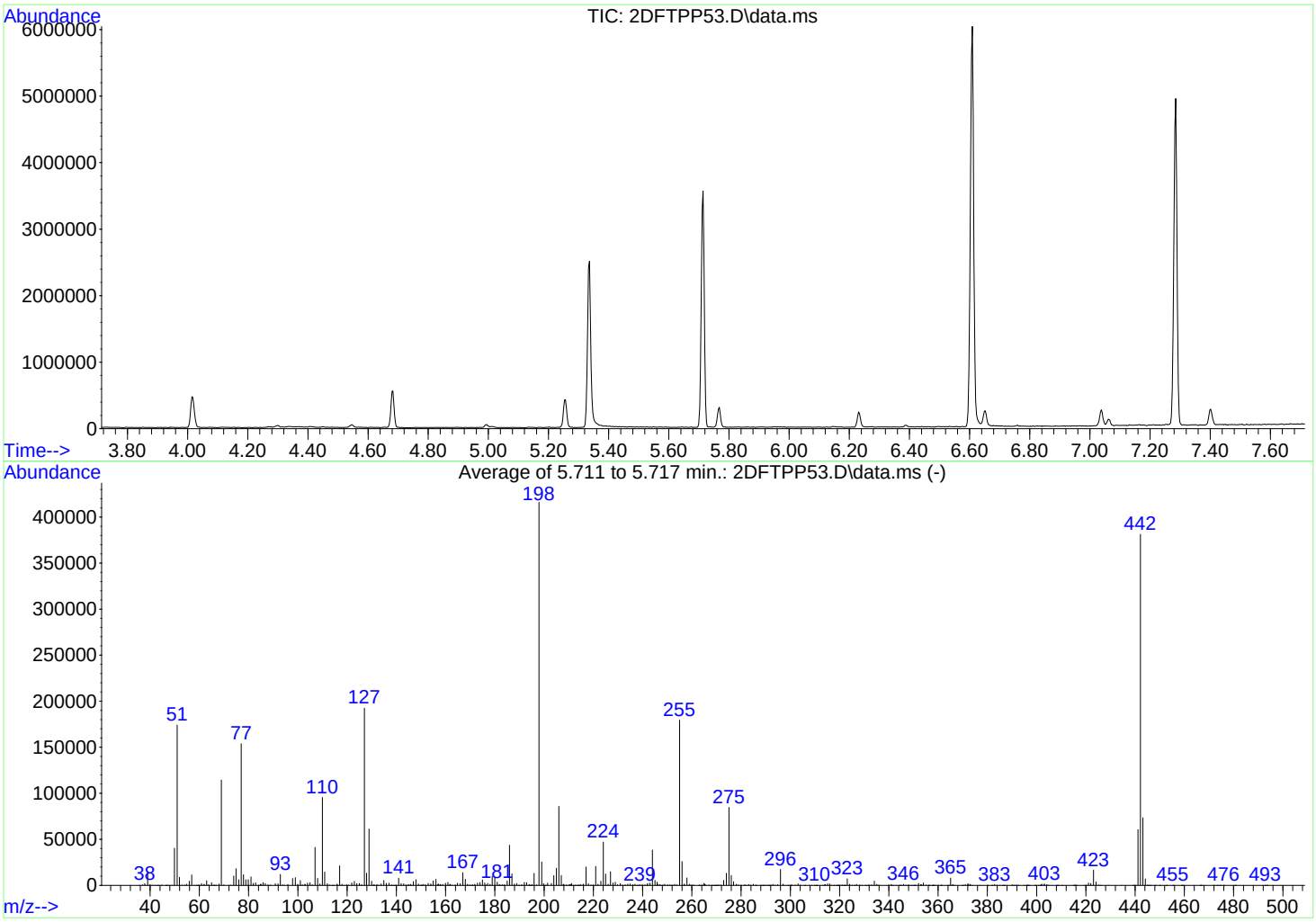
Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 14:33:20 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M



Data File : C:\INSTARCH\DATA\2S120510\2DFTPP53.D Vial: 1
Acq On : 5 Dec 2010 12:45 Operator: RPN
Sample : DFTPP SVMS4646 Inst : SVMS2
Misc : SVMS2,25 ng DFTPP Multiplr: 1.00
Integrator: RTE

RPN
12/14/10

Method : C:\INSTARCH\METHOD\2DFTPP.M
Title : DFTPP TUNE Method
Last Update : Tue Dec 14 11:33:59 2010



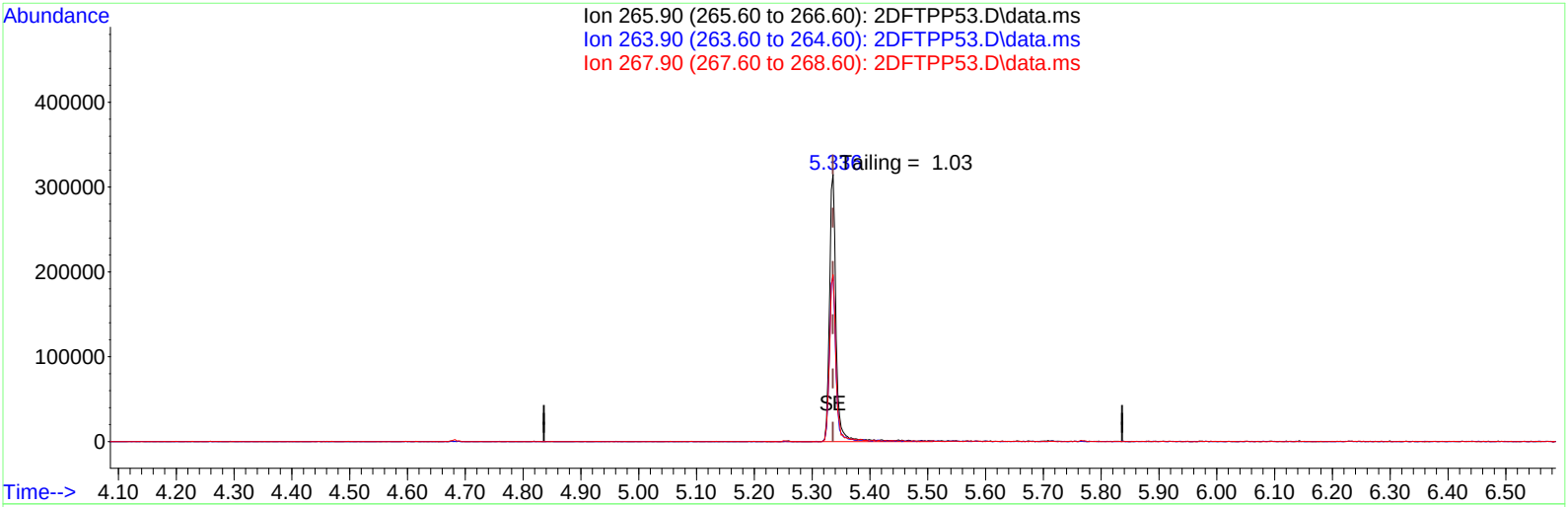
AutoFind: Scans 819, 820, 821; Background Corrected with Scan 807

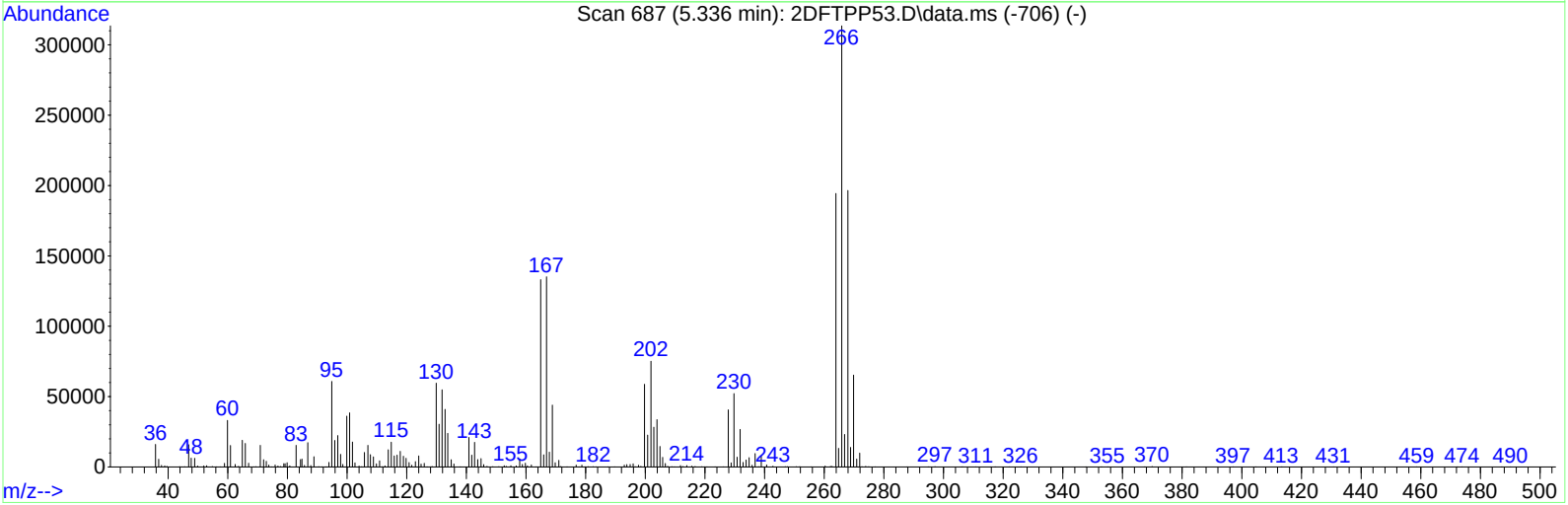
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	41.9	174122	PASS
68	69	0.00	2	1.4	1623	PASS
69	198	0.00	100	27.5	114384	PASS
70	69	0.00	2	0.5	594	PASS
127	198	40	60	46.3	192448	PASS
197	198	0.00	1	0.1	589	PASS
198	198	100	100	100.0	416042	PASS
199	198	5	9	6.1	25565	PASS
275	198	10	30	20.4	84693	PASS
365	198	1	100	1.9	7970	PASS
441	443	0.01	100	82.7	60733	PASS
442	198	40	100	91.6	381269	PASS
443	442	17	23	19.3	73405	PASS

Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\2S120510\2DFTPP53.D Vial: 1
Acq On : 5 Dec 2010 12:45 Operator: RPN
Sample : DFTPP SVMS4646 Inst : SVMS2
Misc : SVMS2,25 ng DFTPP Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 14 11:34:03 2010

Quant Method : C:\INSTARCH\METHOD\2DFTPP.M
Quant Title : DFTPP TUNE Method
QLast Update : Tue Dec 14 11:33:59 2010
Response via : Initial Calibration
DataAcq Meth:2DFTPP.M





TIC: 2DFTPP53.D\data.ms

(1) Pentachlorophenol

5.336min (0.000) 20.64 ng

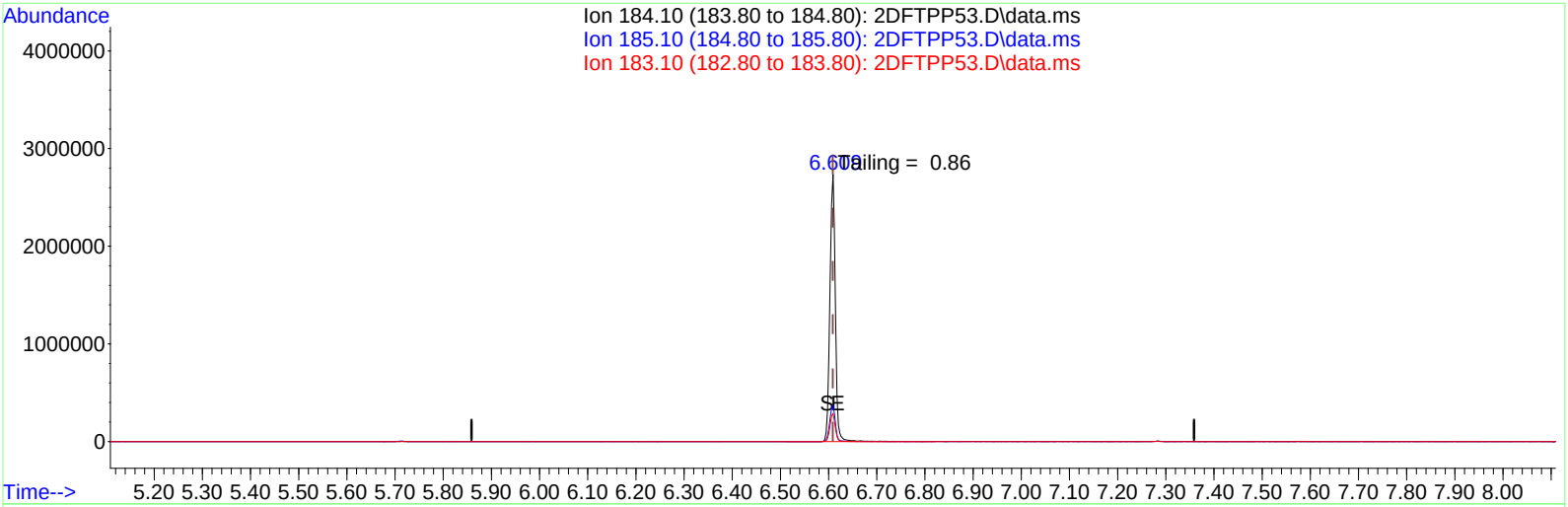
response 243911

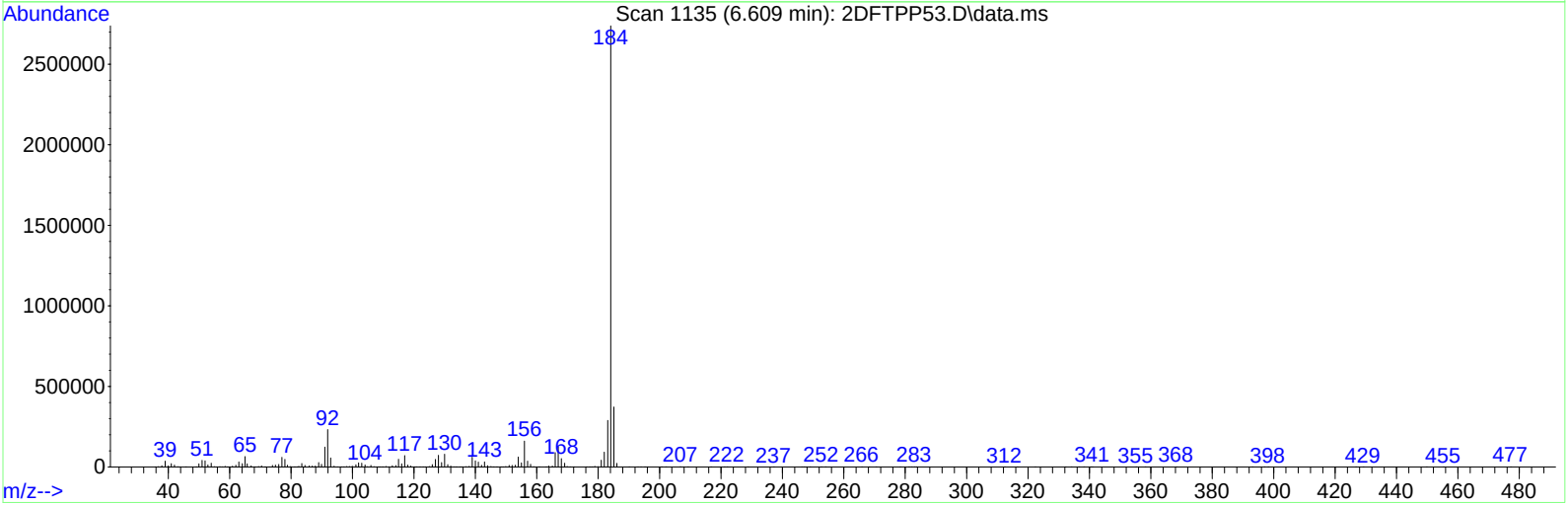
Ion	Exp%	Act%
265.90	100	100
263.90	61.70	61.63
267.90	60.80	62.37
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\2S120510\2DFTPP53.D Vial: 1
Acq On : 5 Dec 2010 12:45 Operator: RPN
Sample : DFTPP SVMS4646 Inst : SVMS2
Misc : SVMS2,25 ng DFTPP Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 14 11:34:03 2010

Quant Method : C:\INSTARCH\METHOD\2DFTPP.M
Quant Title : DFTPP TUNE Method
QLast Update : Tue Dec 14 11:33:59 2010
Response via : Initial Calibration
DataAcq Meth:2DFTPP.M





TIC: 2DFTPP53.D\data.ms

(3) Benzidine

6.609min (0.000) 35.51 ng

response 2127420

Ion	Exp%	Act%
184.10	100	100
185.10	14.10	14.08
183.10	10.30	10.48
0.00	0.00	0.00

Data File	: 2DFTPP53.D	Vial Number	: 1
Data File Path	: C:\INSTARCH\DATA\2S120510\	Operator	: RPN
Date Acquired	: 12/5/2010 12:45	Instrument Name:	SVMS2
Sample Name	: DFTPP SVMS4646	Sample Multiplier:	1
Misc Info	: SVMS2,25 ng DFTPP		

Quant Method	: C:\INSTARCH\METHOD\2DFTPP.M
Calibration Title	: DFTPP TUNE Method
Last Update	: Tue Dec 14 11:33:59 2010

Compound	R.T.	QIon	Response
1) Pentachlorophenol	5.34	266	243911
2) DFTPP	5.71	198	322137
3) Benzidine	6.61	184	2127420
4) DDE	6.76	246	1246
5) DDD	7.06	235	15439
6) DDT	7.29	235	793458

DDT %Degradation

$$\frac{DDD + DDE}{DDD + DDE + DDT} \times 100\% = 2.06\ \%$$

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S120510\2CCV47.D Vial: 2
Acq On : 5 Dec 2010 13:01 Operator: RPN
Sample : CCV 20ug/ml SVMS4688 Inst : SVMS2
Misc : Addl.Comp.,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 14 11:26:26 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Tue Dec 14 11:26:19 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	14Diclbenzd4	20.000	20.000	0.0	65	0.00
2	TM	Ntrsdimeth	20.000	23.263	-16.3	74	0.00
3	TM	Pyridine	20.000	22.760	-13.8	72	0.00
4	S	SURR2Flphenol	50.000	54.794	-9.6	70	0.00
5	TM	Aniline	20.000	21.214	-6.1	68	0.00
6	TM	bis2Clethletr	20.000	21.259	-6.3	68	0.00
7	S	SURRPhenol-d5	50.000	55.523	-11.0	71	0.00
8	CTM	Phenol	20.000	21.903	-9.5	69	0.00
9	TM	2-Cl-phenol	20.000	21.511	-7.6	70	0.00
10	TM	13Diclbenz	20.000	20.934	-4.7	68	0.00
11	CTM	14Diclbenz	20.000	21.227	-6.1	69	0.00
12	TM	12Diclbenz	20.000	20.846	-4.2	68	0.00
13	TM	Benzyl alcoho	20.000	17.999	10.0	57	0.00
14	TM	bis2clispreth	20.000	20.562	-2.8	67	0.00
15	TM	2Methylphenol	20.000	20.981	-4.9	67	0.00
16	TM	Ntrspyrrol	20.000	21.418	-7.1	66	0.00
17	TM	Acetophenone	20.000	20.948	-4.7	67	0.00
18	TM	Hexaclethane	20.000	20.573	-2.9	65	0.00
19	PTM	N-Ntrsdinprop	20.000	20.020	-0.1	64	0.00
20	TM	3&4Methylphenol	20.000	22.179	-10.9	70	0.00
21	I	Naphthalened8	20.000	20.000	0.0	63	0.00
22	S	SURRNitrbenzened5	100.000	108.421	-8.4	67	0.00
23	TM	Nitrobenzene	20.000	22.161	-10.8	68	0.00
24	TM	Isophorone	20.000	20.949	-4.7	65	0.00
25	CTM	2-Nitrophenol	20.000	21.056	-5.3	64	0.00
26	TM	24Dimthpheno	20.000	20.404	-2.0	62	0.00
27	TM	bis2clethoxym	20.000	20.925	-4.6	66	0.00
28	CTM	24Diclphenol	20.000	21.013	-5.1	64	0.00
29	TM	124Triclbenz	20.000	20.640	-3.2	64	0.00
30	TM	Benzoic acid	20.000	17.040	14.8	53	0.00
31	TM	Naphthalene	20.000	21.197	-6.0	66	0.00
32	TM	4-Cl-aniline	20.000	22.474	-12.4	69	0.00
33	TM	26Diclphenol	20.000	21.566	-7.8	64	0.00
34	TM	Hexaclprop	20.000	20.233	-1.2	61	0.00
35	CTM	Hexaclbutdien	20.000	19.566	2.2	61	0.00
36	CTM	4Cl3methylphe	20.000	20.747	-3.7	62	0.00
37	TM	2Methylnaphth	20.000	20.543	-2.7	63	0.00
38	TM	1Methylnaphth	20.000	20.579	-2.9	63	0.00
39	I	Acenaphthened10	20.000	20.000	0.0	57	0.00
40	PTM	Hxclcycpentdi	20.000	20.619	-3.1	59	0.00
41	TM	1245Tetrclbenz	20.000	21.079	-5.4	60	0.00
42	CTM	246Triclpheno	20.000	21.451	-7.3	59	0.00
43	TM	245Triclpheno	20.000	22.063	-10.3	61	0.00
44	S	SURR2Flbiphenyl	100.000	108.227	-8.2	61	0.00
45	TM	2Clnaphthalen	20.000	22.191	-11.0	62	0.00
46	TM	2Nitroaniline	20.000	22.602	-13.0	62	0.00
47	TM	Acnaphthylene	20.000	22.006	-10.0	62	0.00
48	TM	Dimethylphtha	20.000	20.031	-0.2	56	0.00
49	TM	26Dinitrotolu	20.000	20.922	-4.6	58	0.00
50	CTM	Acenaphthene	20.000	21.503	-7.5	61	0.00
51	TM	3Nitroaniline	20.000	24.567	-22.8#	70	0.00

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S120510\2CCV47.D Vial: 2
Acq On : 5 Dec 2010 13:01 Operator: RPN
Sample : CCV 20ug/ml SVMS4688 Inst : SVMS2
Misc : Addl.Comp.,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 14 11:26:26 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Tue Dec 14 11:26:19 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	PTM	24Dinitphenol	20.000	19.239	3.8	56	0.00
53	TM	Dibenzofuran	20.000	21.506	-7.5	61	0.00
54	TM	24Dinitrotolu	20.000	22.038	-10.2	59	0.00
55	PTM	4-Nitrophenol	20.000	21.288	-6.4	62	0.00
56	TM	2,3,5,6-Tetrachlorop	20.000	19.188	4.1	54	0.00
57	TM	2,3,4,6-Tetrachlorop	20.000	19.895	0.5	57	0.00
58	TM	Fluorene	20.000	20.894	-4.5	60	0.00
59	TM	4Clphlphlethr	20.000	21.120	-5.6	60	0.00
60	TM	Diethylphthal	20.000	19.856	0.7	56	0.00
61	TM	4Nitroaniline	20.000	24.366	-21.8#	69	0.00
62	S	SURR246Tribrphenl	50.000	49.462	1.1	53	0.00
63	I	Phenanthrd10	20.000	20.000	0.0	57	0.00
64	TM	46Dinit2mylph	20.000	20.347	-1.7	56	0.00
65	CTM	Ntrsdiphlam&Diphlam	40.000	42.735	-6.8	60	0.00
66	TM	Azobenz&12Diphlhyd	40.000	42.562	-6.4	60	0.00
67	TM	4Brphlphlethr	20.000	20.222	-1.1	57	0.00
68	TM	Hexaclbenzene	20.000	20.056	-0.3	57	0.00
69	CTM	Pentaclphenol	20.000	18.348	8.3	53	0.00
70	TM	Phenanthrene	20.000	21.136	-5.7	60	0.00
71	TM	Anthracene	20.000	21.451	-7.3	61	0.00
72	TM	Carbazole	20.000	22.380	-11.9	64	0.00
73	TM	Dinbtylphthal	20.000	19.823	0.9	55	0.00
74	CTM	Fluoranthene	20.000	19.894	0.5	56	0.00
75	I	Chrysene-d12	20.000	20.000	0.0	50	0.00
76	TM	Benzidine	20.000	31.655	-58.3#	90	0.00
77	TM	Pyrene	20.000	22.245	-11.2	56	0.00
78	S	SURRTerphenyl-d14	100.000	104.162	-4.2	52	0.00
79	TM	Btylbzylphth	20.000	20.689	-3.4	51	0.00
80	TM	33Diclbnzidin	20.000	28.477	-42.4#	74	0.00
81	TM	B[a]anthracen	20.000	21.191	-6.0	53	0.00
82	TM	Chrysene	20.000	20.569	-2.8	51	0.00
83	TM	bis2Ethlhxlph	20.000	20.416	-2.1	50	0.00
84	CTM	Dinoctylphthl	20.000	20.183	-0.9	49	0.00
85	I	Perylene-d12	20.000	20.000	0.0	48	0.00
86	TM	B[b]fluoranth	20.000	20.047	-0.2	47	0.00
87	TM	B[k]fluoranth	20.000	22.664	-13.3	54	0.00
88	CTM	Benz[a]pyrene	20.000	21.111	-5.6	49	0.00
89	TM	Indeno-pyrene	20.000	22.157	-10.8	51	0.00
90	TM	Dib[ah]anthr	20.000	21.963	-9.8	51	0.00
91	TM	B[ghi]perylen	20.000	22.161	-10.8	52	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S120510\2CCV47.D Vial: 2
Acq On : 5 Dec 2010 13:01 Operator: RPN
Sample : CCV 20ug/ml SVMS4688 Inst : SVMS2
Misc : Addl.Comp.,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 14 11:26:26 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Tue Dec 14 11:26:19 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	14Diclbenzd4	1.000	1.000	0.0	65	0.00
2	TM	Ntrsdimeth	0.710	0.826	-16.3	74	0.00
3	TM	Pyridine	1.262	1.436	-13.8	72	0.00
4	S	SURR2Flphenol	0.498	0.546	-9.6	70	0.00
5	TM	Aniline	1.928	2.045	-6.1	68	0.00
6	TM	bis2Clethletr	1.197	1.272	-6.3	68	0.00
7	S	SURRPhenol-d5	0.598	0.664	-11.0	71	0.00
8	CTM	Phenol	1.474	1.614	-9.5	69	0.00
9	TM	2-Cl-phenol	1.343	1.444	-7.5	70	0.00
10	TM	13Diclbenz	1.551	1.623	-4.6	68	0.00
11	CTM	14Diclbenz	1.576	1.673	-6.2	69	0.00
12	TM	12Diclbenz	1.495	1.558	-4.2	68	0.00
13	TM	Benzyl alcoho	0.604	0.615	-1.8	57	0.00
14	TM	bis2clispreth	2.279	2.343	-2.8	67	0.00
15	TM	2Methylphenol	1.127	1.183	-5.0	67	0.00
16	TM	Ntrspyrrol	0.596	0.638	-7.0	66	0.00
17	TM	Acetophenone	1.682	1.762	-4.8	67	0.00
18	TM	Hexaclethane	0.526	0.541	-2.9	65	0.00
19	PTM	N-Ntrsdinprop	0.753	0.754	-0.1	64	0.00
20	TM	3&4Methylphenol	1.124	1.247	-10.9	70	0.00
21	I	Naphthalened8	1.000	1.000	0.0	63	0.00
22	S	SURRNitrbenzened5	0.048	0.052	-8.3	67	0.00
23	TM	Nitrobenzene	0.247	0.273	-10.5	68	0.00
24	TM	Isophorone	0.544	0.570	-4.8	65	0.00
25	CTM	2-Nitrophenol	0.184	0.194	-5.4	64	0.00
26	TM	24Dimthpheno	0.279	0.285	-2.2	62	0.00
27	TM	bis2clethoxym	0.375	0.393	-4.8	66	0.00
28	CTM	24Diclphenol	0.261	0.274	-5.0	64	0.00
29	TM	124Triclbenz	0.323	0.333	-3.1	64	0.00
30	TM	Benzoic acid	0.175	0.155	11.4	53	0.00
31	TM	Naphthalene	1.021	1.082	-6.0	66	0.00
32	TM	4-Cl-aniline	0.383	0.430	-12.3	69	0.00
33	TM	26Diclphenol	0.236	0.255	-8.1	64	0.00
34	TM	Hexaclprop	0.166	0.168	-1.2	61	0.00
35	CTM	Hexaclbutdien	0.152	0.149	2.0	61	0.00
36	CTM	4Cl3methylphe	0.250	0.259	-3.6	62	0.00
37	TM	2Methylnaphth	0.570	0.585	-2.6	63	0.00
38	TM	1Methylnaphth	0.591	0.608	-2.9	63	0.00
39	I	Acenaphthened10	1.000	1.000	0.0	57	0.00
40	PTM	Hxclcycpentdi	0.310	0.344	-11.0	59	0.00
41	TM	1245Tetrclbenz	0.533	0.561	-5.3	60	0.00
42	CTM	246Triclpheno	0.351	0.376	-7.1	59	0.00
43	TM	245Triclpheno	0.373	0.411	-10.2	61	0.00
44	S	SURR2Flbiphenyl	0.262	0.283	-8.0	61	0.00
45	TM	2Clnaphthalen	1.155	1.282	-11.0	62	0.00
46	TM	2Nitroaniline	0.270	0.305	-13.0	62	0.00
47	TM	Acnaphthylene	1.979	2.178	-10.1	62	0.00
48	TM	Dimethylphtha	1.358	1.360	-0.1	56	0.00
49	TM	26Dinitrotolu	0.294	0.307	-4.4	58	0.00
50	CTM	Acenaphthene	1.244	1.338	-7.6	61	0.00
51	TM	3Nitroaniline	0.314	0.386	-22.9#	70	0.00

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S120510\2CCV47.D Vial: 2
Acq On : 5 Dec 2010 13:01 Operator: RPN
Sample : CCV 20ug/ml SVMS4688 Inst : SVMS2
Misc : Addl.Comp.,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 14 11:26:26 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Tue Dec 14 11:26:19 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
52	PTM	24Dinitphenol	0.164	0.166	-1.2	56	0.00
53	TM	Dibenzofuran	1.619	1.741	-7.5	61	0.00
54	TM	24Dinitrotolu	0.364	0.401	-10.2	59	0.00
55	PTM	4-Nitrophenol	0.101	0.107	-5.9	62	0.00
56	TM	2,3,5,6-Tetrachlorop	0.262	0.272	-3.8	54	0.00
57	TM	2,3,4,6-Tetrachlorop	0.277	0.296	-6.9	57	0.00
58	TM	Fluorene	1.306	1.364	-4.4	60	0.00
59	TM	4Clphlphlethr	0.581	0.613	-5.5	60	0.00
60	TM	Diethylphthal	1.370	1.361	0.7	56	0.00
61	TM	4Nitroaniline	0.308	0.376	-22.1#	69	0.00
62	S	SURR246Tribrphenl	0.060	0.060	0.0	53	0.00
63	I	Phenanthrd10	1.000	1.000	0.0	57	0.00
64	TM	46Dinit2mylph	0.145	0.147	-1.4	56	0.00
65	CTM	Ntrsdiphlam&Diphlam	0.594	0.635	-6.9	60	0.00
66	TM	Azobenz&12Diphlhyd	0.224	0.239	-6.7	60	0.00
67	TM	4Brphlphlethr	0.217	0.219	-0.9	57	0.00
68	TM	Hexaclbenzene	0.225	0.226	-0.4	57	0.00
69	CTM	Pentaclphenol	0.107	0.101	5.6	53	0.00
70	TM	Phenanthrene	1.060	1.121	-5.8	60	0.00
71	TM	Anthracene	1.075	1.153	-7.3	61	0.00
72	TM	Carbazole	0.911	1.019	-11.9	64	0.00
73	TM	Dinbtylphthal	1.230	1.219	0.9	55	0.00
74	CTM	Fluoranthene	1.070	1.064	0.6	56	0.00
75	I	Chrysene-d12	1.000	1.000	0.0	50#	0.00
76	TM	Benzidine	0.336	0.511	-52.1#	90	0.00
77	TM	Pyrene	1.193	1.327	-11.2	56	0.00
78	S	SURRTerphenyl-d14	0.145	0.151	-4.1	52	0.00
79	TM	Btylbzylphth	0.580	0.600	-3.4	51	0.00
80	TM	33Diclbnzidin	0.255	0.337	-32.2#	74	0.00
81	TM	B[a]anthracen	1.112	1.179	-6.0	53	0.00
82	TM	Chrysene	1.066	1.096	-2.8	51	0.00
83	TM	bis2Ethlhxlph	0.843	0.860	-2.0	50#	0.00
84	CTM	Dinoctylphthl	1.498	1.511	-0.9	49#	0.00
85	I	Perylene-d12	1.000	1.000	0.0	48#	0.00
86	TM	B[b]fluoranth	1.178	1.181	-0.3	47#	0.00
87	TM	B[k]fluoranth	1.113	1.261	-13.3	54	0.00
88	CTM	Benz[a]pyrene	1.075	1.135	-5.6	49#	0.00
89	TM	Indeno-pyrene	1.092	1.210	-10.8	51	0.00
90	TM	Dib[ah]anthr	0.886	0.973	-9.8	51	0.00
91	TM	B[ghi]perylen	0.907	1.005	-10.8	52	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120510\2CCV47.D Vial: 2
Acq On : 5 Dec 2010 13:01 Operator: RPN
Sample : CCV 20ug/ml SVMS4688 Inst : SVMS2
Misc : Addl.Comp.,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 14 11:26:26 2010

RPN 12/14/10

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Tue Dec 14 11:26:19 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.420	152	311650	20.00	ug/mL	0.00
21) Naphthalened8	6.068	136	1384541	20.00	ug/mL	0.00
39) Acenaphthened10	7.574	164	668026	20.00	ug/mL	0.00
63) Phenanthrd10	8.477	188	973359	20.00	ug/mL	0.00
75) Chrysene-d12	9.932	240	795003	20.00	ug/mL	0.00
85) Perylene-d12	10.895	264	675578	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	3.147	112	425114	54.79	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery = 54.79%			
7) SURRPhenol-d5	3.985	99	517451	55.52	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 55.52%			
22) SURRNitrbenzened5	5.116	82	362252	108.42	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 108.42%			
44) SURR2Flbiphenyl	7.088	172	945939	108.23	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 108.23%			
62) SURR246Tribrphenl	8.088	330	99905	49.46	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 49.46%			
78) SURRTerphenyl-d14	9.276	244	601494	104.16	ug/mL	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 104.16%			
Target Compounds						Qvalue
2) Ntrsdimeth	2.317	74	257435	23.2633	ug/mL	76
3) Pyridine	2.345	79	447467	22.7600	ug/mL	91
5) Aniline	4.047	93	637291	21.2137	ug/mL	90
6) bis2Clethletr	4.116	93	396420	21.2593	ug/mL	96
8) Phenol	3.999	94	503124	21.9027	ug/mL	84
9) 2-Cl-phenol	4.172	128	450060	21.5111	ug/mL	100
10) 13Diclbenz	4.349	146	505905	20.9336	ug/mL	96
11) 14Diclbenz	4.437	146	521244	21.2272	ug/mL	97
12) 12Diclbenz	4.616	146	485666	20.8457	ug/mL	95
13) Benzyl alcoho	4.582	108	191597	17.9995	ug/mL	80
14) bis2clispreth	4.758	45	730279	20.5620	ug/mL	95
15) 2Methylphenol	4.715	108	368538	20.9812	ug/mL	98
16) Ntrspyrrol	4.894	100	198838	21.4176	ug/mL	82
17) Acetophenone	4.920	105	549052	20.9480	ug/mL	83
18) Hexaclethane	5.042	117	168519	20.5731	ug/mL	93
19) N-Ntrsdinprop	4.925	70	234862	20.0201	ug/mL	97
20) 3&4Methylphenol	4.920	108	388535	22.1792	ug/mL	98
23) Nitrobenzene	5.144	77	378259	22.1612	ug/mL	82
24) Isophorone	5.499	82	789265	20.9493	ug/mL	96
25) 2-Nitrophenol	5.602	139	268720	21.0558	ug/mL	77
26) 24Dimthpheno	5.678	107	394595	20.4035	ug/mL	82
27) bis2clethoxym	5.812	93	543522	20.9249	ug/mL	90
28) 24Diclphenol	5.909	162	379464	21.0132	ug/mL	99
29) 124Triclbenz	6.005	180	461477	20.6399	ug/mL	100
30) Benzoic acid	5.795	105	214466	17.0403	ug/mL	85
31) Naphthalene	6.090	128	1497795	21.1970	ug/mL	99
32) 4-Cl-aniline	6.167	127	595692	22.4740	ug/mL	91
33) 26Diclphenol	6.167	162	352629	21.5658	ug/mL	97
34) Hexaclprop	6.187	213	232644	20.2331	ug/mL	98
35) Hexaclbutdien	6.232	225	205684	19.5660	ug/mL	99
36) 4Cl3methylphe	6.661	107	358347	20.7469	ug/mL	90
37) 2Methylnaphth	6.778	141	810286	20.5431	ug/mL	99
38) 1Methylnaphth	6.860	141	842450	20.5786	ug/mL	96
40) Hxclcycpentdi	6.912	237	229534	20.6187	ug/mL	99

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120510\2CCV47.D Vial: 2
Acq On : 5 Dec 2010 13:01 Operator: RPN
Sample : CCV 20ug/ml SVMS4688 Inst : SVMS2
Misc : Addl.Comp.,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 14 11:26:26 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Tue Dec 14 11:26:19 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

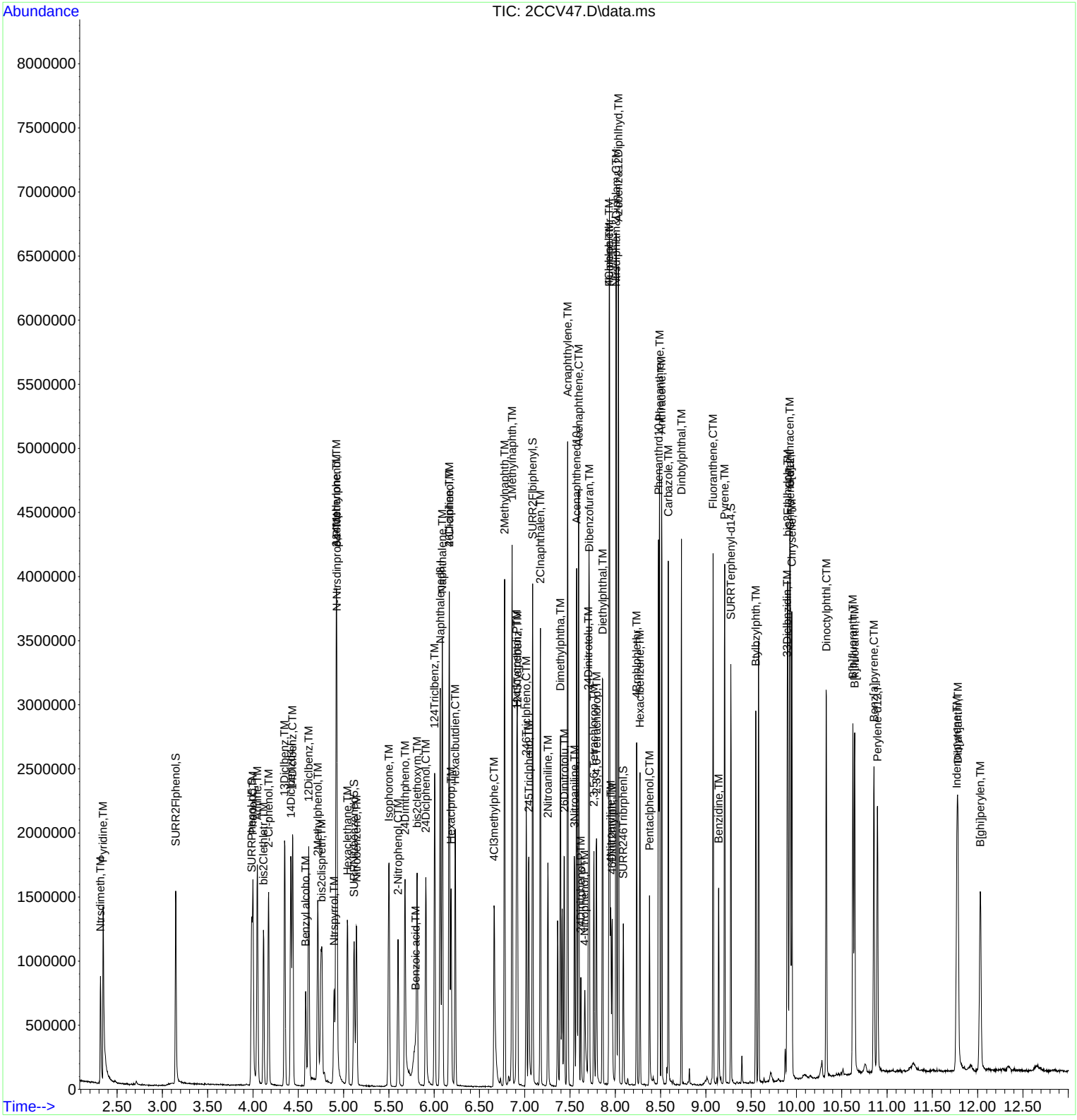
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	6.920	216	375056	21.0788 ug/mL	97
42) 246Triclpheno	7.017	196	251405	21.4507 ug/mL	91
43) 245Triclpheno	7.045	196	274642	22.0626 ug/mL	99
45) 2Clnaphthalen	7.173	162	856337	22.1907 ug/mL	97
46) 2Nitroaniline	7.255	65	203665	22.6025 ug/mL#	70
47) Acnaphthylene	7.474	152	1454916	22.0063 ug/mL	99
48) Dimethylphtha	7.395	163	908390	20.0311 ug/mL	99
49) 26Dinitrotolu	7.437	165	205232	20.9224 ug/mL	83
50) Acenaphthene	7.596	153	893814	21.5035 ug/mL	100
51) 3Nitroaniline	7.551	138	257919	24.5671 ug/mL	84
52) 24Dinitphenol	7.619	184	111165	19.2388 ug/mL	74
53) Dibenzofuran	7.713	168	1163135	21.5062 ug/mL	91
54) 24Dinitrotolu	7.704	165	267602	22.0379 ug/mL	85
55) 4-Nitrophenol	7.662	109	71621	21.2882 ug/mL	77
56) 2,3,5,6-Tetrachlorop	7.764	232	181486	19.1881 ug/mL	98
57) 2,3,4,6-Tetrachlorop	7.792	232	197586	19.8946 ug/mL	98
58) Fluorene	7.934	166	911186	20.8941 ug/mL	98
59) 4Clphlphlethr	7.932	204	409688	21.1196 ug/mL	96
60) Diethylphthal	7.861	149	908861	19.8556 ug/mL	98
61) 4Nitroaniline	7.949	138	251051	24.3661 ug/mL#	72
64) 46Dinit2mylph	7.966	198	143513	20.3470 ug/mL	89
65) Ntrsdiphlam&Diphlam	8.008	169	1235526	42.7350 ug/mL	99
66) Azobenz&12Diphlhyd	8.034	182	464873	42.5621 ug/mL#	80
67) 4Brphlphlethr	8.236	248	213598	20.2225 ug/mL	91
68) Hexaclbenzene	8.273	284	219736	20.0563 ug/mL	94
69) Pentaclphenol	8.378	266	98525	18.3475 ug/mL	93
70) Phenanthrene	8.489	178	1090881	21.1363 ug/mL	98
71) Anthracene	8.511	178	1122436	21.4509 ug/mL	98
72) Carbazole	8.585	167	992054	22.3797 ug/mL	99
73) Dinbtylphthal	8.730	149	1186423	19.8230 ug/mL	98
74) Fluoranthene	9.080	202	1036134	19.8942 ug/mL	99
76) Benzidine	9.142	184	406470	31.6553 ug/mL	98
77) Pyrene	9.207	202	1054633	22.2455 ug/mL	97
79) Btylbzylphth	9.551	149	476915	20.6891 ug/mL	88
80) 33Diclbnzidin	9.898	252	267598	28.4768 ug/mL	98
81) B[a]anthracen	9.926	228	936942	21.1913 ug/mL	98
82) Chrysene	9.949	228	871342	20.5691 ug/mL	99
83) bis2Ethlhxlph	9.904	149	683996	20.4162 ug/mL	99
84) Dinoctylphthl	10.330	149	1201450	20.1829 ug/mL	98
86) B[b]fluoranth	10.622	252	797756	20.0472 ug/mL	97
87) B[k]fluoranth	10.642	252	851913	22.6641 ug/mL	98
88) Benz[a]pyrene	10.855	252	766784	21.1114 ug/mL	97
89) Indeno-pyrene	11.770	276	817152	22.1572 ug/mL	99
90) Dib[ah]anthr	11.782	278	657203	21.9631 ug/mL	97
91) B[ghi]perylen	12.029	276	678854	22.1606 ug/mL	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120510\2CCV47.D Vial: 2
Acq On : 5 Dec 2010 13:01 Operator: RPN
Sample : CCV 20ug/ml SVMS4688 Inst : SVMS2
Misc : Addl.Comp.,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 14 11:26:26 2010

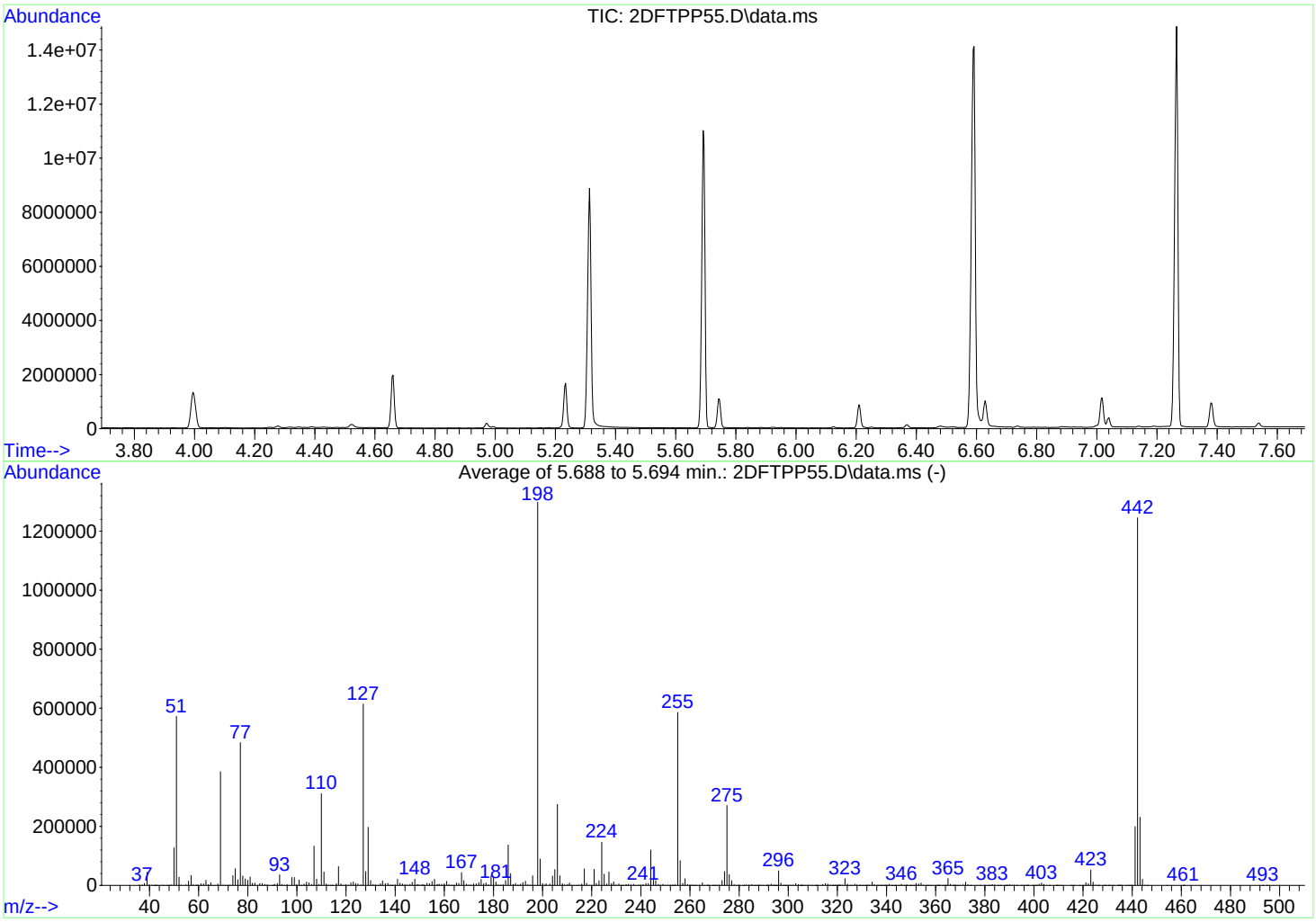
Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Tue Dec 14 11:26:19 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M



Data File : C:\INSTARCH\DATA\2S120810\2DFTPP55.D Vial: 1
Acq On : 8 Dec 2010 12:59 Operator: RPN
Sample : DFTPP SVMS4646 Inst : SVMS2
Misc : SVMS2,25 ng DFTPP Multiplr: 1.00
Integrator: RTE

RPN
12/08/10

Method : C:\INSTARCH\METHOD\2DFTPP.M
Title : DFTPP TUNE Method
Last Update : Thu Dec 09 10:54:06 2010



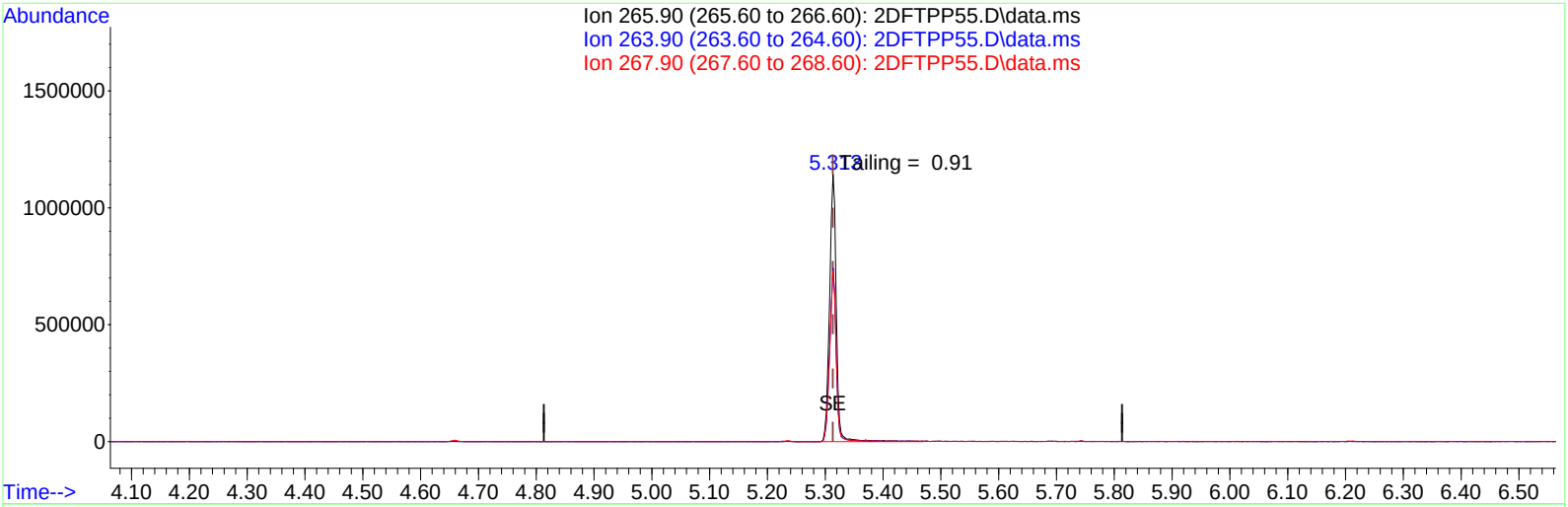
AutoFind: Scans 811, 812, 813; Background Corrected with Scan 802

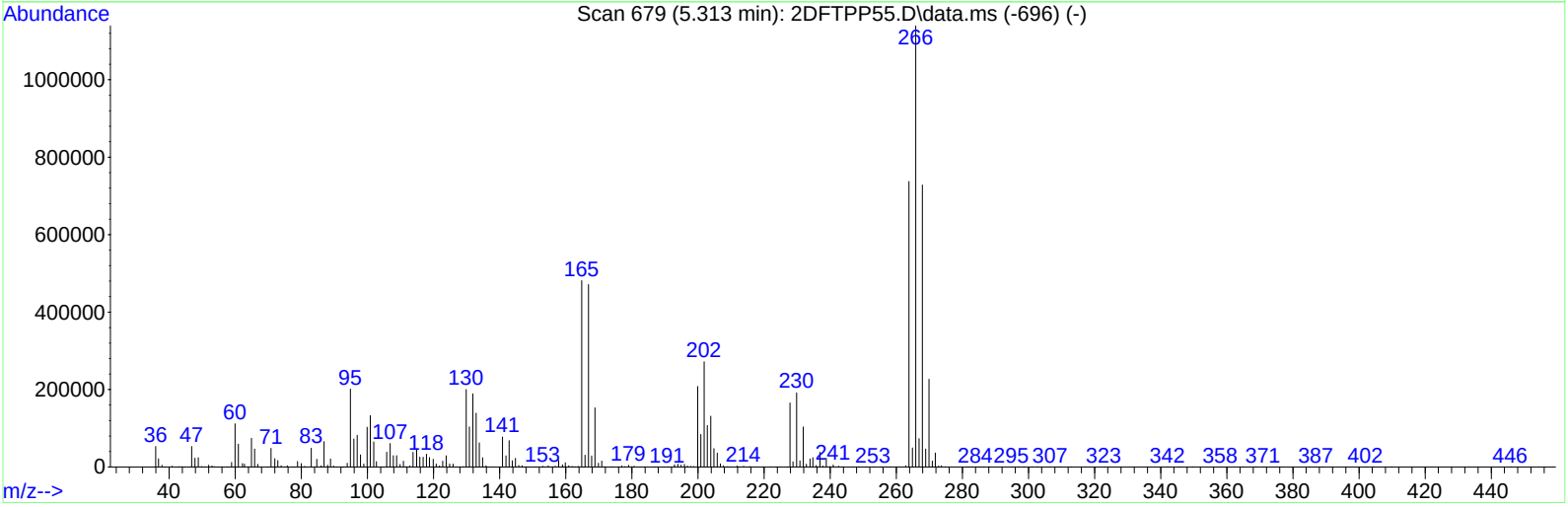
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	44.1	572398	PASS
68	69	0.00	2	1.3	5092	PASS
69	198	0.00	100	29.7	385123	PASS
70	69	0.00	2	0.4	1383	PASS
127	198	40	60	47.3	614321	PASS
197	198	0.00	1	0.1	1155	PASS
198	198	100	100	100.0	1297920	PASS
199	198	5	9	6.9	89080	PASS
275	198	10	30	20.9	270741	PASS
365	198	1	100	1.8	23436	PASS
441	443	0.01	100	86.5	199594	PASS
442	198	40	100	95.9	1245333	PASS
443	442	17	23	18.5	230698	PASS

Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\2S120810\2DFTPP55.D Vial: 1
Acq On : 8 Dec 2010 12:59 Operator: RPN
Sample : DFTPP SVMS4646 Inst : SVMS2
Misc : SVMS2,25 ng DFTPP Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 09 10:54:12 2010

Quant Method : C:\INSTARCH\METHOD\2DFTPP.M
Quant Title : DFTPP TUNE Method
QLast Update : Thu Dec 09 10:54:06 2010
Response via : Initial Calibration
DataAcq Meth:2DFTPP.M





TIC: 2DFTPP55.D\data.ms

(1) Pentachlorophenol

5.313min (0.000) 77.15 ng

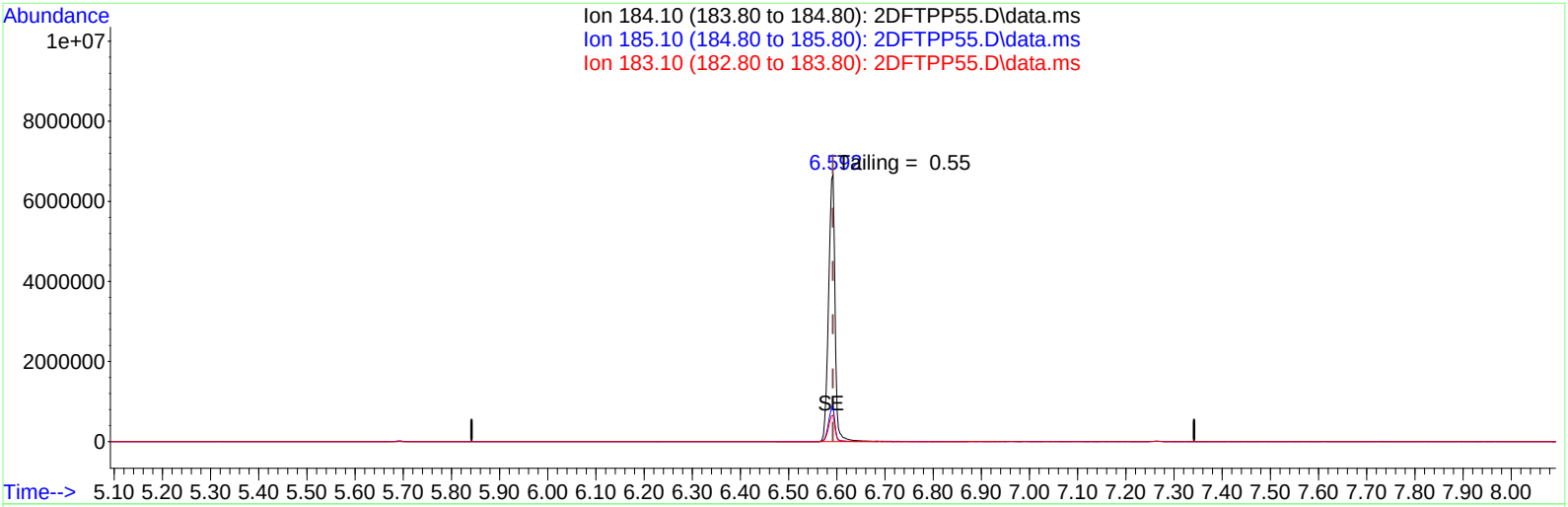
response 911837

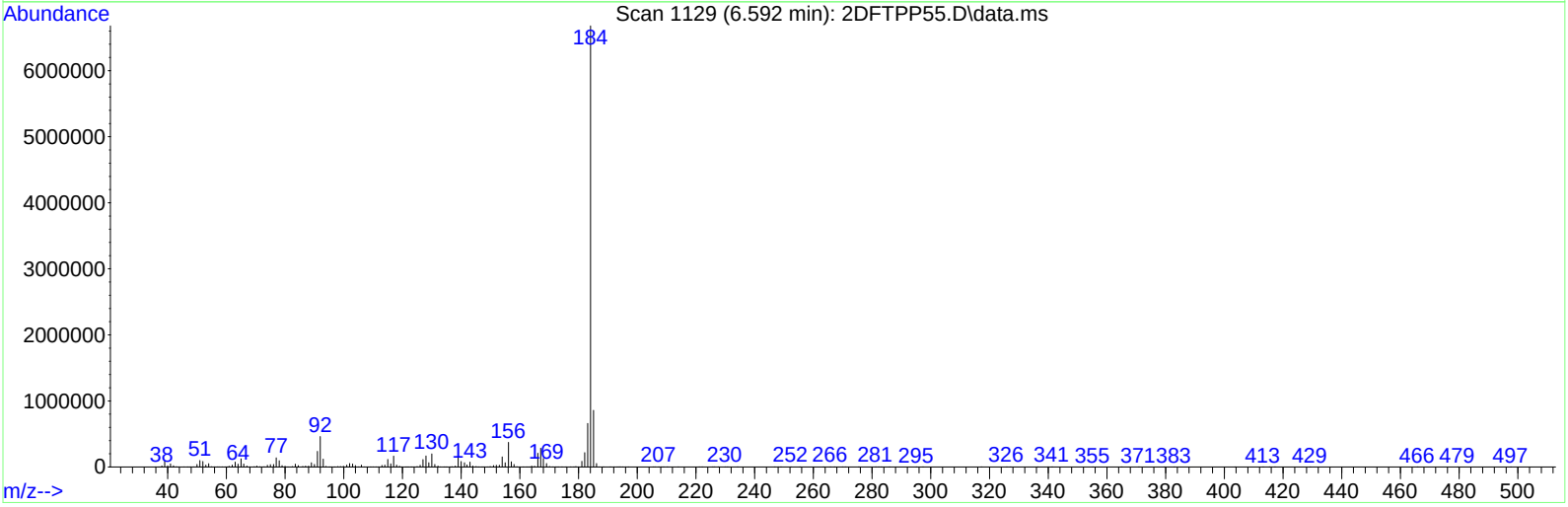
Ion	Exp%	Act%
265.90	100	100
263.90	61.70	64.93
267.90	60.80	64.02
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\2S120810\2DFTPP55.D Vial: 1
Acq On : 8 Dec 2010 12:59 Operator: RPN
Sample : DFTPP SVMS4646 Inst : SVMS2
Misc : SVMS2,25 ng DFTPP Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 09 10:54:12 2010

Quant Method : C:\INSTARCH\METHOD\2DFTPP.M
Quant Title : DFTPP TUNE Method
QLast Update : Thu Dec 09 10:54:06 2010
Response via : Initial Calibration
DataAcq Meth:2DFTPP.M





TIC: 2DFTPP55.D\data.ms

(3) Benzidine

6.592min (0.000) 103.23 ng

response 6184547

Ion	Exp%	Act%
184.10	100	100
185.10	14.10	13.23
183.10	10.30	10.02
0.00	0.00	0.00

Data File	: 2DFTPP55.D	Vial Number	: 1
Data File Path	: C:\INSTARCH\DATA\2S120810\	Operator	: RPN
Date Acquired	: 12/8/2010 12:59	Instrument Name:	SVMS2
Sample Name	: DFTPP SVMS4646	Sample Multiplier:	1
Misc Info	: SVMS2,25 ng DFTPP		

Quant Method	: C:\INSTARCH\METHOD\2DFTPP.M
Calibration Title	: DFTPP TUNE Method
Last Update	: Thu Dec 09 10:54:06 2010

Compound	R.T.	QIon	Response
1) Pentachlorophenol	5.31	266	911837
2) DFTPP	5.69	198	1038202
3) Benzidine	6.59	184	6184547
4) DDE	6.74	246	4192
5) DDD	7.04	235	89684
6) DDT	7.27	235	2611401

DDT %Degradation

$$\frac{DDD + DDE}{DDD + DDE + DDT} \times 100\% = 3.47\ \%$$

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S120810\2CCV51.D Vial: 2
Acq On : 8 Dec 2010 13:15 Operator: RPN
Sample : CCV 20ug/ml SVMS4688 Inst : SVMS2
Misc : Addl.Comp.,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 08 13:34:15 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Wed Dec 08 13:34:10 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	14Diclbenzd4	20.000	20.000	0.0	130	0.00
2	TM	Ntrsdimeth	20.000	22.912	-14.6	146	0.00
3	TM	Pyridine	20.000	22.862	-14.3	144	0.00
4	S	SURR2Flphenol	50.000	56.215	-12.4	143	0.00
5	TM	Aniline	20.000	21.812	-9.1	139	0.00
6	TM	bis2Clethletr	20.000	22.251	-11.3	142	0.00
7	S	SURRPhenol-d5	50.000	55.452	-10.9	142	0.00
8	CTM	Phenol	20.000	22.479	-12.4	142	0.00
9	TM	2-Cl-phenol	20.000	21.625	-8.1	140	0.00
10	TM	13Diclbenz	20.000	21.500	-7.5	139	0.00
11	CTM	14Diclbenz	20.000	21.393	-7.0	138	0.00
12	TM	12Diclbenz	20.000	21.348	-6.7	139	0.00
13	TM	Benzyl alcoho	20.000	21.721	-8.6	139	0.00
14	TM	bis2clispreth	20.000	21.224	-6.1	138	0.00
15	TM	2Methylphenol	20.000	21.837	-9.2	140	0.00
16	TM	Ntrspyrrol	20.000	21.945	-9.7	134	0.00
17	TM	Acetophenone	20.000	20.930	-4.6	134	0.00
18	TM	Hexaclethane	20.000	21.379	-6.9	136	0.00
19	PTM	N-Ntrsdinprop	20.000	20.900	-4.5	134	0.00
20	TM	3&4Methylphenol	20.000	21.202	-6.0	133	0.00
21	I	Naphthalened8	20.000	20.000	0.0	130	0.00
22	S	SURRNitrbenzened5	100.000	106.060	-6.1	135	0.00
23	TM	Nitrobenzene	20.000	21.324	-6.6	135	0.00
24	TM	Isophorone	20.000	20.916	-4.6	134	0.00
25	CTM	2-Nitrophenol	20.000	21.009	-5.0	132	0.00
26	TM	24Dimthpheno	20.000	20.352	-1.8	129	0.00
27	TM	bis2clethoxym	20.000	21.067	-5.3	137	0.00
28	CTM	24Diclphenol	20.000	21.349	-6.7	134	0.00
29	TM	124Triclbenz	20.000	20.638	-3.2	133	0.00
30	TM	Benzoic acid	20.000	20.046	-0.2	133	0.00
31	TM	Naphthalene	20.000	21.176	-5.9	136	0.00
32	TM	4-Cl-aniline	20.000	21.672	-8.4	137	0.00
33	TM	26Diclphenol	20.000	20.752	-3.8	128	0.00
34	TM	Hexaclprop	20.000	20.030	-0.2	124	0.00
35	CTM	Hexaclbutdien	20.000	19.671	1.6	127	0.00
36	CTM	4Cl3methylphe	20.000	20.953	-4.8	130	0.00
37	TM	2Methylnaphth	20.000	20.567	-2.8	131	0.00
38	TM	1Methylnaphth	20.000	20.723	-3.6	132	0.00
39	I	Acenaphthened10	20.000	20.000	0.0	124	0.00
40	PTM	Hxclcycpentdi	20.000	19.048	4.8	118	0.00
41	TM	1245Tetrclbenz	20.000	20.802	-4.0	128	0.00
42	CTM	246Triclpheno	20.000	21.467	-7.3	128	0.00
43	TM	245Triclpheno	20.000	21.302	-6.5	127	0.00
44	S	SURR2Flbiphenyl	100.000	104.166	-4.2	127	0.00
45	TM	2Clnaphthalen	20.000	21.430	-7.1	130	0.00
46	TM	2Nitroaniline	20.000	22.280	-11.4	133	0.00
47	TM	Acnaphthylene	20.000	21.316	-6.6	130	0.00
48	TM	Dimethylphtha	20.000	20.976	-4.9	127	0.00
49	TM	26Dinitrotolu	20.000	21.523	-7.6	129	0.00
50	CTM	Acenaphthene	20.000	21.141	-5.7	129	0.00
51	TM	3Nitroaniline	20.000	23.633	-18.2	145	0.00

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S120810\2CCV51.D Vial: 2
Acq On : 8 Dec 2010 13:15 Operator: RPN
Sample : CCV 20ug/ml SVMS4688 Inst : SVMS2
Misc : Addl.Comp.,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 08 13:34:15 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Wed Dec 08 13:34:10 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	PTM	24Dinitphenol	20.000	21.596	-8.0	139	0.00
53	TM	Dibenzofuran	20.000	20.833	-4.2	127	0.00
54	TM	24Dinitrotolu	20.000	22.175	-10.9	129	0.00
55	PTM	4-Nitrophenol	20.000	21.173	-5.9	133	0.00
56	TM	2,3,5,6-Tetrachlorop	20.000	21.010	-5.1	128	0.00
57	TM	2,3,4,6-Tetrachlorop	20.000	20.807	-4.0	130	0.00
58	TM	Fluorene	20.000	20.296	-1.5	126	0.00
59	TM	4Clphlphlethr	20.000	20.108	-0.5	123	0.00
60	TM	Diethylphthal	20.000	21.168	-5.8	129	0.00
61	TM	4Nitroaniline	20.000	23.954	-19.8	147	0.00
62	S	SURR246Tribrphenl	50.000	54.775	-9.5	128	0.00
63	I	Phenanthrd10	20.000	20.000	0.0	124	0.00
64	TM	46Dinit2mylph	20.000	21.882	-9.4	133	0.00
65	CTM	Ntrsdiphlam&Diphlam	40.000	41.570	-3.9	129	0.00
66	TM	Azobenz&12Diphlhyd	40.000	41.008	-2.5	126	0.00
67	TM	4Brphlphlethr	20.000	20.455	-2.3	126	0.00
68	TM	Hexaclbenzene	20.000	20.359	-1.8	127	0.00
69	CTM	Pentaclphenol	20.000	21.851	-9.3	142	0.00
70	TM	Phenanthrene	20.000	20.922	-4.6	131	0.00
71	TM	Anthracene	20.000	21.139	-5.7	132	0.00
72	TM	Carbazole	20.000	21.116	-5.6	133	0.00
73	TM	Dinbtylphthal	20.000	21.773	-8.9	131	0.00
74	CTM	Fluoranthene	20.000	21.308	-6.5	131	0.00
75	I	Chrysene-d12	20.000	20.000	0.0	118	0.00
76	TM	Benzidine	20.000	23.772	-18.9	153	0.00
77	TM	Pyrene	20.000	21.896	-9.5	131	0.00
78	S	SURRTerphenyl-d14	100.000	106.658	-6.7	126	0.00
79	TM	Btylbzylphth	20.000	22.174	-10.9	129	0.00
80	TM	33Diclbnzidin	20.000	23.909	-19.5	145	0.00
81	TM	B[a]anthracen	20.000	21.261	-6.3	126	0.00
82	TM	Chrysene	20.000	21.782	-8.9	128	0.00
83	TM	bis2Ethlhxlph	20.000	22.251	-11.3	128	0.00
84	CTM	Dinoctylphthl	20.000	22.585	-12.9	131	0.00
85	I	Perylene-d12	20.000	20.000	0.0	124	0.00
86	TM	B[b]fluoranth	20.000	20.148	-0.7	123	0.00
87	TM	B[k]fluoranth	20.000	21.980	-9.9	135	0.00
88	CTM	Benz[a]pyrene	20.000	21.206	-6.0	128	0.00
89	TM	Indeno-pyrene	20.000	22.187	-10.9	133	0.00
90	TM	Dib[ah]anthr	20.000	22.362	-11.8	135	0.00
91	TM	B[ghi]perylen	20.000	22.522	-12.6	136	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S120810\2CCV51.D Vial: 2
Acq On : 8 Dec 2010 13:15 Operator: RPN
Sample : CCV 20ug/ml SVMS4688 Inst : SVMS2
Misc : Addl.Comp.,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 08 13:34:15 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Wed Dec 08 13:34:10 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	14Diclbenzd4	1.000	1.000	0.0	130	0.00
2	TM	Ntrsdimeth	0.710	0.814	-14.6	146	0.00
3	TM	Pyridine	1.262	1.442	-14.3	144	0.00
4	S	SURR2Flphenol	0.498	0.560	-12.4	143	0.00
5	TM	Aniline	1.928	2.103	-9.1	139	0.00
6	TM	bis2Clethletr	1.197	1.331	-11.2	142	0.00
7	S	SURRPhenol-d5	0.598	0.663	-10.9	142	0.00
8	CTM	Phenol	1.474	1.657	-12.4	142	0.00
9	TM	2-Cl-phenol	1.343	1.452	-8.1	140	0.00
10	TM	13Diclbenz	1.551	1.667	-7.5	139	0.00
11	CTM	14Diclbenz	1.576	1.686	-7.0	138	0.00
12	TM	12Diclbenz	1.495	1.596	-6.8	139	0.00
13	TM	Benzyl alcoho	0.604	0.759	-25.7#	139	0.00
14	TM	bis2clispreth	2.279	2.419	-6.1	138	0.00
15	TM	2Methylphenol	1.127	1.231	-9.2	140	0.00
16	TM	Ntrspyrrol	0.596	0.654	-9.7	134	0.00
17	TM	Acetophenone	1.682	1.760	-4.6	134	0.00
18	TM	Hexaclethane	0.526	0.562	-6.8	136	0.00
19	PTM	N-Ntrsdinprop	0.753	0.787	-4.5	134	0.00
20	TM	3&4Methylphenol	1.124	1.192	-6.0	133	0.00
21	I	Naphthalened8	1.000	1.000	0.0	130	0.00
22	S	SURRNitrbenzened5	0.048	0.051	-6.2	135	0.00
23	TM	Nitrobenzene	0.247	0.263	-6.5	135	0.00
24	TM	Isophorone	0.544	0.569	-4.6	134	0.00
25	CTM	2-Nitrophenol	0.184	0.194	-5.4	132	0.00
26	TM	24Dimthpheno	0.279	0.284	-1.8	129	0.00
27	TM	bis2clethoxym	0.375	0.395	-5.3	137	0.00
28	CTM	24Diclphenol	0.261	0.278	-6.5	134	0.00
29	TM	124Triclbenz	0.323	0.333	-3.1	133	0.00
30	TM	Benzoic acid	0.175	0.188	-7.4	133	0.00
31	TM	Naphthalene	1.021	1.081	-5.9	136	0.00
32	TM	4-Cl-aniline	0.383	0.415	-8.4	137	0.00
33	TM	26Diclphenol	0.236	0.245	-3.8	128	0.00
34	TM	Hexaclprop	0.166	0.166	0.0	124	0.00
35	CTM	Hexaclbutdien	0.152	0.149	2.0	127	0.00
36	CTM	4Cl3methylphe	0.250	0.261	-4.4	130	0.00
37	TM	2Methylnaphth	0.570	0.586	-2.8	131	0.00
38	TM	1Methylnaphth	0.591	0.613	-3.7	132	0.00
39	I	Acenaphthened10	1.000	1.000	0.0	124	0.00
40	PTM	Hxclcycpentdi	0.310	0.317	-2.3	118	0.00
41	TM	1245Tetrclbenz	0.533	0.554	-3.9	128	0.00
42	CTM	246Triclpheno	0.351	0.377	-7.4	128	0.00
43	TM	245Triclpheno	0.373	0.397	-6.4	127	0.00
44	S	SURR2Flbiphenyl	0.262	0.273	-4.2	127	0.00
45	TM	2Clnaphthalen	1.155	1.238	-7.2	130	0.00
46	TM	2Nitroaniline	0.270	0.301	-11.5	133	0.00
47	TM	Acnaphthylene	1.979	2.110	-6.6	130	0.00
48	TM	Dimethylphtha	1.358	1.424	-4.9	127	0.00
49	TM	26Dinitrotolu	0.294	0.316	-7.5	129	0.00
50	CTM	Acenaphthene	1.244	1.315	-5.7	129	0.00
51	TM	3Nitroaniline	0.314	0.371	-18.2	145	0.00

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S120810\2CCV51.D Vial: 2
Acq On : 8 Dec 2010 13:15 Operator: RPN
Sample : CCV 20ug/ml SVMS4688 Inst : SVMS2
Misc : Addl.Comp.,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 08 13:34:15 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Wed Dec 08 13:34:10 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
52	PTM	24Dinitphenol	0.164	0.190	-15.9	139	0.00
53	TM	Dibenzofuran	1.619	1.687	-4.2	127	0.00
54	TM	24Dinitrotolu	0.364	0.403	-10.7	129	0.00
55	PTM	4-Nitrophenol	0.101	0.107	-5.9	133	0.00
56	TM	2,3,5,6-Tetrachlorop	0.262	0.298	-13.7	128	0.00
57	TM	2,3,4,6-Tetrachlorop	0.277	0.310	-11.9	130	0.00
58	TM	Fluorene	1.306	1.325	-1.5	126	0.00
59	TM	4Clphlphlethr	0.581	0.584	-0.5	123	0.00
60	TM	Diethylphthal	1.370	1.450	-5.8	129	0.00
61	TM	4Nitroaniline	0.308	0.369	-19.8	147	0.00
62	S	SURR246Tribrphenl	0.060	0.066	-10.0	128	0.00
63	I	Phenanthrd10	1.000	1.000	0.0	124	0.00
64	TM	46Dinit2mylph	0.145	0.159	-9.7	133	0.00
65	CTM	Ntrsdiphlam&Diphlam	0.594	0.617	-3.9	129	0.00
66	TM	Azobenz&12Diphlhyd	0.224	0.230	-2.7	126	0.00
67	TM	4Brphlphlethr	0.217	0.222	-2.3	126	0.00
68	TM	Hexaclbenzene	0.225	0.229	-1.8	127	0.00
69	CTM	Pentaclphenol	0.107	0.124	-15.9	142	0.00
70	TM	Phenanthrene	1.060	1.109	-4.6	131	0.00
71	TM	Anthracene	1.075	1.136	-5.7	132	0.00
72	TM	Carbazole	0.911	0.962	-5.6	133	0.00
73	TM	Dinbtylphthal	1.230	1.339	-8.9	131	0.00
74	CTM	Fluoranthene	1.070	1.140	-6.5	131	0.00
75	I	Chrysene-d12	1.000	1.000	0.0	118	0.00
76	TM	Benzidine	0.336	0.365	-8.6	153	0.00
77	TM	Pyrene	1.193	1.306	-9.5	131	0.00
78	S	SURRTerphenyl-d14	0.145	0.155	-6.9	126	0.00
79	TM	Btylbzylphth	0.580	0.643	-10.9	129	0.00
80	TM	33Diclbnzidin	0.255	0.278	-9.0	145	0.00
81	TM	B[a]anthracen	1.112	1.182	-6.3	126	0.00
82	TM	Chrysene	1.066	1.161	-8.9	128	0.00
83	TM	bis2Ethlhxlph	0.843	0.938	-11.3	128	0.00
84	CTM	Dinoctylphthl	1.498	1.691	-12.9	131	0.00
85	I	Perylene-d12	1.000	1.000	0.0	124	0.00
86	TM	B[b]fluoranth	1.178	1.187	-0.8	123	0.00
87	TM	B[k]fluoranth	1.113	1.223	-9.9	135	0.00
88	CTM	Benz[a]pyrene	1.075	1.140	-6.0	128	0.00
89	TM	Indeno-pyrene	1.092	1.211	-10.9	133	0.00
90	TM	Dib[ah]anthr	0.886	0.990	-11.7	135	0.00
91	TM	B[ghi]perylen	0.907	1.021	-12.6	136	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120810\2CCV51.D Vial: 2
Acq On : 8 Dec 2010 13:15 Operator: RPN
Sample : CCV 20ug/ml SVMS4688 Inst : SVMS2
Misc : Addl.Comp.,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 08 13:34:15 2010

RPN 12/08/10

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Wed Dec 08 13:34:10 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.388	152	622612	20.00	ug/mL	0.00
21) Naphthalened8	6.039	136	2866579	20.00	ug/mL	0.00
39) Acenaphthened10	7.548	164	1444841	20.00	ug/mL	0.00
63) Phenanthrd10	8.446	188	2134590	20.00	ug/mL	0.00
75) Chrysene-d12	9.926	240	1888348	20.00	ug/mL	0.00
85) Perylene-d12	10.884	264	1749196	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	3.127	112	871316	56.22	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery = 56.22%			
7) SURRPhenol-d5	3.959	99	1032442	55.45	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 55.45%			
22) SURRNitrbenzened5	5.087	82	733675	106.06	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 106.06%			
44) SURR2Flbiphenyl	7.062	172	1969168	104.17	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 104.17%			
62) SURR246Tribrphenl	8.065	330	239289	54.77	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 54.77%			
78) SURRTerphenyl-d14	9.261	244	1462942	106.66	ug/mL	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 106.66%			
Target Compounds						Qvalue
2) Ntrsdimeth	2.340	74	506545	22.9124	ug/mL	78
3) Pyridine	2.360	79	897953	22.8620	ug/mL	94
5) Aniline	4.025	93	1309113	21.8125	ug/mL	89
6) bis2Clethletr	4.090	93	828908	22.2509	ug/mL	99
8) Phenol	3.973	94	1031571	22.4787	ug/mL	83
9) 2-Cl-phenol	4.147	128	903899	21.6253	ug/mL	99
10) 13Diclbenz	4.323	146	1038042	21.5001	ug/mL	99
11) 14Diclbenz	4.408	146	1049474	21.3930	ug/mL	99
12) 12Diclbenz	4.587	146	993657	21.3484	ug/mL	95
13) Benzyl alcoho	4.553	108	472254	21.7211	ug/mL#	75
14) bis2clispreth	4.732	45	1505945	21.2244	ug/mL	96
15) 2Methylphenol	4.684	108	766284	21.8368	ug/mL	96
16) Ntrspyrrol	4.874	100	407011	21.9446	ug/mL	80
17) Acetophenone	4.894	105	1095959	20.9302	ug/mL	84
18) Hexaclethane	5.011	117	349860	21.3794	ug/mL	97
19) N-Ntrsdinprop	4.903	70	489833	20.9002	ug/mL	97
20) 3&4Methylphenol	4.894	108	741999	21.2016	ug/mL	97
23) Nitrobenzene	5.116	77	753580	21.3243	ug/mL	82
24) Isophorone	5.474	82	1631533	20.9163	ug/mL	94
25) 2-Nitrophenol	5.570	139	555132	21.0092	ug/mL	75
26) 24Dimthpheno	5.650	107	814913	20.3520	ug/mL	86
27) bis2clethoxym	5.783	93	1132957	21.0670	ug/mL	89
28) 24Diclphenol	5.883	162	798190	21.3487	ug/mL	97
29) 124Triclbenz	5.977	180	955341	20.6375	ug/mL	97
30) Benzoic acid	5.798	105	539265	20.0457	ug/mL	86
31) Naphthalene	6.062	128	3098025	21.1762	ug/mL	100
32) 4-Cl-aniline	6.139	127	1189319	21.6720	ug/mL	92
33) 26Diclphenol	6.141	162	702550	20.7523	ug/mL	95
34) Hexaclprop	6.159	213	476825	20.0296	ug/mL	98
35) Hexaclbutdien	6.204	225	428128	19.6706	ug/mL	100
36) 4Cl3methylphe	6.636	107	749314	20.9534	ug/mL	84
37) 2Methylnaphth	6.750	141	1679622	20.5675	ug/mL	99
38) 1Methylnaphth	6.835	141	1756457	20.7229	ug/mL	99
40) Hxclcycpentdi	6.883	237	457618	19.0479	ug/mL	99

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120810\2CCV51.D Vial: 2
Acq On : 8 Dec 2010 13:15 Operator: RPN
Sample : CCV 20ug/ml SVMS4688 Inst : SVMS2
Misc : Addl.Comp.,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 08 13:34:15 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Wed Dec 08 13:34:10 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

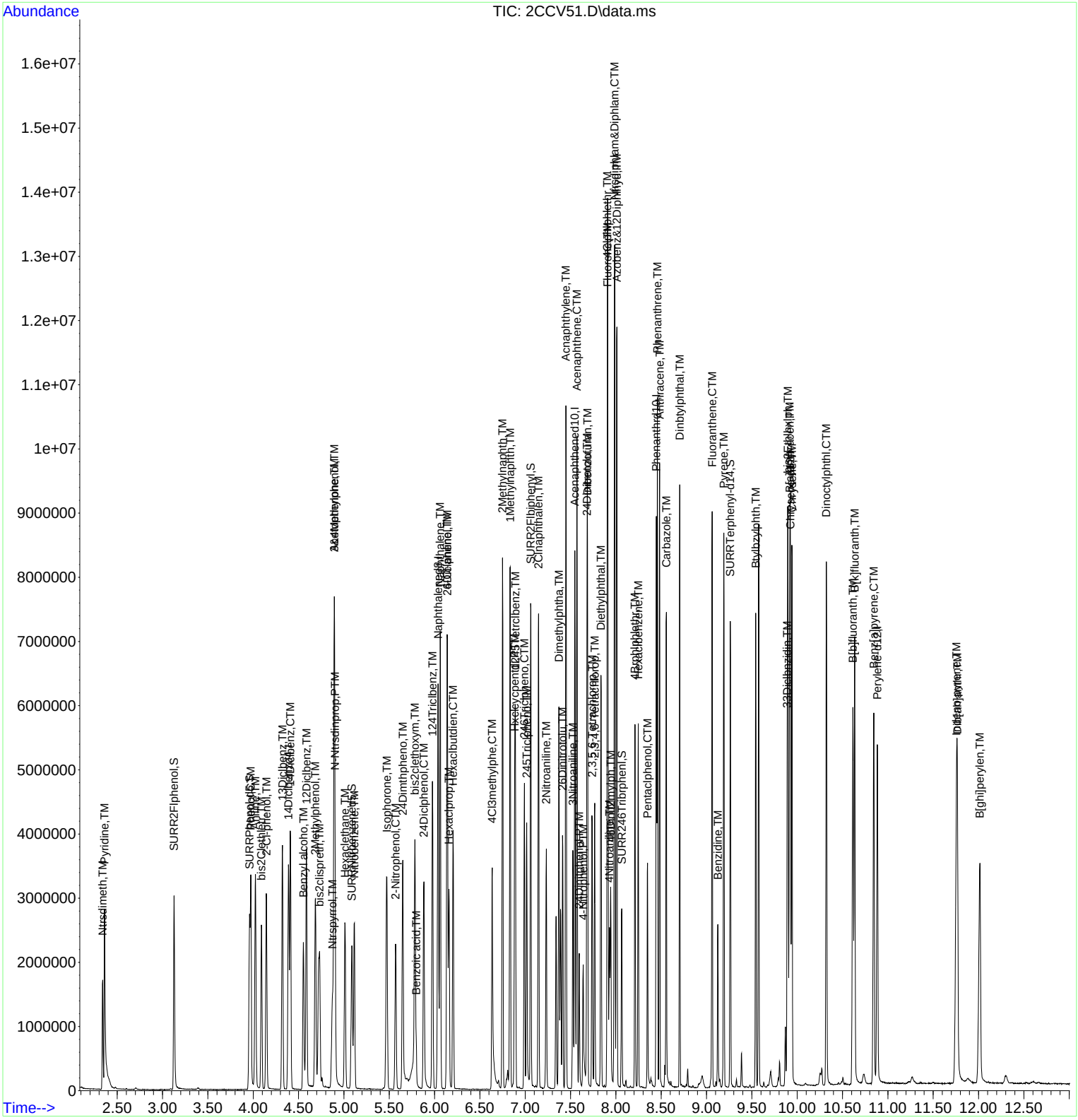
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	6.892	216	800522	20.8016 ug/mL	98
42) 246Triclpheno	6.991	196	544176	21.4674 ug/mL	91
43) 245Triclpheno	7.017	196	573523	21.3017 ug/mL	98
45) 2Clnaphthalen	7.147	162	1788675	21.4305 ug/mL	98
46) 2Nitroaniline	7.233	65	434209	22.2798 ug/mL#	63
47) Acnaphthylene	7.449	152	3048020	21.3157 ug/mL	97
48) Dimethylphtha	7.372	163	2057437	20.9765 ug/mL	99
49) 26Dinitrotolu	7.412	165	456623	21.5228 ug/mL	87
50) Acenaphthene	7.571	153	1900562	21.1406 ug/mL	100
51) 3Nitroaniline	7.525	138	536636	23.6333 ug/mL	86
52) 24Dinitphenol	7.596	184	274063	21.5961 ug/mL	72
53) Dibenzofuran	7.687	168	2436948	20.8330 ug/mL	94
54) 24Dinitrotolu	7.682	165	582378	22.1748 ug/mL	83
55) 4-Nitrophenol	7.639	109	154068	21.1731 ug/mL#	70
56) 2,3,5,6-Tetrachlorop	7.738	232	430633	21.0104 ug/mL	96
57) 2,3,4,6-Tetrachlorop	7.767	232	447205	20.8074 ug/mL	96
58) Fluorene	7.909	166	1914347	20.2960 ug/mL	99
59) 4Clphlphlethr	7.906	204	843656	20.1081 ug/mL	100
60) Diethylphthal	7.835	149	2095631	21.1677 ug/mL	99
61) 4Nitroaniline	7.929	138	533803	23.9540 ug/mL#	73
64) 46Dinit2mylph	7.943	198	338462	21.8816 ug/mL	96
65) Ntrsdiphlam&Diphlam	7.986	169	2635629	41.5695 ug/mL	98
66) Azobenz&12Diphlhyd	8.011	182	982250	41.0080 ug/mL#	72
67) 4Brphlphlethr	8.210	248	473803	20.4547 ug/mL	92
68) Hexaclbenzene	8.247	284	489148	20.3587 ug/mL	98
69) Pentaclphenol	8.349	266	264784	21.8505 ug/mL	98
70) Phenanthrene	8.457	178	2368061	20.9220 ug/mL	100
71) Anthracene	8.483	178	2425707	21.1389 ug/mL	98
72) Carbazole	8.557	167	2052704	21.1157 ug/mL	99
73) Dinbtylphthal	8.704	149	2857789	21.7730 ug/mL	99
74) Fluoranthene	9.062	202	2433719	21.3078 ug/mL	97
76) Benzidine	9.125	184	689655	23.7719 ug/mL	99
77) Pyrene	9.190	202	2465658	21.8957 ug/mL	95
79) Btylbzylphth	9.543	149	1214087	22.1736 ug/mL	87
80) 33Diclbnzidin	9.889	252	525598	23.9085 ug/mL	97
81) B[a]anthracen	9.918	228	2232808	21.2610 ug/mL	98
82) Chrysene	9.943	228	2191723	21.7820 ug/mL	96
83) bis2Ethlhxlph	9.898	149	1770664	22.2507 ug/mL	100
84) Dinoctylphthl	10.321	149	3193461	22.5853 ug/mL	100
86) B[b]fluoranth	10.614	252	2075959	20.1483 ug/mL	98
87) B[k]fluoranth	10.634	252	2139196	21.9802 ug/mL	99
88) Benz[a]pyrene	10.844	252	1994252	21.2061 ug/mL	98
89) Indeno-pyrene	11.756	276	2118623	22.1872 ug/mL	95
90) Dib[ah]anthr	11.768	278	1732503	22.3617 ug/mL	97
91) B[ghi]perylen	12.015	276	1786344	22.5220 ug/mL	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120810\2CCV51.D Vial: 2
Acq On : 8 Dec 2010 13:15 Operator: RPN
Sample : CCV 20ug/ml SVMS4688 Inst : SVMS2
Misc : Addl.Comp.,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 08 13:34:15 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Wed Dec 08 13:34:10 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

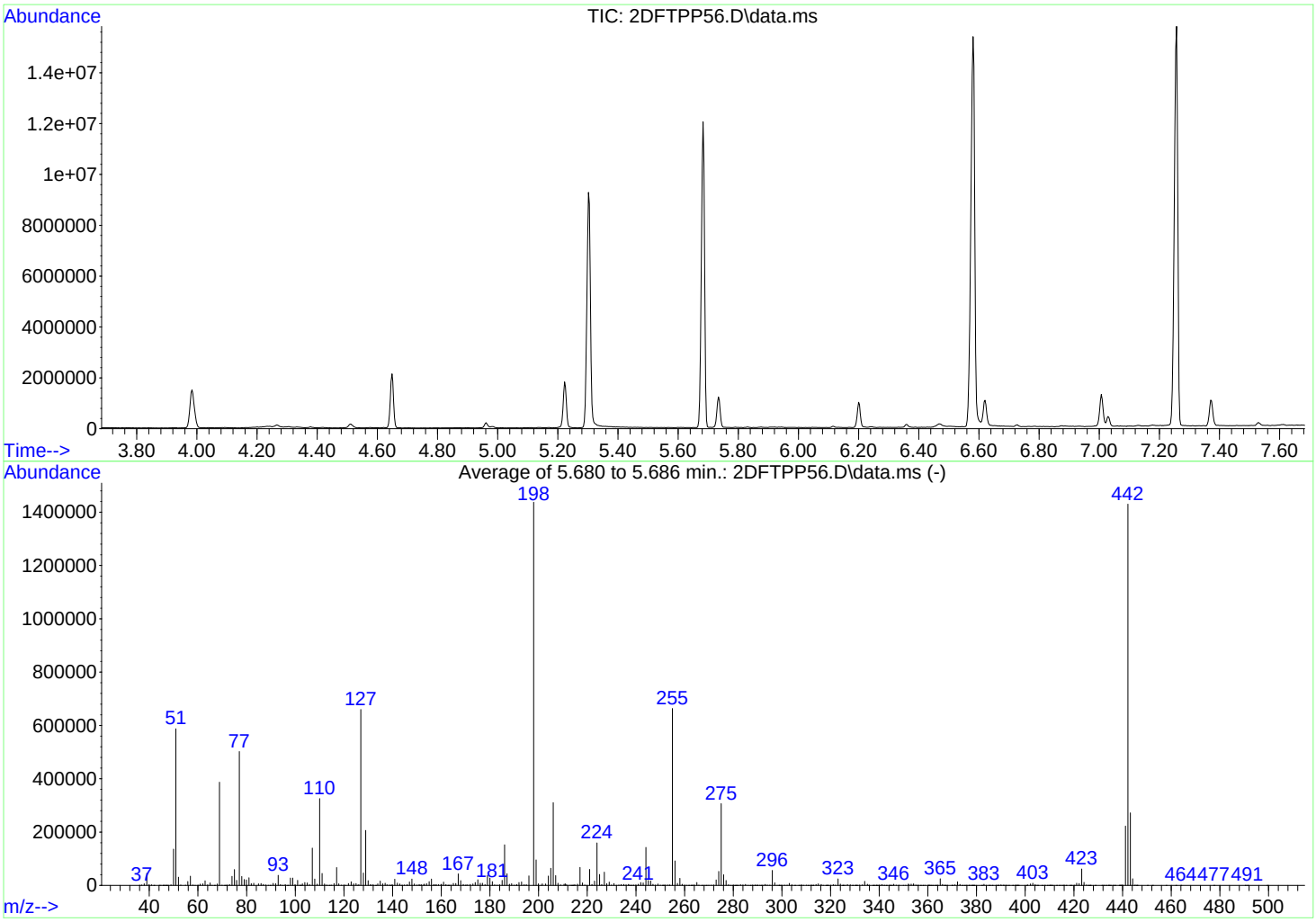


DFTPP

Data File : C:\INSTARCH\DATA\2S120910\2DFTPP56.D Vial: 1
Acq On : 9 Dec 2010 12:47 Operator: RPN
Sample : DFTPP SVMS4646 Inst : SVMS2
Misc : SVMS2,25 ng DFTPP Multiplr: 1.00
Integrator: RTE

RPN
10/15/10

Method : C:\INSTARCH\METHOD\2S120210.M
Title : Method for 8270 analysis for instrument SVMS2
Last Update : Thu Dec 16 09:50:50 2010



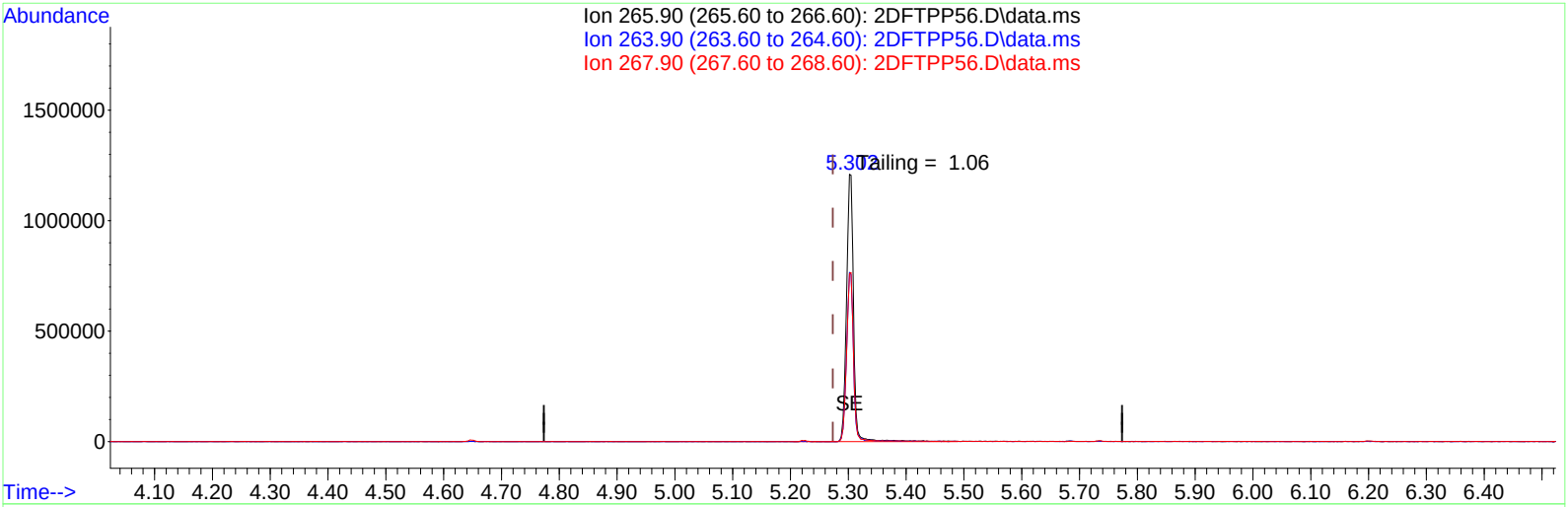
AutoFind: Scans 808, 809, 810; Background Corrected with Scan 799

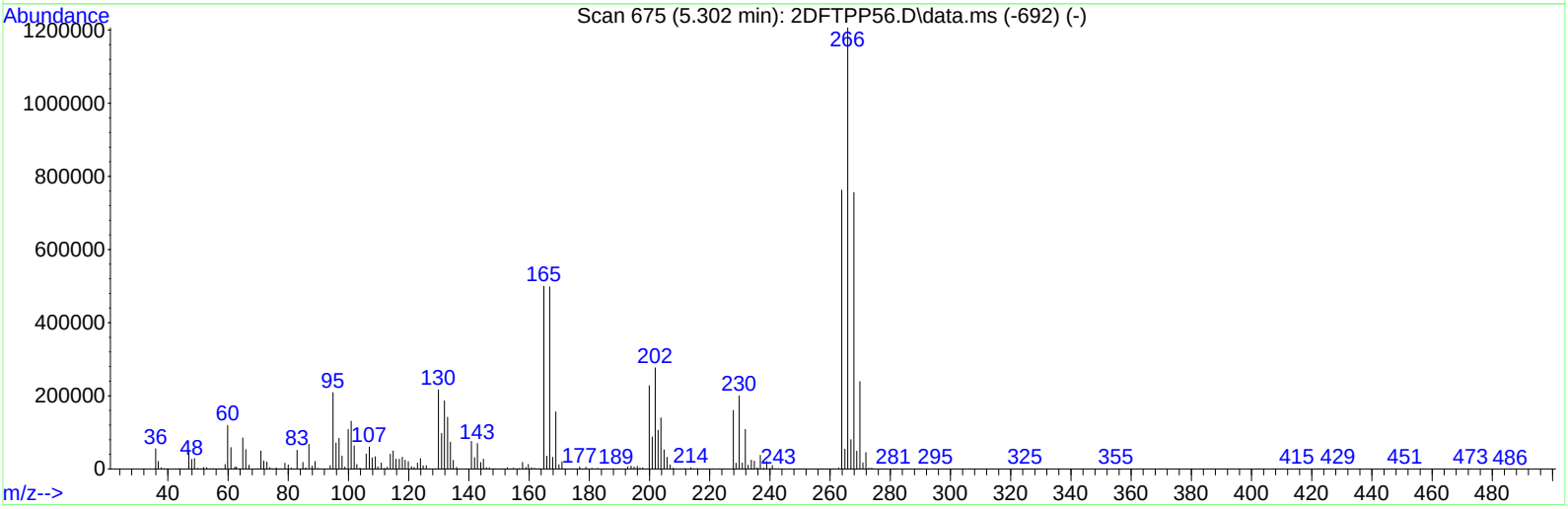
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	40.9	587674	PASS
68	69	0.00	2	1.5	5635	PASS
69	198	0.00	100	26.9	387032	PASS
70	69	0.00	2	0.3	1179	PASS
127	198	40	60	45.9	659633	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	1437184	PASS
199	198	5	9	6.7	95618	PASS
275	198	10	30	21.3	306517	PASS
365	198	1	100	1.7	24704	PASS
441	443	0.01	100	81.7	222250	PASS
442	198	40	100	99.5	1430186	PASS
443	442	17	23	19.0	272000	PASS

Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\2S120910\2DFTPP56.D Vial: 1
Acq On : 9 Dec 2010 12:47 Operator: RPN
Sample : DFTPP SVMS4646 Inst : SVMS2
Misc : SVMS2,25 ng DFTPP Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 16 09:58:24 2010

Quant Method : C:\INSTARCH\METHOD\2DFTPP.M
Quant Title : DFTPP TUNE Method
QLast Update : Wed Dec 15 09:53:07 2010
Response via : Initial Calibration
DataAcq Meth:2DFTPP.M





TIC: 2DFTPP56.D\data.ms

(1) Pentachlorophenol

5.302min (+0.029) 84.38 ng

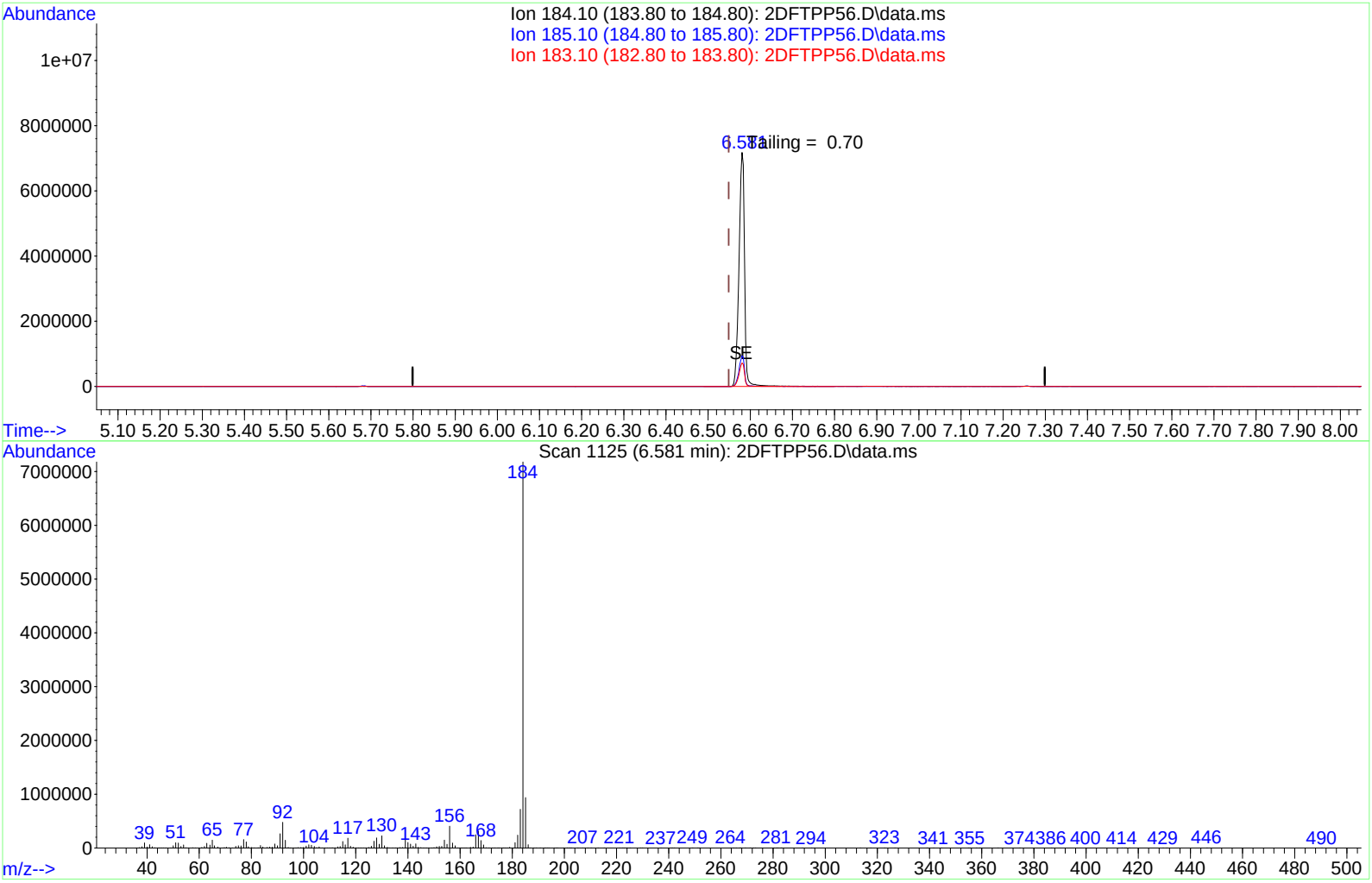
response 997268

Ion	Exp%	Act%
265.90	100	100
263.90	61.70	63.30
267.90	60.80	62.79
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\2S120910\2DFTPP56.D Vial: 1
Acq On : 9 Dec 2010 12:47 Operator: RPN
Sample : DFTPP SVMS4646 Inst : SVMS2
Misc : SVMS2,25 ng DFTPP Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 16 09:58:24 2010

Quant Method : C:\INSTARCH\METHOD\2DFTPP.M
Quant Title : DFTPP TUNE Method
QLast Update : Wed Dec 15 09:53:07 2010
Response via : Initial Calibration
DataAcq Meth:2DFTPP.M



TIC: 2DFTPP56.D\data.ms

(3) Benzidine

6.581min (+0.031) 109.52 ng

response 6561478

Ion	Exp%	Act%
184.10	100	100
185.10	14.10	13.35
183.10	10.30	10.08
0.00	0.00	0.00

Data File	: 2DFTPP56.D	Vial Number	: 1
Data File Path	: C:\INSTARCH\DATA\2S120910\	Operator	: RPN
Date Acquired	: 12/9/2010 12:47	Instrument Name:	SVMS2
Sample Name	: DFTPP SVMS4646	Sample Multiplier:	1
Misc Info	: SVMS2,25 ng DFTPP		

Quant Method	: C:\INSTARCH\METHOD\2DFTPP.M
Calibration Title	: DFTPP TUNE Method
Last Update	: Wed Dec 15 09:53:07 2010

Compound	R.T.	QIon	Response
1) Pentachlorophenol	5.30	266	997268
2) DFTPP	5.68	198	1154969
3) Benzidine	6.58	184	6561478
4) DDE	6.73	246	5341
5) DDD	7.03	235	101046
6) DDT	7.26	235	2933061

DDT %Degradation

$$\frac{DDD + DDE}{DDD + DDE + DDT} \times 100\% = 3.50\ \%$$

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S120910\2CCV53.D Vial: 2
Acq On : 9 Dec 2010 13:02 Operator: RPN
Sample : CCV 20ug/ml SVMS4688 Inst : SVMS2
Misc : Addl.Comp.,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 09 13:18:59 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 09 13:17:46 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	14Diclbenzd4	20.000	20.000	0.0	139	0.00
2	TM	Ntrsdimeth	20.000	22.338	-11.7	153	0.00
3	TM	Pyridine	20.000	22.217	-11.1	150	0.00
4	S	SURR2Flphenol	50.000	54.174	-8.3	148	0.00
5	TM	Aniline	20.000	21.551	-7.8	147	0.00
6	TM	bis2Clethletr	20.000	21.598	-8.0	148	0.00
7	S	SURRPhenol-d5	50.000	54.557	-9.1	151	0.00
8	CTM	Phenol	20.000	22.148	-10.7	150	0.00
9	TM	2-Cl-phenol	20.000	21.324	-6.6	149	0.00
10	TM	13Diclbenz	20.000	20.941	-4.7	145	0.00
11	CTM	14Diclbenz	20.000	20.948	-4.7	145	0.00
12	TM	12Diclbenz	20.000	20.821	-4.1	145	0.00
13	TM	Benzyl alcoho	20.000	21.774	-8.9	150	0.00
14	TM	bis2clispreth	20.000	20.956	-4.8	147	0.00
15	TM	2Methylphenol	20.000	22.220	-11.1	153	0.00
16	TM	Ntrspyrrol	20.000	22.092	-10.5	145	0.00
17	TM	Acetophenone	20.000	20.893	-4.5	144	0.00
18	TM	Hexaclethane	20.000	20.995	-5.0	143	0.00
19	PTM	N-Ntrsdinprop	20.000	20.682	-3.4	143	0.00
20	TM	3&4Methylphenol	20.000	21.976	-9.9	149	0.00
21	I	Naphthalened8	20.000	20.000	0.0	140	0.00
22	S	SURRNitrbenzened5	100.000	105.230	-5.2	144	0.00
23	TM	Nitrobenzene	20.000	20.778	-3.9	141	0.00
24	TM	Isophorone	20.000	20.996	-5.0	145	0.00
25	CTM	2-Nitrophenol	20.000	20.847	-4.2	141	0.00
26	TM	24Dimthpheno	20.000	19.922	0.4	136	0.00
27	TM	bis2clethoxym	20.000	20.973	-4.9	147	0.00
28	CTM	24Diclphenol	20.000	21.714	-8.6	147	0.00
29	TM	124Triclbenz	20.000	20.619	-3.1	143	0.00
30	TM	Benzoic acid	20.000	19.626	1.9	140	0.00
31	TM	Naphthalene	20.000	21.339	-6.7	148	0.00
32	TM	4-Cl-aniline	20.000	21.189	-5.9	145	0.00
33	TM	26Diclphenol	20.000	21.436	-7.2	143	0.00
34	TM	Hexaclprop	20.000	20.451	-2.3	136	0.00
35	CTM	Hexaclbutdien	20.000	19.992	0.0	139	0.00
36	CTM	4Cl3methylphe	20.000	20.826	-4.1	139	0.00
37	TM	2Methylnaphth	20.000	20.876	-4.4	143	0.00
38	TM	1Methylnaphth	20.000	20.850	-4.3	143	0.00
39	I	Acenaphthened10	20.000	20.000	0.0	136	0.00
40	PTM	Hxclcycpentdi	20.000	19.233	3.8	131	0.00
41	TM	1245Tetrclbenz	20.000	20.899	-4.5	142	0.00
42	CTM	246Triclpheno	20.000	21.702	-8.5	143	0.00
43	TM	245Triclpheno	20.000	21.969	-9.8	145	0.00
44	S	SURR2Flbiphenyl	100.000	104.542	-4.5	140	0.00
45	TM	2Clnaphthalen	20.000	21.209	-6.0	141	0.00
46	TM	2Nitroaniline	20.000	21.990	-9.9	144	0.00
47	TM	Acnaphthylene	20.000	21.264	-6.3	143	0.00
48	TM	Dimethylphtha	20.000	20.998	-5.0	140	0.00
49	TM	26Dinitrotolu	20.000	20.898	-4.5	138	0.00
50	CTM	Acenaphthene	20.000	21.159	-5.8	143	0.00
51	TM	3Nitroaniline	20.000	21.736	-8.7	147	0.00

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S120910\2CCV53.D Vial: 2
Acq On : 9 Dec 2010 13:02 Operator: RPN
Sample : CCV 20ug/ml SVMS4688 Inst : SVMS2
Misc : Addl.Comp.,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 09 13:18:59 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 09 13:17:46 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	PTM	24Dinitphenol	20.000	20.390	-2.0	143	0.00
53	TM	Dibenzofuran	20.000	21.024	-5.1	141	0.00
54	TM	24Dinitrotolu	20.000	21.816	-9.1	140	0.00
55	PTM	4-Nitrophenol	20.000	20.332	-1.7	140	0.00
56	TM	2,3,5,6-Tetrachlorop	20.000	21.421	-7.1	143	0.00
57	TM	2,3,4,6-Tetrachlorop	20.000	20.664	-3.3	142	0.00
58	TM	Fluorene	20.000	20.154	-0.8	138	0.00
59	TM	4Clphlphlethr	20.000	20.259	-1.3	137	0.00
60	TM	Diethylphthal	20.000	20.658	-3.3	139	0.00
61	TM	4Nitroaniline	20.000	21.682	-8.4	146	0.00
62	S	SURR246Tribrphenl	50.000	54.237	-8.5	139	0.00
63	I	Phenanthrd10	20.000	20.000	0.0	133	0.00
64	TM	46Dinit2mylph	20.000	21.395	-7.0	139	0.00
65	CTM	Ntrsdiphlam&Diphlam	40.000	42.066	-5.2	140	0.00
66	TM	Azobenz&12Diphlhyd	40.000	42.234	-5.6	139	0.00
67	TM	4Brphlphlethr	20.000	21.574	-7.9	143	0.00
68	TM	Hexaclbenzene	20.000	20.968	-4.8	140	0.00
69	CTM	Pentaclphenol	20.000	21.619	-8.1	151	0.00
70	TM	Phenanthrene	20.000	20.915	-4.6	141	0.00
71	TM	Anthracene	20.000	20.998	-5.0	141	0.00
72	TM	Carbazole	20.000	20.459	-2.3	138	0.00
73	TM	Dinbtylphthal	20.000	21.953	-9.8	142	0.00
74	CTM	Fluoranthene	20.000	21.035	-5.2	138	0.00
75	I	Chrysene-d12	20.000	20.000	0.0	128	0.00
76	TM	Benzidine	20.000	21.161	-5.8	145	0.00
77	TM	Pyrene	20.000	21.804	-9.0	141	0.00
78	S	SURRTerphenyl-d14	100.000	107.364	-7.4	138	0.00
79	TM	Btylbzylphth	20.000	22.186	-10.9	140	0.00
80	TM	33Diclbnzidin	20.000	23.826	-19.1	157	0.00
81	TM	B[a]anthracen	20.000	20.997	-5.0	135	0.00
82	TM	Chrysene	20.000	21.445	-7.2	136	0.00
83	TM	bis2Ethlhxlph	20.000	22.074	-10.4	138	0.00
84	CTM	Dinoctylphthl	20.000	22.311	-11.6	140	0.00
85	I	Perylene-d12	20.000	20.000	0.0	128	0.00
86	TM	B[b]fluoranth	20.000	22.052	-10.3	140	0.00
87	TM	B[k]fluoranth	20.000	20.560	-2.8	131	0.00
88	CTM	Benz[a]pyrene	20.000	21.505	-7.5	135	0.00
89	TM	Indeno-pyrene	20.000	21.236	-6.2	133	0.00
90	TM	Dib[ah]anthr	20.000	21.375	-6.9	134	0.00
91	TM	B[ghi]perylen	20.000	21.524	-7.6	135	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S120910\2CCV53.D Vial: 2
Acq On : 9 Dec 2010 13:02 Operator: RPN
Sample : CCV 20ug/ml SVMS4688 Inst : SVMS2
Misc : Addl.Comp.,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 09 13:18:59 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 09 13:17:46 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	14Diclbenzd4	1.000	1.000	0.0	139	0.00
2	TM	Ntrsdimeth	0.710	0.793	-11.7	153	0.00
3	TM	Pyridine	1.262	1.402	-11.1	150	0.00
4	S	SURR2Flphenol	0.498	0.539	-8.2	148	0.00
5	TM	Aniline	1.928	2.077	-7.7	147	0.00
6	TM	bis2Clethletr	1.197	1.292	-7.9	148	0.00
7	S	SURRPhenol-d5	0.598	0.653	-9.2	151	0.00
8	CTM	Phenol	1.474	1.632	-10.7	150	0.00
9	TM	2-Cl-phenol	1.343	1.432	-6.6	149	0.00
10	TM	13Diclbenz	1.551	1.624	-4.7	145	0.00
11	CTM	14Diclbenz	1.576	1.651	-4.8	145	0.00
12	TM	12Diclbenz	1.495	1.557	-4.1	145	0.00
13	TM	Benzyl alcoho	0.604	0.761	-26.0#	150	0.00
14	TM	bis2clispreth	2.279	2.388	-4.8	147	0.00
15	TM	2Methylphenol	1.127	1.252	-11.1	153	0.00
16	TM	Ntrspyrrol	0.596	0.658	-10.4	145	0.00
17	TM	Acetophenone	1.682	1.757	-4.5	144	0.00
18	TM	Hexaclethane	0.526	0.552	-4.9	143	0.00
19	PTM	N-Ntrsdinprop	0.753	0.779	-3.5	143	0.00
20	TM	3&4Methylphenol	1.124	1.235	-9.9	149	0.00
21	I	Naphthalened8	1.000	1.000	0.0	140	0.00
22	S	SURRNitrbenzened5	0.048	0.051	-6.2	144	0.00
23	TM	Nitrobenzene	0.247	0.256	-3.6	141	0.00
24	TM	Isophorone	0.544	0.571	-5.0	145	0.00
25	CTM	2-Nitrophenol	0.184	0.192	-4.3	141	0.00
26	TM	24Dimthpheno	0.279	0.278	0.4	136	0.00
27	TM	bis2clethoxym	0.375	0.393	-4.8	147	0.00
28	CTM	24Diclphenol	0.261	0.283	-8.4	147	0.00
29	TM	124Triclbenz	0.323	0.333	-3.1	143	0.00
30	TM	Benzoic acid	0.175	0.183	-4.6	140	0.00
31	TM	Naphthalene	1.021	1.089	-6.7	148	0.00
32	TM	4-Cl-aniline	0.383	0.406	-6.0	145	0.00
33	TM	26Diclphenol	0.236	0.253	-7.2	143	0.00
34	TM	Hexaclprop	0.166	0.170	-2.4	136	0.00
35	CTM	Hexaclbutdien	0.152	0.152	0.0	139	0.00
36	CTM	4Cl3methylphe	0.250	0.260	-4.0	139	0.00
37	TM	2Methylnaphth	0.570	0.595	-4.4	143	0.00
38	TM	1Methylnaphth	0.591	0.617	-4.4	143	0.00
39	I	Acenaphthened10	1.000	1.000	0.0	136	0.00
40	PTM	Hxclcycpentdi	0.310	0.320	-3.2	131	0.00
41	TM	1245Tetrclbenz	0.533	0.557	-4.5	142	0.00
42	CTM	246Triclpheno	0.351	0.381	-8.5	143	0.00
43	TM	245Triclpheno	0.373	0.409	-9.7	145	0.00
44	S	SURR2Flbiphenyl	0.262	0.274	-4.6	140	0.00
45	TM	2Clnaphthalen	1.155	1.225	-6.1	141	0.00
46	TM	2Nitroaniline	0.270	0.297	-10.0	144	0.00
47	TM	Acnaphthylene	1.979	2.105	-6.4	143	0.00
48	TM	Dimethylphtha	1.358	1.425	-4.9	140	0.00
49	TM	26Dinitrotolu	0.294	0.307	-4.4	138	0.00
50	CTM	Acenaphthene	1.244	1.317	-5.9	143	0.00
51	TM	3Nitroaniline	0.314	0.342	-8.9	147	0.00

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S120910\2CCV53.D Vial: 2
Acq On : 9 Dec 2010 13:02 Operator: RPN
Sample : CCV 20ug/ml SVMS4688 Inst : SVMS2
Misc : Addl.Comp.,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 09 13:18:59 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 09 13:17:46 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
52	PTM	24Dinitphenol	0.164	0.178	-8.5	143	0.00
53	TM	Dibenzofuran	1.619	1.702	-5.1	141	0.00
54	TM	24Dinitrotolu	0.364	0.397	-9.1	140	0.00
55	PTM	4-Nitrophenol	0.101	0.102	-1.0	140	0.00
56	TM	2,3,5,6-Tetrachlorop	0.262	0.304	-16.0	143	0.00
57	TM	2,3,4,6-Tetrachlorop	0.277	0.307	-10.8	142	0.00
58	TM	Fluorene	1.306	1.316	-0.8	138	0.00
59	TM	4Clphlphlethr	0.581	0.588	-1.2	137	0.00
60	TM	Diethylphthal	1.370	1.416	-3.4	139	0.00
61	TM	4Nitroaniline	0.308	0.334	-8.4	146	0.00
62	S	SURR246Tribrphenl	0.060	0.066	-10.0	139	0.00
63	I	Phenanthrd10	1.000	1.000	0.0	133	0.00
64	TM	46Dinit2mylph	0.145	0.155	-6.9	139	0.00
65	CTM	Ntrsdiphlam&Diphlam	0.594	0.625	-5.2	140	0.00
66	TM	Azobenz&12Diphlhyd	0.224	0.237	-5.8	139	0.00
67	TM	4Brphlphlethr	0.217	0.234	-7.8	143	0.00
68	TM	Hexaclbenzene	0.225	0.236	-4.9	140	0.00
69	CTM	Pentaclphenol	0.107	0.123	-15.0	151	0.00
70	TM	Phenanthrene	1.060	1.109	-4.6	141	0.00
71	TM	Anthracene	1.075	1.129	-5.0	141	0.00
72	TM	Carbazole	0.911	0.932	-2.3	138	0.00
73	TM	Dinbtylphthal	1.230	1.350	-9.8	142	0.00
74	CTM	Fluoranthene	1.070	1.126	-5.2	138	0.00
75	I	Chrysene-d12	1.000	1.000	0.0	128	0.00
76	TM	Benzidine	0.336	0.320	4.8	145	0.00
77	TM	Pyrene	1.193	1.300	-9.0	141	0.00
78	S	SURRTerphenyl-d14	0.145	0.156	-7.6	138	0.00
79	TM	Btylbzylphth	0.580	0.643	-10.9	140	0.00
80	TM	33Diclbnzidin	0.255	0.277	-8.6	157	0.00
81	TM	B[a]anthracen	1.112	1.168	-5.0	135	0.00
82	TM	Chrysene	1.066	1.143	-7.2	136	0.00
83	TM	bis2Ethlhxlph	0.843	0.930	-10.3	138	0.00
84	CTM	Dinoctylphthl	1.498	1.671	-11.5	140	0.00
85	I	Perylene-d12	1.000	1.000	0.0	128	0.00
86	TM	B[b]fluoranth	1.178	1.299	-10.3	140	0.00
87	TM	B[k]fluoranth	1.113	1.144	-2.8	131	0.00
88	CTM	Benz[a]pyrene	1.075	1.156	-7.5	135	0.00
89	TM	Indeno-pyrene	1.092	1.159	-6.1	133	0.00
90	TM	Dib[ah]anthr	0.886	0.947	-6.9	134	0.00
91	TM	B[ghi]perylen	0.907	0.976	-7.6	135	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120910\2CCV53.D Vial: 2
Acq On : 9 Dec 2010 13:02 Operator: RPN
Sample : CCV 20ug/ml SVMS4688 Inst : SVMS2
Misc : Addl.Comp.,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 09 13:18:59 2010

RPN 12/09/10

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 09 13:17:46 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.377	152	668971	20.00	ug/mL	0.00
21) Naphthalened8	6.031	136	3090092	20.00	ug/mL	0.00
39) Acenaphthened10	7.548	164	1590707	20.00	ug/mL	0.00
63) Phenanthrd10	8.443	188	2288032	20.00	ug/mL	0.00
75) Chrysene-d12	9.912	240	2048260	20.00	ug/mL	0.00
85) Perylene-d12	10.867	264	1815618	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	3.118	112	902196	54.17	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery = 54.17%			
7) SURRPhenol-d5	3.948	99	1091399	54.56	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 54.56%			
22) SURRNitrbenzened5	5.073	82	784693	105.23	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 105.23%			
44) SURR2Flbiphenyl	7.059	172	2175793	104.54	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 104.54%			
62) SURR246Tribrphenl	8.065	330	260861	54.24	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 54.24%			
78) SURRTerphenyl-d14	9.253	244	1597336	107.36	ug/mL	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 107.36%			
Target Compounds						Qvalue
2) Ntrsdimeth	2.328	74	530617	22.3380	ug/mL	79
3) Pyridine	2.351	79	937608	22.2174	ug/mL	91
5) Aniline	4.011	93	1389732	21.5511	ug/mL	89
6) bis2Clethletr	4.079	93	864511	21.5985	ug/mL	100
8) Phenol	3.965	94	1092086	22.1483	ug/mL	81
9) 2-Cl-phenol	4.133	128	957667	21.3239	ug/mL	97
10) 13Diclbenz	4.309	146	1086337	20.9411	ug/mL	98
11) 14Diclbenz	4.397	146	1104159	20.9480	ug/mL	97
12) 12Diclbenz	4.573	146	1041280	20.8212	ug/mL	93
13) Benzyl alcoho	4.542	108	508806	21.7742	ug/mL#	75
14) bis2clispreth	4.718	45	1597584	20.9556	ug/mL	90
15) 2Methylphenol	4.673	108	837803	22.2203	ug/mL	96
16) Ntrspyrrol	4.860	100	440259	22.0922	ug/mL	82
17) Acetophenone	4.880	105	1175489	20.8933	ug/mL	83
18) Hexaclethane	4.997	117	369160	20.9955	ug/mL	99
19) N-Ntrsdinprop	4.889	70	520816	20.6822	ug/mL	96
20) 3&4Methylphenol	4.883	108	826359	21.9758	ug/mL	95
23) Nitrobenzene	5.102	77	791512	20.7776	ug/mL	84
24) Isophorone	5.463	82	1765431	20.9958	ug/mL	93
25) 2-Nitrophenol	5.559	139	593788	20.8467	ug/mL	78
26) 24Dimthpheno	5.642	107	859903	19.9222	ug/mL	86
27) bis2clethoxym	5.775	93	1215835	20.9728	ug/mL	88
28) 24Diclphenol	5.875	162	875170	21.7145	ug/mL	95
29) 124Triclbenz	5.971	180	1028906	20.6190	ug/mL	99
30) Benzoic acid	5.786	105	566948	19.6256	ug/mL	87
31) Naphthalene	6.056	128	3365197	21.3386	ug/mL	100
32) 4-Cl-aniline	6.133	127	1253452	21.1885	ug/mL	93
33) 26Diclphenol	6.136	162	782297	21.4365	ug/mL	94
34) Hexaclprop	6.153	213	524817	20.4510	ug/mL	98
35) Hexaclbutdien	6.198	225	469055	19.9922	ug/mL	98
36) 4Cl3methylphe	6.633	107	802832	20.8261	ug/mL	86
37) 2Methylnaphth	6.747	141	1837726	20.8758	ug/mL	98
38) 1Methylnaphth	6.832	141	1905061	20.8504	ug/mL	99
40) Hxclcycpentdi	6.880	237	508851	19.2329	ug/mL	98

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120910\2CCV53.D Vial: 2
Acq On : 9 Dec 2010 13:02 Operator: RPN
Sample : CCV 20ug/ml SVMS4688 Inst : SVMS2
Misc : Addl.Comp.,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 09 13:18:59 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 09 13:17:46 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

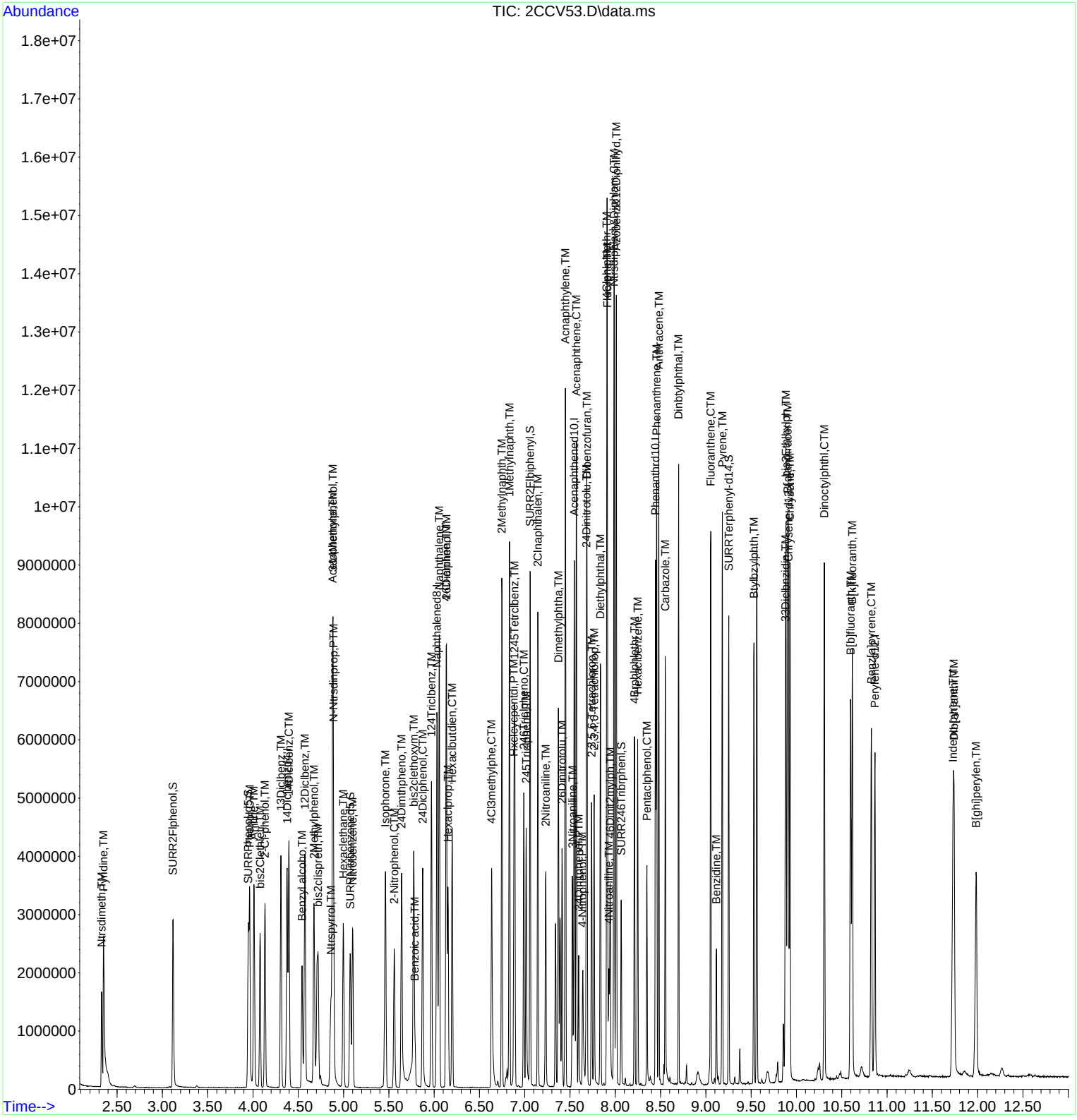
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	6.889	216	885462	20.8989 ug/mL	97
42) 246Triclpheno	6.991	196	605647	21.7015 ug/mL	90
43) 245Triclpheno	7.017	196	651203	21.9690 ug/mL	97
45) 2Clnaphthalen	7.145	162	1948865	21.2086 ug/mL	97
46) 2Nitroaniline	7.233	65	471824	21.9899 ug/mL#	63
47) Acnaphthylene	7.449	152	3347652	21.2643 ug/mL	97
48) Dimethylphtha	7.372	163	2267435	20.9976 ug/mL	99
49) 26Dinitrotolu	7.412	165	488135	20.8983 ug/mL	85
50) Acenaphthene	7.571	153	2094265	21.1590 ug/mL	100
51) 3Nitroaniline	7.528	138	543380	21.7359 ug/mL	83
52) 24Dinitphenol	7.596	184	282792	20.3903 ug/mL#	70
53) Dibenzofuran	7.687	168	2707556	21.0239 ug/mL	93
54) 24Dinitrotolu	7.682	165	630795	21.8158 ug/mL	82
55) 4-Nitrophenol	7.639	109	162884	20.3320 ug/mL	78
56) 2,3,5,6-Tetrachlorop	7.739	232	483552	21.4208 ug/mL	93
57) 2,3,4,6-Tetrachlorop	7.767	232	488923	20.6642 ug/mL	97
58) Fluorene	7.912	166	2092909	20.1544 ug/mL	99
59) 4Clphlphlethr	7.906	204	935818	20.2595 ug/mL	99
60) Diethylphthal	7.835	149	2251684	20.6584 ug/mL	99
61) 4Nitroaniline	7.929	138	531954	21.6821 ug/mL#	72
64) 46Dinit2mylph	7.943	198	354720	21.3947 ug/mL	93
65) Ntrsdiphlam&Diphlam	7.986	169	2858844	42.0662 ug/mL	99
66) Azobenz&12Diphlhyd	8.011	182	1084338	42.2342 ug/mL#	74
67) 4Brphlphlethr	8.213	248	535649	21.5739 ug/mL	87
68) Hexaclbenzene	8.247	284	539997	20.9678 ug/mL	95
69) Pentaclphenol	8.349	266	280351	21.6189 ug/mL	97
70) Phenanthrene	8.457	178	2537432	20.9150 ug/mL	99
71) Anthracene	8.480	178	2582766	20.9981 ug/mL	97
72) Carbazole	8.551	167	2131833	20.4590 ug/mL	99
73) Dinbtylphthal	8.699	149	3088529	21.9529 ug/mL	99
74) Fluoranthene	9.054	202	2575275	21.0351 ug/mL	96
76) Benzidine	9.117	184	655310	21.1607 ug/mL	99
77) Pyrene	9.182	202	2663264	21.8041 ug/mL	94
79) Btylbzylphth	9.531	149	1317622	22.1858 ug/mL	87
80) 33Diclbnzidin	9.878	252	567998	23.8263 ug/mL	100
81) B[a]anthracen	9.904	228	2391835	20.9972 ug/mL	99
82) Chrysene	9.929	228	2340562	21.4452 ug/mL	99
83) bis2Ethlhxlph	9.884	149	1905357	22.0740 ug/mL	99
84) Dinoctylphthl	10.307	149	3421891	22.3115 ug/mL	99
86) B[b]fluoranth	10.597	252	2358328	22.0515 ug/mL	100
87) B[k]fluoranth	10.617	252	2076969	20.5601 ug/mL	99
88) Benz[a]pyrene	10.827	252	2099109	21.5046 ug/mL	97
89) Indeno-pyrene	11.728	276	2104770	21.2357 ug/mL	94
90) Dib[ah]anthr	11.739	278	1718915	21.3746 ug/mL	98
91) B[ghi]perylen	11.984	276	1772044	21.5244 ug/mL	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120910\2CCV53.D Vial: 2
Acq On : 9 Dec 2010 13:02 Operator: RPN
Sample : CCV 20ug/ml SVMS4688 Inst : SVMS2
Misc : Addl.Comp.,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 09 13:18:59 2010

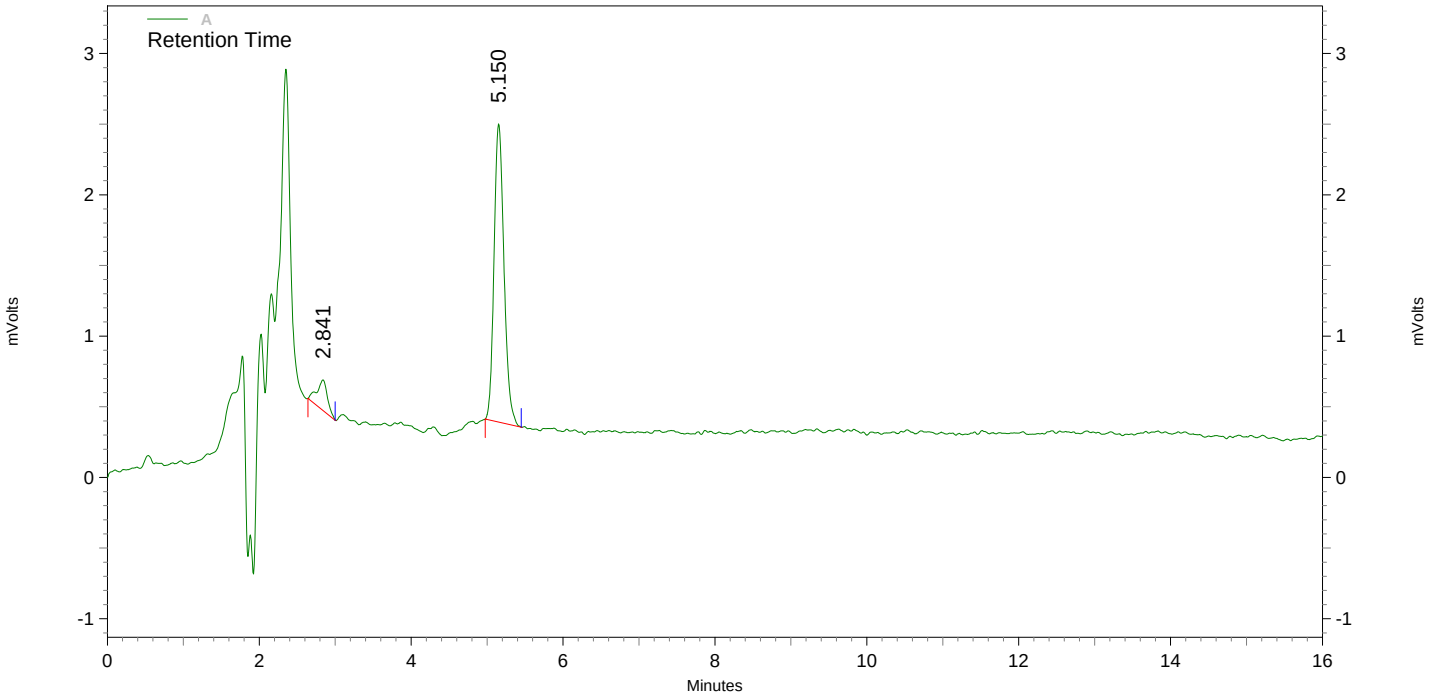
Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 09 13:17:46 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

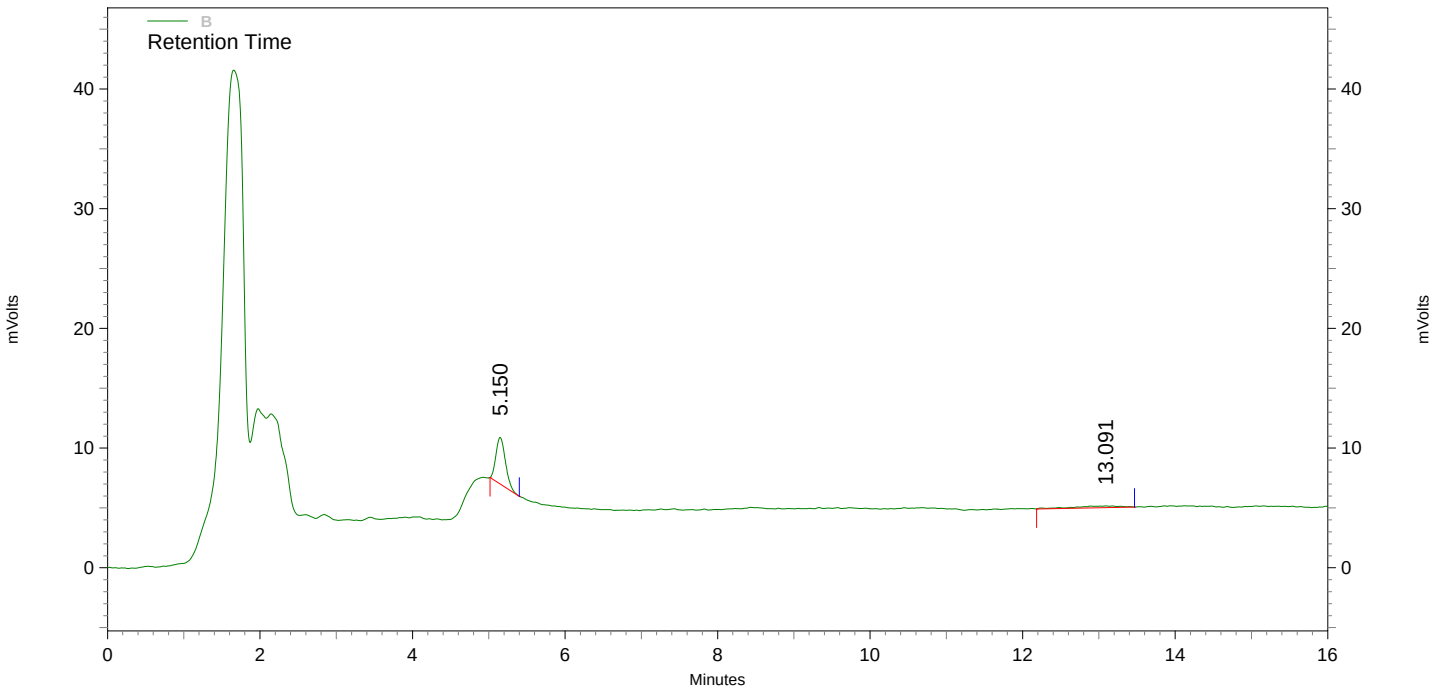


SEMI - VOLATILE ORGANIC ANALYSIS
QUALITY CONTROL
DOCUMENTS

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\8330A_B\121310exp-primary\003.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\121310exp-primary.met
Sample ID: 72413,875951,,mbs
Acquired: Dec 14, 2010 09:58:00
Data Summary: {Data Description}





A Results

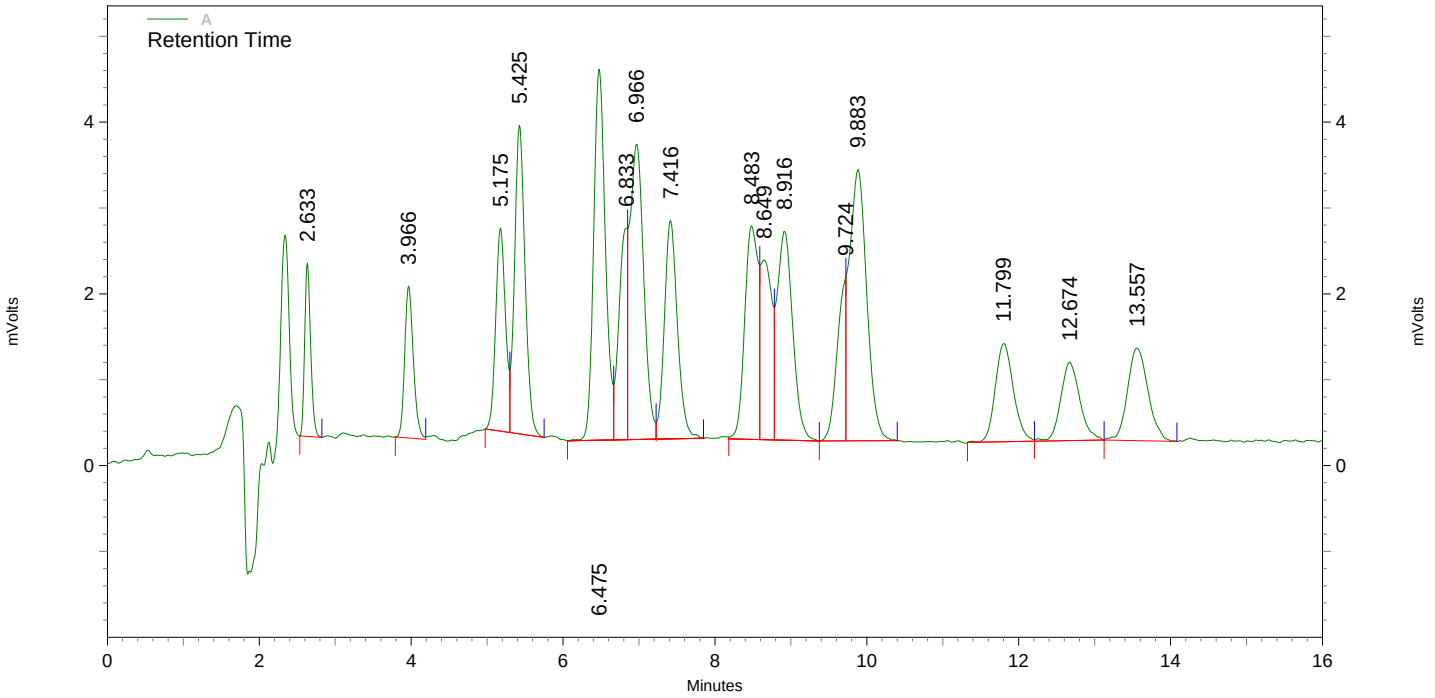
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX			**0.000 BDL**
RDX			**0.000 BDL**
12-DNB (SSTD)	5.150	19168	**106.256**
135-TNB			**0.000 BDL**
13-DNB			**0.000 BDL**
TETRYL			**0.000 BDL**
35-DNA			**0.000 BDL**
NB			**0.000 BDL**
246-TNT			**0.000 BDL**
4-AM-26-DNT			**0.000 BDL**
2-AM-46-DNT			**0.000 BDL**
2-NT			**0.000 BDL**
4-NT			**0.000 BDL**
3-NT			**0.000 BDL**

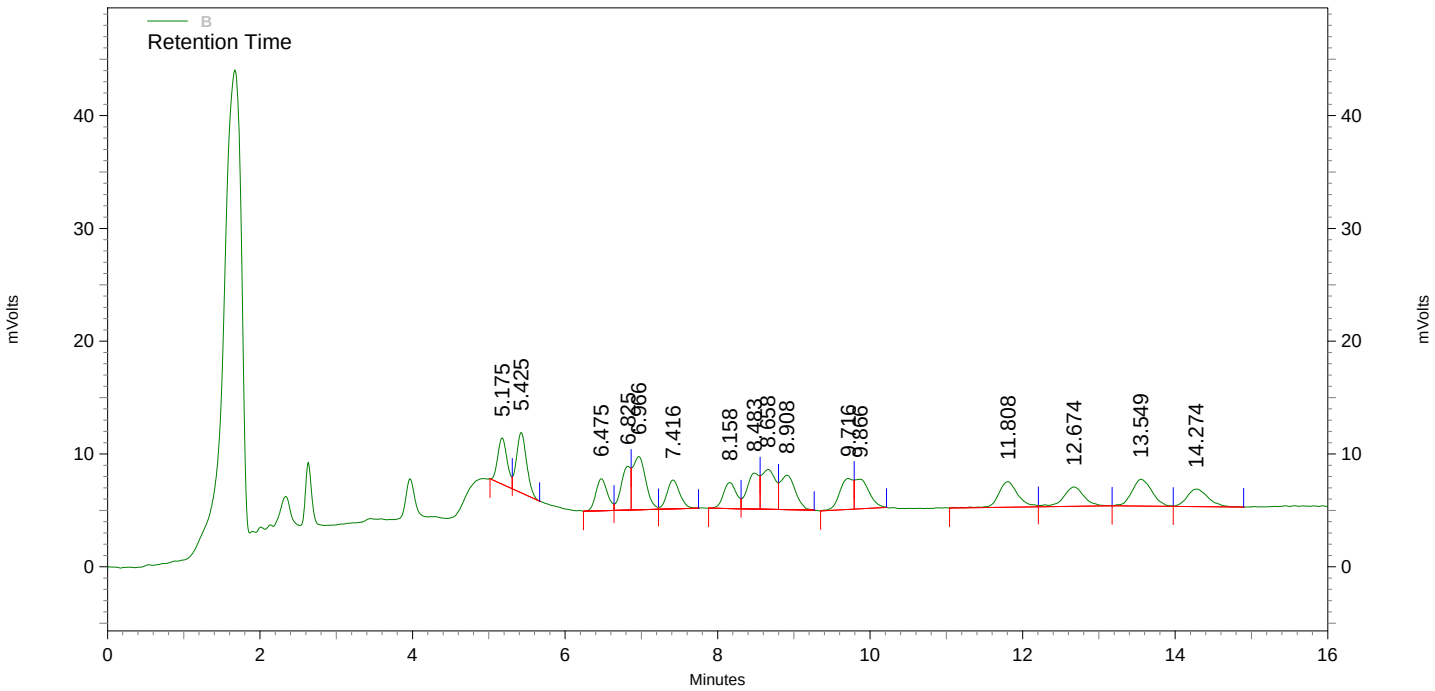
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG			**0.000 BDL**
26-DNT			**0.000 BDL**
24-DNT			**0.000 BDL**
PETN			**0.000 BDL**

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\8330A_B\121310exp-primary\004.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\121310exp-primary.met
Sample ID: 72413,875952,,lcss
Acquired: Dec 14, 2010 10:21:12
Data Summary: {Data Description}





A Results

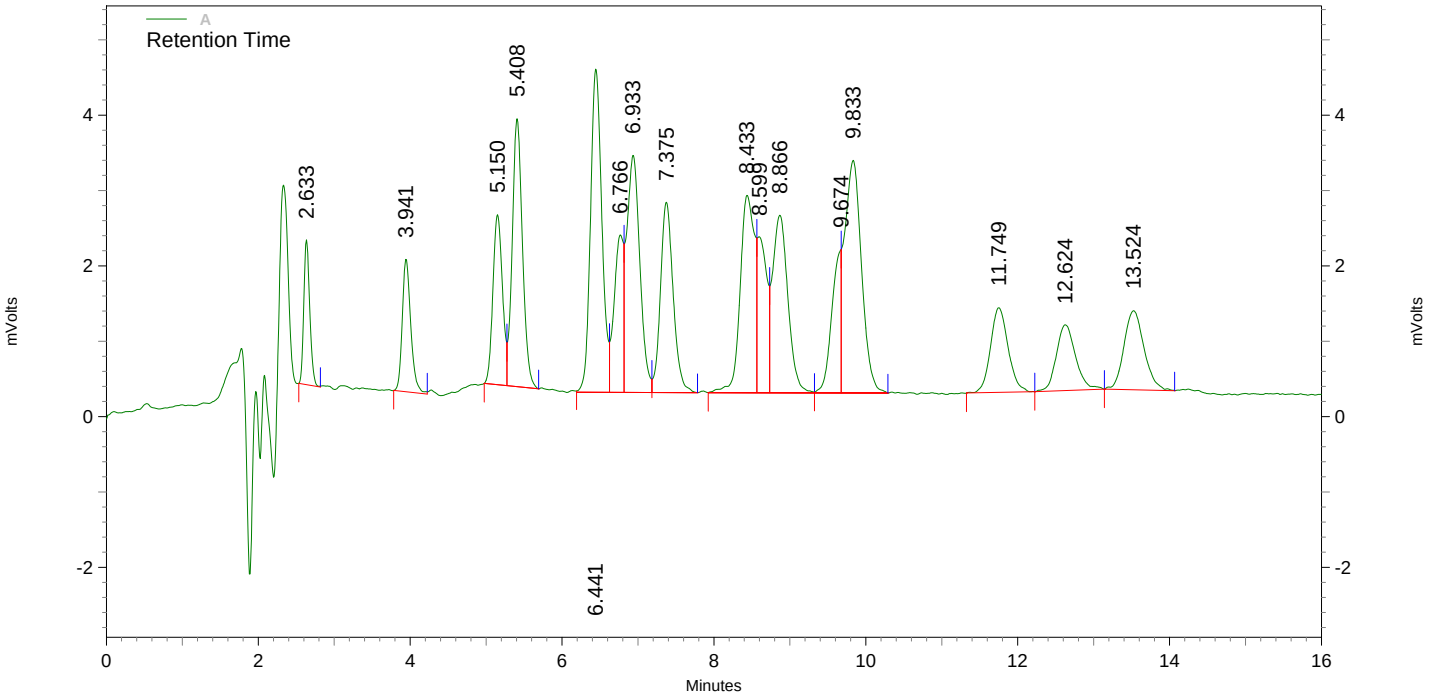
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX	2.633	11160	**0.485**
RDX	3.966	14069	**0.471**
12-DNB (SSTD)	5.175	21233	**118.043**
135-TNB	5.425	34603	**0.514**
13-DNB	6.475	46603	**0.537**
TETRYL	6.833	18891	**0.428**
35-DNA	6.966	43933	**0.570**
NB	7.416	30584	**0.541**
246-TNT	8.483	30377	**0.465**
4-AM-26-DNT	8.649	21914	**0.535**
2-AM-46-DNT	8.916	34679	**0.517**
2-NT	11.799	19051	**0.527**
4-NT	12.674	16007	**0.525**
3-NT	13.557	20294	**0.531**

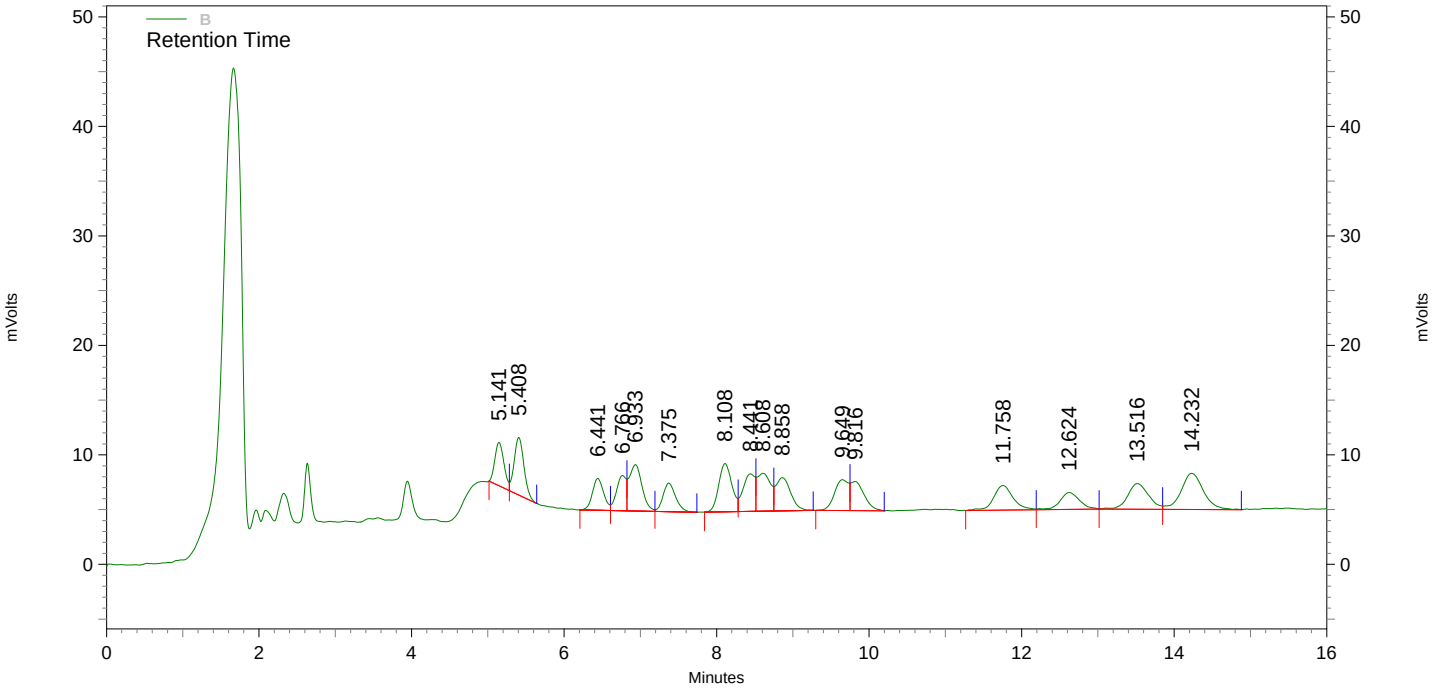
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG	8.158	27427	**0.977**
26-DNT	9.716	33601	**0.496**
24-DNT	9.866	33957	**0.558**
PETN	14.274	29843	**0.938**

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\8330A_B\121310exp-primary\006.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\121310exp-primary.met
Sample ID: 72413,875953,,mss
Acquired: Dec 14, 2010 11:07:34
Data Summary: {Data Description}





A Results

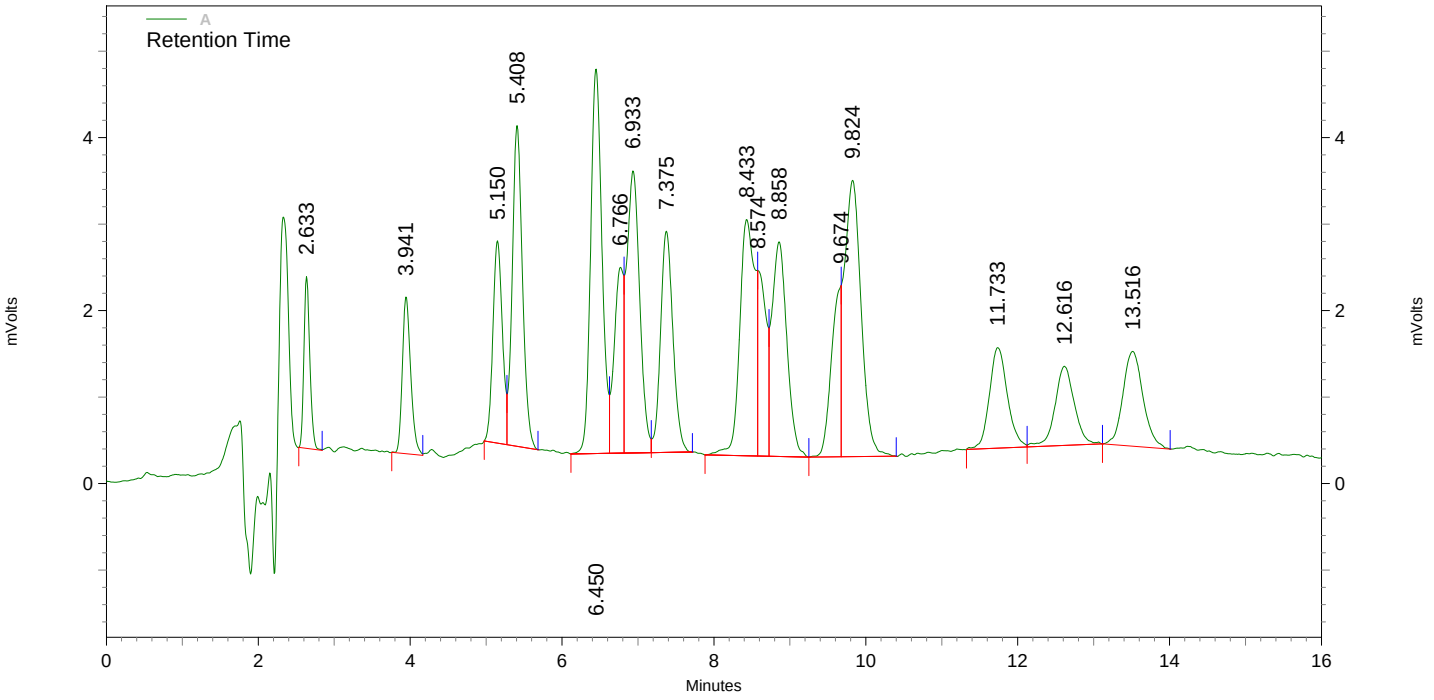
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX	2.633	10530	**0.458**
RDX	3.941	13775	**0.461**
12-DNB (SSTD)	5.150	19701	**109.298**
135-TNB	5.408	33383	**0.496**
13-DNB	6.441	44645	**0.514**
TETRYL	6.766	17818	**0.402**
35-DNA	6.933	37985	**0.493**
NB	7.375	29422	**0.520**
246-TNT	8.433	34794	**0.534**
4-AM-26-DNT	8.599	18151	**0.438**
2-AM-46-DNT	8.866	33116	**0.492**
2-NT	11.749	18104	**0.500**
4-NT	12.624	15336	**0.502**
3-NT	13.524	19324	**0.504**

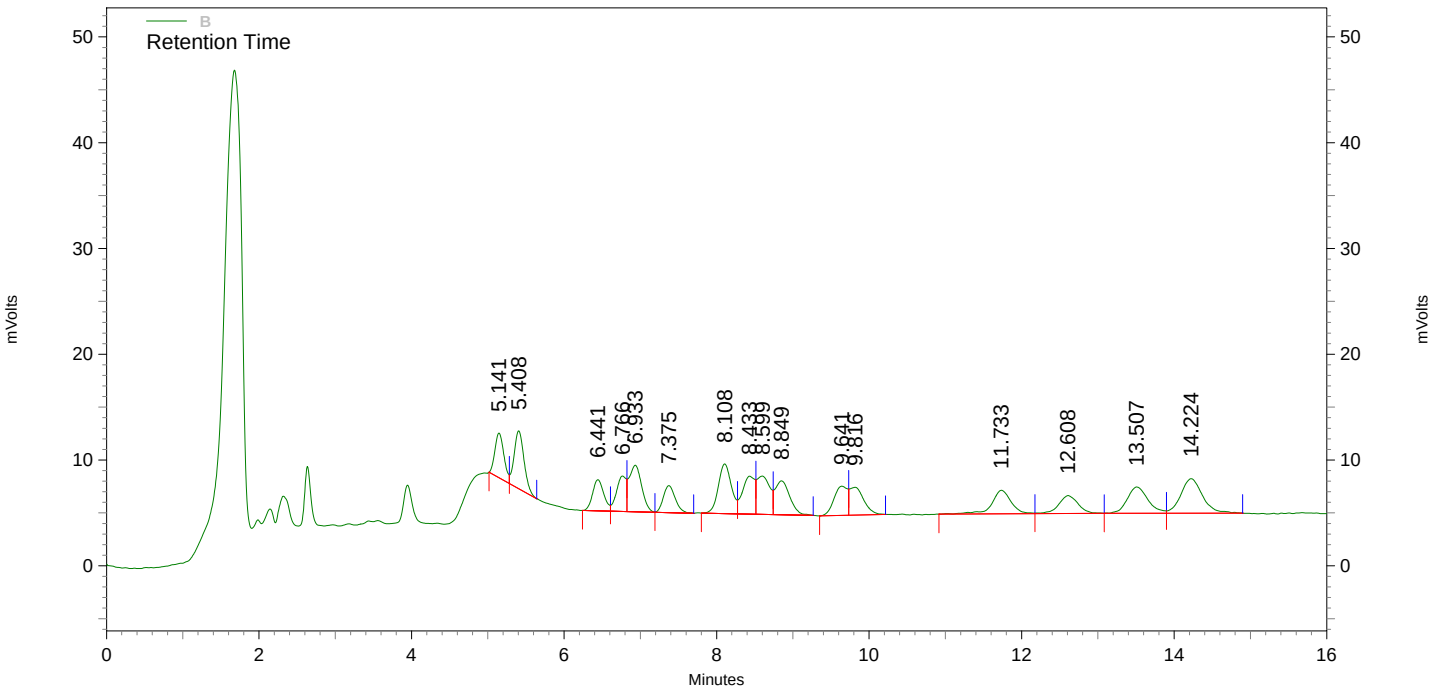
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG	8.108	53184	**1.981**
26-DNT	9.649	36185	**0.535**
24-DNT	9.816	32646	**0.536**
PETN	14.232	67543	**2.255**

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\8330A_B\121310exp-primary\007.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\121310exp-primary.met
Sample ID: 72413,875954,,msds
Acquired: Dec 14, 2010 11:30:45
Data Summary: {Data Description}





A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX	2.633	10855	**0.472**
RDX	3.941	13935	**0.466**
12-DNB (SSTD)	5.150	20217	**112.243**
135-TNB	5.408	34725	**0.516**
13-DNB	6.450	46109	**0.531**
TETRYL	6.766	18236	**0.412**
35-DNA	6.933	38955	**0.506**
NB	7.375	29206	**0.516**
246-TNT	8.433	38104	**0.586**
4-AM-26-DNT	8.574	16653	**0.399**
2-AM-46-DNT	8.858	33982	**0.506**
2-NT	11.733	19182	**0.531**
4-NT	12.616	16267	**0.534**
3-NT	13.516	20160	**0.527**

B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG	8.108	56174	**2.098**
26-DNT	9.641	33969	**0.501**
24-DNT	9.816	34047	**0.560**
PETN	14.224	64819	**2.160**

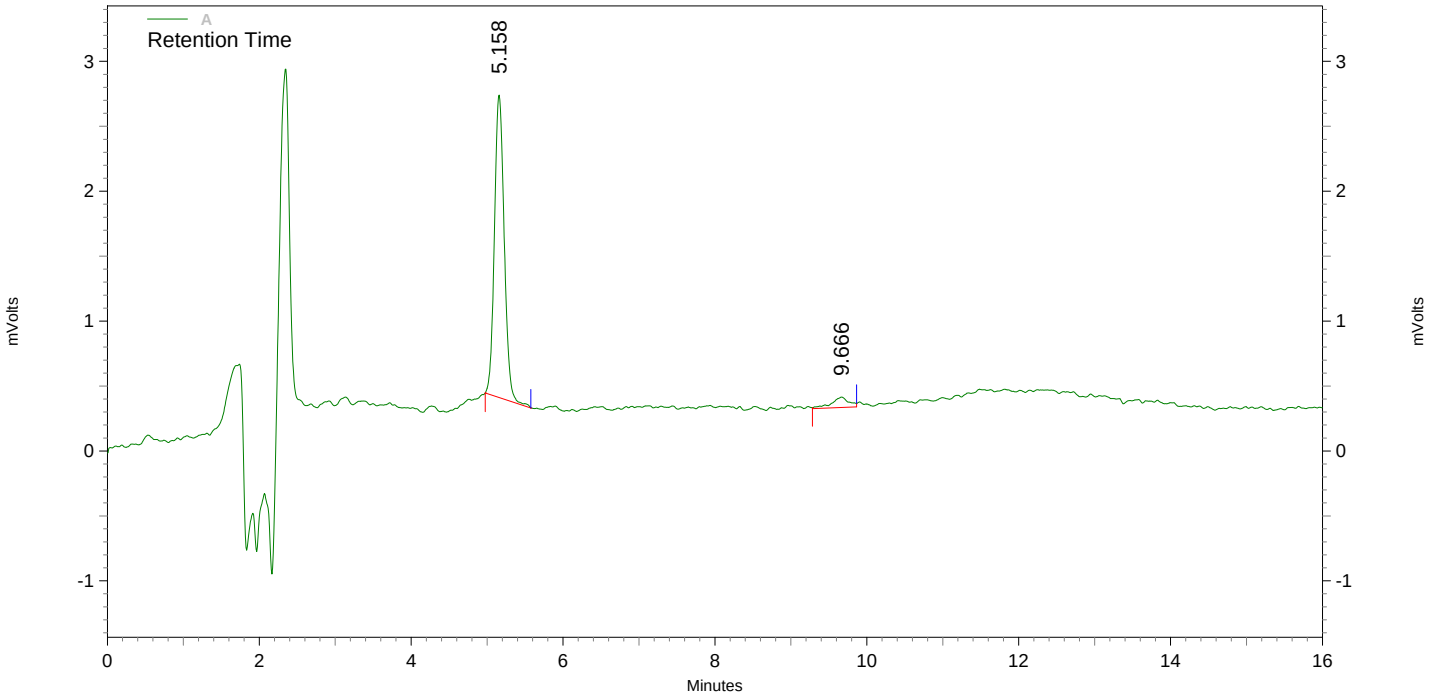
Triplicate Sample Analysis Relative Standard Deviation Calculations

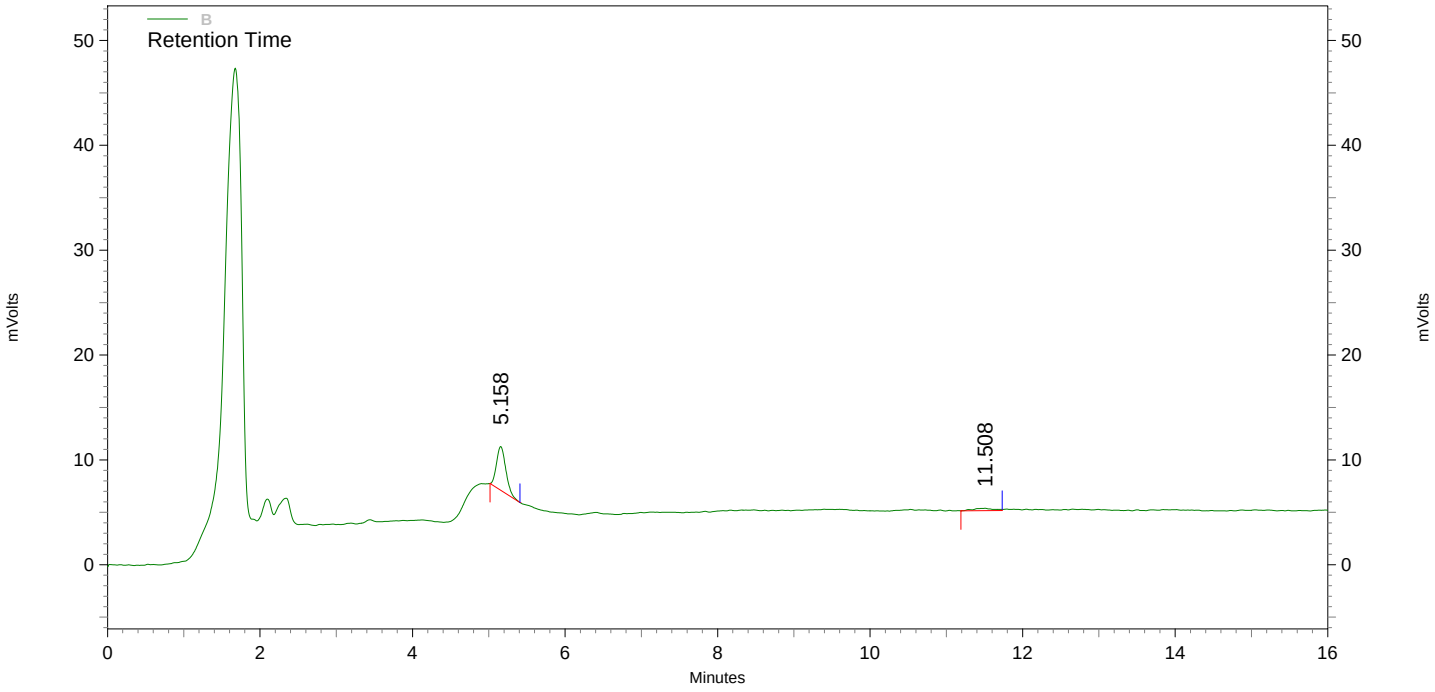
Analyst: red
Sample ID: **870201**
Analysis Date: 12/14/2010
Data path: C:\Instarch\Data\HPLC 2\8330A_B\121310exp-primary

	Analyte Concentration (ug/mL)						
Analyte	**Parent Sample**	**Duplicate Sample**	**Triplicate Sample**	**Mean Conc. (ug/mL)**	**Standard Deviation**	**%RSD**	**Flag (>20% RSD)**
HMX	0	0	0	0	0	#DIV/0!	#DIV/0!
RDX	0	0	0	0	0	#DIV/0!	#DIV/0!
1.3.5-Trinitrobenzne	0	0	0	0	0	#DIV/0!	#DIV/0!
1.2-Dinitrobenzene (SSTD)	109.943	115.817	117.689	114.483	4.0416328	3.530334	
1.3-Dinitrobenzene	0	0	0	0	0	#DIV/0!	#DIV/0!
tetryl	0	0	0	0	0	#DIV/0!	#DIV/0!
3,5-dinitroaniline	0	0	0	0	0	#DIV/0!	#DIV/0!
Nitrobenzene	0	0	0	0	0	#DIV/0!	#DIV/0!
2,4,6-Trinitrotoluene	0	0	0	0	0	#DIV/0!	#DIV/0!
2-amino-4,6-Dinitrotoluene	0	0	0	0	0	#DIV/0!	#DIV/0!
4-amino-2,6-Dinitrotoluene	0	0	0	0	0	#DIV/0!	#DIV/0!
2,6-Dinitrotoluene	0	0	0	0	0	#DIV/0!	#DIV/0!
2,4-Dinitrotoluene	0	0	0	0	0	#DIV/0!	#DIV/0!
2-Nitrotoluene	0	0	0	0	0	#DIV/0!	#DIV/0!
4-Nitrotoluene	0	0	0	0	0	#DIV/0!	#DIV/0!
3-Nitrotoluene	0	0	0	0	0	#DIV/0!	#DIV/0!
Nitroglycerin	0	0	0	0	0	#DIV/0!	#DIV/0!
PETN	0	0	0	0	0	#DIV/0!	#DIV/0!

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\8330A_B\121310exp-primary\008.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\121310exp-primary.met
Sample ID: 870201 dup
Acquired: Dec 14, 2010 11:53:56
Data Summary: {Data Description}





A Results

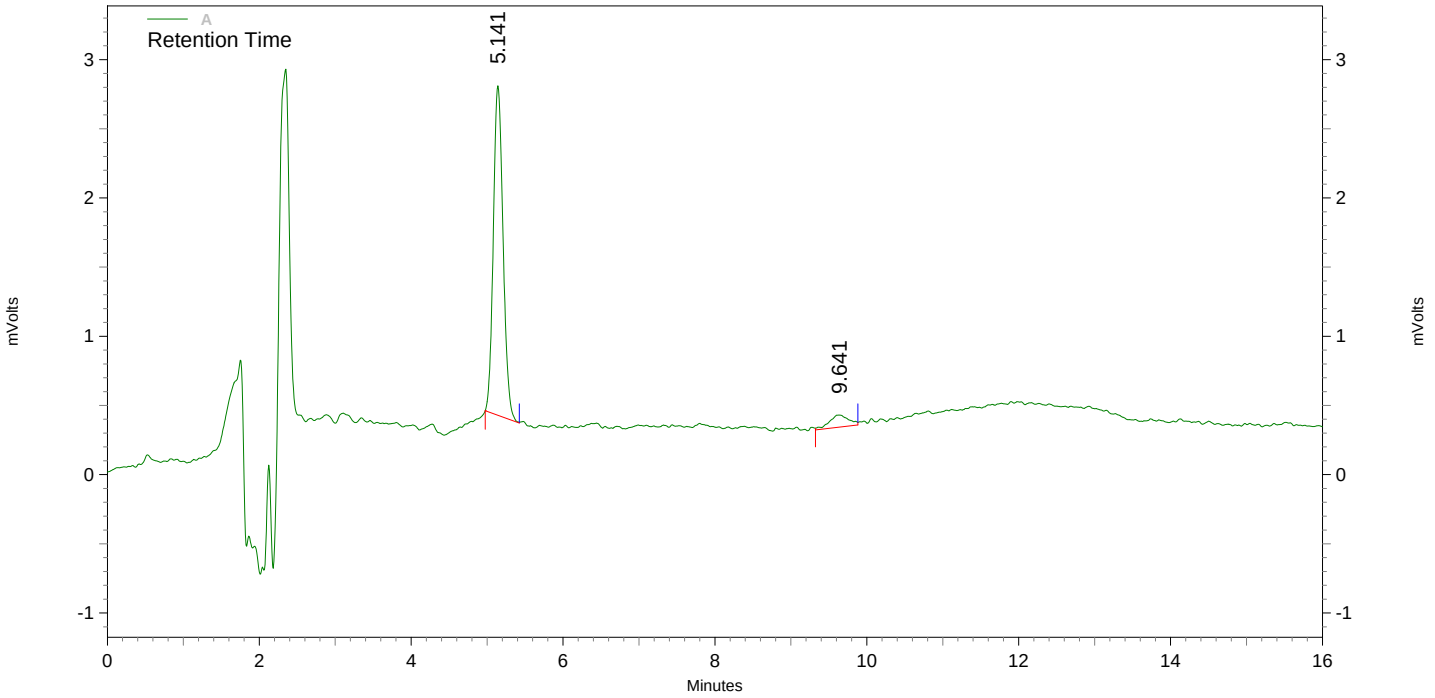
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX			**0.000 BDL**
RDX			**0.000 BDL**
12-DNB (SSTD)	5.158	20843	**115.817**
135-TNB			**0.000 BDL**
13-DNB			**0.000 BDL**
TETRYL			**0.000 BDL**
35-DNA			**0.000 BDL**
NB			**0.000 BDL**
246-TNT			**0.000 BDL**
4-AM-26-DNT			**0.000 BDL**
2-AM-46-DNT			**0.000 BDL**
2-NT			**0.000 BDL**
4-NT			**0.000 BDL**
3-NT			**0.000 BDL**

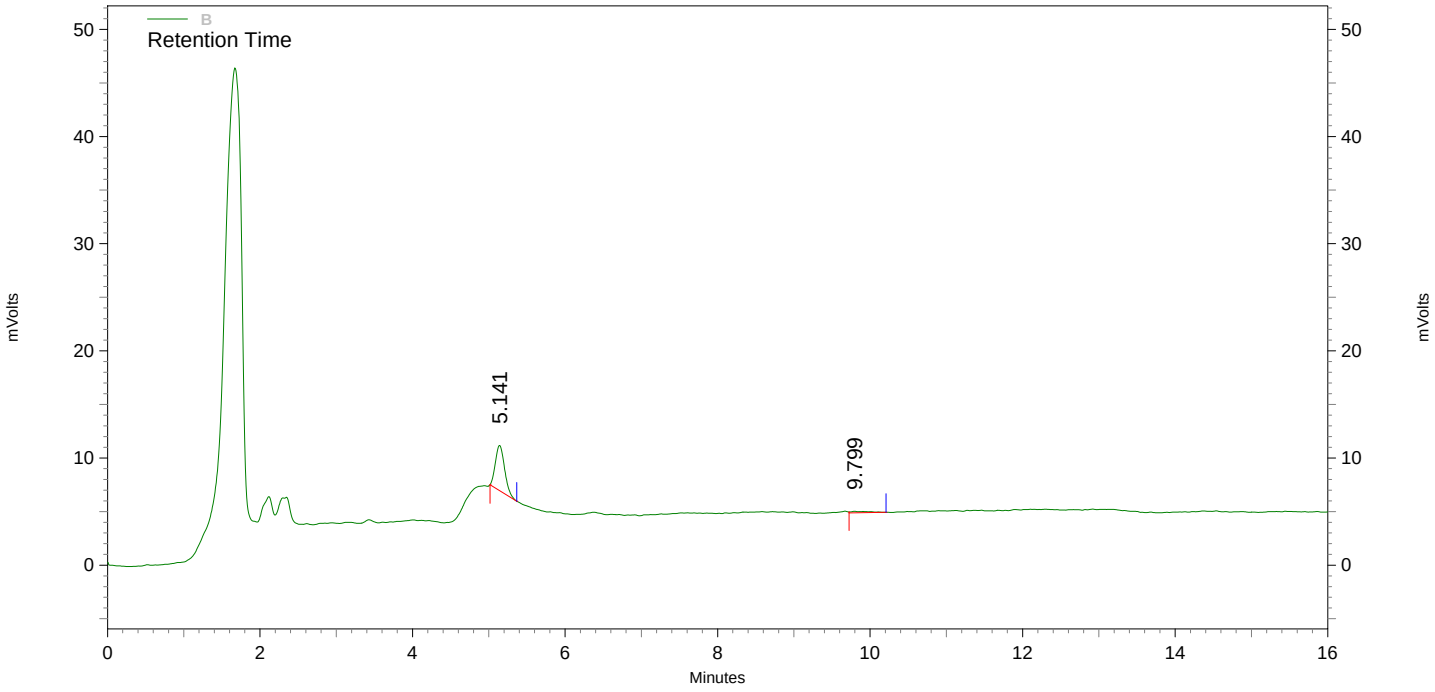
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG			**0.000 BDL**
26-DNT			**0.000 BDL**
24-DNT			**0.000 BDL**
PETN			**0.000 BDL**

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\8330A_B\121310exp-primary\009.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\121310exp-primary.met
Sample ID: 870201 trip
Acquired: Dec 14, 2010 12:17:08
Data Summary: {Data Description}





A Results

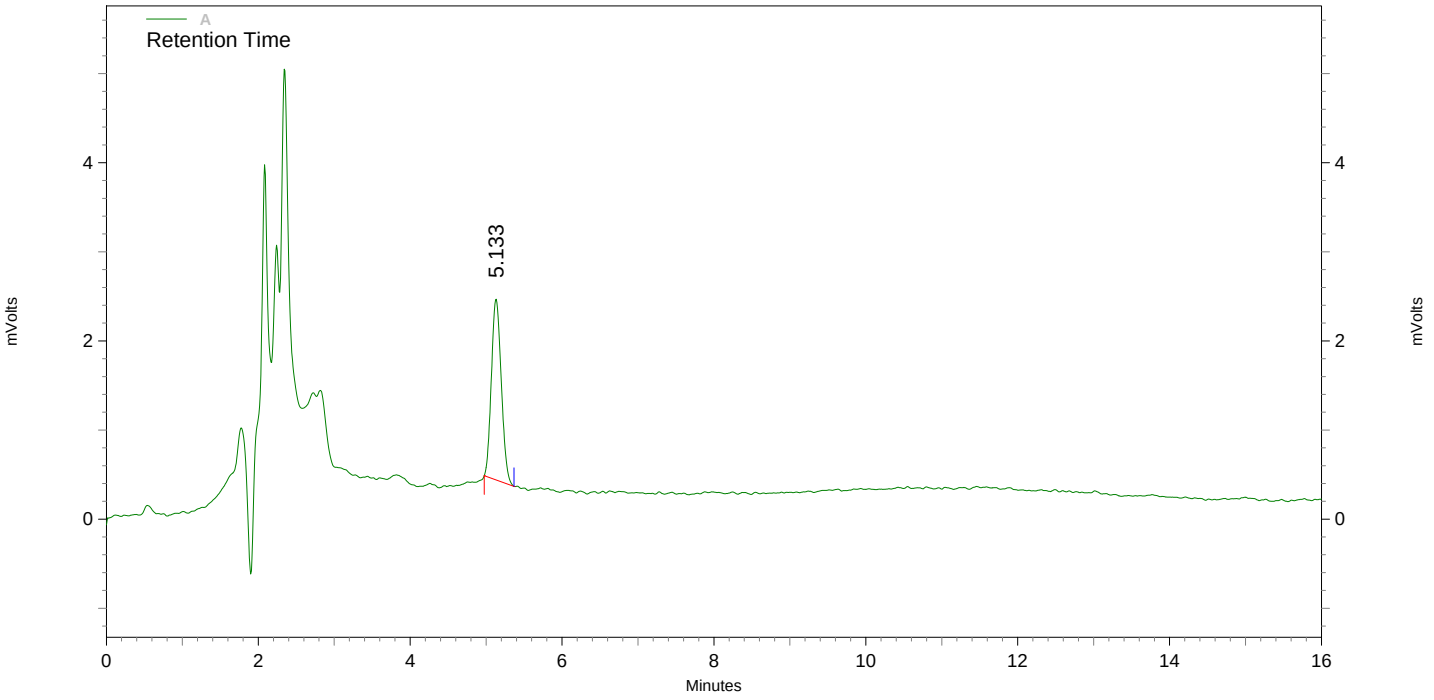
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX			**0.000 BDL**
RDX			**0.000 BDL**
12-DNB (SSTD)	5.141	21171	**117.689**
135-TNB			**0.000 BDL**
13-DNB			**0.000 BDL**
TETRYL			**0.000 BDL**
35-DNA			**0.000 BDL**
NB			**0.000 BDL**
246-TNT			**0.000 BDL**
4-AM-26-DNT			**0.000 BDL**
2-AM-46-DNT			**0.000 BDL**
2-NT			**0.000 BDL**
4-NT			**0.000 BDL**
3-NT			**0.000 BDL**

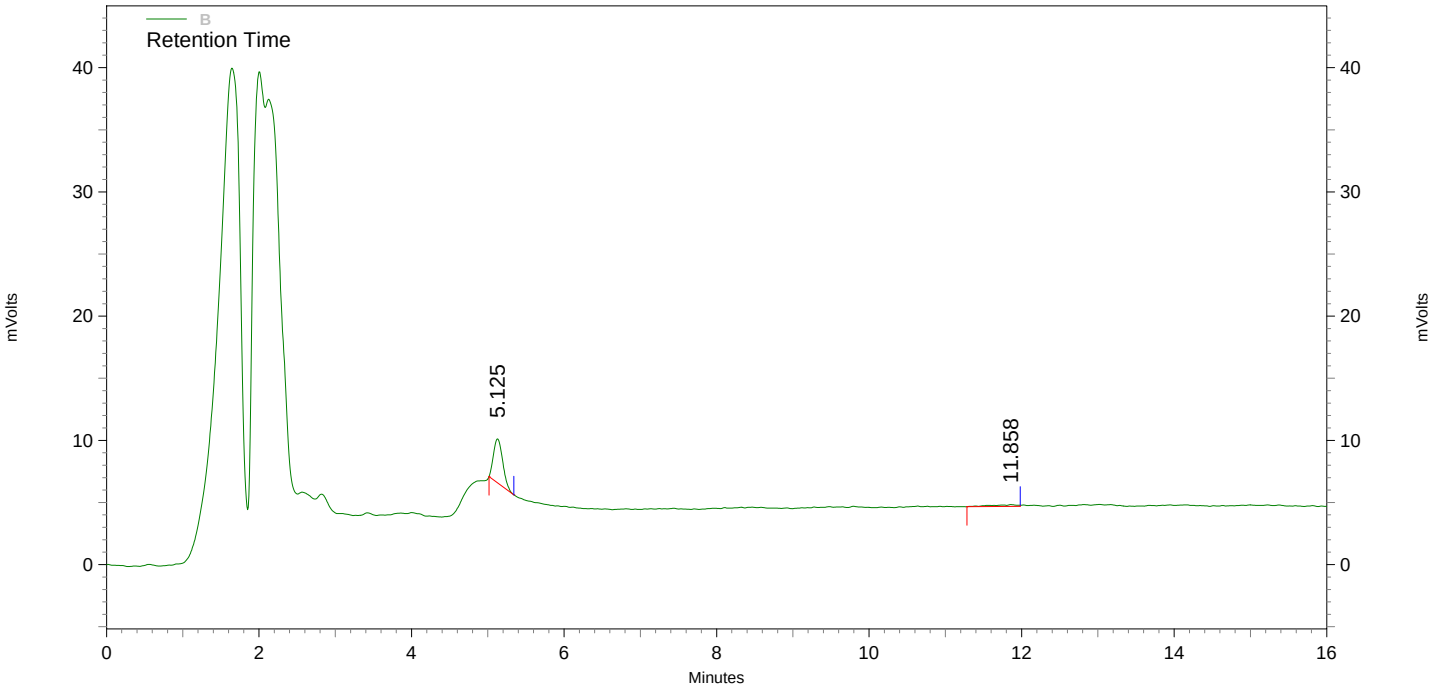
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG			**0.000 BDL**
26-DNT			**0.000 BDL**
24-DNT	9.799	2023	**0.003**
PETN			**0.000 BDL**

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\8330A_B\121310exp-primary\017.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\121310exp-primary.met
Sample ID: 72415,877974,,mbs
Acquired: Dec 14, 2010 15:22:43
Data Summary: {Data Description}





A Results

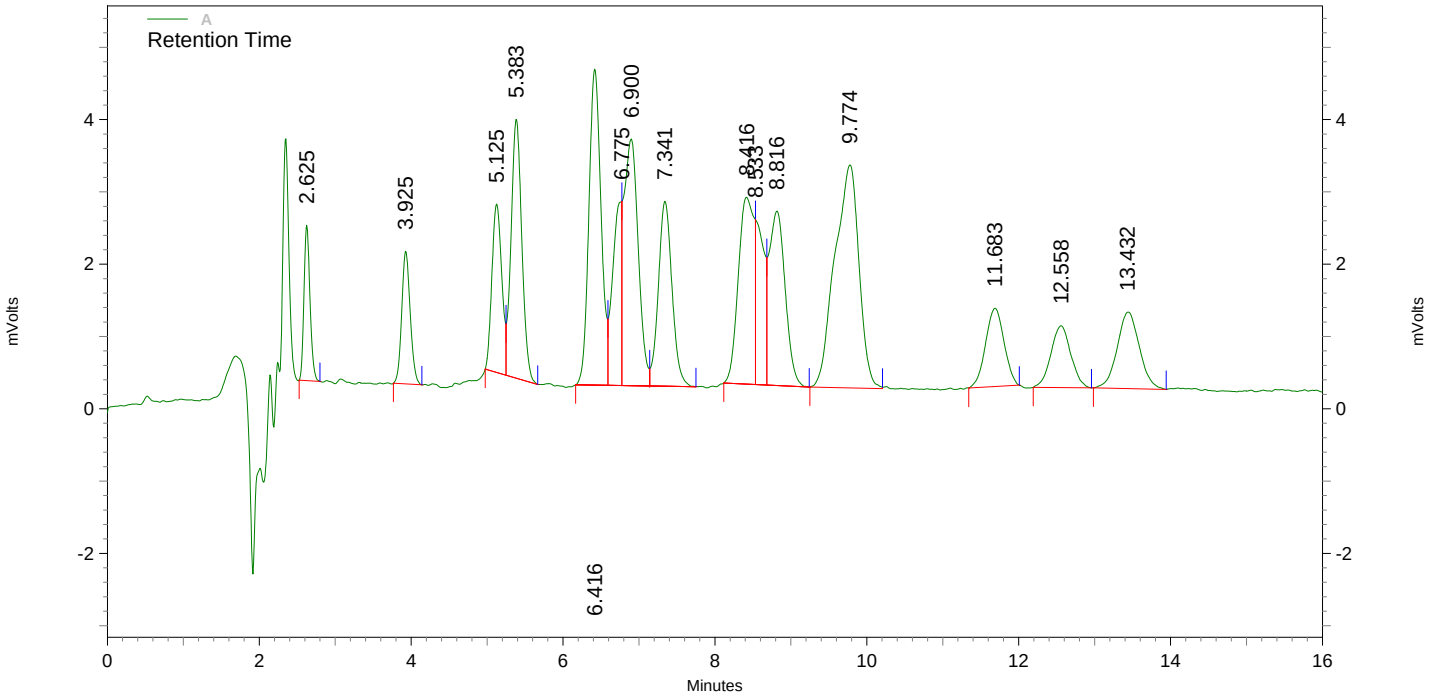
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX			**0.000 BDL**
RDX			**0.000 BDL**
12-DNB (SSTD)	5.133	18354	**101.610**
135-TNB			**0.000 BDL**
13-DNB			**0.000 BDL**
TETRYL			**0.000 BDL**
35-DNA			**0.000 BDL**
NB			**0.000 BDL**
246-TNT			**0.000 BDL**
4-AM-26-DNT			**0.000 BDL**
2-AM-46-DNT			**0.000 BDL**
2-NT			**0.000 BDL**
4-NT			**0.000 BDL**
3-NT			**0.000 BDL**

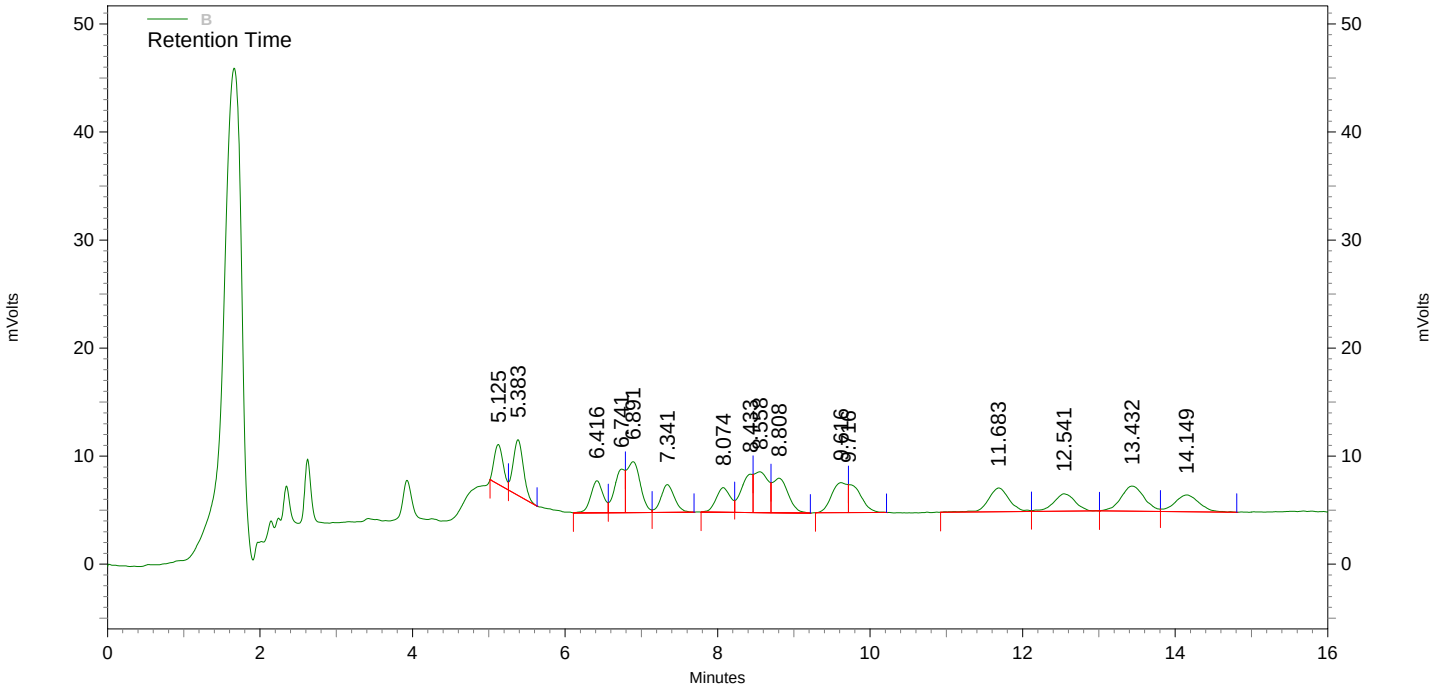
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG			**0.000 BDL**
26-DNT			**0.000 BDL**
24-DNT			**0.000 BDL**
PETN			**0.000 BDL**

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\8330A_B\121310exp-primary\018.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\121310exp-primary.met
Sample ID: 72415,877975,,lcss
Acquired: Dec 14, 2010 15:45:55
Data Summary: {Data Description}





A Results

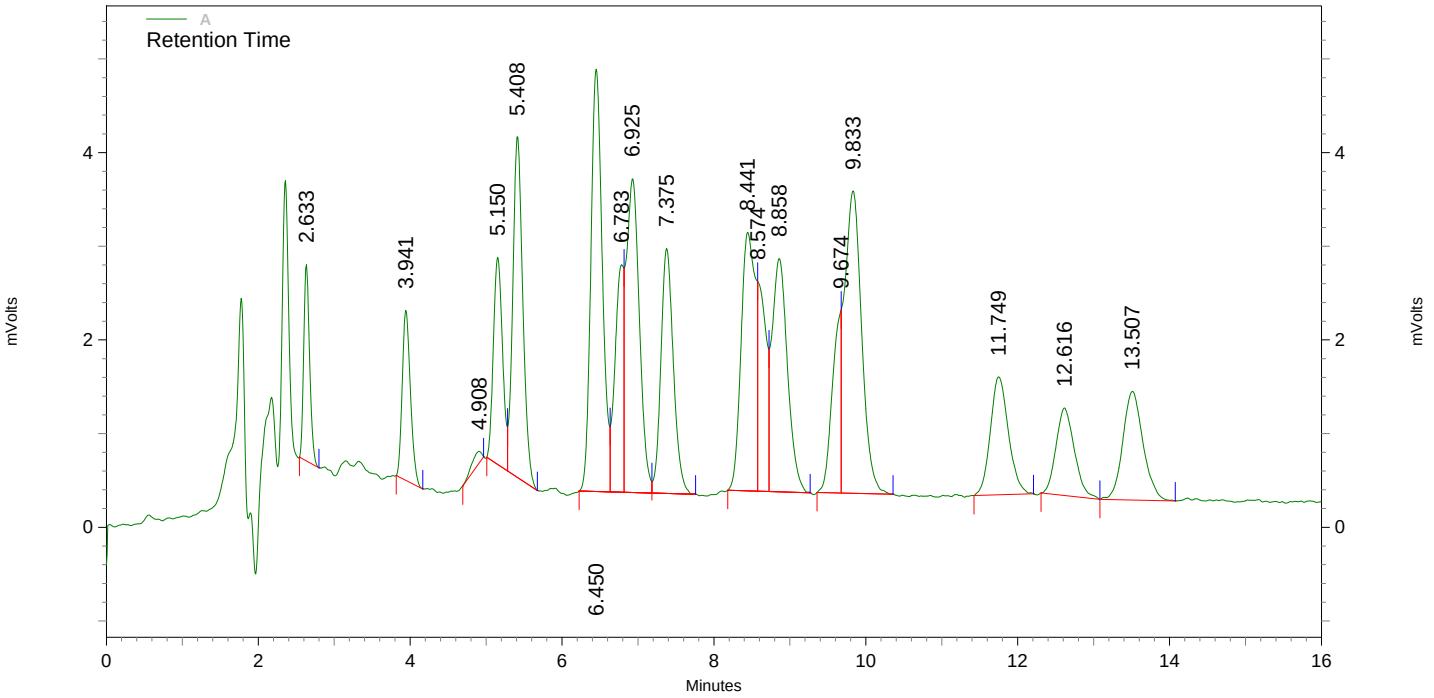
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX	2.625	11910	**0.519**
RDX	3.925	14314	**0.480**
12-DNB (SSTD)	5.125	21022	**116.838**
135-TNB	5.383	35229	**0.524**
13-DNB	6.416	48700	**0.562**
TETRYL	6.775	20838	**0.475**
35-DNA	6.900	44579	**0.578**
NB	7.341	32045	**0.567**
246-TNT	8.416	36533	**0.561**
4-AM-26-DNT	8.533	18249	**0.440**
2-AM-46-DNT	8.816	35396	**0.528**
2-NT	11.683	18317	**0.506**
4-NT	12.558	15545	**0.509**
3-NT	13.432	21539	**0.565**

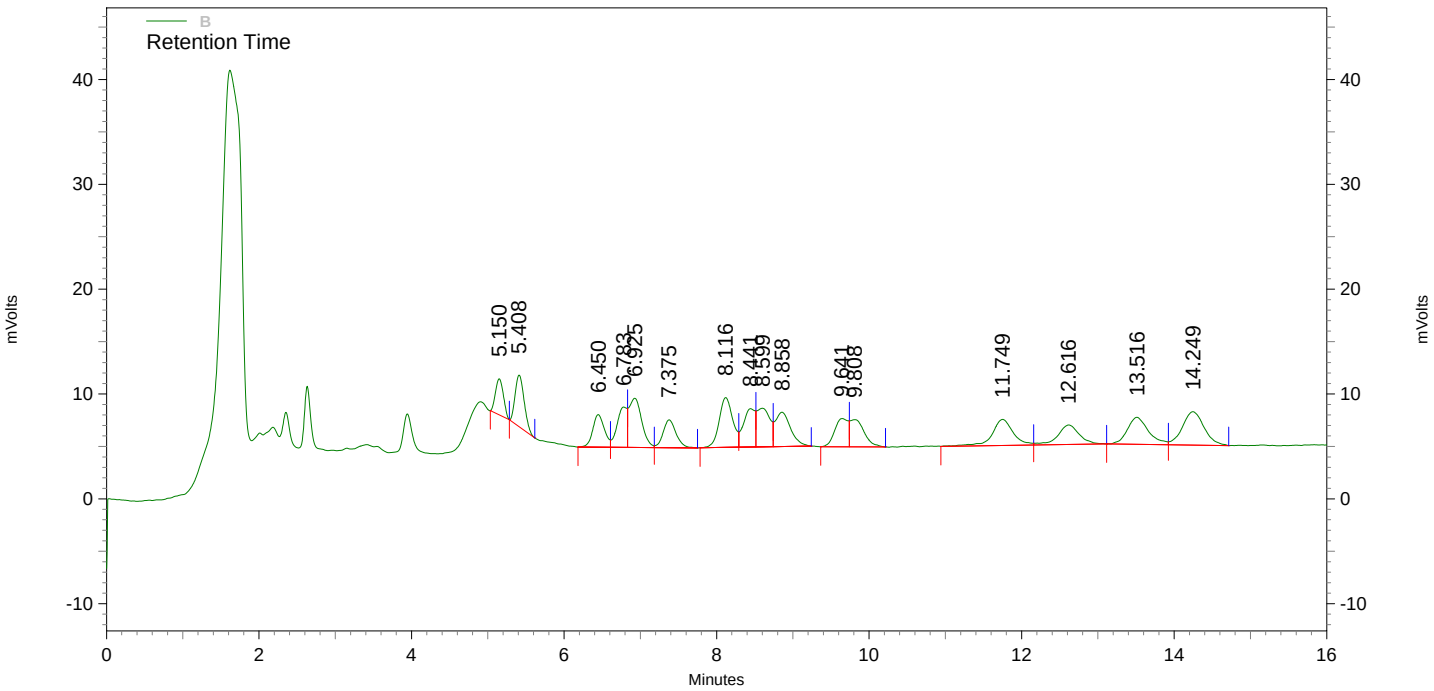
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG	8.074	29612	**1.063**
26-DNT	9.616	39513	**0.586**
24-DNT	9.716	30002	**0.490**
PETN	14.149	34937	**1.116**

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\8330A_B\121310exp-primary\020.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\121310exp-primary.met
Sample ID: 72415,877976,,mss
Acquired: Dec 14, 2010 17:50:14
Data Summary: {Data Description}





A Results

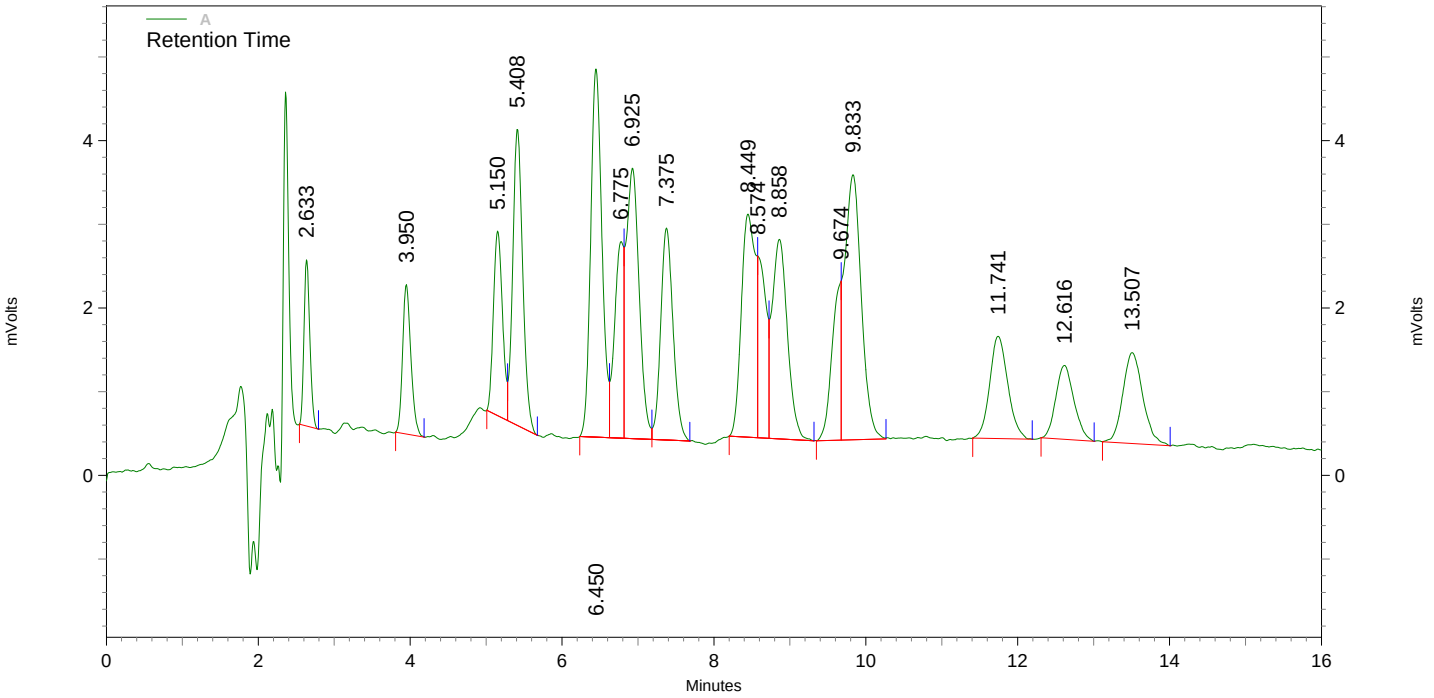
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX	2.633	11398	**0.496**
RDX	3.941	13649	**0.456**
12-DNB (SSTD)	5.150	18545	**102.700**
135-TNB	5.408	33365	**0.496**
13-DNB	6.450	47284	**0.545**
TETRYL	6.783	19193	**0.435**
35-DNA	6.925	40608	**0.527**
NB	7.375	29929	**0.529**
246-TNT	8.441	36073	**0.554**
4-AM-26-DNT	8.574	17259	**0.415**
2-AM-46-DNT	8.858	35487	**0.529**
2-NT	11.749	20841	**0.578**
4-NT	12.616	15657	**0.513**
3-NT	13.507	21585	**0.566**

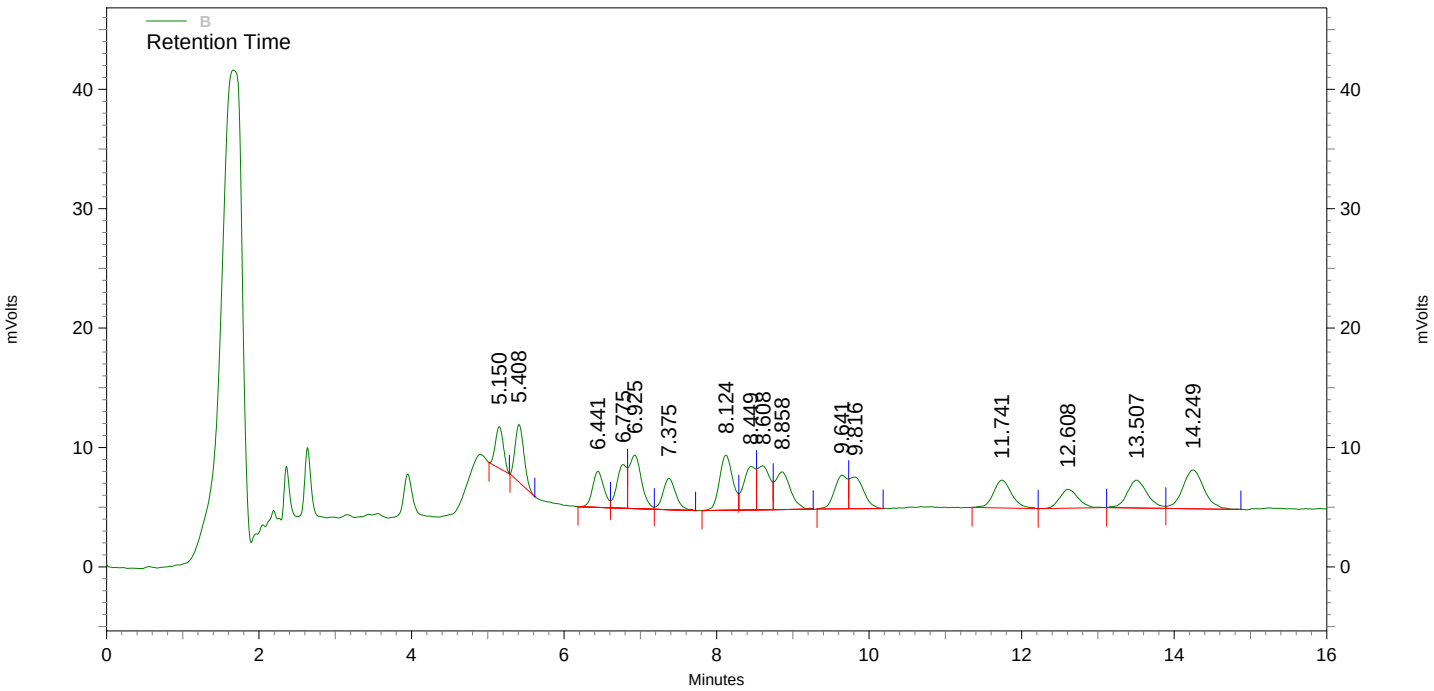
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG	8.116	58968	**2.207**
26-DNT	9.641	33012	**0.487**
24-DNT	9.808	33409	**0.549**
PETN	14.249	63191	**2.103**

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\8330A_B\121310exp-primary\021.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\121310exp-primary.met
Sample ID: 72415,877977,,msds
Acquired: Dec 14, 2010 18:13:27
Data Summary: {Data Description}





A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX	2.633	10794	**0.469**
RDX	3.950	13570	**0.454**
12-DNB (SSTD)	5.150	18360	**101.644**
135-TNB	5.408	32281	**0.479**
13-DNB	6.450	45356	**0.522**
TETRYL	6.775	19373	**0.440**
35-DNA	6.925	38420	**0.499**
NB	7.375	28676	**0.507**
246-TNT	8.449	34293	**0.526**
4-AM-26-DNT	8.574	16644	**0.399**
2-AM-46-DNT	8.858	33470	**0.498**
2-NT	11.741	20240	**0.561**
4-NT	12.616	14654	**0.478**
3-NT	13.507	19922	**0.521**

B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG	8.124	56311	**2.103**
26-DNT	9.641	33178	**0.489**
24-DNT	9.816	34308	**0.564**
PETN	14.249	63400	**2.110**

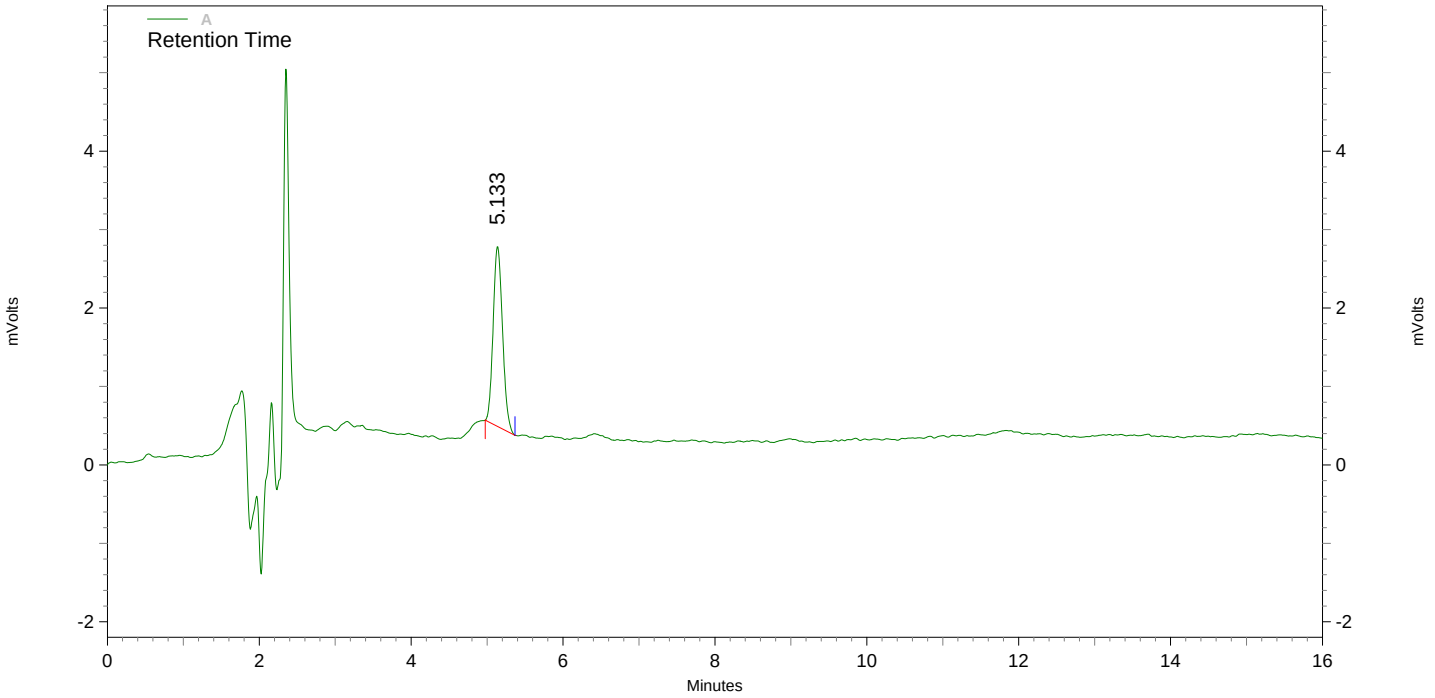
Triplicate Sample Analysis Relative Standard Deviation Calculations

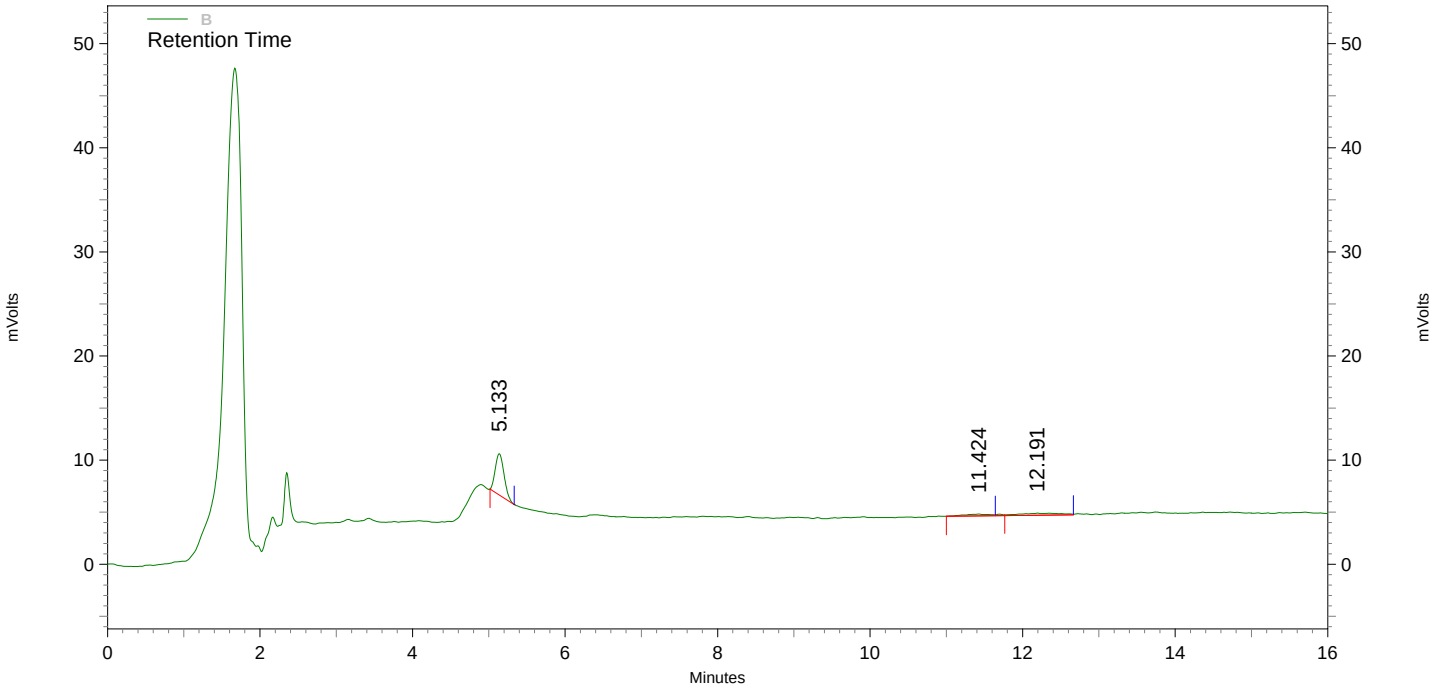
Analyst: red
Sample ID: **870189**
Analysis Date: 12/14/2010
Data path: C:\Instarch\Data\HPLC 2\8330A_B\121310exp-primary

	Analyte Concentration (ug/mL)						
Analyte	**Parent Sample**	**Duplicate Sample**	**Triplicate Sample**	**Mean Conc. (ug/mL)**	**Standard Deviation**	**%RSD**	**Flag (>20% RSD)**
HMX	0	0	0	0	0	#DIV/0!	#DIV/0!
RDX	0	0	0	0	0	#DIV/0!	#DIV/0!
1.3.5-Trinitrobenzne	0	0	0	0	0	#DIV/0!	#DIV/0!
1.2-Dinitrobenzene (SSTD)	124.938	109.241	111.89	115.356333	8.4030085	7.284393	
1.3-Dinitrobenzene	0	0	0	0	0	#DIV/0!	#DIV/0!
tetryl	0	0	0	0	0	#DIV/0!	#DIV/0!
3,5-dinitroaniline	0	0	0	0	0	#DIV/0!	#DIV/0!
Nitrobenzene	0	0	0	0	0	#DIV/0!	#DIV/0!
2,4,6-Trinitrotoluene	0	0	0	0	0	#DIV/0!	#DIV/0!
2-amino-4,6-Dinitrotoluene	0	0	0	0	0	#DIV/0!	#DIV/0!
4-amino-2,6-Dinitrotoluene	0	0	0	0	0	#DIV/0!	#DIV/0!
2,6-Dinitrotoluene	0	0	0	0	0	#DIV/0!	#DIV/0!
2,4-Dinitrotoluene	0	0	0	0	0	#DIV/0!	#DIV/0!
2-Nitrotoluene	0	0	0	0	0	#DIV/0!	#DIV/0!
4-Nitrotoluene	0	0	0	0	0	#DIV/0!	#DIV/0!
3-Nitrotoluene	0	0		0	0	#DIV/0!	#DIV/0!
Nitroglycerin	0	0	0	0	0	#DIV/0!	#DIV/0!
PETN	0	0	0	0	0	#DIV/0!	#DIV/0!

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\8330A_B\121310exp-primary\022.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\121310exp-primary.met
Sample ID: 870189 dup
Acquired: Dec 14, 2010 18:36:39
Data Summary: {Data Description}





A Results

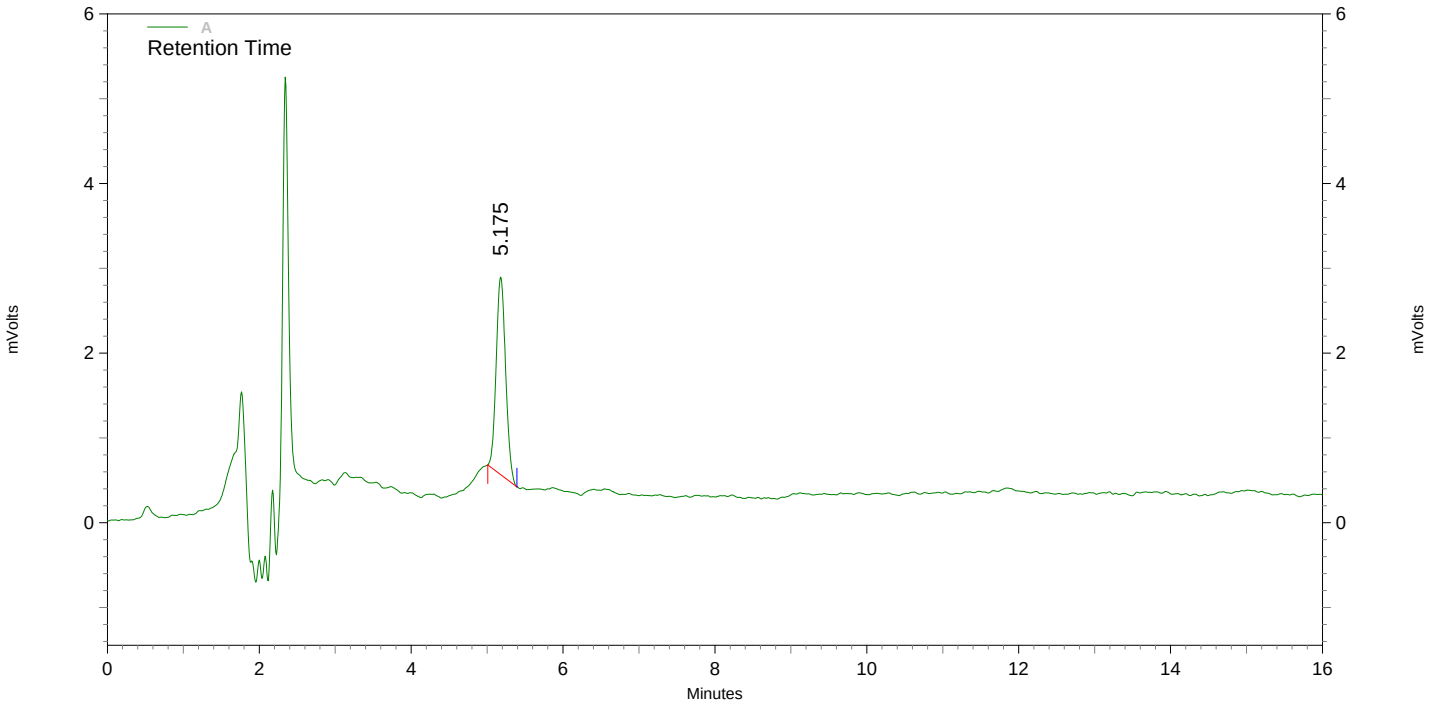
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX			**0.000 BDL**
RDX			**0.000 BDL**
12-DNB (SSTD)	5.133	19691	**109.241**
135-TNB			**0.000 BDL**
13-DNB			**0.000 BDL**
TETRYL			**0.000 BDL**
35-DNA			**0.000 BDL**
NB			**0.000 BDL**
246-TNT			**0.000 BDL**
4-AM-26-DNT			**0.000 BDL**
2-AM-46-DNT			**0.000 BDL**
2-NT			**0.000 BDL**
4-NT			**0.000 BDL**
3-NT			**0.000 BDL**

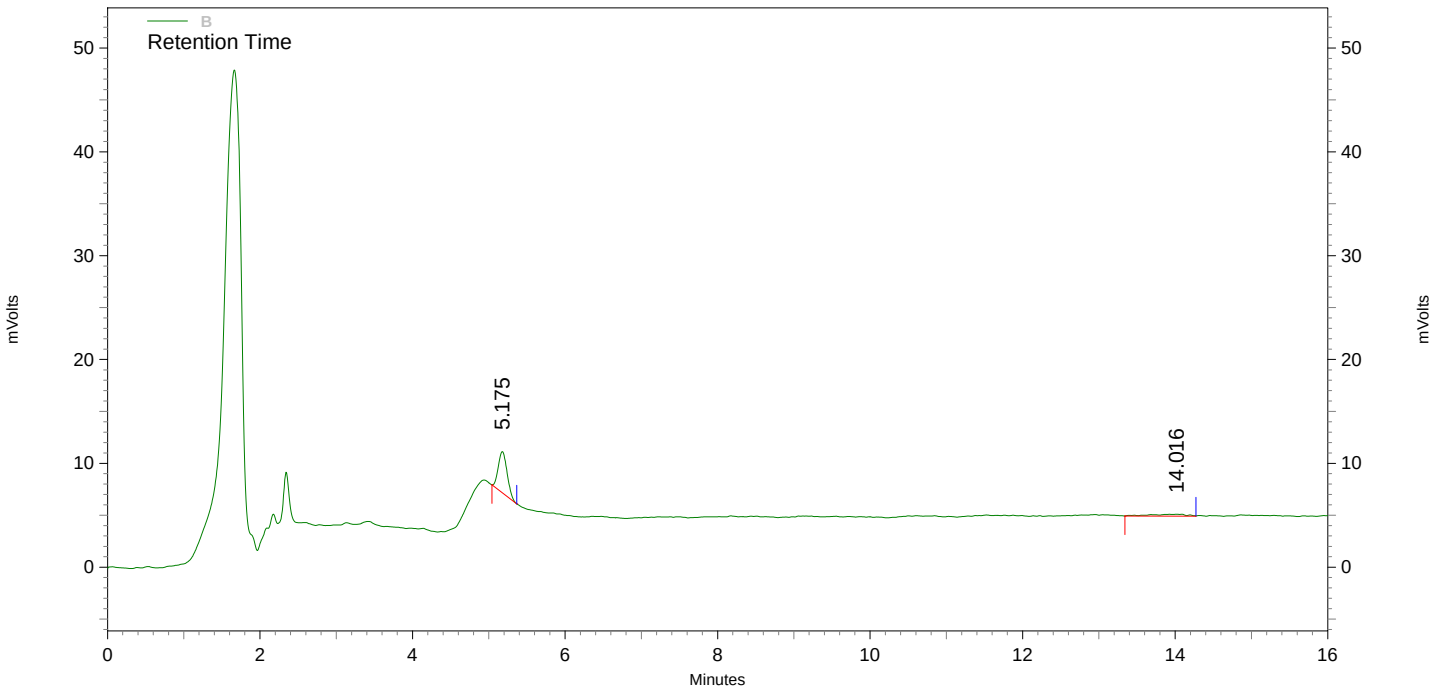
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG			**0.000 BDL**
26-DNT			**0.000 BDL**
24-DNT			**0.000 BDL**
PETN			**0.000 BDL**

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\8330A_B\121310exp-primary\023.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\121310exp-primary.met
Sample ID: 870189 trip
Acquired: Dec 14, 2010 18:59:50
Data Summary: {Data Description}





A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX			**0.000 BDL**
RDX			**0.000 BDL**
12-DNB (SSTD)	5.175	20155	**111.890**
135-TNB			**0.000 BDL**
13-DNB			**0.000 BDL**
TETRYL			**0.000 BDL**
35-DNA			**0.000 BDL**
NB			**0.000 BDL**
246-TNT			**0.000 BDL**
4-AM-26-DNT			**0.000 BDL**
2-AM-46-DNT			**0.000 BDL**
2-NT			**0.000 BDL**
4-NT			**0.000 BDL**
3-NT			**0.000 BDL**

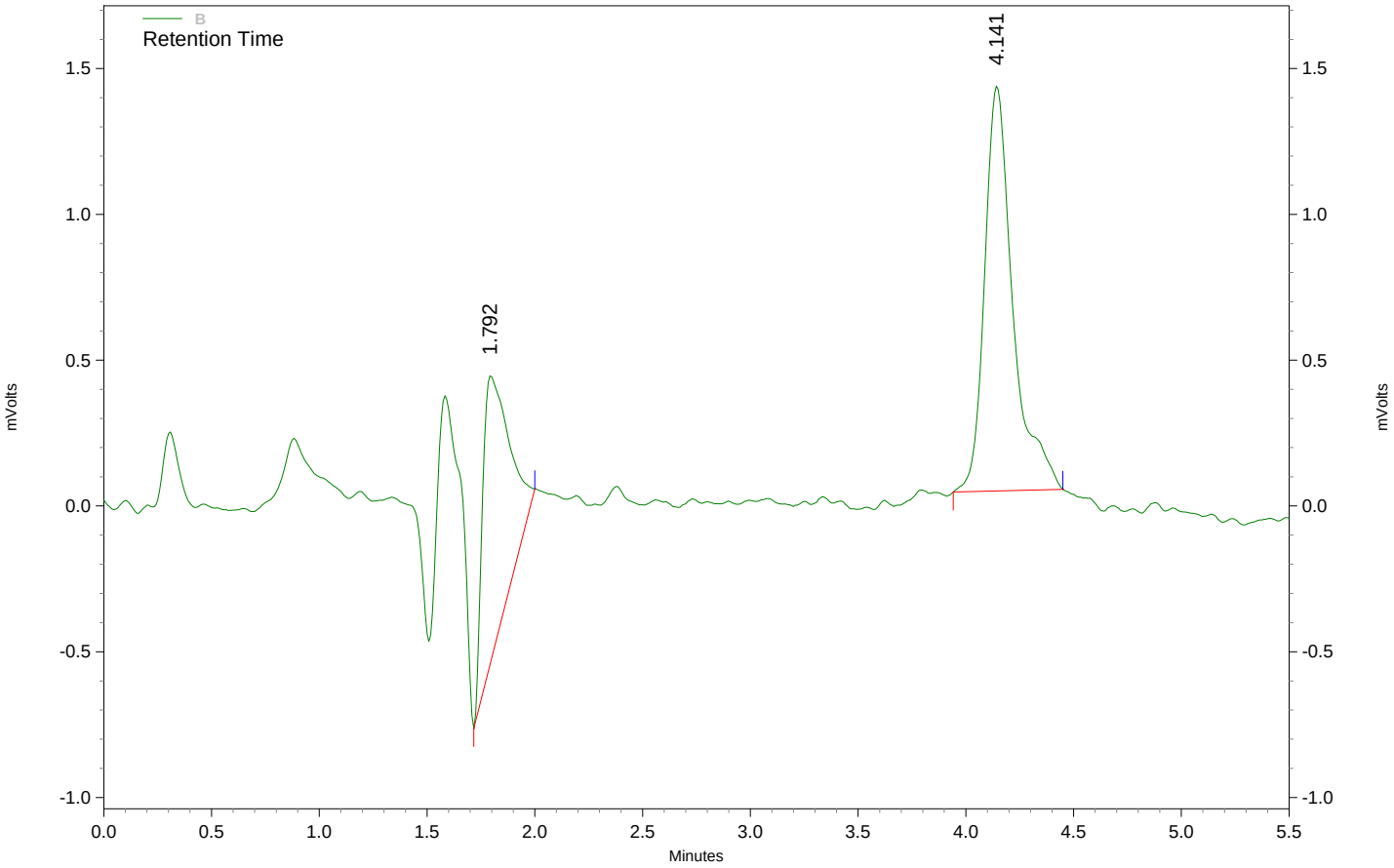
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG			**0.000 BDL**
26-DNT			**0.000 BDL**
24-DNT			**0.000 BDL**
PETN	14.016	6145	**0.109**

RED
12/30/2010

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\NQ\121610NQ-primary\003.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121610NQ-primary.met
Sample ID: 72412,875959,,mbs
Acquired: Dec 16, 2010 08:51:41
Data Summary: {Data Description}



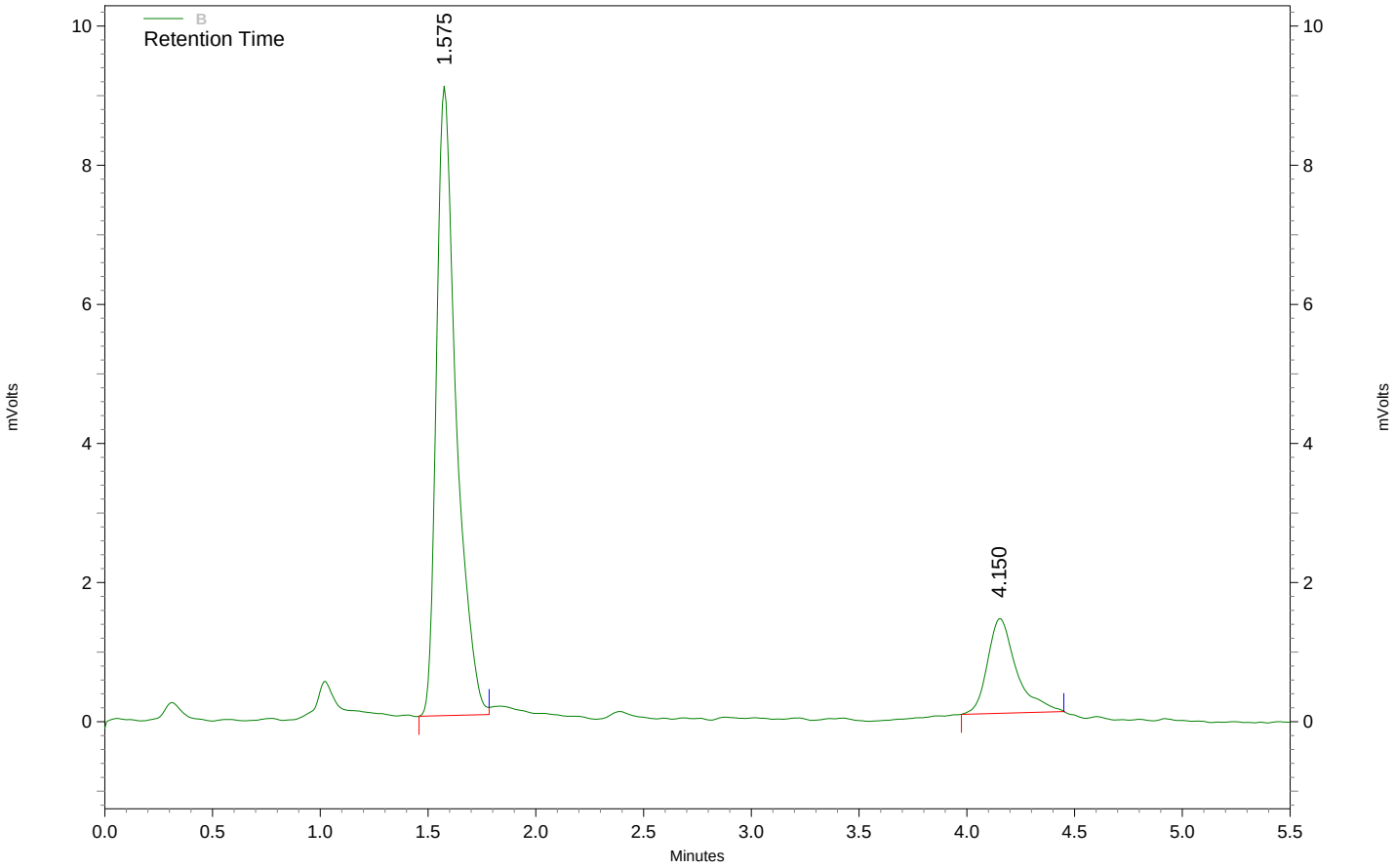
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ			**0.000 BDL**
12-DNB (SSTD)	4.141	12645	**93.953**

RED
12/30/2010

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\NQ\121610NQ-primary\004.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121610NQ-primary.met
Sample ID: 72412,875960,,lcss
Acquired: Dec 16, 2010 09:33:53
Data Summary: {Data Description}



B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.575	57894	**0.480**
12-DNB (SSTD)	4.150	12713	**94.457**

After Manual Integration

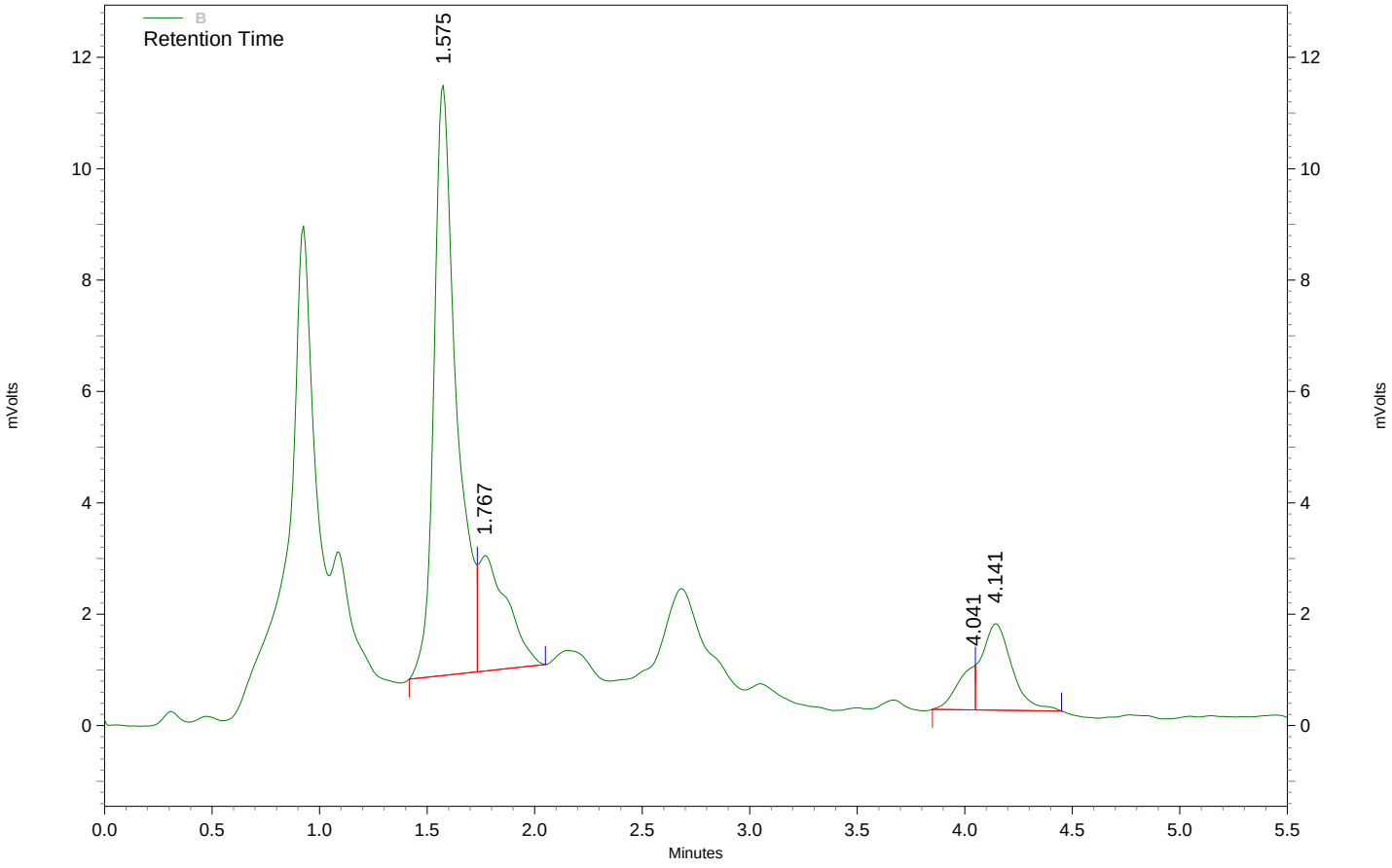
JJY
12/30/2010

RED
12/30/2010

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\NQ\121610NQ-primary\006.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121610NQ-primary.met
Sample ID: 72412,875962,,mss
Acquired: Dec 16, 2010 09:49:28

Data Summary: Reasons #3 and #4 apply to data. The baseline integration was adjusted to follow the chromatogram baseline and a split was added to remove an interfering shoulder from the surrogate peak. RED 12/16/2010



B Results

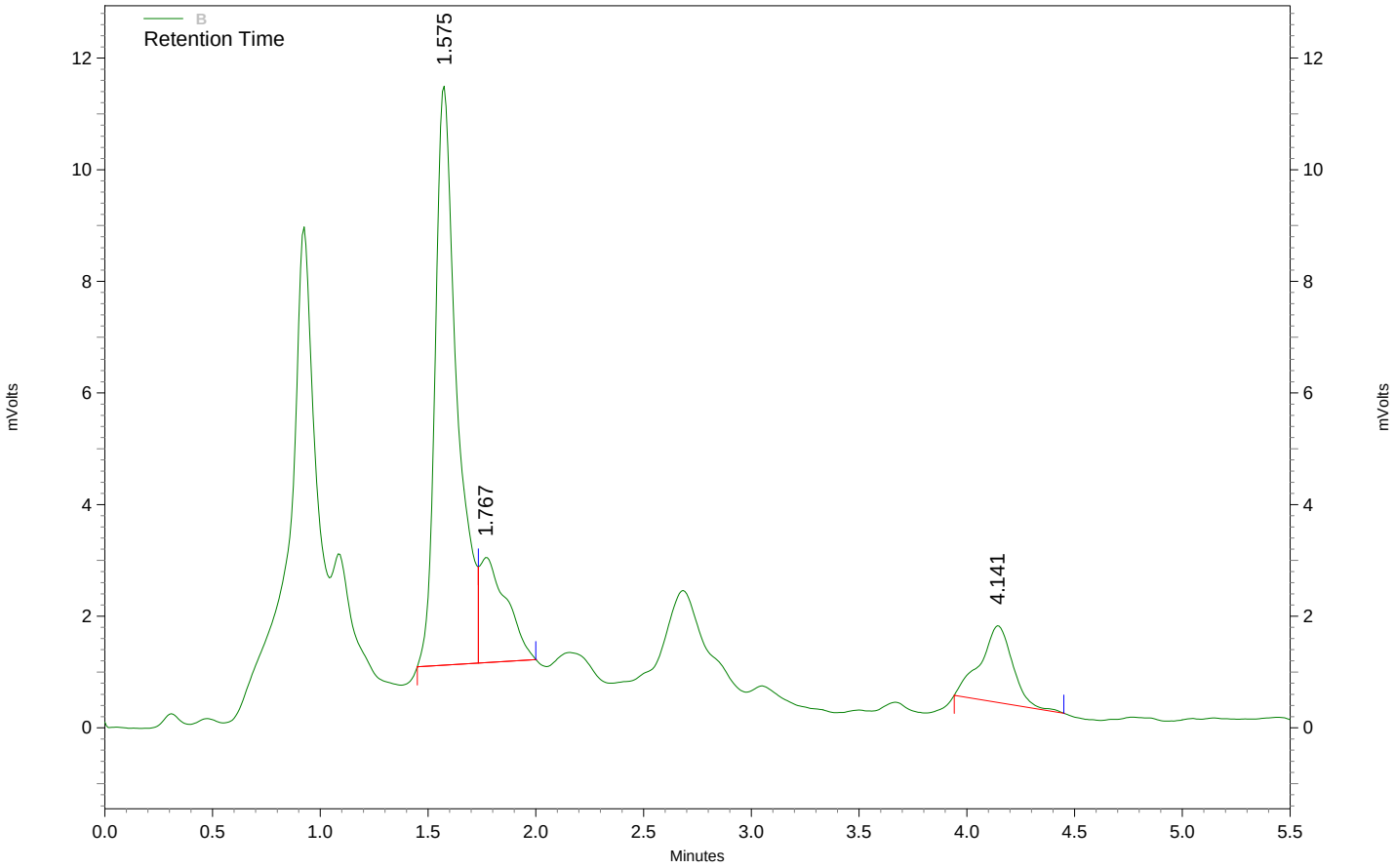
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.575	77232	**0.644**
12-DNB (SSTD)	4.141	14957	**111.091**

Before Manual Integration

JJY
12/30/2010
RED
12/30/2010

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\NQ\101610NQ-primary\006.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121610NQ-primary.met
Sample ID: 72412,875962,,mss
Acquired: Dec 16, 2010 09:49:28
Data Summary: {Data Description}



B Results

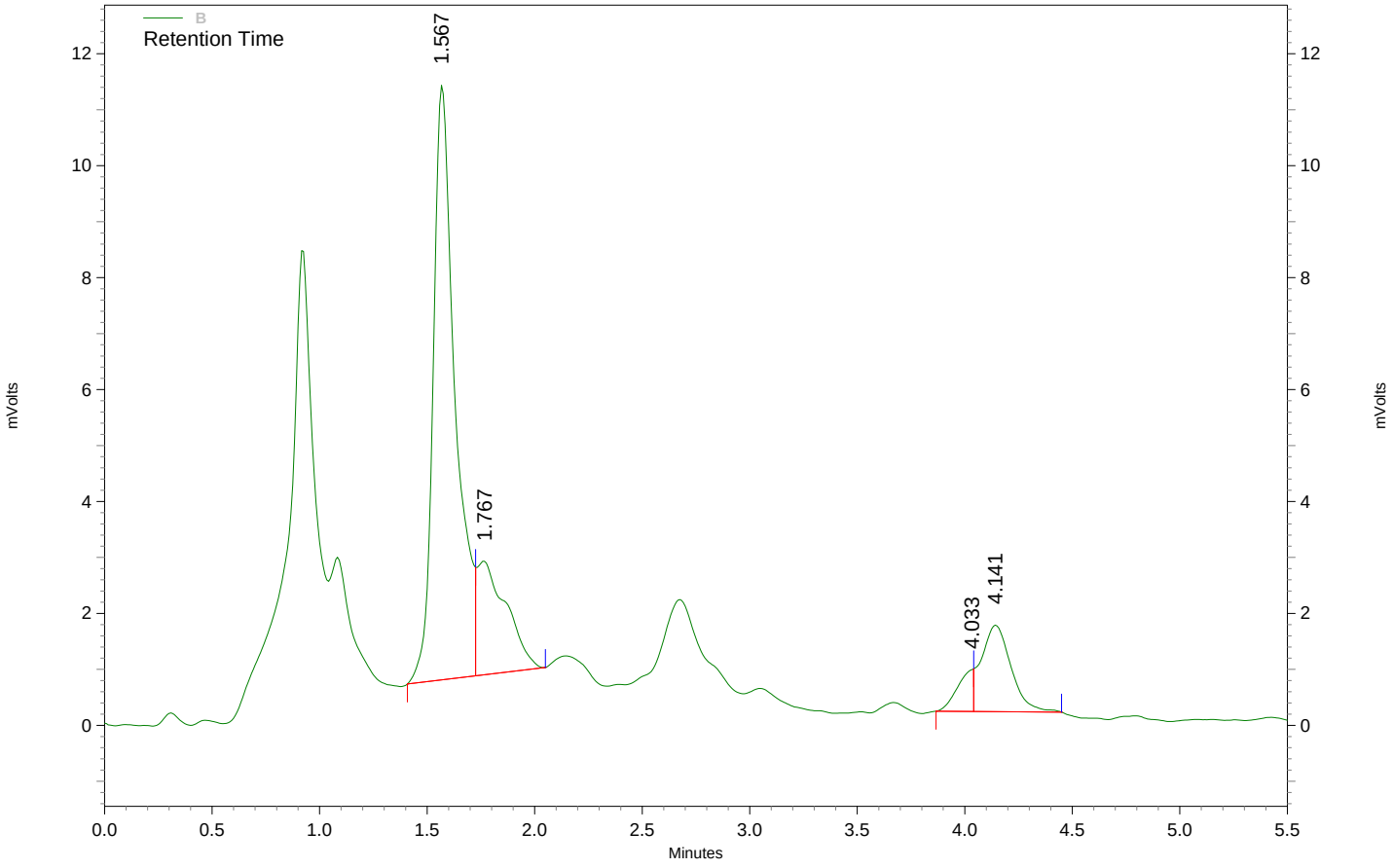
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.575	73312	**0.610**
12-DNB (SSTD)	4.141	14371	**106.747**

After Manual Integration

JJY
12/30/2010
RED
12/30/2010

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\NQ\121610NQ-primary\007.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121610NQ-primary.met
Sample ID: 72412,875963,,msds
Acquired: Dec 16, 2010 09:57:15
Data Summary: Reasons #3 and #4 apply to data. The baseline integration was adjusted to follow the chromatogram baseline and a split was added to remove an interfering shoulder from the surrogate peak. RED 12/16/2010



B Results

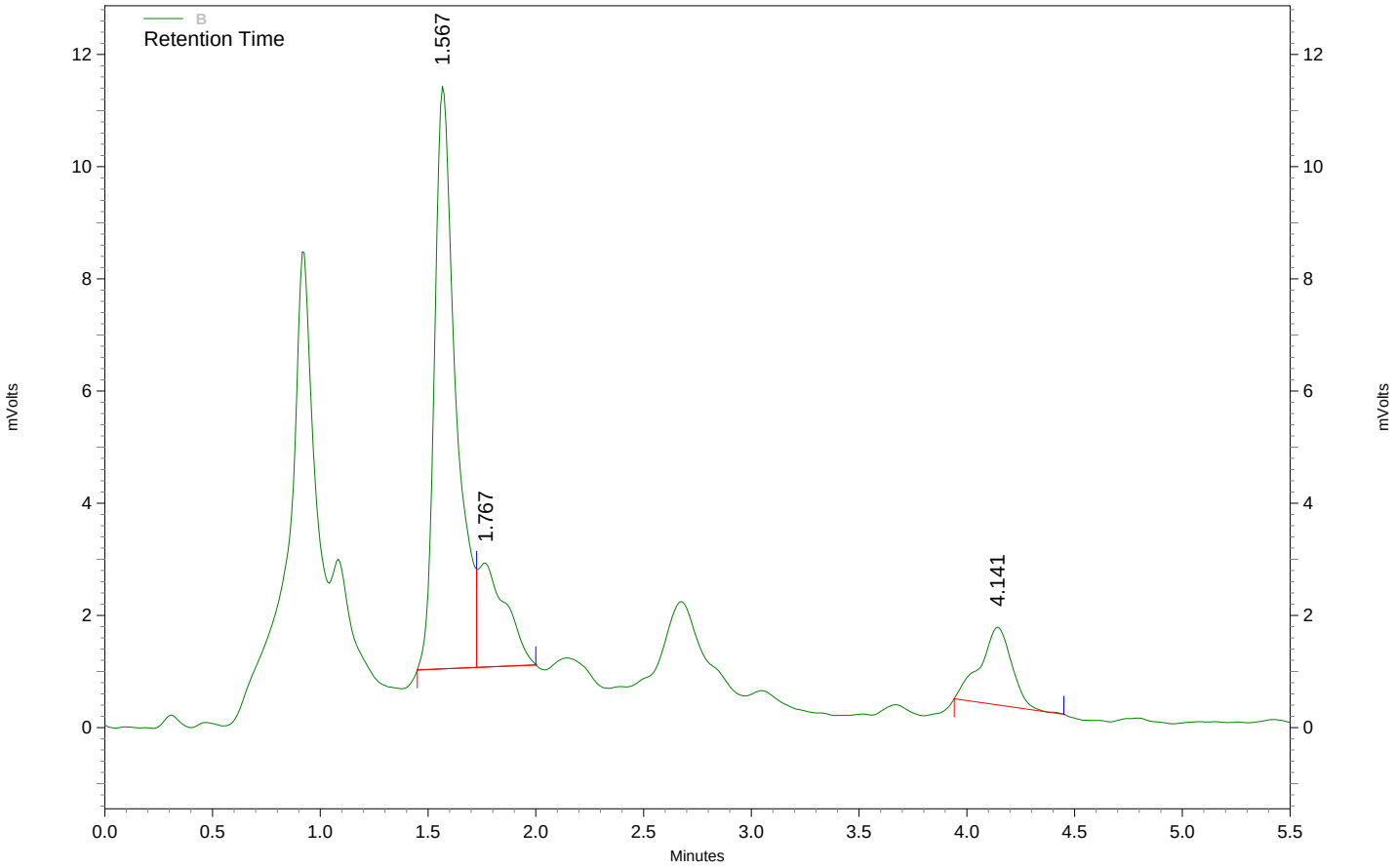
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.567	75961	**0.633**
12-DNB (SSTD)	4.141	14800	**109.927**

Before Manual Integration

JJY
12/30/2010
RED
12/30/2010

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\NQ\101610NQ-primary\007.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121610NQ-primary.met
Sample ID: 72412,875963,,msds
Acquired: Dec 16, 2010 09:57:15
Data Summary: {Data Description}



B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.567	71904	**0.599**
12-DNB (SSTD)	4.141	14170	**105.257**

Triplicate Sample Analysis Relative Standard Deviation Calculations

Analyst: Becky Duranceau
Sample ID: 870201
Analysis Date: 12/16/2010
Data path: C:\Instarch\Data\HPLC 2\Nitroguanidine_NQ\121610NQic-confirm

	Analyte Concentration (ug/mL)						
Analyte	Parent Sample	Duplicate Sample	Triplicate Sample	Mean Conc. (ug/mL)	Standard Deviation	%RSD	Flag (>20% RSD)
Nitroguanidine (NQ)	0.077	0.08	0.075	0.07733333	0.0025166	3.254239	
1.2-Dinitrobenzene (SSTD)	96.899	97.808	98.632	97.7796667	0.8668474	0.886531	

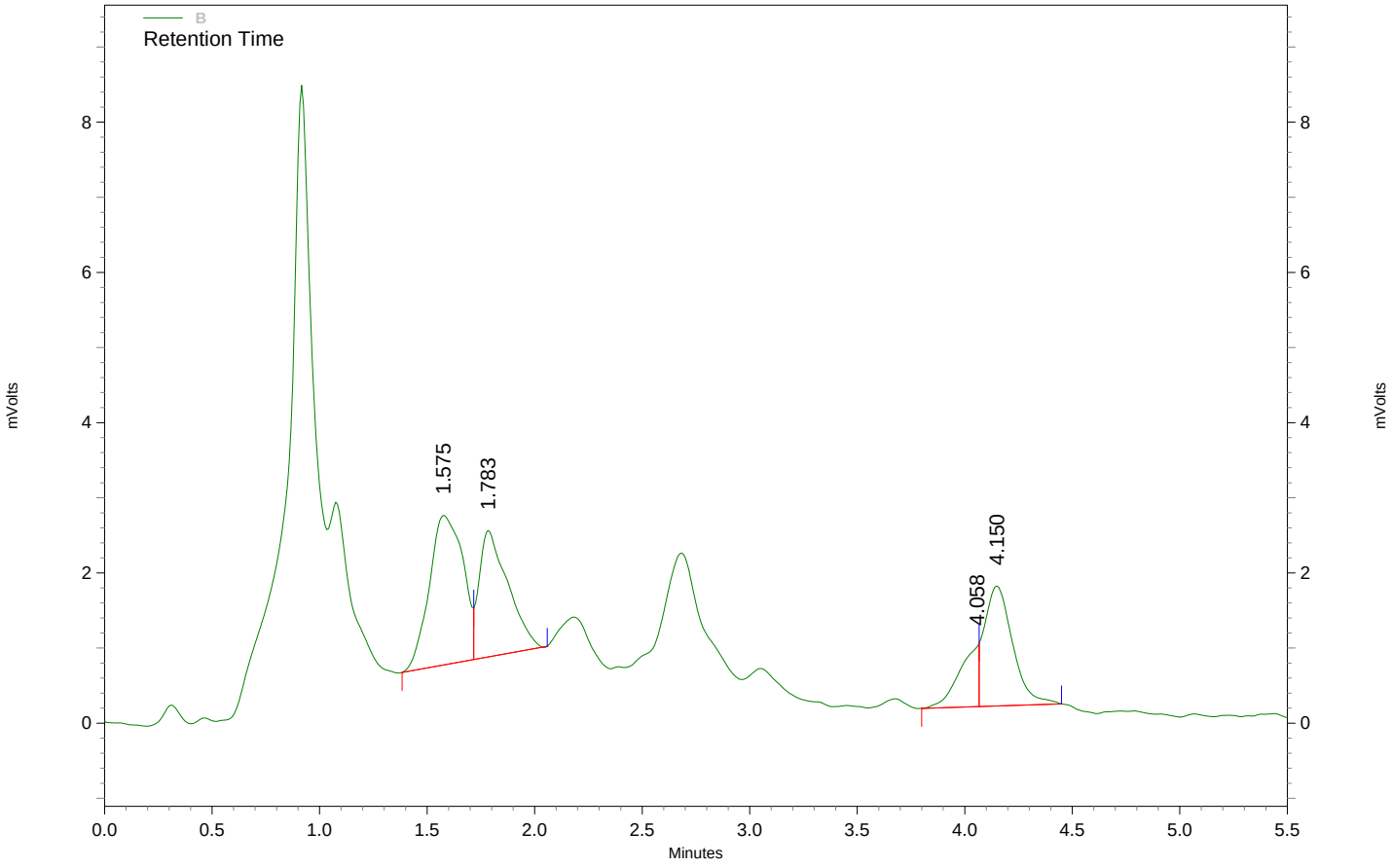
After Manual Integration

JJY
12/30/2010

RED
12/30/2010

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\NQ\121610NQ-primary\008.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121610NQ-primary.met
Sample ID: 870201 dup.
Acquired: Dec 16, 2010 10:05:02
Data Summary: Reasons #3 and #4 apply to data. The baseline integration was adjusted to follow the chromatogram baseline and a split was added to remove an interfering shoulder from the surrogate peak. RED 12/16/2010



B Results

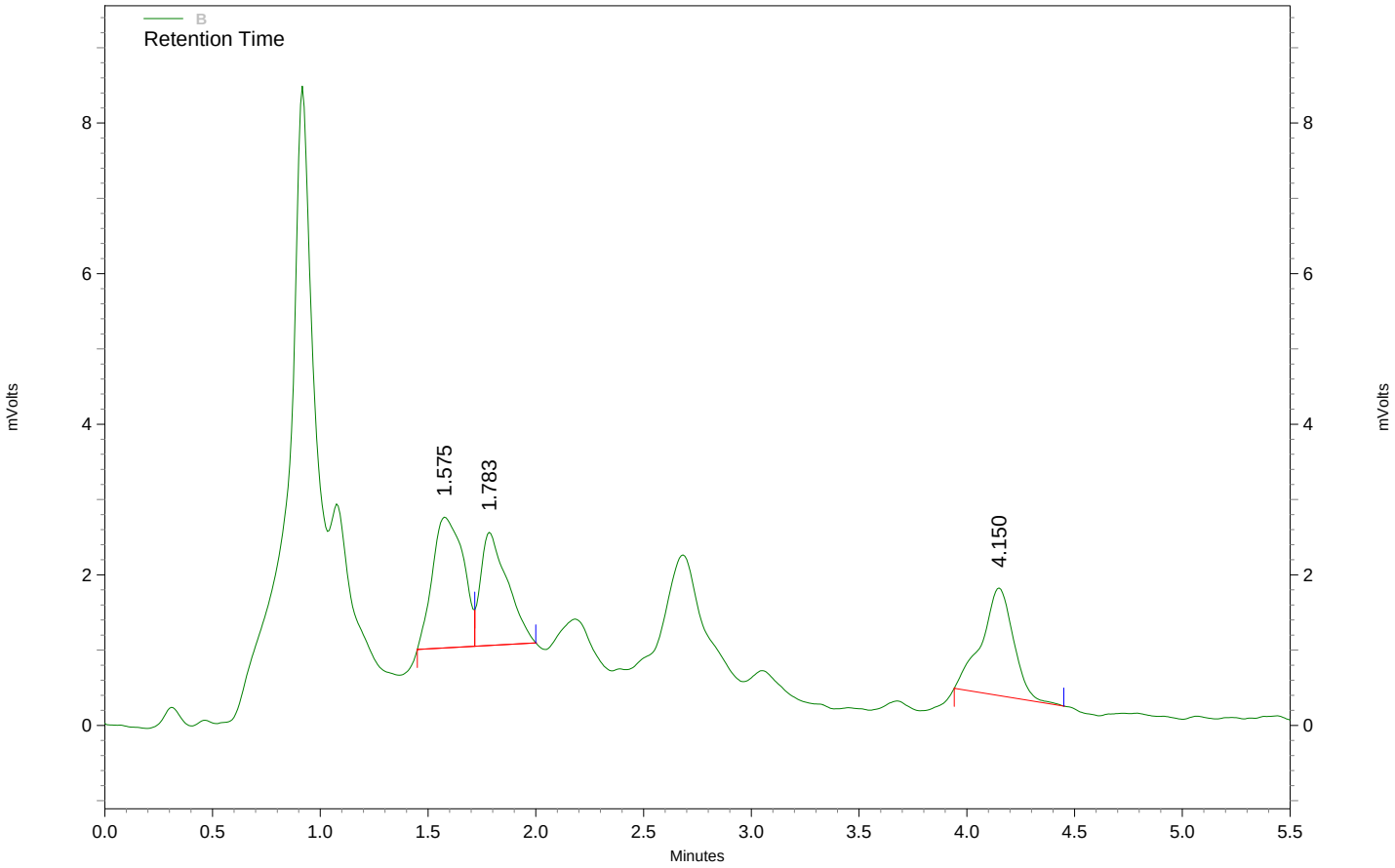
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.575	21681	**0.173**
12-DNB (SSTD)	4.150	14571	**108.229**

Before Manual Integration

JJY
12/30/2010
RED
12/30/2010

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\NQ\101610NQ-primary\008.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121610NQ-primary.met
Sample ID: 870201 dup.
Acquired: Dec 16, 2010 10:05:02
Data Summary: {Data Description}



B Results

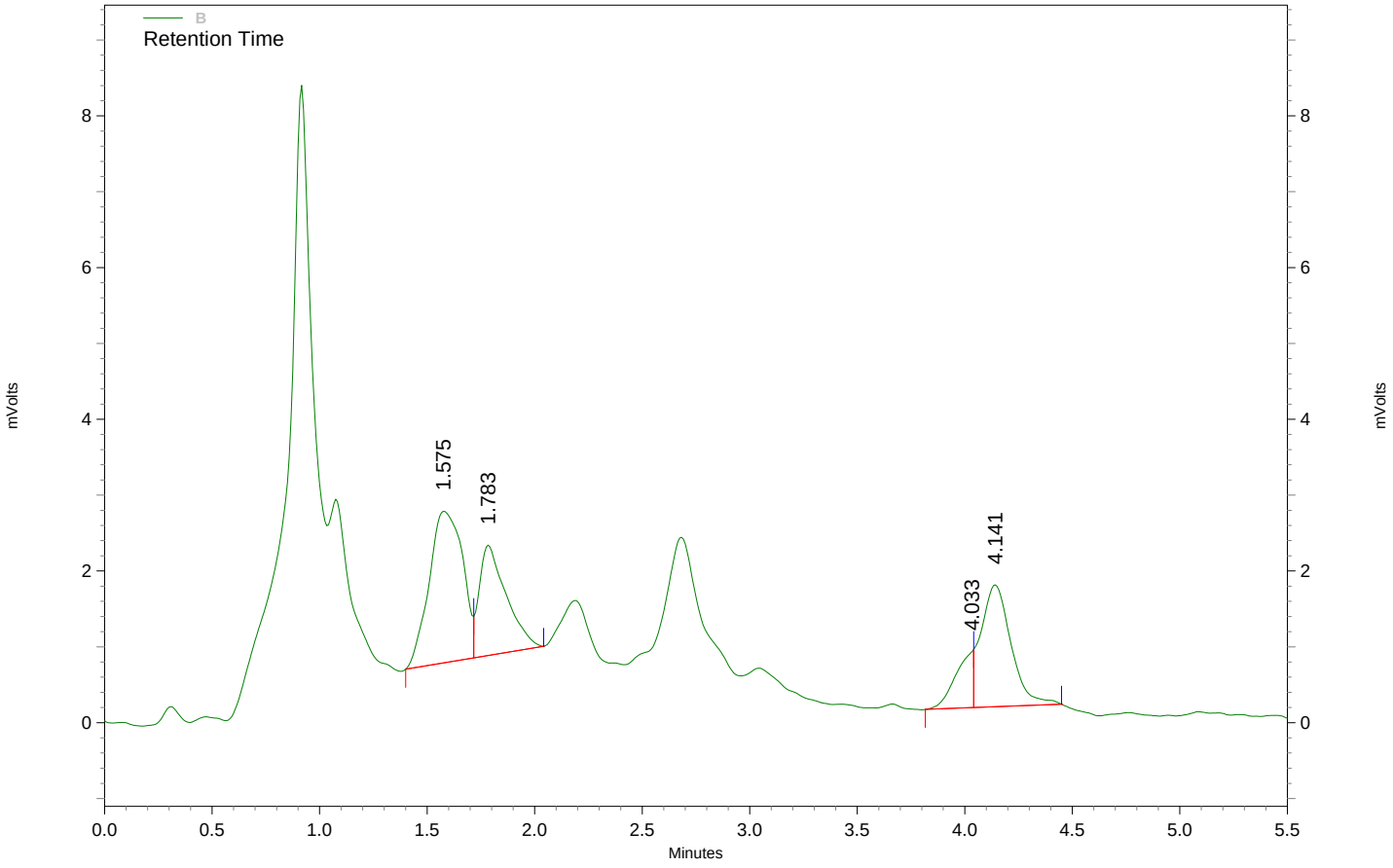
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.575	17281	**0.135**
12-DNB (SSTD)	4.150	14706	**109.230**

After Manual Integration

JJY
12/30/2010
RED
12/30/2010

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\NQ\121610NQ-primary\009.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121610NQ-primary.met
Sample ID: 870201 trip.
Acquired: Dec 16, 2010 10:12:48
Data Summary: Reasons #3 and #4 apply to data. The baseline integration was adjusted to follow the chromatogram baseline and a split was added to remove an interfering shoulder from the surrogate peak. RED 12/16/2010



B Results

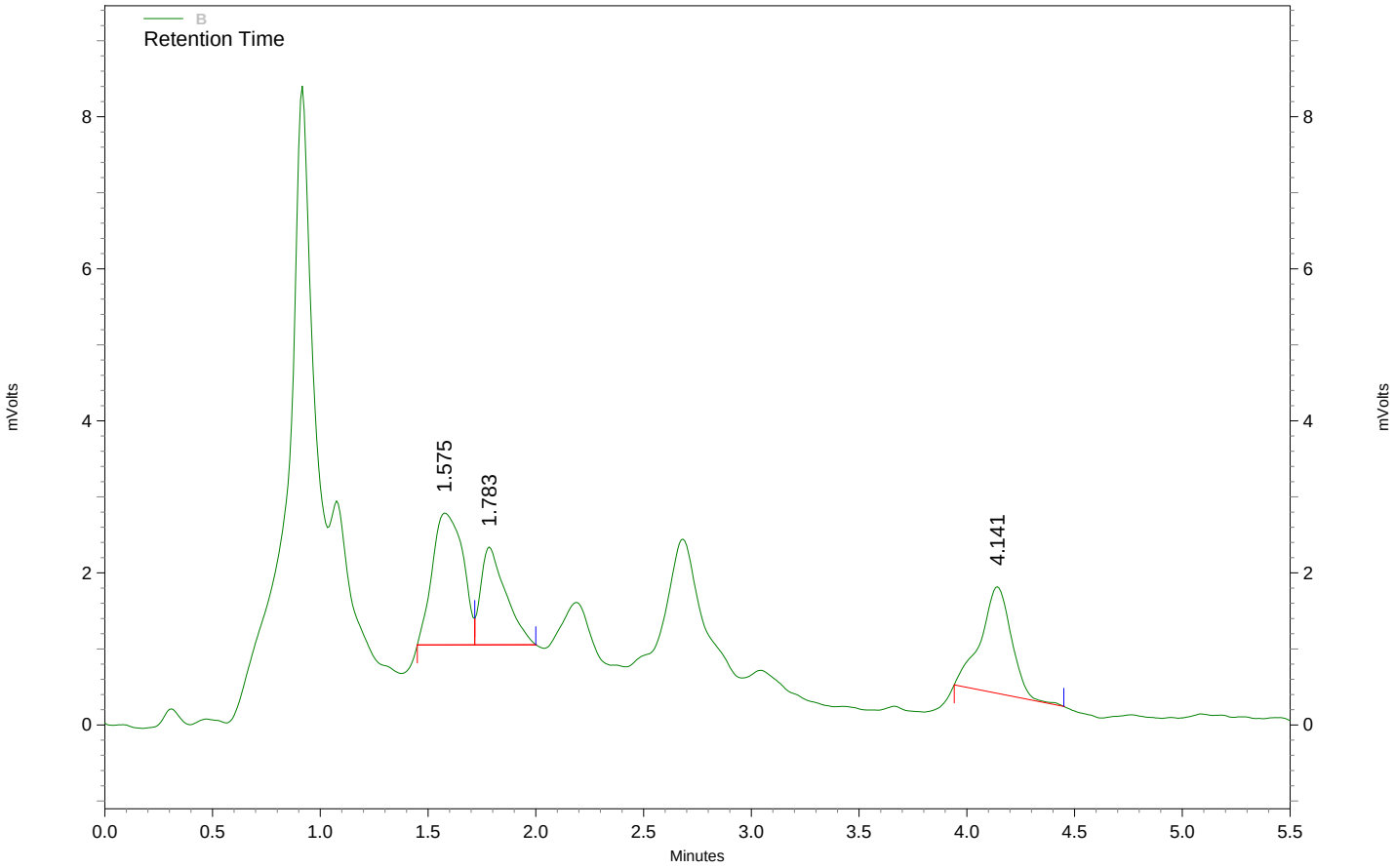
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.575	21670	**0.172**
12-DNB (SSTD)	4.141	15578	**115.694**

Before Manual Integration

JJY
12/30/2010
RED
12/30/2010

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\NQ\101610NQ-primary\009.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121610NQ-primary.met
Sample ID: 870201 trip.
Acquired: Dec 16, 2010 10:12:48
Data Summary: {Data Description}



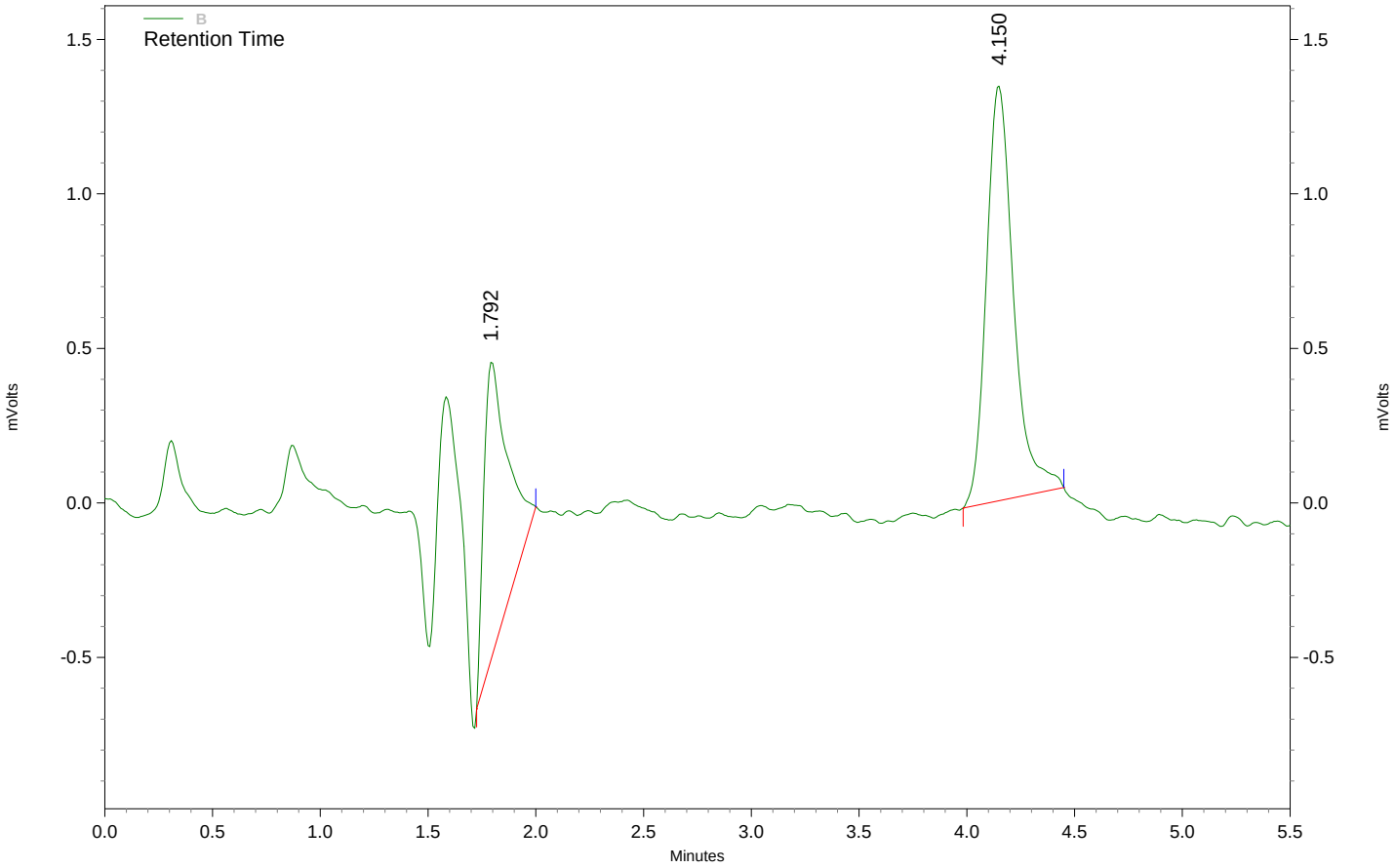
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.575	17108	**0.134**
12-DNB (SSTD)	4.141	13921	**103.411**

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121610NQ-primary\016.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121610NQ-primary.met
Sample ID: 72414,877978,,mbs
Acquired: Dec 16, 2010 11:21:33
Data Summary: {Data Description}



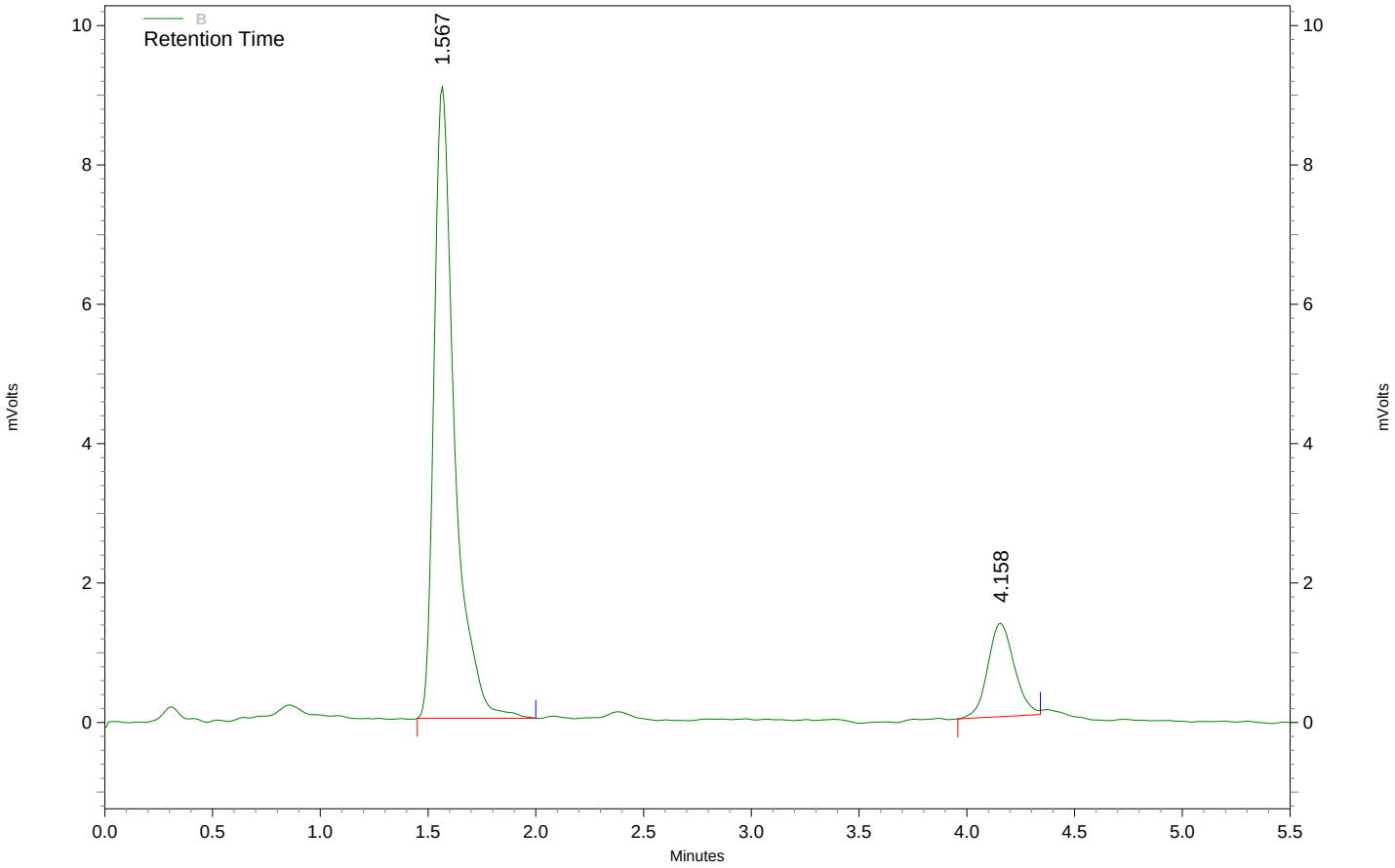
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ			**0.000 BDL**
12-DNB (SSTD)	4.150	11765	**87.431**

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121610NQ-primary\017.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121610NQ-primary.met
Sample ID: 72414,877979,,lcss
Acquired: Dec 16, 2010 11:29:21
Data Summary: {Data Description}



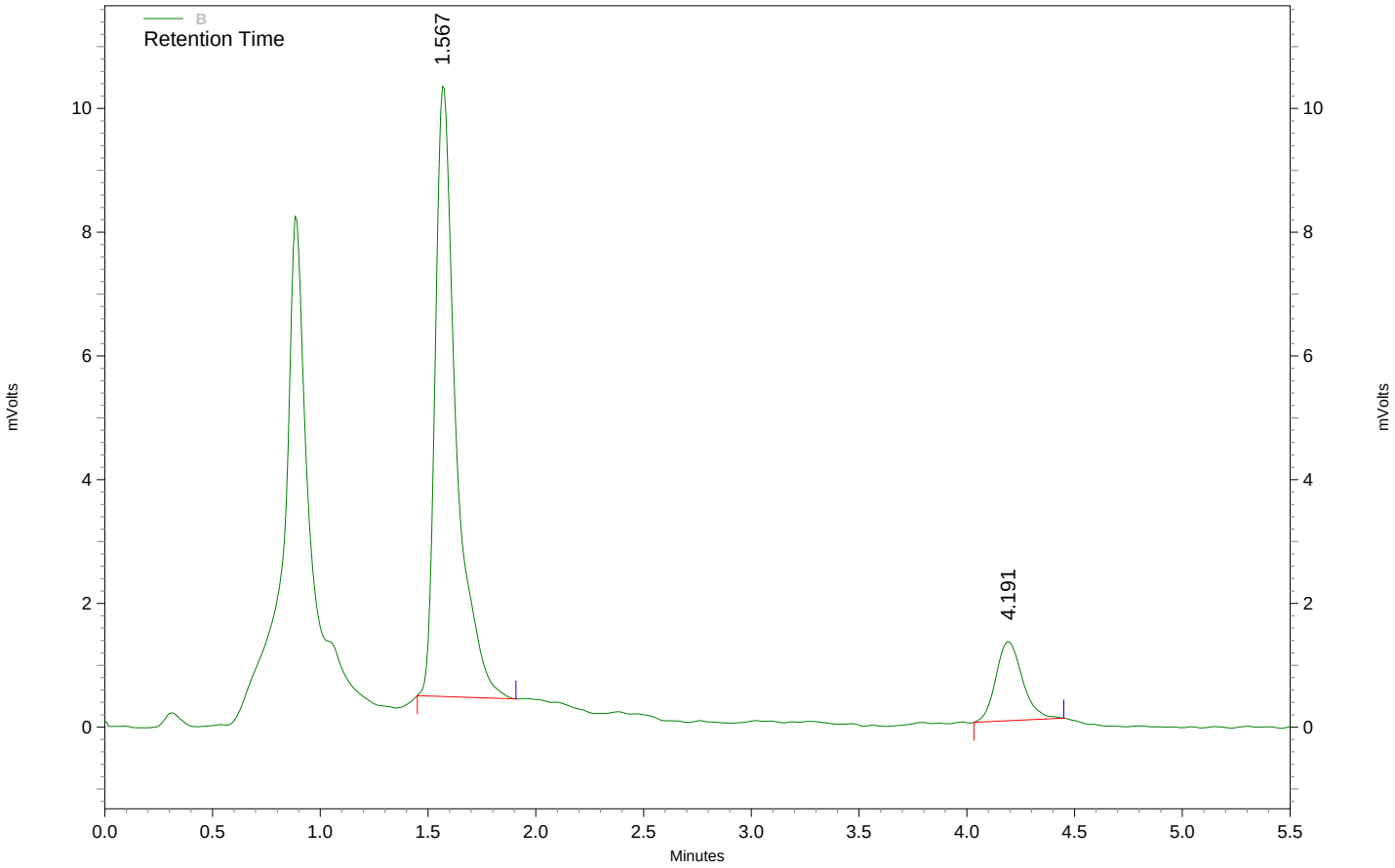
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.567	60270	**0.500**
12-DNB (SSTD)	4.158	11496	**85.437**

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121610NQ-primary\019.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121610NQ-primary.met
Sample ID: 72414,877981,,mss
Acquired: Dec 16, 2010 11:44:55
Data Summary: {Data Description}



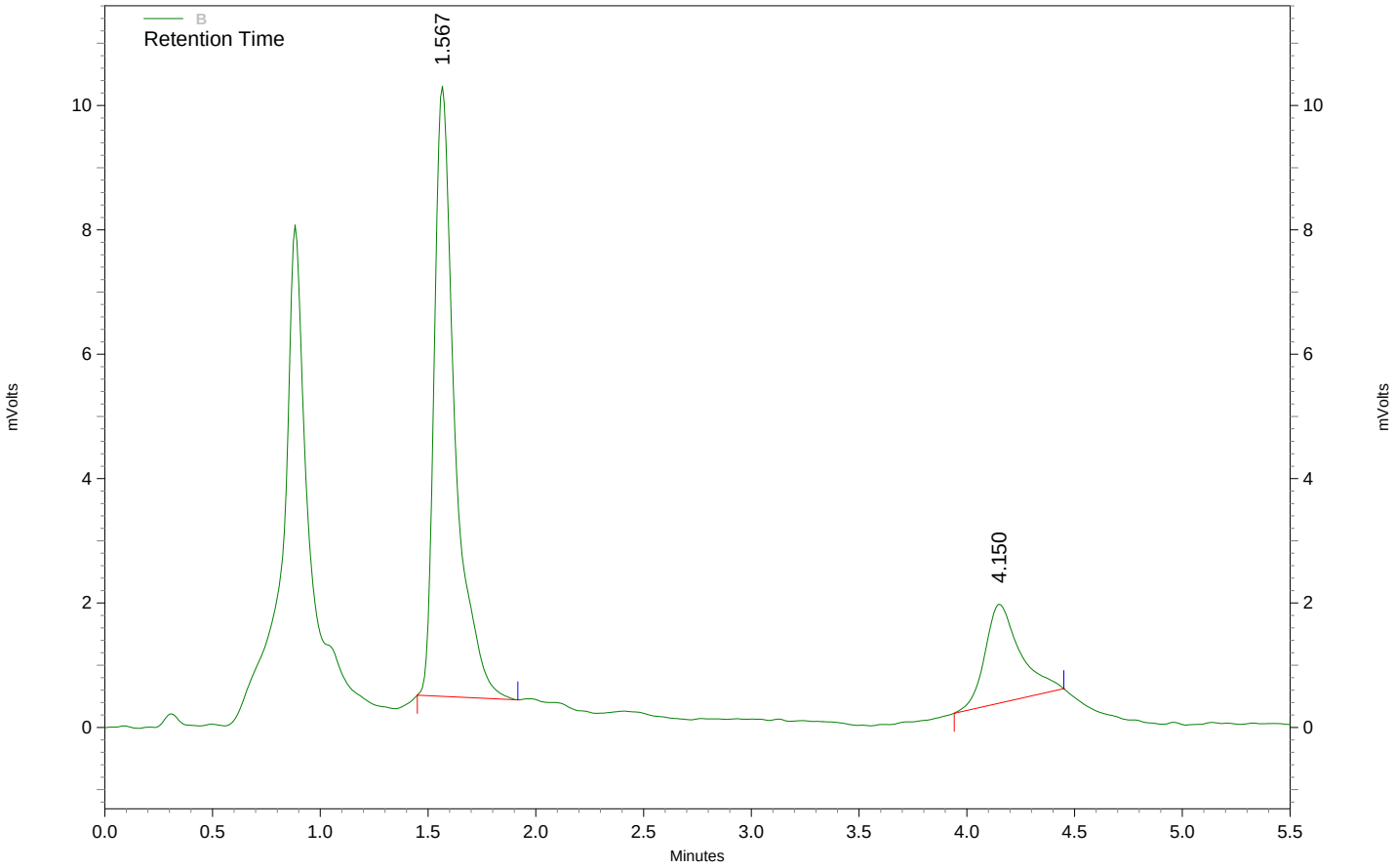
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.567	66757	**0.555**
12-DNB (SSTD)	4.191	10948	**81.375**

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121610NQ-primary\020.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121610NQ-primary.met
Sample ID: 72414,877982,,msds
Acquired: Dec 16, 2010 11:52:41
Data Summary: {Data Description}



B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.567	65940	**0.548**
12-DNB (SSTD)	4.150	18008	**133.705**

Triplicate Sample Analysis Relative Standard Deviation Calculations

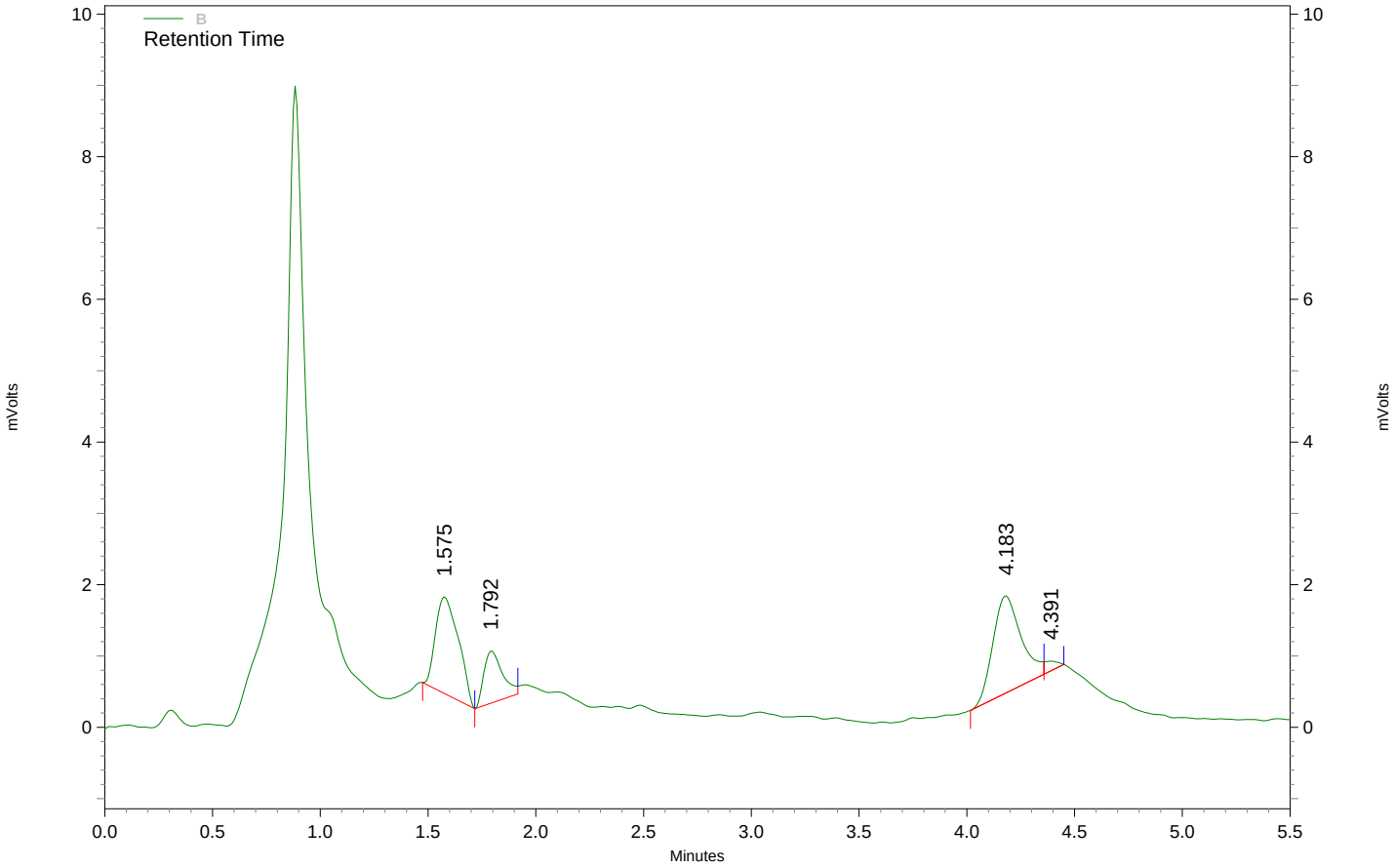
Analyst: Becky Duranceau
Sample ID: 870189
Analysis Date: 12/17/2010
Data path: C:\Instarch\Data\HPLC 2\Nitroguanidine_NQ\121610NQic-confirm

	Analyte Concentration (ug/mL)						
Analyte	Parent Sample	Duplicate Sample	Triplicate Sample	Mean Conc. (ug/mL)	Standard Deviation	%RSD	Flag (>20% RSD)
Nitroguanidine (NQ)	0.028	0.03	0.023	0.027	0.0036056	13.35389	
1.2-Dinitrobenzene (SSTD)	89.683	93.065	87.734	90.1606667	2.6974088	2.99178	

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121610NQ-primary\021.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121610NQ-primary.met
Sample ID: 870189 dup
Acquired: Dec 16, 2010 12:00:28
Data Summary: {Data Description}



B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.575	10098	**0.074**
12-DNB (SSTD)	4.183	12396	**92.108**

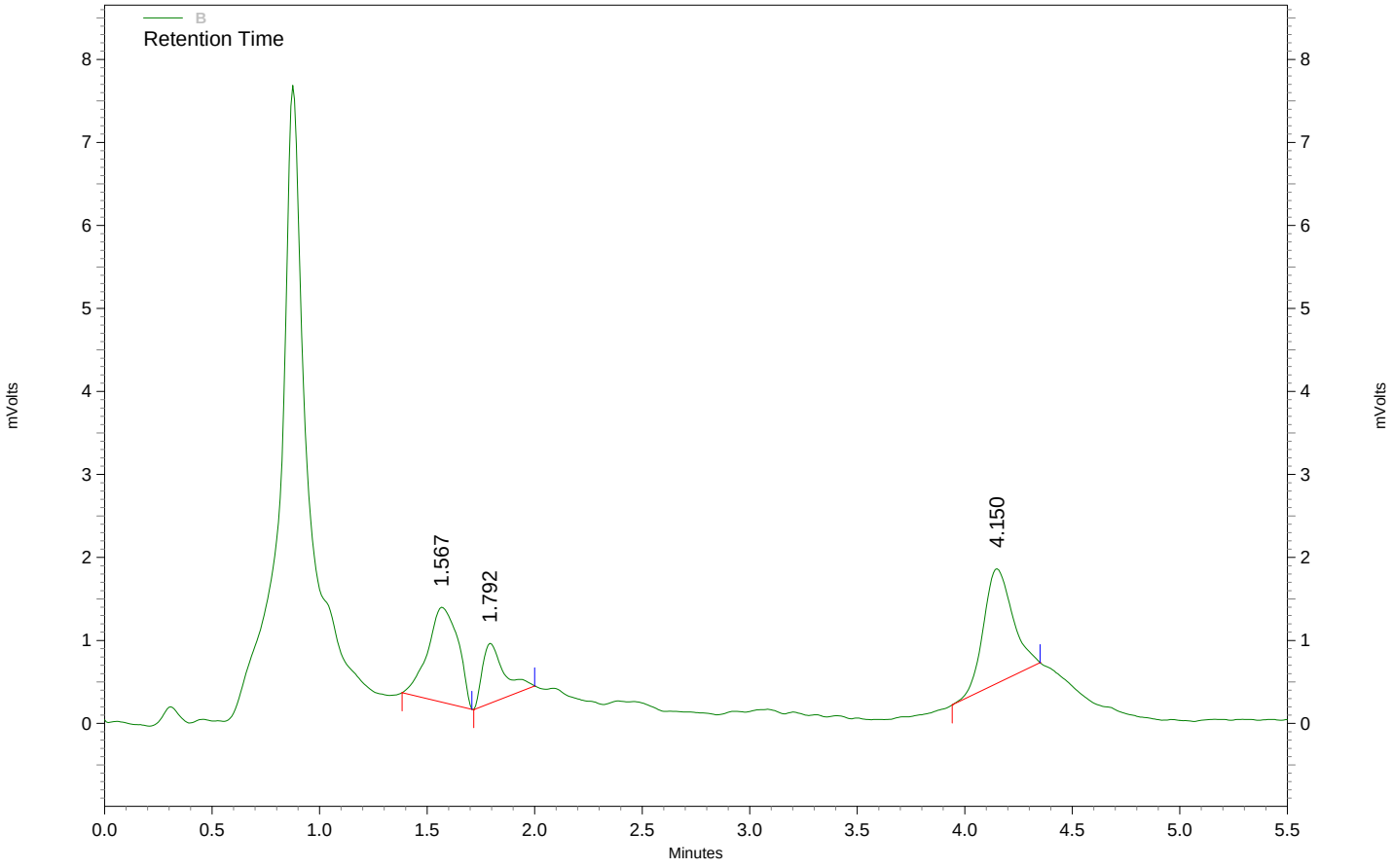
After Manual Integration

JJY
12/30/2010

RED
12/30/2010

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\NQ\121610NQ-primary\022.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121610NQ-primary.met
Sample ID: 870189 trip
Acquired: Dec 16, 2010 12:08:19
Data Summary: Reason #4 applies to data. The integration baseline was adjusted to follow the chromatogram baseline. RED 12/16/2010



B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.567	11300	**0.084**
12-DNB (SSTD)	4.150	13017	**96.711**

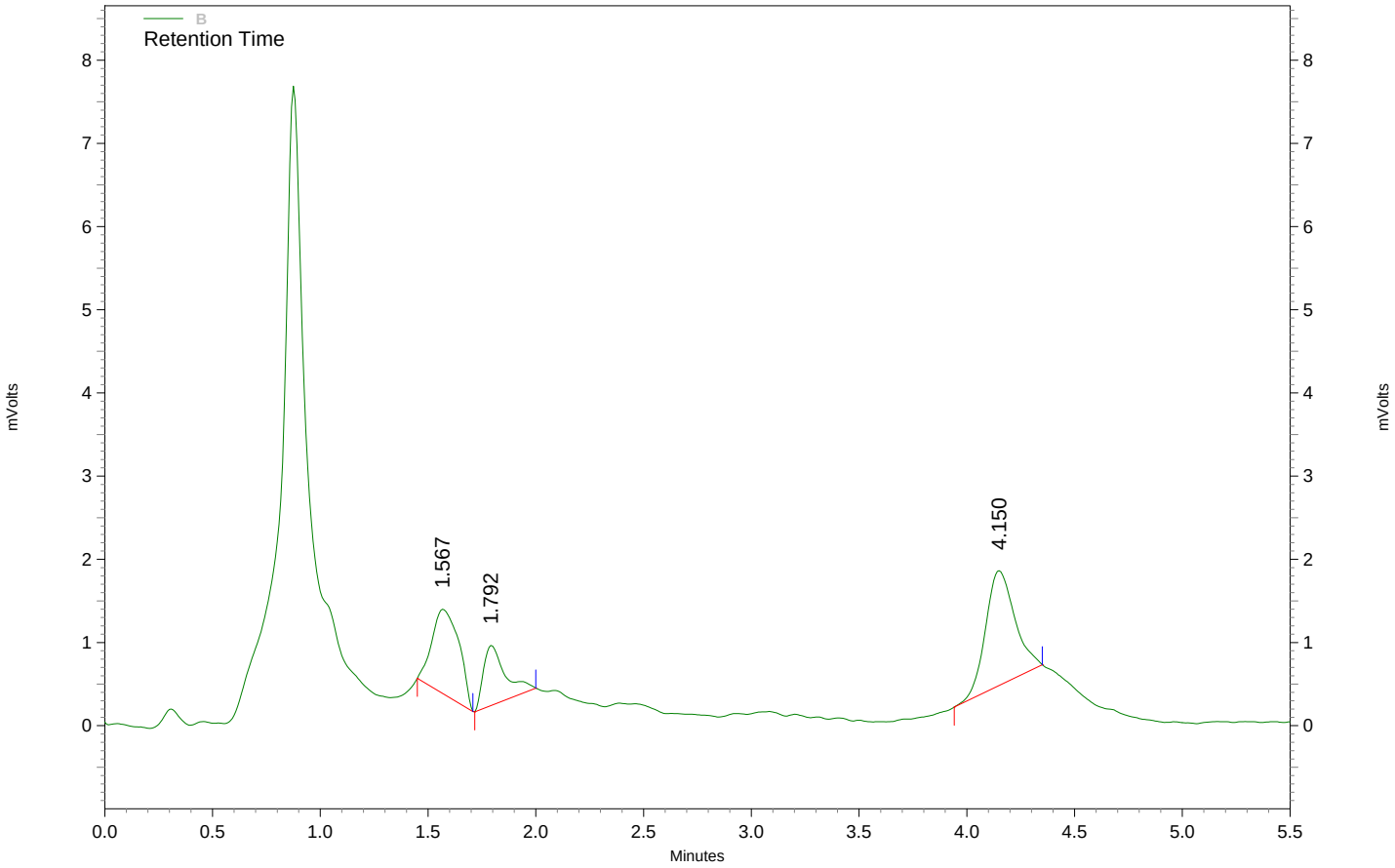
Before Manual Integration

JJY
12/30/2010

RED
12/30/2010

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\NQ\101610NQ-primary\022.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121610NQ-primary.met
Sample ID: 870189 trip
Acquired: Dec 16, 2010 12:08:19
Data Summary: {Data Description}



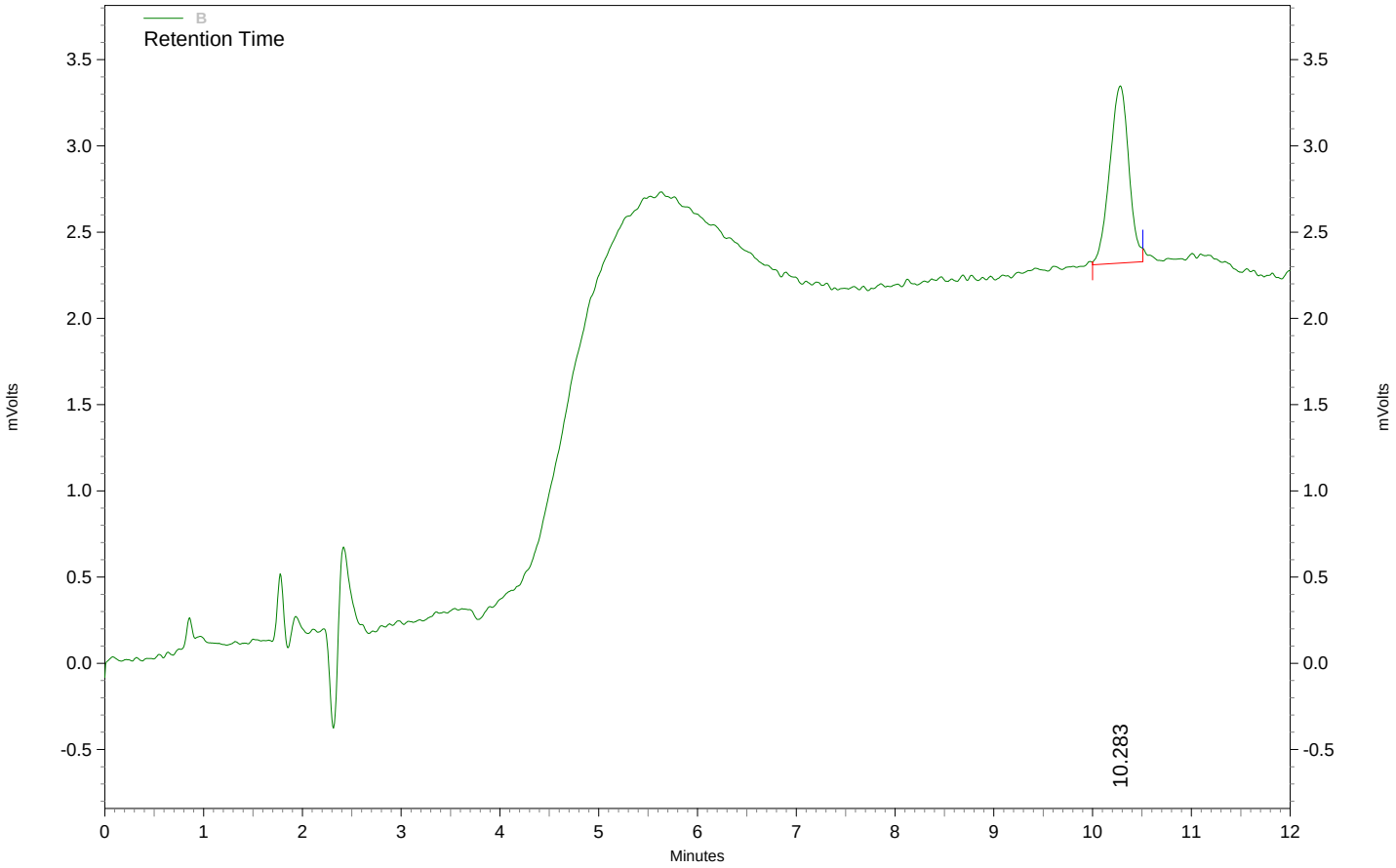
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.567	9018	**0.065**
12-DNB (SSTD)	4.150	13017	**96.711**

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\011.dat
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
User ID: red
Sample ID: 72412,875959,,mbs
Acquired: Dec 16, 2010 21:52:19
Data summary: {Data Description}



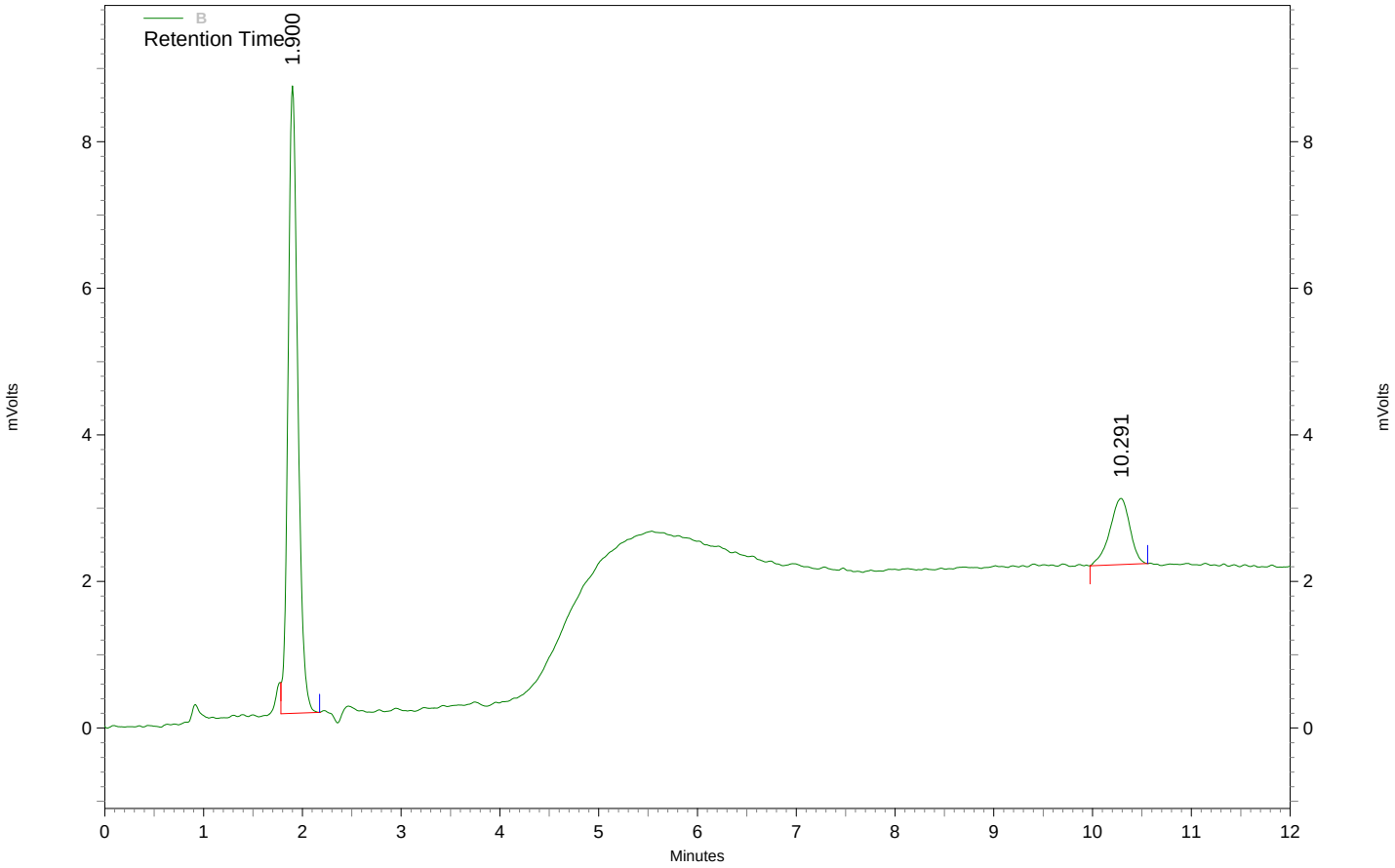
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ			**0.000 BDL**
12-DNB (SSTD)	10.283	13850	**98.346**

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\012.dat
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
User ID: red
Sample ID: 72412,875960,,lcss
Acquired: Dec 16, 2010 22:06:37
Data summary: {Data Description}



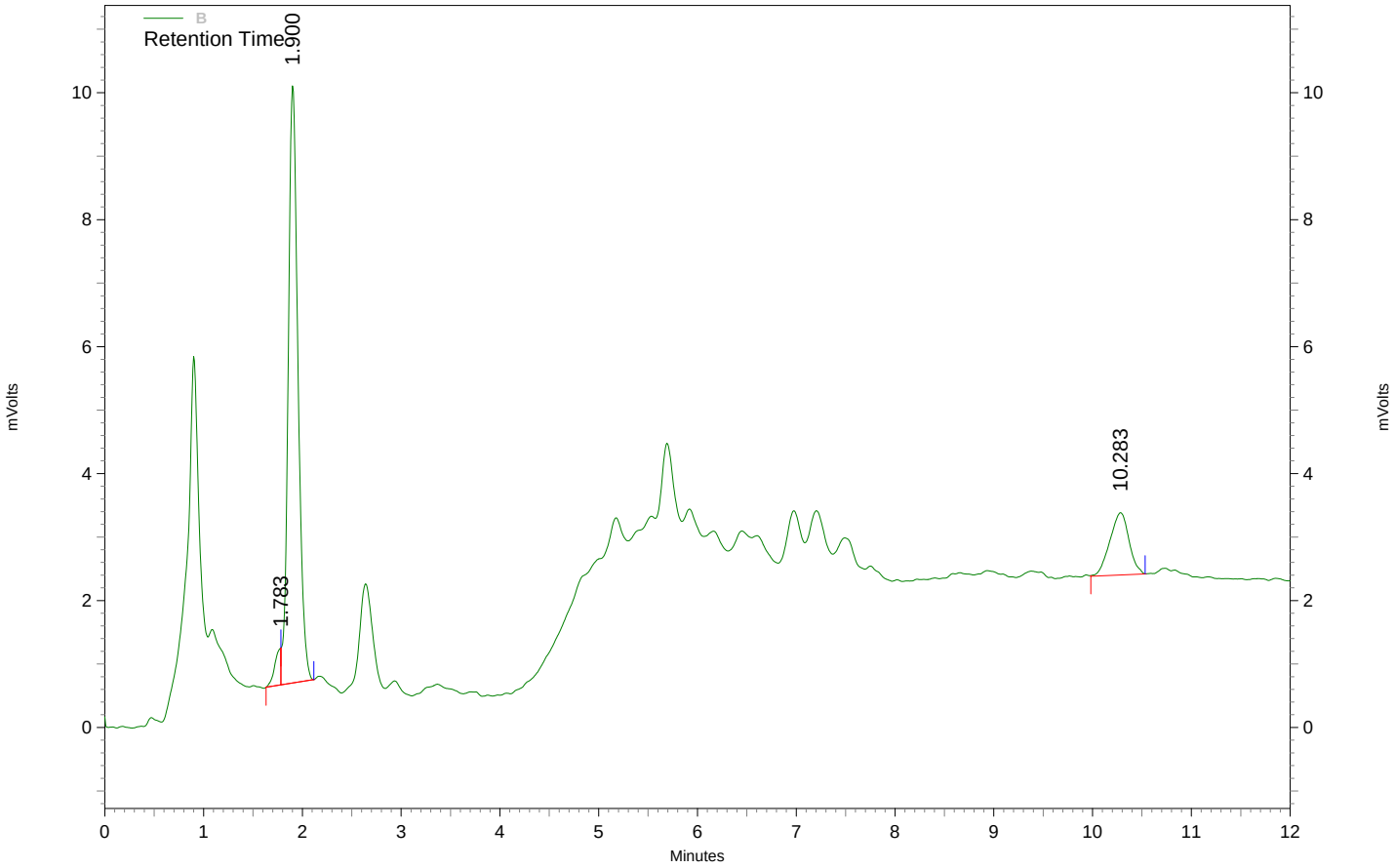
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.900	58850	**0.501**
12-DNB (SSTD)	10.291	12743	**90.414**

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\014.dat
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
User ID: red
Sample ID: 72412,875962,,mss
Acquired: Dec 16, 2010 22:35:12
Data summary: {Data Description}



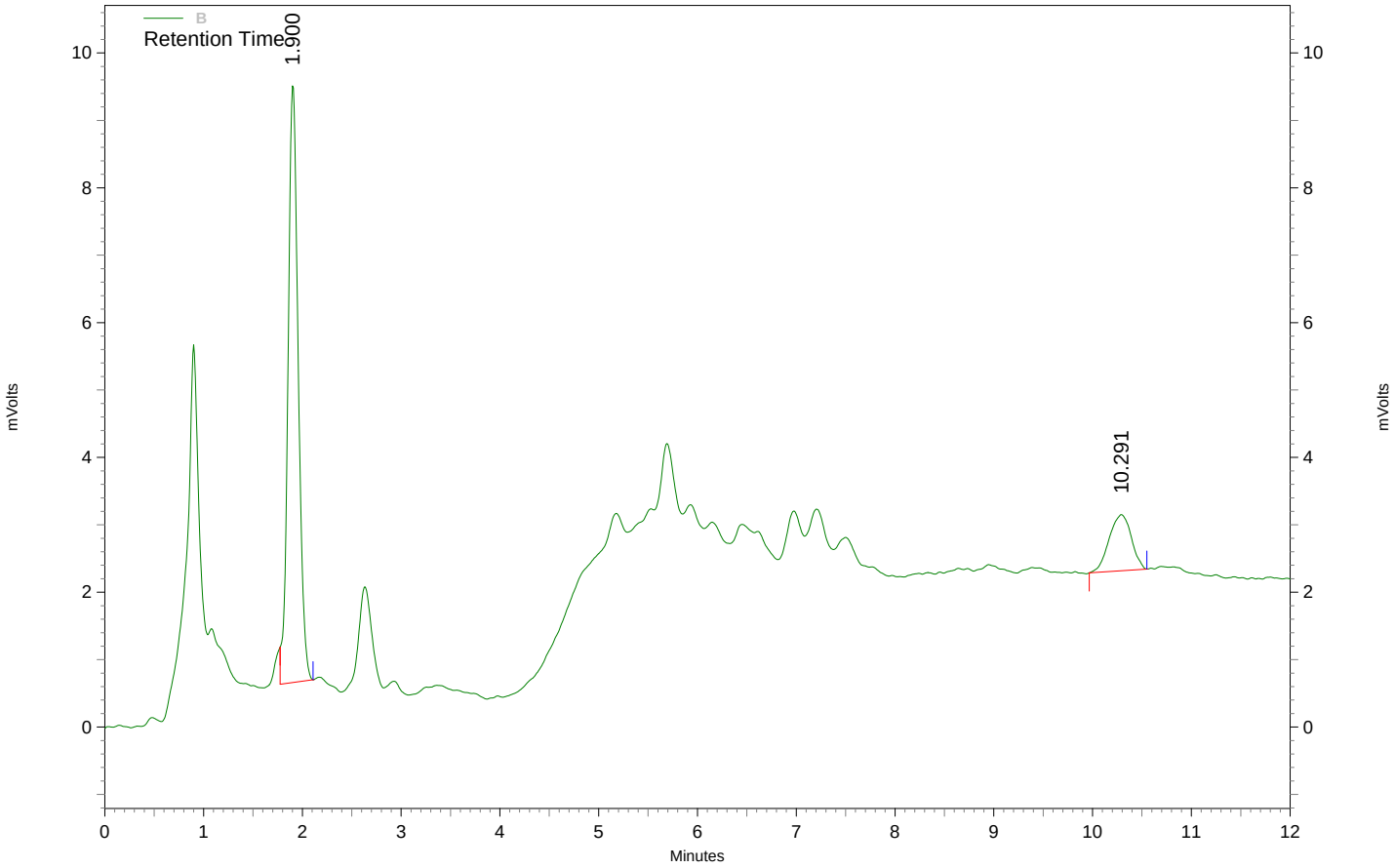
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.900	64842	**0.551**
12-DNB (SSTD)	10.283	13209	**93.753**

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\015.dat
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
User ID: red
Sample ID: 72412,875963,,msds
Acquired: Dec 16, 2010 22:49:29
Data summary: {Data Description}



B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.900	63550	**0.540**
12-DNB (SSTD)	10.291	12989	**92.177**

Triplicate Sample Analysis Relative Standard Deviation Calculations

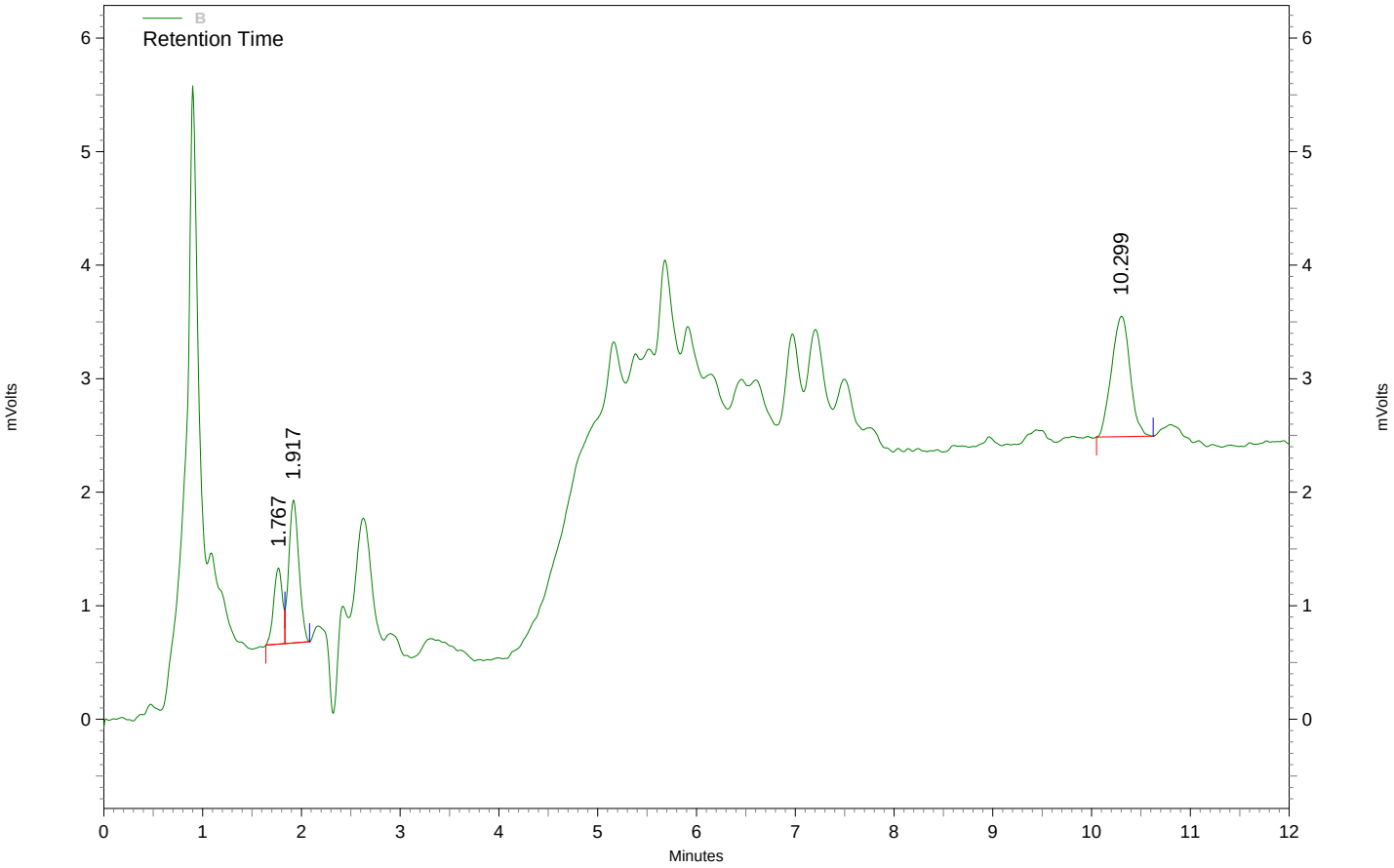
Analyst: Becky Duranceau
Sample ID: 870201
Analysis Date: 12/16/2010
Data path: C:\Instarch\Data\HPLC 2\Nitroguanidine_NQ\121610NQic-confirm

	Analyte Concentration (ug/mL)						
Analyte	Parent Sample	Duplicate Sample	Triplicate Sample	Mean Conc. (ug/mL)	Standard Deviation	%RSD	Flag (>20% RSD)
Nitroguanidine (NQ)	0.077	0.08	0.075	0.07733333	0.0025166	3.254239	
1.2-Dinitrobenzene (SSTD)	96.899	97.808	98.632	97.7796667	0.8668474	0.886531	

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\016.dat
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
User ID: red
Sample ID: 870201 dup.
Acquired: Dec 16, 2010 23:03:45
Data summary: {Data Description}



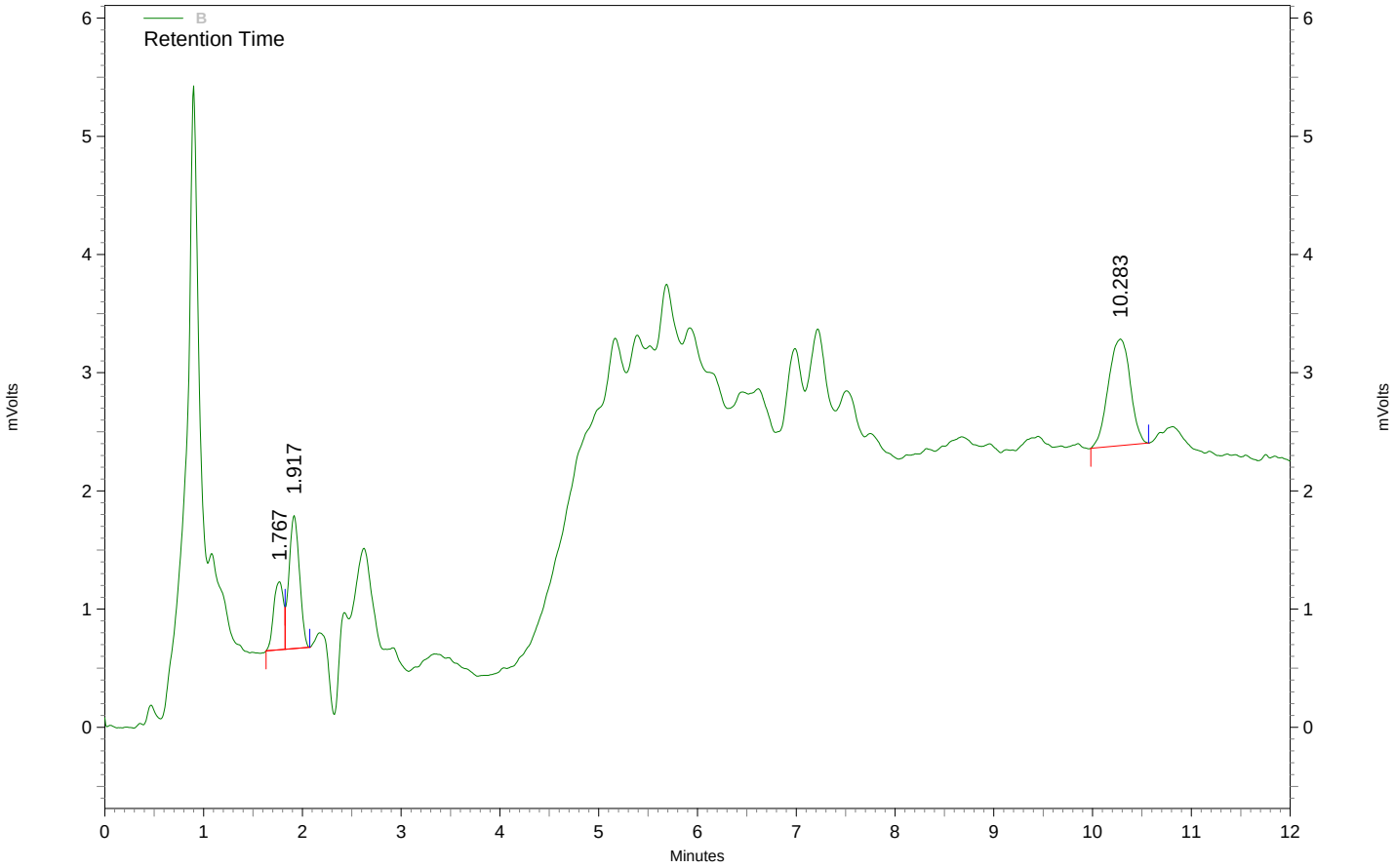
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.917	8955	**0.080**
12-DNB (SSTD)	10.299	13775	**97.808**

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\017.dat
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
User ID: red
Sample ID: 870201 trip.
Acquired: Dec 16, 2010 23:18:03
Data summary: {Data Description}



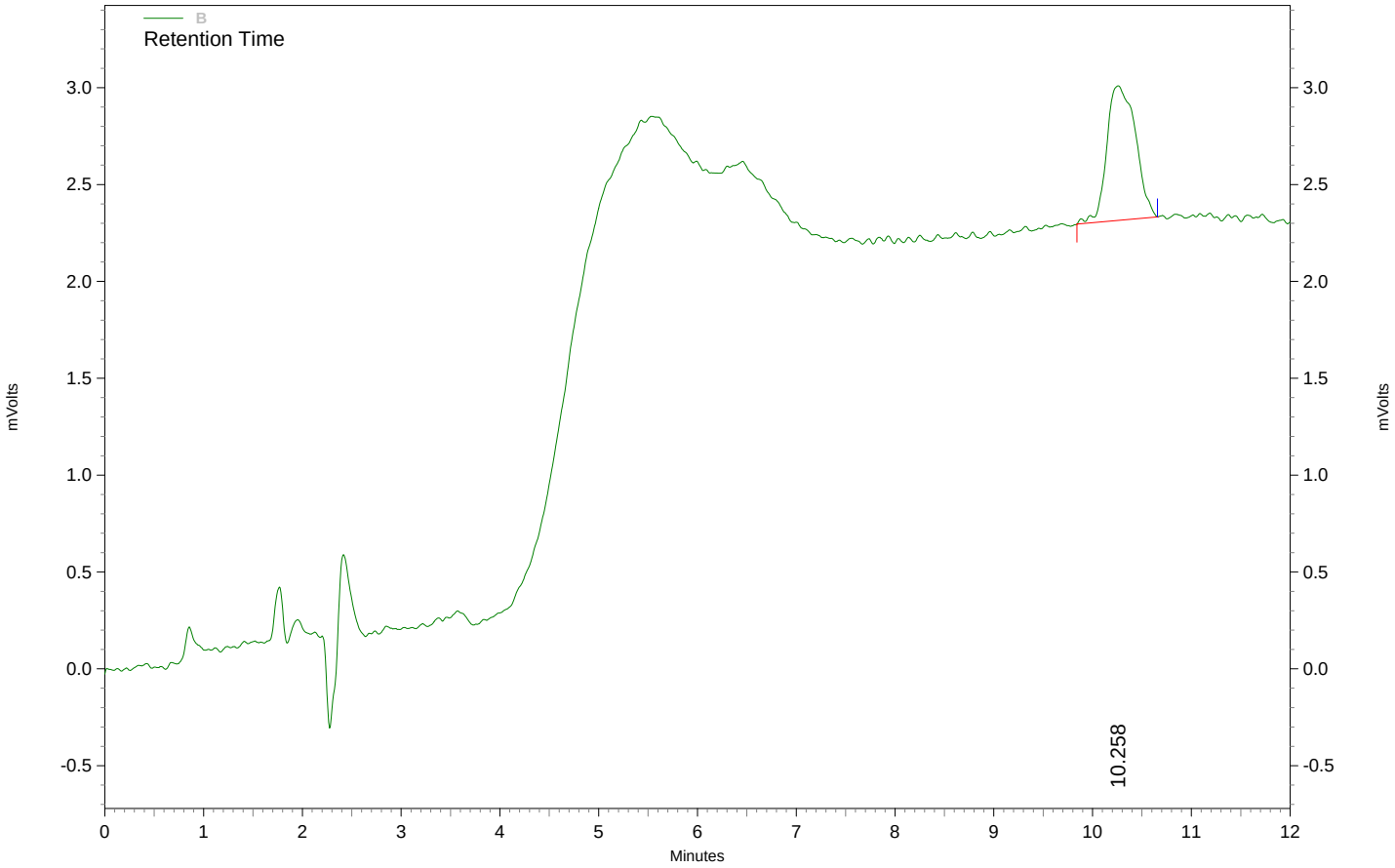
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.917	8345	**0.075**
12-DNB (SSTD)	10.283	13890	**98.632**

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\024.dat
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
User ID: red
Sample ID: 72414,877978,,mbs
Acquired: Dec 17, 2010 00:58:09
Data summary: {Data Description}



B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ			**0.000 BDL**
12-DNB (SSTD)	10.258	14018	**99.550**

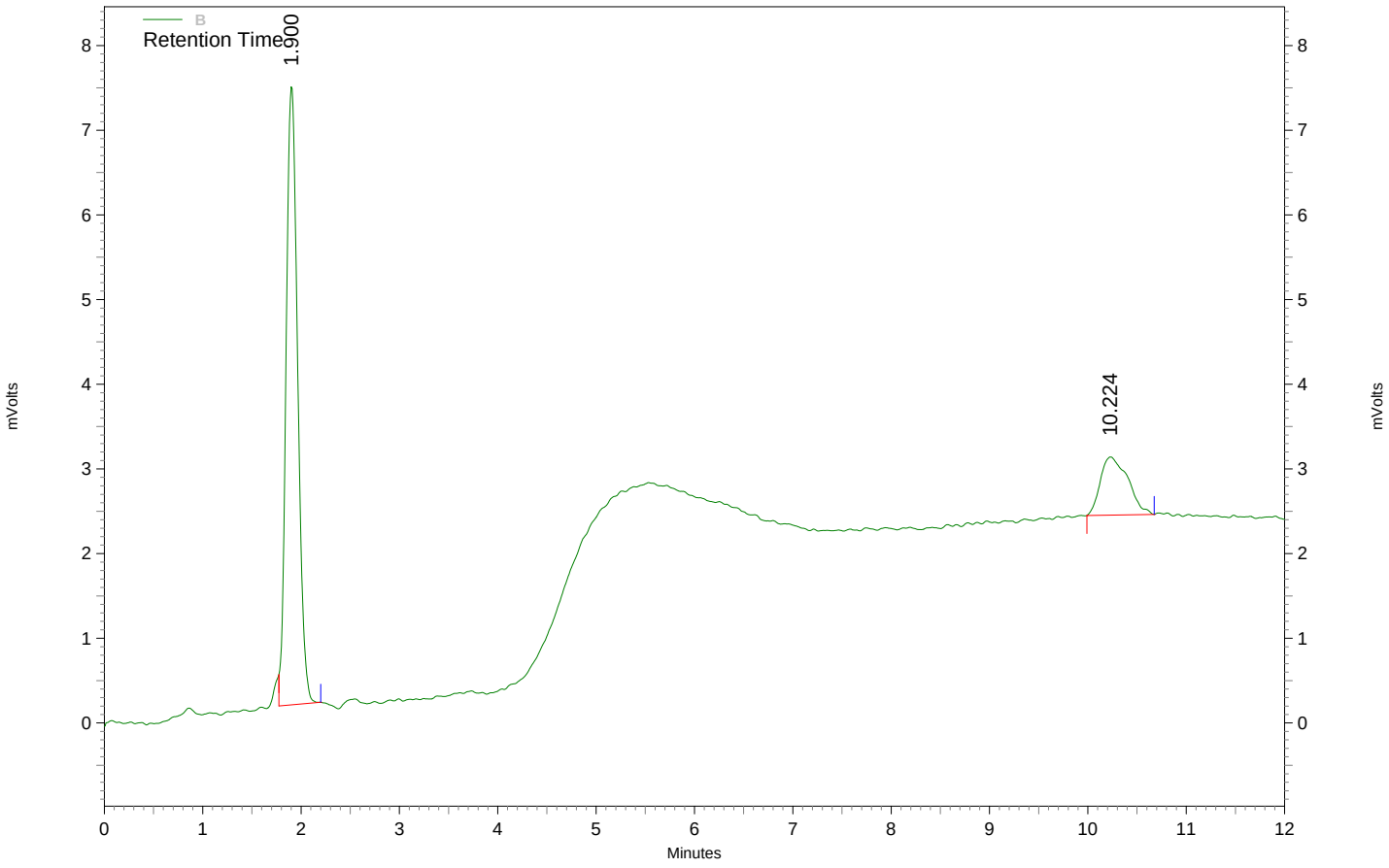
After Manual Integration

JJY
12/30/2010

RED
12/30/2010

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\025.dat
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
User ID: red
Sample ID: 72414,877979,,lcss
Acquired: Dec 17, 2010 01:12:25
Data summary: Reason #3 applies to data. A split was added to separate nitroguanidine (NQ) from the neighboring solven peak. RED 12/17/2010



B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.900	59795	**0.509**
12-DNB (SSTD)	10.224	13344	**94.720**

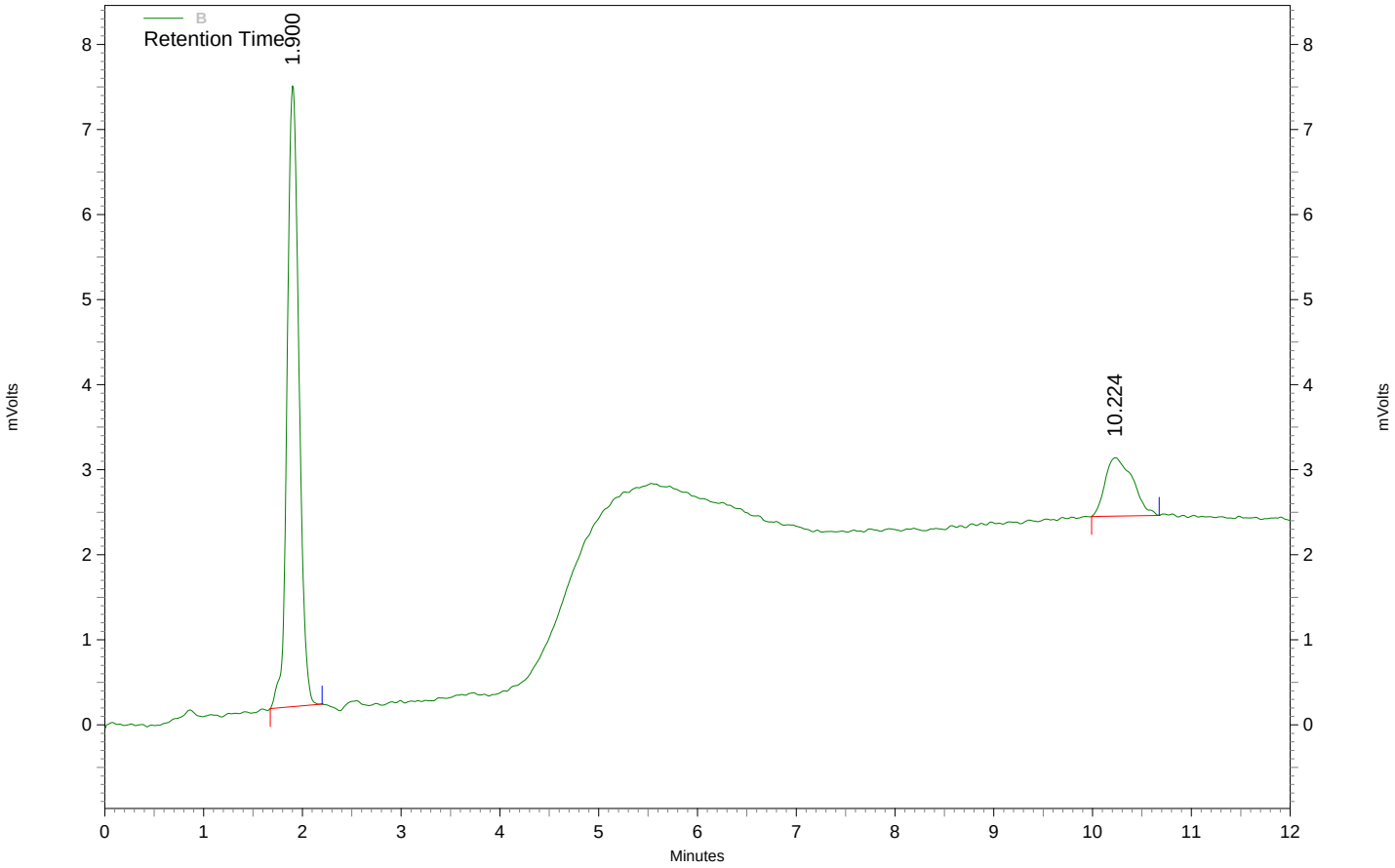
Before Manual Integration

JJY
12/30/2010

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\025.dat
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
User ID: red
Sample ID: 72414,877979,,lcss
Acquired: Dec 17, 2010 01:12:25
Data summary: {Data Description}



B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.900	60903	**0.518**
12-DNB (SSTD)	10.224	13344	**94.720**

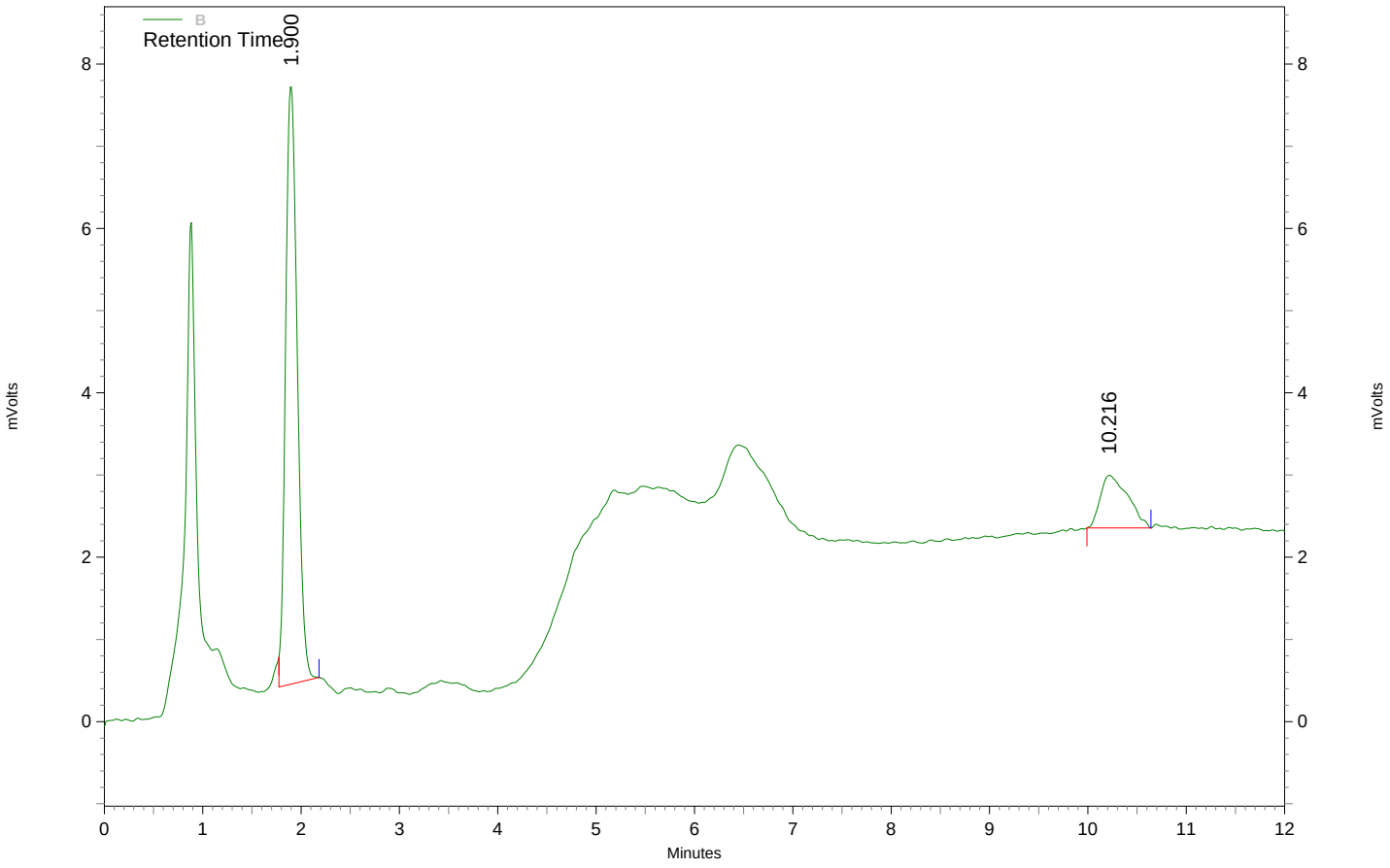
After Manual Integration

JJY
12/30/2010

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\027.dat
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
User ID: red
Sample ID: 72414,877981,,mss
Acquired: Dec 17, 2010 01:41:00
Data summary: Reason #3 applies to data. A split was added to separate nitroguanidine (NQ) from the neighboring solven peak. RED 12/17/2010



B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.900	60256	**0.512**
12-DNB (SSTD)	10.216	12529	**88.881**

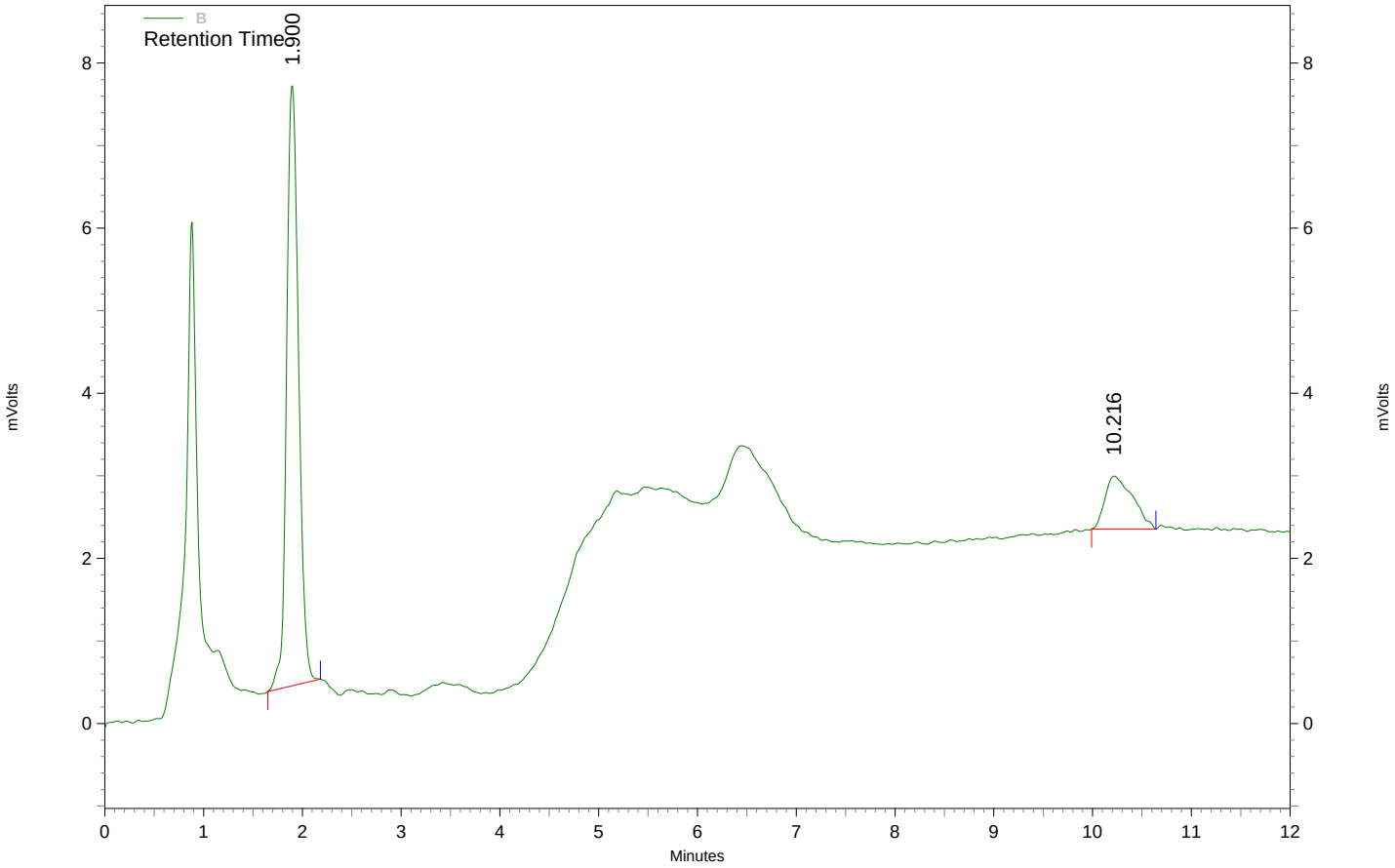
Before Manual Integration

JJY
12/30/2010

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\027.dat
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
User ID: red
Sample ID: 72414,877981,,mss
Acquired: Dec 17, 2010 01:41:00
Data summary: {Data Description}



B Results

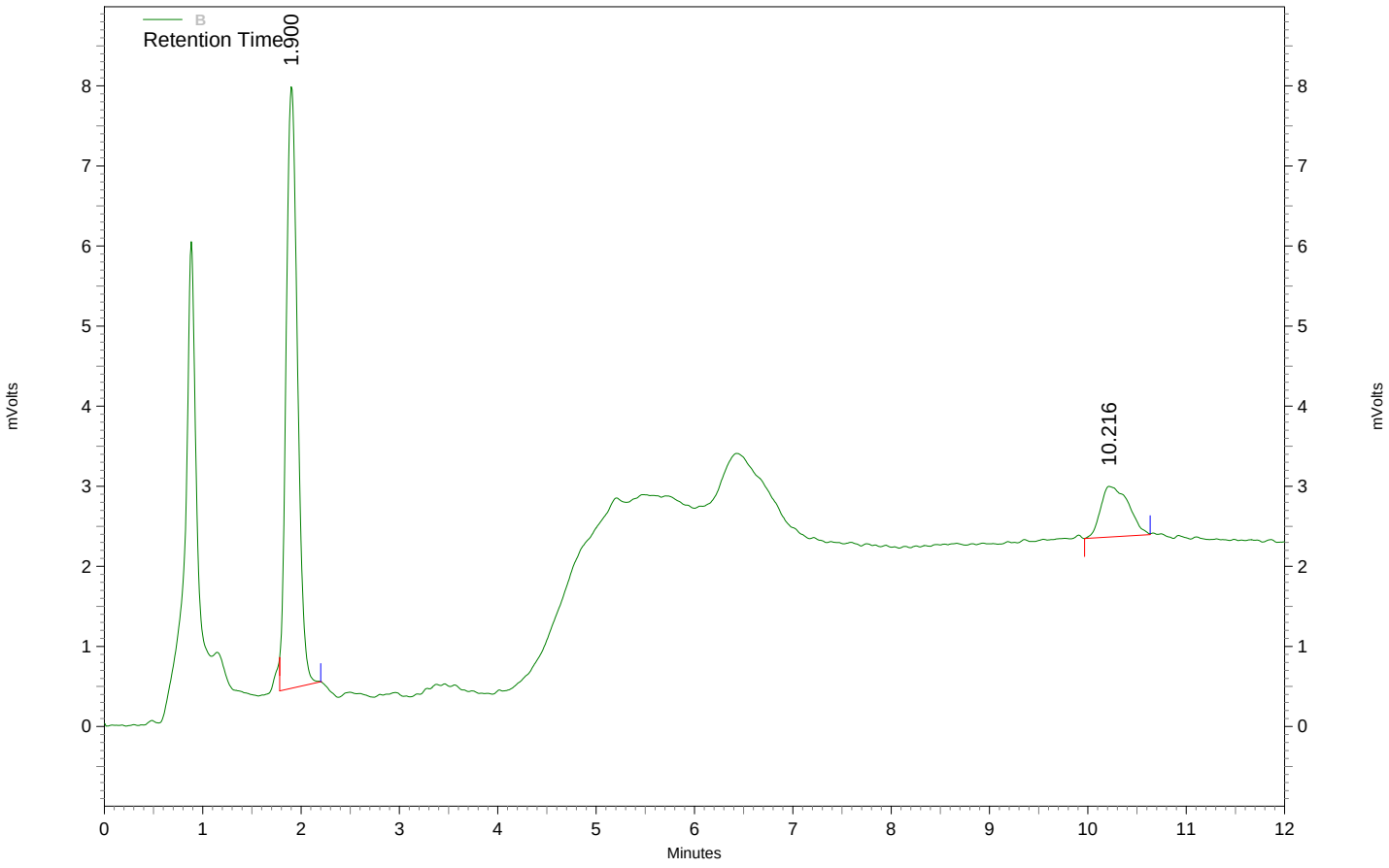
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.900	61355	**0.522**
12-DNB (SSTD)	10.216	12529	**88.881**

After Manual Integration

JJY
12/30/2010
RED
12/30/2010

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\028.dat
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
User ID: red
Sample ID: 72414,877982,,msds
Acquired: Dec 17, 2010 01:55:16
Data summary: Reason #3 applies to data. A split was added to separate nitroguanidine (NQ) from the neighboring solven peak. RED 12/17/2010



B Results

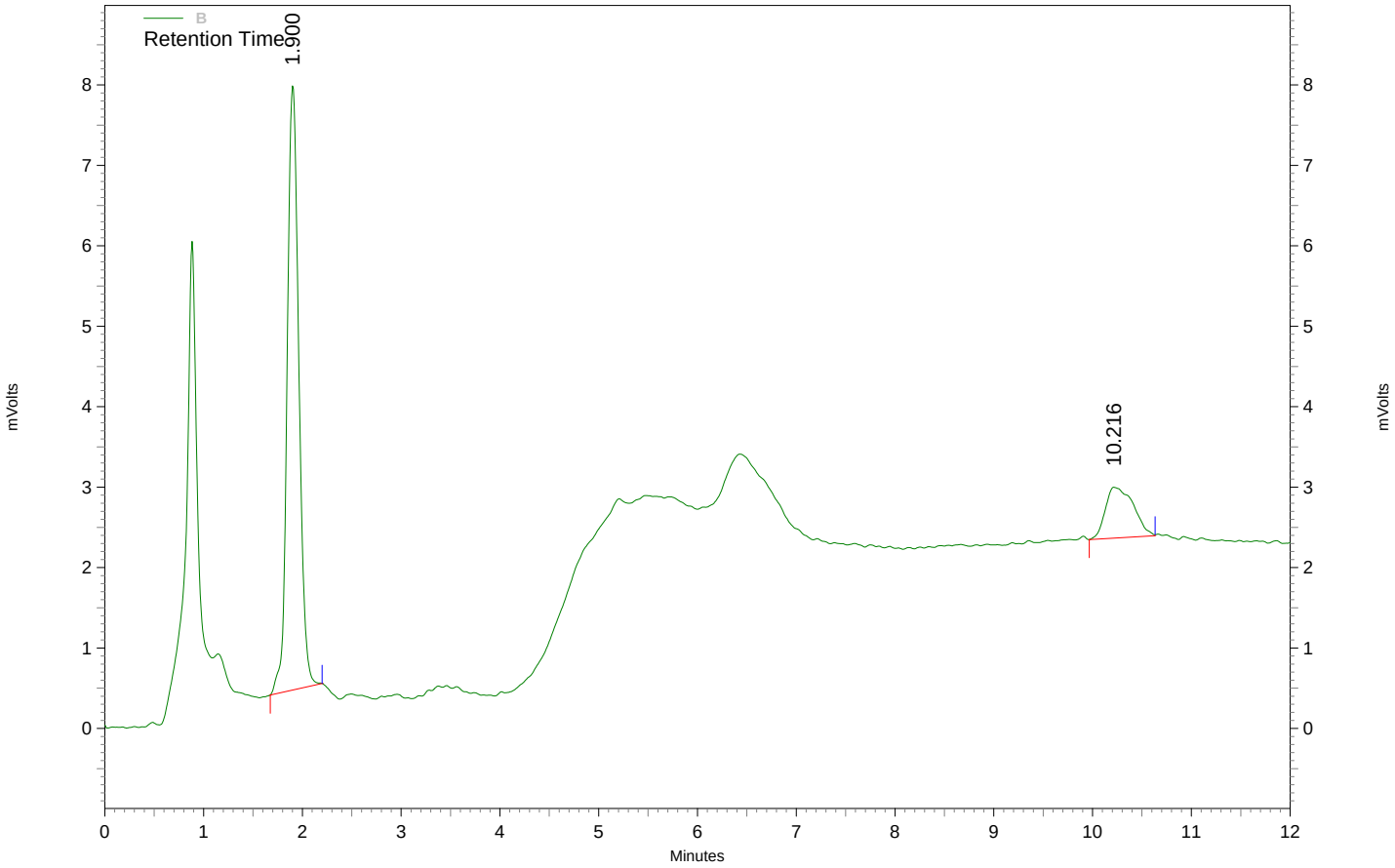
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.900	60513	**0.515**
12-DNB (SSTD)	10.216	12395	**87.921**

Before Manual Integration

JJY
12/30/2010
RED
12/30/2010

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\028.dat
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
User ID: red
Sample ID: 72414,877982,,msds
Acquired: Dec 17, 2010 01:55:16
Data summary: {Data Description}



B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.900	61661	**0.524**
12-DNB (SSTD)	10.216	12395	**87.921**

Triplicate Sample Analysis Relative Standard Deviation Calculations

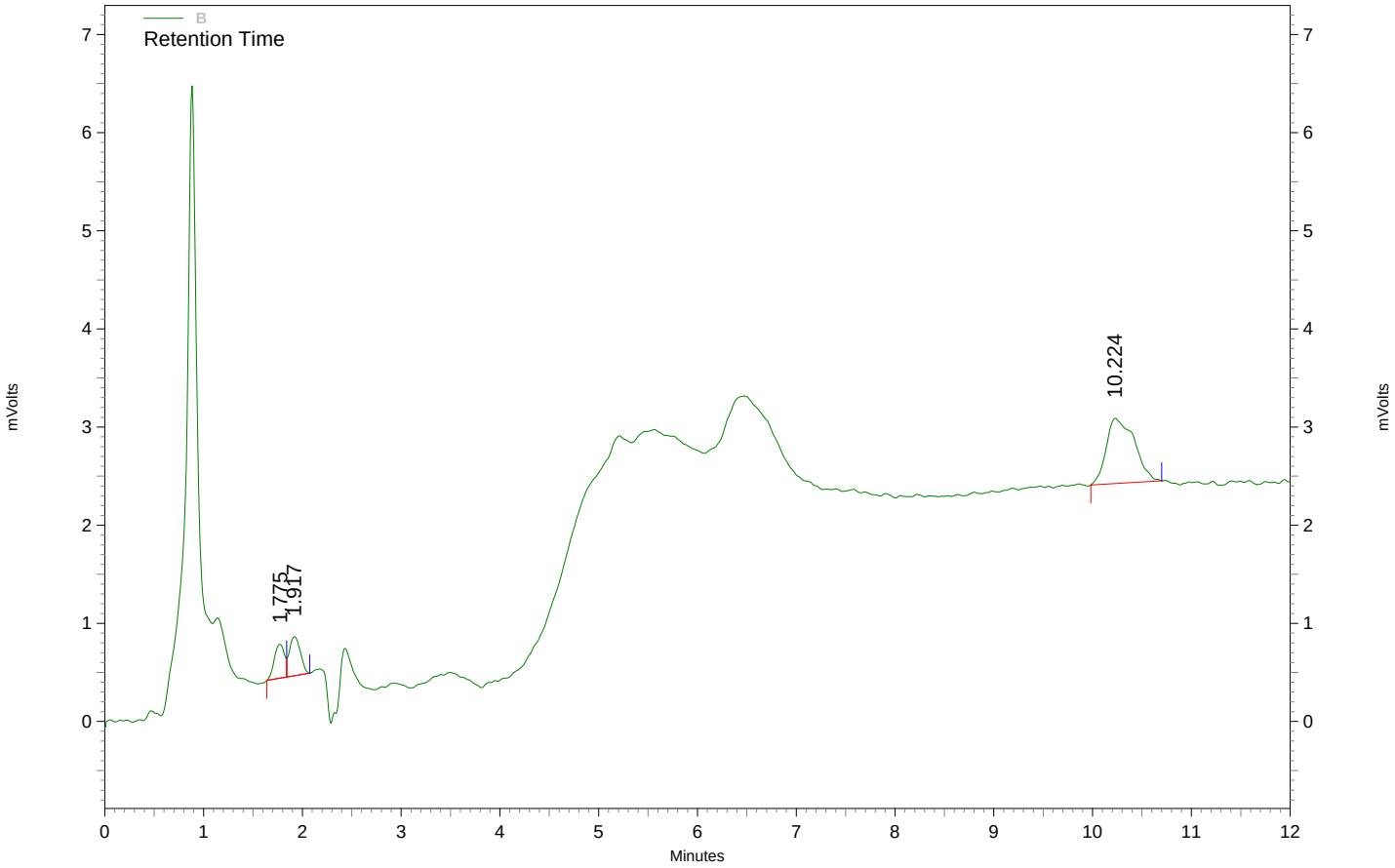
Analyst: Becky Duranceau
Sample ID: 870189
Analysis Date: 12/17/2010
Data path: C:\Instarch\Data\HPLC 2\Nitroguanidine_NQ\121610NQic-confirm

	Analyte Concentration (ug/mL)						
Analyte	Parent Sample	Duplicate Sample	Triplicate Sample	Mean Conc. (ug/mL)	Standard Deviation	%RSD	Flag (>20% RSD)
Nitroguanidine (NQ)	0.028	0.03	0.023	0.027	0.0036056	13.35389	
1.2-Dinitrobenzene (SSTD)	89.683	93.065	87.734	90.1606667	2.6974088	2.99178	

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\029.dat
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
User ID: red
Sample ID: 870189 dup
Acquired: Dec 17, 2010 02:09:34
Data summary: {Data Description}



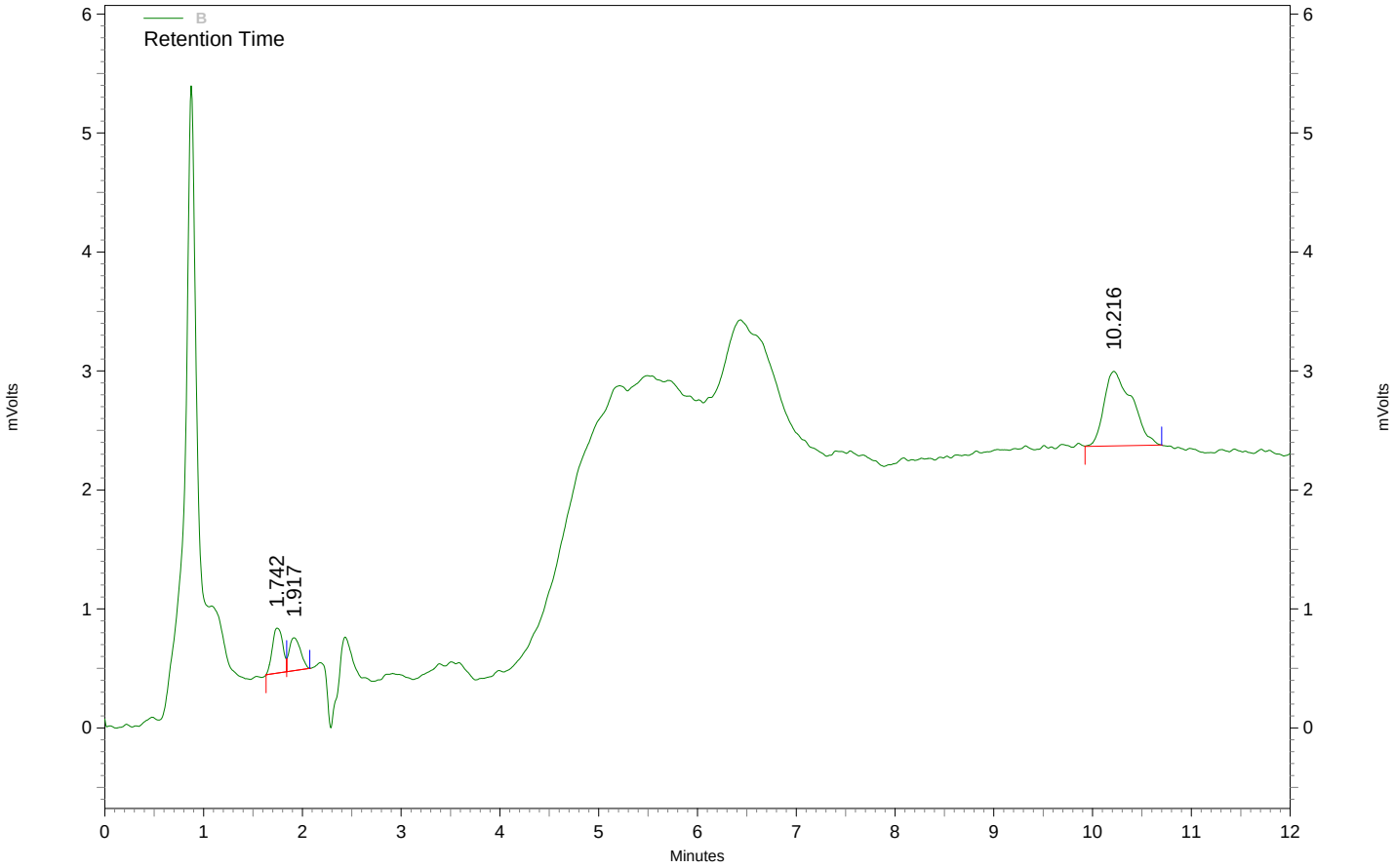
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.917	3085	**0.030**
12-DNB (SSTD)	10.224	13113	**93.065**

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\030.dat
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
User ID: red
Sample ID: 870189 trip
Acquired: Dec 17, 2010 02:23:54
Data summary: {Data Description}



B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.917	2187	**0.023**
12-DNB (SSTD)	10.216	12369	**87.734**

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2MBS01.D Vial: 2
Acq On : 2 Dec 2010 19:05 Operator: RPN
Sample : 72179,MBS,1 Inst : SVMS2
Misc : 874148,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 03 13:30:33 2010

RPN 12/02/10

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Fri Dec 03 13:29:16 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

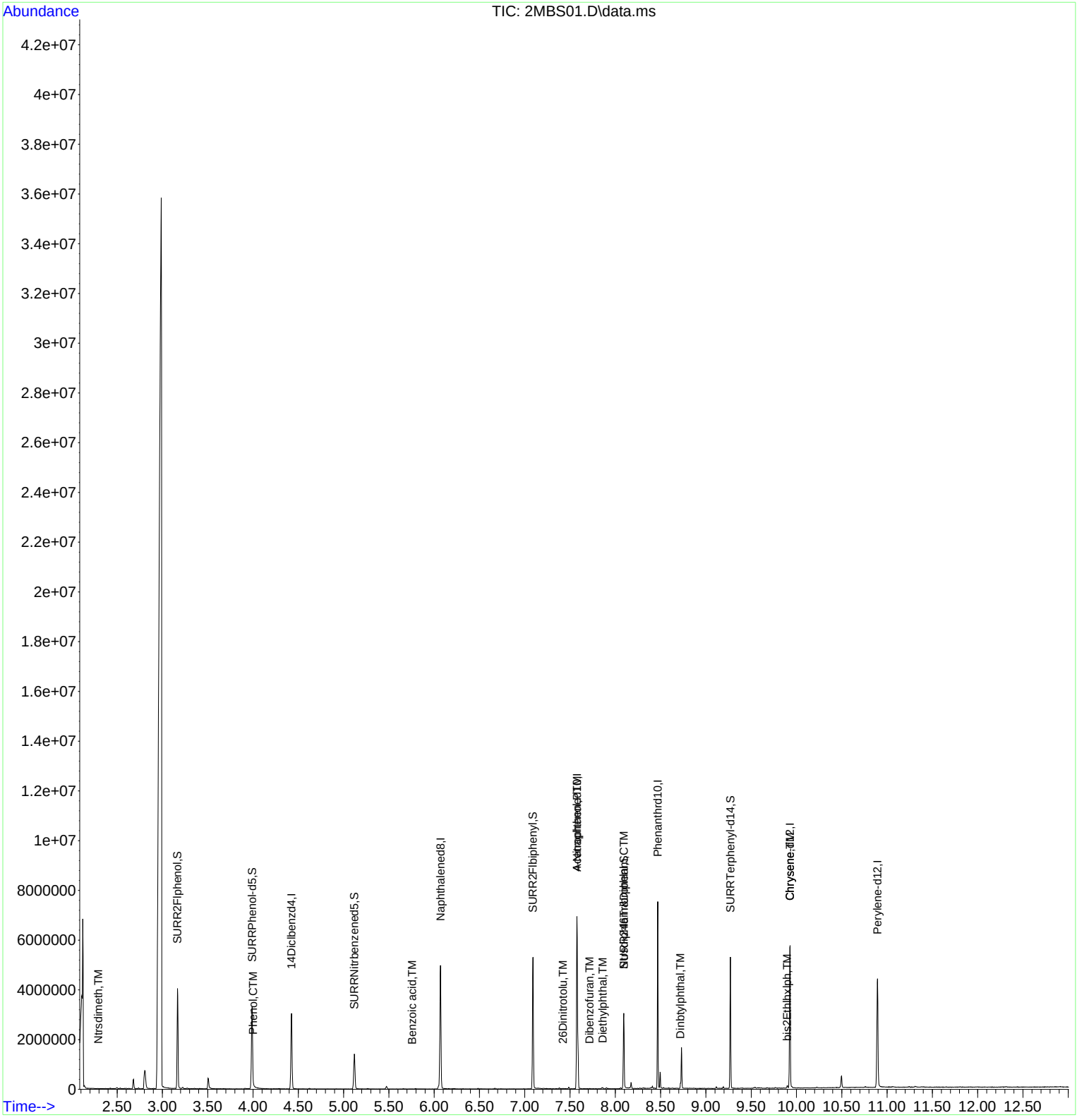
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.425	152	502657	20.00	ug/mL	0.00
21) Naphthalened8	6.070	136	2283741	20.00	ug/mL	0.00
39) Acenaphthened10	7.576	164	1179017	20.00	ug/mL	0.00
63) Phenanthrd10	8.468	188	1744631	20.00	ug/mL	0.00
75) Chrysene-d12	9.929	240	1599104	20.00	ug/mL	0.00
85) Perylene-d12	10.895	264	1489619	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	3.166	112	969622	77.49	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery = 77.49%			
7) SURRPhenol-d5	3.990	99	1267936	84.35	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 84.35%			
22) SURRNitrbenzened5	5.118	82	449232	81.51	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 81.51%			
44) SURR2Flbiphenyl	7.090	172	1345343	87.21	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 87.21%			
62) SURR246Tribrphenl	8.093	330	271425	76.14	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 76.14%			
78) SURRTerphenyl-d14	9.270	244	1036940	89.27	ug/mL	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 89.27%			
Target Compounds						Qvalue
2) Ntrsdimeth	2.294	74	1261	0.0707	ug/mL#	47
8) Phenol	4.002	94	12793	0.3453	ug/mL	82
30) Benzoic acid	5.758	105	468	2.9413	ug/mL#	66
49) 26Dinitrotolu	7.420	165	1932	0.1116	ug/mL	80
53) Dibenzofuran	7.716	168	3248	0.0340	ug/mL	59
55) 4-Nitrophenol	7.576	109	3366	0.5669	ug/mL	84
60) Diethylphthal	7.860	149	9565	0.1184	ug/mL	97
65) Ntrsdiphlam&Diphlam	8.093	169	9362	0.1807	ug/mL#	48
73) Dinbtylphthal	8.719	149	61912	0.5771	ug/mL	97
76) Benzidine	9.267	184	11728	Below Cal		89
82) Chrysene	9.929	228	3913	0.0459	ug/mL	66
83) bis2Ethlhxlph	9.898	149	21059	0.3125	ug/mL	98

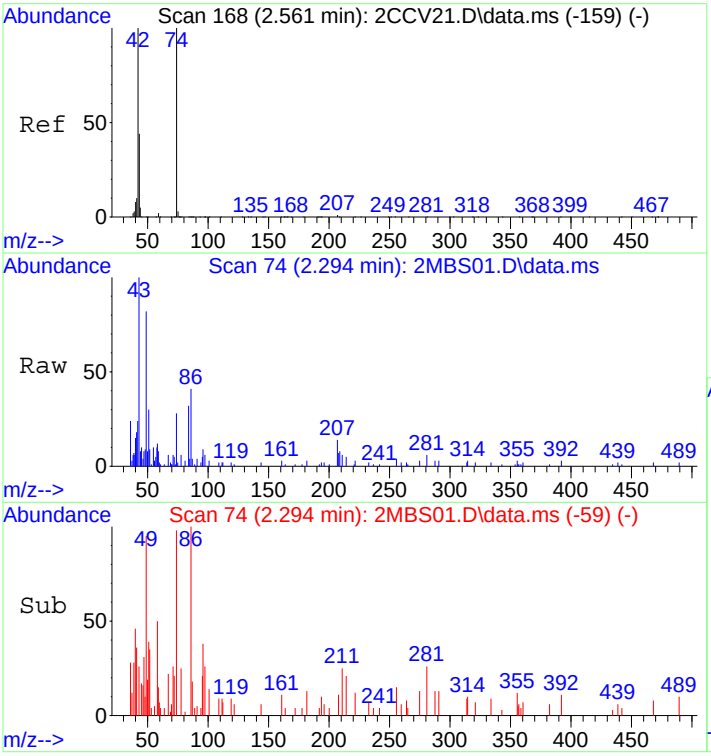
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2MBS01.D Vial: 2
Acq On : 2 Dec 2010 19:05 Operator: RPN
Sample : 72179,MBS,1 Inst : SVMS2
Misc : 874148,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 03 13:30:33 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Fri Dec 03 13:29:16 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

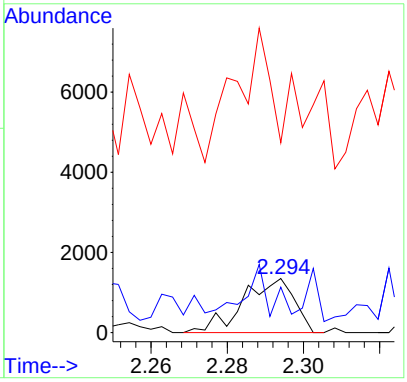


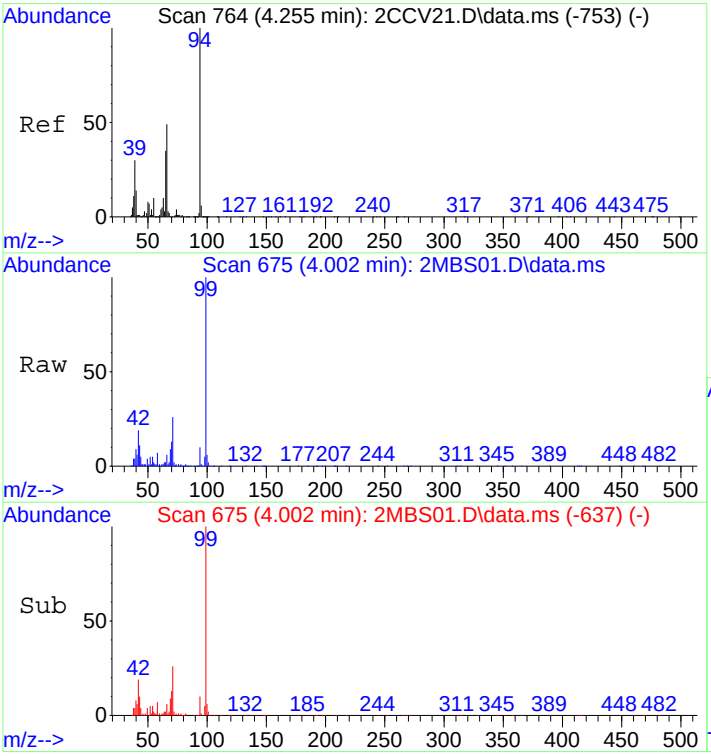


#2
Ntrsdimeth
Concen: 0.07 ug/mL
RT: 2.294 min Scan# 74
Delta R.T. -0.077 min
Lab File: 2MBS01.D
Acq: 2 Dec 10 7:05 pm

Tgt Ion: 74 Resp: 1261

Ion	Ratio	Lower	Upper
74	100		
42	63.8	82.4	142.4#
43	0.0	17.7	77.7#

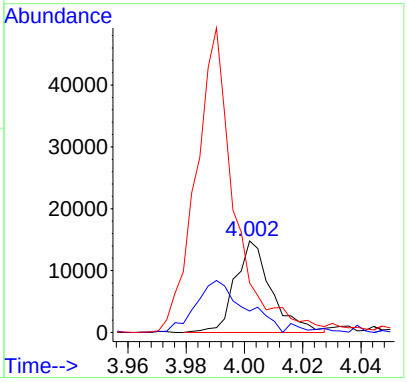


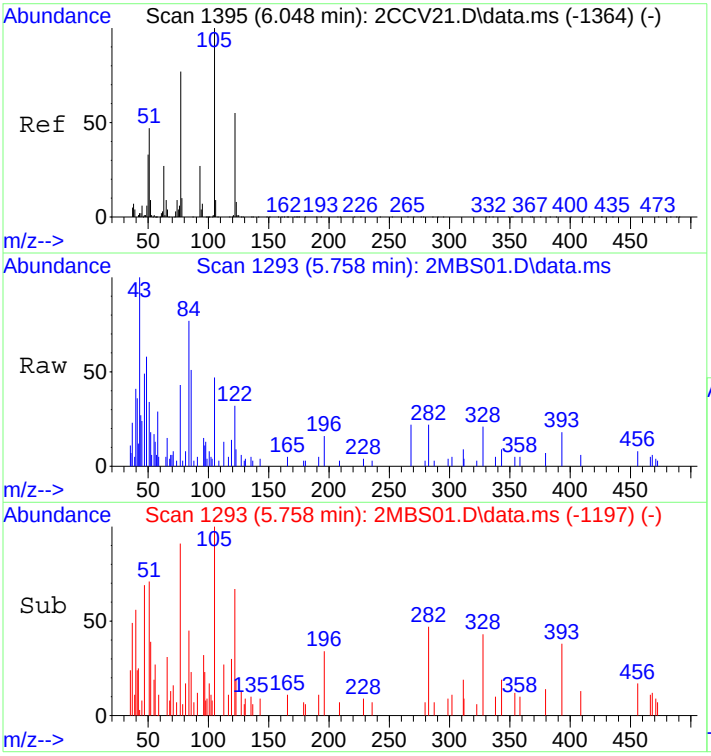


#8
Phenol
Concen: 0.35 ug/mL
RT: 4.002 min Scan# 675
Delta R.T. -0.006 min
Lab File: 2MBS01.D
Acq: 2 Dec 10 7:05 pm

Tgt Ion: 94 Resp: 12793

Ion	Ratio	Lower	Upper
94	100		
65	19.0	1.0	61.0
66	47.6	8.1	68.1

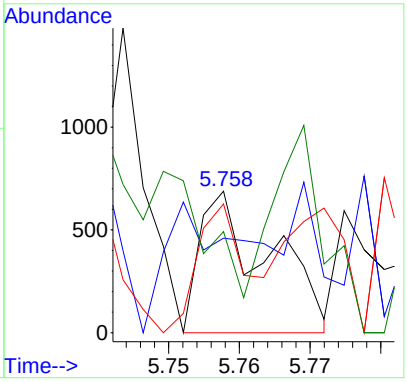


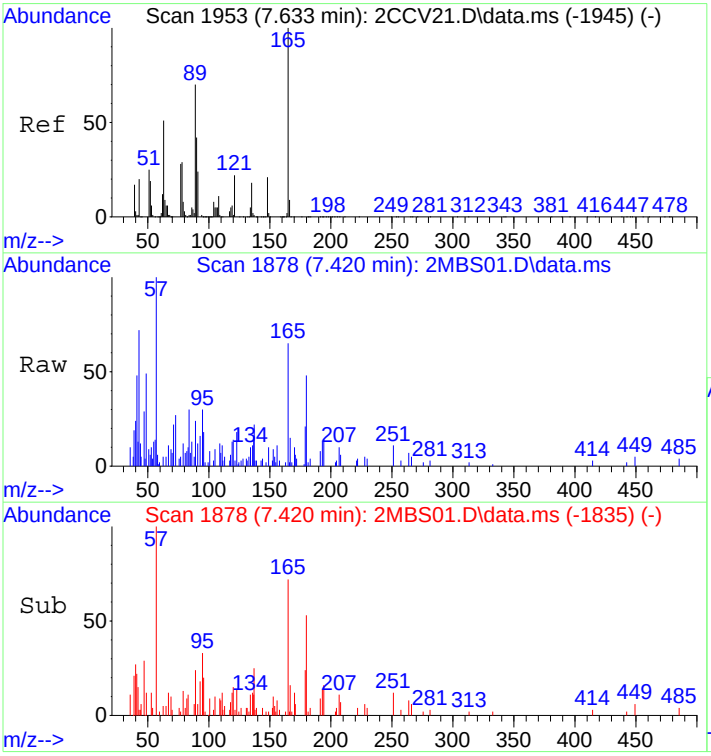


#30
Benzoic acid
Concen: 2.94 ug/mL
RT: 5.758 min Scan# 1293
Delta R.T. -0.002 min
Lab File: 2MBS01.D
Acq: 2 Dec 10 7:05 pm

Tgt Ion:105 Resp: 468

Ion	Ratio	Lower	Upper
105	100		
122	27.4	54.1	114.1#
77	77.2	45.9	105.9
51	22.9	17.6	77.6

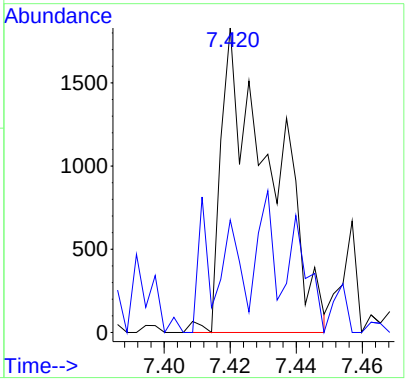


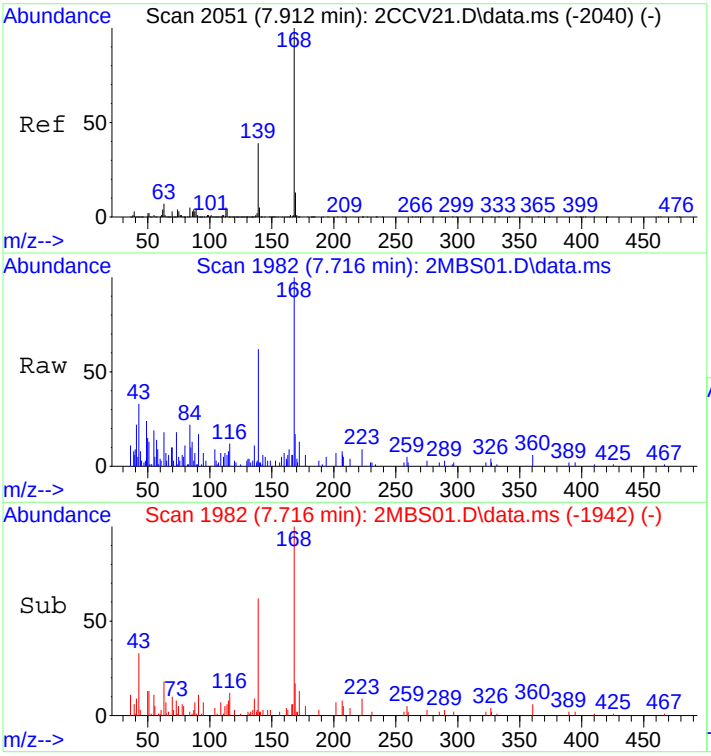


#49
26Dinitrotolu
Concen: 0.11 ug/mL
RT: 7.420 min Scan# 1878
Delta R.T. -0.023 min
Lab File: 2MBS01.D
Acq: 2 Dec 10 7:05 pm

Tgt Ion:165 Resp: 1932

Ion	Ratio	Lower	Upper
165	100		
89	36.9	20.8	80.8

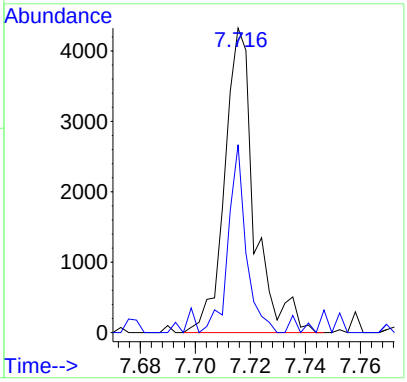


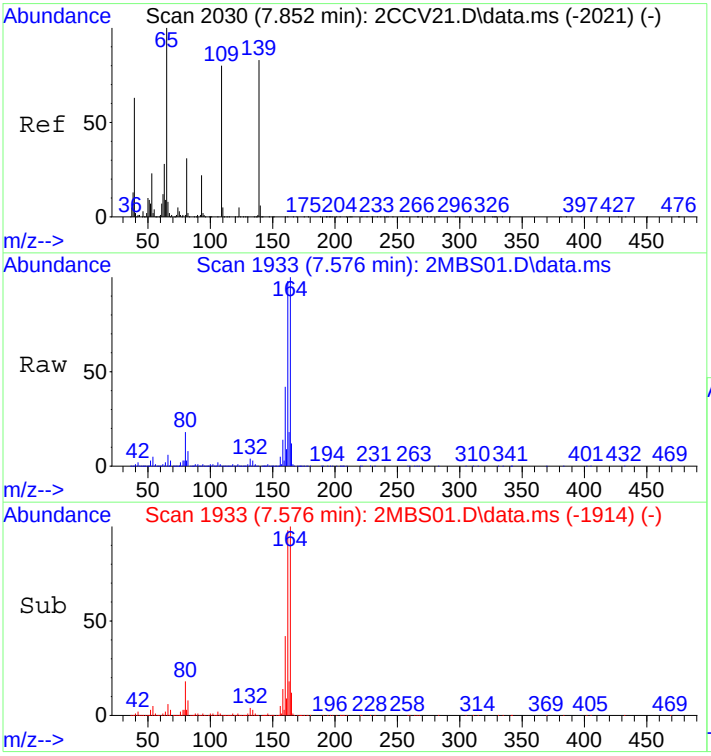


#53
Dibenzofuran
Concen: 0.03 ug/mL
RT: 7.716 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 2MBS01.D
Acq: 2 Dec 10 7:05 pm

Tgt Ion:168 Resp: 3248

Ion	Ratio	Lower	Upper
168	100		
139	61.7	7.1	67.1

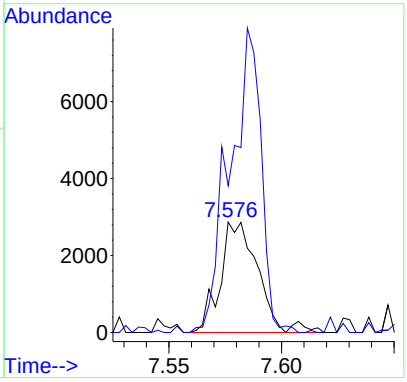


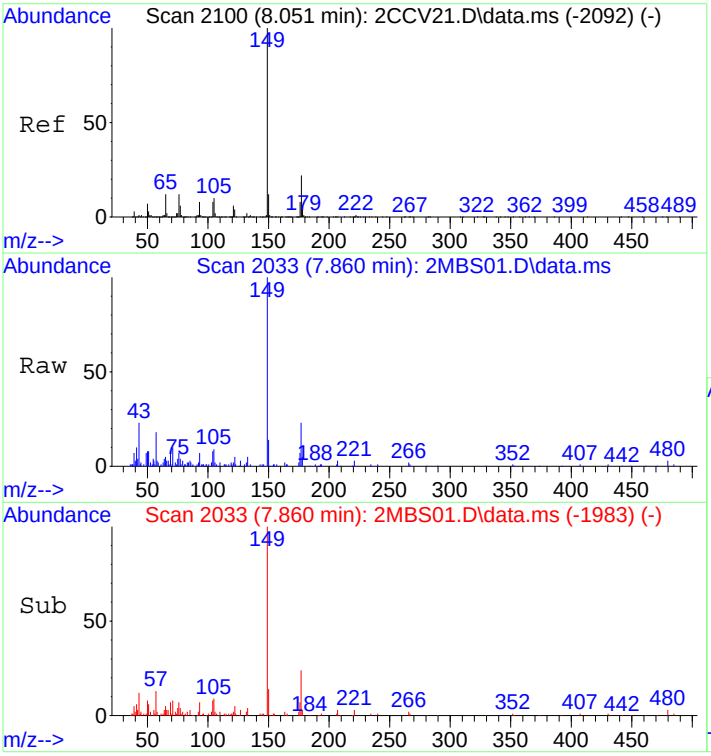


#55
4-Nitrophenol
Concen: 0.57 ug/mL
RT: 7.576 min Scan# 1933
Delta R.T. -0.091 min
Lab File: 2MBS01.D
Acq: 2 Dec 10 7:05 pm

Tgt Ion:109 Resp: 3366

Ion	Ratio	Lower	Upper
109	100		
65	132.9	123.5	183.5

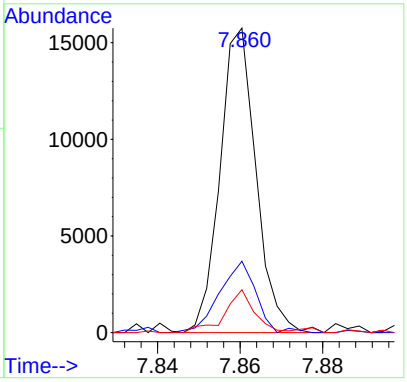


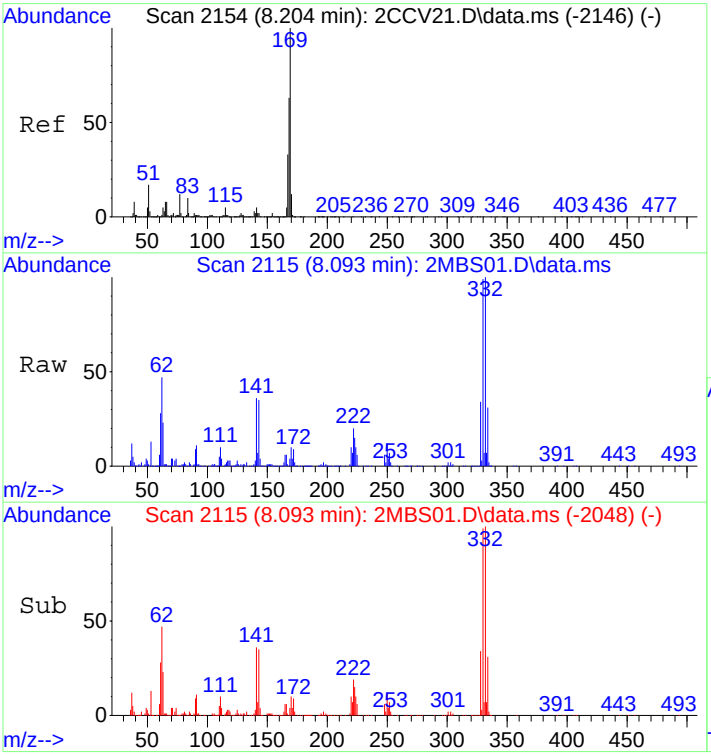


#60
Diethylphthal
Concen: 0.12 ug/mL
RT: 7.860 min Scan# 2033
Delta R.T. -0.003 min
Lab File: 2MBS01.D
Acq: 2 Dec 10 7:05 pm

Tgt Ion:149 Resp: 9565

Ion	Ratio	Lower	Upper
149	100		
177	23.4	0.0	52.2
150	14.1	0.0	42.5

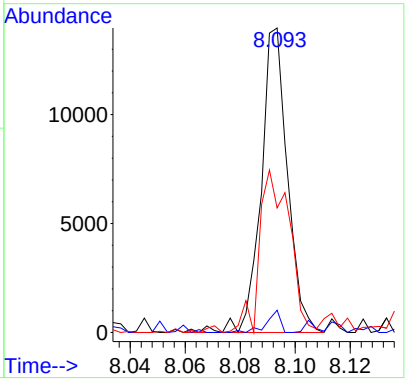


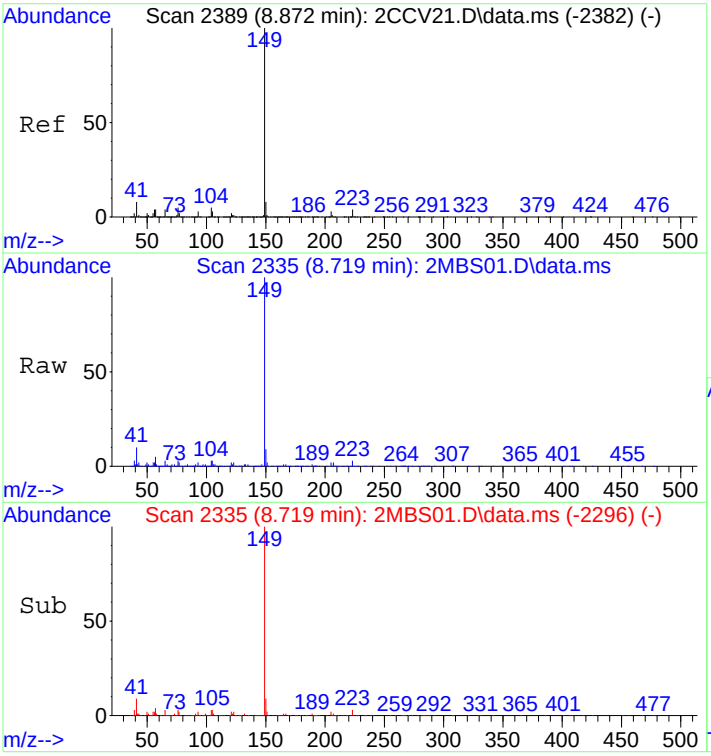


#65
Ntrsdiphlam&Diphlam
Concen: 0.18 ug/mL
RT: 8.093 min Scan# 2115
Delta R.T. 0.076 min
Lab File: 2MBS01.D
Acq: 2 Dec 10 7:05 pm

Tgt Ion:169 Resp: 9362

Ion	Ratio	Lower	Upper
169	100		
168	6.9	34.8	94.8#
167	40.9	4.6	64.6

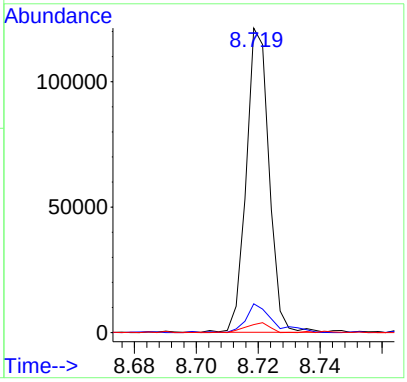


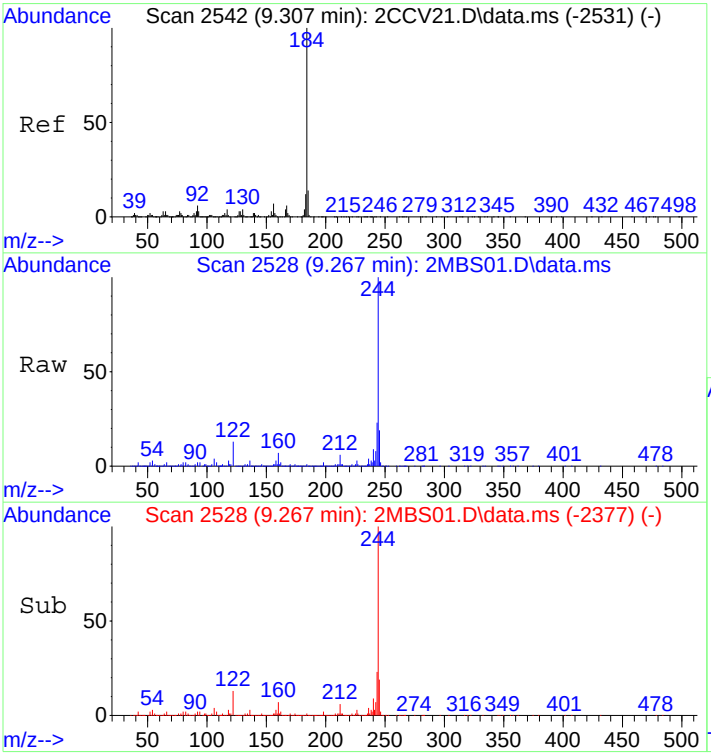


#73
Dinbtylphthal
Concen: 0.58 ug/mL
RT: 8.719 min Scan# 2335
Delta R.T. -0.003 min
Lab File: 2MBS01.D
Acq: 2 Dec 10 7:05 pm

Tgt Ion:149 Resp: 61912

Ion	Ratio	Lower	Upper
149	100		
150	9.4	0.0	38.5
104	2.6	0.0	34.3

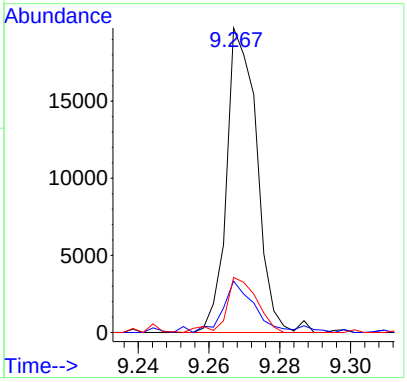


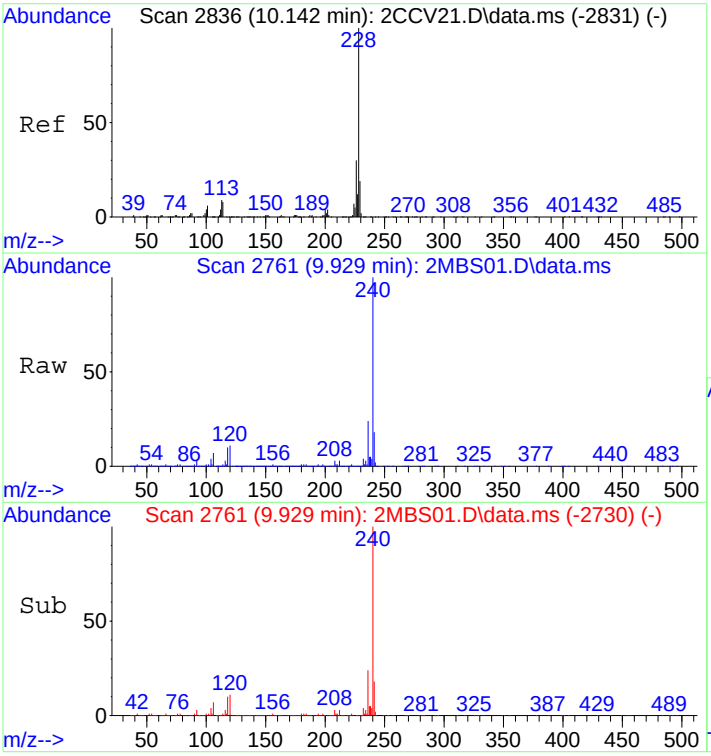


#76
Benzidine
Concen: Below ug/mL
RT: 9.267 min Scan# 2528
Delta R.T. 0.128 min
Lab File: 2MBS01.D
Acq: 2 Dec 10 7:05 pm

Tgt Ion:184 Resp: 11728

Ion	Ratio	Lower	Upper
184	100		
185	16.1	0.0	43.8
183	18.1	0.0	41.8

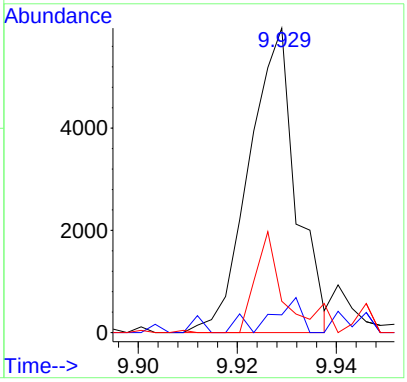


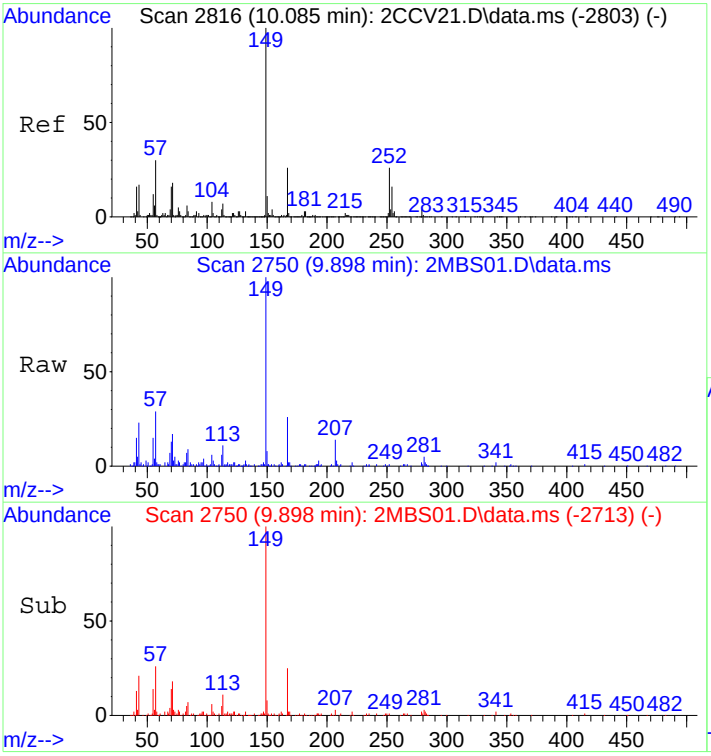


#82
Chrysene
Concen: 0.05 ug/mL
RT: 9.929 min Scan# 2761
Delta R.T. -0.026 min
Lab File: 2MBS01.D
Acq: 2 Dec 10 7:05 pm

Tgt Ion:228 Resp: 3913

Ion	Ratio	Lower	Upper
228	100		
226	5.8	0.0	58.6
229	9.6	0.0	49.6

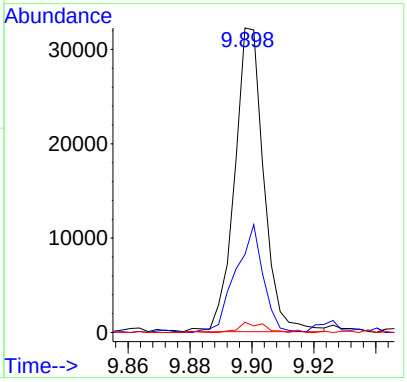




#83
bis2Ethlhxlph
Concen: 0.31 ug/mL
RT: 9.898 min Scan# 2750
Delta R.T. -0.009 min
Lab File: 2MBS01.D
Acq: 2 Dec 10 7:05 pm

Tgt Ion:149 Resp: 21059

Ion	Ratio	Lower	Upper
149	100		
167	25.6	0.0	56.9
279	3.4	0.0	33.6



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2LCSS01.D Vial: 3
Acq On : 2 Dec 2010 19:25 Operator: RPN
Sample : 72179,LCSS,1 Inst : SVMS2
Misc : 874149,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 03 13:29:21 2010

RPN 12/02/10

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Fri Dec 03 13:29:16 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.425	152	569854	20.00	ug/mL	0.00
21) Naphthalened8	6.071	136	2603938	20.00	ug/mL	0.00
39) Acenaphthened10	7.579	164	1310497	20.00	ug/mL	0.00
63) Phenanthrd10	8.469	188	1966475	20.00	ug/mL	0.00
75) Chrysene-d12	9.929	240	1851045	20.00	ug/mL	0.00
85) Perylene-d12	10.895	264	1710163	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	3.172	112	1109805	78.23	%REC	0.01
Spiked Amount 100.000	Range 20 - 110		Recovery = 78.23%			
7) SURRPhenol-d5	3.996	99	1447345	84.93	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 84.93%			
22) SURRNitrbenzened5	5.124	82	524534	83.47	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 83.47%			
44) SURR2Flbiphenyl	7.091	172	1486114	86.67	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 86.67%			
62) SURR246Tribrphenl	8.097	330	364450	91.98	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 91.98%			
78) SURRTerphenyl-d14	9.270	244	1185130	88.14	ug/mL	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 88.14%			
Target Compounds						Qvalue
2) Ntrsdimeth	2.380	74	228707	11.3028	ug/mL	86
3) Pyridine	2.428	79	52461	1.4593	ug/mL	91
5) Aniline	4.056	93	359703	6.5483	ug/mL	95
6) bis2Clethletr	4.124	93	554374	16.2592	ug/mL	99
8) Phenol	4.008	94	696873	16.5913	ug/mL	84
9) 2-Cl-phenol	4.181	128	611152	15.9752	ug/mL	99
10) 13Diclbenz	4.357	146	667509	15.1055	ug/mL	97
11) 14Diclbenz	4.445	146	696100	15.5034	ug/mL	100
12) 12Diclbenz	4.624	146	664407	15.5961	ug/mL	93
13) Benzyl alcoho	4.590	108	308038	16.0405	ug/mL#	74
14) bis2clispreth	4.764	45	1041850	16.0430	ug/mL	95
15) 2Methylphenol	4.721	108	541631	16.8638	ug/mL	93
16) Ntrspyrrol	4.906	100	269197	15.8579	ug/mL	85
17) Acetophenone	4.925	105	765638	15.9756	ug/mL	85
18) Hexaclethane	5.051	117	226337	15.1116	ug/mL	97
19) N-Ntrsdinprop	4.934	70	346005	16.1302	ug/mL	98
20) 3&4Methylphenol	4.925	108	549346	17.1501	ug/mL	99
23) Nitrobenzene	5.150	77	533156	16.6086	ug/mL	82
24) Isophorone	5.505	82	1117910	15.7772	ug/mL	93
25) 2-Nitrophenol	5.607	139	396569	16.5221	ug/mL	76
26) 24Dimthpheno	5.684	107	591207	16.2543	ug/mL	85
27) bis2clethoxym	5.815	93	816978	16.7237	ug/mL	89
28) 24Diclphenol	5.914	162	575964	16.9587	ug/mL	97
29) 124Triclbenz	6.008	180	666106	15.8407	ug/mL	94
30) Benzoic acid	5.764	105	90327	6.0991	ug/mL	81
31) Naphthalene	6.093	128	2203491	16.5809	ug/mL	99
32) 4-Cl-aniline	6.170	127	277978	5.5763	ug/mL	94
33) 26Diclphenol	6.170	162	508642	16.5400	ug/mL	93
34) Hexaclprop	6.193	213	340468	15.7443	ug/mL	98
35) Hexaclbutdien	6.235	225	303164	15.3340	ug/mL	97
36) 4Cl3methylphe	6.667	107	563790	17.3557	ug/mL	90
37) 2Methylnaphth	6.781	141	1247092	16.8113	ug/mL	99
38) 1Methylnaphth	6.866	141	1260284	16.3687	ug/mL	97
40) Hxclcycpentdi	6.914	237	333864	15.4215	ug/mL	98

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2LCSS01.D Vial: 3
Acq On : 2 Dec 2010 19:25 Operator: RPN
Sample : 72179,LCSS,1 Inst : SVMS2
Misc : 874149,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 03 13:29:21 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Fri Dec 03 13:29:16 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

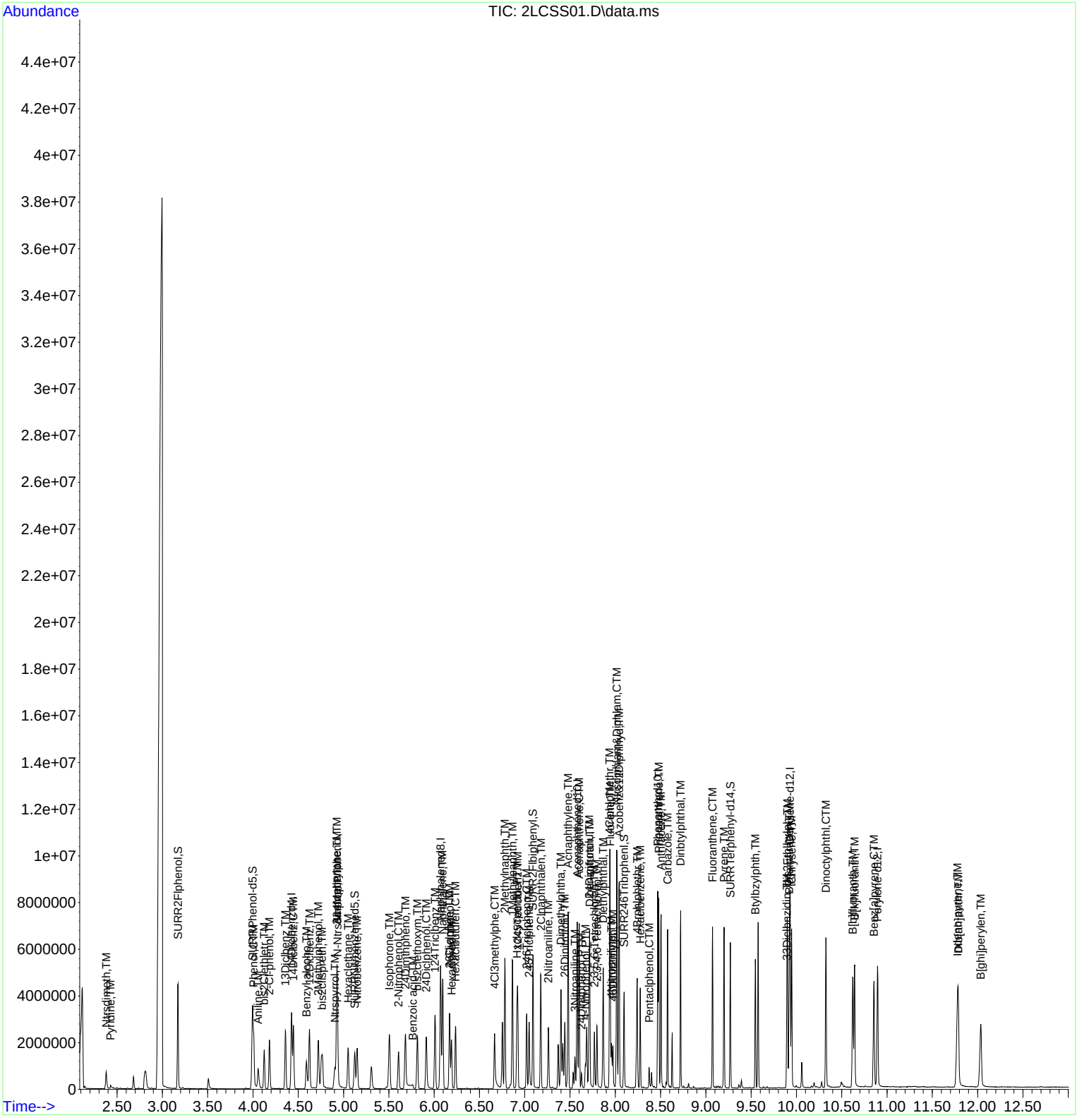
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	6.923	216	592219	16.9664 ug/mL	96
42) 246Triclpheno	7.022	196	392630	17.0769 ug/mL	98
43) 245Triclpheno	7.048	196	428101	17.5305 ug/mL	99
45) 2Clnaphthalen	7.179	162	1295445	17.1121 ug/mL	98
46) 2Nitroaniline	7.261	65	322972	18.2710 ug/mL#	67
47) Acnaphthylene	7.480	152	2247091	17.3255 ug/mL	98
48) Dimethylphtha	7.400	163	1539025	17.2996 ug/mL	99
49) 26Dinitrotolu	7.443	165	345541	17.9566 ug/mL	81
50) Acenaphthene	7.602	153	1412678	17.3245 ug/mL	99
51) 3Nitroaniline	7.554	138	208186	10.1083 ug/mL	85
52) 24Dinitphenol	7.628	184	100997	10.1877 ug/mL#	70
53) Dibenzofuran	7.719	168	1841240	17.3541 ug/mL	95
54) 24Dinitrotolu	7.713	165	439382	18.4451 ug/mL	81
55) 4-Nitrophenol	7.670	109	113776	17.2388 ug/mL	80
56) 2,3,5,6-Tetrachlorop	7.770	232	236990	12.9203 ug/mL	97
57) 2,3,4,6-Tetrachlorop	7.798	232	283726	14.6440 ug/mL	96
58) Fluorene	7.943	166	1448578	16.9323 ug/mL	99
59) 4Clphlphlethr	7.937	204	651110	17.1098 ug/mL	100
60) Diethylphthal	7.866	149	1604844	17.8721 ug/mL	97
61) 4Nitroaniline	7.957	138	378178	18.7101 ug/mL#	72
64) 46Dinit2mylph	7.974	198	223328	15.6725 ug/mL	88
65) Ntrsdiphlam&Diphlam	8.017	169	2046099	35.0303 ug/mL	99
66) Azobenz&12Diphlhyd	8.043	182	754467	34.1911 ug/mL#	71
67) 4Brphlphlethr	8.241	248	388210	18.1923 ug/mL	91
68) Hexaclbenzene	8.276	284	365649	16.5196 ug/mL	95
69) Pentaclphenol	8.375	266	68649	7.9867 ug/mL	88
70) Phenanthrene	8.480	178	1800585	17.2683 ug/mL	99
71) Anthracene	8.506	178	1847919	17.4804 ug/mL	98
72) Carbazole	8.577	167	1634351	18.2494 ug/mL	98
73) Dinbtylphthal	8.722	149	2267812	18.7551 ug/mL	99
74) Fluoranthene	9.074	202	1807329	17.1764 ug/mL	96
76) Benzidine	9.136	184	16582	Below Cal	98
77) Pyrene	9.202	202	1918777	17.3827 ug/mL	93
79) Btylbzylphth	9.546	149	947797	17.6591 ug/mL	92
80) 33Diclbnzidin	9.892	252	336049	15.9280 ug/mL	98
81) B[a]anthracen	9.921	228	1784738	17.3369 ug/mL	98
82) Chrysene	9.946	228	1688406	17.1181 ug/mL	99
83) bis2Ethlhxlph	9.901	149	1378759	17.6751 ug/mL	99
84) Dinoctylphthl	10.324	149	2494861	18.0002 ug/mL	99
86) B[b]fluoranth	10.623	252	1673158	16.6096 ug/mL	97
87) B[k]fluoranth	10.642	252	1648975	17.3299 ug/mL	98
88) Benz[a]pyrene	10.856	252	1585191	17.2411 ug/mL	98
89) Indeno-pyrene	11.776	276	1674678	17.9383 ug/mL	94
90) Dib[ah]anthr	11.788	278	1378133	18.1938 ug/mL	95
91) B[ghi]perylen	12.035	276	1396187	18.0047 ug/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2LCSS01.D Vial: 3
Acq On : 2 Dec 2010 19:25 Operator: RPN
Sample : 72179,LCSS,1 Inst : SVMS2
Misc : 874149,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 03 13:29:21 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Fri Dec 03 13:29:16 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M



Quantitation Report (Not Reviewed)

Data File : C:\INSTARCH\DATA\2S120510\2LCSS02R.D Vial: 19
Acq On : 5 Dec 2010 20:01 Operator: RPN
Sample : 72179,LCSS,1 Inst : SVMS2
Misc : 874149,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Jan 05 11:50:53 2011

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01/05/11

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Wed Jan 05 11:50:49 2011
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.417	152	402037	20.00	ug/mL	0.00
21) Naphthalened8	6.068	136	1868468	20.00	ug/mL	0.00
39) Acenaphthened10	7.576	164	921563	20.00	ug/mL	0.00
63) Phenanthrd10	8.477	188	1415000	20.00	ug/mL	0.00
75) Chrysene-d12	9.929	240	1240692	20.00	ug/mL	0.00
85) Perylene-d12	10.890	264	1159099	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	3.161	112	768223	76.76	%REC	0.01
Spiked Amount 100.000	Range 20 - 110		Recovery = 76.76%			
7) SURRPhenol-d5	3.988	99	979508	81.47	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 81.47%			
22) SURRNitrbenzened5	5.113	82	377751	83.78	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 83.78%			
44) SURR2Flbiphenyl	7.090	172	1029762	85.40	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 85.40%			
62) SURR246Tribrphenl	8.094	330	245929	88.26	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 88.26%			
78) SURRTerphenyl-d14	9.273	244	804539	89.28	ug/mL	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 89.28%			
Target Compounds						Qvalue
2) Ntrsdimeth	2.340	74	226768	15.8850	ug/mL	85
3) Pyridine	2.388	79	48066	1.8952	ug/mL	95
5) Aniline	4.047	93	202823	5.2336	ug/mL	93
6) bis2Clethletr	4.116	93	400478	16.6484	ug/mL	98
8) Phenol	4.002	94	473028	15.9629	ug/mL	83
9) 2-Cl-phenol	4.172	128	427509	15.8394	ug/mL	99
10) 13Diclbenz	4.349	146	484447	15.5390	ug/mL	95
11) 14Diclbenz	4.437	146	500694	15.8061	ug/mL	97
12) 12Diclbenz	4.613	146	478802	15.9307	ug/mL	93
13) Benzyl alcoho	4.584	108	109705	8.7477	ug/mL#	73
14) bis2clispreth	4.755	45	722390	15.7670	ug/mL	95
15) 2Methylphenol	4.715	108	373905	16.5010	ug/mL	100
16) Ntrspyrrol	4.891	100	211995	17.7010	ug/mL	83
17) Acetophenone	4.917	105	552720	16.3469	ug/mL	83
18) Hexaclethane	5.039	117	161168	15.2521	ug/mL	98
19) N-Ntrsdinprop	4.922	70	240810	15.9122	ug/mL	94
20) 3&4Methylphenol	4.917	108	396784	17.5579	ug/mL	99
23) Nitrobenzene	5.138	77	383277	16.6393	ug/mL	86
24) Isophorone	5.496	82	818312	16.0948	ug/mL	95
25) 2-Nitrophenol	5.599	139	275100	15.9728	ug/mL	79
26) 24Dimthpheno	5.675	107	412799	15.8166	ug/mL	90
27) bis2clethoxym	5.809	93	566531	16.1618	ug/mL	90
28) 24Diclphenol	5.908	162	410709	16.8530	ug/mL	92
29) 124Triclbenz	6.005	180	479008	15.8752	ug/mL	95
30) Benzoic acid	5.800	105	2265	3.0336	ug/mL#	11
31) Naphthalene	6.090	128	1564621	16.4078	ug/mL	99
32) 4-Cl-aniline	6.164	127	231604	6.4748	ug/mL	93
33) 26Diclphenol	6.167	162	353847	16.0355	ug/mL	98
34) Hexaclprop	6.187	213	237742	15.3214	ug/mL	97
35) Hexaclbutdien	6.232	225	217342	15.3203	ug/mL	96
36) 4Cl3methylphe	6.667	107	382384	16.4047	ug/mL	85
37) 2Methylnaphth	6.781	141	890812	16.7353	ug/mL	97
38) 1Methylnaphth	6.863	141	893442	16.1718	ug/mL	95
40) Hxclcycpentdi	6.912	237	222887	14.6655	ug/mL	96

Quantitation Report (Not Reviewed)

Data File : C:\INSTARCH\DATA\2S120510\2LCSS02R.D Vial: 19
Acq On : 5 Dec 2010 20:01 Operator: RPN
Sample : 72179,LCSS,1 Inst : SVMS2
Misc : 874149,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Jan 05 11:50:53 2011

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Wed Jan 05 11:50:49 2011
Response via : Initial Calibration
DataAcq Meth:2S120210.M

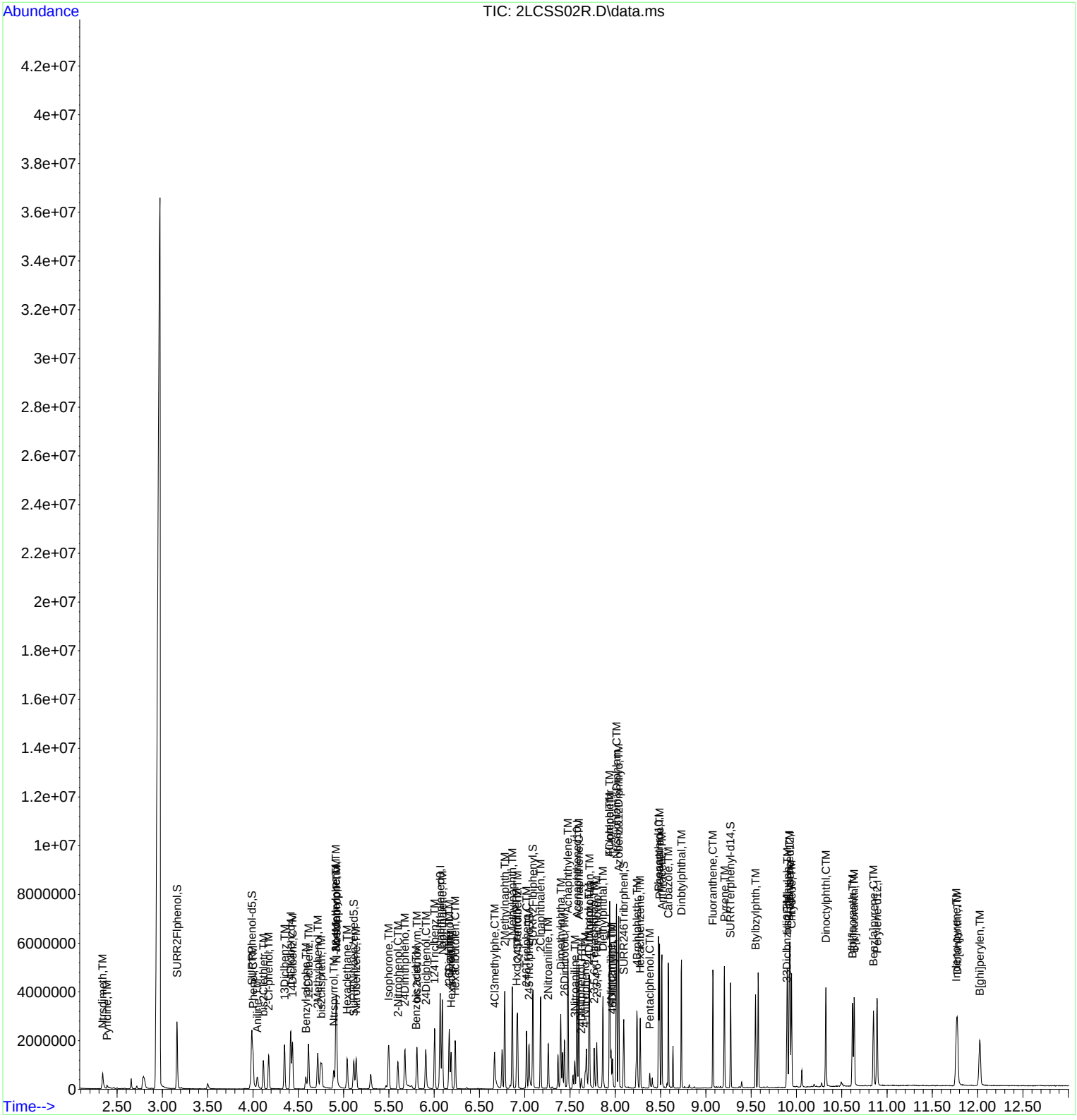
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	6.920	216	420339	17.1245 ug/mL	95
42) 246Triclpheno	7.019	196	268705	16.6193 ug/mL	91
43) 245Triclpheno	7.048	196	293563	17.0946 ug/mL	100
45) 2Clnaphthalen	7.176	162	922599	17.3304 ug/mL	98
46) 2Nitroaniline	7.258	65	224283	18.0428 ug/mL#	70
47) Acnaphthylene	7.477	152	1578209	17.3038 ug/mL	98
48) Dimethylphtha	7.397	163	1040495	16.6319 ug/mL	98
49) 26Dinitrotolu	7.440	165	235880	17.4312 ug/mL	79
50) Acenaphthene	7.599	153	977922	17.0543 ug/mL	99
51) 3Nitroaniline	7.554	138	170598	11.7791 ug/mL	79
52) 24Dinitphenol	7.625	184	62161	9.2133 ug/mL#	63
53) Dibenzofuran	7.716	168	1293395	17.3354 ug/mL	93
54) 24Dinitrotolu	7.707	165	303161	18.0976 ug/mL	83
55) 4-Nitrophenol	7.667	109	78572	16.9292 ug/mL	80
56) 2,3,5,6-Tetrachlorop	7.767	232	158307	12.2960 ug/mL	95
57) 2,3,4,6-Tetrachlorop	7.795	232	192796	14.1620 ug/mL	96
58) Fluorene	7.937	166	1022066	16.9888 ug/mL	99
59) 4Clphlphlethr	7.937	204	446454	16.6832 ug/mL	95
60) Diethylphthal	7.863	149	1052747	16.6716 ug/mL	99
61) 4Nitroaniline	7.954	138	269707	18.9751 ug/mL#	71
64) 46Dinit2mylph	7.969	198	140250	13.6782 ug/mL	91
65) Ntrsdiphlam&Diphlam	8.014	169	1455059	34.6202 ug/mL	99
66) Azobenz&12Diphlhyd	8.037	182	537271	33.8375 ug/mL#	76
67) 4Brphlphlethr	8.238	248	276514	18.0082 ug/mL	87
68) Hexaclbenzene	8.275	284	259965	16.3223 ug/mL	98
69) Pentaclphenol	8.381	266	48666	7.9049 ug/mL	87
70) Phenanthrene	8.489	178	1300086	17.3277 ug/mL	100
71) Anthracene	8.514	178	1320152	17.3550 ug/mL	98
72) Carbazole	8.585	167	1201429	18.6438 ug/mL	98
73) Dinbtylphthal	8.730	149	1536093	17.6548 ug/mL	98
74) Fluoranthene	9.077	202	1279197	16.8952 ug/mL	99
76) Benzidine	9.139	184	5873	Below Cal	87
77) Pyrene	9.205	202	1336185	18.0597 ug/mL	95
79) Btylbzylphth	9.548	149	632363	17.5781 ug/mL	89
80) 33Diclbnzidin	9.892	252	238387	16.8277 ug/mL	96
81) B[a]anthracen	9.921	228	1208061	17.5081 ug/mL	98
82) Chrysene	9.946	228	1175207	17.7765 ug/mL	97
83) bis2Ethlhxlph	9.901	149	899102	17.1963 ug/mL	99
84) Dinoctylphthl	10.324	149	1596677	17.1870 ug/mL	98
86) B[b]fluoranth	10.620	252	1126269	16.4961 ug/mL	100
87) B[k]fluoranth	10.637	252	1097191	17.0130 ug/mL	99
88) Benz[a]pyrene	10.850	252	1054090	16.9152 ug/mL	99
89) Indeno-pyrene	11.765	276	1121462	17.7235 ug/mL	98
90) Dib[ah]anthr	11.776	278	933608	18.1850 ug/mL	98
91) B[ghi]perylen	12.023	276	933739	17.7658 ug/mL	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\INSTARCH\DATA\2S120510\2LCSS02R.D Vial: 19
Acq On : 5 Dec 2010 20:01 Operator: RPN
Sample : 72179,LCSS,1 Inst : SVMS2
Misc : 874149,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Jan 05 11:50:53 2011

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Wed Jan 05 11:50:49 2011
Response via : Initial Calibration
DataAcq Meth:2S120210.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\870201MS.D Vial: 5
Acq On : 2 Dec 2010 20:06 Operator: RPN
Sample : 72180,MSS870201,1 Inst : SVMS2
Misc : 874146,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 13 16:13:40 2010

RPN 12/10/10

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Mon Dec 13 16:13:34 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.428	152	539949	20.00	ug/mL	0.00
21) Naphthalened8	6.071	136	2505027	20.00	ug/mL	0.00
39) Acenaphthened10	7.576	164	1285088	20.00	ug/mL	0.00
63) Phenanthrd10	8.469	188	1924294	20.00	ug/mL	0.00
75) Chrysene-d12	9.943	240	1792426	20.00	ug/mL	0.00
85) Perylene-d12	10.910	264	1620580	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	3.186	112	1129837	84.05	%REC	0.03
Spiked Amount 100.000	Range 20 - 110		Recovery = 84.05%			
7) SURRPhenol-d5	3.999	99	1413454	87.54	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 87.54%			
22) SURRNitrbenzened5	5.124	82	521074	86.20	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 86.20%			
44) SURR2Flbiphenyl	7.091	172	1465550	87.16	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 87.16%			
62) SURR246Tribrphenl	8.096	330	386776	99.54	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 99.54%			
78) SURRTerphenyl-d14	9.281	244	1173329	90.12	ug/mL	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 90.12%			
Target Compounds						Qvalue
2) Ntrsdimeth	2.377	74	266293	13.8892	ug/mL	89
3) Pyridine	2.391	79	697	0.0205	ug/mL#	3
5) Aniline	4.016	93	14057	0.2701	ug/mL#	1
6) bis2Clethletr	4.124	93	518749	16.0570	ug/mL	99
8) Phenol	4.016	94	710050	17.8413	ug/mL	83
9) 2-Cl-phenol	4.187	128	597753	16.4903	ug/mL	100
10) 13Diclbenz	4.360	146	647020	15.4528	ug/mL	97
11) 14Diclbenz	4.448	146	661314	15.5444	ug/mL	98
12) 12Diclbenz	4.624	146	637479	15.7928	ug/mL	97
13) Benzyl alcoho	4.596	108	96743	6.1031	ug/mL#	59
14) bis2clispreth	4.758	45	980876	15.9406	ug/mL	92
15) 2Methylphenol	4.727	108	541489	17.7931	ug/mL	99
16) Ntrspyrrol	4.906	100	256628	15.9547	ug/mL	84
17) Acetophenone	4.925	105	748105	16.4743	ug/mL	84
18) Hexaclethane	5.050	117	213985	15.0782	ug/mL	97
19) N-Ntrsdinprop	4.934	70	333326	16.3997	ug/mL	97
20) 3&4Methylphenol	4.931	108	553516	18.2373	ug/mL	97
23) Nitrobenzene	5.153	77	518701	16.7963	ug/mL	84
24) Isophorone	5.508	82	1071211	15.7151	ug/mL	92
25) 2-Nitrophenol	5.607	139	372459	16.1303	ug/mL	75
26) 24Dimthpheno	5.687	107	567423	16.2164	ug/mL	88
27) bis2clethoxym	5.815	93	769108	16.3654	ug/mL	90
28) 24Diclphenol	5.914	162	570941	17.4746	ug/mL	98
29) 124Triclbenz	6.011	180	647926	16.0168	ug/mL	97
30) Benzoic acid	5.778	105	134224	7.8256	ug/mL	84
31) Naphthalene	6.093	128	2141295	16.7491	ug/mL	99
32) 4-Cl-aniline	6.170	127	14265	0.2975	ug/mL#	66
33) 26Diclphenol	6.170	162	495155	16.7372	ug/mL	95
34) Hexaclprop	6.190	213	264873	12.7322	ug/mL	97
35) Hexaclbutdien	6.235	225	302395	15.8990	ug/mL	97
36) 4Cl3methylphe	6.667	107	557711	17.8464	ug/mL	87
37) 2Methylnaphth	6.781	141	1216411	17.0452	ug/mL	98
38) 1Methylnaphth	6.863	141	1235033	16.6741	ug/mL	98
40) Hxclcycpentdi	6.912	237	161177	7.8308	ug/mL	96

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\870201MS.D Vial: 5
Acq On : 2 Dec 2010 20:06 Operator: RPN
Sample : 72180,MSS870201,1 Inst : SVMS2
Misc : 874146,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 13 16:13:40 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Mon Dec 13 16:13:34 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

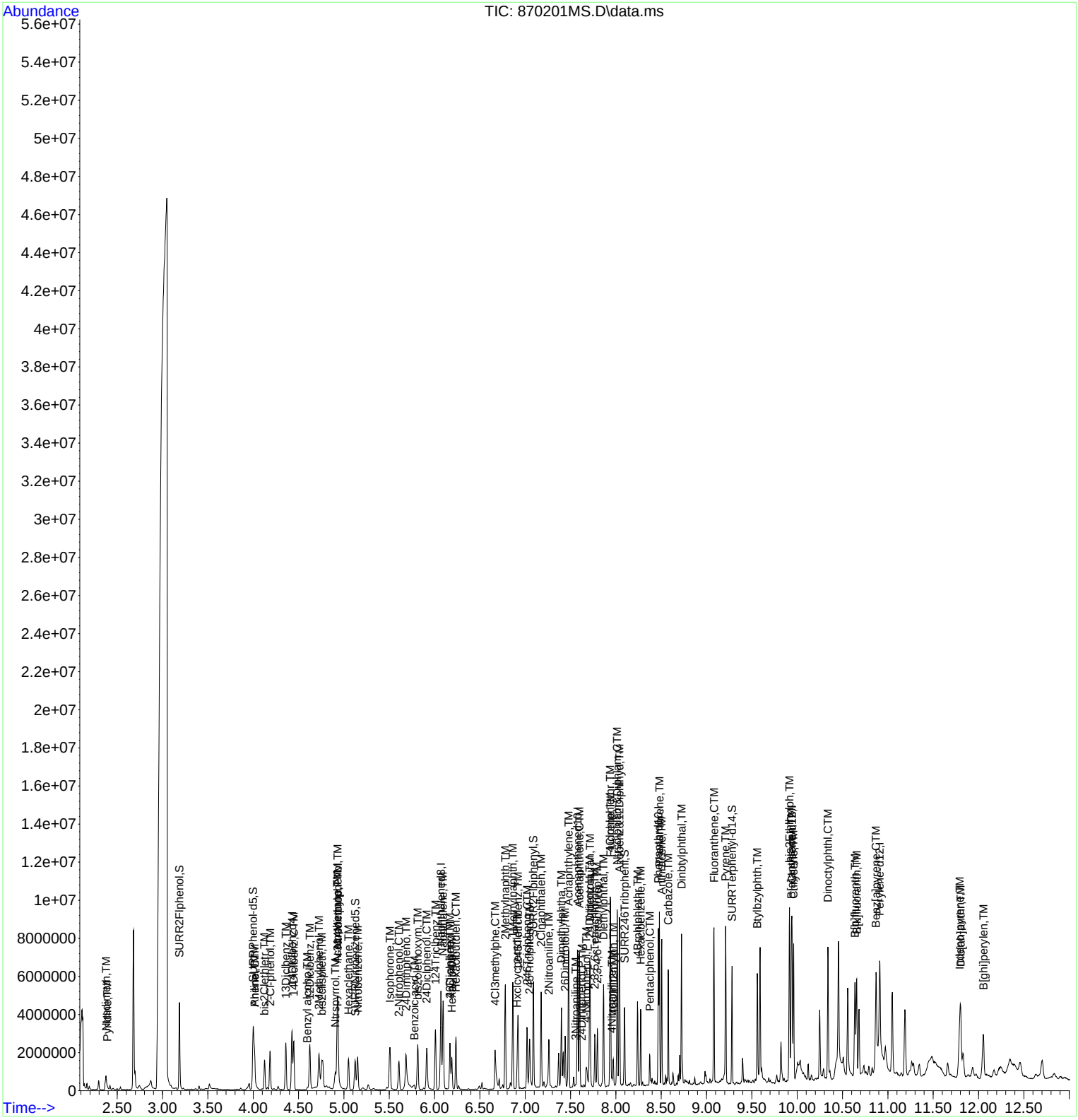
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	6.920	216	571925	16.7090 ug/mL	98
42) 246Triclpheno	7.022	196	401164	17.7930 ug/mL	93
43) 245Triclpheno	7.048	196	451058	18.8357 ug/mL	96
45) 2Clnaphthalen	7.176	162	1255940	16.9183 ug/mL	98
46) 2Nitroaniline	7.261	65	307358	17.7315 ug/mL#	76
47) Acnaphthylene	7.480	152	2187033	17.1959 ug/mL	98
48) Dimethylphtha	7.400	163	1506970	17.2742 ug/mL	100
49) 26Dinitrotolu	7.440	165	344439	18.2532 ug/mL	83
50) Acenaphthene	7.599	153	1400361	17.5130 ug/mL	98
51) 3Nitroaniline	7.557	138	49467	2.4493 ug/mL	78
52) 24Dinitphenol	7.625	184	15390	3.5902 ug/mL	85
53) Dibenzofuran	7.716	168	1836299	17.6497 ug/mL	94
54) 24Dinitrotolu	7.710	165	425337	18.2085 ug/mL	86
55) 4-Nitrophenol	7.673	109	126109	19.4852 ug/mL	80
56) 2,3,5,6-Tetrachlorop	7.767	232	303099	16.7152 ug/mL	97
57) 2,3,4,6-Tetrachlorop	7.795	232	329300	17.2732 ug/mL	96
58) Fluorene	7.940	166	1465162	17.4648 ug/mL	99
59) 4Clphlphlethr	7.937	204	646325	17.3199 ug/mL	97
60) Diethylphthal	7.863	149	1587918	18.0333 ug/mL	99
61) 4Nitroaniline	7.957	138	104724	5.2836 ug/mL#	70
64) 46Dinit2mylph	7.971	198	177436	12.7249 ug/mL	90
65) Ntrsdiphlam&Diphlam	8.014	169	1928927	33.7481 ug/mL	98
66) Azobenz&12Diphlhyd	8.040	182	730295	33.8212 ug/mL#	73
67) 4Brphlphlethr	8.239	248	369425	17.6915 ug/mL	89
68) Hexaclbenzene	8.273	284	366211	16.9077 ug/mL	94
69) Pentaclphenol	8.375	266	148933	14.6569 ug/mL	98
70) Phenanthrene	8.480	178	2023478	19.8313 ug/mL	99
71) Anthracene	8.506	178	1798768	17.3885 ug/mL	98
72) Carbazole	8.577	167	1562076	17.8248 ug/mL	99
73) Dinbtylphthal	8.724	149	2283975	19.3029 ug/mL	99
74) Fluoranthene	9.082	202	2279370	22.1374 ug/mL	96
76) Benzidine	9.165	184	2168	Below Cal	76
77) Pyrene	9.210	202	2250660	21.0561 ug/mL	94
79) Btylbzylphth	9.560	149	941742	18.1201 ug/mL	90
80) 33Diclbnzidin	0.000		0	N.D.	
81) B[a]anthracen	9.935	228	1879090	18.8504 ug/mL	99
82) Chrysene	9.960	228	1813648	18.9892 ug/mL	99
83) bis2Ethlhxlph	9.915	149	2034503	26.9344 ug/mL	99
84) Dinoctylphthl	10.338	149	2453600	18.2814 ug/mL	99
86) B[b]fluoranth	10.637	252	1809175	18.9526 ug/mL	98
87) B[k]fluoranth	10.657	252	1673438	18.5591 ug/mL	98
88) Benz[a]pyrene	10.870	252	1578749	18.1202 ug/mL	98
89) Indeno-pyrene	11.793	276	1517028	17.1479 ug/mL	89
90) Dib[ah]anthr	11.805	278	1142616	15.9184 ug/mL	98
91) B[ghi]perylen	12.055	276	1192652	16.2302 ug/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\870201MS.D Vial: 5
Acq On : 2 Dec 2010 20:06 Operator: RPN
Sample : 72180,MSS870201,1 Inst : SVMS2
Misc : 874146,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 13 16:13:40 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Mon Dec 13 16:13:34 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\870201SR.D Vial: 5
Acq On : 2 Dec 2010 22:26 Operator: RPN
Sample : 72180,MSS870201,1 Inst : SVMS2
Misc : 874146,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 05 16:49:50 2010

RPN 12/05/10

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 14:33:20 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.428	152	561411	20.00	ug/mL	0.00
21) Naphthalened8	6.068	136	2584333	20.00	ug/mL	0.00
39) Acenaphthened10	7.574	164	1324710	20.00	ug/mL	0.00
63) Phenanthrd10	8.466	188	1983037	20.00	ug/mL	0.00
75) Chrysene-d12	9.938	240	1804255	20.00	ug/mL	0.00
85) Perylene-d12	10.909	264	1500695	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	3.189	112	1168319	83.59	%REC	0.03
Spiked Amount 100.000	Range 20 - 110		Recovery = 83.59%			
7) SURRPhenol-d5	4.002	99	1454395	86.63	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 86.63%			
22) SURRNitrbenzened5	5.127	82	536570	86.04	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 86.04%			
44) SURR2Flbiphenyl	7.085	172	1510420	87.14	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 87.14%			
62) SURR246Tribrphenl	8.091	330	410643	102.52	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 102.52%			
78) SURRTerphenyl-d14	9.276	244	1207245	92.12	ug/mL	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 92.12%			
Target Compounds						Qvalue
2) Ntrsdimeth	2.377	74	270435	13.5660	ug/mL	86
3) Pyridine	2.388	79	732	0.0207	ug/mL	85
5) Aniline	4.019	93	12222	0.2258	ug/mL#	1
6) bis2Clethletr	4.127	93	537122	15.9901	ug/mL	97
8) Phenol	4.019	94	720799	17.4190	ug/mL	84
9) 2-Cl-phenol	4.189	128	622746	16.5230	ug/mL	99
10) 13Diclbenz	4.360	146	680996	15.6425	ug/mL	98
11) 14Diclbenz	4.448	146	687053	15.5320	ug/mL	97
12) 12Diclbenz	4.624	146	659776	15.7203	ug/mL	94
13) Benzyl alcoho	4.596	108	284558	15.1425	ug/mL#	74
14) bis2clispreth	4.766	45	1007642	15.7496	ug/mL	96
15) 2Methylphenol	4.729	108	565096	17.8590	ug/mL	97
16) Ntrspyrrol	4.908	100	266715	15.9479	ug/mL	80
17) Acetophenone	4.928	105	769140	16.2900	ug/mL	84
18) Hexaclethane	5.050	117	210860	14.2900	ug/mL	99
19) N-Ntrsdinprop	4.934	70	330919	15.6589	ug/mL	98
20) 3&4Methylphenol	4.934	108	555900	17.6157	ug/mL	100
23) Nitrobenzene	5.153	77	526876	16.5375	ug/mL	85
24) Isophorone	5.511	82	1079278	15.3475	ug/mL	90
25) 2-Nitrophenol	5.607	139	375273	15.7535	ug/mL	77
26) 24Dimthpheno	5.684	107	576078	15.9585	ug/mL	85
27) bis2clethoxym	5.815	93	783689	16.1639	ug/mL	87
28) 24Diclphenol	5.914	162	579534	17.1933	ug/mL	97
29) 124Triclbenz	6.008	180	673718	16.1433	ug/mL	98
30) Benzoic acid	5.775	105	132717	7.6222	ug/mL	82
31) Naphthalene	6.093	128	2191948	16.6192	ug/mL	99
32) 4-Cl-aniline	6.170	127	13061	0.2640	ug/mL	74
33) 26Diclphenol	6.167	162	510143	16.7146	ug/mL	95
34) Hexaclprop	6.187	213	186522	8.6908	ug/mL	98
35) Hexaclbutdien	6.232	225	315717	16.0901	ug/mL	97
36) 4Cl3methylphe	6.664	107	575266	17.8433	ug/mL	89
37) 2Methylnaphth	6.778	141	1238336	16.8199	ug/mL	97
38) 1Methylnaphth	6.860	141	1251130	16.3731	ug/mL	98
40) Hxclcycpentdi	6.909	237	88463	4.3797	ug/mL	93

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\870201SR.D Vial: 5
Acq On : 2 Dec 2010 22:26 Operator: RPN
Sample : 72180,MSS870201,1 Inst : SVMS2
Misc : 874146,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 05 16:49:50 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 14:33:20 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

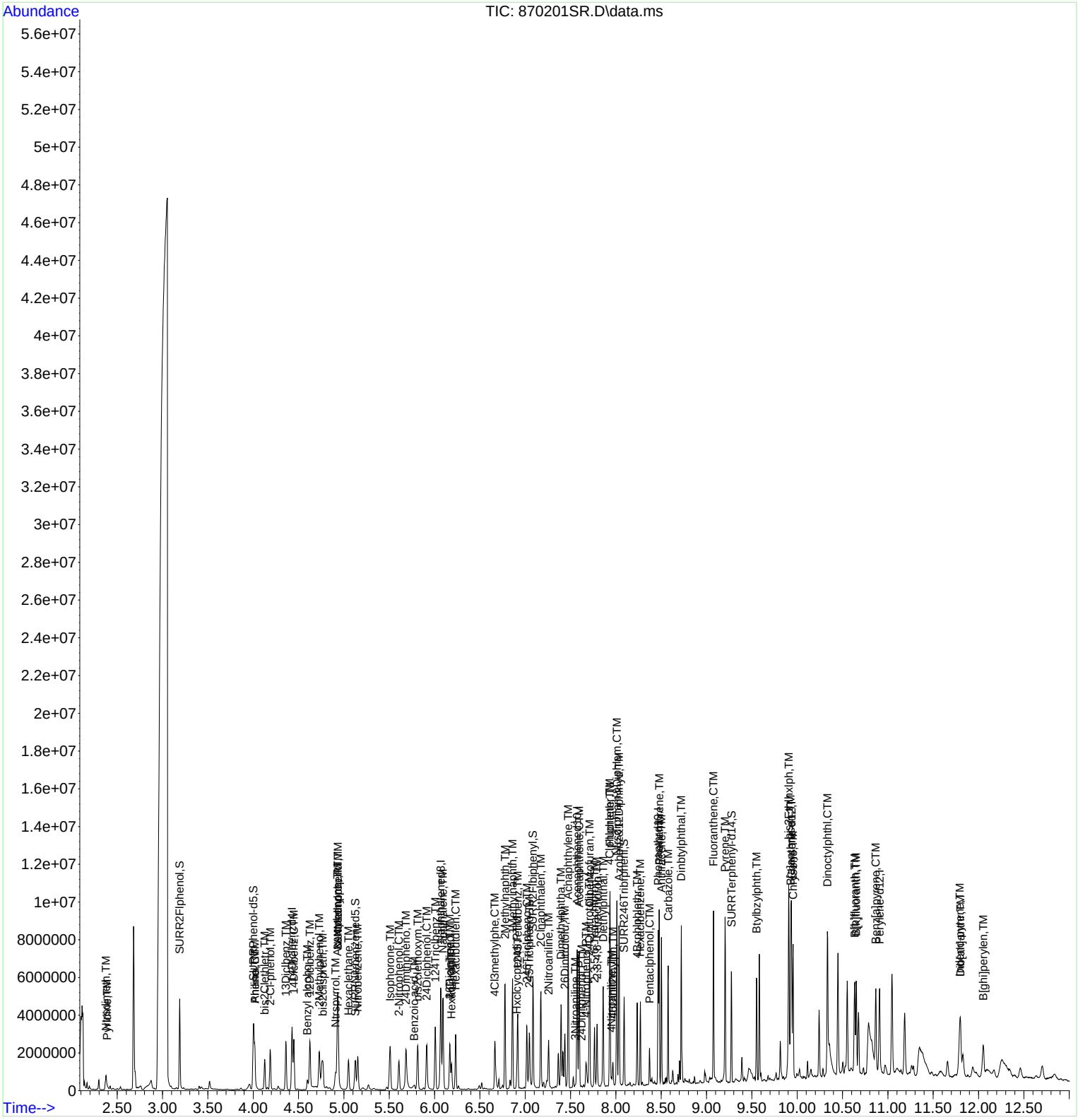
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	6.917	216	600768	17.0267 ug/mL	99
42) 246Triclpheno	7.019	196	409461	17.6178 ug/mL	92
43) 245Triclpheno	7.045	196	462187	18.7232 ug/mL	99
45) 2Clnaphthalen	7.173	162	1289614	16.8523 ug/mL	97
46) 2Nitroaniline	7.258	65	303134	16.9647 ug/mL#	63
47) Acnaphthylene	7.474	152	2224149	16.9647 ug/mL	98
48) Dimethylphtha	7.395	163	1543582	17.1646 ug/mL	100
49) 26Dinitrotolu	7.437	165	350108	17.9987 ug/mL	84
50) Acenaphthene	7.596	153	1423626	17.2715 ug/mL	100
51) 3Nitroaniline	7.551	138	44806	2.1522 ug/mL#	60
52) 24Dinitphenol	7.622	184	15994	3.6001 ug/mL	80
53) Dibenzofuran	7.710	168	1848953	17.2398 ug/mL	96
54) 24Dinitrotolu	7.704	165	438503	18.2107 ug/mL	85
55) 4-Nitrophenol	7.670	109	115981	17.3844 ug/mL	84
56) 2,3,5,6-Tetrachlorop	7.764	232	322729	17.2511 ug/mL	96
57) 2,3,4,6-Tetrachlorop	7.792	232	358305	18.2162 ug/mL	93
58) Fluorene	7.934	166	1485568	17.1784 ug/mL	99
59) 4Clphlphlethr	7.932	204	666061	17.3149 ug/mL	97
60) Diethylphthal	7.861	149	1598830	17.6141 ug/mL	99
61) 4Nitroaniline	7.951	138	89473	4.3791 ug/mL#	68
64) 46Dinit2mylph	7.968	198	161286	11.2240 ug/mL#	55
65) Ntrsdiphlam&Diphlam	8.011	169	1959112	33.2609 ug/mL	99
66) Azobenz&12Diphlhyd	8.034	182	742518	33.3686 ug/mL#	77
67) 4Brphlphlethr	8.236	248	380676	17.6903 ug/mL	89
68) Hexaclbenzene	8.270	284	379954	17.0225 ug/mL	96
69) Pentaclphenol	8.372	266	160446	15.2033 ug/mL	96
70) Phenanthrene	8.477	178	2103755	20.0073 ug/mL	100
71) Anthracene	8.503	178	1858562	17.4343 ug/mL	98
72) Carbazole	8.577	167	1601312	17.7312 ug/mL	98
73) Dinbtylphthal	8.721	149	2328479	19.0960 ug/mL	98
74) Fluoranthene	9.077	202	2335495	22.0105 ug/mL	96
76) Benzidine	9.128	184	1459	Below Cal #	1
77) Pyrene	9.205	202	2324986	21.6088 ug/mL	93
79) Btylbzylphth	9.551	149	943082	18.0269 ug/mL	90
80) 33Diclbnzidin	9.955	252	2995	Below Cal #	60
81) B[a]anthracen	9.929	228	1890711	18.8426 ug/mL	99
82) Chrysene	9.955	228	1841203	19.1513 ug/mL	99
83) bis2Ethlhxlph	9.906	149	1977246	26.0048 ug/mL	99
84) Dinoctylphthl	10.333	149	2361228	17.4778 ug/mL	99
86) B[b]fluoranth	10.634	252	1783283	20.1737 ug/mL	97
87) B[k]fluoranth	10.651	252	1561119	18.6966 ug/mL	97
88) Benz[a]pyrene	10.867	252	1479634	18.3393 ug/mL	97
89) Indeno-pyrene	11.793	276	1141396	13.9325 ug/mL	96
90) Dib[ah]anthr	11.802	278	883571	13.2928 ug/mL	97
91) B[ghi]perylen	12.052	276	828266	12.1719 ug/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\870201SR.D Vial: 5
Acq On : 2 Dec 2010 22:26 Operator: RPN
Sample : 72180,MSS870201,1 Inst : SVMS2
Misc : 874146,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 05 16:49:50 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 14:33:20 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\870201SD.D Vial: 6
Acq On : 2 Dec 2010 20:26 Operator: RPN
Sample : 72180,MSDS870201,1 Inst : SVMS2
Misc : 874147,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 13 16:15:47 2010

RPN 12/10/10

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Mon Dec 13 16:15:42 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.428	152	534794	20.00	ug/mL	0.00
21) Naphthalened8	6.073	136	2454441	20.00	ug/mL	0.00
39) Acenaphthened10	7.579	164	1277919	20.00	ug/mL	0.00
63) Phenanthrd10	8.471	188	1917039	20.00	ug/mL	0.00
75) Chrysene-d12	9.938	240	1788125	20.00	ug/mL	0.00
85) Perylene-d12	10.907	264	1599522	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	3.195	112	1127162	84.66	%REC	0.03
Spiked Amount 100.000	Range 20 - 110		Recovery = 84.66%			
7) SURRPhenol-d5	4.002	99	1370177	85.68	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 85.68%			
22) SURRNitrbenzened5	5.124	82	517949	87.45	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 87.45%			
44) SURR2Flbiphenyl	7.093	172	1459921	87.32	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 87.32%			
62) SURR246Tribrphenl	8.099	330	385346	99.73	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 99.73%			
78) SURRTerphenyl-d14	9.278	244	1169360	90.03	ug/mL	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 90.03%			
Target Compounds						Qvalue
2) Ntrsdimeth	2.377	74	261968	13.7953	ug/mL	86
3) Pyridine	2.394	79	338	N.D.		
5) Aniline	4.016	93	14630	0.2838	ug/mL#	1
6) bis2Clethletr	4.127	93	518337	16.1989	ug/mL	99
8) Phenol	4.016	94	709147	17.9904	ug/mL	85
9) 2-Cl-phenol	4.187	128	607298	16.9151	ug/mL	98
10) 13Diclbenz	4.360	146	659140	15.8940	ug/mL	97
11) 14Diclbenz	4.448	146	671136	15.9273	ug/mL	99
12) 12Diclbenz	4.624	146	647070	16.1849	ug/mL	95
13) Benzyl alcoho	4.596	108	133534	8.0981	ug/mL#	67
14) bis2clispreth	4.766	45	1000624	16.4183	ug/mL	95
15) 2Methylphenol	4.726	108	545802	18.1077	ug/mL	92
16) Ntrspyrrol	4.905	100	267725	16.8051	ug/mL	83
17) Acetophenone	4.928	105	740281	16.4591	ug/mL	84
18) Hexaclethane	5.050	117	216206	15.3815	ug/mL	95
19) N-Ntrsdinprop	4.934	70	321629	15.9768	ug/mL	95
20) 3&4Methylphenol	4.931	108	562138	18.6999	ug/mL	98
23) Nitrobenzene	5.153	77	513344	16.9654	ug/mL	83
24) Isophorone	5.508	82	1092494	16.3576	ug/mL	97
25) 2-Nitrophenol	5.607	139	374900	16.5707	ug/mL	81
26) 24Dimthpheno	5.687	107	597202	17.4192	ug/mL	90
27) bis2clethoxym	5.815	93	764020	16.5922	ug/mL	88
28) 24Diclphenol	5.917	162	583344	18.2222	ug/mL	97
29) 124Triclbenz	6.011	180	651357	16.4335	ug/mL	97
30) Benzoic acid	5.769	105	89406	6.2580	ug/mL	77
31) Naphthalene	6.096	128	2137272	17.0622	ug/mL	100
32) 4-Cl-aniline	6.176	127	14846	0.3160	ug/mL	83
33) 26Diclphenol	6.173	162	516484	17.8179	ug/mL	95
34) Hexaclprop	6.190	213	254632	12.4922	ug/mL	100
35) Hexaclbutdien	6.238	225	301197	16.1624	ug/mL	95
36) 4Cl3methylphe	6.670	107	572335	18.6919	ug/mL	85
37) 2Methylnaphth	6.784	141	1229673	17.5861	ug/mL	97
38) 1Methylnaphth	6.866	141	1244560	17.1491	ug/mL	97
40) Hxclcycpentdi	6.914	237	161327	7.8791	ug/mL	99

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\870201SD.D Vial: 6
Acq On : 2 Dec 2010 20:26 Operator: RPN
Sample : 72180,MSDS870201,1 Inst : SVMS2
Misc : 874147,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 13 16:15:47 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Mon Dec 13 16:15:42 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

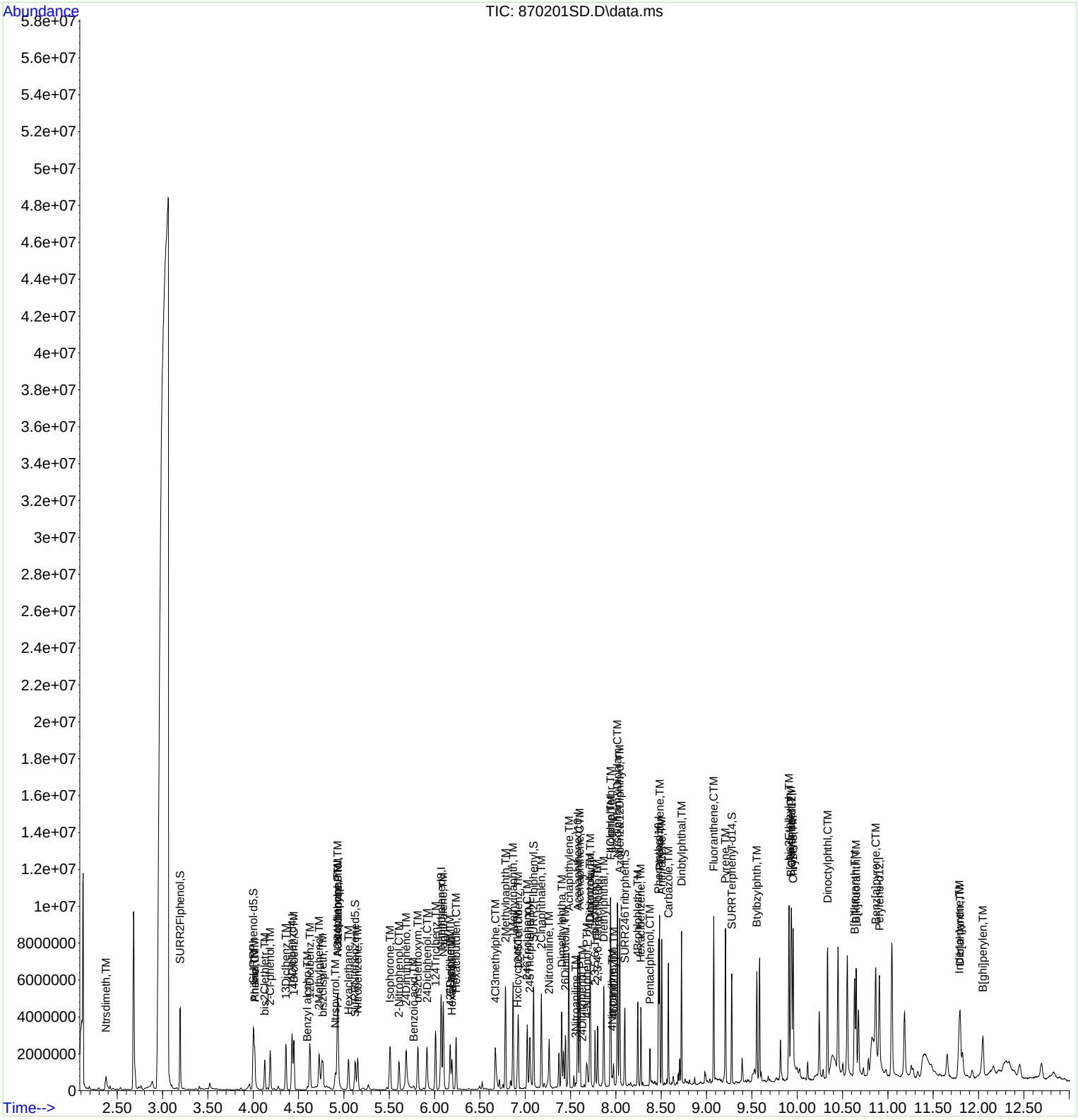
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	6.923	216	580008	17.0402 ug/mL	93
42) 246Triclpheno	7.022	196	413801	18.4565 ug/mL	94
43) 245Triclpheno	7.051	196	462420	19.4185 ug/mL	99
45) 2Clnaphthalen	7.179	162	1287508	17.4408 ug/mL	98
46) 2Nitroaniline	7.264	65	310436	18.0095 ug/mL#	65
47) Acnaphthylene	7.483	152	2220980	17.5608 ug/mL	98
48) Dimethylphtha	7.403	163	1538478	17.7343 ug/mL	99
49) 26Dinitrotolu	7.443	165	343325	18.2963 ug/mL	82
50) Acenaphthene	7.602	153	1415355	17.7999 ug/mL	98
51) 3Nitroaniline	7.556	138	59215	2.9484 ug/mL	90
52) 24Dinitphenol	7.630	184	10387	3.2001 ug/mL	85
53) Dibenzofuran	7.718	168	1863906	18.0155 ug/mL	94
54) 24Dinitrotolu	7.713	165	437382	18.8292 ug/mL	86
55) 4-Nitrophenol	7.679	109	122555	19.0423 ug/mL	88
56) 2,3,5,6-Tetrachlorop	7.770	232	319533	17.6942 ug/mL	97
57) 2,3,4,6-Tetrachlorop	7.798	232	360426	18.9830 ug/mL	95
58) Fluorene	7.943	166	1492865	17.8948 ug/mL	98
59) 4Clphlphlethr	7.940	204	663941	17.8917 ug/mL	96
60) Diethylphthal	7.866	149	1617401	18.4711 ug/mL	98
61) 4Nitroaniline	7.960	138	130380	6.6149 ug/mL#	75
64) 46Dinit2mylph	7.974	198	146461	10.5432 ug/mL	80
65) Ntrsdiphlam&Diphlam	8.017	169	2002307	35.1645 ug/mL	100
66) Azobenz&12Diphlhyd	8.042	182	766537	35.6339 ug/mL#	70
67) 4Brphlphlethr	8.241	248	369119	17.7438 ug/mL	93
68) Hexaclbenzene	8.275	284	376815	17.4631 ug/mL	99
69) Pentaclphenol	8.375	266	159615	15.5687 ug/mL	95
70) Phenanthrene	8.483	178	2072951	20.3931 ug/mL	99
71) Anthracene	8.506	178	1842243	17.8761 ug/mL	99
72) Carbazole	8.579	167	1647724	18.8732 ug/mL	99
73) Dinbtylphthal	8.724	149	2368620	20.0940 ug/mL	99
74) Fluoranthene	9.079	202	2343384	22.8452 ug/mL	97
76) Benzidine	9.278	184	12832	Below Cal	78
77) Pyrene	9.207	202	2350399	22.0421 ug/mL	94
79) Btylbzylphth	9.554	149	968935	18.6881 ug/mL	90
80) 33Diclbnzidin	0.000		0	N.D.	
81) B[a]anthracen	9.932	228	1970025	19.8102 ug/mL	98
82) Chrysene	9.955	228	1903149	19.9742 ug/mL	100
83) bis2Ethlhxlph	9.909	149	2072129	27.4985 ug/mL	98
84) Dinoctylphthl	10.335	149	2524283	18.8533 ug/mL	99
86) B[b]fluoranth	10.634	252	2009640	21.3298 ug/mL	98
87) B[k]fluoranth	10.651	252	1673565	18.8049 ug/mL	98
88) Benz[a]pyrene	10.867	252	1663693	19.3465 ug/mL	96
89) Indeno-pyrene	11.787	276	1481834	16.9706 ug/mL	91
90) Dib[ah]anthr	11.796	278	1145619	16.1703 ug/mL	96
91) B[ghi]perylen	12.049	276	1144398	15.7786 ug/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\870201SD.D Vial: 6
Acq On : 2 Dec 2010 20:26 Operator: RPN
Sample : 72180,MSDS870201,1 Inst : SVMS2
Misc : 874147,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 13 16:15:47 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Mon Dec 13 16:15:42 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\870201DR.D Vial: 6
Acq On : 2 Dec 2010 22:47 Operator: RPN
Sample : 72179,MSDS870201,1 Inst : SVMS2
Misc : 874147,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 03 13:24:46 2010

RPN 12/10/10

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 14:33:20 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.428	152	530104	20.00	ug/mL	0.00
21) Naphthalened8	6.073	136	2490338	20.00	ug/mL	0.00
39) Acenaphthened10	7.579	164	1299820	20.00	ug/mL	0.00
63) Phenanthrd10	8.469	188	1927121	20.00	ug/mL	0.00
75) Chrysene-d12	9.938	240	1774363	20.00	ug/mL	0.00
85) Perylene-d12	10.907	264	1414941	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	3.195	112	1141845	86.53	%REC	0.03
Spiked Amount 100.000	Range 20 - 110		Recovery = 86.53%			
7) SURRPhenol-d5	4.005	99	1395476	88.03	%REC	0.01
Spiked Amount 100.000	Range 10 - 115		Recovery = 88.03%			
22) SURRNitrbenzened5	5.127	82	515421	85.77	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 85.77%			
44) SURR2Flbiphenyl	7.091	172	1489721	87.60	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 87.60%			
62) SURR246Tribrphenl	8.099	330	406720	103.49	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 103.49%			
78) SURRTerphenyl-d14	9.276	244	1205704	93.55	ug/mL	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 93.55%			
Target Compounds						Qvalue
2) Ntrsdimeth	2.377	74	289082	15.3579	ug/mL	82
3) Pyridine	2.388	79	415	N.D.		
5) Aniline	4.096	93	1864	0.0365	ug/mL#	2
6) bis2Clethletr	4.127	93	518528	16.3482	ug/mL	98
8) Phenol	4.019	94	721072	18.4547	ug/mL	86
9) 2-Cl-phenol	4.190	128	614929	17.2792	ug/mL	98
10) 13Diclbenz	4.363	146	661517	16.0924	ug/mL	97
11) 14Diclbenz	4.448	146	675992	16.1845	ug/mL	98
12) 12Diclbenz	4.627	146	649506	16.3896	ug/mL	96
13) Benzyl alcoho	4.599	108	295283	16.4775	ug/mL#	71
14) bis2clispreth	4.769	45	998937	16.5356	ug/mL	95
15) 2Methylphenol	4.732	108	572215	19.1520	ug/mL	95
16) Ntrspyrrol	4.911	100	267815	16.9595	ug/mL	82
17) Acetophenone	4.931	105	749990	16.8225	ug/mL	85
18) Hexaclethane	5.050	117	197735	14.1919	ug/mL	98
19) N-Ntrsdinprop	4.937	70	325517	16.3130	ug/mL	93
20) 3&4Methylphenol	4.934	108	562292	18.8705	ug/mL	98
23) Nitrobenzene	5.156	77	523783	17.0609	ug/mL	78
24) Isophorone	5.511	82	1099236	16.2213	ug/mL	94
25) 2-Nitrophenol	5.610	139	380079	16.5574	ug/mL	77
26) 24Dimthpheno	5.690	107	605981	17.4205	ug/mL	88
27) bis2clethoxym	5.818	93	798920	17.1000	ug/mL	88
28) 24Diclphenol	5.917	162	605579	18.6441	ug/mL	95
29) 124Triclbenz	6.011	180	662784	16.4807	ug/mL	98
30) Benzoic acid	5.852	105	781	2.9512	ug/mL#	33
31) Naphthalene	6.096	128	2160304	16.9974	ug/mL	100
32) 4-Cl-aniline	6.176	127	19031	0.3992	ug/mL	86
33) 26Diclphenol	6.173	162	517737	17.6037	ug/mL	94
34) Hexaclprop	6.190	213	157652	7.6229	ug/mL	97
35) Hexaclbutdien	6.238	225	314593	16.6379	ug/mL	96
36) 4Cl3methylphe	6.670	107	570161	18.3524	ug/mL	86
37) 2Methylnaphth	6.784	141	1262489	17.7952	ug/mL	98
38) 1Methylnaphth	6.866	141	1260685	17.1209	ug/mL	97
40) Hxclcycpentdi	6.912	237	84135	4.2589	ug/mL	94

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\870201DR.D Vial: 6
Acq On : 2 Dec 2010 22:47 Operator: RPN
Sample : 72179,MSDS870201,1 Inst : SVMS2
Misc : 874147,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 03 13:24:46 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 14:33:20 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

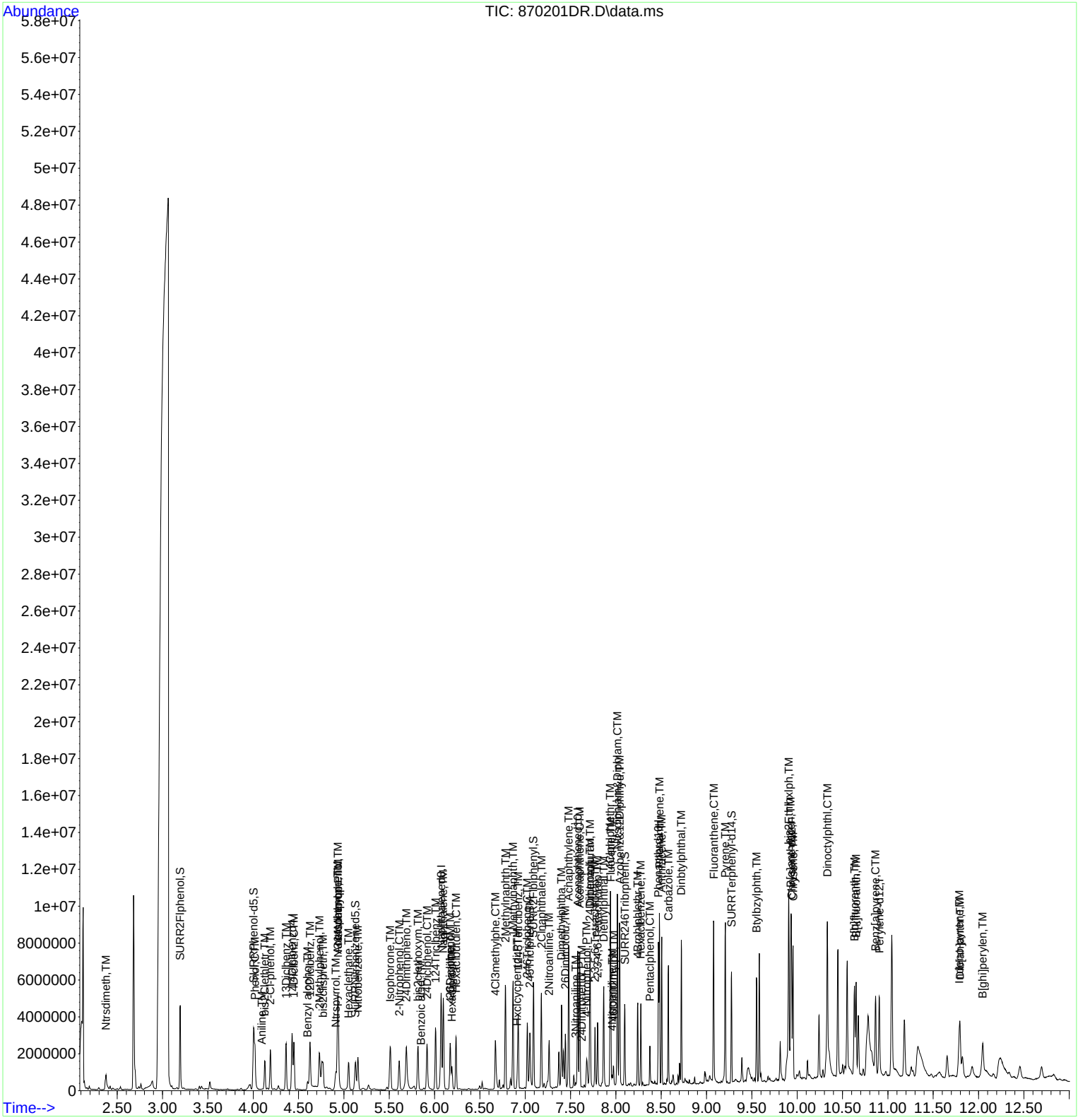
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	6.923	216	607499	17.5471 ug/mL	93
42) 246Triclpheno	7.022	196	422144	18.5114 ug/mL	92
43) 245Triclpheno	7.051	196	458318	18.9220 ug/mL	100
45) 2Clnaphthalen	7.179	162	1301272	17.3303 ug/mL	97
46) 2Nitroaniline	7.264	65	310594	17.7151 ug/mL#	68
47) Acnaphthylene	7.480	152	2266529	17.6189 ug/mL	98
48) Dimethylphtha	7.400	163	1569166	17.7833 ug/mL	99
49) 26Dinitrotolu	7.443	165	352167	18.4513 ug/mL	84
50) Acenaphthene	7.602	153	1451032	17.9411 ug/mL	100
51) 3Nitroaniline	7.557	138	64521	3.1585 ug/mL	82
52) 24Dinitphenol	7.625	184	9936	3.1511 ug/mL	92
53) Dibenzofuran	7.716	168	1884588	17.9085 ug/mL	95
54) 24Dinitrotolu	7.713	165	441144	18.6711 ug/mL	80
55) 4-Nitrophenol	7.676	109	120319	18.3799 ug/mL#	75
56) 2,3,5,6-Tetrachlorop	7.770	232	329000	17.9062 ug/mL	96
57) 2,3,4,6-Tetrachlorop	7.798	232	356617	18.4735 ug/mL	98
58) Fluorene	7.943	166	1505266	17.7394 ug/mL	99
59) 4Clphlphlethr	7.937	204	683233	18.1014 ug/mL	97
60) Diethylphthal	7.866	149	1626876	18.2663 ug/mL	99
61) 4Nitroaniline	7.960	138	116380	5.8051 ug/mL#	69
64) 46Dinit2mylph	7.974	198	131568	9.4216 ug/mL	84
65) Ntrsdiphlam&Diphlam	8.017	169	2042683	35.6860 ug/mL	98
66) Azobenz&12Diphlhyd	8.043	182	758809	35.0901 ug/mL#	66
67) 4Brphlphlethr	8.241	248	388604	18.5827 ug/mL	88
68) Hexaclbenzene	8.276	284	383676	17.6880 ug/mL	98
69) Pentaclphenol	8.375	266	165543	15.9784 ug/mL	98
70) Phenanthrene	8.480	178	2124142	20.7874 ug/mL	100
71) Anthracene	8.506	178	1887632	18.2208 ug/mL	99
72) Carbazole	8.580	167	1681794	19.1627 ug/mL	98
73) Dinbtylphthal	8.722	149	2398144	20.2380 ug/mL	99
74) Fluoranthene	9.080	202	2382390	23.1040 ug/mL	94
76) Benzidine	9.276	184	12491	Below Cal	88
77) Pyrene	9.208	202	2370594	22.4039 ug/mL	91
79) Btylbzylphth	9.551	149	968733	18.8291 ug/mL	91
80) 33Diclbnzidin	0.000		0	N.D.	
81) B[a]anthracen	9.929	228	1935523	19.6142 ug/mL	99
82) Chrysene	9.955	228	1903337	20.1311 ug/mL	99
83) bis2Ethlhxlph	9.907	149	2021458	27.0341 ug/mL	99
84) Dinoctylphthl	10.333	149	2378894	17.9052 ug/mL	98
86) B[b]fluoranth	10.631	252	1745009	20.9372 ug/mL	97
87) B[k]fluoranth	10.651	252	1626668	20.6623 ug/mL	99
88) Benz[a]pyrene	10.864	252	1470284	19.3278 ug/mL	97
89) Indeno-pyrene	11.788	276	1097215	14.2050 ug/mL	96
90) Dib[ah]anthr	11.796	278	860214	13.7258 ug/mL	98
91) B[ghi]perylen	12.046	276	805352	12.5524 ug/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\870201DR.D Vial: 6
Acq On : 2 Dec 2010 22:47 Operator: RPN
Sample : 72179,MSDS870201,1 Inst : SVMS2
Misc : 874147,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 03 13:24:46 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 14:33:20 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120810\2MBS02.D Vial: 19
Acq On : 8 Dec 2010 20:18 Operator: RPN
Sample : 72359,MBS,1 Inst : SVMS2
Misc : 877491,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 09 13:44:04 2010

RPN 12/09/10

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 09 13:42:46 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

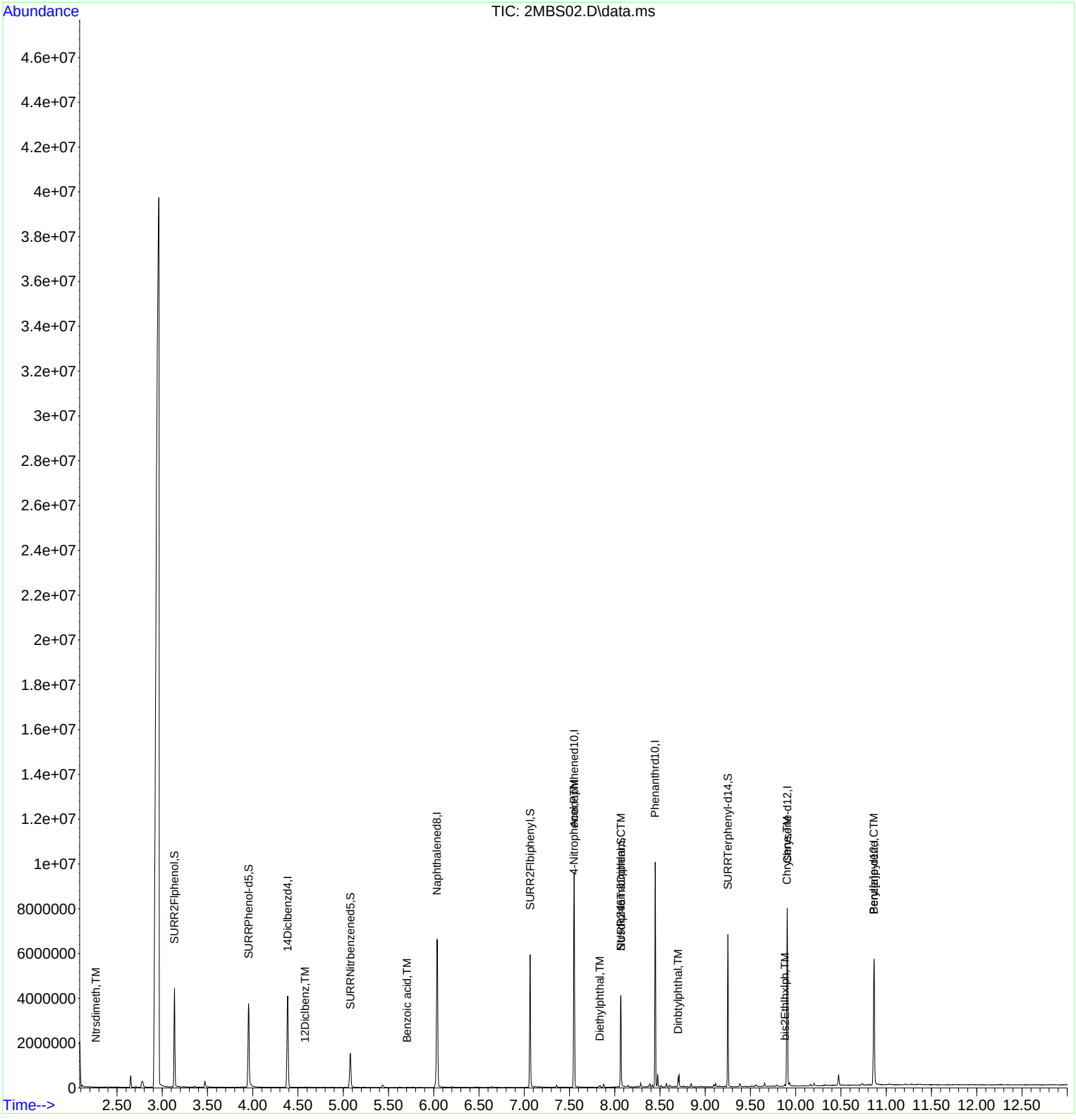
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.386	152	717652	20.00	ug/mL	0.00
21) Naphthalened8	6.037	136	3306199	20.00	ug/mL	0.00
39) Acenaphthened10	7.551	164	1641917	20.00	ug/mL	0.00
63) Phenanthrd10	8.446	188	2438993	20.00	ug/mL	0.00
75) Chrysene-d12	9.907	240	2181834	20.00	ug/mL	-0.02
85) Perylene-d12	10.864	264	1889978	20.00	ug/mL	-0.02
System Monitoring Compounds						
4) SURR2Flphenol	3.135	112	1059680	59.31	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery = 59.31%			
7) SURRPhenol-d5	3.954	99	1512252	70.47	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 70.47%			
22) SURRNitrbenzened5	5.079	82	502371	62.97	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 62.97%			
44) SURR2Flbiphenyl	7.065	172	1555789	72.42	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 72.42%			
62) SURR246Tribrphenl	8.068	330	347476	69.99	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 69.99%			
78) SURRTerphenyl-d14	9.250	244	1277512	80.61	ug/mL	-0.01
Spiked Amount 100.000	Range 50 - 135		Recovery = 80.61%			
Target Compounds						Qvalue
2) Ntrsdimeth	2.266	74	595	0.0233	ug/mL#	1
12) 12Diclbenz	4.579	146	5222	0.0973	ug/mL	75
30) Benzoic acid	5.704	105	317	2.9313	ug/mL#	35
55) 4-Nitrophenol	7.548	109	2421	0.2928	ug/mL	84
60) Diethylphthal	7.835	149	16793	0.1493	ug/mL	95
65) Ntrsdiphlam&Diphlam	8.068	169	11528	0.1591	ug/mL#	37
73) Dinbtylphthal	8.699	149	99399	0.6628	ug/mL	98
76) Benzidine	9.250	184	13113	Below Cal		88
82) Chrysene	9.904	228	4722	0.0406	ug/mL	65
83) bis2Ethlhxlph	9.881	149	17355	0.1888	ug/mL	92
88) Benz[a]pyrene	10.864	252	6414	0.0631	ug/mL	92

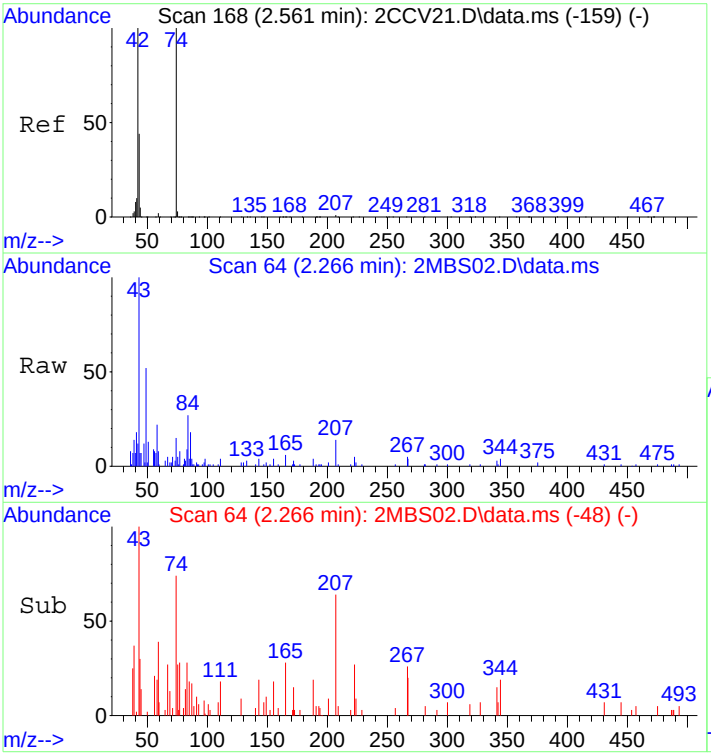
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120810\2MBS02.D Vial: 19
Acq On : 8 Dec 2010 20:18 Operator: RPN
Sample : 72359,MBS,1 Inst : SVMS2
Misc : 877491,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 09 13:44:04 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 09 13:42:46 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

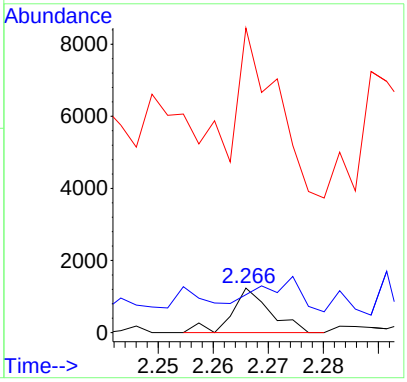


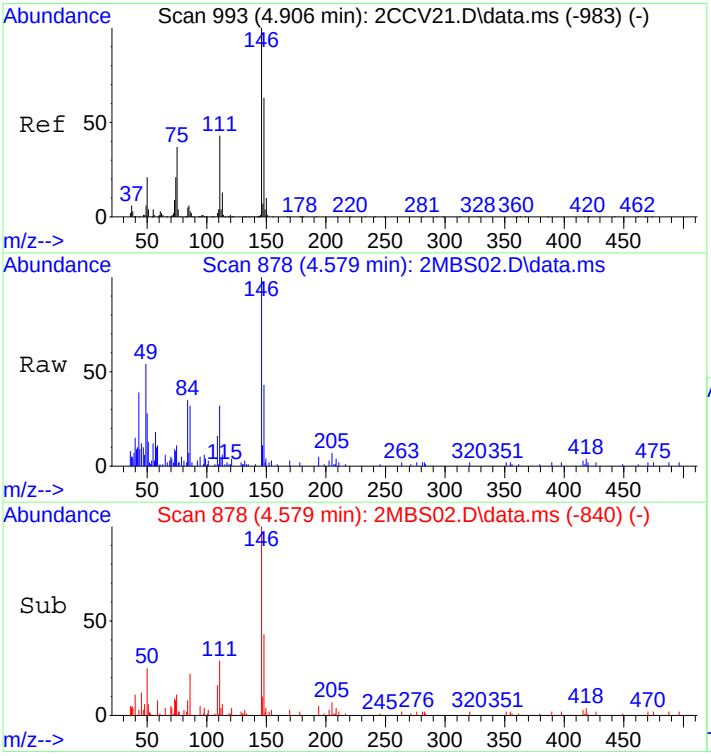


#2
Ntrsdimeth
Concen: 0.02 ug/mL
RT: 2.266 min Scan# 64
Delta R.T. -0.074 min
Lab File: 2MBS02.D
Acq: 8 Dec 10 8:18 pm

Tgt Ion: 74 Resp: 595

Ion	Ratio	Lower	Upper
74	100		
42	38.3	82.4	142.4#
43	432.0	17.7	77.7#

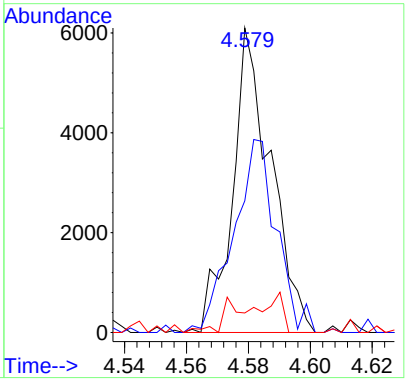


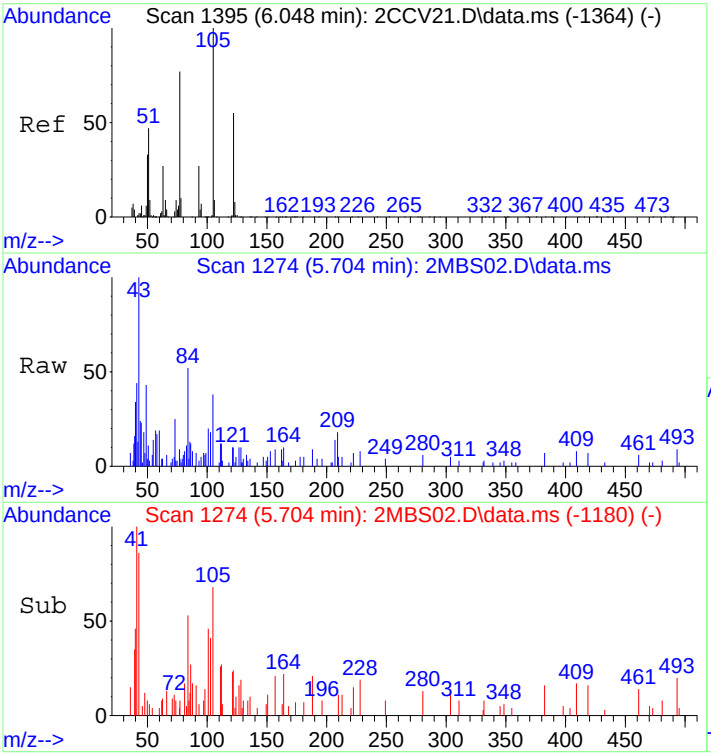


#12
12Diclbenz
Concen: 0.10 ug/mL
RT: 4.579 min Scan# 878
Delta R.T. -0.008 min
Lab File: 2MBS02.D
Acq: 8 Dec 10 8:18 pm

Tgt Ion:146 Resp: 5222

Ion	Ratio	Lower	Upper
146	100		
148	38.9	29.2	89.2
113	5.7	0.0	42.9

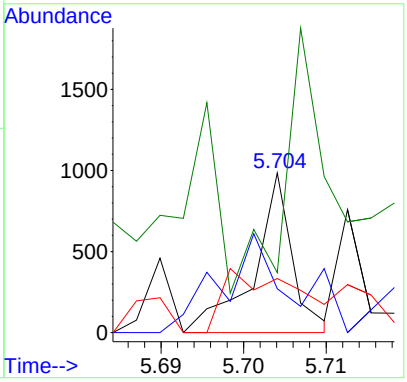


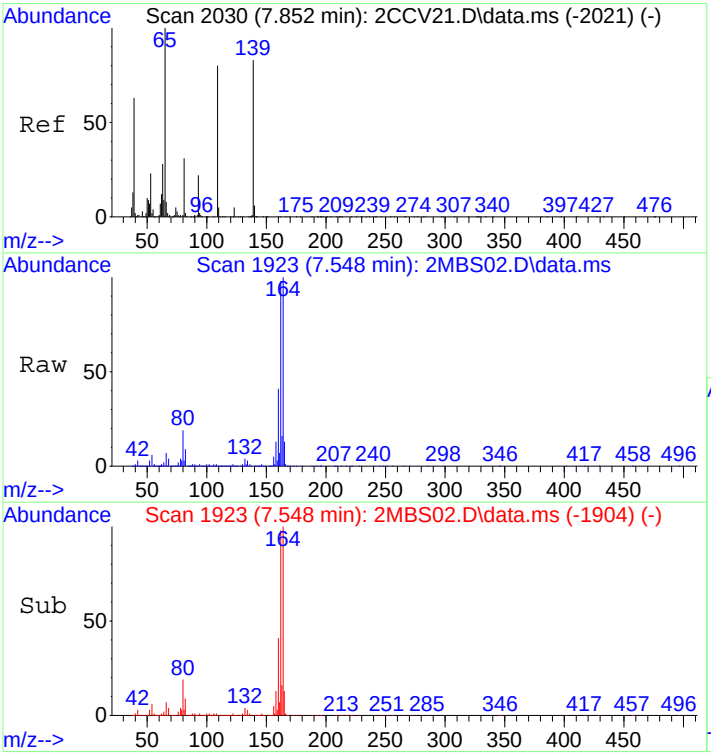


#30
Benzoic acid
Concen: 2.93 ug/mL
RT: 5.704 min Scan# 1274
Delta R.T. -0.008 min
Lab File: 2MBS02.D
Acq: 8 Dec 10 8:18 pm

Tgt Ion:105 Resp: 317

Ion	Ratio	Lower	Upper
105	100		
122	16.0	54.1	114.1#
77	33.9	45.9	105.9#
51	0.0	17.6	77.6#

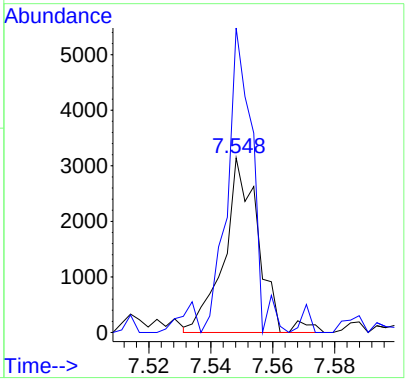


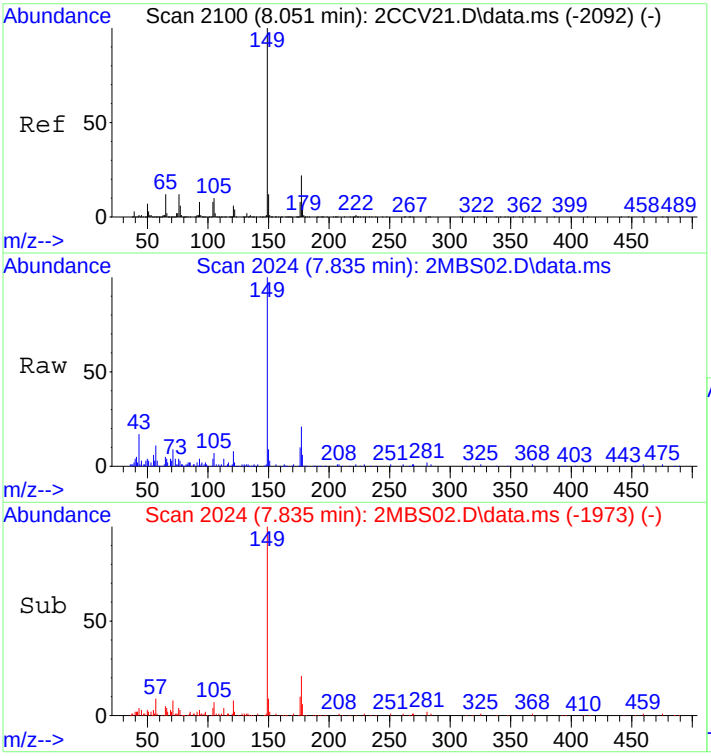


#55
4-Nitrophenol
Concen: 0.29 ug/mL
RT: 7.548 min Scan# 1923
Delta R.T. -0.091 min
Lab File: 2MBS02.D
Acq: 8 Dec 10 8:18 pm

Tgt Ion:109 Resp: 2421

Ion	Ratio	Lower	Upper
109	100		
65	174.5	123.5	183.5

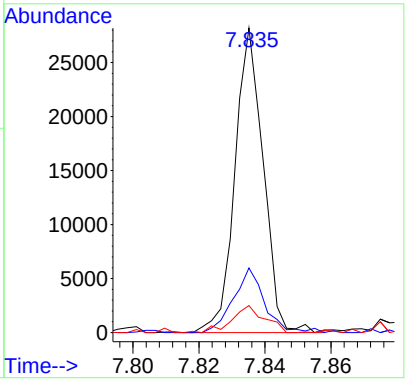


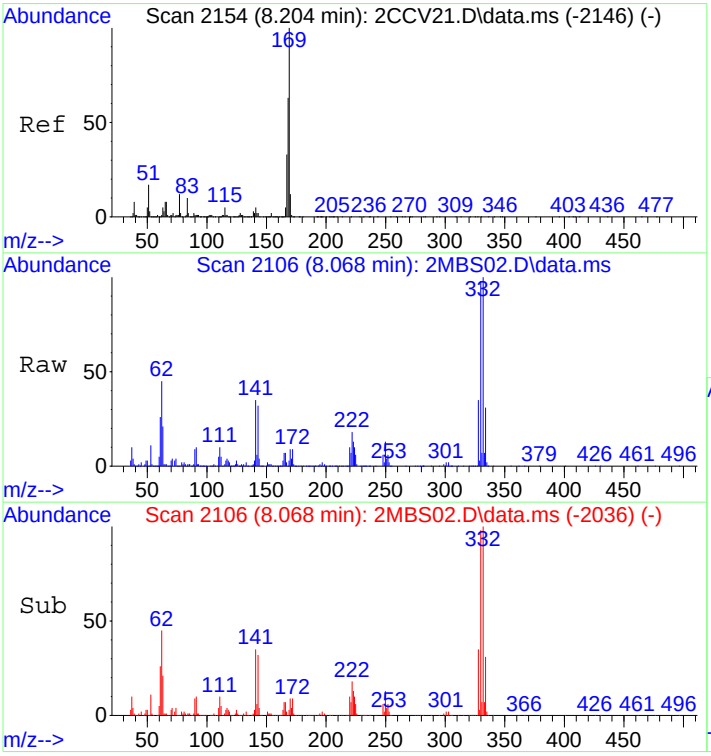


#60
Diethylphthal
Concen: 0.15 ug/mL
RT: 7.835 min Scan# 2024
Delta R.T. 0.000 min
Lab File: 2MBS02.D
Acq: 8 Dec 10 8:18 pm

Tgt Ion:149 Resp: 16793

Ion	Ratio	Lower	Upper
149	100		
177	21.2	0.0	52.2
150	8.9	0.0	42.5

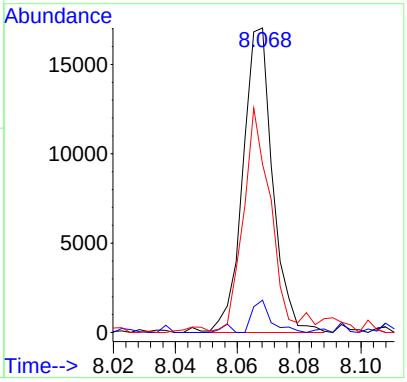


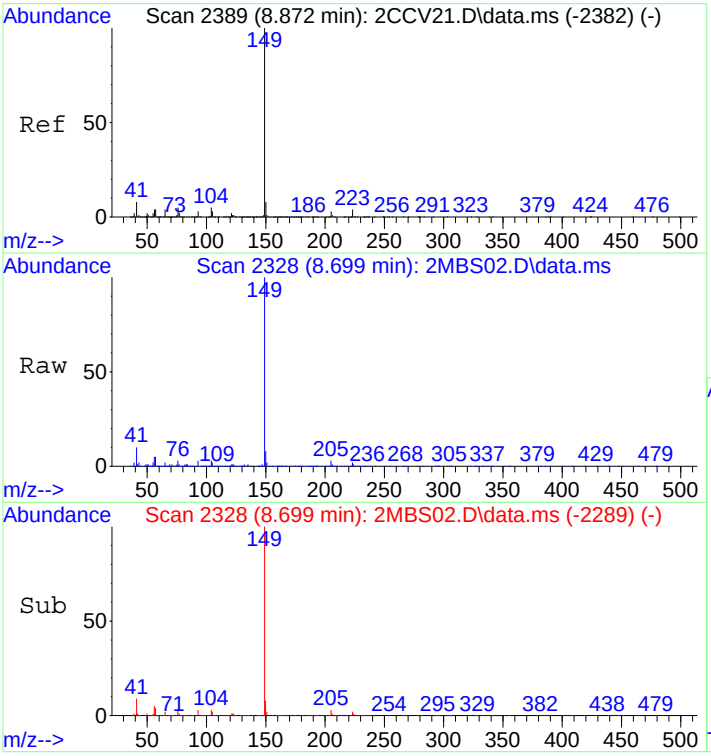


#65
Ntrsdiphlam&Diphlam
Concen: 0.16 ug/mL
RT: 8.068 min Scan# 2106
Delta R.T. 0.083 min
Lab File: 2MBS02.D
Acq: 8 Dec 10 8:18 pm

Tgt Ion:169 Resp: 11528

Ion	Ratio	Lower	Upper
169	100		
168	10.6	34.8	94.8#
167	65.0	4.6	64.6#

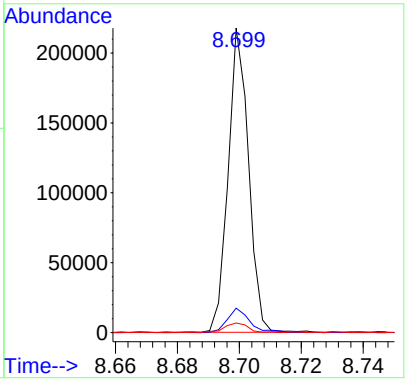


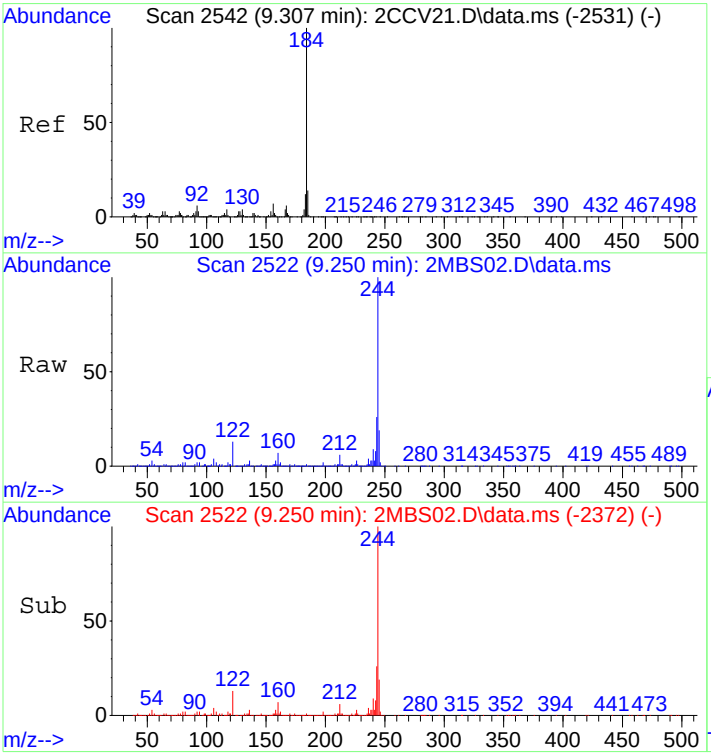


#73
Dinbtylphthal
Concen: 0.66 ug/mL
RT: 8.699 min Scan# 2328
Delta R.T. -0.006 min
Lab File: 2MBS02.D
Acq: 8 Dec 10 8:18 pm

Tgt Ion:149 Resp: 99399

Ion	Ratio	Lower	Upper
149	100		
150	8.1	0.0	38.5
104	3.2	0.0	34.3

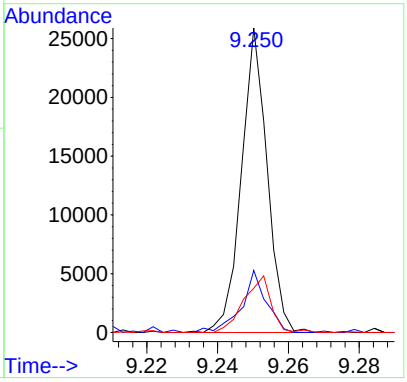


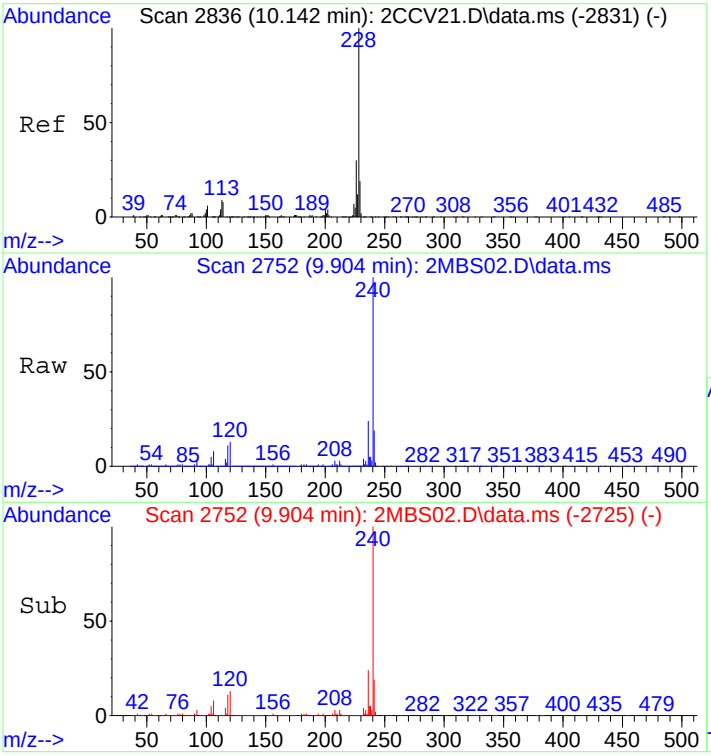


#76
Benzidine
Concen: Below ug/mL
RT: 9.250 min Scan# 2522
Delta R.T. 0.125 min
Lab File: 2MBS02.D
Acq: 8 Dec 10 8:18 pm

Tgt Ion:184 Resp: 13113

Ion	Ratio	Lower	Upper
184	100		
185	20.4	0.0	43.8
183	14.5	0.0	41.8

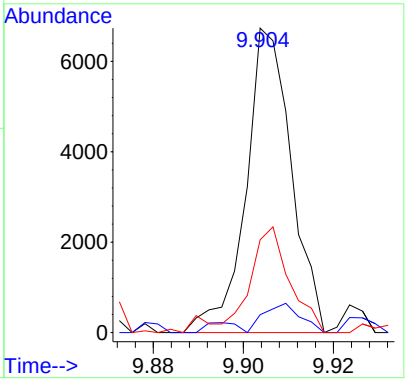


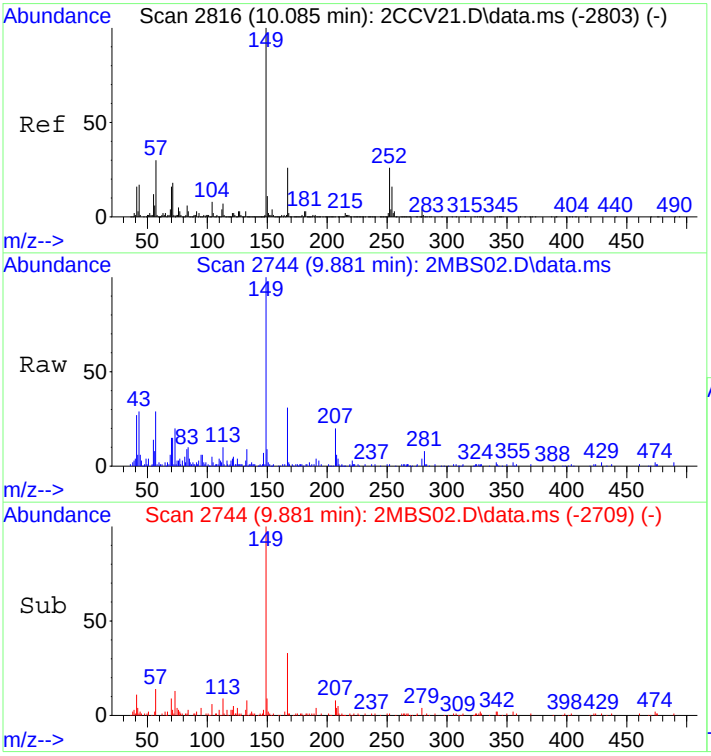


#82
Chrysene
Concen: 0.04 ug/mL
RT: 9.904 min Scan# 2752
Delta R.T. -0.040 min
Lab File: 2MBS02.D
Acq: 8 Dec 10 8:18 pm

Tgt Ion:228 Resp: 4722

Ion	Ratio	Lower	Upper
228	100		
226	5.9	0.0	58.6
229	30.5	0.0	49.6

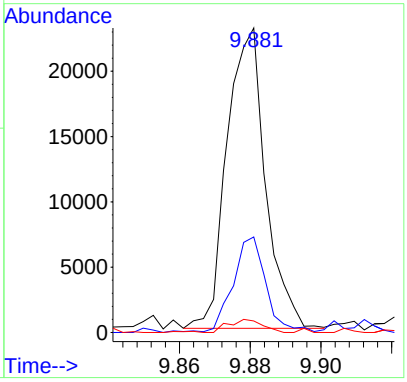


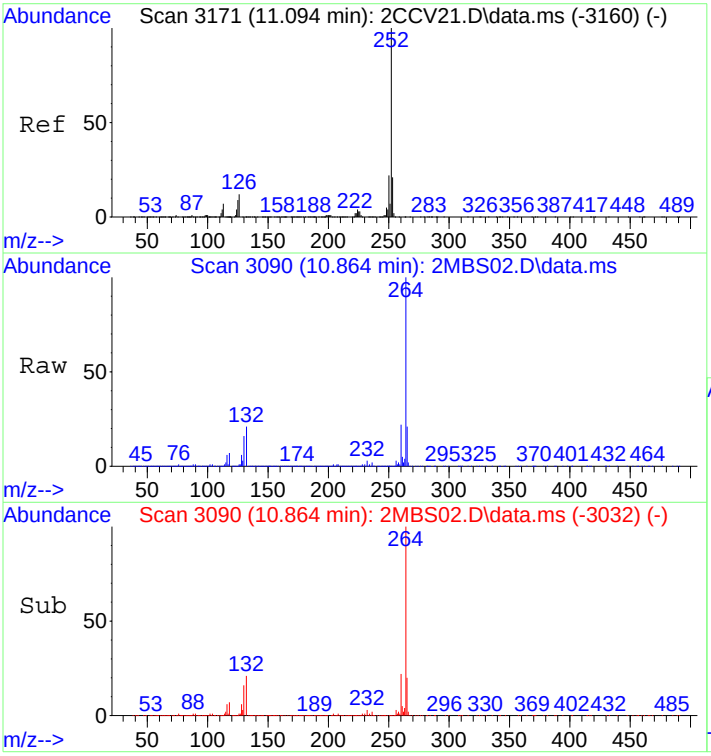


#83
bis2Ethlhxlph
Concen: 0.19 ug/mL
RT: 9.881 min Scan# 2744
Delta R.T. -0.017 min
Lab File: 2MBS02.D
Acq: 8 Dec 10 8:18 pm

Tgt Ion:149 Resp: 17355

Ion	Ratio	Lower	Upper
149	100		
167	31.5	0.0	56.9
279	3.8	0.0	33.6

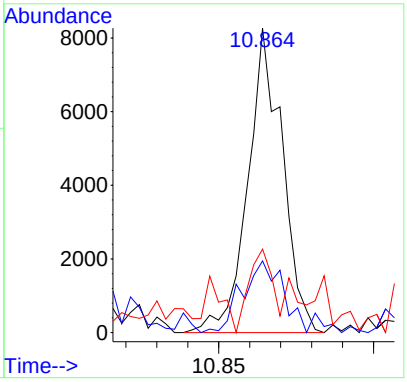




#88
Benz[a]pyrene
Concen: 0.06 ug/mL
RT: 10.864 min Scan# 3090
Delta R.T. 0.020 min
Lab File: 2MBS02.D
Acq: 8 Dec 10 8:18 pm

Tgt Ion:252 Resp: 6414

Ion	Ratio	Lower	Upper
252	100		
253	21.6	0.0	50.4
125	19.6	0.0	43.2



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120810\2LCSS02.D Vial: 20
Acq On : 8 Dec 2010 20:38 Operator: RPN
Sample : 72359,LCSS,1 Inst : SVMS2
Misc : 877492,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 09 13:42:50 2010

RPN 12/09/10

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 09 13:42:46 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.385	152	715573	20.00	ug/mL	0.00
21) Naphthalened8	6.039	136	3302573	20.00	ug/mL	0.00
39) Acenaphthened10	7.554	164	1654642	20.00	ug/mL	0.00
63) Phenanthrd10	8.449	188	2430985	20.00	ug/mL	0.00
75) Chrysene-d12	9.912	240	2148045	20.00	ug/mL	-0.01
85) Perylene-d12	10.870	264	1901358	20.00	ug/mL	-0.01
System Monitoring Compounds						
4) SURR2Flphenol	3.135	112	1186323	66.60	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery = 66.60%			
7) SURRPhenol-d5	3.956	99	1563742	73.08	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 73.08%			
22) SURRNitrbenzened5	5.082	82	567325	71.19	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 71.19%			
44) SURR2Flbiphenyl	7.065	172	1538410	71.06	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 71.06%			
62) SURR246Tribrphenl	8.071	330	360600	72.08	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 72.08%			
78) SURRTerphenyl-d14	9.253	244	1189660	76.25	ug/mL	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 76.25%			
Target Compounds						Qvalue
2) Ntrsdimeth	2.348	74	283170	11.1446	ug/mL#	74
3) Pyridine	2.425	79	15739	0.3487	ug/mL#	57
5) Aniline	4.016	93	514009	7.4518	ug/mL	90
6) bis2Clethletr	4.084	93	554102	12.9418	ug/mL	100
8) Phenol	3.971	94	717421	13.6022	ug/mL	83
9) 2-Cl-phenol	4.144	128	623142	12.9716	ug/mL	99
10) 13Diclbenz	4.317	146	638377	11.5044	ug/mL	97
11) 14Diclbenz	4.405	146	651294	11.5516	ug/mL	95
12) 12Diclbenz	4.581	146	637008	11.9079	ug/mL	93
13) Benzyl alcoho	4.550	108	292986	12.5147	ug/mL#	74
14) bis2clispreth	4.726	45	1029307	12.6222	ug/mL	96
15) 2Methylphenol	4.684	108	540647	13.4053	ug/mL	95
16) Ntrspyrrol	4.863	100	289913	13.6004	ug/mL	81
17) Acetophenone	4.885	105	792626	13.1708	ug/mL	83
18) Hexaclethane	5.008	117	218722	11.6294	ug/mL	96
19) N-Ntrsdinprop	4.891	70	356400	13.2314	ug/mL	95
20) 3&4Methylphenol	4.885	108	562077	13.9741	ug/mL	96
23) Nitrobenzene	5.107	77	530338	13.0259	ug/mL	86
24) Isophorone	5.465	82	1142411	12.7123	ug/mL	94
25) 2-Nitrophenol	5.567	139	383186	12.5873	ug/mL	78
26) 24Dimthpheno	5.647	107	546698	11.8510	ug/mL	84
27) bis2clethoxym	5.781	93	833525	13.4530	ug/mL	90
28) 24Diclphenol	5.877	162	577162	13.3990	ug/mL	96
29) 124Triclbenz	5.977	180	655430	12.2896	ug/mL	98
30) Benzoic acid	5.712	105	20197	3.4831	ug/mL	72
31) Naphthalene	6.062	128	2193393	13.0134	ug/mL	99
32) 4-Cl-aniline	6.139	127	398405	6.3014	ug/mL	91
33) 26Diclphenol	6.139	162	518624	13.2970	ug/mL	93
34) Hexaclprop	6.161	213	310030	11.3039	ug/mL	99
35) Hexaclbutdien	6.207	225	286252	11.4157	ug/mL	98
36) 4Cl3methylphe	6.644	107	555249	13.4769	ug/mL	88
37) 2Methylnaphth	6.755	141	1201412	12.7695	ug/mL	98
38) 1Methylnaphth	6.838	141	1261696	12.9205	ug/mL	97
40) Hxclcycpentdi	6.886	237	292791	10.8585	ug/mL	99

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120810\2LCSS02.D Vial: 20
Acq On : 8 Dec 2010 20:38 Operator: RPN
Sample : 72359,LCSS,1 Inst : SVMS2
Misc : 877492,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 09 13:42:50 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 09 13:42:46 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

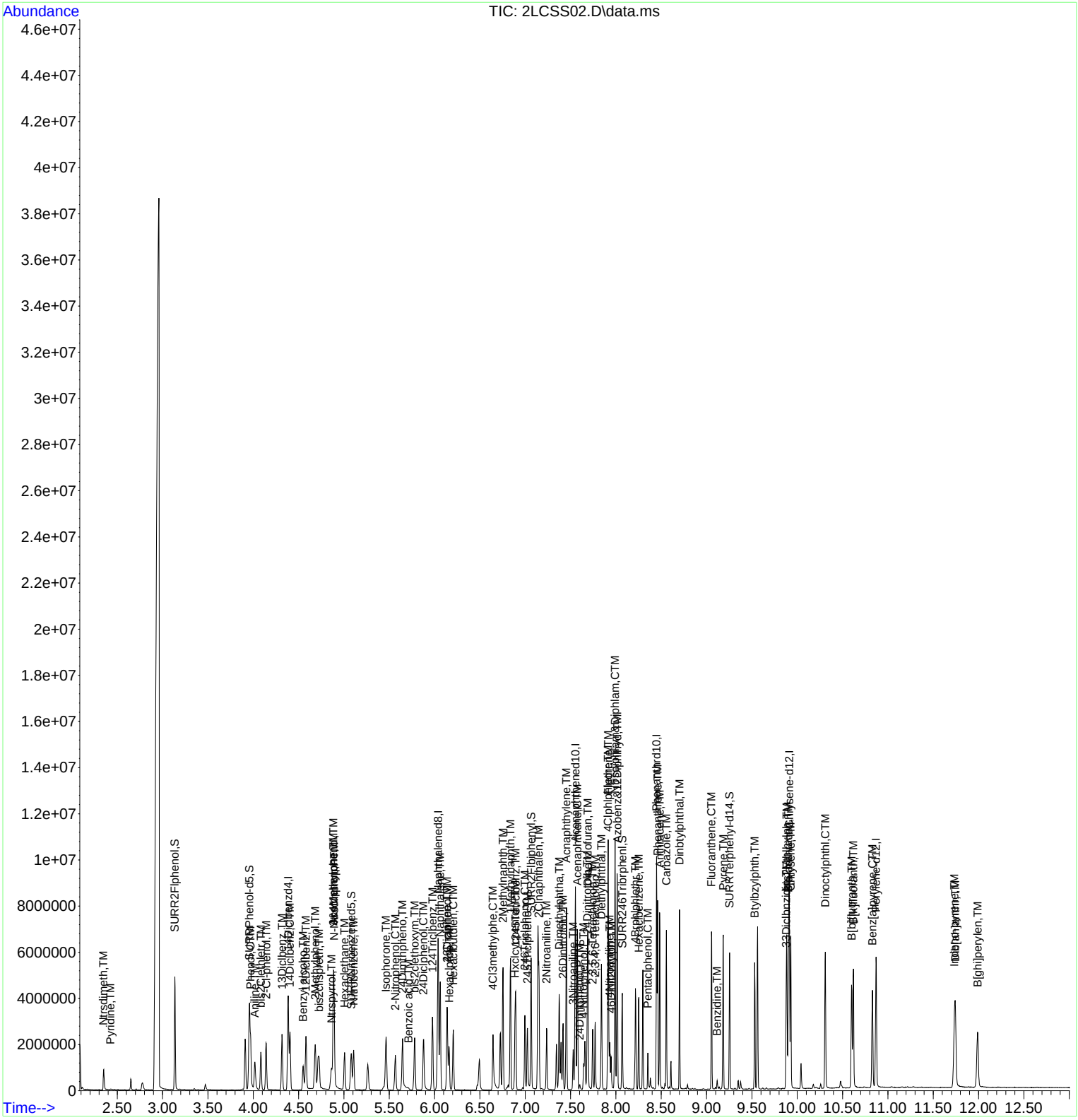
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	6.894	216	582729	13.2223 ug/mL	96
42) 246Triclpheno	6.997	196	386651	13.3191 ug/mL	93
43) 245Triclpheno	7.025	196	418694	13.5793 ug/mL	98
45) 2Clnaphthalen	7.150	162	1295322	13.5517 ug/mL	97
46) 2Nitroaniline	7.235	65	330577	14.8116 ug/mL#	70
47) Acnaphthylene	7.454	152	2246154	13.7163 ug/mL	98
48) Dimethylphtha	7.375	163	1519498	13.5276 ug/mL	100
49) 26Dinitrotolu	7.417	165	341521	14.0564 ug/mL	83
50) Acenaphthene	7.576	153	1400076	13.5988 ug/mL	99
51) 3Nitroaniline	7.528	138	258823	9.9532 ug/mL	87
52) 24Dinitphenol	7.602	184	37411	4.6682 ug/mL#	72
53) Dibenzofuran	7.690	168	1827469	13.6418 ug/mL	93
54) 24Dinitrotolu	7.684	165	446003	14.8289 ug/mL	82
55) 4-Nitrophenol	7.645	109	108669	13.0405 ug/mL#	76
56) 2,3,5,6-Tetrachlorop	7.744	232	262690	11.3987 ug/mL	96
57) 2,3,4,6-Tetrachlorop	7.772	232	296486	12.1811 ug/mL	96
58) Fluorene	7.914	166	1464441	13.5574 ug/mL	99
59) 4Clphlphlethr	7.912	204	648735	13.5017 ug/mL	97
60) Diethylphthal	7.841	149	1595806	14.0752 ug/mL	97
61) 4Nitroaniline	7.932	138	384574	15.0693 ug/mL#	71
64) 46Dinit2mylph	7.949	198	171597	9.7411 ug/mL	88
65) Ntrsdiphlam&Diphlam	7.991	169	2082919	28.8467 ug/mL	98
66) Azobenz&12Diphlhyd	8.017	182	765546	28.0641 ug/mL#	69
67) 4Brphlphlethr	8.216	248	379863	14.3997 ug/mL	93
68) Hexaclbenzene	8.253	284	366873	13.4078 ug/mL	97
69) Pentaclphenol	8.352	266	107966	9.4887 ug/mL	97
70) Phenanthrene	8.460	178	1809429	14.0373 ug/mL	100
71) Anthracene	8.483	178	1854130	14.1878 ug/mL	99
72) Carbazole	8.557	167	1657281	14.9695 ug/mL	99
73) Dinbtylphthal	8.702	149	2285914	15.2925 ug/mL	98
74) Fluoranthene	9.054	202	1848481	14.2107 ug/mL	99
76) Benzidine	9.116	184	100802	2.9432 ug/mL	97
77) Pyrene	9.185	202	1910934	14.9180 ug/mL	95
79) Btylbzylphth	9.531	149	927323	14.8887 ug/mL	88
80) 33Diclbnzidin	9.878	252	337390	13.8227 ug/mL	100
81) B[a]anthracen	9.903	228	1694722	14.1863 ug/mL	98
82) Chrysene	9.929	228	1609751	14.0640 ug/mL	98
83) bis2Ethlhxlph	9.884	149	1346625	14.8763 ug/mL	98
84) Dinoctylphthl	10.310	149	2327169	14.4688 ug/mL	100
86) B[b]fluoranth	10.600	252	1470577	13.1305 ug/mL	99
87) B[k]fluoranth	10.620	252	1550123	14.6528 ug/mL	99
88) Benz[a]pyrene	10.830	252	1398237	13.6784 ug/mL	98
89) Indeno-pyrene	11.733	276	1439648	13.8701 ug/mL	96
90) Dib[ah]anthr	11.745	278	1158008	13.7504 ug/mL	99
91) B[ghi]perylen	11.989	276	1170528	13.5768 ug/mL	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120810\2LCSS02.D Vial: 20
Acq On : 8 Dec 2010 20:38 Operator: RPN
Sample : 72359,LCSS,1 Inst : SVMS2
Misc : 877492,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 09 13:42:50 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 09 13:42:46 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120910\2LCSS02R.D Vial: 19
Acq On : 9 Dec 2010 19:23 Operator: RPN
Sample : 72359,LCSS,1 Inst : SVMS2
Misc : 877492,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 15 16:47:11 2010

RPN 10/15/10

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Wed Dec 15 16:47:07 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.374	152	847052	20.00	ug/mL	-0.01
21) Naphthalened8	6.025	136	3947408	20.00	ug/mL	-0.01
39) Acenaphthened10	7.540	164	1969517	20.00	ug/mL	0.00
63) Phenanthrd10	8.440	188	2929499	20.00	ug/mL	0.00
75) Chrysene-d12	9.912	240	2634915	20.00	ug/mL	-0.01
85) Perylene-d12	10.873	264	2445784	20.00	ug/mL	-0.01
System Monitoring Compounds						
4) SURR2Flphenol	3.127	112	1479157	70.15	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery = 70.15%			
7) SURRPhenol-d5	3.948	99	1889090	74.58	%REC	-0.01
Spiked Amount 100.000	Range 10 - 115		Recovery = 74.58%			
22) SURRNitrbenzened5	5.068	82	679144	71.30	%REC	-0.02
Spiked Amount 100.000	Range 40 - 110		Recovery = 71.30%			
44) SURR2Flbiphenyl	7.051	172	1835680	71.24	%REC	-0.01
Spiked Amount 100.000	Range 50 - 110		Recovery = 71.24%			
62) SURR246Tribrphenl	8.057	330	448602	75.33	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 75.33%			
78) SURRTerphenyl-d14	9.253	244	1468343	76.72	ug/mL	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 76.72%			
Target Compounds						Qvalue
2) Ntrsdimeth	2.340	74	341814	11.3645	ug/mL	78
3) Pyridine	2.405	79	18262	0.3418	ug/mL	99
5) Aniline	4.008	93	584549	7.1591	ug/mL	91
6) bis2Clethletr	4.073	93	668187	13.1840	ug/mL	98
8) Phenol	3.962	94	884392	14.1653	ug/mL	81
9) 2-Cl-phenol	4.130	128	752488	13.2327	ug/mL	98
10) 13Diclbenz	4.306	146	762489	11.6082	ug/mL	94
11) 14Diclbenz	4.394	146	779731	11.6830	ug/mL	98
12) 12Diclbenz	4.570	146	769149	12.1464	ug/mL	97
13) Benzyl alcoho	4.542	108	363976	13.0650	ug/mL#	67
14) bis2clispreth	4.707	45	1236077	12.8050	ug/mL	98
15) 2Methylphenol	4.673	108	652483	13.6671	ug/mL	97
16) Ntrspyrrol	4.852	100	348813	13.8236	ug/mL	81
17) Acetophenone	4.874	105	937974	13.1667	ug/mL	84
18) Hexaclethane	4.994	117	253942	11.4062	ug/mL	99
19) N-Ntrsdinprop	4.880	70	431285	13.5262	ug/mL	96
20) 3&4Methylphenol	4.877	108	696269	14.6235	ug/mL	96
23) Nitrobenzene	5.093	77	626727	12.8788	ug/mL	85
24) Isophorone	5.451	82	1351457	12.5818	ug/mL	95
25) 2-Nitrophenol	5.553	139	465426	12.7913	ug/mL	77
26) 24Dimthpheno	5.636	107	618627	11.2196	ug/mL	86
27) bis2clethoxym	5.767	93	999876	13.5016	ug/mL	89
28) 24Diclphenol	5.866	162	701886	13.6327	ug/mL	96
29) 124Triclbenz	5.963	180	778621	12.2145	ug/mL	96
30) Benzoic acid	5.707	105	21794	3.4286	ug/mL	89
31) Naphthalene	6.048	128	2609760	12.9544	ug/mL	100
32) 4-Cl-aniline	6.125	127	457910	6.0594	ug/mL	92
33) 26Diclphenol	6.127	162	612881	13.1467	ug/mL	97
34) Hexaclprop	6.147	213	365919	11.1622	ug/mL	98
35) Hexaclbutdien	6.193	225	351863	11.7400	ug/mL	94
36) 4Cl3methylphe	6.633	107	656524	13.3319	ug/mL	85
37) 2Methylnaphth	6.738	141	1442385	12.8263	ug/mL	99
38) 1Methylnaphth	6.824	141	1525563	13.0706	ug/mL	97
40) Hxclcycpentdi	6.872	237	339655	10.5945	ug/mL	97

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120910\2LCSS02R.D Vial: 19
Acq On : 9 Dec 2010 19:23 Operator: RPN
Sample : 72359,LCSS,1 Inst : SVMS2
Misc : 877492,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 15 16:47:11 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Wed Dec 15 16:47:07 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

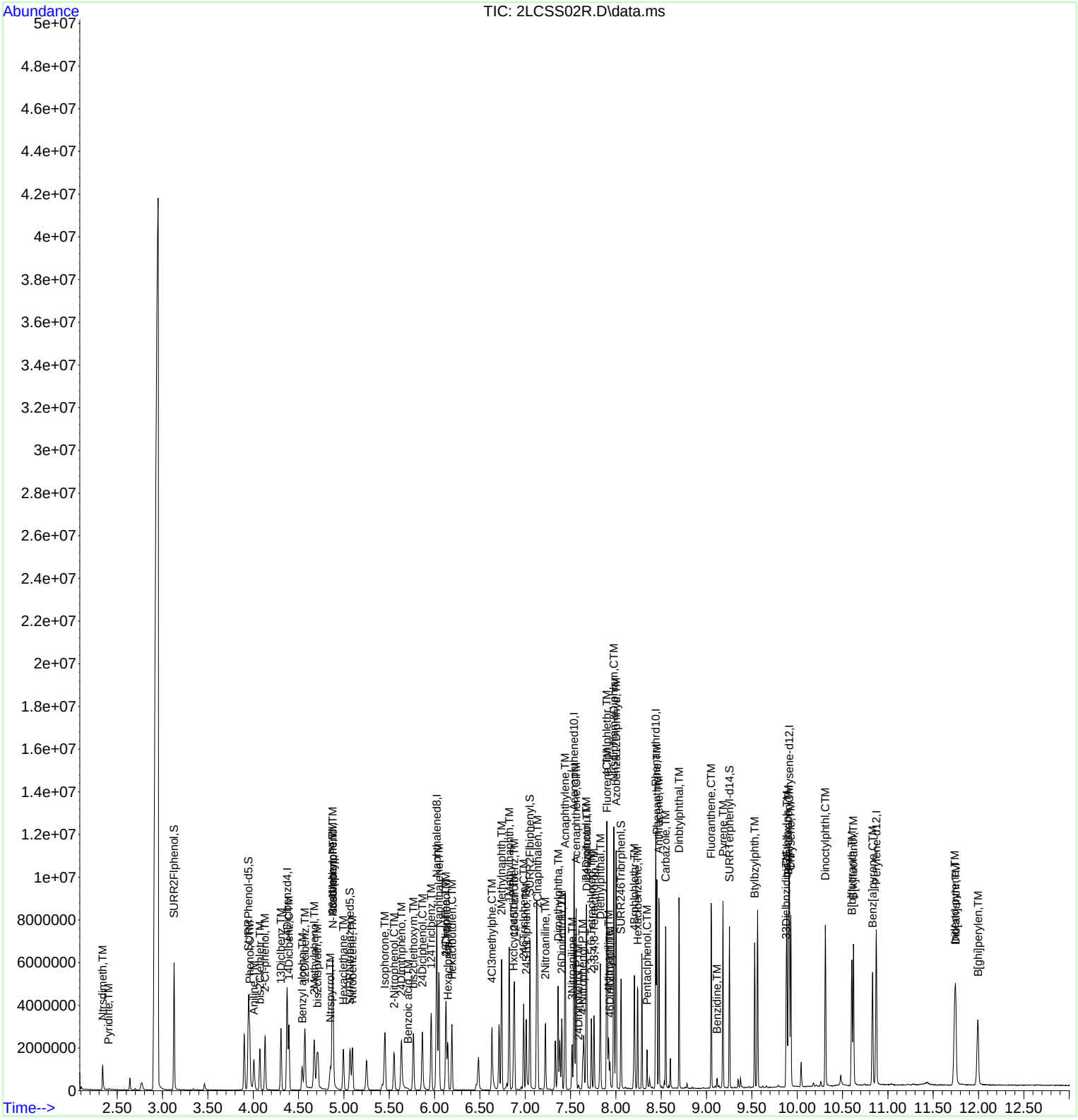
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	6.880	216	701121	13.3652 ug/mL	98
42) 246Triclpheno	6.983	196	476883	13.8011 ug/mL	89
43) 245Triclpheno	7.011	196	506096	13.7898 ug/mL	97
45) 2Clnaphthalen	7.136	162	1527204	13.4232 ug/mL	97
46) 2Nitroaniline	7.221	65	391254	14.7276 ug/mL#	68
47) Acnaphthylene	7.440	152	2707972	13.8927 ug/mL	97
48) Dimethylphtha	7.363	163	1842181	13.7784 ug/mL	98
49) 26Dinitrotolu	7.403	165	404463	13.9855 ug/mL	82
50) Acenaphthene	7.562	153	1695978	13.8393 ug/mL	100
51) 3Nitroaniline	7.517	138	325025	10.5008 ug/mL	89
52) 24Dinitphenol	7.588	184	35863	4.2221 ug/mL	79
53) Dibenzofuran	7.679	168	2207062	13.8414 ug/mL	91
54) 24Dinitrotolu	7.673	165	522974	14.6081 ug/mL	84
55) 4-Nitrophenol	7.633	109	126069	12.7099 ug/mL#	61
56) 2,3,5,6-Tetrachlorop	7.730	232	317022	11.5506 ug/mL	97
57) 2,3,4,6-Tetrachlorop	7.758	232	347871	12.0126 ug/mL	95
58) Fluorene	7.903	166	1773263	13.7919 ug/mL	98
59) 4Clphlphlethr	7.900	204	782880	13.6887 ug/mL	95
60) Diethylphthal	7.829	149	1881912	13.9450 ug/mL	99
61) 4Nitroaniline	7.920	138	458802	15.1037 ug/mL#	70
64) 46Dinit2mylph	7.935	198	154400	7.2734 ug/mL#	54
65) Ntrsdiphlam&Diphlam	7.977	169	2476872	28.4653 ug/mL	98
66) Azobenz&12Diphlhyd	8.003	182	918181	27.9316 ug/mL#	75
67) 4Brphlphlethr	8.204	248	457928	14.4050 ug/mL	89
68) Hexaclbenzene	8.241	284	445807	13.5200 ug/mL	96
69) Pentaclphenol	8.344	266	137604	9.8923 ug/mL	97
70) Phenanthrene	8.452	178	2187438	14.0821 ug/mL	100
71) Anthracene	8.474	178	2231673	14.1708 ug/mL	99
72) Carbazole	8.548	167	1983517	14.8674 ug/mL	98
73) Dinbtylphthal	8.696	149	2766973	15.3608 ug/mL	99
74) Fluoranthene	9.051	202	2243405	14.3119 ug/mL	100
76) Benzidine	9.117	184	121397	2.8770 ug/mL	97
77) Pyrene	9.182	202	2323772	14.7889 ug/mL	96
79) Btylbzylphth	9.531	149	1140642	14.9297 ug/mL	88
80) 33Diclbnzidin	9.878	252	470051	15.6590 ug/mL	99
81) B[a]anthracen	9.904	228	2065360	14.0943 ug/mL	98
82) Chrysene	9.929	228	1991881	14.1870 ug/mL	99
83) bis2Ethlhxlph	9.887	149	1673254	15.0690 ug/mL	98
84) Dinoctylphthl	10.310	149	2930881	14.8552 ug/mL	99
86) B[b]fluoranth	10.603	252	1931873	13.4097 ug/mL	100
87) B[k]fluoranth	10.620	252	1916288	14.0819 ug/mL	98
88) Benz[a]pyrene	10.833	252	1800183	13.6905 ug/mL	99
89) Indeno-pyrene	11.739	276	1844648	13.8160 ug/mL	98
90) Dib[ah]anthr	11.748	278	1529431	14.1182 ug/mL	96
91) B[ghi]perylen	11.995	276	1513870	13.6506 ug/mL	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120910\2LCSS02R.D Vial: 19
Acq On : 9 Dec 2010 19:23 Operator: RPN
Sample : 72359,LCSS,1 Inst : SVMS2
Misc : 877492,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 15 16:47:11 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Wed Dec 15 16:47:07 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120810\870189MS.D Vial: 28
Acq On : 8 Dec 2010 23:40 Operator: RPN
Sample : 72359,MSS870189,1 Inst : SVMS2
Misc : 877489,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 14 14:32:24 2010

RPN 12/14/10

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Tue Dec 14 14:32:19 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.391	152	777019	20.00	ug/mL	0.00
21) Naphthalened8	6.037	136	3366733	20.00	ug/mL	0.00
39) Acenaphthened10	7.548	164	1816410	20.00	ug/mL	0.00
63) Phenanthrd10	8.446	188	2722431	20.00	ug/mL	0.00
75) Chrysene-d12	9.915	240	2327174	20.00	ug/mL	-0.01
85) Perylene-d12	10.876	264	1831182	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	3.178	112	1259075	65.09	%REC	0.05
Spiked Amount 100.000	Range 20 - 110		Recovery = 65.09%			
7) SURRPhenol-d5	3.971	99	1578694	67.94	%REC	0.01
Spiked Amount 100.000	Range 10 - 115		Recovery = 67.94%			
22) SURRNitrbenzened5	5.085	82	545786	67.18	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 67.18%			
44) SURR2Flbiphenyl	7.062	172	1670621	70.30	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 70.30%			
62) SURR246Tribrphenl	8.065	330	400123	72.85	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 72.85%			
78) SURRTerphenyl-d14	9.256	244	1351694	79.96	ug/mL	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 79.96%			
Target Compounds						Qvalue
2) Ntrsdimeth	2.354	74	336517	12.1968	ug/mL#	73
3) Pyridine	2.371	79	739	N.D.		
5) Aniline	4.028	93	319	N.D.		
6) bis2Clethletr	4.096	93	605762	13.0296	ug/mL	99
8) Phenol	3.985	94	807309	14.0961	ug/mL	82
9) 2-Cl-phenol	4.156	128	702414	13.4655	ug/mL	96
10) 13Diclbenz	4.326	146	772914	12.8275	ug/mL	98
11) 14Diclbenz	4.411	146	782564	12.7822	ug/mL	96
12) 12Diclbenz	4.587	146	745941	12.8416	ug/mL	97
13) Benzyl alcoho	4.559	108	291477	11.5774	ug/mL#	70
14) bis2clispreth	4.724	45	1119788	12.6458	ug/mL	94
15) 2Methylphenol	4.690	108	537957	12.2838	ug/mL	99
16) Ntrspyrrol	4.869	100	310446	13.4120	ug/mL	80
17) Acetophenone	4.889	105	848147	12.9788	ug/mL	82
18) Hexaclethane	5.011	117	238981	11.7017	ug/mL	95
19) N-Ntrsdinprop	4.894	70	369710	12.6401	ug/mL	97
20) 3&4Methylphenol	4.894	108	594694	13.6159	ug/mL	95
23) Nitrobenzene	5.110	77	575019	13.8542	ug/mL	83
24) Isophorone	5.468	82	1234976	13.4804	ug/mL	94
25) 2-Nitrophenol	5.568	139	385824	12.4325	ug/mL	78
26) 24Dimthpheno	5.650	107	301190	6.4046	ug/mL	83
27) bis2clethoxym	5.781	93	903960	14.3117	ug/mL	89
28) 24Diclphenol	5.880	162	653782	14.8886	ug/mL	96
29) 124Triclbenz	5.974	180	733092	13.4838	ug/mL	97
30) Benzoic acid	5.724	105	42042	4.0670	ug/mL	86
31) Naphthalene	6.062	128	2425700	14.1174	ug/mL	100
32) 4-Cl-aniline	6.142	127	48191	0.7477	ug/mL	94
33) 26Diclphenol	6.139	162	550316	13.8406	ug/mL	96
34) Hexaclprop	6.156	213	228388	8.1685	ug/mL	96
35) Hexaclbutdien	6.204	225	333460	13.0450	ug/mL	96
36) 4Cl3methylphe	6.642	107	628489	14.9639	ug/mL	85
37) 2Methylnaphth	6.750	141	1378588	14.3734	ug/mL	99
38) 1Methylnaphth	6.832	141	1456758	14.6338	ug/mL	97
40) Hxclcycpentdi	6.880	237	109409	3.9941	ug/mL	96

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120810\870189MS.D Vial: 28
Acq On : 8 Dec 2010 23:40 Operator: RPN
Sample : 72359,MSS870189,1 Inst : SVMS2
Misc : 877489,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 14 14:32:24 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Tue Dec 14 14:32:19 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

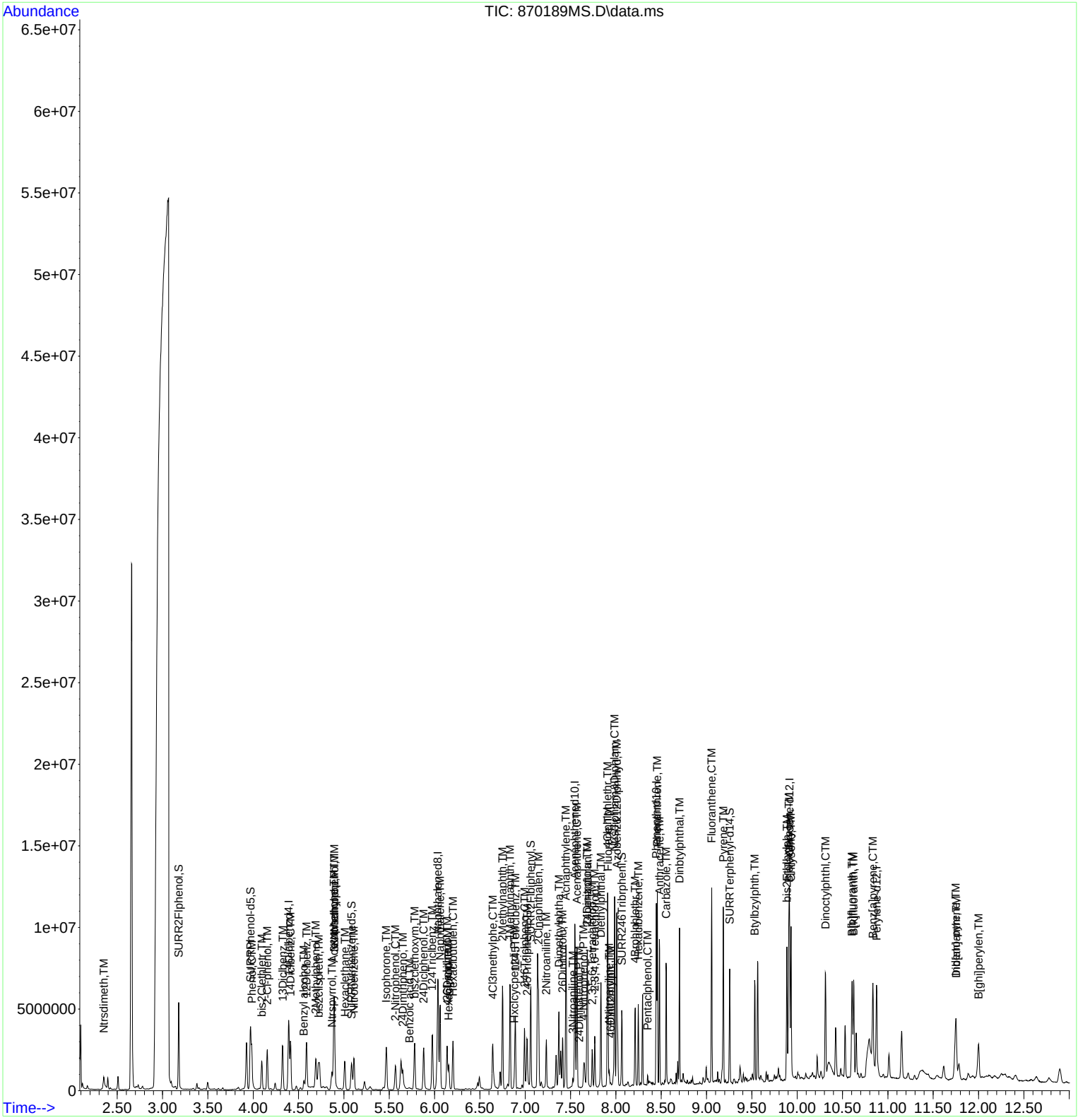
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	6.892	216	687138	14.2028 ug/mL	96
42) 246Triclpheno	6.994	196	445757	13.9877 ug/mL	88
43) 245Triclpheno	7.023	196	481275	14.2188 ug/mL	99
45) 2Clnaphthalen	7.148	162	1477973	14.0855 ug/mL	98
46) 2Nitroaniline	7.233	65	369898	15.0974 ug/mL#	72
47) Acnaphthylene	7.449	152	2635539	14.6608 ug/mL	98
48) Dimethylphtha	7.372	163	1764261	14.3079 ug/mL	99
49) 26Dinitrotolu	7.412	165	392197	14.7045 ug/mL	82
50) Acenaphthene	7.571	153	1643899	14.5451 ug/mL	100
51) 3Nitroaniline	7.525	138	117883	4.1295 ug/mL	93
52) 24Dinitphenol	7.596	184	5945	2.7079 ug/mL	80
53) Dibenzofuran	7.687	168	2184119	14.8521 ug/mL	92
54) 24Dinitrotolu	7.682	165	503763	15.2576 ug/mL	84
55) 4-Nitrophenol	7.645	109	119093	13.0186 ug/mL	78
56) 2,3,5,6-Tetrachlorop	7.739	232	242461	9.6578 ug/mL	96
57) 2,3,4,6-Tetrachlorop	7.767	232	332958	12.4528 ug/mL	98
58) Fluorene	7.912	166	1749130	14.7509 ug/mL	99
59) 4Clphlphlethr	7.909	204	759606	14.4013 ug/mL	95
60) Diethylphthal	7.835	149	1847902	14.8472 ug/mL	99
61) 4Nitroaniline	7.926	138	203391	7.2600 ug/mL#	67
64) 46Dinit2mylph	7.943	198	19345	0.9806 ug/mL#	56
65) Ntrsdiphlam&Diphlam	7.986	169	2264431	28.0032 ug/mL	99
66) Azobenz&12Diphlhyd	8.011	182	898774	29.4208 ug/mL#	70
67) 4Brphlphlethr	8.213	248	444595	15.0494 ug/mL	88
68) Hexaclbenzene	8.247	284	442379	14.4365 ug/mL	99
69) Pentaclphenol	8.349	266	45066	5.0685 ug/mL	90
70) Phenanthrene	8.457	178	2567363	17.7851 ug/mL	100
71) Anthracene	8.480	178	2245220	15.3412 ug/mL	98
72) Carbazole	8.554	167	1946730	15.7015 ug/mL	98
73) Dinbtylphthal	8.702	149	2694873	16.0984 ug/mL	99
74) Fluoranthene	9.057	202	3208228	22.0237 ug/mL	98
76) Benzidine	9.102	184	2395	Below Cal #	1
77) Pyrene	9.185	202	2992161	21.5608 ug/mL	95
79) Btylbzylphth	9.531	149	1060425	15.7152 ug/mL	90
80) 33Diclbnzidin	9.932	252	2487	Below Cal	94
81) B[a]anthracen	9.907	228	2427569	18.7567 ug/mL	99
82) Chrysene	9.932	228	2259809	18.2238 ug/mL	99
83) bis2Ethlhxlph	9.887	149	1713020	17.4672 ug/mL	99
84) Dinoctylphthl	10.313	149	2604149	14.9446 ug/mL	100
86) B[b]fluoranth	10.606	252	2081333	19.2961 ug/mL	98
87) B[k]fluoranth	10.623	252	1823874	17.9012 ug/mL	98
88) Benz[a]pyrene	10.836	252	1677878	17.0431 ug/mL	99
89) Indeno-pyrene	11.748	276	1315289	13.1576 ug/mL	100
90) Dib[ah]anthr	11.754	278	997980	12.3044 ug/mL	98
91) B[ghi]perylen	12.001	276	1014902	12.2229 ug/mL	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120810\870189MS.D Vial: 28
Acq On : 8 Dec 2010 23:40 Operator: RPN
Sample : 72359,MSS870189,1 Inst : SVMS2
Misc : 877489,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 14 14:32:24 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Tue Dec 14 14:32:19 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M



Quantitation Report (Not Reviewed)

Data File : C:\INSTARCH\DATA\2S120910\870189SR.D Vial: 21
Acq On : 9 Dec 2010 20:25 Operator: RPN
Sample : 72359,MSS870189,1 Inst : SVMS2
Misc : 877489,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 15 16:49:53 2010

RPN 10/15/10

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Wed Dec 15 16:47:07 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.380	152	813970	20.00	ug/mL	0.00
21) Naphthalened8	6.028	136	3602288	20.00	ug/mL	-0.01
39) Acenaphthened10	7.542	164	1976100	20.00	ug/mL	0.00
63) Phenanthrd10	8.440	188	2902717	20.00	ug/mL	0.00
75) Chrysene-d12	9.912	240	2535003	20.00	ug/mL	-0.01
85) Perylene-d12	10.873	264	2277810	20.00	ug/mL	-0.01
System Monitoring Compounds						
4) SURR2Flphenol	3.167	112	1268525	62.60	%REC	0.04
Spiked Amount 100.000	Range 20 - 110		Recovery = 62.60%			
7) SURRPhenol-d5	3.959	99	1742278	71.58	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 71.58%			
22) SURRNitrbenzened5	5.073	82	569436	65.51	%REC	-0.01
Spiked Amount 100.000	Range 40 - 110		Recovery = 65.51%			
44) SURR2Flbiphenyl	7.054	172	1823720	70.54	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 70.54%			
62) SURR246Tribrphenl	8.060	330	414269	69.33	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 69.33%			
78) SURRTerphenyl-d14	9.250	244	1439818	78.19	ug/mL	-0.01
Spiked Amount 100.000	Range 50 - 135		Recovery = 78.19%			
Target Compounds						Qvalue
2) Ntrsdimeth	2.343	74	354172	12.2540	ug/mL#	77
6) bis2Clethletr	4.082	93	636415	13.0675	ug/mL	99
8) Phenol	3.974	94	901496	15.0261	ug/mL	82
9) 2-Cl-phenol	4.141	128	717310	13.1268	ug/mL	100
10) 13Diclbenz	4.312	146	807288	12.7898	ug/mL	99
11) 14Diclbenz	4.400	146	823097	12.8340	ug/mL	99
12) 12Diclbenz	4.576	146	783060	12.8686	ug/mL	97
13) Benzyl alcoho	4.548	108	325152	12.2429	ug/mL#	73
14) bis2clispreth	4.712	45	1170869	12.6224	ug/mL	93
15) 2Methylphenol	4.678	108	576784	12.5725	ug/mL	96
16) Ntrspyrrol	4.857	100	348807	14.3852	ug/mL	80
17) Acetophenone	4.877	105	909505	13.2860	ug/mL	83
18) Hexaclethane	4.997	117	265511	12.4106	ug/mL	96
19) N-Ntrsdinprop	4.886	70	425103	13.8742	ug/mL	92
20) 3&4Methylphenol	4.883	108	657935	14.3800	ug/mL	99
23) Nitrobenzene	5.099	77	607302	13.6752	ug/mL	85
24) Isophorone	5.457	82	1408009	14.3642	ug/mL	95
25) 2-Nitrophenol	5.556	139	419288	12.6273	ug/mL	78
26) 24Dimthpheno	5.639	107	232190	4.6145	ug/mL	82
27) bis2clethoxym	5.769	93	1004699	14.8665	ug/mL	90
28) 24Diclphenol	5.869	162	703038	14.9633	ug/mL	95
29) 124Triclbenz	5.965	180	765708	13.1628	ug/mL	97
30) Benzoic acid	5.713	105	49278	4.1762	ug/mL	87
31) Naphthalene	6.051	128	2592573	14.1020	ug/mL	100
32) 4-Cl-aniline	6.130	127	42868	0.6216	ug/mL	88
33) 26Diclphenol	6.127	162	613210	14.4140	ug/mL	95
34) Hexaclprop	6.147	213	303463	10.1439	ug/mL	97
35) Hexaclbutdien	6.196	225	347220	12.6951	ug/mL	96
36) 4Cl3methylphe	6.633	107	684057	15.2219	ug/mL	82
37) 2Methylnaphth	6.741	141	1517832	14.7904	ug/mL	97
38) 1Methylnaphth	6.826	141	1612046	15.1348	ug/mL	96
40) Hxclcycpentdi	6.875	237	160414	5.2276	ug/mL	99
41) 1245Tetrclbenz	6.883	216	739434	14.0486	ug/mL	96
42) 246Triclpheno	6.986	196	476309	13.7385	ug/mL	93

Quantitation Report (Not Reviewed)

Data File : C:\INSTARCH\DATA\2S120910\870189SR.D Vial: 21
Acq On : 9 Dec 2010 20:25 Operator: RPN
Sample : 72359,MSS870189,1 Inst : SVMS2
Misc : 877489,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 15 16:49:53 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Wed Dec 15 16:47:07 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

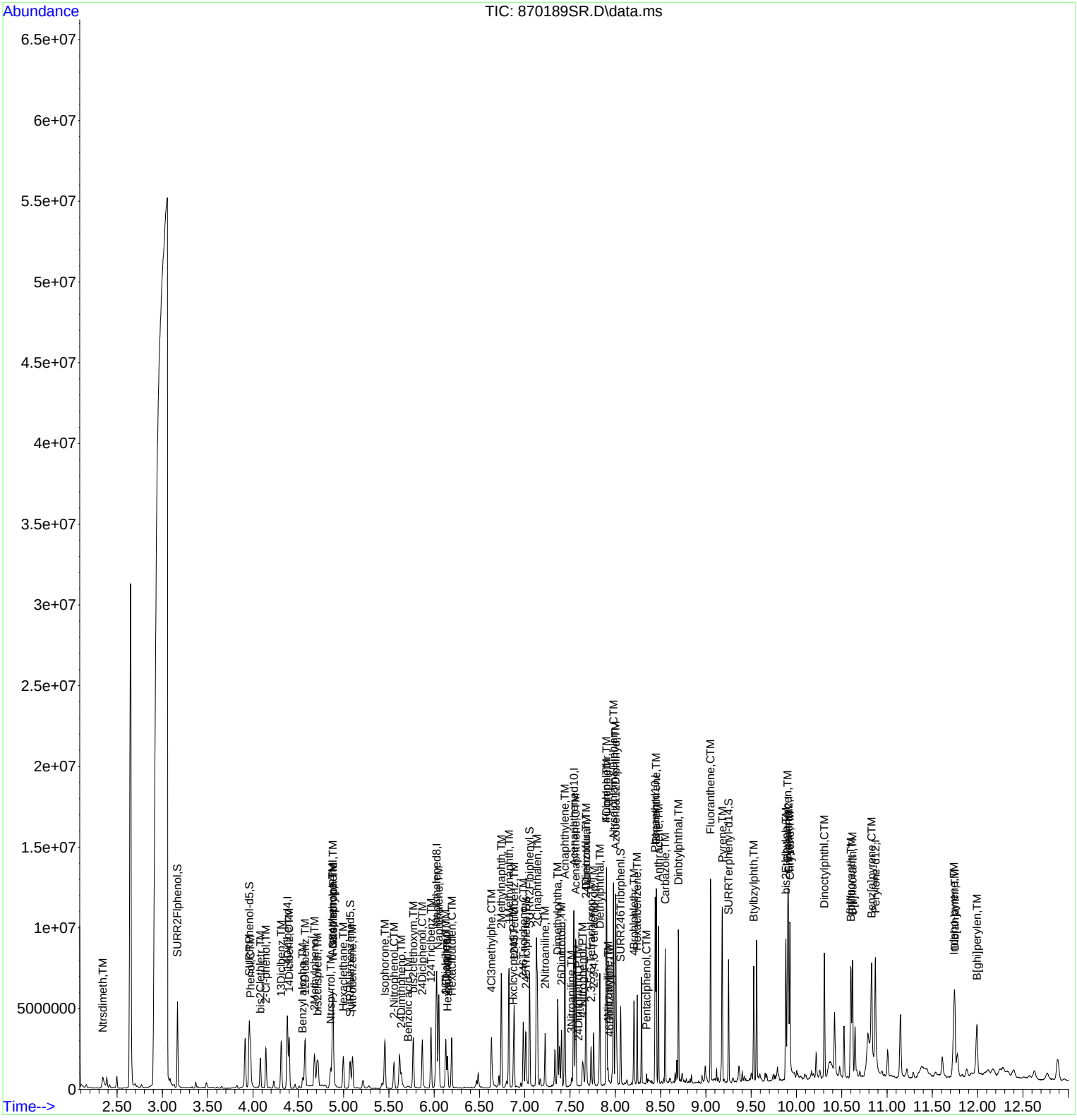
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) 245Triclpheno	7.014	196	513843	13.9542 ug/mL	100
45) 2Clnaphthalen	7.139	162	1613670	14.1360 ug/mL	97
46) 2Nitroaniline	7.224	65	396678	14.8820 ug/mL#	72
47) Acnaphthylene	7.443	152	2902635	14.8418 ug/mL	97
48) Dimethylphtha	7.363	163	1939459	14.4576 ug/mL	99
49) 26Dinitrotolu	7.406	165	424380	14.6254 ug/mL	82
50) Acenaphthene	7.562	153	1793903	14.5896 ug/mL	100
51) 3Nitroaniline	7.517	138	123976	3.9920 ug/mL	78
52) 24Dinitphenol	7.594	184	6938	2.7320 ug/mL	71
53) Dibenzofuran	7.679	168	2369034	14.8077 ug/mL	93
54) 24Dinitrotolu	7.676	165	549607	15.3009 ug/mL	84
55) 4-Nitrophenol	7.639	109	130864	13.1493 ug/mL#	66
56) 2,3,5,6-Tetrachlorop	7.733	232	254253	9.3260 ug/mL	95
57) 2,3,4,6-Tetrachlorop	7.761	232	333309	11.4882 ug/mL	98
58) Fluorene	7.903	166	1897218	14.7068 ug/mL	100
59) 4Clphlphlethr	7.903	204	816769	14.2337 ug/mL	95
60) Diethylphthal	7.829	149	1982659	14.6426 ug/mL	98
61) 4Nitroaniline	7.920	138	260762	8.5556 ug/mL#	72
64) 46Dinit2mylph	7.937	198	25713	1.2224 ug/mL#	55
65) Ntrsdiphlam&Diphlam	7.980	169	2435711	28.2505 ug/mL	98
66) Azobenz&12Diphlhyd	8.003	182	971560	29.8282 ug/mL#	79
67) 4Brphlphlethr	8.207	248	475060	15.0818 ug/mL	87
68) Hexaclbenzene	8.241	284	473343	14.4875 ug/mL	97
69) Pentaclphenol	8.344	266	47444	5.0352 ug/mL	97
70) Phenanthrene	8.452	178	2706796	17.5863 ug/mL	100
71) Anthracene	8.477	178	2381166	15.2596 ug/mL	98
72) Carbazole	8.551	167	2083778	15.7630 ug/mL	97
73) Dinbtylphthal	8.696	149	2932817	16.4317 ug/mL	99
74) Fluoranthene	9.051	202	3434878	22.1151 ug/mL	100
76) Benzidine	9.247	184	14545	Below Cal	89
77) Pyrene	9.182	202	3220665	21.3047 ug/mL	94
79) Btylbzylphth	9.529	149	1171719	15.9409 ug/mL	88
80) 33Diclbnzidin	9.929	252	3260	Below Cal #	1
81) B[a]anthracen	9.904	228	2625491	18.6229 ug/mL	99
82) Chrysene	9.929	228	2525512	18.6967 ug/mL	98
83) bis2Ethlhxlph	9.884	149	1933825	18.1021 ug/mL	99
84) Dinoctylphthl	10.307	149	3003335	15.8224 ug/mL	99
86) B[b]fluoranth	10.600	252	2649834	19.7497 ug/mL	99
87) B[k]fluoranth	10.620	252	2004328	15.8150 ug/mL	99
88) Benz[a]pyrene	10.830	252	2077438	16.9641 ug/mL	98
89) Indeno-pyrene	11.739	276	1970286	15.8452 ug/mL	100
90) Dib[ah]anthr	11.748	278	1520024	15.0661 ug/mL	97
91) B[ghi]perylen	11.992	276	1573309	15.2327 ug/mL	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\INSTARCH\DATA\2S120910\870189SR.D Vial: 21
Acq On : 9 Dec 2010 20:25 Operator: RPN
Sample : 72359,MSS870189,1 Inst : SVMS2
Misc : 877489,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 15 16:49:53 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Wed Dec 15 16:47:07 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120810\870189SD.D Vial: 29
Acq On : 9 Dec 2010 00:00 Operator: RPN
Sample : 72359,MSDS72359,1 Inst : SVMS2
Misc : 877490,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 14 14:33:58 2010

RPN 12/14/10

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Tue Dec 14 14:32:19 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.394	152	774530	20.00	ug/mL	0.00
21) Naphthalened8	6.042	136	3318897	20.00	ug/mL	0.00
39) Acenaphthened10	7.554	164	1826890	20.00	ug/mL	0.00
63) Phenanthrd10	8.449	188	2695842	20.00	ug/mL	0.00
75) Chrysene-d12	9.912	240	2280668	20.00	ug/mL	-0.01
85) Perylene-d12	10.870	264	1715214	20.00	ug/mL	-0.01
System Monitoring Compounds						
4) SURR2Flphenol	3.186	112	1299230	67.38	%REC	0.06
Spiked Amount 100.000	Range 20 - 110		Recovery = 67.38%			
7) SURRPhenol-d5	3.974	99	1777372	76.74	%REC	0.01
Spiked Amount 100.000	Range 10 - 115		Recovery = 76.74%			
22) SURRNitrbenzened5	5.087	82	602603	75.24	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 75.24%			
44) SURR2Flbiphenyl	7.068	172	1887003	78.95	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 78.95%			
62) SURR246Tribrphenl	8.074	330	436764	79.07	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 79.07%			
78) SURRTerphenyl-d14	9.253	244	1428412	86.23	ug/mL	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 86.23%			
Target Compounds						Qvalue
2) Ntrsdimeth	2.354	74	415805	15.1190	ug/mL	79
3) Pyridine	2.357	79	205	N.D.		
5) Aniline	4.064	93	11511	0.1542	ug/mL#	42
6) bis2Clethletr	4.096	93	683655	14.7523	ug/mL	99
8) Phenol	3.988	94	934601	16.3711	ug/mL	84
9) 2-Cl-phenol	4.158	128	770633	14.8207	ug/mL	98
10) 13Diclbenz	4.326	146	902920	15.0333	ug/mL	95
11) 14Diclbenz	4.414	146	913725	14.9725	ug/mL	100
12) 12Diclbenz	4.590	146	881193	15.2187	ug/mL	97
13) Benzyl alcoho	4.562	108	361725	14.0737	ug/mL#	72
14) bis2clispreth	4.732	45	1240267	14.0514	ug/mL	98
15) 2Methylphenol	4.695	108	616917	14.1320	ug/mL	97
16) Ntrspyrrol	4.871	100	359233	15.5696	ug/mL	82
17) Acetophenone	4.891	105	943653	14.4867	ug/mL	81
18) Hexaclethane	5.011	117	278629	13.6869	ug/mL	98
19) N-Ntrsdinprop	4.900	70	432820	14.8453	ug/mL	97
20) 3&4Methylphenol	4.897	108	670911	15.4103	ug/mL	98
23) Nitrobenzene	5.113	77	627929	15.3471	ug/mL	85
24) Isophorone	5.471	82	1457662	16.1405	ug/mL	94
25) 2-Nitrophenol	5.573	139	446740	14.6029	ug/mL	79
26) 24Dimthpheno	5.653	107	234762	5.0640	ug/mL	87
27) bis2clethoxym	5.783	93	1044658	16.7777	ug/mL	91
28) 24Diclphenol	5.883	162	754252	17.4241	ug/mL	96
29) 124Triclbenz	5.980	180	834672	15.5734	ug/mL	95
30) Benzoic acid	5.721	105	28002	3.6959	ug/mL	84
31) Naphthalene	6.065	128	2719343	16.0545	ug/mL	99
32) 4-Cl-aniline	6.144	127	39332	0.6190	ug/mL	97
33) 26Diclphenol	6.144	162	638275	16.2842	ug/mL	96
34) Hexaclprop	6.161	213	226420	8.2148	ug/mL	99
35) Hexaclbutdien	6.207	225	380042	15.0816	ug/mL	96
36) 4Cl3methylphe	6.644	107	722616	17.4529	ug/mL	86
37) 2Methylnaphth	6.755	141	1610817	17.0367	ug/mL	98
38) 1Methylnaphth	6.840	141	1690450	17.2261	ug/mL	100
40) Hxclcycpentdi	6.886	237	73613	2.8191	ug/mL	97

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120810\870189SD.D Vial: 29
Acq On : 9 Dec 2010 00:00 Operator: RPN
Sample : 72359,MSDS72359,1 Inst : SVMS2
Misc : 877490,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 14 14:33:58 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Tue Dec 14 14:32:19 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

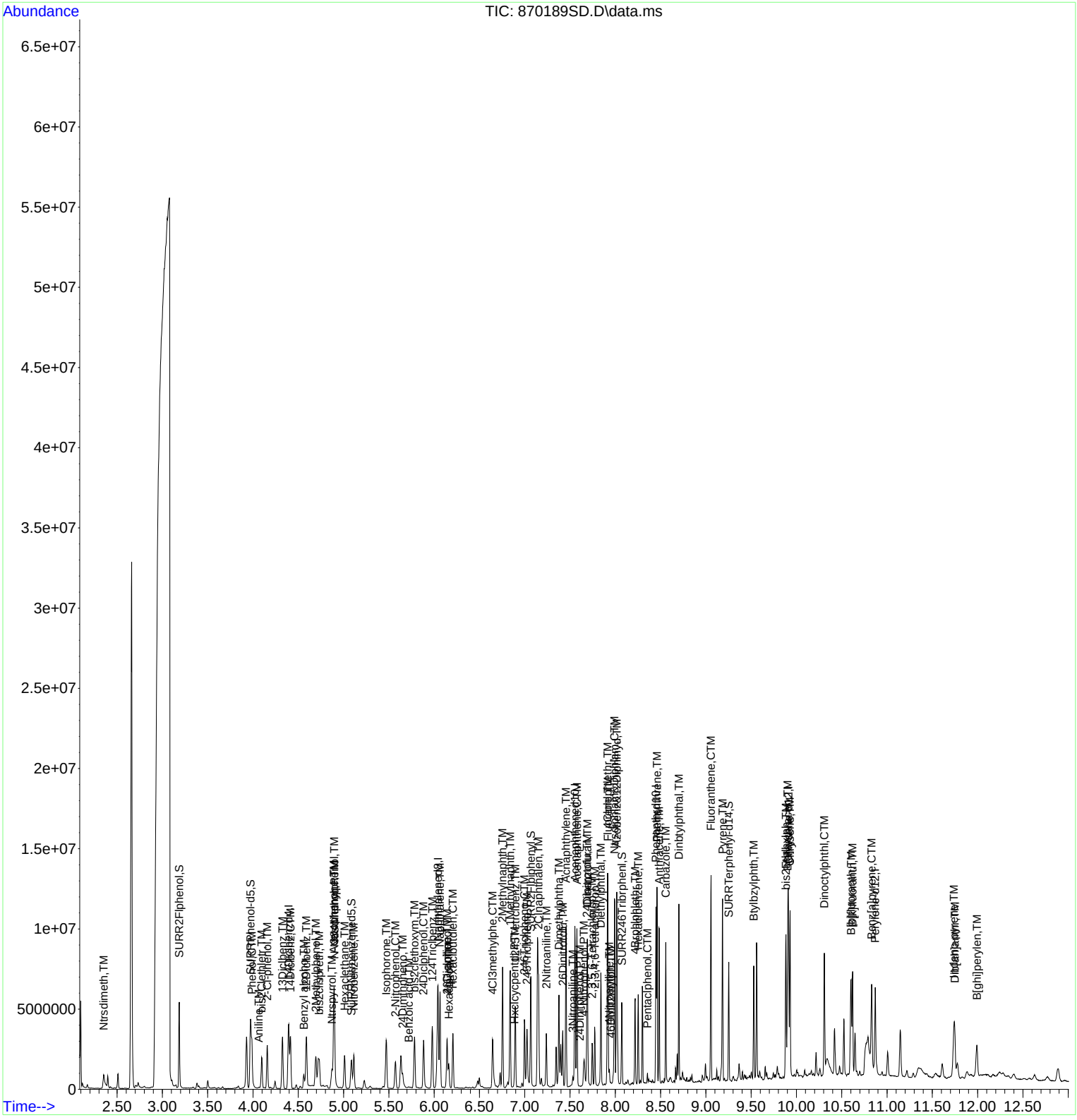
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	6.897	216	789558	16.2261 ug/mL	97
42) 246Triclpheno	6.997	196	516637	16.1188 ug/mL	91
43) 245Triclpheno	7.025	196	550884	16.1820 ug/mL	98
45) 2Clnaphthalen	7.153	162	1693650	16.0484 ug/mL	97
46) 2Nitroaniline	7.238	65	415410	16.8577 ug/mL#	72
47) Acnaphthylene	7.454	152	2965274	16.4004 ug/mL	98
48) Dimethylphtha	7.378	163	2013098	16.2322 ug/mL	99
49) 26Dinitrotolu	7.420	165	443086	16.5172 ug/mL	82
50) Acenaphthene	7.576	153	1868646	16.4388 ug/mL	99
51) 3Nitroaniline	7.531	138	121532	4.2329 ug/mL	87
52) 24Dinitphenol	7.608	184	1849	2.4787 ug/mL#	55
53) Dibenzofuran	7.693	168	2430509	16.4328 ug/mL	91
54) 24Dinitrotolu	7.687	165	556520	16.7588 ug/mL	84
55) 4-Nitrophenol	7.653	109	134299	14.5966 ug/mL	80
56) 2,3,5,6-Tetrachlorop	7.744	232	280133	11.0253 ug/mL	98
57) 2,3,4,6-Tetrachlorop	7.775	232	363919	13.5015 ug/mL	93
58) Fluorene	7.917	166	1966661	16.4902 ug/mL	100
59) 4Clphlphlethr	7.915	204	857465	16.1633 ug/mL	95
60) Diethylphthal	7.841	149	2044660	16.3338 ug/mL	98
61) 4Nitroaniline	7.934	138	248567	8.8216 ug/mL#	72
64) 46Dinit2mylph	7.952	198	10855	0.5557 ug/mL#	51
65) Ntrsdiphlam&Diphlam	7.991	169	2455451	30.6649 ug/mL	98
66) Azobenz&12Diphlhyd	8.017	182	1014553	33.5384 ug/mL#	69
67) 4Brphlphlethr	8.219	248	501977	17.1593 ug/mL	88
68) Hexaclbenzene	8.253	284	500788	16.5038 ug/mL	96
69) Pentaclphenol	8.355	266	45686	5.1313 ug/mL	90
70) Phenanthrene	8.460	178	2803955	19.6156 ug/mL	99
71) Anthracene	8.486	178	2485048	17.1474 ug/mL	98
72) Carbazole	8.557	167	2136520	17.4022 ug/mL	98
73) Dinbtylphthal	8.702	149	2999249	18.0934 ug/mL	98
74) Fluoranthene	9.057	202	3449896	23.9163 ug/mL	96
76) Benzidine	9.253	184	14894	Below Cal	70
77) Pyrene	9.185	202	3244745	23.8576 ug/mL	93
79) Btylbzylphth	9.528	149	1171509	17.7155 ug/mL	90
80) 33Diclbnzidin	9.932	252	3455	Below Cal #	40
81) B[a]anthracen	9.904	228	2615075	20.6175 ug/mL	98
82) Chrysene	9.929	228	2456846	20.2167 ug/mL	98
83) bis2Ethlhxlph	9.884	149	1902743	19.7974 ug/mL	100
84) Dinoctylphthl	10.307	149	2839638	16.6283 ug/mL	100
86) B[b]fluoranth	10.603	252	2294243	22.7080 ug/mL	98
87) B[k]fluoranth	10.620	252	1781315	18.6656 ug/mL	98
88) Benz[a]pyrene	10.830	252	1713555	18.5823 ug/mL	98
89) Indeno-pyrene	11.739	276	1296739	13.8491 ug/mL	98
90) Dib[ah]anthr	11.748	278	1013663	13.3427 ug/mL	99
91) B[ghi]perylen	11.992	276	972846	12.5085 ug/mL	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120810\870189SD.D Vial: 29
Acq On : 9 Dec 2010 00:00 Operator: RPN
Sample : 72359,MSDS72359,1 Inst : SVMS2
Misc : 877490,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 14 14:33:58 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Tue Dec 14 14:32:19 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120910\870189DR.D Vial: 22
Acq On : 9 Dec 2010 20:46 Operator: RPN
Sample : 72359,MSDS870189,1 Inst : SVMS2
Misc : 877490,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 15 16:51:18 2010

RPN 10/15/10

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Wed Dec 15 16:47:07 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.380	152	841601	20.00	ug/mL	0.00
21) Naphthalened8	6.031	136	3754058	20.00	ug/mL	0.00
39) Acenaphthened10	7.545	164	2001710	20.00	ug/mL	0.00
63) Phenanthrd10	8.443	188	2921544	20.00	ug/mL	0.00
75) Chrysene-d12	9.909	240	2461001	20.00	ug/mL	-0.02
85) Perylene-d12	10.867	264	2109629	20.00	ug/mL	-0.02
System Monitoring Compounds						
4) SURR2Flphenol	3.178	112	1482229	70.75	%REC	0.05
Spiked Amount 100.000	Range 20 - 110		Recovery = 70.75%			
7) SURRPhenol-d5	3.965	99	2023582	80.41	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 80.41%			
22) SURRNitrbenzened5	5.076	82	695315	76.75	%REC	-0.01
Spiked Amount 100.000	Range 40 - 110		Recovery = 76.75%			
44) SURR2Flbiphenyl	7.059	172	2098848	80.14	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 80.14%			
62) SURR246Tribrphenl	8.065	330	448586	74.12	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 74.12%			
78) SURRTerphenyl-d14	9.250	244	1566910	87.66	ug/mL	-0.01
Spiked Amount 100.000	Range 50 - 135		Recovery = 87.66%			
Target Compounds						Qvalue
2) Ntrsdimeth	2.345	74	452225	15.1328	ug/mL	77
6) bis2Clethletr	4.084	93	775656	15.4036	ug/mL	98
8) Phenol	3.976	94	1060366	17.0938	ug/mL	84
9) 2-Cl-phenol	4.147	128	860198	15.2248	ug/mL	100
10) 13Diclbenz	4.314	146	984358	15.0830	ug/mL	95
11) 14Diclbenz	4.400	146	1010483	15.2385	ug/mL	98
12) 12Diclbenz	4.579	146	970742	15.4292	ug/mL	95
13) Benzyl alcoho	4.553	108	395454	14.1507	ug/mL#	65
14) bis2clispreth	4.715	45	1419797	14.8035	ug/mL	95
15) 2Methylphenol	4.681	108	668677	14.0970	ug/mL	96
16) Ntrspyrrol	4.863	100	415550	16.5751	ug/mL	77
17) Acetophenone	4.883	105	1087611	15.3661	ug/mL	82
18) Hexaclethane	4.996	117	322094	14.5611	ug/mL	96
19) N-Ntrsdinprop	4.888	70	500964	15.8132	ug/mL	95
20) 3&4Methylphenol	4.888	108	738536	15.6116	ug/mL	97
23) Nitrobenzene	5.101	77	723085	15.6242	ug/mL	85
24) Isophorone	5.457	82	1654912	16.2005	ug/mL	94
25) 2-Nitrophenol	5.559	139	510413	14.7502	ug/mL	78
26) 24Dimthpheno	5.641	107	182280	3.4761	ug/mL	87
27) bis2clethoxym	5.772	93	1206475	17.1305	ug/mL	88
28) 24Diclphenol	5.872	162	822373	16.7956	ug/mL	99
29) 124Triclbenz	5.968	180	927328	15.2966	ug/mL	95
30) Benzoic acid	5.715	105	31150	3.6831	ug/mL	84
31) Naphthalene	6.053	128	3108106	16.2227	ug/mL	99
32) 4-Cl-aniline	6.139	127	37694	0.5245	ug/mL	93
33) 26Diclphenol	6.133	162	703454	15.8667	ug/mL	96
34) Hexaclprop	6.150	213	343629	11.0221	ug/mL	99
35) Hexaclbutdien	6.195	225	425258	14.9197	ug/mL	97
36) 4Cl3methylphe	6.636	107	787264	16.8103	ug/mL	83
37) 2Methylnaphth	6.747	141	1786933	16.7086	ug/mL	99
38) 1Methylnaphth	6.829	141	1877883	16.9178	ug/mL	97
40) Hxclcycpentdi	6.877	237	117671	3.9088	ug/mL	99
41) 1245Tetrclbenz	6.889	216	867580	16.2724	ug/mL	96
42) 246Triclpheno	6.988	196	567937	16.1719	ug/mL	88

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120910\870189DR.D Vial: 22
Acq On : 9 Dec 2010 20:46 Operator: RPN
Sample : 72359,MSDS870189,1 Inst : SVMS2
Misc : 877490,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 15 16:51:18 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Wed Dec 15 16:47:07 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

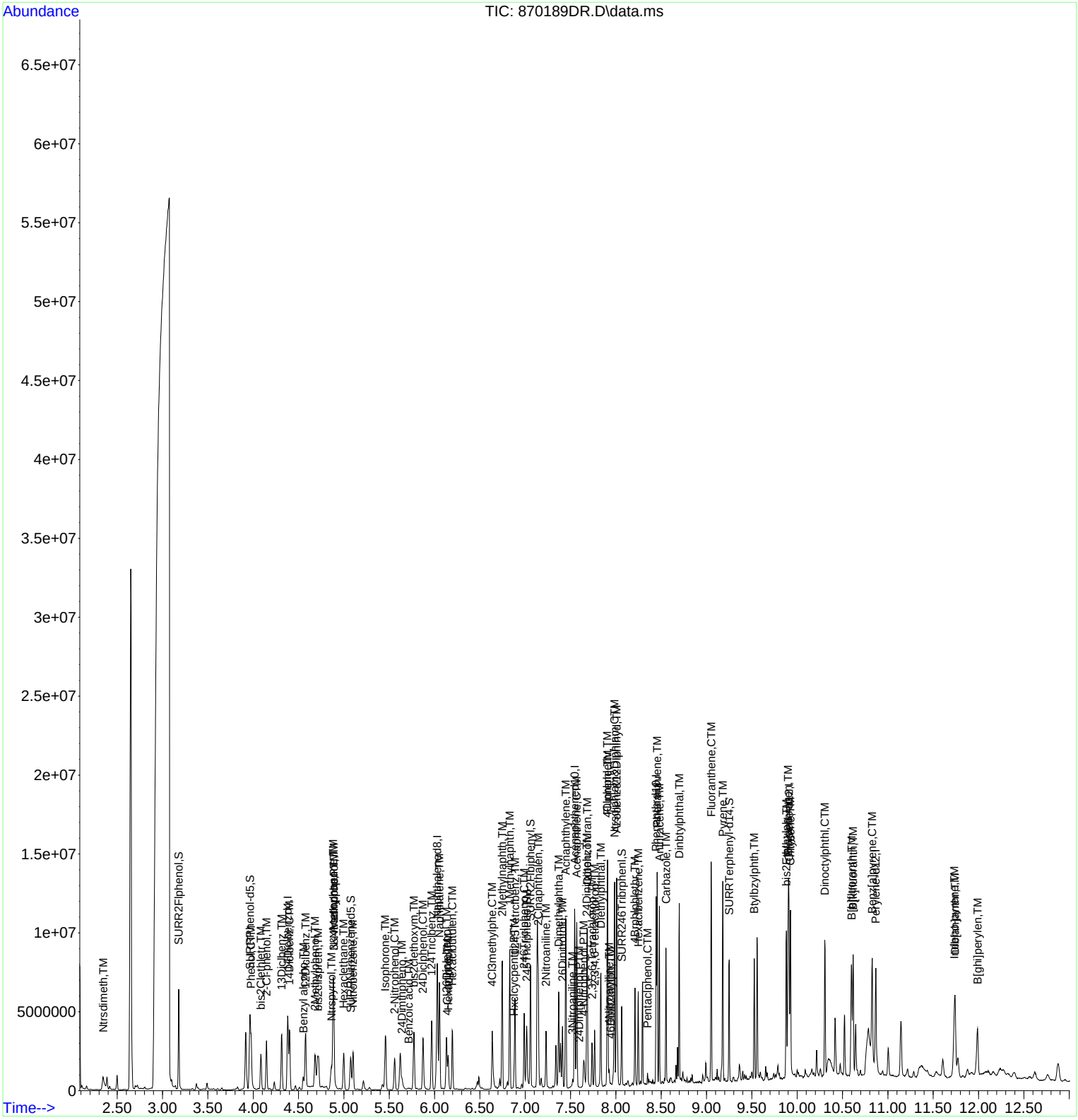
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) 245Triclpheno	7.017	196	605347	16.2288 ug/mL	94
45) 2Clnaphthalen	7.144	162	1890255	16.3470 ug/mL	95
46) 2Nitroaniline	7.230	65	459191	17.0069 ug/mL#	71
47) Acnaphthylene	7.449	152	3264801	16.4800 ug/mL	97
48) Dimethylphtha	7.369	163	2200736	16.1954 ug/mL	99
49) 26Dinitrotolu	7.412	165	490552	16.6895 ug/mL	81
50) Acenaphthene	7.568	153	2065756	16.5856 ug/mL	100
51) 3Nitroaniline	7.522	138	114472	3.6388 ug/mL	84
52) 24Dinitphenol	7.596	184	2737	2.5147 ug/mL	81
53) Dibenzofuran	7.684	168	2681863	16.5486 ug/mL	93
54) 24Dinitrotolu	7.679	165	624612	17.1666 ug/mL	85
55) 4-Nitrophenol	7.645	109	142942	14.1792 ug/mL#	70
56) 2,3,5,6-Tetrachlorop	7.738	232	299278	10.7616 ug/mL	96
57) 2,3,4,6-Tetrachlorop	7.767	232	388376	13.1597 ug/mL	98
58) Fluorene	7.909	166	2125082	16.2624 ug/mL	98
59) 4Clphlphlethr	7.906	204	942999	16.2232 ug/mL	94
60) Diethylphthal	7.835	149	2253983	16.4335 ug/mL	99
61) 4Nitroaniline	7.926	138	266244	8.6237 ug/mL#	70
64) 46Dinit2mylph	7.943	198	13206	0.6238 ug/mL#	58
65) Ntrsdiphlam&Diphlam	7.986	169	2600477	29.9672 ug/mL	99
66) Azobenz&12Diphlhyd	8.008	182	1092267	33.3179 ug/mL#	77
67) 4Brphlphlethr	8.210	248	531913	16.7779 ug/mL	90
68) Hexaclbenzene	8.247	284	536336	16.3098 ug/mL	98
69) Pentaclphenol	8.349	266	54711	5.4152 ug/mL	95
70) Phenanthrene	8.454	178	3041568	19.6340 ug/mL	100
71) Anthracene	8.480	178	2679937	17.0636 ug/mL	98
72) Carbazole	8.554	167	2353521	17.6888 ug/mL	97
73) Dinbtylphthal	8.699	149	3297521	18.3560 ug/mL	99
74) Fluoranthene	9.051	202	3768003	24.1036 ug/mL	99
76) Benzidine	9.247	184	16785	Below Cal	91
77) Pyrene	9.179	202	3586776	24.4400 ug/mL	95
79) Btylbzylphth	9.526	149	1306224	18.3052 ug/mL	90
80) 33Diclbnzidin	9.946	252	2302	Below Cal	74
81) B[a]anthracen	9.901	228	2822076	20.6192 ug/mL	99
82) Chrysene	9.926	228	2681814	20.4509 ug/mL	98
83) bis2Ethlhxlph	9.881	149	2114128	20.3850 ug/mL	100
84) Dinoctylphthl	10.304	149	3224314	17.4974 ug/mL	100
86) B[b]fluoranth	10.600	252	2707039	21.7845 ug/mL	99
87) B[k]fluoranth	10.617	252	2201322	18.7541 ug/mL	99
88) Benz[a]pyrene	10.827	252	2123049	18.7186 ug/mL	99
89) Indeno-pyrene	11.733	276	1876317	16.2925 ug/mL	95
90) Dib[ah]anthr	11.742	278	1458909	15.6132 ug/mL	99
91) B[ghi]perylen	11.989	276	1471516	15.3830 ug/mL	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120910\870189DR.D Vial: 22
Acq On : 9 Dec 2010 20:46 Operator: RPN
Sample : 72359,MSDS870189,1 Inst : SVMS2
Misc : 877490,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 15 16:51:18 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Wed Dec 15 16:47:07 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M



SEMI - VOLATILE ORGANIC ANALYSIS
LOGBOOK
DOCUMENTS

S 8330B EXPLOSIVES QSM Analytical Run
72413 on 12/30/2010

RED
12/30/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	875951						8330B EXPLOSIVES QSM				
				MBS				35571			
	875952						8330B EXPLOSIVES QSM				
				LCSS				35571			
82424	870201		11/9/2010 1525		USACE - LOUISVILLE	RAVENNA	8330B EXPLOSIVES QSM		S	**4**	
		DLASS-014-0001-SO		Designated MS/MSD				35571			
	875953		11/9/2010 1525				8330B EXPLOSIVES QSM				
		DLASS-014-0001-SO		MSS 870201				35571			
	875954		11/9/2010 1525				8330B EXPLOSIVES QSM				
		DLASS-014-0001-SO		MSDS 875953				35571			
82424	870203		11/9/2010 1535		USACE - LOUISVILLE	RAVENNA	8330B EXPLOSIVES QSM		S	**4**	
		DLASS-014-0003-SO						35571			
82458	871184		11/11/2010 0900		USACE - LOUISVILLE	RAVENNA ORE PILES	8330B EXPLOSIVES QSM		S	**4**	
		DLASS-032-0003-SO						35571			
82458	871186		11/11/2010 1230		USACE - LOUISVILLE	RAVENNA ORE PILES	8330B EXPLOSIVES QSM		S	**4**	
		DLASS-042-0003-SO						35571			
82458	871197		11/11/2010 1220		USACE - LOUISVILLE	RAVENNA ORE PILES	8330B EXPLOSIVES QSM		S	**4**	
		DLASS-042-0001-SO						35571			
82458	871198		11/11/2010 0900		USACE - LOUISVILLE	RAVENNA ORE PILES	8330B EXPLOSIVES QSM		S	**4**	
		DLASS-032-0001-SO						35571			

10 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

PREP WORKSHEET
on 12/30/2010

Prep Batch **35,571**

Prepped By:: RED

Date Prepped: 12/2/2010

Date Entered:

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
	875951	MBS		8330B EXPLOSIVES QSM	SOLID	20.0	9.90			
	875952	LCSS		8330B EXPLOSIVES QSM	SOLID	20.0	10.07			
82424	870201	*		8330B EXPLOSIVES QSM	SOIL	20.0	10.12		N	
	870203			8330B EXPLOSIVES QSM	SOIL	20.0	9.97		N	
82458	871184			8330B EXPLOSIVES QSM	SOIL	20.0	9.92		N	
	871186			8330B EXPLOSIVES QSM	SOIL	20.0	9.94		N	
	871197			8330B EXPLOSIVES QSM	SOIL	20.0	10.00		N	
	871198			8330B EXPLOSIVES QSM	SOIL	20.0	9.94		N	
	875953	MSS	870201	8330B EXPLOSIVES QSM	SOIL	20.0	9.95			
	875954	MSDS	875953	8330B EXPLOSIVES QSM	SOIL	20.0	10.09			

Control Spike/Control Spike Dup Reference Number:_____ Methanol Supplier/Lot #:_____

Notes:_____

Distibution:

C:\LIMSREPS\PREPWRKSHT.RPT

Table 6
8330A/8330B Bench Sheet

Explosives Prep Bench Sheet
SOP Reference Number 8330A & 8330B

Method references: 8330A (Explosives) – Water/Soil
8330B (Explosives) – Water/Soil
3535 (SPE) - Water

Test (circle one): Explosives *or* Nitroguanidine

Matrix: (Soil) Groundwater other_____ **Prep Batch Number** 355771

Spike and Surrogate Information:
Spike amount and concentration (Matrix Spikes and LCS): 2.00mL @ 10/40 ug/mL
Spike Reference: Exp 4060
Surrogate amount and concentration: 2.00mL @ 10ug/mL
Surrogate Reference: Exp 4081

Extraction Information and Reagent Lot #: Balance used Fisher A-200DS
Extraction solvent: ACN Supplier: Mallinckrodt Lot #: J19500
Dilution solvent: 0.1% formic acid in H2O Supplier Sigma-Aldrich Lot #: 04817JE
Soil sonication start time/ date: 12/2/10 @ 15:00 Soil sonication stop time/ date: 12/3/2010 @ 9:00
Extraction by: REO Date 12/2/2010 Start Time 13:30 End Time 14:45
GPC by: — GPC start time/date — GPC end time/date —
Concentration by: — Date

Client	Sample Number	Sample Amt. (gm or mL)	Initial Extract Vol.* (mL)	Final Extract Vol. ** (mL)	Comments
					Grinding Blank 12-2-2010
Method Blank	MB 875957	9.90	20.0	40.0	~~Sand~~ Blank
Control Spike	LCS 875952	10.07			Exp 4062
Matrix Spike	MS 870201	9.95			
Matrix Spike Dup.	MSD 870201	10.09			
Sample Duplicate	DUP 870201	9.92			
Sample Triplicate	TRIP 870201	10.00			
USACE	870201	10.12			
	870203	9.97			
	871184	9.92			
	871186	9.94			
	871197	10.00			
	871198	9.94			

REO 12/2/2010

*Initial volumes include volume contributed from spiking solutions
**Final soil extract volumes diluted with equivalent volume of DI water or 0.1% formic acid in water solution before analysis.
Footnotes:

Table 5

8330B Analysis Data Review Checklist

Analytical Run #: 72413	**Independent Reviewer: JJY**
Sequence Date: 12/13/2010	**Date of Review: 12/17/2010**
Analyst/Data Interpreter: red	**Approval: YES**

Instructions: Complete one checklist per *analytical run* . Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section, and may require the initiation of a Nonconformance Report.

Requirements:	Acceptance Criteria	Analyst Review		Independent Review		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
1. INITIAL CALIBRATION (ICAL)						
a. Was the Explosive initial calibration performed using a minimum of five varying standard concentration levels?	Lowest standard at or near MRL	**Yes**		**Yes**		
b. Is the variation between calibration response factors for all concentration levels <15% RSD, is r^2 >.990, or r > 0.995 for the regression line?		**Yes**		**Yes**		
c. Was each ICAL uniquely identified (i.e. Standard Number)?	RSD<15%, r^2>0.990, or r>0.995	**Yes**		**Yes**		
d. Was an initial calibration blank (ICB) analyzed?		**Yes**		**Yes**		
2. INITIAL CALIBRATION VERIFICATION (ICV)						
a. Was there a second source ICV for all target analytes analyzed after the initial calibration and prior to analysis of any samples?	Second source	**Yes**		**Yes**		
b. Were the recoveries for the ICV between 85-115% (80-120% for QSM).	% Recovery	**Yes**		**Yes**		
c. Was the ICV uniquely identified (i.e. Standard Number)?		**Yes**		**Yes**		
3. CONTINUING CALIBRATION VERIFICATION (CCV)						
samples (which ever comes first)(every 10 samples for QSM) and at the end of the analytical run?		**Yes**		**Yes**		
b. Were the recoveries for the CCVs within program limits?	%Recovery	**Yes**		**Yes**		
c. Was each CCV uniquely identified (i.e. Standard Number)?		**Yes**		**Yes**		

Additional Comments:

Analytical Run #: 72413

Table 5

8330B Analysis Data Review Checklist

Requirements:	Acceptance Criteria	Analyst		Independent		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
4. BLANKS						
a. Was a method blank (MB) analyzed prior to the analysis of samples?		**Yes**		**Yes**		
b. Was the MB result less than ½ the reporting limit (RL) or 5% of the sample amount (QSM: less than 1/2 the RL and <10% of the sample amount)?		**Yes**		**Yes**		
c. Was a MB prepped and analyzed at a frequency of one per Prep Batch?	Batch ≤20 samples	**Yes**		**Yes**		
5. LABORATORY CONTROL SAMPLE (LCS)						
a. Was a LCS analyzed at a frequency of one per Prep Batch?	Batch ≤20 samples	**Yes**		**Yes**		
b. Were the LCS recoveries in each LCS within the acceptance criteria?	Per Program	**Yes**		**Yes**		
6. MATRIX SPIKES						
a. Was a matrix spiked (MS) sample analyzed at a frequency one per Prep Batch?	Batch ≤20 samples	**Yes**		**Yes**		
b. Were MS recoveries in each MS within the acceptance criteria?	Per Program	**Yes**		**Yes**		
7. MATRIX SPIKE DUPLICATE						
a. Was a duplicate matrix spike sample analyzed at a frequency one per Prep Batch?	Batch <20 samples	**Yes**		**Yes**		
b. Were MSD within the acceptance criteria?	Per Program	**Yes**		**Yes**		
c. Is the relative percent difference (RPD) between a matrix spike (MS) and its duplicate (MSD) within the acceptance criteria?	Per Program QSM: 30% RPD	**Yes**		**Yes**		

Additional Comments:

Analytical Run #: 72413

Table 5

8330B Analysis Data Review Checklist

Requirements:	Acceptance Criteria	Analyst		Independent		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
8. SAMPLES (INCLUDING BLANKS, STANDARDS, AND QC SAMPLES)						
a. Are chromatogram characteristics, including peak shapes and areas, consistent with those of the CCV?		**Yes**		**Yes**		
b. Are surrogate recoveries for all samples, blanks, standards, and QC samples within acceptance criteria?			**No**		**No**	see below
c. Were all samples having analytes detected in amounts exceeding the calibration range diluted and reanalyzed?		**Yes**		**Yes**		
d. Were all samples extracted within holding times and analyzed within 40 days of extracting?	Analysis within 40 days of extraction	**Yes**		**Yes**		
e. Was there a acetonitrile:H2O injection preformed prior to sample analysis?		**Yes**		**Yes**		
f. If any analytes were detected in the soil grinding blanks, were the associated samples B-flagged?	< 1/2 RL	**Yes**		**Yes**		
g. Was the batch soil triplicate RSD within acceptance criteria?	<20%	**Yes**		**Yes**		
9. RECORDS AND REPORTING						
a. Are Run, Prep Batch and Extraction sheets, Summary sheets, Sequence file, initial and rerun raw and process data present in the PDF file?		**Yes**		**Yes**		
b. Are all chromatograms dated and initialed?		**Yes**		**Yes**		
c. Are reported results whose amounts exceeded the acceptance criteria flagged with an appropriate qualifier and, if needed, a NCR completed?		**Yes**		**Yes**		
d. Do all values, dilution factors and qualifiers listed on the raw reports match the LIMS data?		**Yes**		**Yes**		
e. Is the ICAL method referenced on the Raw Data?		**Yes**		**Yes**		

Additional Comments:

Samples 870203, 871184, 871186 had high surrogate recoveries. Project management instructed not to confirm the samples since there were no analyte hits. The surrogate was qualified with an "S" flag.

S 8330B EXPLOSIVES QSM Analytical Run
72415 on 12/30/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	877974						8330B EXPLOSIVES QSM				
				MBS				35669			
	877975						8330B EXPLOSIVES QSM				
				LCSS				35669			
82424	870189		11/10/2010 1015		USACE - LOUISVILLE	RAVENNA	8330B EXPLOSIVES QSM		S	**4**	
		DLASS-002-0001-SO		Designated MS/MSD				35669			
	877976		11/10/2010 1015				8330B EXPLOSIVES QSM				
		DLASS-002-0001-SO		MSS 870189				35669			
	877977		11/10/2010 1015				8330B EXPLOSIVES QSM				
		DLASS-002-0001-SO		MSDS 877976				35669			
82424	870194		11/9/2010 1220		USACE - LOUISVILLE	RAVENNA	8330B EXPLOSIVES QSM		S	**4**	
		DLASS-022-0001-SO						35669			
82424	870195		11/9/2010 1230		USACE - LOUISVILLE	RAVENNA	8330B EXPLOSIVES QSM		S	**4**	
		DLASS-022-0003-SO						35669			
82424	870212		11/10/2010 1025		USACE - LOUISVILLE	RAVENNA	8330B EXPLOSIVES QSM		S	**4**	
		DLASS-002-0003-SO						35669			

8 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

PREP WORKSHEET
on 12/30/2010

Prep Batch **35,669**

Prepped By:: RED

Date Prepped: 12/6/2010

Date Entered:

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
	877974	MBS		8330B EXPLOSIVES QSM	SOLID	20.0	10.07			
	877975	LCSS		8330B EXPLOSIVES QSM	SOLID	20.0	9.96			
82424	870189	*		8330B EXPLOSIVES QSM	SOIL	20.0	9.90		N	
	870194			8330B EXPLOSIVES QSM	SOIL	20.0	9.92		N	
	870195			8330B EXPLOSIVES QSM	SOIL	20.0	9.91		N	
	870212			8330B EXPLOSIVES QSM	SOIL	20.0	9.95		N	
	877976	MSS	870189	8330B EXPLOSIVES QSM	SOIL	20.0	9.93			
	877977	MSDS	877976	8330B EXPLOSIVES QSM	SOIL	20.0	9.94			

Control Spike/Control Spike Dup Reference Number:_____ Methanol Supplier/Lot #:_____

Notes:_____

Distibution:

C:\LIMSREPS\PREPWRKSHT.RPT

Table 6
8330A/8330B Bench Sheet

Explosives Prep Bench Sheet
SOP Reference Number 8330A & 8330B

Method references: 8330A (Explosives) – Water/Soil
8330B (Explosives) – Water/Soil
3535 (SPE) - Water

Test (circle one): Explosives or Nitroguanidine

Matrix: (Soil) Groundwater other_____

Prep Batch Number 356699

Spike and Surrogate Information:
Spike amount and concentration (Matrix Spikes and LCS): 2.00mL @ 10/40 ug/mL
Spike Reference: EXP 4080
Surrogate amount and concentration: 2.00mL @ 10 ug/mL
Surrogate Reference: EXP 4081

Extraction Information and Reagent Lot #: Balance used Fisher A-200105
Extraction solvent: ACN Supplier: Mallinckrodt Lot #: J19500
Dilution solvent: 0.1% formic acid in H2O Supplier Sigma-Aldrich Lot #: 04817JE
Soil sonication start time/ date: 12/6/2010 @ 19:00 Soil sonication stop time/ date: 12/7/2010 @ 13:00
Extraction by: KMS Date 12/6/2010 Start Time 17:15 End Time 18:15
GPC by: _____ GPC start time/date_____ GPC end time/date_____
Concentration by: _____ Date _____

Client	Sample Number	Sample Amt. (gm or mL)	Initial Extract Vol.* (mL)	Final Extract Vol. ** (mL)	Comments
Method Blank	MB 877974	10.07	20.0	40.0	Grinelli vg Blank EXP 4068
Control Spike	LCS 877975	9.96	↓	↓	
Matrix Spike	MS 870189	9.93			
Matrix Spike Dup.	MSD 870189	9.94			
Sample Duplicate	DUP 870189	10.05			
Sample Triplicate	TRIP 870189	9.95			
VBACE	870189	9.90			
	870194	9.92			
	870195	9.91			
↓	870212	9.95	↓	↓	

Keep with Prep

*Initial volumes include volume contributed from spiking solutions
**Final soil extract volumes diluted with equivalent volume of DI water or 0.1% formic acid in water solution before analysis.
Footnotes:

Table 5

8330B Analysis Data Review Checklist

Analytical Run #: 72415	**Independent Reviewer: JJY**
Sequence Date: 12/13/2010	**Date of Review: 12/17/2010**
Analyst/Data Interpreter: red	**Approval: YES**

Instructions: Complete one checklist per *analytical run* . Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section, and may require the initiation of a Nonconformance Report.

Requirements:	Acceptance Criteria	Analyst Review		Independent Review		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
1. INITIAL CALIBRATION (ICAL)						
a. Was the Explosive initial calibration performed using a minimum of five varying standard concentration levels?	Lowest standard at or near MRL	**Yes**		**Yes**		
b. Is the variation between calibration response factors for all concentration levels <15% RSD, is r^2 >.990, or r > 0.995 for the regression line?		**Yes**		**Yes**		
c. Was each ICAL uniquely identified (i.e. Standard Number)?	RSD<15%, r^2>0.990, or r>0.995	**Yes**		**Yes**		
d. Was an initial calibration blank (ICB) analyzed?		**Yes**		**Yes**		
2. INITIAL CALIBRATION VERIFICATION (ICV)						
a. Was there a second source ICV for all target analytes analyzed after the initial calibration and prior to analysis of any samples?	Second source	**Yes**		**Yes**		
b. Were the recoveries for the ICV between 85-115% (80-120% for QSM).	% Recovery	**Yes**		**Yes**		
c. Was the ICV uniquely identified (i.e. Standard Number)?		**Yes**		**Yes**		
3. CONTINUING CALIBRATION VERIFICATION (CCV)						
samples (which ever comes first)(every 10 samples for QSM) and at the end of the analytical run?		**Yes**		**Yes**		
b. Were the recoveries for the CCVs within program limits?	%Recovery	**Yes**		**Yes**		
c. Was each CCV uniquely identified (i.e. Standard Number)?		**Yes**		**Yes**		

Additional Comments:

Analytical Run #: 72415

Table 5

8330B Analysis Data Review Checklist

Requirements:	Acceptance Criteria	Analyst		Independent		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
4. BLANKS						
a. Was a method blank (MB) analyzed prior to the analysis of samples?		**Yes**		**Yes**		
b. Was the MB result less than ½ the reporting limit (RL) or 5% of the sample amount (QSM: less than 1/2 the RL and <10% of the sample amount)?		**Yes**		**Yes**		
c. Was a MB prepped and analyzed at a frequency of one per Prep Batch?	Batch ≤20 samples	**Yes**		**Yes**		
5. LABORATORY CONTROL SAMPLE (LCS)						
a. Was a LCS analyzed at a frequency of one per Prep Batch?	Batch ≤20 samples	**Yes**		**Yes**		
b. Were the LCS recoveries in each LCS within the acceptance criteria?	Per Program	**Yes**		**Yes**		
6. MATRIX SPIKES						
a. Was a matrix spiked (MS) sample analyzed at a frequency one per Prep Batch?	Batch ≤20 samples	**Yes**		**Yes**		
b. Were MS recoveries in each MS within the acceptance criteria?	Per Program		**No**		**No**	2-NT had high recovery in the MS but there were no analyte hits in the parent sample so no action or flagging was necessary
7. MATRIX SPIKE DUPLICATE						
a. Was a duplicate matrix spike sample analyzed at a frequency one per Prep Batch?	Batch <20 samples	**Yes**		**Yes**		
b. Were MSD within the acceptance criteria?	Per Program	**Yes**		**Yes**		
c. Is the relative percent difference (RPD) between a matrix spike (MS) and its duplicate (MSD) within the acceptance criteria?	Per Program QSM: 30% RPD	**Yes**		**Yes**		

Additional Comments:

Analytical Run #: 72415

Table 5

8330B Analysis Data Review Checklist

Requirements:	Acceptance Criteria	Analyst		Independent		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
8. SAMPLES (INCLUDING BLANKS, STANDARDS, AND QC SAMPLES)						
a. Are chromatogram characteristics, including peak shapes and areas, consistent with those of the CCV?		**Yes**		**Yes**		
b. Are surrogate recoveries for all samples, blanks, standards, and QC samples within acceptance criteria?			**No**		**No**	see below
c. Were all samples having analytes detected in amounts exceeding the calibration range diluted and reanalyzed?		**Yes**		**Yes**		
d. Were all samples extracted within holding times and analyzed within 40 days of extracting?	Analysis within 40 days of extraction	**Yes**		**Yes**		
e. Was there a acetonitrile:H2O injection preformed prior to sample analysis?		**Yes**		**Yes**		
f. If any analytes were detected in the soil grinding blanks, were the associated samples B-flagged?	< 1/2 RL	**Yes**		**Yes**		
g. Was the batch soil triplicate RSD within acceptance criteria?	<20%	**Yes**		**Yes**		
9. RECORDS AND REPORTING						
a. Are Run, Prep Batch and Extraction sheets, Summary sheets, Sequence file, initial and rerun raw and process data present in the PDF file?		**Yes**		**Yes**		
b. Are all chromatograms dated and initialed?		**Yes**		**Yes**		
c. Are reported results whose amounts exceeded the acceptance criteria flagged with an appropriate qualifier and, if needed, a NCR completed?		**Yes**		**Yes**		
d. Do all values, dilution factors and qualifiers listed on the raw reports match the LIMS data?		**Yes**		**Yes**		
e. Is the ICAL method referenced on the Raw Data?		**Yes**		**Yes**		

Additional Comments:

Samples 870203, 871184, 871186 had high surrogate recoveries. Project management instructed not to confirm the samples since there were no analyte hits. The surrogate was qualified with an "S" flag.

S EXPLOSIVES NITROGUAN Analytical Run
72412 on 12/30/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	875959						EXPLOSIVES NITROGUAN				
				MBS				35573			
	875960						EXPLOSIVES NITROGUAN				
				LCSS				35573			
82424	870201		11/9/2010 1525		USACE - LOUISVILLE	RAVENNA	EXPLOSIVES NITROGUAN		S	4	
		DLASS-014-0001-SO		Designated MS/MSD				35573			
	875962		11/9/2010 1525				EXPLOSIVES NITROGUAN				
		DLASS-014-0001-SO		MSS 870201				35573			
	875963		11/9/2010 1525				EXPLOSIVES NITROGUAN				
		DLASS-014-0001-SO		MSDS 875962				35573			
82424	870203		11/9/2010 1535		USACE - LOUISVILLE	RAVENNA	EXPLOSIVES NITROGUAN		S	4	
		DLASS-014-0003-SO						35573			
82458	871184		11/11/2010 0900		USACE - LOUISVILLE	RAVENNA ORE PILES	EXPLOSIVES NITROGUAN		S	4	
		DLASS-032-0003-SO						35573			
82458	871186		11/11/2010 1230		USACE - LOUISVILLE	RAVENNA ORE PILES	EXPLOSIVES NITROGUAN		S	4	
		DLASS-042-0003-SO						35573			
82458	871197		11/11/2010 1220		USACE - LOUISVILLE	RAVENNA ORE PILES	EXPLOSIVES NITROGUAN		S	4	
		DLASS-042-0001-SO						35573			
82458	871198		11/11/2010 0900		USACE - LOUISVILLE	RAVENNA ORE PILES	EXPLOSIVES NITROGUAN		S	4	
		DLASS-032-0001-SO						35573			

10 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

PREP WORKSHEET
on 12/30/2010

Prep Batch **35,573**

Prepped By:: RED

Date Prepped: 12/2/2010

Date Entered:

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
	875959	MBS		EXPLOSIVES	SOLID	10.0	5.20			
	875960	LCSS		EXPLOSIVES	SOLID	10.0	5.14			
82424	870201	*		EXPLOSIVES	SOIL	10.0	5.06		N	
	870203			EXPLOSIVES	SOIL	10.0	5.00		N	
82458	871184			EXPLOSIVES	SOIL	10.0	5.01		N	
	871186			EXPLOSIVES	SOIL	10.0	4.94		N	
	871197			EXPLOSIVES	SOIL	10.0	4.97		N	
	871198			EXPLOSIVES	SOIL	10.0	4.94		N	
	875962	MSS	870201	EXPLOSIVES	SOIL	10.0	5.17			
	875963	MSDS	875962	EXPLOSIVES	SOIL	10.0	4.99			

Control Spike/Control Spike Dup Reference Number:_____ Methanol Supplier/Lot #:_____

Notes:_____

Distibution:

C:\LIMSREPS\PREPWRKSHT.RPT

Table 6
8330A/8330B Bench Sheet

Explosives Prep Bench Sheet
SOP Reference Number 8330A & 8330B

Method references: 8330A (Explosives) – Water/Soil
8330B (Explosives) – Water/Soil
3535 (SPE) - Water

Test (circle one): Explosives *or* Nitroguanidine

Matrix: (Soil) Groundwater other_____ **Prep Batch Number** 355873

Spike and Surrogate Information:
Spike amount and concentration (Matrix Spikes and LCS): 1.00mL @ 10ug/mL
Spike Reference: Exp P405 9
Surrogate amount and concentration: 1.00mL @ 10ug/mL
Surrogate Reference: exp P 4081

Extraction Information and Reagent Lot #: Balance used Fisher A-200DS
Extraction solvent: Millipore H2O Supplier: — Lot #: —
Dilution solvent: MeOH Supplier Fisher Lot #: 103149
Soil sonication start time/ date: 12/2/2010 13:00 Soil sonication stop time/ date: 12/2/2010 @ 15:00
Extraction by: Rec'd Date 12/2/2010 Start Time 12:00 End Time 15:45
GPC by: — GPC start time/date — GPC end time/date —
Concentration by: Date

Client	Sample Number	Sample Amt. (g or mL)	Initial Extract Vol.* (mL)	Final Extract Vol. ** (mL)	Comments
				Rec'd 12/2/2010	Grinding Rec'd 12/2/2010
Method Blank	MB 875959	5.20	10.0	X 20.0	Soxhlet Blank
Control Spike	LCS 875960	5.14			Exp 4083
Matrix Spike	MS 870201	5.17			
Matrix Spike Dup.	MSD 870201	4.99			
Sample Duplicate	DUP 870201	4.91			
Sample Triplicate	TRIP 870201	5.00			
Rec'd 12/2/2010 USACE	870201	5.06			
	870203	5.00			
	871184	5.01			
	871186	4.94			
	871197	4.97			
	871198	4.94			

Rec'd 12/2/2010

*Initial volumes include volume contributed from spiking solutions
**Final soil extract volumes diluted with equivalent volume ~~of DI water or 0.1% formic acid in water solution~~ before analysis.
Footnotes: MeOH Rec'd 12-2-2010

Table 5

8330B Analysis Data Review Checklist

Analytical Run #: 72412	**Independent Reviewer: JJY**
Sequence Date: 12/16/2010	**Date of Review: 12/17/2010**
Analyst/Data Interpreter: red	**Approval: YES**

Instructions: Complete one checklist per *analytical run* . Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section, and may require the initiation of a Nonconformance Report.

Requirements:	Acceptance Criteria	Analyst Review		Independent Review		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
1. INITIAL CALIBRATION (ICAL)						
a. Was the Explosive initial calibration performed using a minimum of five varying standard concentration levels?	Lowest standard at or near MRL	**Yes**		**Yes**		
b. Is the variation between calibration response factors for all concentration levels <15% RSD, is r^2 >.990, or r > 0.995 for the regression line?		**Yes**		**Yes**		
c. Was each ICAL uniquely identified (i.e. Standard Number)?	RSD<15%, r^2>0.990, or r>0.995	**Yes**		**Yes**		
d. Was an initial calibration blank (ICB) analyzed?		**Yes**		**Yes**		
2. INITIAL CALIBRATION VERIFICATION (ICV)						
a. Was there a second source ICV for all target analytes analyzed after the initial calibration and prior to analysis of any samples?	Second source	**Yes**		**Yes**		
b. Were the recoveries for the ICV between 85-115% (80-120% for QSM).	% Recovery	**Yes**		**Yes**		
c. Was the ICV uniquely identified (i.e. Standard Number)?		**Yes**		**Yes**		
3. CONTINUING CALIBRATION VERIFICATION (CCV)						
samples (which ever comes first)(every 10 samples for QSM) and at the end of the analytical run?		**Yes**		**Yes**		
b. Were the recoveries for the CCVs within program limits?	%Recovery	**Yes**		**Yes**		
c. Was each CCV uniquely identified (i.e. Standard Number)?		**Yes**		**Yes**		

Additional Comments:

Analytical Run #: 72412

Table 5

8330B Analysis Data Review Checklist

Requirements:	Acceptance Criteria	Analyst		Independent		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
4. BLANKS						
a. Was a method blank (MB) analyzed prior to the analysis of samples?		**Yes**		**Yes**		
b. Was the MB result less than ½ the reporting limit (RL) or 5% of the sample amount (QSM: less than 1/2 the RL and <10% of the sample amount)?		**Yes**		**Yes**		
c. Was a MB prepped and analyzed at a frequency of one per Prep Batch?	Batch ≤20 samples	**Yes**		**Yes**		
5. LABORATORY CONTROL SAMPLE (LCS)						
a. Was a LCS analyzed at a frequency of one per Prep Batch?	Batch ≤20 samples	**Yes**		**Yes**		
b. Were the LCS recoveries in each LCS within the acceptance criteria?	Per Program	**Yes**		**Yes**		
6. MATRIX SPIKES						
a. Was a matrix spiked (MS) sample analyzed at a frequency one per Prep Batch?	Batch ≤20 samples	**Yes**		**Yes**		
b. Were MS recoveries in each MS within the acceptance criteria?	Per Program	**Yes**		**Yes**		
7. MATRIX SPIKE DUPLICATE						
a. Was a duplicate matrix spike sample analyzed at a frequency one per Prep Batch?	Batch <20 samples	**Yes**		**Yes**		
b. Were MSD within the acceptance criteria?	Per Program	**Yes**		**Yes**		
c. Is the relative percent difference (RPD) between a matrix spike (MS) and its duplicate (MSD) within the acceptance criteria?	Per Program QSM: 30% RPD	**Yes**		**Yes**		

Additional Comments:

Analytical Run #: 72412

Table 5

8330B Analysis Data Review Checklist

Requirements:	Acceptance Criteria	Analyst		Independent		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
8. SAMPLES (INCLUDING BLANKS, STANDARDS, AND QC SAMPLES)						
a. Are chromatogram characteristics, including peak shapes and areas, consistent with those of the CCV?			**No**		**No**	see below
b. Are surrogate recoveries for all samples, blanks, standards, and QC samples within acceptance criteria?		**Yes**		**Yes**		
c. Were all samples having analytes detected in amounts exceeding the calibration range diluted and reanalyzed?		**Yes**		**Yes**		
d. Were all samples extracted within holding times and analyzed within 40 days of extracting?	Analysis within 40 days of extraction	**Yes**		**Yes**		
e. Was there a acetonitrile:H2O injection preformed prior to sample analysis?		**Yes**		**Yes**		
f. If any analytes were detected in the soil grinding blanks, were the associated samples B-flagged?	< 1/2 RL	**Yes**		**Yes**		
g. Was the batch soil triplicate RSD within acceptance criteria?	<20%	**Yes**		**Yes**		
9. RECORDS AND REPORTING						
a. Are Run, Prep Batch and Extraction sheets, Summary sheets, Sequence file, initial and rerun raw and process data present in the PDF file?		**Yes**		**Yes**		
b. Are all chromatograms dated and initialed?		**Yes**		**Yes**		
c. Are reported results whose amounts exceeded the acceptance criteria flagged with an appropriate qualifier and, if needed, a NCR completed?		**Yes**		**Yes**		
d. Do all values, dilution factors and qualifiers listed on the raw reports match the LIMS data?		**Yes**		**Yes**		
e. Is the ICAL method referenced on the Raw Data?		**Yes**		**Yes**		

Additional Comments:

The nitroguanidine (NQ) peak shapes in the client samples on the primary column analysis (sequence 121610NQ-primary) were irregular. They appeared to have something co-eluting with them, but splitting the contaminant from the NQ peak was not a good option. The NQ peaks on the confirmation column analysis had the correct shape and did not appear to have any co-eluting contamination issues. Therefore, all NQ data was reported from the confirmation column analysis on sequence 121610NQic-confirm.

Also, because of the contamination issues with NQ on the primary column, in most samples, the NQ result on the primary analysis was greater than 40% different than the NQ result on the confirmation analysis. When this happened, NQ was qualified with a "P" flag and both the primary and confirmation values were listed in a separate table that will accompany the data package.

S EXPLOSIVES NITROGUAN Analytical Run
72414 on 12/30/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	877978						EXPLOSIVES NITROGUAN				
				MBS				35670			
	877979						EXPLOSIVES NITROGUAN				
				LCSS				35670			
82424	870189		11/10/2010 1015		USACE - LOUISVILLE	RAVENNA	EXPLOSIVES NITROGUAN		S	4	
		DLASS-002-0001-SO		Designated MS/MSD				35670			
	877981		11/10/2010 1015				EXPLOSIVES NITROGUAN				
		DLASS-002-0001-SO		MSS 870189				35670			
	877982		11/10/2010 1015				EXPLOSIVES NITROGUAN				
		DLASS-002-0001-SO		MSDS 877981				35670			
82424	870194		11/9/2010 1220		USACE - LOUISVILLE	RAVENNA	EXPLOSIVES NITROGUAN		S	4	
		DLASS-022-0001-SO						35670			
82424	870195		11/9/2010 1230		USACE - LOUISVILLE	RAVENNA	EXPLOSIVES NITROGUAN		S	4	
		DLASS-022-0003-SO						35670			
82424	870212		11/10/2010 1025		USACE - LOUISVILLE	RAVENNA	EXPLOSIVES NITROGUAN		S	4	
		DLASS-002-0003-SO						35670			

8 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

PREP WORKSHEET
on 12/30/2010

Prep Batch **35,670**

Prepped By:: RED

Date Prepped: 12/6/2010

Date Entered:

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
	877978	MBS		EXPLOSIVES	SOLID	10.0	5.00			
	877979	LCSS		EXPLOSIVES	SOLID	10.0	4.96			
82424	870189	*		EXPLOSIVES	SOIL	10.0	5.01		N	
	870194			EXPLOSIVES	SOIL	10.0	5.10		N	
	870195			EXPLOSIVES	SOIL	10.0	5.05		N	
	870212			EXPLOSIVES	SOIL	10.0	4.91		N	
	877981	MSS	870189	EXPLOSIVES	SOIL	10.0	5.04			
	877982	MSDS	877981	EXPLOSIVES	SOIL	10.0	4.93			

Control Spike/Control Spike Dup Reference Number:_____ Methanol Supplier/Lot #:_____

Notes:_____

Distibution: C:\LIMSREPS\PREPWRKSHT.RPT

Table 6
8330A/8330B Bench Sheet

Explosives Prep Bench Sheet
SOP Reference Number 8330A & 8330B

Method references: 8330A (Explosives) – Water/Soil
~~8330B~~ (Explosives) – Water/Soil
3535 (SPE) - Water

Test (circle one): Explosives *or* Nitroguanidine

Matrix: Soil Groundwater other_____ **Prep Batch Number** 35670

Spike and Surrogate Information:

Spike amount and concentration (Matrix Spikes and LCS): 1.00 mL @ 10 ug/mL

Spike Reference: EXP 4059

Surrogate amount and concentration: 1.00 mL @ 10 ug/mL

Surrogate Reference: EXP 4083

Extraction Information and Reagent Lot #: Balance used Fisher A-200DS

Extraction solvent: Milli-Q water Supplier: — Lot #: —

Dilution solvent: MeOH Supplier Fisher Lot #: 103149

Soil sonication start time/ date: 12/6/2010 @ 12:00 Soil sonication stop time/ date: 12/6/2010 @ 19:00

Extraction by: PWS Date 12/6/2010 Start Time 16:00 End Time 16:45

GPC by: — GPC start time/date — GPC end time/date —

Concentration by: — Date —

Client	Sample Number	Sample Amt. (gm or mL)	Initial Extract Vol.* (mL)	Final Extract Vol. ** (mL)	Comments
Method Blank	MB 877978	5.00	10.0	20.0	Grinding Blank
Control Spike	LCS 877979	4.96			EXP 4083
Matrix Spike	MS 870189	5.04			
Matrix Spike Dup.	MSD 870189	4.93			
Sample Duplicate	DUP 870189	5.12			
Sample Triplicate	TRIP 870189	5.10			
USACE	870189	5.01			
	870194	5.10			
	870195	5.05			
	870212	4.91			

Kym 12/6/2010

*Initial volumes include volume contributed from spiking solutions

**Final soil extract volumes diluted with equivalent volume of ~~DI water or 0.1% formic acid in water solution~~ before analysis.

Footnotes:

MeOH 12-6-2010

Table 5

8330B Analysis Data Review Checklist

Analytical Run #: 72414	**Independent Reviewer: JJY**
Sequence Date: 12/16/2010	**Date of Review: 12/17/2010**
Analyst/Data Interpreter: red	**Approval: YES**

Instructions: Complete one checklist per *analytical run* . Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section, and may require the initiation of a Nonconformance Report.

Requirements:	Acceptance Criteria	Analyst Review		Independent Review		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
1. INITIAL CALIBRATION (ICAL)						
a. Was the Explosive initial calibration performed using a minimum of five varying standard concentration levels?	Lowest standard at or near MRL	**Yes**		**Yes**		
b. Is the variation between calibration response factors for all concentration levels <15% RSD, is r^2 >.990, or r > 0.995 for the regression line?		**Yes**		**Yes**		
c. Was each ICAL uniquely identified (i.e. Standard Number)?	RSD<15%, r^2>0.990, or r>0.995	**Yes**		**Yes**		
d. Was an initial calibration blank (ICB) analyzed?		**Yes**		**Yes**		
2. INITIAL CALIBRATION VERIFICATION (ICV)						
a. Was there a second source ICV for all target analytes analyzed after the initial calibration and prior to analysis of any samples?	Second source	**Yes**		**Yes**		
b. Were the recoveries for the ICV between 85-115% (80-120% for QSM).	% Recovery	**Yes**		**Yes**		
c. Was the ICV uniquely identified (i.e. Standard Number)?		**Yes**		**Yes**		
3. CONTINUING CALIBRATION VERIFICATION (CCV)						
samples (which ever comes first)(every 10 samples for QSM) and at the end of the analytical run?		**Yes**		**Yes**		
b. Were the recoveries for the CCVs within program limits?	%Recovery	**Yes**		**Yes**		
c. Was each CCV uniquely identified (i.e. Standard Number)?		**Yes**		**Yes**		

Additional Comments:

Analytical Run #: 72414

Table 5

8330B Analysis Data Review Checklist

Requirements:	Acceptance Criteria	Analyst		Independent		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
4. BLANKS						
a. Was a method blank (MB) analyzed prior to the analysis of samples?		**Yes**		**Yes**		
b. Was the MB result less than ½ the reporting limit (RL) or 5% of the sample amount (QSM: less than 1/2 the RL and <10% of the sample amount)?		**Yes**		**Yes**		
c. Was a MB prepped and analyzed at a frequency of one per Prep Batch?	Batch ≤20 samples	**Yes**		**Yes**		
5. LABORATORY CONTROL SAMPLE (LCS)						
a. Was a LCS analyzed at a frequency of one per Prep Batch?	Batch ≤20 samples	**Yes**		**Yes**		
b. Were the LCS recoveries in each LCS within the acceptance criteria?	Per Program	**Yes**		**Yes**		
6. MATRIX SPIKES						
a. Was a matrix spiked (MS) sample analyzed at a frequency one per Prep Batch?	Batch ≤20 samples	**Yes**		**Yes**		
b. Were MS recoveries in each MS within the acceptance criteria?	Per Program	**Yes**		**Yes**		
7. MATRIX SPIKE DUPLICATE						
a. Was a duplicate matrix spike sample analyzed at a frequency one per Prep Batch?	Batch <20 samples	**Yes**		**Yes**		
b. Were MSD within the acceptance criteria?	Per Program	**Yes**		**Yes**		
c. Is the relative percent difference (RPD) between a matrix spike (MS) and its duplicate (MSD) within the acceptance criteria?	Per Program QSM: 30% RPD	**Yes**		**Yes**		

Additional Comments:

Analytical Run #: 72414

Table 5

8330B Analysis Data Review Checklist

Requirements:	Acceptance Criteria	Analyst		Independent		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
8. SAMPLES (INCLUDING BLANKS, STANDARDS, AND QC SAMPLES)						
a. Are chromatogram characteristics, including peak shapes and areas, consistent with those of the CCV?			**No**		**No**	see below
b. Are surrogate recoveries for all samples, blanks, standards, and QC samples within acceptance criteria?		**Yes**		**Yes**		
c. Were all samples having analytes detected in amounts exceeding the calibration range diluted and reanalyzed?		**Yes**		**Yes**		
d. Were all samples extracted within holding times and analyzed within 40 days of extracting?	Analysis within 40 days of extraction	**Yes**		**Yes**		
e. Was there a acetonitrile:H2O injection preformed prior to sample analysis?		**Yes**		**Yes**		
f. If any analytes were detected in the soil grinding blanks, were the associated samples B-flagged?	< 1/2 RL	**Yes**		**Yes**		
g. Was the batch soil triplicate RSD within acceptance criteria?	<20%	**Yes**		**Yes**		
9. RECORDS AND REPORTING						
a. Are Run, Prep Batch and Extraction sheets, Summary sheets, Sequence file, initial and rerun raw and process data present in the PDF file?		**Yes**		**Yes**		
b. Are all chromatograms dated and initialed?		**Yes**		**Yes**		
c. Are reported results whose amounts exceeded the acceptance criteria flagged with an appropriate qualifier and, if needed, a NCR completed?		**Yes**		**Yes**		
d. Do all values, dilution factors and qualifiers listed on the raw reports match the LIMS data?		**Yes**		**Yes**		
e. Is the ICAL method referenced on the Raw Data?		**Yes**		**Yes**		

Additional Comments:

The nitroguanidine (NQ) peak shapes in the client samples on the primary column analysis (sequence 121610NQ-primary) were irregular. They appeared to have something co-eluting with them, but splitting the contaminant from the NQ peak was not a good option. The NQ peaks on the confirmation column analysis had the correct shape and did not appear to have any co-eluting contamination issues. Therefore, all NQ data was reported from the confirmation column analysis on sequence 121610NQic-confirm.

Also, because of the contamination issues with NQ on the primary column, in most samples, the NQ result on the primary analysis was greater than 40% different than the NQ result on the confirmation analysis. When this happened, NQ was qualified with a "P" flag and both the primary and confirmation values were listed in a separate table that will accompany the data package.

Summary Report

Instrument ID: HPLC 2 (Offline)
Data Path: C:\Instarch\Sequence\HPLC 2\8330A_B\120710expic-primary.seq
User ID: red
Printed Date: Dec 07, 2010 11:18:06

Run Number	Sample ID	Data Filename	Method Filename	Analysis Date	Data Description
1	ACN:0.1%formic acid in H2...	001.dat	120710expic-primary....	Dec 07, 2010 11:02:04	
2	8330 Pt 1 EXP 4112	002.dat	120710expic-primary....	Dec 07, 2010 11:25:17	
3	8330 Pt 2 EXP 4113	003.dat	120710expic-primary....	Dec 07, 2010 11:48:29	
4	8330 Pt 3 EXP 4114	004.dat	120710expic-primary....	Dec 07, 2010 12:11:41	
5	8330 Pt 4 EXP 4115	005.dat	120710expic-primary....	Dec 07, 2010 12:34:51	
6	8330 Pt 5 EXP 4116	006.dat	120710expic-primary....	Dec 07, 2010 12:58:03	
7	8330 Pt 6 EXP 4117	007.dat	120710expic-primary....	Dec 07, 2010 13:21:13	
8	8330 Pt 7 EXP 4118	008.dat	120710expic-primary....	Dec 07, 2010 13:44:22	Reason #3 applies to data...
9	8330 ICV EXP 4119	009.dat	120710expic-primary....	Dec 07, 2010 14:24:49	
10	8330 CCV EXP 4115	010.dat	120710expic-primary....	Dec 07, 2010 14:49:27	
11	8330 MRL EXP 4113	011.dat	120710expic-primary....	Dec 07, 2010 15:12:39	Reason #3 applies to data...
12	8330 MDL EXP 4112	012.dat	120710expic-primary....	Dec 07, 2010 15:35:51	
13	72142,875969,,mbs	013.dat	120710expic-primary....	Dec 07, 2010 15:59:02	
14	72142,875970,,lcss	014.dat	120710expic-primary....	Dec 07, 2010 16:22:14	
15	72142,873646,	015.dat	120710expic-primary....	Dec 07, 2010 16:45:24	
16	72142,875972,,mss	016.dat	120710expic-primary....	Dec 07, 2010 17:08:36	
17	72142,875973,,msds	017.dat	120710expic-primary....	Dec 07, 2010 17:31:48	
18	72142,873647,	018.dat	120710expic-primary....	Dec 07, 2010 17:55:02	
19	72142,873648,	019.dat	120710expic-primary....	Dec 07, 2010 18:18:15	
20	72142,873649,	020.dat	120710expic-primary....	Dec 07, 2010 18:41:28	Reason #3 applies to data...
21	72142,873650,	021.dat	120710expic-primary....	Dec 07, 2010 19:04:39	
22	72142,873651,	022.dat	120710expic-primary....	Dec 07, 2010 19:27:52	
23	8330 MRL EXP 4113	023.dat	120710expic-primary....	Dec 07, 2010 19:51:02	Reason #3 applies to data...
24	8330 MDL EXP 4112	024.dat	120710expic-primary....	Dec 07, 2010 20:14:14	Reason #3 applies to data...
25	8330 CCV EXP 4115	025.dat	120710expic-primary....	Dec 07, 2010 20:37:25	Reason #3 applies to data...
26	72142,873652,	026.dat	120710expic-primary....	Dec 07, 2010 21:00:36	
27	72142,873653,	027.dat	120710expic-primary....	Dec 07, 2010 21:23:46	
28	72142,873654,	028.dat	120710expic-primary....	Dec 07, 2010 21:47:01	
29	72142,873655,	029.dat	120710expic-primary....	Dec 07, 2010 22:10:14	
30	72142,873656,	030.dat	120710expic-primary....	Dec 07, 2010 22:33:27	
31	72142,873657,	031.dat	120710expic-primary....	Dec 07, 2010 22:56:38	
32	72142,873658,	032.dat	120710expic-primary....	Dec 07, 2010 23:19:50	
33	72142,873659,	033.dat	120710expic-primary....	Dec 07, 2010 23:43:00	
34	8330 MRL EXP 4113	034.dat	120710expic-primary....	Dec 08, 2010 00:06:11	An auto-injector error occ...
35	8330 MDL EXP 4112	035.dat	120710expic-primary....	Dec 08, 2010 07:30:29	Reason #3 applies to data...
36	8330 CCV EXP 4115	036.dat	120710expic-primary....	Dec 08, 2010 08:31:49	
37	72142 873649 1:100	037.dat	120710expic-primary....	Dec 08, 2010 08:56:09	
38	8330 MRL EXP 4113	038.dat	120710expic-primary....	Dec 08, 2010 09:19:23	
39	8330 MDL EXP 4112	039.dat	120710expic-primary....	Dec 08, 2010 09:42:36	Reason #3 applies to data...
40	8330 CCV EXP 4115	040.dat	120710expic-primary....	Dec 08, 2010 10:05:47	

Summary Report

Instrument ID: HPLC 2 (Offline)
Data Path: C:\Instarch\Sequence\HPLC 2\8330A_B\121310exp-primary.seq
User ID: red
Printed Date: Dec 14, 2010 09:27:37

Run Number	Sample ID	Data Filename	Method Filename	Analysis Date	Data Description
1	1:1 ACN:0.1%formic acid in...	001.dat	121310exp-primary.met	Dec 14, 2010 09:11:35	
2	8330 CCV EXP 4128	002.dat	121310exp-primary.met	Dec 14, 2010 09:34:48	
3	72413,875951,,mbs	003.dat	121310exp-primary.met	Dec 14, 2010 09:58:00	
4	72413,875952,,lcss	004.dat	121310exp-primary.met	Dec 14, 2010 10:21:12	
5	72413,870201,	005.dat	121310exp-primary.met	Dec 14, 2010 10:44:23	
6	72413,875953,,mss	006.dat	121310exp-primary.met	Dec 14, 2010 11:07:34	
7	72413,875954,,msds	007.dat	121310exp-primary.met	Dec 14, 2010 11:30:45	
8	870201 dup	008.dat	121310exp-primary.met	Dec 14, 2010 11:53:56	
9	870201 trip	009.dat	121310exp-primary.met	Dec 14, 2010 12:17:08	
10	72413,870203,	010.dat	121310exp-primary.met	Dec 14, 2010 12:40:23	
11	72413,871184,	011.dat	121310exp-primary.met	Dec 14, 2010 13:03:36	
12	72413,871186,	012.dat	121310exp-primary.met	Dec 14, 2010 13:26:47	
13	8330 CCV EXP 4128	013.dat	121310exp-primary.met	Dec 14, 2010 13:49:59	
14	72413,871197,	014.dat	121310exp-primary.met	Dec 14, 2010 14:13:11	
15	72413,871198,	015.dat	121310exp-primary.met	Dec 14, 2010 14:36:22	
16	rinse	016.dat	121310exp-primary.met	Dec 14, 2010 14:59:33	
17	72415,877974,,mbs	017.dat	121310exp-primary.met	Dec 14, 2010 15:22:43	
18	72415,877975,,lcss	018.dat	121310exp-primary.met	Dec 14, 2010 15:45:55	
19	72415,870189,	019.dat	121310exp-primary.met	Dec 14, 2010 17:27:00	
20	72415,877976,,mss	020.dat	121310exp-primary.met	Dec 14, 2010 17:50:14	
21	72415,877977,,msds	021.dat	121310exp-primary.met	Dec 14, 2010 18:13:27	
22	870189 dup	022.dat	121310exp-primary.met	Dec 14, 2010 18:36:39	
23	870189 trip	023.dat	121310exp-primary.met	Dec 14, 2010 18:59:50	
24	72415,870194,	024.dat	121310exp-primary.met	Dec 14, 2010 19:23:03	
25	8330 CCV EXP 4128	025.dat	121310exp-primary.met	Dec 14, 2010 19:46:14	
26	72415,870195,	026.dat	121310exp-primary.met	Dec 14, 2010 20:09:24	
27	72415,870212,	027.dat	121310exp-primary.met	Dec 14, 2010 20:32:35	
28	8330 CCV EXP 4128	028.dat	121310exp-primary.met	Dec 14, 2010 20:55:45	Reason #3 applies to data...

Summary Report

Instrument ID: **HPLC 2 (Offline)**
Data Path: **C:\Instarch\Sequence\HPLC 2\NQ\121510NQic-primary.seq**
User ID: **red**
Printed Date: **Dec 15, 2010 15:00:51**

Run Number	Sample ID	Data Filename	Method Filename	Analysis Date	Data Description
1	MeOH:H2O 1:1	001.dat	121510NQic-primary....	Dec 15, 2010 14:36:32	
2	NQ pt. 1 EXP 4131	002.dat	121510NQic-primary....	Dec 15, 2010 14:44:21	
3	NQ pt. 2 EXP 4132	003.dat	121510NQic-primary....	Dec 15, 2010 14:52:07	
4	NQ pt. 3 EXP 4133	004.dat	121510NQic-primary....	Dec 15, 2010 14:59:55	
5	NQ pt. 4 EXP 4134	005.dat	121510NQic-primary....	Dec 15, 2010 15:07:42	
6	NQ pt. 5 EXP 4135	006.dat	121510NQic-primary....	Dec 15, 2010 15:15:31	
7	NQ pt. 6 EXP 4136	007.dat	121510NQic-primary....	Dec 15, 2010 15:23:17	
8	NQ pt. 7 EXP 4137	008.dat	121510NQic-primary....	Dec 15, 2010 15:31:05	
9	NQ ICV EXP 4138	009.dat	121510NQic-primary....	Dec 15, 2010 15:38:53	

Summary Report

Instrument ID: HPLC 2 (Offline)
Data Path: C:\Instarch\Sequence\HPLC 2\NQ\121610NQ-primary.seq
User ID: red
Printed Date: Dec 16, 2010 08:41:32

Run Number	Sample ID	Data Filename	Method Filename	Analysis Date	Data Description
1	MeOH:H2O 1:1	001.dat	121610NQ-primary.met	Dec 16, 2010 08:36:02	
2	NQ CCV EXP 4134	002.dat	121610NQ-primary.met	Dec 16, 2010 08:43:52	
3	72412,875959,,mbs	003.dat	121610NQ-primary.met	Dec 16, 2010 08:51:41	
4	72412,875960,,lcss	004.dat	121610NQ-primary.met	Dec 16, 2010 09:33:53	
5	72412,870201,	005.dat	121610NQ-primary.met	Dec 16, 2010 09:41:40	Reasons #3 and #4 apply ...
6	72412,875962,,mss	006.dat	121610NQ-primary.met	Dec 16, 2010 09:49:28	Reasons #3 and #4 apply ...
7	72412,875963,,msds	007.dat	121610NQ-primary.met	Dec 16, 2010 09:57:15	Reasons #3 and #4 apply ...
8	870201 dup.	008.dat	121610NQ-primary.met	Dec 16, 2010 10:05:02	Reasons #3 and #4 apply ...
9	870201 trip.	009.dat	121610NQ-primary.met	Dec 16, 2010 10:12:48	Reasons #3 and #4 apply ...
10	72412,870203,	010.dat	121610NQ-primary.met	Dec 16, 2010 10:20:36	Reasons #3 and #4 apply ...
11	72412,871184,	011.dat	121610NQ-primary.met	Dec 16, 2010 10:28:23	
12	72412,871186,	012.dat	121610NQ-primary.met	Dec 16, 2010 10:50:22	
13	NQ CCV EXP 4134	013.dat	121610NQ-primary.met	Dec 16, 2010 10:58:11	
14	72412,871197,	014.dat	121610NQ-primary.met	Dec 16, 2010 11:05:59	
15	72412,871198,	015.dat	121610NQ-primary.met	Dec 16, 2010 11:13:47	
16	72414,877978,,mbs	016.dat	121610NQ-primary.met	Dec 16, 2010 11:21:33	
17	72414,877979,,lcss	017.dat	121610NQ-primary.met	Dec 16, 2010 11:29:21	
18	72414,870189,	018.dat	121610NQ-primary.met	Dec 16, 2010 11:37:08	
19	72414,877981,,mss	019.dat	121610NQ-primary.met	Dec 16, 2010 11:44:55	
20	72414,877982,,msds	020.dat	121610NQ-primary.met	Dec 16, 2010 11:52:41	
21	870189 dup	021.dat	121610NQ-primary.met	Dec 16, 2010 12:00:28	
22	870189 trip	022.dat	121610NQ-primary.met	Dec 16, 2010 12:08:19	Reason #4 applies to data...
23	72414,870194,	023.dat	121610NQ-primary.met	Dec 16, 2010 12:16:07	Reasons #3 and #4 apply ...
24	NQ CCV EXP 4134	024.dat	121610NQ-primary.met	Dec 16, 2010 12:23:56	
25	72414,870195,	025.dat	121610NQ-primary.met	Dec 16, 2010 12:31:44	Reasons #3 and #4 apply ...
26	72414,870212,	026.dat	121610NQ-primary.met	Dec 16, 2010 12:39:30	Reason #4 applies to data...
27	72412,871198,	027.dat	121610NQ-primary.met	Dec 16, 2010 12:47:18	Reasons #3 and #4 apply ...
28	NQ CCV EXP 4134	028.dat	121610NQ-primary.met	Dec 16, 2010 13:20:27	

Summary Report

Instrument ID: HPLC 2 (Offline)
Data Path: C:\Instarch\Sequence\HPLC 2\NQ\121610NQic-confirm.seq
User ID: red
Printed Date: Dec 16, 2010 20:01:08

Run Number	Sample ID	Data Filename	Method Filename	Analysis Date	Data Description
1	MeOH:H2O 1:1	001.dat	121610NQic-confirm....	Dec 16, 2010 19:29:18	
2	NQ pt. 1 EXP 4139	002.dat	121610NQic-confirm....	Dec 16, 2010 19:43:37	
3	NQ pt. 2 EXP 4140	003.dat	121610NQic-confirm....	Dec 16, 2010 19:57:54	
4	NQ pt. 3 EXP 4141	004.dat	121610NQic-confirm....	Dec 16, 2010 20:12:11	
5	NQ pt. 4 EXP 4142	005.dat	121610NQic-confirm....	Dec 16, 2010 20:26:29	
6	NQ pt. 5 EXP 4143	006.dat	121610NQic-confirm....	Dec 16, 2010 20:40:46	
7	NQ pt. 6 EXP 4144	007.dat	121610NQic-confirm....	Dec 16, 2010 20:55:04	
8	NQ pt. 7 EXP 4145	008.dat	121610NQic-confirm....	Dec 16, 2010 21:09:21	
9	NQ ICV EXP 4146	009.dat	121610NQic-confirm....	Dec 16, 2010 21:23:39	
10	NQ CCV EXP 4142	010.dat	121610NQic-confirm....	Dec 16, 2010 21:38:00	
11	72412,875959,,mbs	011.dat	121610NQic-confirm....	Dec 16, 2010 21:52:19	
12	72412,875960,,lcss	012.dat	121610NQic-confirm....	Dec 16, 2010 22:06:37	
13	72412,870201,	013.dat	121610NQic-confirm....	Dec 16, 2010 22:20:54	
14	72412,875962,,mss	014.dat	121610NQic-confirm....	Dec 16, 2010 22:35:12	
15	72412,875963,,msds	015.dat	121610NQic-confirm....	Dec 16, 2010 22:49:29	
16	870201 dup.	016.dat	121610NQic-confirm....	Dec 16, 2010 23:03:45	
17	870201 trip.	017.dat	121610NQic-confirm....	Dec 16, 2010 23:18:03	
18	72412,870203,	018.dat	121610NQic-confirm....	Dec 16, 2010 23:32:19	
19	72412,871184,	019.dat	121610NQic-confirm....	Dec 16, 2010 23:46:36	
20	72412,871186,	020.dat	121610NQic-confirm....	Dec 17, 2010 00:00:57	Reason #3 applies to data...
21	NQ CCV EXP 4142	021.dat	121610NQic-confirm....	Dec 17, 2010 00:15:16	
22	72412,871197,	022.dat	121610NQic-confirm....	Dec 17, 2010 00:29:34	Reason #3 applies to data...
23	72412,871198,	023.dat	121610NQic-confirm....	Dec 17, 2010 00:43:51	
24	72414,877978,,mbs	024.dat	121610NQic-confirm....	Dec 17, 2010 00:58:09	
25	72414,877979,,lcss	025.dat	121610NQic-confirm....	Dec 17, 2010 01:12:25	Reason #3 applies to data...
26	72414,870189,	026.dat	121610NQic-confirm....	Dec 17, 2010 01:26:43	
27	72414,877981,,mss	027.dat	121610NQic-confirm....	Dec 17, 2010 01:41:00	Reason #3 applies to data...
28	72414,877982,,msds	028.dat	121610NQic-confirm....	Dec 17, 2010 01:55:16	Reason #3 applies to data...
29	870189 dup	029.dat	121610NQic-confirm....	Dec 17, 2010 02:09:34	
30	870189 trip	030.dat	121610NQic-confirm....	Dec 17, 2010 02:23:54	
31	72414,870194,	031.dat	121610NQic-confirm....	Dec 17, 2010 02:38:13	
32	NQ CCV EXP 4142	032.dat	121610NQic-confirm....	Dec 17, 2010 02:52:30	
33	72414,870195,	033.dat	121610NQic-confirm....	Dec 17, 2010 03:06:48	
34	72414,870212,	034.dat	121610NQic-confirm....	Dec 17, 2010 03:21:05	
35	NQ CCV EXP 4142	035.dat	121610NQic-confirm....	Dec 17, 2010 03:35:23	

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
EXP 3868	NQ Spike (source 1)	Millipore H2O	5-Aug-10 red 5-Feb-11	S2222A 1000 ug/mL S2169A 1000 ug/mL	0.100 0.100	10.00 10.00	10.00 ug/ml 10.00 ug/ml
EXP 3869	NQ intermediate Source 2	Millipore H2O	5-Aug-10 RED 5-Feb-11	S2223A 100 ug/mL S2169A 1000 ug/mL	1.000 0.100	10.00 10.00	10.00 ug/ml 10.00 ug/ml
EXP 3870	NQ soil LCS spike	MeOH lot 101437	5-Aug-10 red 5-Sep-10	S2222A 1000 ug/mL S2169A 1000 ug/mL	0.500 0.500	25.00 25.00	20.00 ug/ml 20.00 ug/mL
EXP 3871	NQ soil LCS	clean soil matrix	5-Aug-10 RED 5-Sep-10	EXP 3870 20 ug/mL	25.000	250 g	2.00 mg/kg

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
EXP 3872	NQ Linearity PT 1	MeOH:H2O (1:1) lot 095586	5-Aug-10 RED 6-Aug-10	EXP 3868 10 ug/mL	~~0.002~~ 0.004	1.0	~~0.02~~ 0.04 ug/ml
EXP 3873	NQ Linearity PT 2			EXP 3868 10 ug/mL	~~0.010~~ 0.020	1.0	~~0.10~~ 0.08 ug/ml
EXP 3874	NQ Linearity PT 3			EXP 3868 10 ug/mL	0.020	1.0	0.20 ug/ml
EXP 3875	NQ Linearity PT 4 (CCV)			EXP 3868 10 ug/mL	0.250	5.0	0.50 ug/ml
EXP 3876	NQ Linearity PT 5			EXP 3868 10 ug/mL	0.100	1.0	1.00 ug/ml
EXP 3877	NQ Linearity PT 6			EXP 3868 10 ug/mL	0.200	1.0	2.00 ug/ml
EXP 3878	NQ Linearity PT 7			EXP 3868 10 ug/mL	0.250	1.0	2.50 ug/ml
EXP 3879	NQ ICV (2nd Source)	MeOH:H2O (1:1)	05-Aug-10 RED 06-Aug-10	EXP 3869 10 ug/mL	0.050	1.0	0.50 ug/ml

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
EXP 3880	8330B LCS Spike	MeCl2 lot J24J01	5-Aug-10 red 5-Sep-10	S2092A 1000 ug/mL S2112B 1000 ug/mL S2169A 1000 ug/mL S2134B 1000 ug/mL S2156A 1000 ug/mL	0.500 0.500 0.500 1.000 1.000	25.00 25.00 25.00 25.00 25.00	20.00 ug/ml 20.00 ug/ml 20.00 ug/ml 40.00 ug/ml 40.00 ug/ml
EXP 3881	8330B Soil LCS/IDC	clean soil matrix	5-Aug-10 red 5-Sep-10	EXP 3879 20 ug/mL 20 ug/mL 20 ug/mL 40 ug/mL 40 ug/mL	25 mL Spike Volume	250 g soil mass	2.00 mg/kg 2.00 mg/kg 2.00 mg/kg 4.00 mg/kg 4.00 mg/kg

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
EXP 3882	8330 Spike Source 1	ACN lot lot H21S02	5-Aug-10 red 14-Oct-10	S2092A 1000 ug/mL S2112B 1000 ug/mL S2157B 1000 ug/mL S2156B 1000 ug/mL S2169A 1000 ug/mL	0.100 0.100 0.400 0.400 0.100	10.00 10.00 10.00 10.00 10.00	10.00 ug/ml 10.00 ug/ml 40.00 ug/ml 40.00 ug/ml 10.00 ug/ml
EXP 3883	8330 Spike Source 2	ACN lot lot H21S02	5-Aug-10 red 2-Nov-10	S2191B 100 ug/mL S2192A 100 ug/mL S2210A 100 ug/mL S2190A 1000 ug/mL S2036 1000 ug/mL S2169A 1000 ug/mL	1.000 1.000 1.000 0.400 0.400 0.100	10.00 10.00 10.00 10.00 10.00 10.00	10.00 ug/ml 10.00 ug/ml 10.00 ug/ml 40.00 ug/ml 40.00 ug/ml 10.00 ug/ml

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Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID/analyte group & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
EXP 4045	8330 Pt 1 (MDL)	1:1 ACN:0.1% formic acid in water ACN lot H21S02	29-Oct-10 red 30-Oct-10	EXP 4010/8330mix 10 ug/mL	0.030	5.00	0.06 ug/ml
				EXP 4010/NG-PETN 40 ug/mL	0.030	5.00	0.24 ug/ml
EXP 4046	8330 Pt 2 (MRL)			EXP 4010/8330mix 10 ug/mL	0.050	5.00	0.10 ug/ml
				EXP 4010/NG-PETN 40 ug/mL	0.050	5.00	0.40 ug/ml
EXP 4047	8330 Pt 4 (CCV)			EXP 4010/8330mix 10 ug/mL	0.250	5.00	0.50 ug/ml
				EXP 4010/NG-PETN 40 ug/mL	0.250	5.00	2.00 ug/ml

Red 10/29/10

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID/analyte group & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
EXP 4048	8330 Pt 1 (MDL)	1:1 ACN:0.1% formic acid in water ACN lot H21S02	30-Oct-10 red 31-Oct-10	EXP 4010/8330mix 10 ug/mL	0.030	5.00	0.06 ug/ml
				EXP 4010/NG-PETN 40 ug/mL	0.030	5.00	0.24 ug/ml
EXP 4049	8330 Pt 2 (MRL)			EXP 4010/8330mix 10 ug/mL	0.050	5.00	0.10 ug/ml
				EXP 4010/NG-PETN 40 ug/mL	0.050	5.00	0.40 ug/ml
EXP 4050	8330 Pt 4 (CCV)			EXP 4010/8330mix 10 ug/mL	0.250	5.00	0.50 ug/ml
				EXP 4010/NG-PETN 40 ug/mL	0.250	5.00	2.00 ug/ml

Red 10/30/10

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
EXP 4051	8330 Surrogate	ACN lot H21S02	2-Nov-10 red 2-May-11	S2255B 1000 ug/mL	1.000	100.00	10.00 ug/ml

Red 11/2/10

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID/analyte group & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
EXP 4052	8330 Pt 1 (MDL)	1:1 ACN:0.1% formic acid in water ACN lot H21S02	4-Nov-10 red 5-Nov-10	EXP 4010/8330mix 10 ug/mL	0.030	5.00	0.06 ug/ml
				EXP 4010/NG-PETN 40 ug/mL	0.030	5.00	0.24 ug/ml
EXP 4053	8330 Pt 2 (MRL)			EXP 4010/8330mix 10 ug/mL	0.050	5.00	0.10 ug/ml
				EXP 4010/NG-PETN 40 ug/mL	0.050	5.00	0.40 ug/ml
EXP 4054	8330 Pt 4 (CCV)			EXP 4010/8330mix 10 ug/mL	0.250	5.00	0.50 ug/ml
				EXP 4010/NG-PETN 40 ug/mL	0.250	5.00	2.00 ug/ml

Red 11/4/2010

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
EXP 4055	NQ CCV	MeOH:H2O (1:1)	9-Nov-10 RED 10-Nov-10	EXP 3943 10 ug/mL	0.250	5.00	0.50 ug/ml

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID/analyte group & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
EXP 4056	8330 Pt 1 (MDL)	1:1 ACN:0.1% formic acid in water ACN lot H21S02	9-Nov-10 red 10-Nov-10	EXP 4010/8330mix 10 ug/mL	0.030	5.00	0.06 ug/ml
				EXP 4010/NG-PETN 40 ug/mL	0.030	5.00	0.24 ug/ml
EXP 4057	8330 Pt 2 (MRL)			EXP 4010/8330mix 10 ug/mL	0.050	5.00	0.10 ug/ml
				EXP 4010/NG-PETN 40 ug/mL	0.050	5.00	0.40 ug/ml
EXP 4058	8330 Pt 4 (CCV)			EXP 4010/8330mix 10 ug/mL	0.250	5.00	0.50 ug/ml
				EXP 4010/NG-PETN 40 ug/mL	0.250	5.00	2.00 ug/ml

11/9/2010

Exp 4059 NQ spike Source 1: 0.250 mL S2222B @ 1000 ug/mL + 0.250 mL S2255C @ 1000 ug/mL MeCN:H2O; 1:1 to a final volume of 25 mL and final conc. of ~~0.50~~ 10 ug/mL each. Prepared on 11/16/10 by PEW Expires 5/16/11. Red 11/16/10

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Read and Understood By

Red 11/16/10

Signed _____ Date _____ Signed _____ Date _____

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration			Standard Volume (ml)	Final Volume (ml)	Final Concentration	
EXP 4060	8330 Spike	ACN lot	18-Nov-10 red 16-May-11	S2125B	1000	ug/mL	0.100	10.00	10.00	ug/ml
				S2126B	1000	ug/mL	0.100	10.00	10.00	ug/ml
	Source 2			S2210B	100	ug/mL	1.000	10.00	10.00	ug/ml
				S2190A	1000	ug/mL	0.400	10.00	40.00	ug/ml
				S2089A	1000	ug/mL	0.400	10.00	40.00	ug/ml
		lot H21S02		S2255C	1000	ug/mL	0.100	10.00	10.00	ug/ml

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date			STD Parent ID & Concentration			Standard Volume (ml)	Final Volume (ml)	Final Concentration	
EXP 4061	8330B LCS Spike	MeCl2 lot J21S09	18-Nov-10	red	18-Dec-10	S2092C	1000	ug/mL	0.500	25.00	20.00	ug/ml
						S1788B	1000	ug/mL	0.500	25.00	20.00	ug/ml
						S2245C/S2255C	1000	ug/mL	0.500	25.00	20.00	ug/ml
						S2258A/B	1000	ug/mL	1.000	25.00	40.00	ug/ml
						S2260A/B	1000	ug/mL	1.000	25.00	40.00	ug/ml
EXP 4062	8330B Soil LCS	clean soil matrix	18-Nov-10	red	18-Dec-10	EXP 4061	20	ug/mL	25 mL	250 g	2.00	mg/kg
							20	ug/mL	Spike	soil	2.00	mg/kg
							20	ug/mL	Volume	mass	2.00	mg/kg
							40	ug/mL			4.00	mg/kg
							40	ug/mL			4.00	mg/kg

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID/analyte group & Concentration			Standard Volume (ml)	Final Volume (ml)	Final Concentration	
EXP 4063	8330 Pt 1 (MDL)	1:1 ACN:0.1% formic acid in water	18-Nov-10 red 19-Nov-10	EXP 4010/8330mix	10	ug/mL	0.030	5.00	0.06	ug/ml
				EXP 4010/NG-PETN	40	ug/mL	0.030	5.00	0.24	ug/ml
EXP 4064	8330 Pt 2 (MRL)			EXP 4010/8330mix	10	ug/mL	0.050	5.00	0.10	ug/ml
				EXP 4010/NG-PETN	40	ug/mL	0.050	5.00	0.40	ug/ml
EXP 4065	8330 Pt 3			EXP 4010/8330mix	10	ug/mL	0.025	1.00	0.25	ug/ml
				EXP 4010/NG-PETN	40	ug/mL	0.025	1.00	1.00	ug/ml
EXP 4066	8330 Pt 4 (CCV)	ACN lot H21S02		EXP 4010/8330mix	10	ug/mL	0.250	5.00	0.50	ug/ml
				EXP 4010/NG-PETN	40	ug/mL	0.250	5.00	2.00	ug/ml
EXP 4067	8330 Pt 5			EXP 3942/8330mix	10	ug/mL	0.100	1.00	1.00	ug/ml
				EXP 3942/NG-PETN	40	ug/mL	0.100	1.00	4.00	ug/ml
EXP 4068	8330 Pt 6			EXP 3942/8330mix	10	ug/mL	0.200	1.00	2.00	ug/ml
				EXP 3942/NG-PETN	40	ug/mL	0.200	1.00	8.00	ug/ml
EXP 4069	8330 Pt 7			EXP 3942/8330mix	10	ug/mL	0.300	1.00	3.00	ug/ml
				EXP 3942/NG-PETN	40	ug/mL	0.300	1.00	12.00	ug/ml
EXP 4070	8330 ICV (second source)			EXP 3883/8330mix	10	ug/mL	0.050	1.00	0.50	ug/ml
				EXP 3883/NG-PETN	40	ug/mL	0.050	1.00	2.00	ug/ml

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID/analyte group & Concentration			Standard Volume (ml)	Final Volume (ml)	Final Concentration	
EXP 4071	8330 Pt 1 (MDL)	1:1 ACN:0.1% formic acid in water	23-Nov-10 red 24-Nov-10	EXP 4010/8330mix	10	ug/mL	0.030	5.00	0.06	ug/ml
				EXP 4010/NG-PETN	40	ug/mL	0.030	5.00	0.24	ug/ml
EXP 4072	8330 Pt 2 (MRL)			EXP 4010/8330mix	10	ug/mL	0.050	5.00	0.10	ug/ml
				EXP 4010/NG-PETN	40	ug/mL	0.050	5.00	0.40	ug/ml
EXP 4073	8330 Pt 3			EXP 4010/8330mix	10	ug/mL	0.025	1.00	0.25	ug/ml
				EXP 4010/NG-PETN	40	ug/mL	0.025	1.00	1.00	ug/ml
EXP 4074	8330 Pt 4 (CCV)	ACN lot H21S02		EXP 4010/8330mix	10	ug/mL	0.250	5.00	0.50	ug/ml
				EXP 4010/NG-PETN	40	ug/mL	0.250	5.00	2.00	ug/ml
EXP 4075	8330 Pt 5			EXP 4010/8330mix	10	ug/mL	0.100	1.00	1.00	ug/ml
				EXP 4010/NG-PETN	40	ug/mL	0.100	1.00	4.00	ug/ml
EXP 4076	8330 Pt 6			EXP 4010/8330mix	10	ug/mL	0.200	1.00	2.00	ug/ml
				EXP 4010/NG-PETN	40	ug/mL	0.200	1.00	8.00	ug/ml
EXP 4077	8330 Pt 7			EXP 4010/8330mix	10	ug/mL	0.300	1.00	3.00	ug/ml
				EXP 4010/NG-PETN	40	ug/mL	0.300	1.00	12.00	ug/ml
EXP 4078	8330 ICV (second source)			EXP 4060/8330mix	10	ug/mL	0.050	1.00	0.50	ug/ml
				EXP 4060/NG-PETN	40	ug/mL	0.050	1.00	2.00	ug/ml

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EXP 4075 8330 Surrogate 0.500 mL S2255C @ 1000 ug/mL in MeOH to a final volume of 50.0 mL at final conc. of 10 ug/mL. Prepared by RED on 11/23/2010. Expires 5/16/2011.

Reviewed 11/23/2010

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
EXP 4080	8330 Spike	ACN lot H21S02	25-Nov-10 red 16-Apr-11	S2092C 1000 ug/mL S1788B 1000 ug/mL S2258B 1000 ug/mL S2260B 1000 ug/mL S2255C/D 1000 ug/mL	0.250 0.250 1.000 1.000 0.250	25.00 25.00 25.00 25.00 25.00	10.00 ug/ml 10.00 ug/ml 40.00 ug/ml 40.00 ug/ml 10.00 ug/ml

Reviewed 11/25/10

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
EXP 4081	8330 Surrogate	ACN lot H21S02	25-Nov-10 red 25-May-11	S2255D/E 1000 ug/mL	1.000	100.00	10.00 ug/ml

Reviewed 11/25/10

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
EXP 4082	NQ soil LCS spike	ACN lot H21S02	25-Nov-10 red 16-May-11	S2222B 1000 ug/mL S2255E 1000 ug/mL	0.500 0.500	25.00 25.00	20.00 ug/ml 20.00 ug/ml
EXP 4083	NQ soil LCS	clean soil matrix	25-Nov-10 RED 25-Dec-10	EXP 4082 20 ug/mL 20 ug/mL	25.000 25.000	250 g 250 g	2.00 mg/kg 2.00 mg/kg

Reviewed 11/25/10

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID/analyte group & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
EXP 4084	8330 Pt 1 (MDL)	1:1 ACN:0.1% formic acid in water ACN lot H21S02	25-Nov-10 red 26-Nov-10	EXP 4080/8330mix 10 ug/mL EXP 4080/NG-PETN 40 ug/mL	0.060 0.060	10.00 10.00	0.06 ug/ml 0.24 ug/ml
EXP 4085	8330 Pt 2 (MRL)			EXP 4080/8330mix 10 ug/mL EXP 4080/NG-PETN 40 ug/mL	0.100 0.100	10.00 10.00	0.10 ug/ml 0.40 ug/ml
EXP 4086	8330 Pt 4 (CCV)			EXP 4080/8330mix 10 ug/mL EXP 4080/NG-PETN 40 ug/mL	0.500 0.500	10.00 10.00	0.50 ug/ml 2.00 ug/ml

Reviewed 11/25/10

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID/analyte group & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
EXP 4087	8330 Pt 1 (MDL)	1:1 ACN:0.1% formic acid in water ACN lot H21S02	30-Nov-10 red 1-Dec-10	EXP 4080/8330mix 10 ug/mL EXP 4080/NG-PETN 40 ug/mL	0.030 0.030	5.00 5.00	0.06 ug/ml 0.24 ug/ml
EXP 4088	8330 Pt 2 (MRL)			EXP 4080/8330mix 10 ug/mL EXP 4080/NG-PETN 40 ug/mL	0.050 0.050	5.00 5.00	0.10 ug/ml 0.40 ug/ml
EXP 4089	8330 Pt 3			EXP 4080/8330mix 10 ug/mL EXP 4080/NG-PETN 40 ug/mL	0.025 0.025	1.00 1.00	0.25 ug/ml 1.00 ug/ml
EXP 4090	8330 Pt 4 (CCV)			EXP 4080/8330mix 10 ug/mL EXP 4080/NG-PETN 40 ug/mL	0.250 0.250	5.00 5.00	0.50 ug/ml 2.00 ug/ml
EXP 4091	8330 Pt 5			EXP 4080/8330mix 10 ug/mL EXP 4080/NG-PETN 40 ug/mL	0.100 0.100	1.00 1.00	1.00 ug/ml 4.00 ug/ml
EXP 4092	8330 Pt 6			EXP 4080/8330mix 10 ug/mL EXP 4080/NG-PETN 40 ug/mL	0.200 0.200	1.00 1.00	2.00 ug/ml 8.00 ug/ml
EXP 4093	8330 Pt 7			EXP 4080/8330mix 10 ug/mL EXP 4080/NG-PETN 40 ug/mL	0.300 0.300	1.00 1.00	3.00 ug/ml 12.00 ug/ml
EXP 4094	8330 ICV (second source)			EXP 4060/8330mix 10 ug/mL EXP 4060/NG-PETN 40 ug/mL	0.050 0.050	1.00 1.00	0.50 ug/ml 2.00 ug/ml

Reviewed 11/30/10

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Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
EXP 4095	NQ Linearity PT 1	1:1	1-Dec-10 RED 2-Dec-10	EXP 4059 10 ug/mL	0.020	5.0	0.04 ug/ml
EXP 4096	NQ Linearity PT 2	MeOH:H2O		EXP 4059 10 ug/mL	0.040	5.0	0.08 ug/ml
EXP 4097	NQ Linearity PT 3	lot 103149		EXP 4059 10 ug/mL	0.020	1.0	0.20 ug/ml
EXP 4098	NQ Linearity PT 4			EXP 4059 10 ug/mL	0.250	5.0	0.50 ug/ml
EXP 4099	NQ Linearity PT 5			EXP 4059 10 ug/mL	0.100	1.0	1.00 ug/ml
EXP 4100	NQ Linearity PT 6			EXP 4059 10 ug/mL	0.200	1.0	2.00 ug/ml
EXP 4101	NQ Linearity PT 7			EXP 4059 10 ug/mL	0.250	1.0	2.50 ug/ml
EXP 4102	NQ ICV (2nd Source)	MeOH:H2O (1:1)	01-Dec-10 RED 02-Dec-10	EXP 3869 10 ug/mL	0.050	1.0	0.50 ug/ml

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID/analyte group & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
EXP 4103	8330 Pt 1 (MDL)	1:1 ACN:0.1% formic acid in water ACN lot H21S02	2-Dec-10 red 3-Dec-10	EXP 4080/8330mix 10 ug/mL EXP 4080/NG-PETN 40 ug/mL	0.030 0.030	5.00 5.00	0.06 ug/ml 0.24 ug/ml
EXP 4104	8330 Pt 2 (MRL)			EXP 4080/8330mix 10 ug/mL EXP 4080/NG-PETN 40 ug/mL	0.050 0.050	5.00 5.00	0.10 ug/ml 0.40 ug/ml
EXP 4105	8330 Pt 4 (CCV)			EXP 4080/8330mix 10 ug/mL EXP 4080/NG-PETN 40 ug/mL	0.250 0.250	5.00 5.00	0.50 ug/ml 2.00 ug/ml

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID/analyte group & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
EXP 4106	8330 Pt 1 (MDL)	1:1 ACN:0.1% formic acid in water ACN lot H21S02	3-Dec-10 red 4-Dec-10	EXP 4080/8330mix 10 ug/mL EXP 4080/NG-PETN 40 ug/mL	0.030 0.030	5.00 5.00	0.06 ug/ml 0.24 ug/ml
EXP 4107	8330 Pt 2 (MRL)			EXP 4080/8330mix 10 ug/mL EXP 4080/NG-PETN 40 ug/mL	0.050 0.050	5.00 5.00	0.10 ug/ml 0.40 ug/ml
EXP 4108	8330 Pt 4 (CCV)			EXP 4080/8330mix 10 ug/mL EXP 4080/NG-PETN 40 ug/mL	0.250 0.250	5.00 5.00	0.50 ug/ml 2.00 ug/ml

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID/analyte group & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
EXP 4109	8330 Pt 1 (MDL)	1:1 ACN:0.1% formic acid in water ACN lot H21S02	6-Dec-10 red 7-Dec-10	EXP 4080/8330mix 10 ug/mL EXP 4080/NG-PETN 40 ug/mL	0.030 0.030	5.00 5.00	0.06 ug/ml 0.24 ug/ml
EXP 4110	8330 Pt 2 (MRL)			EXP 4080/8330mix 10 ug/mL EXP 4080/NG-PETN 40 ug/mL	0.050 0.050	5.00 5.00	0.10 ug/ml 0.40 ug/ml
EXP 4111	8330 Pt 4 (CCV)			EXP 4080/8330mix 10 ug/mL EXP 4080/NG-PETN 40 ug/mL	0.250 0.250	5.00 5.00	0.50 ug/ml 2.00 ug/ml

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID/analyte group & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
EXP 4112	8330 Pt 1 (MDL)	1:1 ACN:0.1% formic acid in water ACN lot H21S02	7-Dec-10 red 8-Dec-10	EXP 4080/8330mix 10 ug/mL EXP 4080/NG-PETN 40 ug/mL	0.030 0.030	5.00 5.00	0.06 ug/ml 0.24 ug/ml
EXP 4113	8330 Pt 2 (MRL)			EXP 4080/8330mix 10 ug/mL EXP 4080/NG-PETN 40 ug/mL	0.050 0.050	5.00 5.00	0.10 ug/ml 0.40 ug/ml
EXP 4114	8330 Pt 3			EXP 4080/8330mix 10 ug/mL EXP 4080/NG-PETN 40 ug/mL	0.025 0.025	1.00 1.00	0.25 ug/ml 1.00 ug/ml
EXP 4115	8330 Pt 4 (CCV)			EXP 4080/8330mix 10 ug/mL EXP 4080/NG-PETN 40 ug/mL	0.250 0.250	5.00 5.00	0.50 ug/ml 2.00 ug/ml
EXP 4116	8330 Pt 5			EXP 4080/8330mix 10 ug/mL EXP 4080/NG-PETN 40 ug/mL	0.100 0.100	1.00 1.00	1.00 ug/ml 4.00 ug/ml
EXP 4117	8330 Pt 6			EXP 4080/8330mix 10 ug/mL EXP 4080/NG-PETN 40 ug/mL	0.200 0.200	1.00 1.00	2.00 ug/ml 8.00 ug/ml
EXP 4118	8330 Pt 7			EXP 4080/8330mix 10 ug/mL EXP 4080/NG-PETN 40 ug/mL	0.300 0.300	1.00 1.00	3.00 ug/ml 12.00 ug/ml
EXP 4119	8330 ICV (second source)			EXP 4060/8330mix 10 ug/mL EXP 4060/NG-PETN 40 ug/mL	0.050 0.050	1.00 1.00	0.50 ug/ml 2.00 ug/ml

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Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID/analyte group & Concentration			Standard Volume (ml)	Final Volume (ml)	Final Concentration	
EXP 4120	8330 Pt 1 (MDL)	1:1 ACN:0.1% formic acid in water	9-Dec-10 red 10-Dec-10	EXP 4080/8330mix	10	ug/mL	0.030	5.00	0.06	ug/ml
				EXP 4080/NG-PETN	40	ug/mL	0.030	5.00	0.24	ug/ml
EXP 4121	8330 Pt 2 (MRL)			EXP 4080/8330mix	10	ug/mL	0.050	5.00	0.10	ug/ml
				EXP 4080/NG-PETN	40	ug/mL	0.050	5.00	0.40	ug/ml
EXP 4122	8330 Pt 3			EXP 4080/8330mix	10	ug/mL	0.025	1.00	0.25	ug/ml
				EXP 4080/NG-PETN	40	ug/mL	0.025	1.00	1.00	ug/ml
EXP 4123	8330 Pt 4 (CCV)	ACN lot H21S02		EXP 4080/8330mix	10	ug/mL	0.250	5.00	0.50	ug/ml
				EXP 4080/NG-PETN	40	ug/mL	0.250	5.00	2.00	ug/ml
EXP 4124	8330 Pt 5			EXP 4080/8330mix	10	ug/mL	0.100	1.00	1.00	ug/ml
				EXP 4080/NG-PETN	40	ug/mL	0.100	1.00	4.00	ug/ml
EXP 4125	8330 Pt 6			EXP 4080/8330mix	10	ug/mL	0.200	1.00	2.00	ug/ml
				EXP 4080/NG-PETN	40	ug/mL	0.200	1.00	8.00	ug/ml
EXP 4126	8330 Pt 7			EXP 4080/8330mix	10	ug/mL	0.300	1.00	3.00	ug/ml
				EXP 4080/NG-PETN	40	ug/mL	0.300	1.00	12.00	ug/ml
EXP 4127	8330 ICV (second source)			EXP 4060/8330mix	10	ug/mL	0.050	1.00	0.50	ug/ml
				EXP 4060/NG-PETN	40	ug/mL	0.050	1.00	2.00	ug/ml

[signature] 12/9/10

EXP 4128 8330 CCV 0.250 mL exp4080 into 5mL total volume 1:1 ACN : 0.1% formic acid in H_2O. Final concentration is ~~0.50/2.00~~ 1.00/4.00 ug/mL. Prepared on 12/13/2010 by RED. Expires 12/14/2010.

RED 12/13/2010

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration			Standard Volume (ml)	Final Volume (ml)	Final Concentration	
EXP 4129	8330 Spike	ACN lot H21S02	14-Dec-10 red 16-Apr-11	S2092C/S2021C	1000	ug/mL	0.250	25.00	10.00	ug/ml
				S1788B	1000	ug/mL	0.250	25.00	10.00	ug/ml
				S2258C	1000	ug/mL	1.000	25.00	40.00	ug/ml
				S2260c	1000	ug/mL	1.000	25.00	40.00	ug/ml
				S2255E	1000	ug/mL	0.250	25.00	10.00	ug/ml
Standard Number	**Standard Description**	**Solvent/Lot**	**Prep Date/Analyst/Exp. Date**	**STD Parent ID & Concentration**			**Standard Volume (ml)**	**Final Volume (ml)**	**Final Concentration**	
EXP 4130	8330 Surrogate	ACN lot H21S02	14-Dec-10 red 16-May-11	S2255E/S2293A	1000	ug/mL	1.000	100.00	10.00	ug/ml

[signature] 12/14/2010

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration			Standard Volume (ml)	Final Volume (ml)	Final Concentration	
EXP 4131	NQ Linearity PT 1	1:1 MeOH:H2O lot 103149	15-Dec-10 RED 16-Dec-10	EXP 4059	10	ug/mL	0.004	1.0	0.04	ug/ml
EXP 4132	NQ Linearity PT 2			EXP 4059	10	ug/mL	0.008	1.0	0.08	ug/ml
EXP 4133	NQ Linearity PT 3			EXP 4059	10	ug/mL	0.020	1.0	0.20	ug/ml
EXP 4134	NQ Linearity PT 4			EXP 4059	10	ug/mL	0.500	10.0	0.50	ug/ml
EXP 4135	NQ Linearity PT 5			EXP 4059	10	ug/mL	0.100	1.0	1.00	ug/ml
EXP 4136	NQ Linearity PT 6			EXP 4059	10	ug/mL	0.200	1.0	2.00	ug/ml
EXP 4137	NQ Linearity PT 7			EXP 4059	10	ug/mL	0.250	1.0	2.50	ug/ml
EXP 4138	NQ ICV (2nd Source)	MeOH:H2O (1:1)	15-Dec-10 RED 16-Dec-10	EXP 3869	10	ug/mL	0.050	1.0	0.50	ug/ml

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RED 12-15-2010

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Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
EXP 4139	NQ Linearity PT 1	1:1	16-Dec-10 RED 17-Dec-10	EXP 4059 10 ug/mL	0.004	1.0	0.04 ug/ml
EXP 4140	NQ Linearity PT 2	MeOH:H2O		EXP 4059 10 ug/mL	0.008	1.0	0.08 ug/ml
EXP 4141	NQ Linearity PT 3	lot 103149		EXP 4059 10 ug/mL	0.020	1.0	0.20 ug/ml
EXP 4142	NQ Linearity PT 4			EXP 4059 10 ug/mL	0.250	5.0	0.50 ug/ml
EXP 4143	NQ Linearity PT 5			EXP 4059 10 ug/mL	0.100	1.0	1.00 ug/ml
EXP 4144	NQ Linearity PT 6			EXP 4059 10 ug/mL	0.200	1.0	2.00 ug/ml
EXP 4145	NQ Linearity PT 7			EXP 4059 10 ug/mL	0.250	1.0	2.50 ug/ml
EXP 4146	NQ ICV (2nd Source)	MeOH:H2O (1:1)	16-Dec-10 RED 17-Dec-10	EXP 3869 10 ug/mL	0.050	1.0	0.50 ug/ml

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
EXP 4147	NQ CCV	MeOH:H2O (1:1)	18-Dec-10 RED 19-Dec-10	EXP 4059 10 ug/mL	0.250	5.00	0.50 ug/ml

Exp 4148 8330 CCV 0.250 mL Exp 4129 @ 10/40 ug/mL into 1:1 ACN:0.1% formic acid in H2O to a final volume of 5.00 mL at final concentration of 0.5/20 ug/mL Prepared on 12/19/2010 by Rcap Expires 12/20/2010.

Exp 4149 8330 CCV 0.250 mL Exp 4129 @ 10/40 ug/mL into 1:1 ACN:0.1% formic acid in H2O to a final volume of 5.00 mL at final conc. of 0.5/20 ug/mL Prepared on 12/20/2010 by RCap. Expires 12/21/2010.

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
EXP 4150	8330 Spike	ACN lot	21-Dec-10 red 16-Apr-11	S2092C/S2021C 1000 ug/mL	0.100	10.00	10.00 ug/ml
				S1788B 1000 ug/mL	0.100	10.00	10.00 ug/ml
				S2258C/2285 1000 ug/mL	0.400	10.00	40.00 ug/ml
				S2260c/2286 1000 ug/mL	0.400	10.00	40.00 ug/ml
		lot H21S02		S2293A 1000 ug/mL	0.100	10.00	10.00 ug/ml

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
EXP 4151	8330B LOD/LOQ Spike 150/600 ug/kg	MeCl2 lot J41E11	21-Dec-10 red 21-Jan-11	EXP 4150 10 ug/mL	1.500	10.00	1.50 ug/ml
				40 ug/mL	1.500	10.00	6.00 ug/ml
EXP 4152	8330B Soil LOD/LOQ 150/600 ug/kg	clean soil matrix	21-Dec-10 red 21-Jan-11	EXP 4151 1.5 ug/mL	10 mL Spike	100 g soil	150.00 ug/kg
				6 ug/mL			600.00 ug/kg

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S SVOC 8270 SOIL Analytical Run
72179 on 1/4/2011

Date Analyzed: _____ JJY 01/04/11 Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME		QC TYPE (Parent Sample)		CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	874148								SVOC 8270 QSM				
					MBS					35517			
	874149								SVOC 8270 QSM				
					LCSS					35517			
82424	870201		11/9/2010	1525			USACE - LOUISVILLE	RAVENNA	SVOC 8270 QSM		S	**4**	
		DLASS-014-0001-SO			Designated MS/MSD					35517			
	874146		11/9/2010	1525					SVOC 8270 QSM				
		DLASS-014-0001-SO			MSS	870201				35517			
	874147		11/9/2010	1525					SVOC 8270 QSM				
		DLASS-014-0001-SO			MSDS	874146				35517			
82424	870203		11/9/2010	1535			USACE - LOUISVILLE	RAVENNA	SVOC 8270 QSM		S	**4**	
		DLASS-014-0003-SO								35517			
82458	871184		11/11/2010	0900			USACE - LOUISVILLE	RAVENNA ORE PILES	SVOC 8270 QSM		S	**4**	
		DLASS-032-0003-SO								35517			
82458	871186		11/11/2010	1230			USACE - LOUISVILLE	RAVENNA ORE PILES	SVOC 8270 QSM		S	**4**	
		DLASS-042-0003-SO								35517			
82458	871197		11/11/2010	1220			USACE - LOUISVILLE	RAVENNA ORE PILES	SVOC 8270 QSM		S	**4**	
		DLASS-042-0001-SO								35517			
82458	871198		11/11/2010	0900			USACE - LOUISVILLE	RAVENNA ORE PILES	SVOC 8270 QSM		S	**4**	
		DLASS-032-0001-SO								35517			

10 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

PREP WORKSHEET
on 1/4/2011

Prep Batch **35,517**

Date Prepped: 11/22/2010

Prepped By:: BEL

Date Entered:

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
	874148	MBS		SVOC 8270 QSM	SOLID	1.0	10.00			
	874149	LCSS		SVOC 8270 QSM	SOLID	1.0	10.00			
82424	870201	*		SVOC 8270 QSM	SOIL	1.0	9.96		N	
	870203			SVOC 8270 QSM	SOIL	1.0	9.96		N	
82458	871184			SVOC 8270 QSM	SOIL	1.0	10.02		N	
	871186			SVOC 8270 QSM	SOIL	1.0	10.06		N	
	871197			SVOC 8270 QSM	SOIL	1.0	10.05		N	
	871198			SVOC 8270 QSM	SOIL	1.0	9.98		N	
	874146	MSS	870201	SVOC 8270 QSM	SOIL	1.0	9.98			
	874147	MSDS	874146	SVOC 8270 QSM	SOIL	1.0	9.95			

Control Spike/Control Spike Dup Reference Number:_____ Methanol Supplier/Lot #:_____

Notes:_____

METHOD 8270-SV GC/MS Extraction Bench Sheet
SOP Reference Number 8270, 8270 SIM Explosives, 8270SIM PAH

EPA Method references: ~~8270~~ (Semivolatiles) **Prep Batch Number** 35517
3510 (Separatory funnel extraction)
3545 (Pressurized Fluid Extraction)
3580 (Waste Dilution)
3546 (Microwave Extraction)

***Spike and Surrogate Information*:**
Spike amount and concentration (Matrix Spike and LCS): 1.0 mL @ 20 ug/mL
Spike Reference: SVMS 4609 ADDED: BEL
Surrogate amount and concentration: 1.0 mL @ 20/40 (BN/A) ug/mL
Surrogate Reference: SVMS 4676 ADDED: BEL
Reagent lot # $MeCl_2$ J36J16 Na_2SO_4 J29601 Acetone J14E52
Sulfuric Acid SVMS ~ NaOH SVMS — Diatomaceous earth 909120
Dionex DI 1432 Scale semibalance 1 GPC Start 11-24-10 @1200 GPC End 11-26-10

Extraction by: BEL Date 11/22/10 Start Time 9:00 End 10:00
Initial Concentration by: HHK Date 11/24/10
Final Concentration by: HHK Date 11/26/10

Cell #	Client	Sample Number	Sample Amt. (gm or L)	Final Vol (mL)	pH <2	pH >11	Comments
	Method Blank	MB 874148	10.00	1.0			
	Control Spike	LCS 874149	10.00				
	~~**Control Spike Dup.**~~	~~LCSD~~ N/A	BEL 11/22/10				
	Matrix Spike	MS 870201	9.98	1.0			
	Matrix Spike Dup.	MSD 870201	9.95				
	USACE	870201	9.96				
		870203	9.96				
		871184	10.02				
		871186	10.06				
		871197	10.05				
	↓	871198	9.98				

N/A BEL 11/22/10

Footnotes:

Final extract
Relinquished by: HHK Date: 11-26-10 Relinquished to: HHK Date: 11-26-10

h:\laboratory\ semi volatiles\semi bench sheets\8270 bench sheet2 Reviewed By: _____

S SVOC 8270 SOIL Analytical Run
72359 on 1/4/2011

Date Analyzed: _____ JJY

Date Entered: _____ 01/04/11

Date Reviewed: _____

Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME		QC TYPE (Parent Sample)		CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	877491								SVOC 8270 QSM				
					MBS					35631			
	877492								SVOC 8270 QSM				
					LCSS					35631			
82424	870189		11/10/2010	1015			USACE - LOUISVILLE	RAVENNA	SVOC 8270 QSM		S	**4**	
		DLASS-002-0001-SO			Designated MS/MSD					35631			
82424	870194		11/9/2010	1220			USACE - LOUISVILLE	RAVENNA	SVOC 8270 QSM		S	**4**	
		DLASS-022-0001-SO								35631			
82424	870195		11/9/2010	1230			USACE - LOUISVILLE	RAVENNA	SVOC 8270 QSM		S	**4**	
		DLASS-022-0003-SO								35631			
82424	870212		11/10/2010	1025			USACE - LOUISVILLE	RAVENNA	SVOC 8270 QSM		S	**4**	
		DLASS-002-0003-SO								35631			
	877489		11/10/2010	1015					SVOC 8270 QSM				
		DLASS-002-0001-SO			MSS	870189				35631			
	877490		11/10/2010	1015					SVOC 8270 QSM				
		DLASS-002-0001-SO			MSDS	877489				35631			

8 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

PREP WORKSHEET
on 1/4/2011

Prep Batch **35,631**

Prepped By:: HHK

Date Prepped: 12/3/2010

Date Entered:

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
	877491	MBS		SVOC 8270 QSM	SOLID	1.0	10.00			
	877492	LCSS		SVOC 8270 QSM	SOLID	1.0	10.00			
82424	870189	*		SVOC 8270 QSM	SOIL	1.0	9.96		N	
	870194			SVOC 8270 QSM	SOIL	1.0	10.02		N	
	870195			SVOC 8270 QSM	SOIL	1.0	10.01		N	
	870212			SVOC 8270 QSM	SOIL	1.0	9.98		N	
	877489	MSS	870189	SVOC 8270 QSM	SOIL	1.0	10.05			
	877490	MSDS	877489	SVOC 8270 QSM	SOIL	1.0	10.04			

Control Spike/Control Spike Dup Reference Number:_____ Methanol Supplier/Lot #:_____

Notes:_____

METHOD 8270-SV GC/MS Extraction Bench Sheet
SOP Reference Number 8270, 8270 SIM Explosives, 8270SIM PAH

EPA Method references: ~~8270~~ (Semivolatiles) **Prep Batch Number** 35631
3510 (Separatory funnel extraction)
3545 (Pressurized Fluid Extraction)
3580 (Waste Dilution)
3546 (Microwave Extraction)

***Spike and Surrogate Information*:**
Spike amount and concentration (Matrix Spike and LCS): 1.0 ml @ 20 ug/ml
Spike Reference: SVMS 4717 ADDED: HHK
Surrogate amount and concentration: 1.0 ml @ 20/40 BN/A ug/ml
Surrogate Reference: SVMS 4676 ADDED: HHK
Reagent lot # $MeCl_2$ 336116 Na_2SO_4 529601 Acetone 314E52
Sulfuric Acid SVMS NaOH SVMS — Diatomaceous earth 909120
Dionex DI Scale GPC Start 12-7-10 @ 1600 GPC End 12-7-10 @ 2400

Extraction by: HHK Date 12/3/10 Start Time 1500 End 1530
Initial Concentration by: HHK Date 12/7/10
Final Concentration by: HHK/BEL Date 12/8/10

Cell #	Client	Sample Number	Sample Amt. (gm or L)	Final Vol (mL)	pH <2	pH >11	Comments
	Method Blank	MB 877491	10.00	1.0			
	Control Spike	LCS 877492	1	1			
	~~Control Spike Dup.~~	~~LCSD~~	N/A HHK			12-2-10	
	Matrix Spike	MS 870189	10.05	1.0			
	Matrix Spike Dup.	MSD	10.04				
	USACE		9.96				
		870194	10.02				
		870195	10.01				
		870212	9.98				
			N/A HHK			12-3-10	

Footnotes:

Final extract
Relinquished by: HHK Date: 12-8-10 Relinquished to: HHK Date: 12-8-10

h:\laboratory\ semi volatiles\semi bench sheets\8270 bench sheet2 Reviewed By: _____

Sequence Name: C:\INSTARCH\SEQUENCE\2S120210B.S
Comment: 8270
Operator: RPN
Data Path: C:\INSTARCH\DATA\2S120210B\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line			Sample Name/Misc Info		
1)	DFTPP	1	2DFTPP51	2DFTPP	DFTPP SVMS4646
2)	Sample	99	2IB01	2S120210	INSTRUMENT BLANK
3)	Sample	2	2ICAL7	2S120210	ICAL 7 50ug/ml SVMS4685
4)	Sample	3	2ICAL6	2S120210	ICAL 6 40ug/ml SVMS4684
5)	Sample	4	2ICAL5	2S120210	ICAL 5 30ug/ml SVMS4683
6)	Sample	5	2ICAL4	2S120210	ICAL 4 20ug/ml SVMS4682
7)	Sample	6	2ICAL3	2S120210	ICAL 3 10ug/ml SVMS4681
8)	Sample	7	2ICAL2	2S120210	ICAL 2 5ug/ml SVMS4680
9)	Sample	8	2ICAL1	2S120210	ICAL 1 1ug/ml SVMS4679
10)	Sample	9	2ICV1	2S120210	ICV 1 20ug/ml SVMS4686
11)	Sample	10	2ICV2	2S120210	ICV 2 40ug/ml SVMS4687
12)	Sample	11	2MBW01	2S120210	72180,MBW,1
13)	Sample	12	2LCSW01	2S120210	72180,LCSW,1
14)	Sample	13	873036	2S120210	72180,873036,1
15)	Sample	14	873036MS	2S120210	72180,MSW873036,1
16)	Sample	15	873036SD	2S120210	72180,MSDW873036,1
17)	Sample	16	873037	2S120210	72180,873037,1
18)	Sample	17	873038D	2S120210	72180,873038,10
19)	Sample	18	873039D	2S120210	72180,873039,10
20)	Sample	19	873041D	2S120210	72180,873041,10
21)	Sample	17	873038D2	2S120210	72180,873038,50
22)	Sample	18	873039D2	2S120210	72180,873039,50
23)	Sample	19	873041D2	2S120210	72180,873041,100
24)	Sample	2	2MBS01	2S120210	72179,MBS,1
25)	Sample	3	2LCSS01	2S120210	72179,LCSS,1
26)	Sample	4	870201	2S120210	72179,870201,1
27)	Sample	5	870201MS	2S120210	72179,MSS870201,1
28)	Sample	6	870201SD	2S120210	72179,MSDS870201,1
29)	Sample	7	870203	2S120210	72179,870203,1
30)	Sample	8	871184	2S120210	72179,871184,1
31)	Sample	9	871186	2S120210	72179,871186,1
32)	Sample	10	871197	2S120210	72179,871197,1
33)	Sample	11	871198	2S120210	72179,871198,1
34)	Sample	5	870201SR	2S120210	72179,MSS870201,1
35)	Sample	6	870201DR	2S120210	72179,MSDS870201,1
36)	Sample	99	2IB02	2S120210	INSTRUMENT BLANK

Sequence Name: C:\INSTARCH\SEQUENCE\2S120510.S
Comment: 8270
Operator: RPN
Data Path: C:\INSTARCH\DATA\2S120510\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

RPN
12/05/10

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line			Sample Name/Misc Info	
1)	Sample	99	2IB01	2S120210 INSTRUMENT BLANK
2)	DFTPP	1	2DFTPP53	2DFTPP DFTPP SVMS4646
3)	Sample	2	2CCV47	2S120210 CCV 20ug/ml SVMS4688
4)	Sample	3	2CCV48	2S120210 CCV 20ug/ml SVMS4551
5)	Sample	4	2MBS01	2S120210 72185,MBS,1
6)	Sample	5	2LCSS01	2S120210 72185,LCSS,1
7)	Sample	6	874855	2S120210 72185,874855,1
8)	Sample	7	874855MS	2S120210 72185,MSS874855,1
9)	Sample	8	874855SD	2S120210 72185,MSDS874855,1
10)	Sample	9	874843	2S120210 72185,874843,1
11)	Sample	10	874851	2S120210 72185,874851,1
12)	Sample	11	874852	2S120210 72185,874852,1
13)	Sample	12	874853	2S120210 72185,874853,1
14)	Sample	13	874854	2S120210 72185,874854,1
15)	Sample	14	874856	2S120210 72185,874856,1
16)	Sample	15	874857	2S120210 72185,874857,1
17)	Sample	16	874858	2S120210 72185,874858,1
18)	Sample	17	874861	2S120210 72185,874861,1
19)	Sample	18	874862	2S120210 72185,874862,1
20)	Sample	5	2LCSS01R	2S120210 72185,LCSS,1
21)	Sample	7	874855SR	2S120210 72185,MSS874855,1
22)	Sample	8	874855DR	2S120210 72185,MSDS874855,1
23)	Sample	11	874852R	2S120210 72185,874852,1
24)	Sample	19	2LCSS02R	2S120210 72179,LCSS,1
25)	Sample	17	874861R	2S120210 72185,874861,1
26)	Sample	18	874862R	2S120210 72185,874862,1

Sequence Name: C:\INSTARCH\SEQUENCE\2S120810.S
Comment: 8270
Operator: RPN
Data Path: C:\INSTARCH\DATA\2S120810\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

RPN
12/08/10

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line			Sample Name/Misc Info		
1)	Sample	99	2IB01	2S120210	INSTRUMENT BLANK
2)	DFTPP	1	2DFTPP55	2DFTPP	DFTPP SVMS4646
3)	Sample	2	2CCV51	2S120210	CCV 20ug/ml SVMS4688
4)	Sample	3	2CCV52	2S120210	CCV 20ug/ml SVMS4551
5)	Sample	4	2MBS01	2S120210	72185,MBS,1
6)	Sample	5	2LCSS01	2S120210	72185,LCSS,1
7)	Sample	6	874855	2S120210	72185,874855,1
8)	Sample	7	874855MS	2S120210	72185,MSS874855,1
9)	Sample	8	874855SD	2S120210	72185,MSDS874855,1
10)	Sample	9	874843	2S120210	72185,874843,1
11)	Sample	10	874851	2S120210	72185,874851,1
12)	Sample	11	874852	2S120210	72185,874852,1
13)	Sample	12	874853	2S120210	72185,874853,1
14)	Sample	13	874854	2S120210	72185,874854,1
15)	Sample	14	874856	2S120210	72185,874856,1
16)	Sample	15	874857	2S120210	72185,874857,1
17)	Sample	16	874858	2S120210	72185,874858,1
18)	Sample	17	874861	2S120210	72185,874861,1
19)	Sample	18	874862	2S120210	72185,874862,1
20)	Sample	5	2LCSS01R	2S120210	72185,LCSS,1
21)	Sample	7	874855SR	2S120210	72185,MSS874855,1
22)	Sample	8	874855DR	2S120210	72185,MSDS874855,1
23)	Sample	99	2IB02	2S120210	INSTRUMENT BLANK
24)	Sample	19	2MBS02	2S120210	72359,MBS,1
25)	Sample	20	2LCSS02	2S120210	72359,LCSS,1
26)	Sample	21	870189	2S120210	72359,870189,1
27)	Sample	22	2LCSS03	2S120210	72360,LCSS,1
28)	Sample	23	875762	2S120210	72360,875762,1
29)	Sample	24	870194	2S120210	72359,870194,1
30)	Sample	25	870195	2S120210	72359,870195,1
31)	Sample	26	2MBS03	2S120210	72360,MBS,1
32)	Sample	99	2IB03	2S120210	INSTRUMENT BLANK
33)	Sample	27	870212	2S120210	72359,870212,1
34)	Sample	28	870189MS	2S120210	72359,MSS870189,1
35)	Sample	29	870189SD	2S120210	72359,MSDS870189,1
36)	Sample	99	2IB04	2S120210	INSTRUMENT BLANK

Sequence Name: C:\INSTARCH\SEQUENCE\2S120910.S
Comment: 8270
Operator: RPN
Data Path: C:\INSTARCH\DATA\2S120910\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line			Sample Name/Misc Info	
1)	Sample	100	2PRIM01	2S120210 PRIMER 50ug/ml
2)	Sample	99	2IB01	2S120210 INSTRUMENT BLANK
3)	DFTPP	1	2DFTPP56	2DFTPP DFTPP SVMS4646
4)	Sample	2	2CCV53	2S120210 CCV 20ug/ml SVMS4688
5)	Sample	3	2CCV54	2S120210 CCV 20ug/ml SVMS4551
6)	Sample	4	2MBS01	2S120210 72378,MBS,1
7)	Sample	5	2LCSS01	2S120210 72378,LCSS,1
8)	Sample	6	876777	2S120210 72378,876777,1
9)	Sample	7	876777MS	2S120210 72378,MSS876777,1
10)	Sample	8	876777SD	2S120210 72378,MSDS876777,1
11)	Sample	9	876763	2S120210 72378,876763,1
12)	Sample	10	876771	2S120210 72378,876771,1
13)	Sample	11	876772	2S120210 72378,876772,1
14)	Sample	12	876773	2S120210 72378,876773,1
15)	Sample	13	876774	2S120210 72378,876774,1
16)	Sample	14	876775	2S120210 72378,876775,1
17)	Sample	15	876776	2S120210 72378,876776,1
18)	Sample	16	876778	2S120210 72378,876778,1
19)	Sample	17	876779	2S120210 72378,876779,1
20)	Sample	18	876780	2S120210 72378,876780,1
21)	Sample	19	2LCSS02R	2S120210 72359,LCSS,1
22)	Sample	5	2LCSS01R	2S120210 72378,LCSS,1
23)	Sample	20	2LCSS03R	2S120210 72360,LCSS,1
24)	Sample	21	870189SR	2S120210 72359,MSS870189,1
25)	Sample	22	870189DR	2S120210 72359,MSDS870189,1
26)	Sample	23	875762D	2S120210 72360,875762,5
27)	Sample	99	2IB02	2S120210 INSTRUMENT BLANK

Table 4

8270 SVOC Analysis Data Review Checklist

Analytical Run #:72179	**Independent Reviewer: JJY**
Sequence Date: 12/02/2010	**Date of Review: 12/14/2010**
Analyst/Data Interpreter: RPN	**Approval: Yes**

Instructions: Complete one checklist per *analytical run* . Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section, and may require the initiation of a Nonconformance Report.

Requirements:	Acceptance Criteria	Analyst Review		Independent Review		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
1. INITIAL CALIBRATION (ICAL)						
a. Was the initial calibration performed using a minimum of five standard concentration levels?	Lowest standard at or near MRL	**Yes**		**Yes**		
b. SPCC responses.	Avg. RRF ≥ 0.05	**Yes**		**Yes**		
c. Is the variation between calibration response factors for all concentration levels <20% RSD, is r >.995, or r^2 > 0.990 for the regression line. RSD≤ 15%, ≤ 30% for CCCs.	RSD≤ 15%, ≤ 30% for CCCs	**Yes**		**Yes**		
d. Were the standards used for the ICAL uniquely identified?		**Yes**		**Yes**		
e. Was there a DFTPP standard analyzed prior to the ICAL?		**Yes**		**Yes**		
f. Was an instrument blank (IB) analyzed prior to the ICAL?		**Yes**		**Yes**		
2. INITIAL CALIBRATION VERIFICATION (ICV)						
a. Were there a second source ICVs for all target analytes analyzed after the initial calibration and prior to analysis of any samples?	Second source	**Yes**		**Yes**		
b. Were the SPCC within QC limits	RRF ≥ 0.05	**Yes**		**Yes**		
c. Were the CCCs within QC limits	%D ≤ 20%	**Yes**		**Yes**		
d. Were the ICVs uniquely identified (i.e. Standard Number)?		**Yes**		**Yes**		
3. CONTINUING CALIBRATION VERIFICATION (CCV)						
a. Were CCVs for target analytes analyzed at the beginning of the sequence and after every 12 hours.		**Yes**		**Yes**		
b. Were SPCC compounds acceptable?	RRF ≥ 0.050	**Yes**		**Yes**		
c. Were the CCCs compounds acceptable?	%D ≤ 20%	**Yes**		**Yes**		
d. Were the recoveries for the CCVs acceptable?	%D≤20%	**Yes**		**Yes**		
e. Was each CCV uniquely identified (i.e. Standard Number)?		**Yes**		**Yes**		

Additional Comments:

Analytical Run #:72179

Table 4

8270 SVOC Analysis Data Review Checklist

Requirements:	Acceptance Criteria	Analyst		Independent		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
4. DFTPP						
a. Was a DFTPP tune check ran at the beginning of every twelve hour shift?		**Yes**		**Yes**		
b. Were the relative abundance criteria met?		**Yes**		**Yes**		
c. Was the peak tailing <2 on Pentachlorophenol and <2 on Benzidine?	Tailing <2%	**Yes**		**Yes**		
d. Was the breakdown of DDT to DDE and DDD less than 20%	Breakdown ≤20%	**Yes**		**Yes**		
5. BLANKS						
a. Was method blank (MB) analyzed prior to the analysis of samples?		**Yes**		**Yes**		
b. Were the MB results less than the reporting limit (RL)?	< MRL	**Yes**		**Yes**		
c. Was a MB prepped and analyzed at a frequency of one per Prep Batch?	Batch <20 samples	**Yes**		**Yes**		
6. LABORATORY CONTROL SAMPLE (LCS)						
a. Was a LCS analyzed prior to the analysis of samples?		**Yes**		**Yes**		
b. Were the LCS recoveries in each LCS within the acceptance criteria?	In-house limits or client specified limits		**No**		**No**	See Below
7. MATRIX SPIKES						
a. Was a matrix spiked (MS) sample analyzed at a frequency one per Prep Batch?	Batch <20 samples	**Yes**		**Yes**		
b. Were MS recoveries in each MS within the acceptance criteria?	In-house limits or client specified limits		**No**		**No**	See Below
8. LABORATORY CONTROL SPIKE / MATRIX SPIKE DUPLICATE						
a. Was a duplicate matrix spike or laboratory control spike sample analyzed at a frequency one per Prep Batch?	Batch <20 samples	**Yes**		**Yes**		
b. Were MSD or LCSD recoveries within the acceptance criteria?	In-house limits or client specified limits		**No**		**No**	See Below
c. Is the relative percent difference (RPD) between a matrix spike (MS) and its' duplicate (MSD) or laboratory control spike (LCS) and its' duplicate (LCSD) within the acceptance criteria?	In-house limits or client specified limits	**Yes**		**Yes**		

Additional Comments:

LCSS874179: Recovery of Pyridine and Benzidine low. Confirmed. "Q"

870201MS & MSD: Recoveries of 4-Chloroaniline, 3'3'-Dichlorobenzidine, 3-Nitroaniline, 4-Nitroaniline, Aniline, Benzidine, Benzoicacid and Pyridine . Confirmed. "M"

Analytical Run #:72179

Table 4

8270 SVOC Analysis Data Review Checklist

Requirements:	Acceptance Criteria	Analyst		Independent		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
9. SAMPLES (INCLUDING BLANKS, STANDARDS, AND QC SAMPLES)						
a. Are chromatogram characteristics, including peak shapes and areas, consistent with those of the CCV?		**Yes**		**Yes**		
b. Are surrogate recoveries for all samples, blanks, standards, and QC samples within acceptance criteria?		**Yes**		**Yes**		
c. Were all samples having analytes detected in amounts exceeding the calibration range diluted and reanalyzed?		**Yes**		**Yes**		
d. Were all samples extracted within holding times and analyzed within 40 days of extracting?	Analysis within 40 days of extraction	**Yes**		**Yes**		
e. Did the samples require additional cleanup steps? (i.e. acid treatment, acid-base fractioning, and GPC)	GPC, Acid/Base, Treatments	**Yes**		**Yes**		GPC
10. RECORDS AND REPORTING						
a. Are Run, Prep Batch and Extraction sheets, Summary sheets, Sequence file, initial and rerun raw and process data present in the data file?		**Yes**		**Yes**		
b. Are all chromatograms dated and initialed?		**Yes**		**Yes**		
c. Are reported results whose amounts exceeded the acceptance criteria flagged with an appropriate qualifier and, if needed, a NCR completed?		**Yes**		**Yes**		
d. Do all values, dilution factors and qualifiers listed on the raw reports match the LIMS data?		**Yes**		**Yes**		
e. Is the ICAL method referenced on the Raw Data?		**Yes**		**Yes**		

Additional Comments:

Manual Integration for Benzo(b)fluoranthene and/or Bnzo(k)fluoranthene. Samples 870201, 870203, 871184 & 871198

Table 4

8270 SVOC Analysis Data Review Checklist

Analytical Run #:72359	**Independent Reviewer: JJY**
Sequence Date: 12/08/2010, 12/09/10	**Date of Review: 12/16/2010**
Analyst/Data Interpreter: RPN	**Approval: Yes**

Instructions: Complete one checklist per *analytical run* . Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section, and may require the initiation of a Nonconformance Report.

Requirements:	Acceptance Criteria	Analyst Review		Independent Review		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
1. INITIAL CALIBRATION (ICAL)						
a. Was the initial calibration performed using a minimum of five standard concentration levels?	Lowest standard at or near MRL	**Yes**		**Yes**		
b. SPCC responses.	Avg. RRF ≥ 0.05	**Yes**		**Yes**		
c. Is the variation between calibration response factors for all concentration levels <20% RSD, is r >.995, or r^2 > 0.990 for the regression line. RSD≤ 15%, ≤ 30% for CCCs.	RSD≤ 15%, ≤ 30% for CCCs	**Yes**		**Yes**		
d. Were the standards used for the ICAL uniquely identified?		**Yes**		**Yes**		
e. Was there a DFTPP standard analyzed prior to the ICAL?		**Yes**		**Yes**		
f. Was an instrument blank (IB) analyzed prior to the ICAL?		**Yes**		**Yes**		
2. INITIAL CALIBRATION VERIFICATION (ICV)						
a. Were there a second source ICVs for all target analytes analyzed after the initial calibration and prior to analysis of any samples?	Second source	**Yes**		**Yes**		
b. Were the SPCC within QC limits	RRF ≥ 0.05	**Yes**		**Yes**		
c. Were the CCCs within QC limits	%D ≤ 20%	**Yes**		**Yes**		
d. Were the ICVs uniquely identified (i.e. Standard Number)?		**Yes**		**Yes**		
3. CONTINUING CALIBRATION VERIFICATION (CCV)						
a. Were CCVs for target analytes analyzed at the beginning of the sequence and after every 12 hours.		**Yes**		**Yes**		
b. Were SPCC compounds acceptable?	RRF ≥ 0.050	**Yes**		**Yes**		
c. Were the CCCs compounds acceptable?	%D ≤ 20%	**Yes**		**Yes**		
d. Were the recoveries for the CCVs acceptable?	%D≤20%	**Yes**		**Yes**		
e. Was each CCV uniquely identified (i.e. Standard Number)?		**Yes**		**Yes**		

Additional Comments:

Analytical Run #:72359

Table 4

8270 SVOC Analysis Data Review Checklist

Requirements:	Acceptance Criteria	Analyst		Independent		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
4. DFTPP						
a. Was a DFTPP tune check ran at the beginning of every twelve hour shift?		**Yes**		**Yes**		
b. Were the relative abundance criteria met?		**Yes**		**Yes**		
c. Was the peak tailing <2 on Pentachlorophenol and <2 on Benzidine?	Tailing <2%	**Yes**		**Yes**		
d. Was the breakdown of DDT to DDE and DDD less than 20%	Breakdown ≤20%	**Yes**		**Yes**		
5. BLANKS						
a. Was method blank (MB) analyzed prior to the analysis of samples?		**Yes**		**Yes**		
b. Were the MB results less than the reporting limit (RL)?	< MRL	**Yes**		**Yes**		
c. Was a MB prepped and analyzed at a frequency of one per Prep Batch?	Batch <20 samples	**Yes**		**Yes**		
6. LABORATORY CONTROL SAMPLE (LCS)						
a. Was a LCS analyzed prior to the analysis of samples?		**Yes**		**Yes**		
b. Were the LCS recoveries in each LCS within the acceptance criteria?	In-house limits or client specified limits		**No**		**No**	See Below
7. MATRIX SPIKES						
a. Was a matrix spiked (MS) sample analyzed at a frequency one per Prep Batch?	Batch <20 samples	**Yes**		**Yes**		
b. Were MS recoveries in each MS within the acceptance criteria?	In-house limits or client specified limits		**No**		**No**	See Below
8. LABORATORY CONTROL SPIKE / MATRIX SPIKE DUPLICATE						
a. Was a duplicate matrix spike or laboratory control spike sample analyzed at a frequency one per Prep Batch?	Batch <20 samples	**Yes**		**Yes**		
b. Were MSD or LCSD recoveries within the acceptance criteria?	In-house limits or client specified limits		**No**		**No**	See Below
c. Is the relative percent difference (RPD) between a matrix spike (MS) and its' duplicate (MSD) or laboratory control spike (LCS) and its' duplicate (LCSD) within the acceptance criteria?	In-house limits or client specified limits		**No**		**No**	See Below

Additional Comments:

LCSS877492: Recovery of Pyridine low. Confirmed. "Q"

870189MS & MSD: Low recoveries of Benzidine, 2,4-Dinitrophenol, 3'3'-Dichlorobenzidine, 3-Nitroaniline, 4,6-Dinitro-2-methylphenol, 4-Chloroaniline, Aniline, Hexachlorocyclopentadiene and Pyridine . MSD also had low recovery of 2,4-Dimethylphenol. Confirmed. "M"

RPD high for 4,6-Dinitro-2-methylphenol & Hexachlorocyclopentadiene. "Y"

Analytical Run #:72359

Table 4

8270 SVOC Analysis Data Review Checklist

Requirements:	Acceptance Criteria	Analyst		Independent		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
9. SAMPLES (INCLUDING BLANKS, STANDARDS, AND QC SAMPLES)						
a. Are chromatogram characteristics, including peak shapes and areas, consistent with those of the CCV?		**Yes**		**Yes**		See Below
b. Are surrogate recoveries for all samples, blanks, standards, and QC samples within acceptance criteria?		**Yes**		**Yes**		
c. Were all samples having analytes detected in amounts exceeding the calibration range diluted and reanalyzed?		**Yes**		**Yes**		
d. Were all samples extracted within holding times and analyzed within 40 days of extracting?	Analysis within 40 days of extraction	**Yes**		**Yes**		
e. Did the samples require additional cleanup steps? (i.e. acid treatment, acid-base fractioning, and GPC)	GPC, Acid/Base, Treatments	**Yes**		**Yes**		GPC
10. RECORDS AND REPORTING						
a. Are Run, Prep Batch and Extraction sheets, Summary sheets, Sequence file, initial and rerun raw and process data present in the data file?		**Yes**		**Yes**		
b. Are all chromatograms dated and initialed?		**Yes**		**Yes**		
c. Are reported results whose amounts exceeded the acceptance criteria flagged with an appropriate qualifier and, if needed, a NCR completed?		**Yes**		**Yes**		
d. Do all values, dilution factors and qualifiers listed on the raw reports match the LIMS data?		**Yes**		**Yes**		
e. Is the ICAL method referenced on the Raw Data?		**Yes**		**Yes**		

Additional Comments:

Manual Integration of Benzo(b)fluoranthene and/or Benzo(k)fluoranthene in samples 870189, 870194, 870195 and 870212. Reason # 3

8270 SPIKE 20 ug/mL

4609	STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. ug/mL	V added uL	V final mL	CONC ug/mL
RPN 10/07/10 x4/6/2011	8270 MEGAMIX	Restek	31850	S2249	A075665	1000	1000	50	20
	Benzidines	Restek	31834	S2248	A072315	2000	500	50	20
	XCT-CM-1	SPEX	XCT-CM-1	S2187C	T1090804002	2000	500	50	20
	Acetone	JTBaker	9254-03	N/A	H30E21	99.9%			

8270 SPIKE 20 ug/mL

SVMS 4610	STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. ug/mL	V added uL	V final mL	Conc final ug/mL
RPN 10/07/10 x4/6/2011	8270 MEGAMIX	Restek	31850	S2249	A075665	1000	200	10	20
	Benzidines	Restek	31834	S2248	A072315	2000	100	10	20
	XCT-CM-1	SPEX	XCT-CM-1	S2187C	T1090804002	2000	100	10	20
	Acetone	JTBaker	9254-03	N/A	H30E21	99.9%			

SVMS 4611 Surr Internal Standards @ 100 µg/mL
10/7/2010 50µl S2244B @ 2000 µg/mL
10/14/2010 Calculated to 1.0 ml with MeCl2

8270 Extra Analyte List Calibration Working Standards

RPN 10/11/10 4/10/2011		STD ID	PARENT STD	PARENT CONC ug/mL	Vol STD uL	Vol final mL	CONC final ug/mL
	ICAL1	SVMS4612	SVMS4618	50	100	5	1
	ICAL2	SVMS4613	S2243A	2000	12.5	5	5
	ICAL3	SVMS4614	S2243A	2000	25	5	10
	ICAL4	SVMS4615	S2243A	2000	50	5	20
	ICAL5	SVMS4616	S2243A	2000	75	5	30
	ICAL6	SVMS4617	S2243A	2000	100	5	40
	ICAL7	SVMS4618	S2243A	2000	125	5	50
	ICV1	SVMS4619	S2242B	2000	50	5	20
	ICV2	SVMS4620	S2242B	2000	100	5	40
	CCV	SVMS4621	S2243A	2000	50	5	20

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Read and Understood By

Signed Date Signed Date

SVMS 4643 8270 Sim/SCAN Internal Standards
10/20/2010 500µL S2244C @ 2000 µg/mL — 1000µg/mL RPN
x + 500 µL S2041C @ 1000 µg/mL — 500µg/mL

SVMS 4644 8270 SIM Internal Standards @ 100µg/mL
11/2/2010 50µL S2263A @ 2000 µg/mL RPN
x 11/9/2010 diluted to 1.0 mL with MeCl2

SVMS 4645 Sim Internal Standards @ 100 µg/mL
11/12/2010 50µL S2263A @ 2000 µg/mL RPN
x 11/19/2010 diluted to 1.0 mL with MeCl2

RPN

DFTPP TUNE MIX 50µg/ml									
SVMS 4646 RPN	STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. ug/mL	V added uL	V final mL	CONC final ug/mL
11/15/2010	GC/MS Tuning Mix	Restek	31615	S2224	A060630	1000	500	10	50
X5/14/2011	MeCl2	JTBaker			H49S06	99%			

SVMS 4647 Sim/PEST SPIKE @ 1 µg/mL
11/15/2010 125µL S2154B @ 200µg/mL RPN
12/31/2010 +25µL S1946 @ 1000µg/mL
diluted to 25 mL with Acetone JTBaker H30E21

SVMS 4648 8270 SIM/PAH Intermediate Stock Std @ 20µg/mL
11/15/2010 100µL S2272 @ 2000 µg/mL
x 5/14/2011 + 40 µL B/N Surrogate S2163B @ 5000µg/mL RPN
Diluted to 10 mL with MeCl2 JTBaker J21S09

SVMS 4649 8270 SVM/PAH ICV Int. Std @ 20µg/mL RPN
11/15/2010 100µL S2273 @ 2000 µg/mL
x 5/14/2011 + 40 µL B/N Surrogate S2163B @ 5000 µg/mL
Diluted to 10 mL with MeCl2

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Signed	Date	Signed	Date

8270SIM/PAH SPIKE 1.0 ug/mL									
SVMS 4663 RPN	STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. ug/mL	V added uL	V final mL	CONC final ug/mL
11/15/2010	8270 CAL.MIX 5	Restek	31622	S2272	A077605	2000	25	50	1
X5/14/2011	Acetone	JTBaker			H30E21				

SVMS 4664 8270 SIM/PEST STOCK STD @ 20µg/mL
11/16/2010 400 µL S2277 @ 500 µg/mL
x 5/15/2010 + 40 µL B/N Surrogate @ 5000 µg/mL (S2163B) RPN
↳ diluted to 10mL w/ MeCl2 JTBaker H30E21

SVMS 4665 8270 SIM/PEST ICV Stock Std. @ 20µg/mL
11/16/2010 500 µL S2274A @ 200 µg/mL
x 5/15/2010 + 20 µL B/N Surrogate S2163B @ 5000 µg/mL
Diluted to 5mL w/ MeCl2. JTBaker H30E21

8270 SIM-PEST Calibration working standards							
		STD ID	PARENT STD	PARENT CONC (µg/mL)	Vol STD uL	Vol final mL	CONC final ng/mL
RPN 11/16/2010 X5/15/2011	ICAL1	SVMS4666	SVMS4664	20	10	10	20
	ICAL2	SVMS4667	SVMS4664	20	25	10	50
	ICAL3	SVMS4668	SVMS4664	20	50	10	100
	ICAL4	SVMS4669	SVMS4664	20	250	10	500
	ICAL5	SVMS4670	SVMS4664	20	500	10	1000
	ICAL6	SVMS4671	SVMS4664	20	750	10	1500
	ICAL7	SVMS4672	SVMS4664	20	1000	10	2000
	ICV1	SVMS4673	SVMS4665	20	250	10	500
	ICV2	SVMS4674	SVMS4665	20	750	10	1500
	CCV	SVMS4675	SVMS4664	20	250	10	500

8270 SURROGATES BN/A 20/40 ug/mL									
SVMS4676 RPN 11/16/2010 05/16/2011	STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. (ugml)	V added uL	V final mL	CONC final (ug/mL)
	ACID SURR.	RESTEK	31063	S2200B	A060787	10000	400	100	40
	B/N SURR.	RESTEK	31062	S2163B	A073966	5000	400	100	20
	Acetone	JTBaker		N/A	H30E21	99.9%			

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8270 ICAL Stock 100 ug/mL

SVMS4677

RPN
11/22/10
x 05/18/2011

STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. ug/mL	V added uL	V final mL	CON ug
8270 MEGAMIX	Restek	31850	S2268A	A076907	1000	1000	10	1
Benzidines	Restek	31834	S2266	A077154	2000	500	10	1
XCT-CM-1	SPEX-CERT	XCT-CM-1	S2186C	I1090804001	2000	500	10	1
8270 Acid Surr	Restek	31063	S2200B	A060787	10000	100	10	1
8270 BN Surr	Restek	31062	S2163B	A073966	5000	200	10	1
DCM	JTBaker		N/A	H49S06	99.9%			

8270 2nd Source ICV Stock 100 ug/mL

SVMS4678

RPN
11/22/10
x 05/18/2011

STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. ug/mL	V added uL	V final mL	CON ug
8270 MEGAMIX	Restek	31850	S2269	A077266	1000	500	5	100
Benzidines	Restek	31834	S2267	A074191	2000	250	5	100
XCT-CM-1	SPEX-CERT	XCT-CM-1	S2187B	I1090804002	2000	250	5	100
8270 Acid Surr	Restek	31063	S2200B	A060787	10000	50	5	100
8270 BN Surr	Restek	31062	S2163B	A073966	5000	100	5	100
DCM	JTBaker		N/A	H49S06	99.9%			

8270 Calibration Working Standards

RPN
11/22/10
x 5/18/2011

	STD ID	PARENT STD	PARENT CONC ug/mL	Vol STD uL	Vol final mL	CONC final ug/mL
ICAL1	SVMS4679	SVMS4677	100	10	1	1
ICAL2	SVMS4680	SVMS4677	100	50	1	5
ICAL3	SVMS4681	SVMS4677	100	100	1	10
ICAL4	SVMS4682	SVMS4677	100	200	1	20
ICAL5	SVMS4683	SVMS4677	100	300	1	30
ICAL6	SVMS4684	SVMS4677	100	400	1	40
ICAL7	SVMS4685	SVMS4677	100	500	1	50
ICV1	SVMS4686	SVMS4678	100	200	1	20
ICV2	SVMS4687	SVMS4678	100	400	1	40
CCV	SVMS4688	SVMS4677	100	200	1	20

SVMS 4689 8270 SIM Internal Standards @ 100 ug/mL
11/23/2010 50 µL S2263A @ 2000 ug/mL
x 11/30/2010 diluted to 1.0 mL w/ MeCl2

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Read and Understood By

Signed Date Signed Date

8270 Addl. Comp. Calibration working standards (SIM/SCAN)

RPN
12/1/2010
X5/29/2011

	STD ID	PARENT STD	PARENT CONC µg/mL	Vol STD uL	Vol final mL	CONC final ug/mL
ICAL1	SVMS4706	SVMS4704	100	5	0.5	1
ICAL2	SVMS4707	SVMS4704	100	25	0.5	5
ICAL3	SVMS4708	SVMS4704	100	50	0.5	10
ICAL4	SVMS4709	SVMS4704	100	100	0.5	20
ICAL5	SVMS4710	SVMS4704	100	150	0.5	30
ICAL6	SVMS4711	SVMS4704	100	200	0.5	40
ICAL7	SVMS4712	SVMS4704	100	250	0.5	50
ICV1	SVMS4713	SVMS4705	100	100	0.5	20
ICV2	SVMS4714	SVMS4705	100	200	0.5	40
CCV	SVMS4715	SVMS4704	100	100	0.5	20

JJY 12/2/10

JJY 12/2/10
SVMS4717
JJY 168
12 02 10
x 05/18/2011

8270 SIM SURROGATES 1.0 ug/mL

STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. ug/mL	V added uL	V final mL	CONC final ug/mL
B/N SURR.	RESTEK	31062	S2163C	A073966	5000	20	100	1
Acetone	JT Baker		N/A	J14E52	99.9%			

JJY 12/2/10

SVMS4716
JJY
12 02 10
x 05/18/2011

8270 SIM SURROGATES 1.0 ug/mL

STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. ug/mL	V added uL	V final mL	CONC final ug/mL
B/N SURR.	RESTEK	31062	S2163C	A073966	5000	20	100	1
Acetone	JT Baker		N/A	J14E52	99.9%			

8270 SPIKE 20 ug/mL

SVMS4717

RPN
12/03/10
x4/6/2011

STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. ug/mL	V added uL	V final mL	CONC final ug/mL
8270 MEGAMIX	Restek	31850	S2269	A077266	1000	500	25	20
Benzidines	Restek	31834	S2248	A072315	2000	250	25	20
XCT-CM-1	SPEX	XCT-CM-1	S2187C	T1090804002	2000	250	25	20
Biphenyl	SPEX	S-500	S2194B	M1091211004	1000	500	25	20
Additions Std	Restek	31902	S2276	A077017	1000	500	25	20
Acetone	JTBaker		N/A	J30E52	99.9%			

8270 SPIKE 20 ug/mL

SVMS4718

RPN
12/03/10
x4/6/2011

STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. ug/mL	V added uL	V final mL	CONC final ug/mL
8270 MEGAMIX	Restek	31850	S2269	A077266	1000	200	10	20
Benzidines	Restek	31834	S2248	A072315	2000	100	10	20
XCT-CM-1	SPEX	XCT-CM-1	S2187C	T1090804002	2000	100	10	20
Biphenyl	SPEX	S-500	S2194B	M1091211004	1000	200	10	20
Additions Std	Restek	31902	S2276	A077017	1000	200	10	20
Acetone	JTBaker		N/A	J30E52	99.9%			

Signed _____ Date _____ Signed _____ Date _____

POLYCHLORINATED BIPHENYL QUALITY CONTROL SUMMARY DOCUMENTS

CT LABORATORIES
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1D-2

PCB ORGANICS ANALYSIS

Sample Description

DLASS-002-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82399
Sample wt/vol:	10.00 (g/L)	CTL Sample ID:	870189
% Solids:	98.1	Date Received:	11/11/2010
Conc. Extract Vol:	10.00 (mL)	Date/Time Prepared:	12/03/2010 / 15:00
Analytical Method:	EPA 8082A	Analytical Prep Batch #	35630
Analytical Run #:	72286	Dilution Factor:	1.00
Date & Time Analyzed:	12/08/2010 / 16:42		

Cleanup Date/Time/Type: , 12/07/2010 16:00 (Sulfur) , 12/07/2010 15:00 (Acid) ,

TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*): /

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
12674-11-2	Aroclor-1016	10	U	10	25	51	51
11104-28-2	Aroclor-1221	20	U	20	25	51	67
11141-16-5	Aroclor-1232	28	U	28	25	51	92
53469-21-9	Aroclor-1242	30	U	30	25	51	98
12672-29-6	Aroclor-1248	30	U	30	25	51	99
11097-69-1	Aroclor-1254	23	U	23	25	51	77
11096-82-5	Aroclor-1260	12	U	12	25	51	51
37324-23-5	Aroclor-1262	21	U	21	25	51	72
11100-14-4	Aroclor-1268	29	U	29	25	51	94

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1D-2

PCB ORGANICS ANALYSIS

Sample Description

DLASS-022-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82399
Sample wt/vol:	10.05 (g/L)	CTL Sample ID:	870194
% Solids:	98.2	Date Received:	11/11/2010
Conc. Extract Vol:	10.00 (mL)	Date/Time Prepared:	12/03/2010 / 15:00
Analytical Method:	EPA 8082A	Analytical Prep Batch #	35630
Analytical Run #:	72286	Dilution Factor:	1.00
Date & Time Analyzed:	12/08/2010 / 15:31		

Cleanup Date/Time/Type: , 12/07/2010 16:00 (Sulfur) , 12/07/2010 15:00 (Acid) ,

TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*): /

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
12674-11-2	Aroclor-1016	10	U	10	25	51	51
11104-28-2	Aroclor-1221	20	U	20	25	51	67
11141-16-5	Aroclor-1232	27	U	27	25	51	91
53469-21-9	Aroclor-1242	29	U	29	25	51	97
12672-29-6	Aroclor-1248	29	U	29	25	51	98
11097-69-1	Aroclor-1254	23	U	23	25	51	77
11096-82-5	Aroclor-1260	12	U	12	25	51	51
37324-23-5	Aroclor-1262	21	U	21	25	51	72
11100-14-4	Aroclor-1268	28	U	28	25	51	93

CT LABORATORIES
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1D-2

PCB ORGANICS ANALYSIS

Sample Description

DLASS-022-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82399
Sample wt/vol:	10.04 (g/L)	CTL Sample ID:	870195
% Solids:	98.1	Date Received:	11/11/2010
Conc. Extract Vol:	10.00 (mL)	Date/Time Prepared:	12/03/2010 / 15:00
Analytical Method:	EPA 8082A	Analytical Prep Batch #	35630
Analytical Run #:	72286	Dilution Factor:	1.00
Date & Time Analyzed:	12/08/2010 / 15:47		

Cleanup Date/Time/Type: , 12/07/2010 16:00 (Sulfur) , 12/07/2010 15:00 (Acid) ,

TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*): /

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
12674-11-2	Aroclor-1016	10	U	10	25	51	51
11104-28-2	Aroclor-1221	20	U	20	25	51	67
11141-16-5	Aroclor-1232	27	U	27	25	51	91
53469-21-9	Aroclor-1242	29	U	29	25	51	97
12672-29-6	Aroclor-1248	29	U	29	25	51	98
11097-69-1	Aroclor-1254	23	U	23	25	51	77
11096-82-5	Aroclor-1260	12	U	12	25	51	51
37324-23-5	Aroclor-1262	21	U	21	25	51	72
11100-14-4	Aroclor-1268	28	U	28	25	51	93

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1D-2

PCB ORGANICS ANALYSIS

Sample Description

DLASS-014-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82399
Sample wt/vol:	9.95 (g/L)	CTL Sample ID:	870201
% Solids:	96.9	Date Received:	11/11/2010
Conc. Extract Vol:	10.0 (mL)	Date/Time Prepared:	11/22/2010 / 11:30
Analytical Method:	EPA 8082A	Analytical Prep Batch #	35516
Analytical Run #:	72009	Dilution Factor:	1.00
Date & Time Analyzed:	11/24/2010 / 13:55		

Cleanup Date/Time/Type: , 11/24/2010 10:30 (Sulfur) , 11/24/2010 09:30 (Acid) ,

TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*): /

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
12674-11-2	Aroclor-1016	10	U	10	26	52	52
11104-28-2	Aroclor-1221	21	U	21	26	52	68
11141-16-5	Aroclor-1232	28	U	28	26	52	93
53469-21-9	Aroclor-1242	30	U	30	26	52	100
12672-29-6	Aroclor-1248	30	U	30	26	52	100
11097-69-1	Aroclor-1254	24	U	24	26	52	79
11096-82-5	Aroclor-1260	12	U	12	26	52	52
37324-23-5	Aroclor-1262	22	U	22	26	52	74
11100-14-4	Aroclor-1268	29	U	29	26	52	95

CT LABORATORIES
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1D-2

PCB ORGANICS ANALYSIS

Sample Description

DLASS-014-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82399
Sample wt/vol:	9.95 (g/L)	CTL Sample ID:	870203
% Solids:	96.7	Date Received:	11/11/2010
Conc. Extract Vol:	10.0 (mL)	Date/Time Prepared:	11/22/2010 / 11:30
Analytical Method:	EPA 8082A	Analytical Prep Batch #	35516
Analytical Run #:	72009	Dilution Factor:	1.00
Date & Time Analyzed:	11/24/2010 / 14:57		

Cleanup Date/Time/Type: , 11/24/2010 10:30 (Sulfur) , 11/24/2010 09:30 (Acid) ,

TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*): /

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
12674-11-2	Aroclor-1016	10	U	10	26	52	52
11104-28-2	Aroclor-1221	21	U	21	26	52	69
11141-16-5	Aroclor-1232	28	U	28	26	52	94
53469-21-9	Aroclor-1242	30	U	30	26	52	100
12672-29-6	Aroclor-1248	30	U	30	26	52	100
11097-69-1	Aroclor-1254	24	U	24	26	52	79
11096-82-5	Aroclor-1260	12	U	12	26	52	52
37324-23-5	Aroclor-1262	22	U	22	26	52	74
11100-14-4	Aroclor-1268	29	U	29	26	52	96

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1D-2

PCB ORGANICS ANALYSIS

Sample Description

DLASS-002-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82399
Sample wt/vol:	10.10 (g/L)	CTL Sample ID:	870212
% Solids:	98.5	Date Received:	11/11/2010
Conc. Extract Vol:	10.00 (mL)	Date/Time Prepared:	12/03/2010 / 15:00
Analytical Method:	EPA 8082A	Analytical Prep Batch #	35630
Analytical Run #:	72286	Dilution Factor:	1.00
Date & Time Analyzed:	12/08/2010 / 16:27		

Cleanup Date/Time/Type: , 12/07/2010 16:00 (Sulfur) , 12/07/2010 15:00 (Acid) ,

TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*): /

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
12674-11-2	Aroclor-1016	10	U	10	25	50	50
11104-28-2	Aroclor-1221	20	U	20	25	50	66
11141-16-5	Aroclor-1232	27	U	27	25	50	90
53469-21-9	Aroclor-1242	29	U	29	25	50	96
12672-29-6	Aroclor-1248	29	U	29	25	50	98
11097-69-1	Aroclor-1254	23	U	23	25	50	76
11096-82-5	Aroclor-1260	12	U	12	25	50	50
37324-23-5	Aroclor-1262	21	U	21	25	50	71
11100-14-4	Aroclor-1268	28	U	28	25	50	92

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Sample Description: **METHOD BLANK**

1D-4

PCB ORGANICS ANALYSIS (MB)

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:		SDG No.:	82399
Sample wt/vol:	10.00 (g/L)	CTL Sample ID:	874139
% Solids:		Date Received:	11/11/2010
Conc. Extract Vol:	10.0 (mL)	Date/Time Prepared:	11/22/2010 / 11:30
Analytical Method:	EPA 8082A	Analytical Prep Batch #	35516
Analytical Run #:	72009	Dilution Factor:	1.00

Cleanup Date/Time/Type: , 11/24/2010 10:30 (Sulfur) , 11/24/2010 09:30 (Acid) ,

TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*): /

Concentration Units: ug/kg

CAS NO.	Analyte	Analysis Date/Time	Concentration	Qualifiers	LOD/DL	Control Limit	RL
12674-11-2	Aroclor-1016	11/24/2010 11:32	25	U	25	25	
11104-28-2	Aroclor-1221	11/24/2010 11:32	25	U	25	25	
11141-16-5	Aroclor-1232	11/24/2010 11:32	25	U	25	25	
53469-21-9	Aroclor-1242	11/24/2010 11:32	25	U	25	25	
12672-29-6	Aroclor-1248	11/24/2010 11:32	25	U	25	25	
11097-69-1	Aroclor-1254	11/24/2010 11:32	25	U	25	25	
11096-82-5	Aroclor-1260	11/24/2010 11:32	25	U	25	25	
37324-23-5	Aroclor-1262	11/24/2010 11:32	25	U	25	25	
11100-14-4	Aroclor-1268	11/24/2010 11:32	25	U	25	25	

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Sample Description: **METHOD BLANK**

1D-4

PCB ORGANICS ANALYSIS (MB)

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:		SDG No.:	82399
Sample wt/vol:	10.00 (g/L)	CTL Sample ID:	877486
% Solids:		Date Received:	11/11/2010
Conc. Extract Vol:	10.00 (mL)	Date/Time Prepared:	12/03/2010 / 15:00
Analytical Method:	EPA 8082A	Analytical Prep Batch #	35630
Analytical Run #:	72286	Dilution Factor:	1.00

Cleanup Date/Time/Type: , 12/07/201016:00 (Sulfur) , 12/07/201015:00 (Acid) ,

TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*): /

Concentration Units: ug/kg

CAS NO.	Analyte	Analysis Date/Time	Concentration	Qualifiers	LOD/DL	Control Limit	RL
12674-11-2	Aroclor-1016	12/08/2010 15:00	25	U	25	25	
11104-28-2	Aroclor-1221	12/08/2010 15:00	25	U	25	25	
11141-16-5	Aroclor-1232	12/08/2010 15:00	25	U	25	25	
53469-21-9	Aroclor-1242	12/08/2010 15:00	25	U	25	25	
12672-29-6	Aroclor-1248	12/08/2010 15:00	25	U	25	25	
11097-69-1	Aroclor-1254	12/08/2010 15:00	25	U	25	25	
11096-82-5	Aroclor-1260	12/08/2010 15:00	25	U	25	25	
37324-23-5	Aroclor-1262	12/08/2010 15:00	25	U	25	25	
11100-14-4	Aroclor-1268	12/08/2010 15:00	25	U	25	25	

CT LABORATORIES
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2F-2

SOIL PCB SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Analytical Method: EPA 8082A SDG: 82399

Analytical Run #: 72009

GC Column(1): Phenomenex ZB-5 ID: 0.32 (mm) GC Column(2): Phenomenex ZB-1701 ID: 0.32 (mm)

CTLab #	870201				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: DCBP	100	76	60	125	

CTLab #	870203				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: DCBP	100	77	60	125	

CTLab #	871184				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: DCBP	100	74	60	125	

CTLab #	871186				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: DCBP	100	79	60	125	

CTLab #	871197				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: DCBP	100	76	60	125	

CTLab #	871198				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: DCBP	100	66	60	125	

CTLab #	874137	Sample Type:	Matrix Spike		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: DCBP	100	75.5	60	125	

CTLab #	874138	Sample Type:	Matrix Spike Duplicate		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: DCBP	100	83.9	60	125	

CTLab #	874139	Sample Type:	Method Blank		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: DCBP	100	89.0	60	125	

CTLab #	874140	Sample Type:	Lab Control Spike		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: DCBP	100	96.0	60	125	

CT LABORATORIES
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2F-2

SOIL PCB SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Analytical Method: EPA 8082A SDG: 82399

Analytical Run #: 72286

GC Column(1): Phenomenex ZB-5 ID: 0.32 (mm) GC Column(2): Phenomenex ZB-1701 ID: 0.32 (mm)

CTLab #	870189				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: DCBP	100	94	60	125	

CTLab #	870194				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: DCBP	100	91	60	125	

CTLab #	870195				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: DCBP	100	89	60	125	

CTLab #	870212				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: DCBP	100	91	60	125	

CTLab #	877484	Sample Type:	Matrix Spike		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: DCBP	100	82.9	60	125	

CTLab #	877485	Sample Type:	Matrix Spike Duplicate		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: DCBP	100	95.1	60	125	

CTLab #	877486	Sample Type:	Method Blank		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: DCBP	100	83.1	60	125	

CTLab #	877487	Sample Type:	Lab Control Spike		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: DCBP	100	97.2	60	125	

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3F

Sample Description

SOIL PCB MATRIX SPIKE RECOVERY

DLASS-002-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOIL SDG No.: 82399

Analytical Method: EPA 8082A Concentration Units: ug/kg

Analytical Run #: 72286 Sample No.: 877484 Parent Sample No.: 870189

Analytical Prep Batch #: 35630 Analytical Preparation Date/Time: 12/03/2010 15:00

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
Aroclor-1016	12/08/2010	16:58	40-140	440	0	511	86
Aroclor-1260	12/08/2010	16:58	60-130	432	0	511	85

Spike Recovery: 0 out of 2 outside QC limits

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3F

Sample Description

SOIL PCB MATRIX SPIKE RECOVERY

DLASS-014-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOIL SDG No.: 82399

Analytical Method: EPA 8082A Concentration Units: ug/kg

Analytical Run #: 72009 Sample No.: 874137 Parent Sample No.: 870201

Analytical Prep Batch #: 35516 Analytical Preparation Date/Time: 11/22/2010 11:30

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
Aroclor-1016	11/24/2010	14:10	40-140	399	0	516	77
Aroclor-1260	11/24/2010	14:10	60-130	407	0	516	79

Spike Recovery: 0 out of 2 outside QC limits

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3F

Sample Description

SOIL PCB MATRIX SPIKE DUPLICATE RECOVERY

DLASS-002-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOIL SDG No.: 82399

Analytical Method: EPA 8082A Concentration Units: ug/kg

Analytical Run #: 72286 Sample No.: 877485 Parent Sample No.: 877484

Analytical Prep Batch #: 35630 Analytical Preparation Date/Time: 12/03/2010 15:00

Analyte	Analysis Date/Time		Spike Result	Spike Amount	%R	%RPD	Control Limits (%R)	Control Limits (%RPD)
Aroclor-1016	12/08/2010	17:14	528	511	103	18	40-140	30
Aroclor-1260	12/08/2010	17:14	518	511	101	18	60-130	30

RPD or Spike Recovery: 0 out of 2 outside QC limits

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3F

Sample Description

SOIL PCB MATRIX SPIKE DUPLICATE RECOVERY

DLASS-014-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOIL SDG No.: 82399

Analytical Method: EPA 8082A Concentration Units: ug/kg

Analytical Run #: 72009 Sample No.: 874138 Parent Sample No.: 874137

Analytical Prep Batch #: 35516 Analytical Preparation Date/Time: 11/22/2010 11:30

Analyte	Analysis Date/Time		Spike Result	Spike Amount	%R	%RPD	Control Limits (%R)	Control Limits (%RPD)
Aroclor-1016	11/24/2010	14:26	445	514	87	11	40-140	30
Aroclor-1260	11/24/2010	14:26	456	514	89	12	60-130	30

RPD or Spike Recovery: 0 out of 2 outside QC limits

CT LABORATORIES
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3F

Sample Description

LCS

SOIL PCB LAB CONTROL SAMPLE

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Sample No.: 874140 SDG No.: 82399

Analytical Method: EPA 8082A Concentration Units: ug/kg

Analytical Run #: 72009 Sample No.: 874140 Parent Sample No.: 0

Analytical Prep Batch #: 35516 Analytical Preparation Date/Time: 11/22/2010 11:30

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
Aroclor-1016	11/24/2010	11:48	40-140	472		500	94
Aroclor-1260	11/24/2010	11:48	60-130	474		500	95

Spike Recovery: 0 out of 2 outside limits

CT LABORATORIES
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3F

Sample Description

LCS

SOIL PCB LAB CONTROL SAMPLE

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Sample No.: 877487 SDG No.: 82399

Analytical Method: EPA 8082A Concentration Units: ug/kg

Analytical Run #: 72286 Sample No.: 877487 Parent Sample No.: 0

Analytical Prep Batch #: 35630 Analytical Preparation Date/Time: 12/03/2010 15:00

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
Aroclor-1016	12/08/2010	15:15	40-140	495		500	99
Aroclor-1260	12/08/2010	15:15	60-130	483		500	97

Spike Recovery: 0 out of 2 outside limits

CT Laboratories

4C-2

PCB METHOD BLANK SUMMARY

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Sample ID:	874139	SDG No.:	82399
Matrix:	SOLID	Date Extracted:	11/22/2010
Date Analyzed:	11/24/2010	Time Analyzed:	11:32
Analytical Method:	EPA 8082A	Extraction Method:	SW3545
Analytical Run #:	72009	Extraction Batch #:	35516

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

SEQUENCE	SAMPLE DESCRIPTION	SAMPLE ID	DATE/TIME ANALYZED
1	DLASS-014-0001-SO	870201	11/24/2010 13:55
2	DLASS-014-0003-SO	870203	11/24/2010 14:57
3	DLASS-014-0001-SOMSS	874137	11/24/2010 14:10
4	DLASS-014-0001-SOMSDS	874138	11/24/2010 14:26
5	MBS	874139	11/24/2010 11:32
6	LCSS	874140	11/24/2010 11:48

CT Laboratories

4C-2

PCB METHOD BLANK SUMMARY

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Sample ID:	877486	SDG No.:	82399
Matrix:	SOLID	Date Extracted:	12/03/2010
Date Analyzed:	12/08/2010	Time Analyzed:	15:00
Analytical Method:	EPA 8082A	Extraction Method:	SW3545
Analytical Run #:	72286	Extraction Batch #:	35630

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

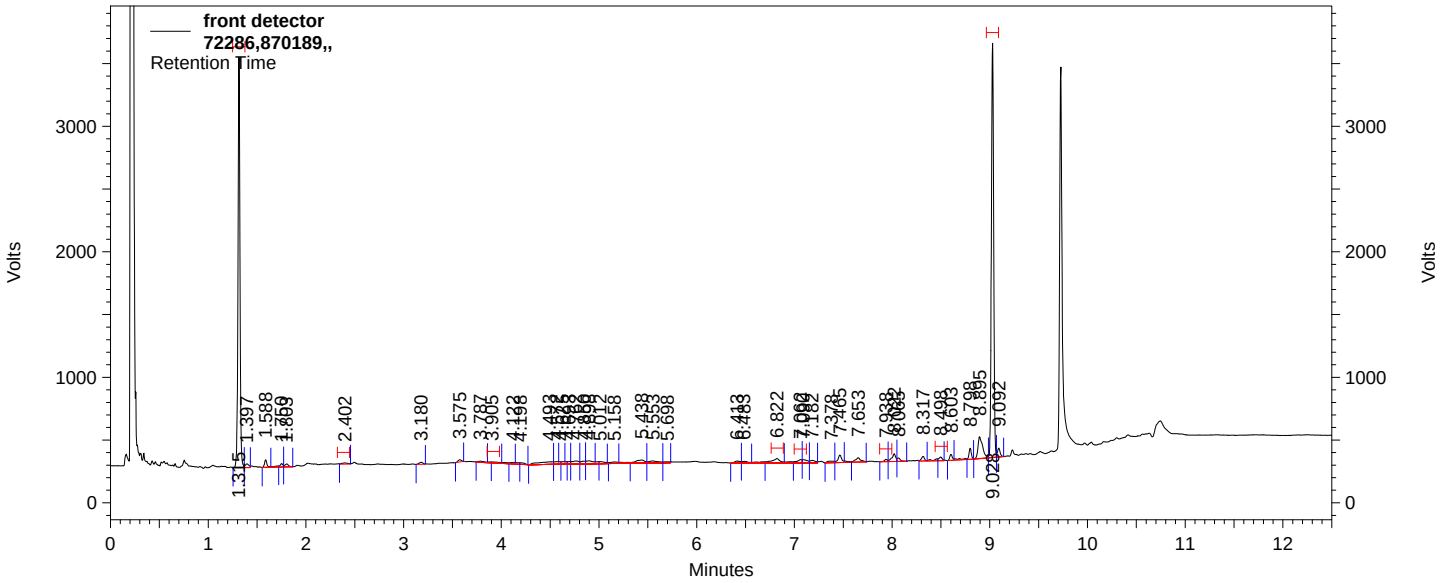
SEQUENCE	SAMPLE DESCRIPTION	SAMPLE ID	DATE/TIME ANALYZED
1	DLASS-002-0001-SO	870189	12/08/2010 16:42
2	DLASS-022-0001-SO	870194	12/08/2010 15:31
3	DLASS-022-0003-SO	870195	12/08/2010 15:47
4	DLASS-002-0003-SO	870212	12/08/2010 16:27
5	DLASS-002-0001-SOMSS	877484	12/08/2010 16:58
6	DLASS-002-0001-SOMSDS	877485	12/08/2010 17:14
7	MBS	877486	12/08/2010 15:00
8	LCSS	877487	12/08/2010 15:15

POYCHLORINATED BIPHENYL
SAMPLE DATA
DOCUMENTS

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\120810pcb\028.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\120810pcb.met
User: jjy
Sample ID: 72286,870189,,
Acquired: Dec 08,2010 16:42:49 JJY
Printed: Dec 09,2010 09:00:25 12/09/10

Data Summary: {Data Description}



front detector Results

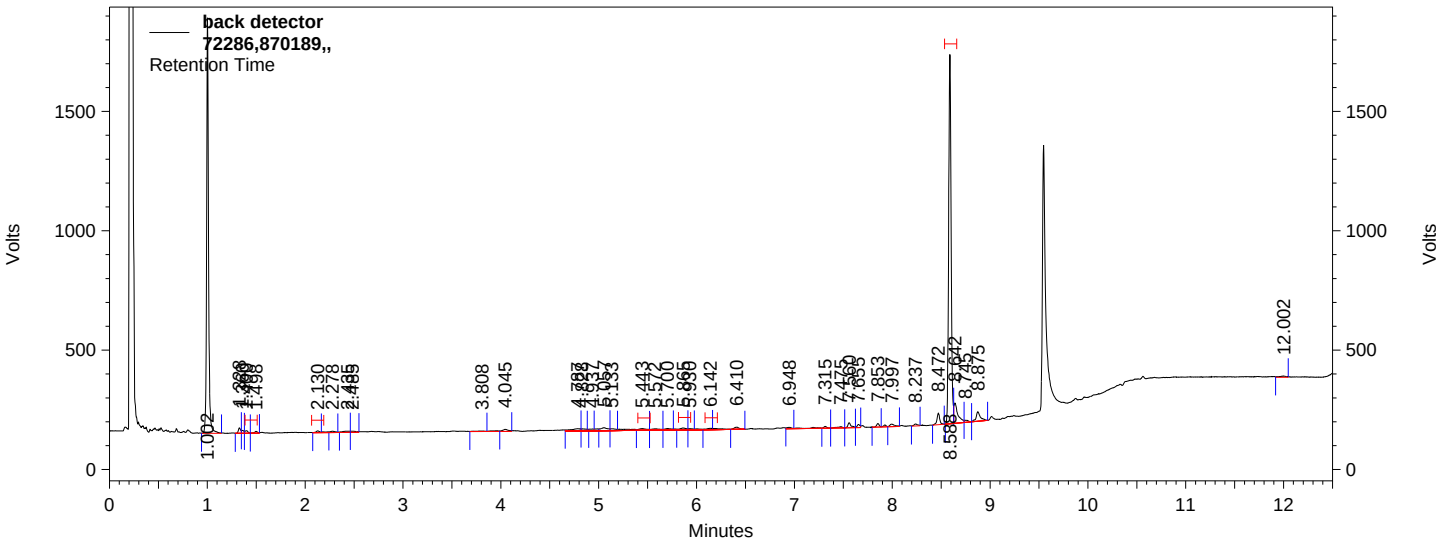
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.315	35014625	93.511
Aroclor 1016 #1			0.000 BDL
Aroclor 1016 #2	2.402	335834	0.000
Aroclor 1016 #3			0.000 BDL
Aroclor 1016 #4			0.000 BDL
Aroclor 1016 #5	3.905	361932	0.000
Aroclor 1260 #1			0.000 BDL
Aroclor 1260 #2	6.822	1547728	0.000
Aroclor 1260 #3	7.062	702274	0.000
Aroclor 1260 #4	7.938	281860	0.000
Aroclor 1260 #5	8.498	544458	0.000
SURRDCBPCB	9.028	41869966	93.524
Aroclor 1016		697766	0.000
Aroclor 1260		3076320	0.000

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\120810pcb\028.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\120810pcb.met
User: jjy
Sample ID: 72286,870189,,
Acquired: Dec 08,2010 16:42:49
Printed: Dec 09,2010 09:00:25

JJY
12/09/10

Data Summary: {Data Description}



back detector Results

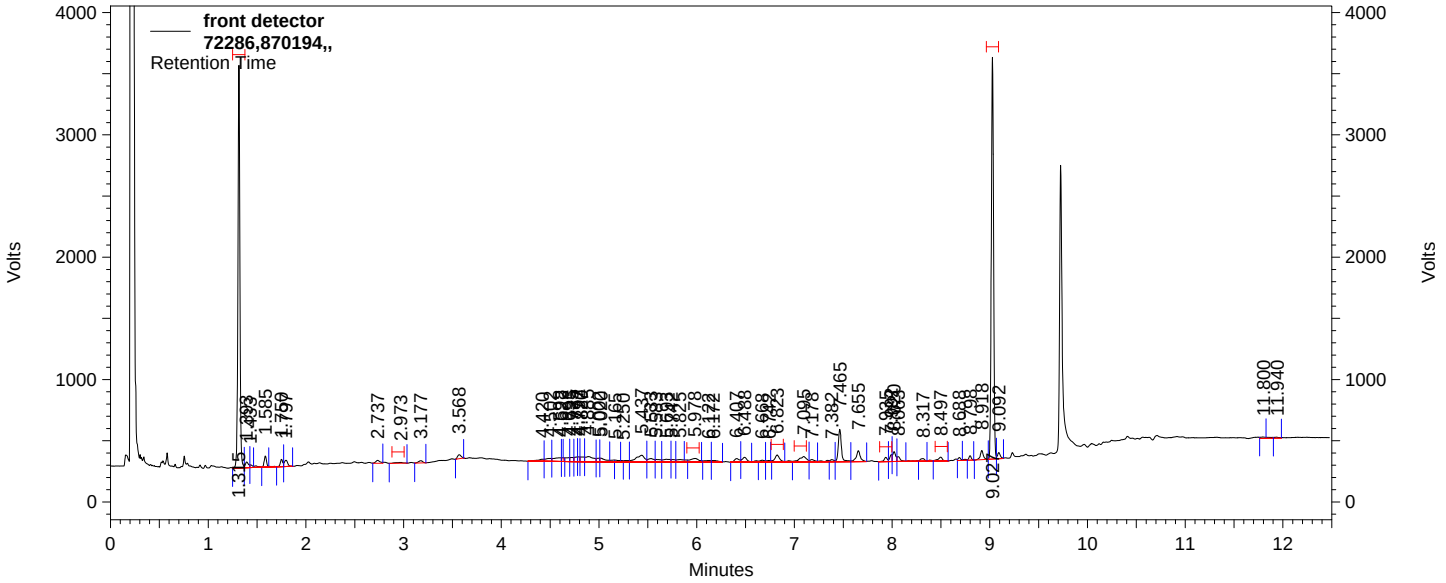
Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.002	18116287	91.741
Aroclor 1016 #1	1.400	180039	0.000
Aroclor 1016 #2			0.000 BDL
Aroclor 1016 #3	2.130	150331	0.000
Aroclor 1016 #4			0.000 BDL
Aroclor 1016 #5			0.000 BDL
Aroclor 1260 #1	5.443	303228	0.000
Aroclor 1260 #2	5.865	282330	0.000
Aroclor 1260 #3			0.000 BDL
Aroclor 1260 #4	6.142	170327	0.000
Aroclor 1260 #5			0.000 BDL
SURRDCBPCB	8.588	20743036	94.591
Aroclor 1016		330370	0.000
Aroclor 1260		755885	0.000

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\120810pcb\025.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\120810pcb.met
User: jjy
Sample ID: 72286,870194,,
Acquired: Dec 08,2010 15:31:21
Printed: Dec 08,2010 15:44:13

JJY
12/08/10

Data Summary: {Data Description}



front detector Results

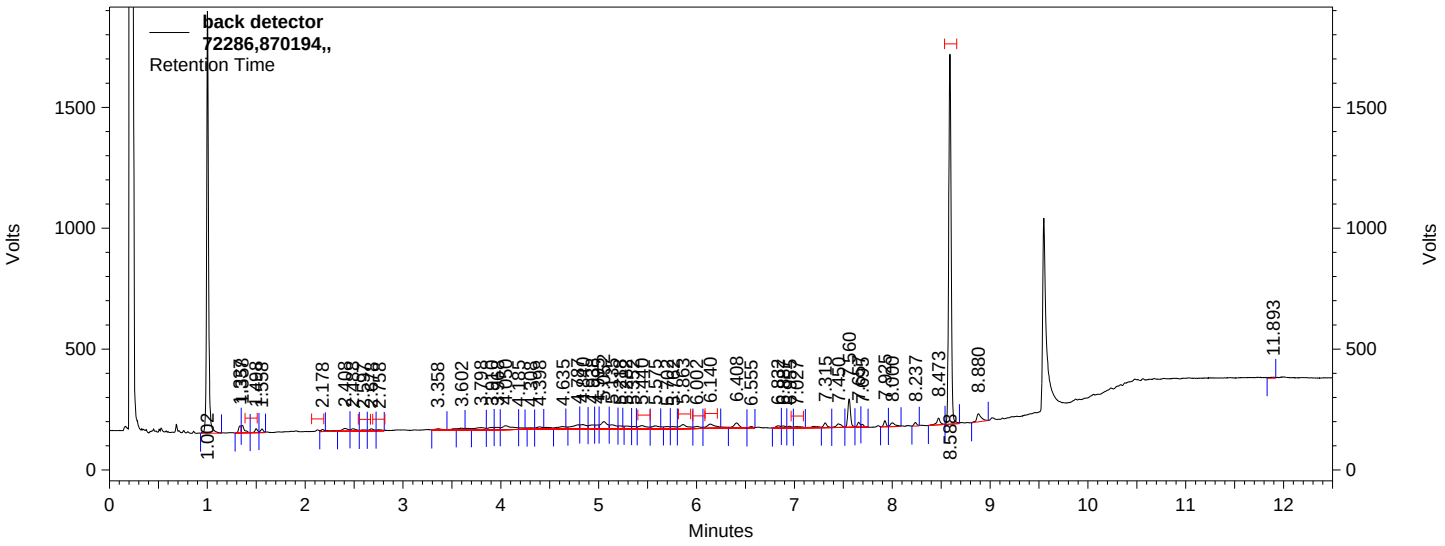
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.315	35289437	94.276
Aroclor 1016 #1			0.000 BDL
Aroclor 1016 #2			0.000 BDL
Aroclor 1016 #3	2.973	300996	0.000
Aroclor 1016 #4			0.000 BDL
Aroclor 1016 #5			0.000 BDL
Aroclor 1260 #1	5.978	1347084	0.000
Aroclor 1260 #2	6.823	1506908	0.000
Aroclor 1260 #3	7.095	1681702	0.000
Aroclor 1260 #4	7.935	564527	0.000
Aroclor 1260 #5	8.497	832042	0.000
SURRDCBPCB	9.027	40926058	91.320
Aroclor 1016		300996	0.000
Aroclor 1260		5932263	0.000

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\120810pcb\025.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\120810pcb.met
User: jjy
Sample ID: 72286,870194,,
Acquired: Dec 08,2010 15:31:21
Printed: Dec 08,2010 15:44:13

JJY
12/08/10

Data Summary: {Data Description}



back detector Results

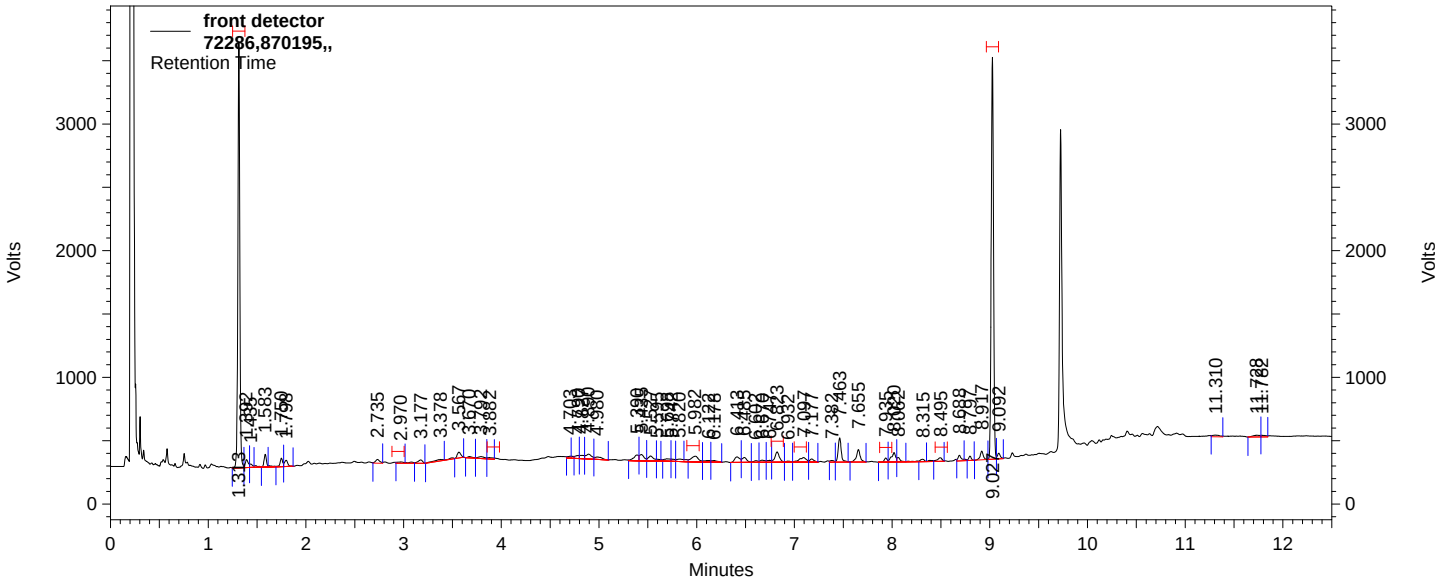
Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.002	18114137	91.730
Aroclor 1016 #1	1.498	264459	0.000
Aroclor 1016 #2			0.000 BDL
Aroclor 1016 #3	2.178	148684	0.000
Aroclor 1016 #4	2.597	137992	0.000
Aroclor 1016 #5	2.758	121449	0.000
Aroclor 1260 #1	5.440	579375	0.000
Aroclor 1260 #2	5.863	696152	0.000
Aroclor 1260 #3	6.002	310558	0.000
Aroclor 1260 #4	6.140	849076	0.004
Aroclor 1260 #5	7.027	205384	0.000
SURRDCBPCB	8.588	20422727	93.056
Aroclor 1016		672584	0.000
Aroclor 1260		2640545	0.004

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\120810pcb\026.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\120810pcb.met
User: jjy
Sample ID: 72286,870195,,
Acquired: Dec 08,2010 15:47:03
Printed: Dec 08,2010 16:22:32

JJY
12/08/10

Data Summary: {Data Description}



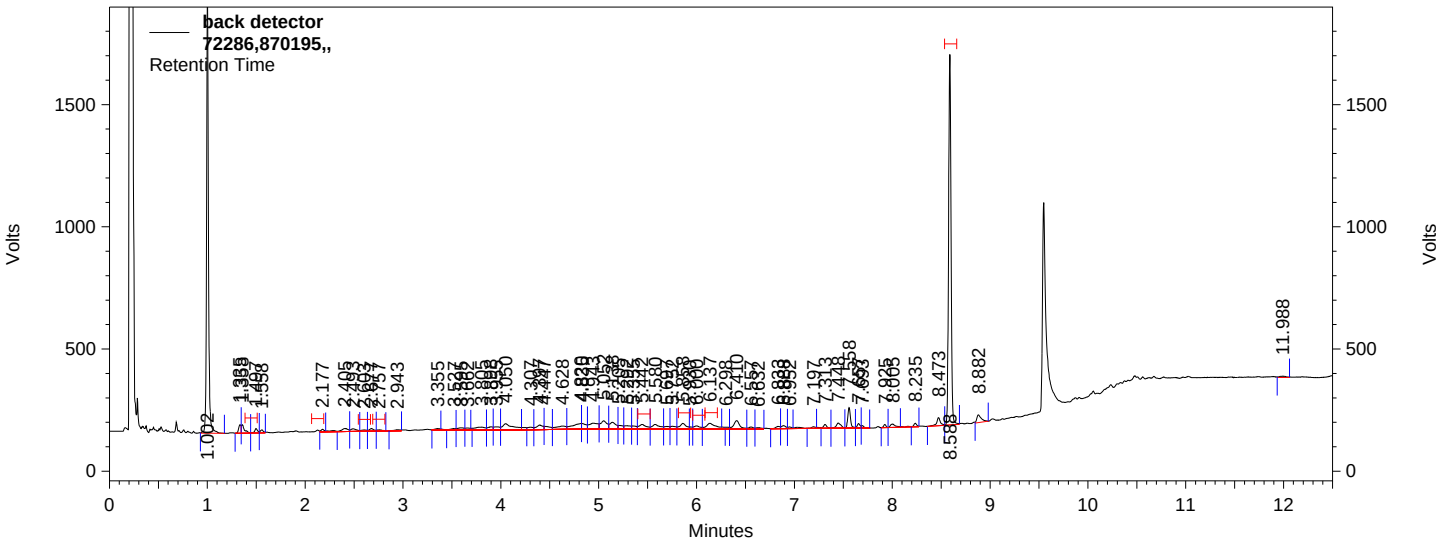
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.313	35587211	95.105
Aroclor 1016 #1			0.000 BDL
Aroclor 1016 #2			0.000 BDL
Aroclor 1016 #3	2.970	361102	0.000
Aroclor 1016 #4			0.000 BDL
Aroclor 1016 #5	3.882	339309	0.000
Aroclor 1260 #1	5.982	1733095	0.000
Aroclor 1260 #2	6.823	2073237	0.000
Aroclor 1260 #3	7.097	1473663	0.000
Aroclor 1260 #4	7.935	519458	0.000
Aroclor 1260 #5	8.495	758480	0.000
SURRDCBPCB	9.027	40030192	89.228
Aroclor 1016		700411	0.000
Aroclor 1260		6557933	0.000

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\120810pcb\026.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\120810pcb.met
User: jjy
Sample ID: 72286,870195,,
Acquired: Dec 08,2010 15:47:03 JJY
Printed: Dec 08,2010 16:22:32 12/08/10

Data Summary: {Data Description}



back detector Results

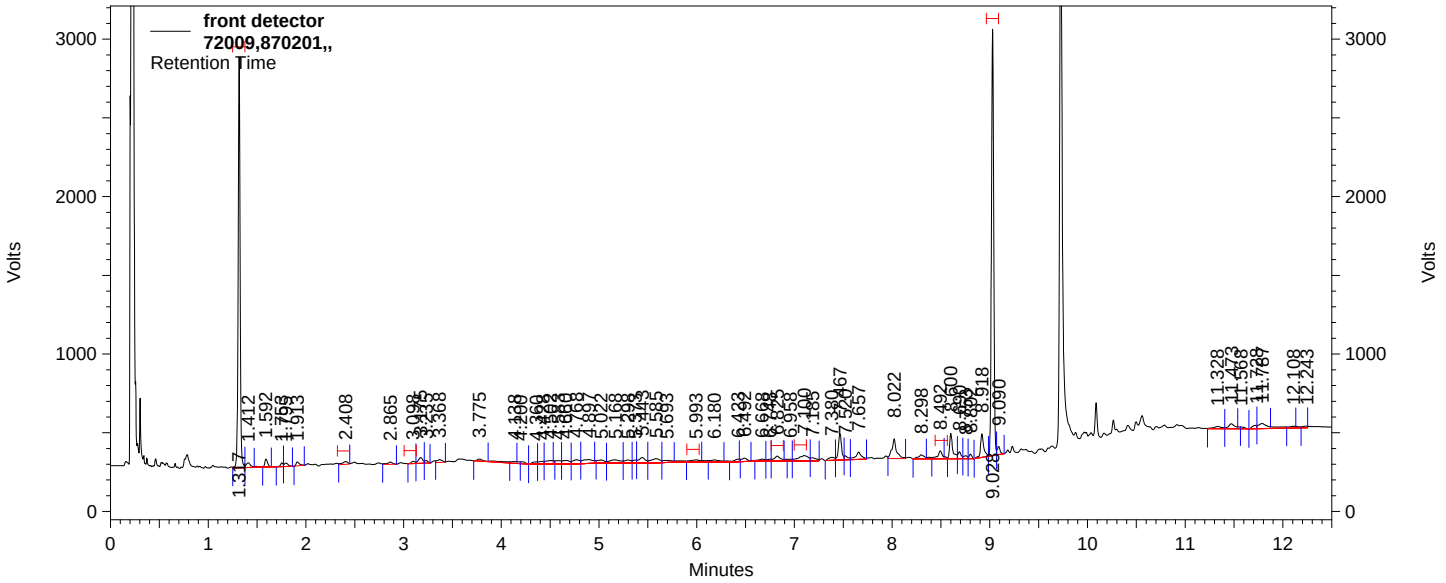
Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.002	18497748	93.728
Aroclor 1016 #1	1.497	305585	0.000
Aroclor 1016 #2			0.000 BDL
Aroclor 1016 #3	2.177	174967	0.000
Aroclor 1016 #4	2.603	148474	0.000
Aroclor 1016 #5	2.757	141127	0.000
Aroclor 1260 #1	5.442	774812	0.000
Aroclor 1260 #2	5.858	800173	0.000
Aroclor 1260 #3	6.000	419970	0.000
Aroclor 1260 #4	6.137	1143949	0.007
Aroclor 1260 #5			0.000 BDL
SURRDCBPCB	8.588	20155291	91.774
Aroclor 1016		770153	0.000
Aroclor 1260		3138904	0.007

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\112410pcb\008.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\112410pcb.met
User: jjy
Sample ID: 72009,870201,,
Acquired: Nov 24,2010 13:55:03
Printed: Nov 24,2010 17:06:50

JJY
11/24/10

Data Summary: {Data Description}



front detector Results

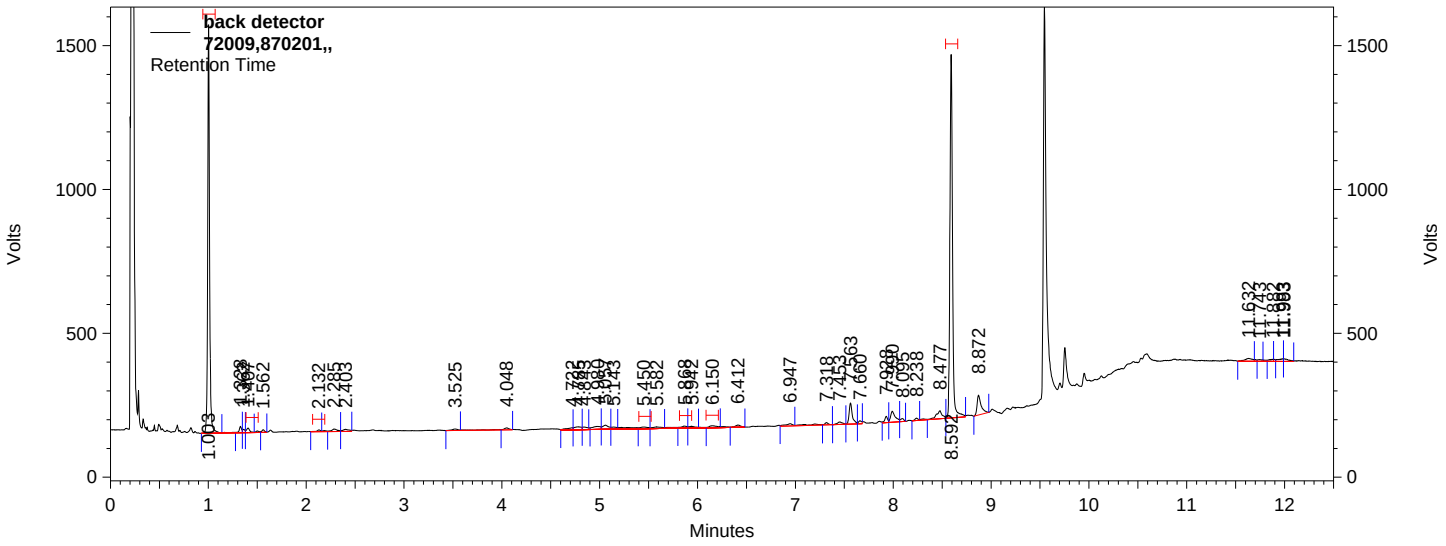
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.317	27922029	73.776
Aroclor 1016 #1			0.000 BDL
Aroclor 1016 #2	2.408	540360	0.000
Aroclor 1016 #3			0.000 BDL
Aroclor 1016 #4	3.098	298916	0.000
Aroclor 1016 #5			0.000 BDL
Aroclor 1260 #1	5.993	805855	0.000
Aroclor 1260 #2	6.825	1141666	0.000
Aroclor 1260 #3	7.100	1816917	0.000
Aroclor 1260 #4			0.000 BDL
Aroclor 1260 #5	8.492	1212970	0.000
SURRDCBPCB	9.028	34174751	75.553
Aroclor 1016		839276	0.000
Aroclor 1260		4977408	0.000

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\112410pcb\008.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\112410pcb.met
User: jjy
Sample ID: 72009,870201,,
Acquired: Nov 24,2010 13:55:03
Printed: Nov 24,2010 17:06:50

JJY
11/24/10

Data Summary: {Data Description}



back detector Results

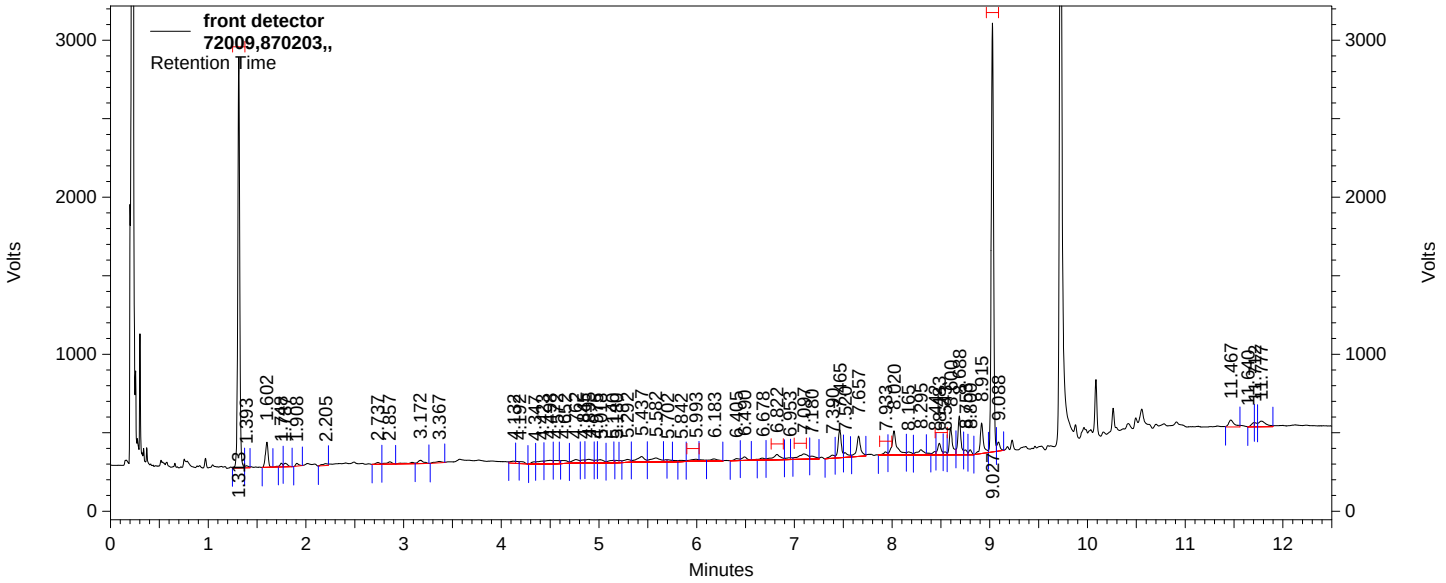
Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.003	14447410	72.627
Aroclor 1016 #1	1.407	286374	0.000
Aroclor 1016 #2			0.000 BDL
Aroclor 1016 #3	2.132	128478	0.000
Aroclor 1016 #4			0.000 BDL
Aroclor 1016 #5			0.000 BDL
Aroclor 1260 #1	5.450	241769	0.000
Aroclor 1260 #2	5.868	206645	0.000
Aroclor 1260 #3			0.000 BDL
Aroclor 1260 #4	6.150	267090	0.000
Aroclor 1260 #5			0.000 BDL
SURRDCBPCB	8.592	17889389	80.914
Aroclor 1016		414852	0.000
Aroclor 1260		715504	0.000

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\112410pcb\012.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\112410pcb.met
User: jjy
Sample ID: 72009,870203,,
Acquired: Nov 24,2010 14:57:49
Printed: Nov 24,2010 17:07:27

JJY
11/24/10

Data Summary: {Data Description}



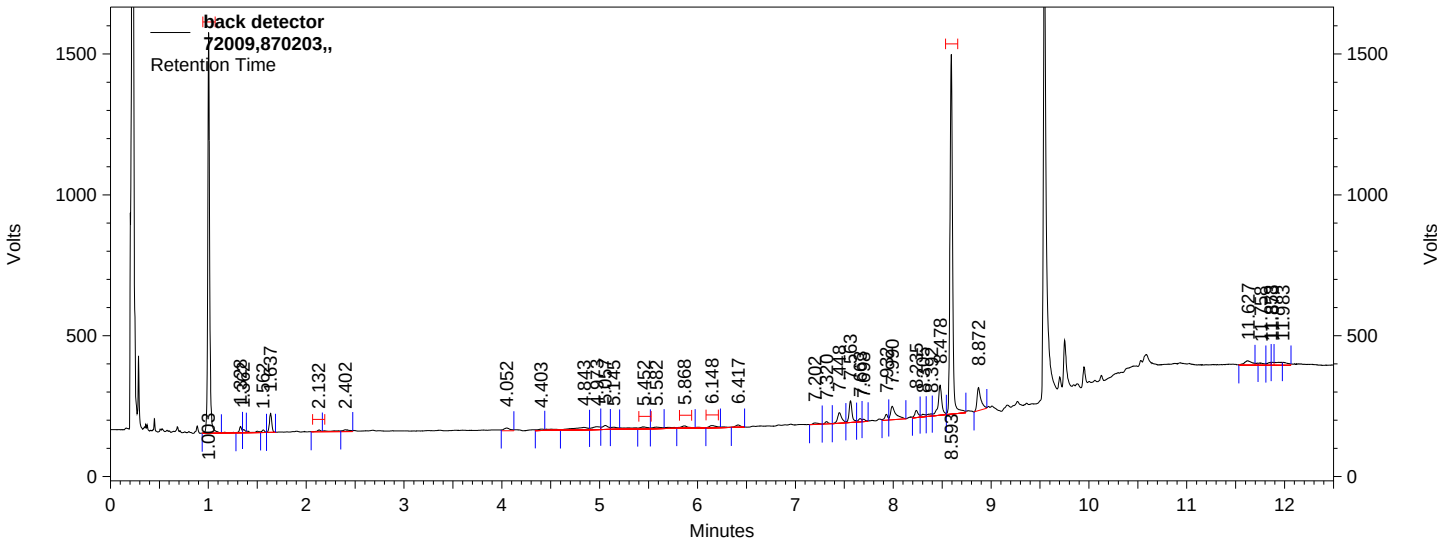
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.313	27952264	73.860
Aroclor 1016 #1			0.000 BDL
Aroclor 1016 #2			0.000 BDL
Aroclor 1016 #3			0.000 BDL
Aroclor 1016 #4			0.000 BDL
Aroclor 1016 #5			0.000 BDL
Aroclor 1260 #1	5.993	604036	0.000
Aroclor 1260 #2	6.822	1453197	0.000
Aroclor 1260 #3	7.097	1752550	0.000
Aroclor 1260 #4	7.933	414522	0.000
Aroclor 1260 #5	8.483	1384138	0.000
SURRDCBPCB	9.027	34766463	76.935
Aroclor 1016		0	0.000
Aroclor 1260		5608443	0.000

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\112410pcb\012.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\112410pcb.met
User: jjy
Sample ID: 72009,870203,,
Acquired: Nov 24,2010 14:57:49 JJY
Printed: Nov 24,2010 17:07:27 11/24/10

Data Summary: {Data Description}



back detector Results

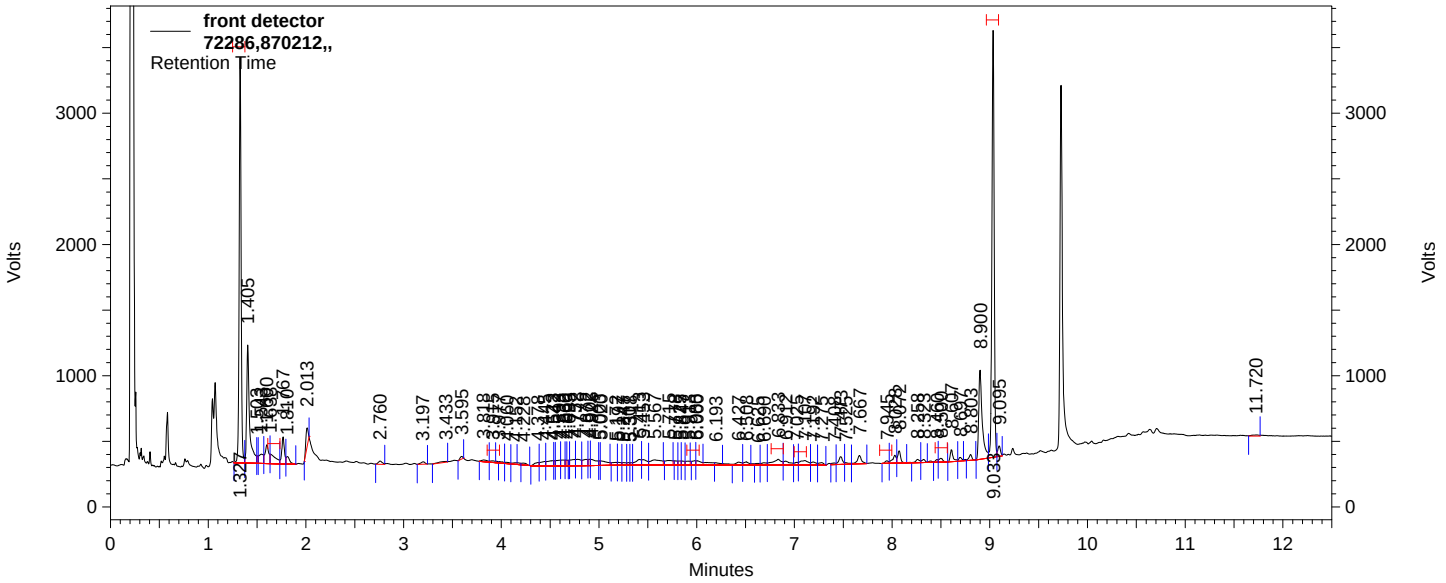
Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.003	14385176	72.303
Aroclor 1016 #1			0.000 BDL
Aroclor 1016 #2			0.000 BDL
Aroclor 1016 #3	2.132	142213	0.000
Aroclor 1016 #4			0.000 BDL
Aroclor 1016 #5			0.000 BDL
Aroclor 1260 #1	5.452	283936	0.000
Aroclor 1260 #2	5.868	330529	0.000
Aroclor 1260 #3			0.000 BDL
Aroclor 1260 #4	6.148	295612	0.000
Aroclor 1260 #5			0.000 BDL
SURRDCBPCB	8.593	18100013	81.923
Aroclor 1016		142213	0.000
Aroclor 1260		910077	0.000

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\120810pcb\027.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\120810pcb.met
User: jjy
Sample ID: 72286,870212,,
Acquired: Dec 08,2010 16:27:09
Printed: Dec 09,2010 09:00:21

JJY
12/09/10

Data Summary: {Data Description}



front detector Results

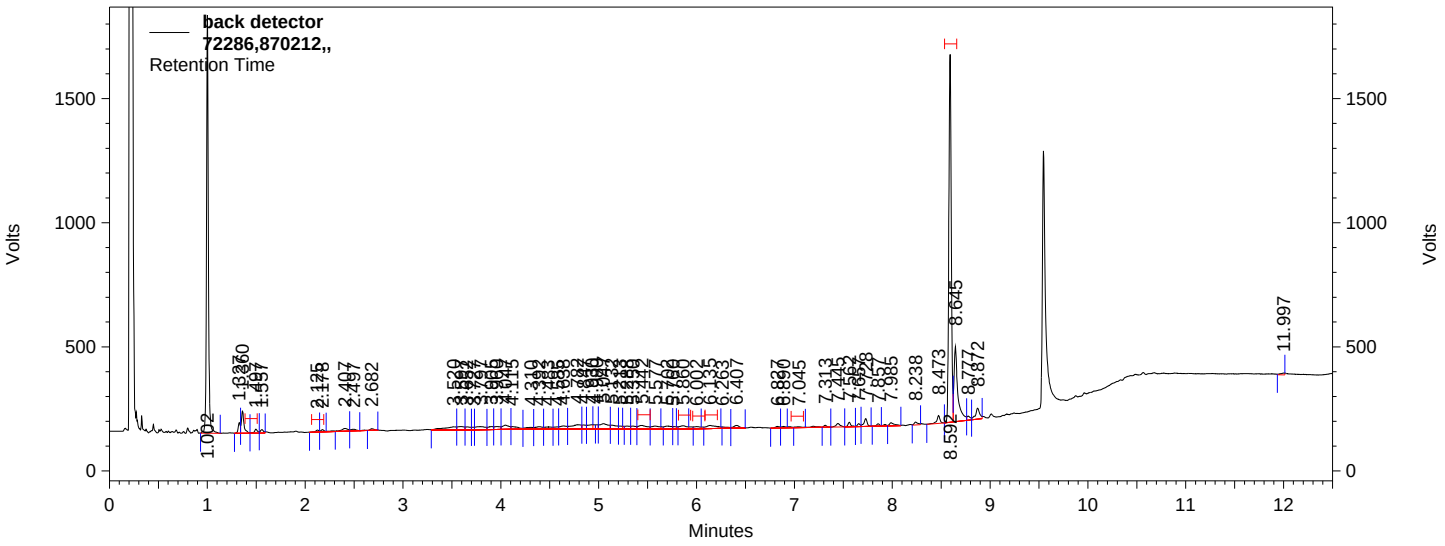
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.327	33190714	88.436
Aroclor 1016 #1	1.638	2218884	0.011
Aroclor 1016 #2			0.000 BDL
Aroclor 1016 #3			0.000 BDL
Aroclor 1016 #4			0.000 BDL
Aroclor 1016 #5	3.915	328482	0.000
Aroclor 1260 #1	5.985	687844	0.000
Aroclor 1260 #2	6.833	2065847	0.000
Aroclor 1260 #3	7.025	401015	0.000
Aroclor 1260 #4	7.945	373883	0.000
Aroclor 1260 #5	8.500	627271	0.000
SURRDCBPCB	9.033	40978617	91.443
Aroclor 1016		2547366	0.011
Aroclor 1260		4155860	0.000

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\120810pcb\027.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\120810pcb.met
User: jjy
Sample ID: 72286,870212,,
Acquired: Dec 08,2010 16:27:09
Printed: Dec 09,2010 09:00:21

JJY
12/09/10

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.002	17187528	86.902
Aroclor 1016 #1	1.497	267703	0.000
Aroclor 1016 #2			0.000 BDL
Aroclor 1016 #3	2.125	143167	0.000
Aroclor 1016 #4			0.000 BDL
Aroclor 1016 #5			0.000 BDL
Aroclor 1260 #1	5.442	635831	0.000
Aroclor 1260 #2	5.860	447943	0.000
Aroclor 1260 #3	6.002	249651	0.000
Aroclor 1260 #4	6.135	685026	0.003
Aroclor 1260 #5	7.045	129427	0.000
SURRDCBPCB	8.592	19771815	89.936
Aroclor 1016		410870	0.000
Aroclor 1260		2147878	0.003

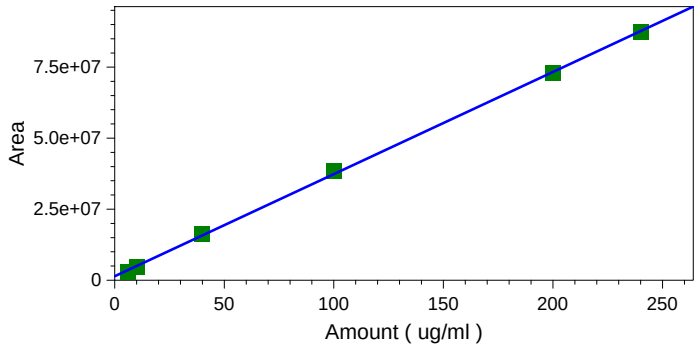
POLYCHLORINATED BIPHENYL INITIAL CALIBRATION DOCUMENTS

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:08 PM
User: jjy
Instrument: Semi 7

SURRTCMXPCB (front detector)
Average RF: 409924. RF StDev: 48563.9 RF %RSD: 11.8470
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 359389.x + 1.40759e+006
Goodness of fit (r^2): 0.999609

Peak: SURRTCMXPCB -- ESTD -- front detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	6	10	40	100	200
Area	2877929	4559783	16434860	38431877	72781121
RF	479654.8333 33333	455978.3	410871.5	384318.77	363905.605
Last Area Residual	1.90878	1.22902	-1.81334	-3.01997	1.40338
Rep StDev					
Rep %RSD					
Rep 1 Area	2877929	4559783	16434860	38431877	72781121
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	240	0	0
Area	87556068		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:08 PM
User: jjy
Instrument: Semi 7

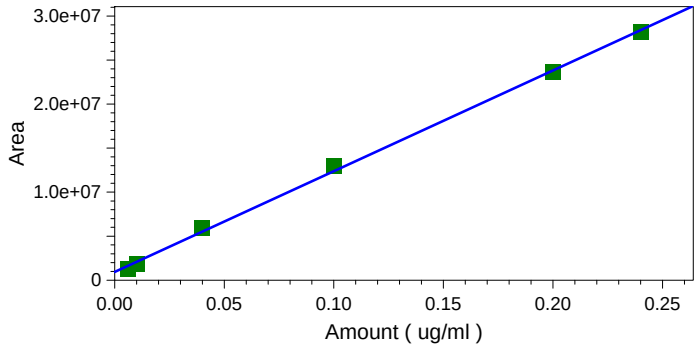
RF	364816.95		
Last Area			
Residual	0.292135	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	87556068		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:18 PM
User: jjy
Instrument: Semi 7

Aroclor 1016 #1 (front detector)
Average RF: 1.50168e+008 RF StDev: 3.66359e+007 RF %RSD: 24.3966
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 1.14417e+008x + 940027.
Goodness of fit (r^2): 0.998771

Peak: Aroclor 1016 #1 -- ESTD -- front detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	1247566	1799568	5884651	13008189	23644667
RF	207927666.666667	179956800	147116275	130081890	118223335
Last Area Residual	0.00331212	0.00248765	-0.0032158	-0.00547523	0.0015624
Rep StDev					
Rep %RSD					
Rep 1 Area	1247566	1799568	5884651	13008189	23644667
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	0.24	0	0
Area	28248069		

Calibration Report

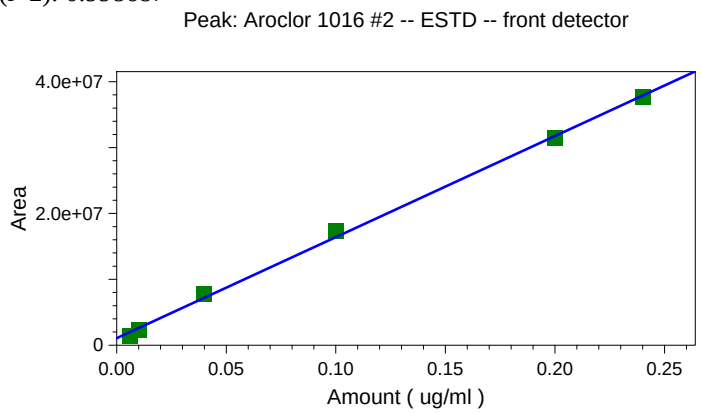
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:18 PM
User: jjy
Instrument: Semi 7

RF	117700287.5		
Last Area			
Residual	0.00132886	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	28248069		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:20 PM
User: jjy
Instrument: Semi 7

Aroclor 1016 #2 (front detector)
Average RF: 1.90912e+008 RF StDev: 3.51998e+007 RF %RSD: 18.4377
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 1.53427e+008x + 1.06944e+006
Goodness of fit (r^2): 0.998687



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	1436796	2259816	7716503	17269762	31416964
RF	239466000	225981600	192912575	172697620	157084820
Last Area Residual	0.00360565	0.00224141	-0.00332392	-0.0055897	0.00220235
Rep StDev					
Rep %RSD					
Rep 1 Area	1436796	2259816	7716503	17269762	31416964
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	0.24	0	0
Area	37759356		
RF	157330650		

Calibration Report

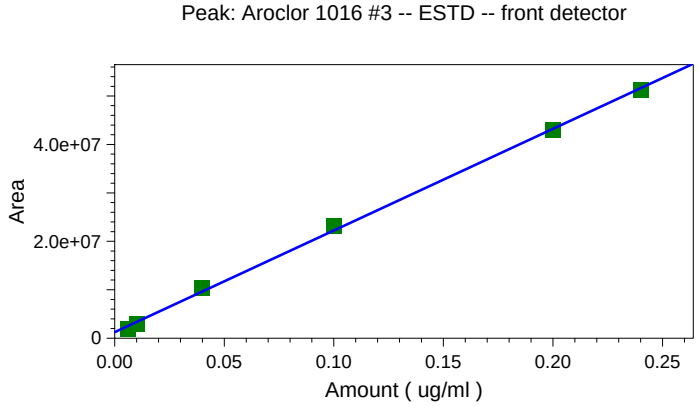
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:20 PM
User: jjy
Instrument: Semi 7

Last Area Residual	0.000864206	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	37759356		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:22 PM
User: jjy
Instrument: Semi 7

Aroclor 1016 #3 (front detector)
Average RF: 2.53441e+008 RF StDev: 4.08374e+007 RF %RSD: 16.1131
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 2.09897e+008x + 1.25326e+006
Goodness of fit (r^2): 0.999055



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	1876905	2895686	10288857	23209957	42994055
RF	312817500	289568600	257221425	232099570	214970275
Last Area					
Residual	0.00302882	0.00217511	-0.0030477	-0.00460687	0.00113702
Rep StDev					
Rep %RSD					
Rep 1 Area	1876905	2895686	10288857	23209957	42994055
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	0.24	0	0
Area	51352880		

Calibration Report

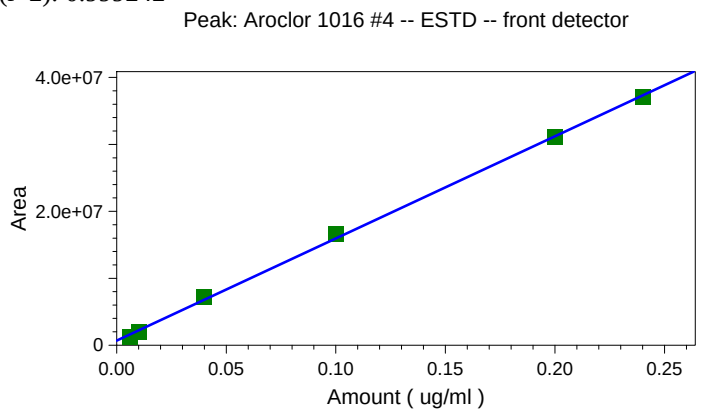
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:22 PM
User: jjy
Instrument: Semi 7

RF	213970333.333333		
Last Area Residual	0.00131361	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	51352880		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:23 PM
User: jjy
Instrument: Semi 7

Aroclor 1016 #4 (front detector)
Average RF: 1.74845e+008 RF StDev: 1.93917e+007 RF %RSD: 11.0908
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 1.52603e+008x + 692075.
Goodness of fit (r^2): 0.999242



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	1204209	1928289	7180234	16608554	31023058
RF	200701500	192828900	179505850	166085540	155115290
Last Area					
Residual	0.00264402	0.00189917	-0.00251646	-0.0042996	0.00124315
Rep StDev					
Rep %RSD					
Rep 1 Area	1204209	1928289	7180234	16608554	31023058
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	0.24	0	0
Area	37159767		
RF	154832362.5		

Calibration Report

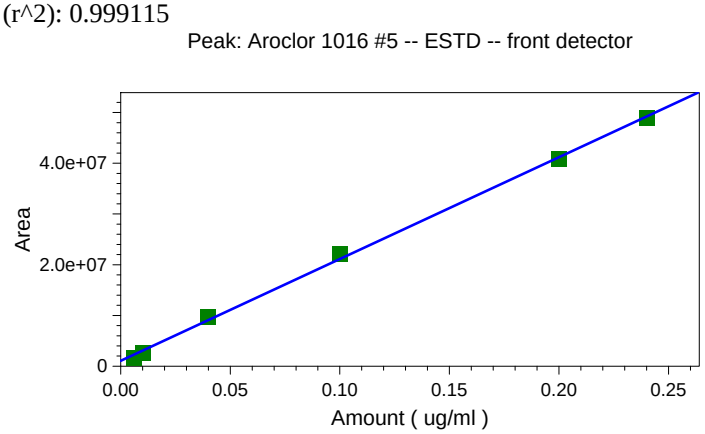
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:23 PM
User: jjy
Instrument: Semi 7

Last Area Residual	0.00102972	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	37159767		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:25 PM
User: jjy
Instrument: Semi 7

Aroclor 1016 #5 (front detector)
Average RF: 2.36971e+008 RF StDev: 3.30039e+007 RF %RSD: 13.9274
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 2.00561e+008x + 1.08111e+006
Goodness of fit (r^2): 0.999115



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	1690163	2688988	9684220	22038454	40899230
RF	281693833.333333	268898800	242105500	220384540	204496150
Last Area Residual	0.00296324	0.00198309	-0.00289524	-0.00449364	0.00146625
Rep StDev					
Rep %RSD					
Rep 1 Area	1690163	2688988	9684220	22038454	40899230
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	0.24	0	0
Area	49019931		

Calibration Report

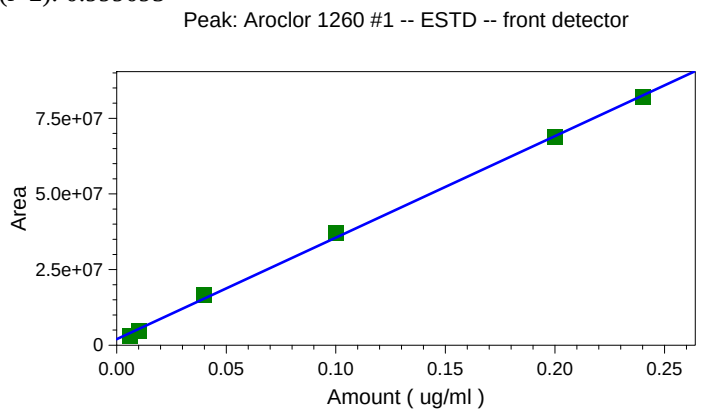
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:25 PM
User: jjy
Instrument: Semi 7

RF	204249712.5		
Last Area			
Residual	0.000976309	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	49019931		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:27 PM
User: jjy
Instrument: Semi 7

Aroclor 1260 #1 (front detector)
Average RF: 4.04385e+008 RF StDev: 6.40232e+007 RF %RSD: 15.8322
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 3.35734e+008x + 1.97503e+006
Goodness of fit (r^2): 0.999095



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	2967150	4641853	16469767	37005910	68644416
RF	494525000	464185300	411744175	370059100	343222080
Last Area					
Residual	0.00304492	0.00205673	-0.0031733	-0.00434124	0.00142188
Rep StDev					
Rep %RSD					
Rep 1 Area	2967150	4641853	16469767	37005910	68644416
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	0.24	0	0
Area	82218423		
RF	342576762.5		

Calibration Report

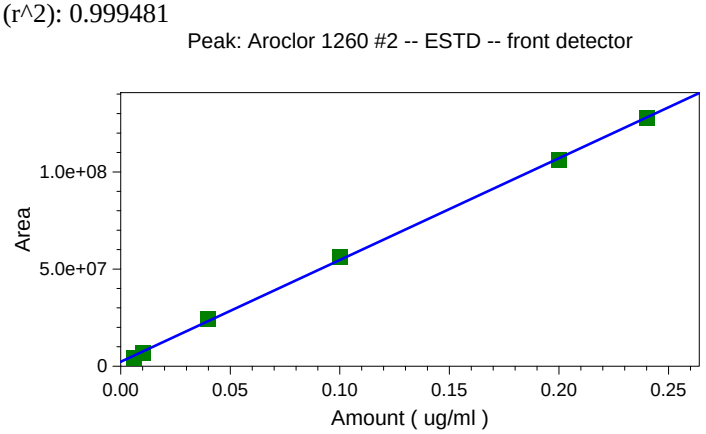
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:27 PM
User: jjy
Instrument: Semi 7

Last Area Residual	0.000991015	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	82218423		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:28 PM
User: jjy
Instrument: Semi 7

Aroclor 1260 #2 (front detector)
Average RF: 6.03637e+008 RF StDev: 7.50956e+007 RF %RSD: 12.4405
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 5.23996e+008x + 2.25239e+006
Goodness of fit (r^2): 0.999481



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	4248998	6762092	24422735	56329083	106040622
RF	708166333.333333	676209200	610568375	563290830	530203110
Last Area Residual	0.00218966	0.00139364	-0.00231011	-0.00320052	0.00192946
Rep StDev					
Rep %RSD					
Rep 1 Area	4248998	6762092	24422735	56329083	106040622
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	0.24	0	0
Area	128012621		

Calibration Report

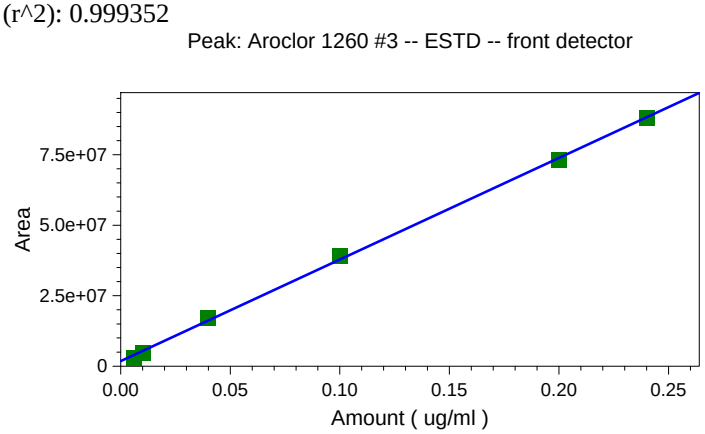
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:28 PM
User: jjy
Instrument: Semi 7

RF	533385920.833333		
Last Area Residual	-2.12746e-006	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	128012621		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:29 PM
User: jjy
Instrument: Semi 7

Aroclor 1260 #3 (front detector)
Average RF: 4.23965e+008 RF StDev: 6.01306e+007 RF %RSD: 14.1829
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 3.60264e+008x + 1.79527e+006
Goodness of fit (r^2): 0.999352



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	3043849	4821521	17225866	39043186	73128124
RF	507308166.666667	482152100	430646650	390431860	365640620
Last Area					
Residual	0.00253427	0.00159991	-0.00283133	-0.00339054	0.00199853
Rep StDev					
Rep %RSD					
Rep 1 Area	3043849	4821521	17225866	39043186	73128124
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	0.24	0	0
Area	88226577		

Calibration Report

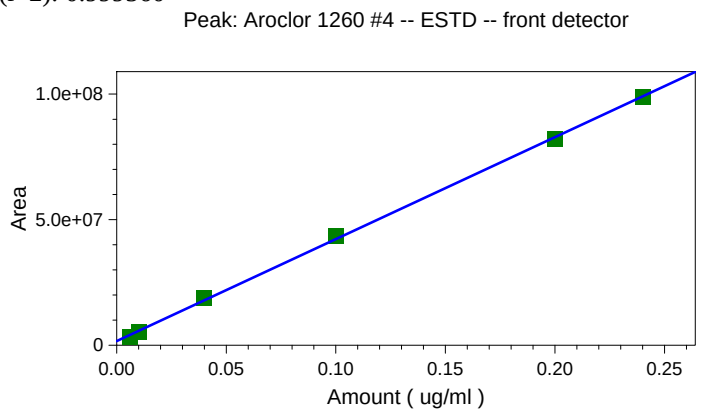
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:29 PM
User: jjy
Instrument: Semi 7

RF	367610737.5		
Last Area			
Residual	8.91488e-005	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	88226577		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:31 PM
User: jjy
Instrument: Semi 7

Aroclor 1260 #4 (front detector)
Average RF: 4.64141e+008 RF StDev: 5.47042e+007 RF %RSD: 11.7861
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 4.05968e+008x + 1.64790e+006
Goodness of fit (r^2): 0.999560



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	3244495	5152417	18873016	43341850	82171126
RF	540749166.666667	515241700	471825400	433418500	410855630
Last Area Residual	0.00206719	0.00136751	-0.00242973	-0.00270254	0.00165133
Rep StDev					
Rep %RSD					
Rep 1 Area	3244495	5152417	18873016	43341850	82171126
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	0.24	0	0
Area	99061458		

Calibration Report

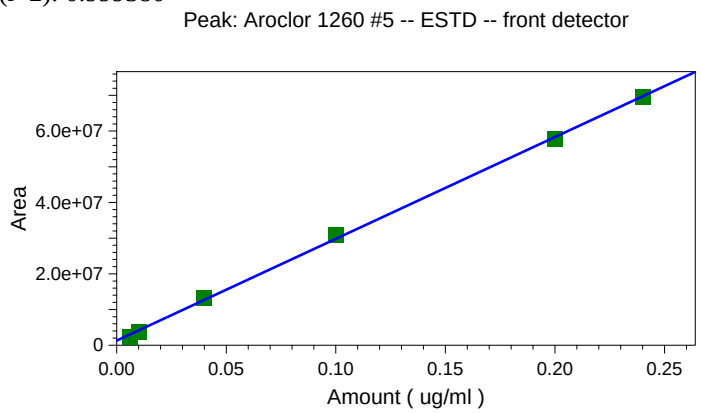
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:31 PM
User: jjy
Instrument: Semi 7

RF	412756075		
Last Area Residual	4.62493e-005	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	99061458		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:33 PM
User: jjy
Instrument: Semi 7

Aroclor 1260 #5 (front detector)
Average RF: 3.31521e+008 RF StDev: 4.49872e+007 RF %RSD: 13.5700
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 2.85046e+008x + 1.30478e+006
Goodness of fit (r^2): 0.999380



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	2407248	3662156	13358952	30874088	57716532
RF	401208000	366215600	333973800	308740880	288582660
Last Area					
Residual	0.00213232	0.00172984	-0.00228855	-0.00373532	0.00209577
Rep StDev					
Rep %RSD					
Rep 1 Area	2407248	3662156	13358952	30874088	57716532
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	0.24	0	0
Area	69696952		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:33 PM
User: jjy
Instrument: Semi 7

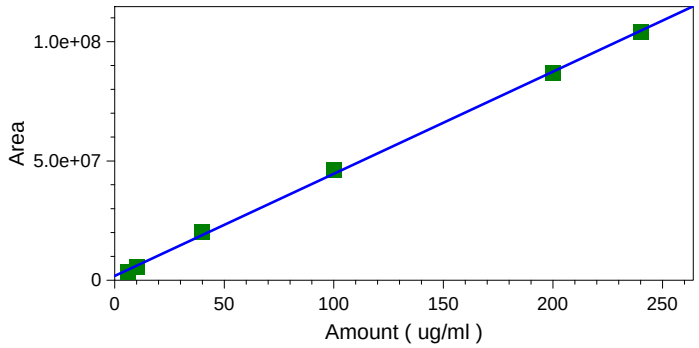
RF	290403966.666667		
Last Area Residual	6.59486e-005	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	69696952		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:34 PM
User: jjy
Instrument: Semi 7

SURRDCBPCB (front detector)
Average RF: 488559. RF StDev: 53917.1 RF %RSD: 11.0359
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 428182.x + 1.82446e+006
Goodness of fit (r^2): 0.999415

Peak: SURRDCBPCB -- ESTD -- front detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	6	10	40	100	200
Area	3372288	5376940	20041686	46141114	86934739
RF	562048	537694	501042.15	461411.14	434673.695
Last Area					
Residual	2.38511	1.70334	-2.54551	-3.49953	1.22882
Rep StDev					
Rep %RSD					
Rep 1 Area	3372288	5376940	20041686	46141114	86934739
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	240	0	0
Area	104276569		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:34 PM
User: jjy
Instrument: Semi 7

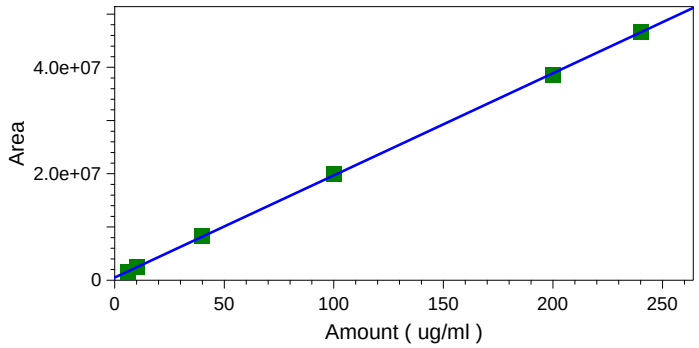
RF	434485.704166667		
Last Area Residual	0.72777	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	104276569		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:42 PM
User: jjy
Instrument: Semi 7

SURRTCMXPCB (back detector)
Average RF: 214143. RF StDev: 24729.6 RF %RSD: 11.5482
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 191947.x + 506835.
Goodness of fit (r^2): 0.999883

Peak: SURRTCMXPCB -- ESTD -- back detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	6	10	40	100	200
Area	1500033	2401761	8319713	19905994	38574203
RF	250005.5	240176.1	207992.825	199059.94	192871.015
Last Area					
Residual	0.825677	0.127888	-0.703232	-1.065	1.67808
Rep StDev					
Rep %RSD					
Rep 1 Area	1500033	2401761	8319713	19905994	38574203
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	240	0	0
Area	46739931		
RF	194749.7125		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:42 PM
User: jjy
Instrument: Semi 7

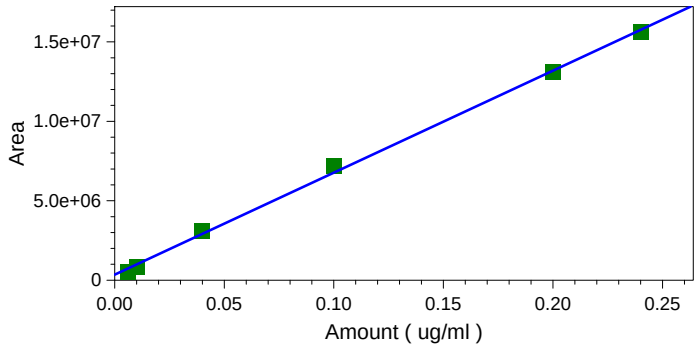
Last Area Residual	-0.863417	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	46739931		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:44 PM
User: jjy
Instrument: Semi 7

Aroclor 1016 #1 (back detector)
Average RF: 7.46394e+007 RF StDev: 8.58048e+006 RF %RSD: 11.4959
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 6.41964e+007x + 349472.
Goodness of fit (r^2): 0.998551

Peak: Aroclor 1016 #1 -- ESTD -- back detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	514334	819548	3111055	7172910	13084053
RF	85722333.3333	81954800	77776375	71729100	65420265
Last Area Residual	0.00343191	0.00267753	-0.00301771	-0.00628999	0.00163103
Rep StDev					
Rep %RSD					
Rep 1 Area	514334	819548	3111055	7172910	13084053
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	0.24	0	0
Area	15656006		

Calibration Report

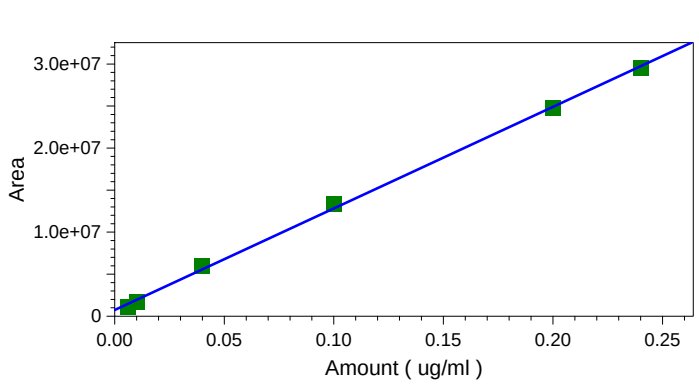
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:44 PM
User: jjy
Instrument: Semi 7

RF	65233358.3333333		
Last Area Residual	0.00156723	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	15656006		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:46 PM
User: jjy
Instrument: Semi 7

Aroclor 1016 #2 (back detector)
Average RF: 1.45923e+008 RF StDev: 2.31237e+007 RF %RSD: 15.8466
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 1.20901e+008x + 726875.
Goodness of fit (r^2): 0.999015



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	1063602	1691735	5922796	13396294	24757646
RF	177267000	169173500	148069900	133962940	123788230
Last Area					
Residual	0.00321485	0.00201942	-0.00297668	-0.00479172	0.00123589
Rep StDev					
Rep %RSD					
Rep 1 Area	1063602	1691735	5922796	13396294	24757646
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	0.24	0	0
Area	29586145		

Calibration Report

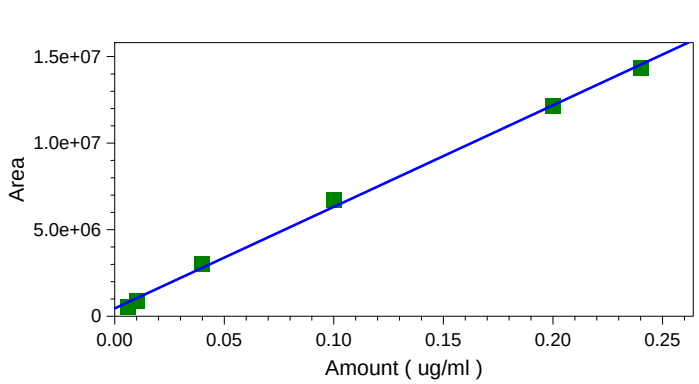
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:46 PM
User: jjy
Instrument: Semi 7

RF	123275604.166667		
Last Area Residual	0.00129824	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	29586145		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:47 PM
User: jjy
Instrument: Semi 7

Aroclor 1016 #3 (back detector)
Average RF: 7.36696e+007 RF StDev: 1.35531e+007 RF %RSD: 18.3972
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 5.87051e+007x + 449133.
Goodness of fit (r^2): 0.998169



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	557648	856764	3026584	6700644	12167843
RF	92941333.3333	85676400	75664600	67006440	60839215
Last Area Residual	0.00415152	0.00305629	-0.00390504	-0.00649001	0.000380177
Rep StDev					
Rep %RSD					
Rep 1 Area	557648	856764	3026584	6700644	12167843
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	0.24	0	0
Area	14373578		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:47 PM
User: jjy
Instrument: Semi 7

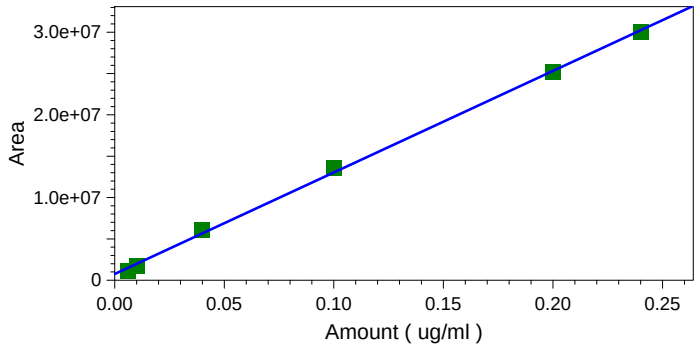
RF	59889908.3333333		
Last Area Residual	0.00280706	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	14373578		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:49 PM
User: jjy
Instrument: Semi 7

Aroclor 1016 #4 (back detector)
Average RF: 1.47949e+008 RF StDev: 2.28433e+007 RF %RSD: 15.4400
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 1.22891e+008x + 738798.
Goodness of fit (r^2): 0.998948

Peak: Aroclor 1016 #4 -- ESTD -- back detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	1073011	1703777	6046183	13626659	25138760
RF	178835166.666667	170377700	151154575	136266590	125693800
Last Area					
Residual	0.00328041	0.0021477	-0.00318765	-0.00487207	0.00145081
Rep StDev					
Rep %RSD					
Rep 1 Area	1073011	1703777	6046183	13626659	25138760
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	0.24	0	0
Area	30087592		

Calibration Report

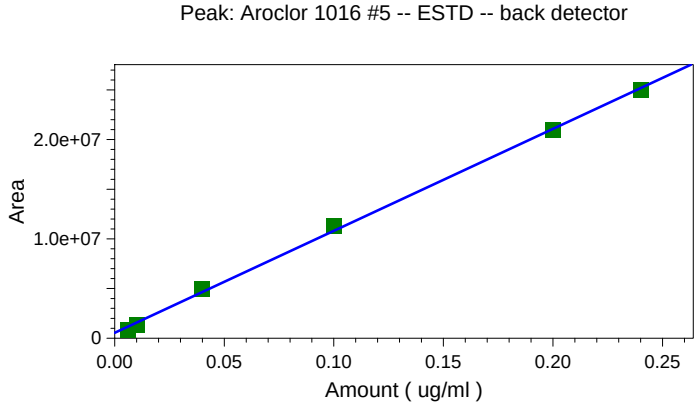
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:49 PM
User: jjy
Instrument: Semi 7

RF	125364966.666667		
Last Area Residual	0.0011808	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	30087592		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:50 PM
User: jjy
Instrument: Semi 7

Aroclor 1016 #5 (back detector)
Average RF: 1.20163e+008 RF StDev: 1.55174e+007 RF %RSD: 12.9136
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 1.02675e+008x + 539169.
Goodness of fit (r^2): 0.999047



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	855088	1322408	4973605	11271876	20965117
RF	142514666.666667	132240800	124340125	112718760	104825585
Last Area Residual	0.00292313	0.0023717	-0.00318885	-0.00453039	0.00106302
Rep StDev					
Rep %RSD					
Rep 1 Area	855088	1322408	4973605	11271876	20965117
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	0.24	0	0
Area	25041500		

Calibration Report

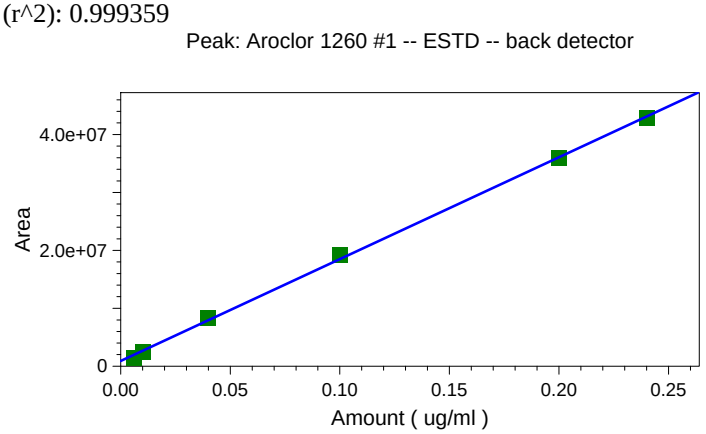
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:50 PM
User: jjy
Instrument: Semi 7

RF	104339583.333333		
Last Area Residual	0.00136139	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	25041500		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:52 PM
User: jjy
Instrument: Semi 7

Aroclor 1260 #1 (back detector)
Average RF: 2.07568e+008 RF StDev: 2.98179e+007 RF %RSD: 14.3653
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 1.75921e+008x + 899304.
Goodness of fit (r^2): 0.999359



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	1495406	2365259	8389496	19146167	35898821
RF	249234333.333333	236525900	209737400	191461670	179494105
Last Area Residual	0.00261153	0.00166697	-0.00257705	-0.00372199	0.00104967
Rep StDev					
Rep %RSD					
Rep 1 Area	1495406	2365259	8389496	19146167	35898821
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	0.24	0	0
Area	42949519		

Calibration Report

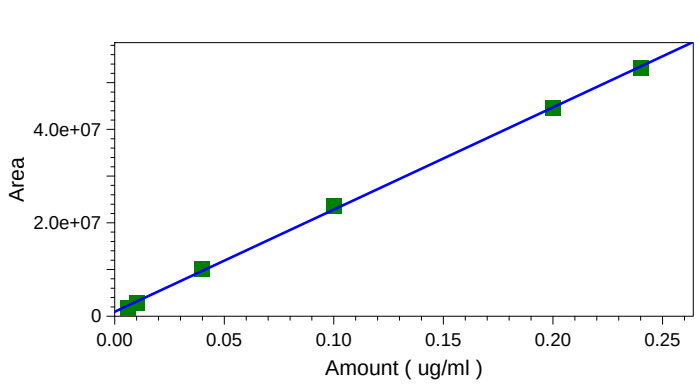
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:52 PM
User: jjy
Instrument: Semi 7

RF	178956329.166667		
Last Area Residual	0.000970867	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	42949519		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:53 PM
User: jjy
Instrument: Semi 7

Aroclor 1260 #2 (back detector)
Average RF: 2.52467e+008 RF StDev: 3.18306e+007 RF %RSD: 12.6078
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 2.18801e+008x + 955756.
Goodness of fit (r^2): 0.999525



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	1783959	2832875	10156128	23567247	44537294
RF	297326500	283287500	253903200	235672470	222686470
Last Area					
Residual	0.00221482	0.0014209	-0.00204897	-0.00334255	0.000816887
Rep StDev					
Rep %RSD					
Rep 1 Area	1783959	2832875	10156128	23567247	44537294
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	0.24	0	0
Area	53262650		

Calibration Report

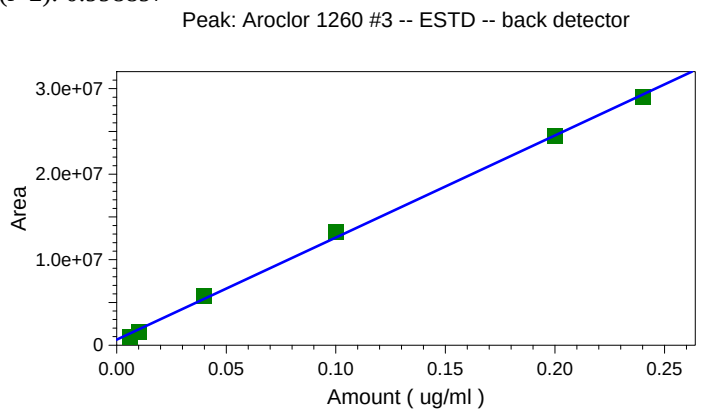
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:53 PM
User: jjy
Instrument: Semi 7

RF	221927708.333333		
Last Area Residual	0.000938909	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	53262650		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:55 PM
User: jjy
Instrument: Semi 7

Aroclor 1260 #3 (back detector)
Average RF: 1.39803e+008 RF StDev: 1.74952e+007 RF %RSD: 12.5142
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 1.19451e+008x + 643298.
Goodness of fit (r^2): 0.998897



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	973647	1569778	5758195	13218890	24443656
RF	162274500	156977800	143954875	132188900	122218280
Last Area					
Residual	0.00323443	0.00224383	-0.00282013	-0.00527845	0.00075175
Rep StDev					
Rep %RSD					
Rep 1 Area	973647	1569778	5758195	13218890	24443656
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	0.24	0	0
Area	29088283		

Calibration Report

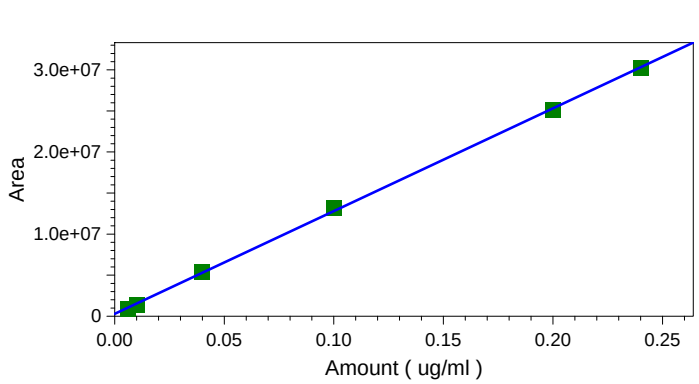
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:55 PM
User: jjy
Instrument: Semi 7

RF	121201179.166667		
Last Area Residual	0.00186856	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	29088283		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:56 PM
User: jjy
Instrument: Semi 7

Aroclor 1260 #4 (back detector)
Average RF: 1.34064e+008 RF StDev: 7.58546e+006 RF %RSD: 5.65809
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 1.25064e+008x + 294834.
Goodness of fit (r^2): 0.999684



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	866530	1402606	5443202	13177550	25128344
RF	144421666.666667	140260600	136080050	131775500	125641720
Last Area Residual	0.00142877	0.00114236	-0.00116585	-0.00300894	0.00143367
Rep StDev					
Rep %RSD					
Rep 1 Area	866530	1402606	5443202	13177550	25128344
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	0.24	0	0
Area	30288948		

Calibration Report

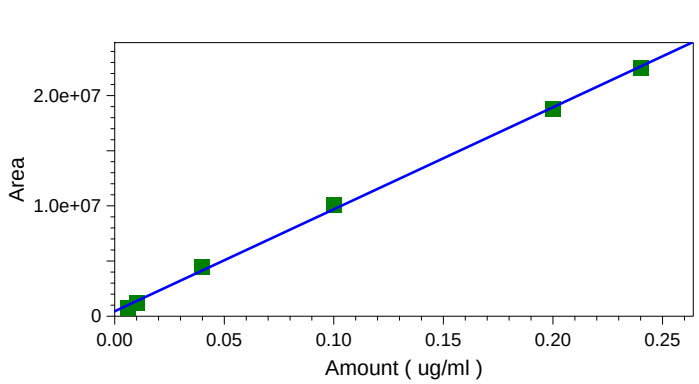
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:56 PM
User: jjy
Instrument: Semi 7

RF	126203950		
Last Area			
Residual	0.000169989	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	30288948		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:57 PM
User: jjy
Instrument: Semi 7

Aroclor 1260 #5 (back detector)
Average RF: 1.06283e+008 RF StDev: 1.16096e+007 RF %RSD: 10.9233
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 9.24869e+007x + 444768.
Goodness of fit (r^2): 0.999109



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	711768	1194390	4425357	10098414	18811261
RF	118628000	119439000	110633925	100984140	94056305
Last Area Residual	0.0031131	0.00189483	-0.00303948	-0.0043785	0.00141525
Rep StDev					
Rep %RSD					
Rep 1 Area	711768	1194390	4425357	10098414	18811261
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7
Amount	0.24	0
Area	22549624	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:57 PM
User: jjy
Instrument: Semi 7

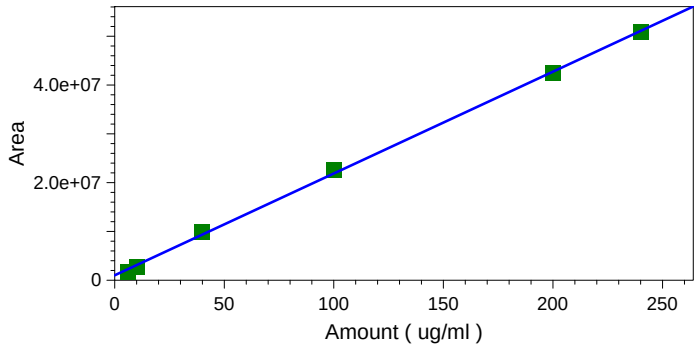
RF	93956766.6666667	
Last Area Residual	0.000994801	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	22549624	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat	
Rep 1 Sample ID	PCB ICAL 6 PP 3041	
Rep 1 Calib. Time	11/11/2010 7:19:27 PM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:59 PM
User: jjy
Instrument: Semi 7

SURRDCBPCB (back detector)
Average RF: 243420. RF StDev: 32164.9 RF %RSD: 13.2137
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 208635.x + 1.00792e+006
Goodness of fit (r^2): 0.999350

Peak: SURRDCBPCB -- ESTD -- back detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	6	10	40	100	200
Area	1728737	2735270	9930367	22617594	42408969
RF	288122.8333 33333	273527	248259.175	226175.94	212044.845
Last Area					
Residual	2.54508	1.72072	-2.76574	-3.57624	1.56272
Rep StDev					
Rep %RSD					
Rep 1 Area	1728737	2735270	9930367	22617594	42408969
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	240	0	0
Area	50973300		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:59 PM
User: jjy
Instrument: Semi 7

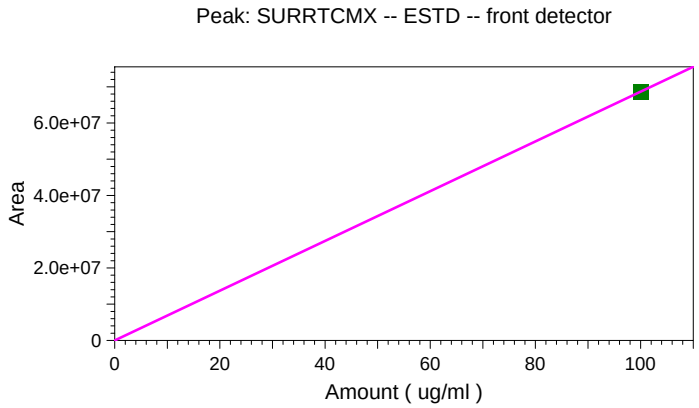
RF	212388.75		
Last Area			
Residual	0.513464	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	50973300		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1221.met
Print Time: 11/17/2010 1:45:34 PM
User: jjy
Instrument: Semi 7

SURRTCMX (front detector)
Average RF: 686464.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 686464.



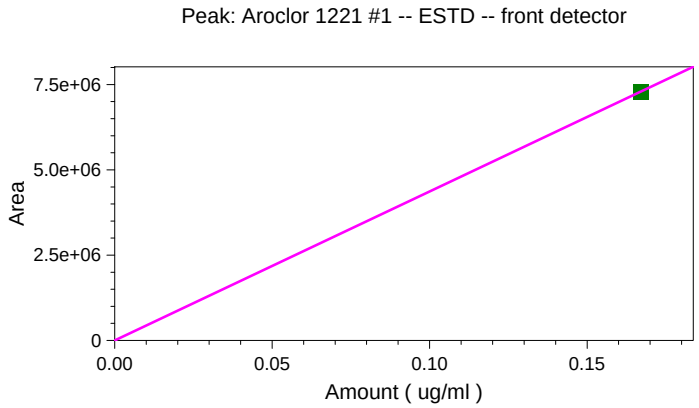
	Level 1	Level 11
Amount	100	0
Area	68646412	
RF	686464.12	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	68646412	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\012.dat	
Rep 1 Sample ID	PCB 1221 CF PP 3068	
Rep 1 Calib. Time	11/12/2010 8:49:12 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1221.met
Print Time: 11/17/2010 1:45:46 PM
User: jjy
Instrument: Semi 7

Aroclor 1221 #1 (front detector)
Average RF: 4.36660e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 4.36660e+007



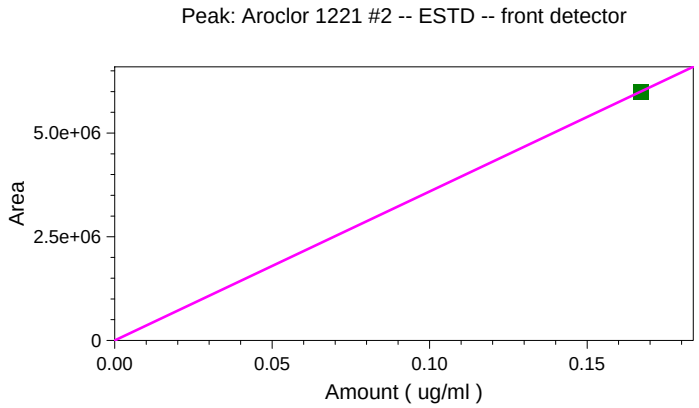
	Level 1	Level 11
Amount	0.167	0
Area	7292227	
RF	43666029.94 01198	
Last Area Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	7292227	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\012.dat	
Rep 1 Sample ID	PCB 1221 CF PP 3068	
Rep 1 Calib. Time	11/12/2010 8:49:12 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1221.met
Print Time: 11/17/2010 1:45:50 PM
User: jjy
Instrument: Semi 7

Aroclor 1221 #2 (front detector)
Average RF: 3.59187e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 3.59187e+007



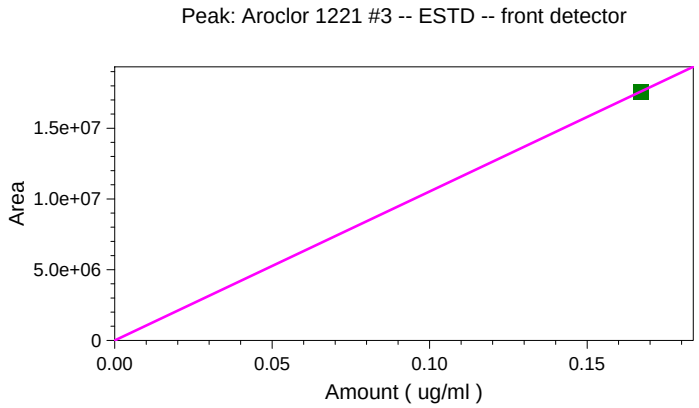
	Level 1	Level 11
Amount	0.167	0
Area	5998423	
RF	35918700.59 88024	
Last Area Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	5998423	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\012.dat	
Rep 1 Sample ID	PCB 1221 CF PP 3068	
Rep 1 Calib. Time	11/12/2010 8:49:12 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1221.met
Print Time: 11/17/2010 1:45:54 PM
User: jjy
Instrument: Semi 7

Aroclor 1221 #3 (front detector)
Average RF: 1.05289e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.05289e+008



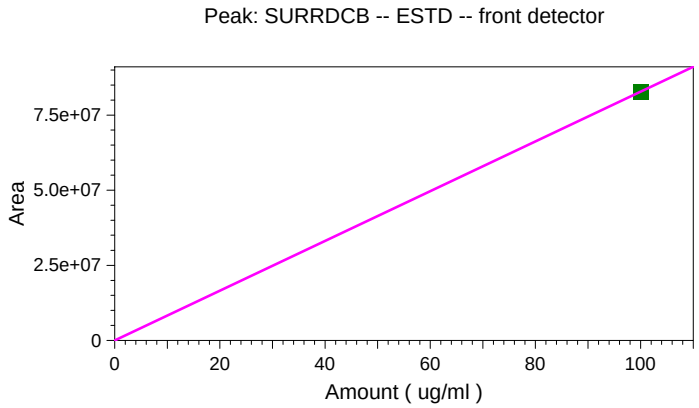
	Level 1	Level 11
Amount	0.167	0
Area	17583296	
RF	105289197.60479	
Last Area Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	17583296	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\012.dat	
Rep 1 Sample ID	PCB 1221 CF PP 3068	
Rep 1 Calib. Time	11/12/2010 8:49:12 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1221.met
Print Time: 11/17/2010 1:45:58 PM
User: jjy
Instrument: Semi 7

SURRDCB (front detector)
Average RF: 828015.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 828015.



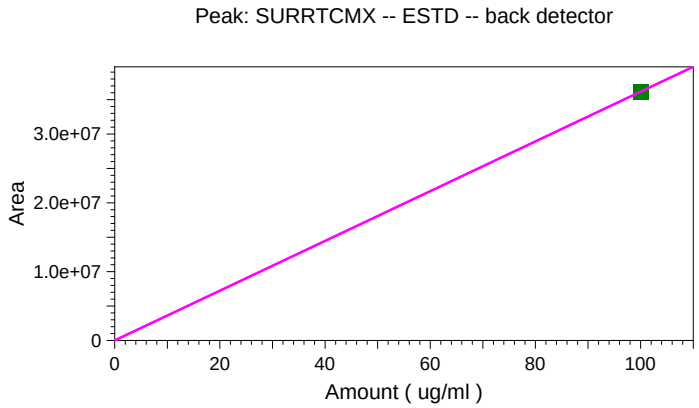
	Level 1	Level 11
Amount	100	0
Area	82801517	
RF	828015.17	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	82801517	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\012.dat	
Rep 1 Sample ID	PCB 1221 CF PP 3068	
Rep 1 Calib. Time	11/12/2010 8:49:12 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1221.met
Print Time: 11/17/2010 1:46:11 PM
User: jjy
Instrument: Semi 7

SURRTCMX (back detector)
Average RF: 361587.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 361587.



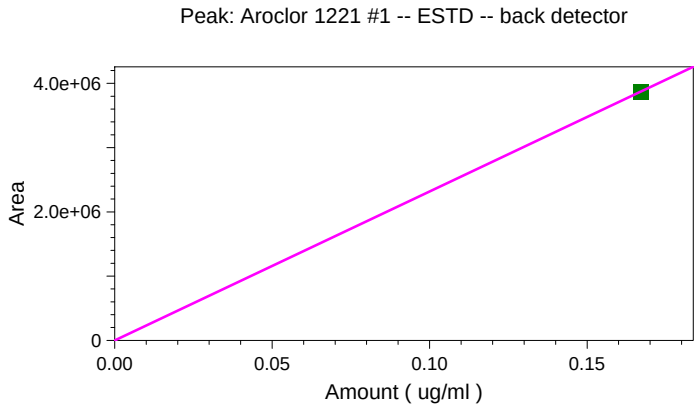
	Level 1	Level 11
Amount	100	0
Area	36158697	
RF	361586.97	
Last Area Residual	-1.42109e-014	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	36158697	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\012.dat	
Rep 1 Sample ID	PCB 1221 CF PP 3068	
Rep 1 Calib. Time	11/12/2010 8:49:12 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1221.met
Print Time: 11/17/2010 1:46:15 PM
User: jjy
Instrument: Semi 7

Aroclor 1221 #1 (back detector)
Average RF: 2.31803e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 2.31803e+007



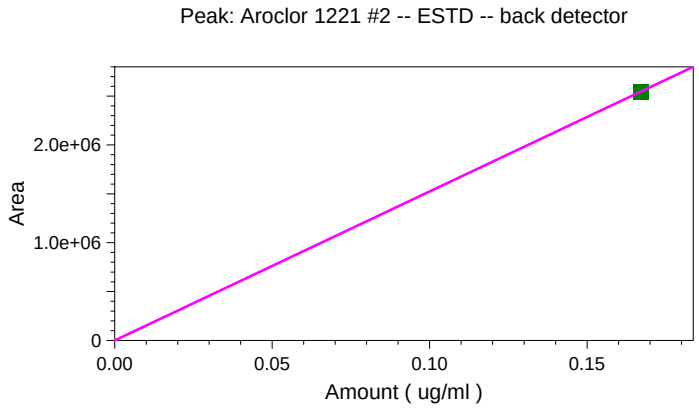
	Level 1	Level 11
Amount	0.167	0
Area	3871112	
RF	23180311.37	
	72455	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	3871112	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\012.dat	
Rep 1 Sample ID	PCB 1221 CF PP 3068	
Rep 1 Calib. Time	11/12/2010 8:49:12 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1221.met
Print Time: 11/17/2010 1:46:18 PM
User: jjy
Instrument: Semi 7

Aroclor 1221 #2 (back detector)
Average RF: 1.52432e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.52432e+007



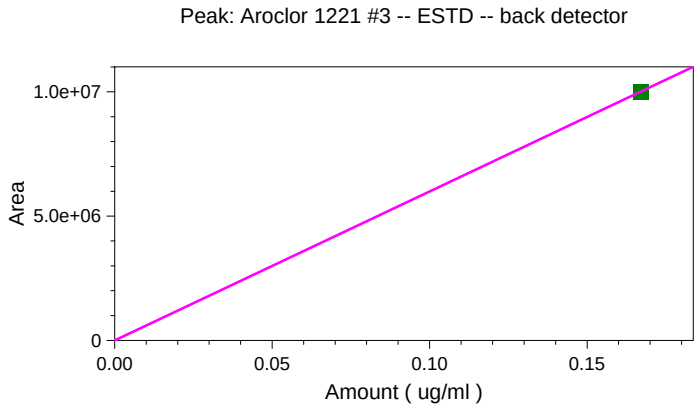
	Level 1	Level 11
Amount	0.167	0
Area	2545612	
RF	15243185.6287425	
Last Area Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	2545612	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\012.dat	
Rep 1 Sample ID	PCB 1221 CF PP 3068	
Rep 1 Calib. Time	11/12/2010 8:49:12 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1221.met
Print Time: 11/17/2010 1:46:22 PM
User: jjy
Instrument: Semi 7

Aroclor 1221 #3 (back detector)
Average RF: 5.99325e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 5.99325e+007



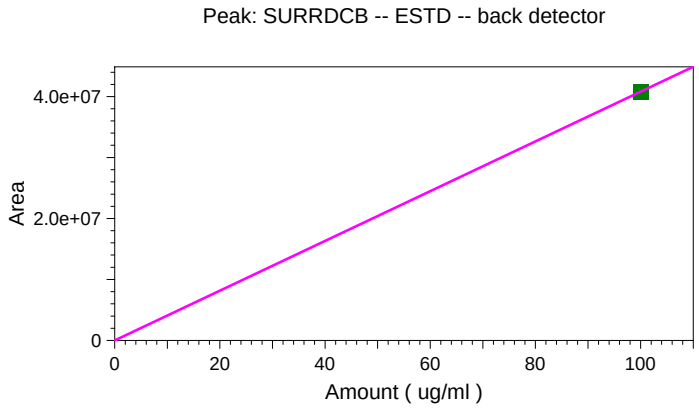
	Level 1	Level 11
Amount	0.167	0
Area	10008734	
RF	59932538.92	
	21557	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	10008734	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\012.dat	
Rep 1 Sample ID	PCB 1221 CF PP 3068	
Rep 1 Calib. Time	11/12/2010 8:49:12 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1221.met
Print Time: 11/17/2010 1:46:25 PM
User: jjy
Instrument: Semi 7

SURRDCB (back detector)
Average RF: 408015.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 408015.



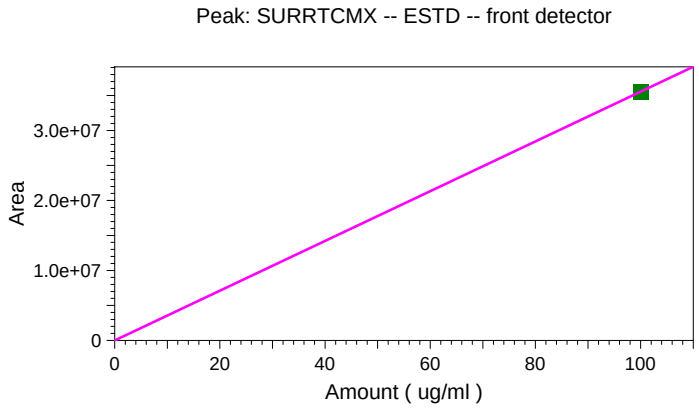
	Level 1	Level 11
Amount	100	0
Area	40801469	
RF	408014.69	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	40801469	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\012.dat	
Rep 1 Sample ID	PCB 1221 CF PP 3068	
Rep 1 Calib. Time	11/12/2010 8:49:12 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1232.met
Print Time: 11/17/2010 1:47:19 PM
User: jjy
Instrument: Semi 7

SURRTCMX (front detector)
Average RF: 355444.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 355444.



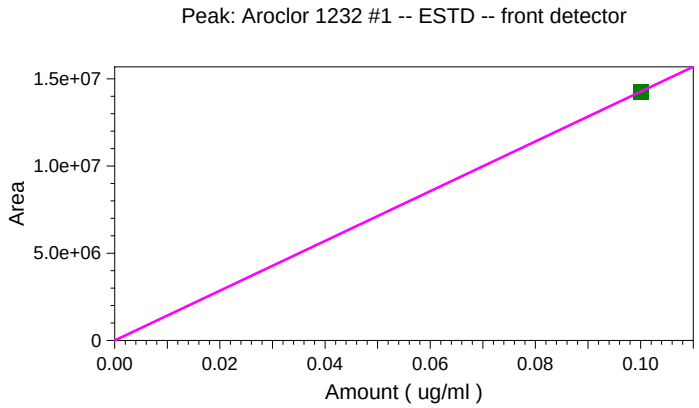
	Level 1	Level 11
Amount	100	0
Area	35544398	
RF	355443.98	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	35544398	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\013.dat	
Rep 1 Sample ID	PCB 1232 CF PP 3042	
Rep 1 Calib. Time	11/12/2010 8:49:35 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1232.met
Print Time: 11/17/2010 1:47:25 PM
User: jjy
Instrument: Semi 7

Aroclor 1232 #1 (front detector)
Average RF: 1.42647e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.42647e+008



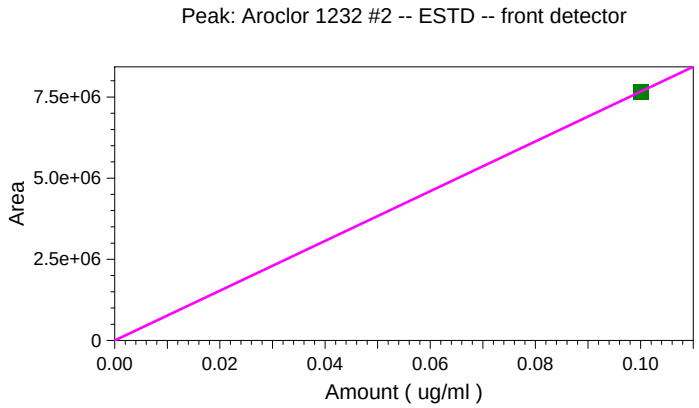
	Level 1	Level 11
Amount	0.1	0
Area	14264739	
RF	142647390	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	14264739	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\013.dat	
Rep 1 Sample ID	PCB 1232 CF PP 3042	
Rep 1 Calib. Time	11/12/2010 8:49:35 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1232.met
Print Time: 11/17/2010 1:47:28 PM
User: jjy
Instrument: Semi 7

Aroclor 1232 #2 (front detector)
Average RF: 7.66580e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 7.66580e+007



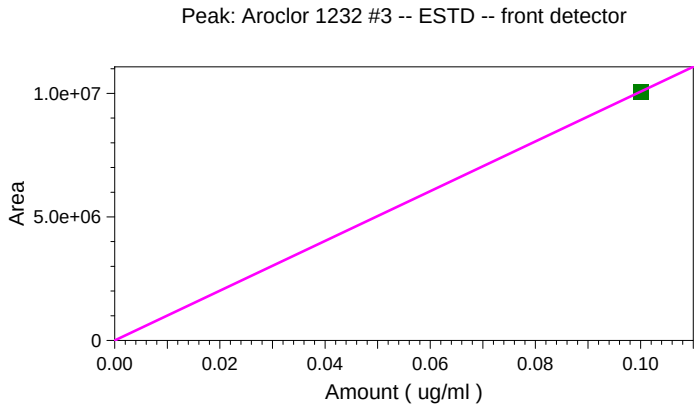
	Level 1	Level 11
Amount	0.1	0
Area	7665796	
RF	76657960	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	7665796	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\013.dat	
Rep 1 Sample ID	PCB 1232 CF PP 3042	
Rep 1 Calib. Time	11/12/2010 8:49:35 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1232.met
Print Time: 11/17/2010 1:47:31 PM
User: jjy
Instrument: Semi 7

Aroclor 1232 #3 (front detector)
Average RF: 1.00700e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.00700e+008



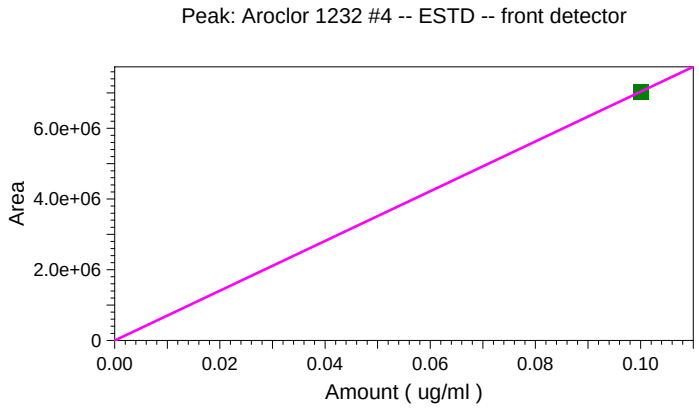
	Level 1	Level 11
Amount	0.1	0
Area	10070000	
RF	100700000	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	10070000	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\013.dat	
Rep 1 Sample ID	PCB 1232 CF PP 3042	
Rep 1 Calib. Time	11/12/2010 8:49:35 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1232.met
Print Time: 11/17/2010 1:47:35 PM
User: jjy
Instrument: Semi 7

Aroclor 1232 #4 (front detector)
Average RF: 7.03684e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 7.03684e+007



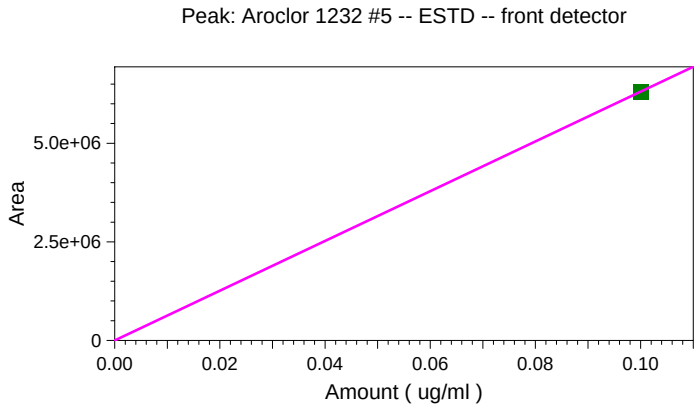
	Level 1	Level 11
Amount	0.1	0
Area	7036843	
RF	70368430	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	7036843	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\013.dat	
Rep 1 Sample ID	PCB 1232 CF PP 3042	
Rep 1 Calib. Time	11/12/2010 8:49:35 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1232.met
Print Time: 11/17/2010 1:47:40 PM
User: jjy
Instrument: Semi 7

Aroclor 1232 #5 (front detector)
Average RF: 6.30867e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 6.30867e+007



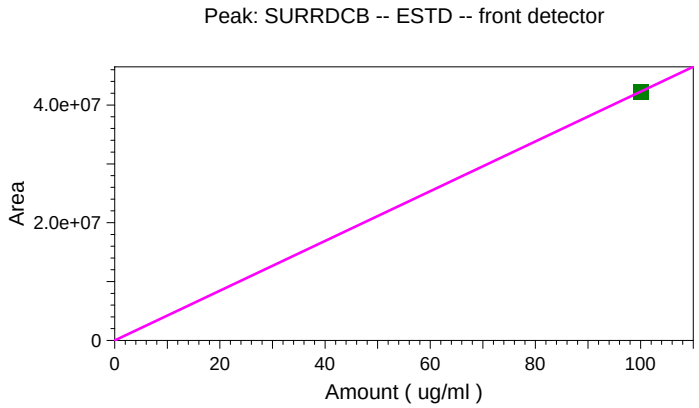
	Level 1
Amount	0.1
Area	6308673
RF	63086730
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	6308673
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\013.dat
Rep 1 Sample ID	PCB 1232 CF PP 3042
Rep 1 Calib. Time	11/12/2010 8:49:35 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1232.met
Print Time: 11/17/2010 1:47:45 PM
User: jjy
Instrument: Semi 7

SURRDCB (front detector)
Average RF: 422636.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 422636.



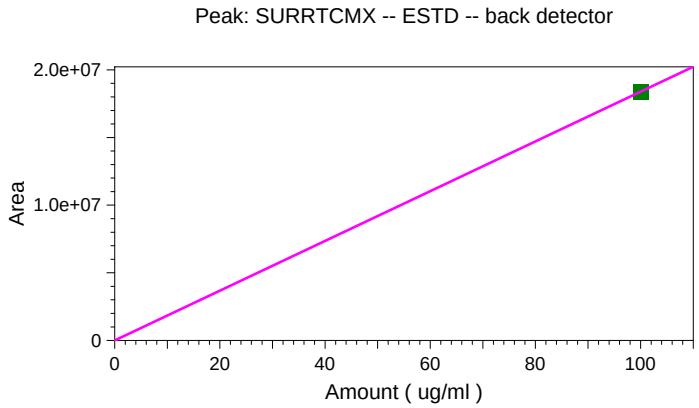
	Level 1
Amount	100
Area	42263613
RF	422636.13
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	42263613
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\013.dat
Rep 1 Sample ID	PCB 1232 CF PP 3042
Rep 1 Calib. Time	11/12/2010 8:49:35 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1232.met
Print Time: 11/17/2010 1:47:54 PM
User: jjy
Instrument: Semi 7

SURRTCMX (back detector)
Average RF: 183880.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 183880.



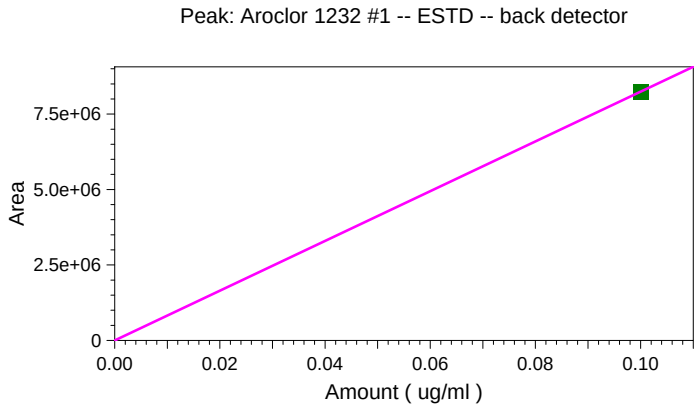
	Level 1	Level 11
Amount	100	0
Area	18388009	
RF	183880.09	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	18388009	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\013.dat	
Rep 1 Sample ID	PCB 1232 CF PP 3042	
Rep 1 Calib. Time	11/12/2010 8:49:35 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1232.met
Print Time: 11/17/2010 1:47:58 PM
User: jjy
Instrument: Semi 7

Aroclor 1232 #1 (back detector)
Average RF: 8.24204e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 8.24204e+007



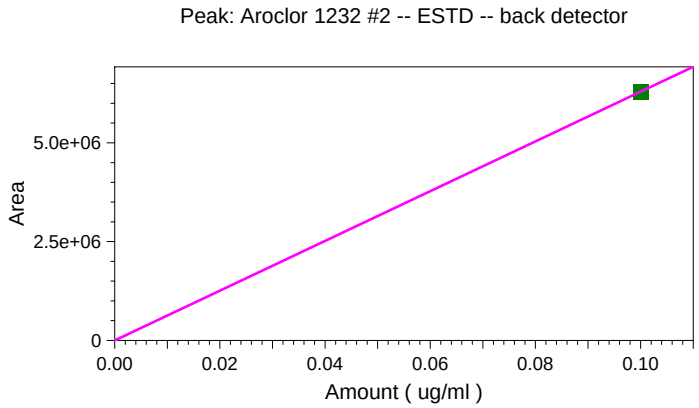
	Level 1	Level 11
Amount	0.1	0
Area	8242035	
RF	82420350	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	8242035	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\013.dat	
Rep 1 Sample ID	PCB 1232 CF PP 3042	
Rep 1 Calib. Time	11/12/2010 8:49:35 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1232.met
Print Time: 11/17/2010 1:48:01 PM
User: jjy
Instrument: Semi 7

Aroclor 1232 #2 (back detector)
Average RF: 6.29390e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 6.29390e+007



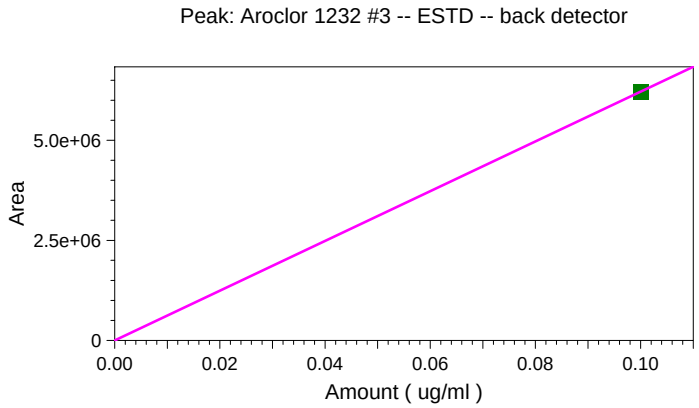
	Level 1	Level 11
Amount	0.1	0
Area	6293900	
RF	62939000	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	6293900	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\013.dat	
Rep 1 Sample ID	PCB 1232 CF PP 3042	
Rep 1 Calib. Time	11/12/2010 8:49:35 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1232.met
Print Time: 11/17/2010 1:48:05 PM
User: jjy
Instrument: Semi 7

Aroclor 1232 #3 (back detector)
Average RF: 6.21431e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 6.21431e+007



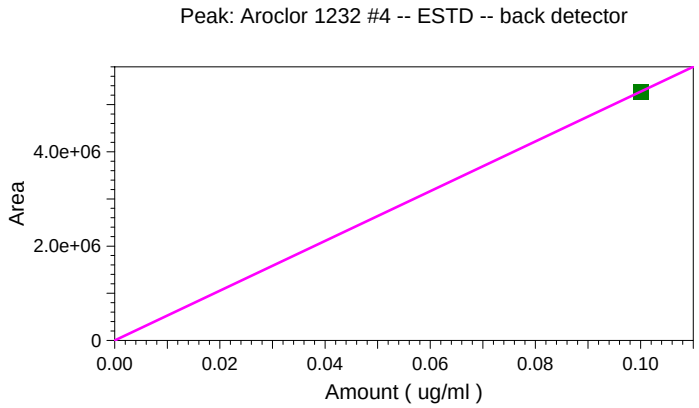
	Level 1	Level 11
Amount	0.1	0
Area	6214305	
RF	62143050	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	6214305	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\013.dat	
Rep 1 Sample ID	PCB 1232 CF PP 3042	
Rep 1 Calib. Time	11/12/2010 8:49:35 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1232.met
Print Time: 11/17/2010 1:48:08 PM
User: jjy
Instrument: Semi 7

Aroclor 1232 #4 (back detector)
Average RF: 5.27447e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 5.27447e+007



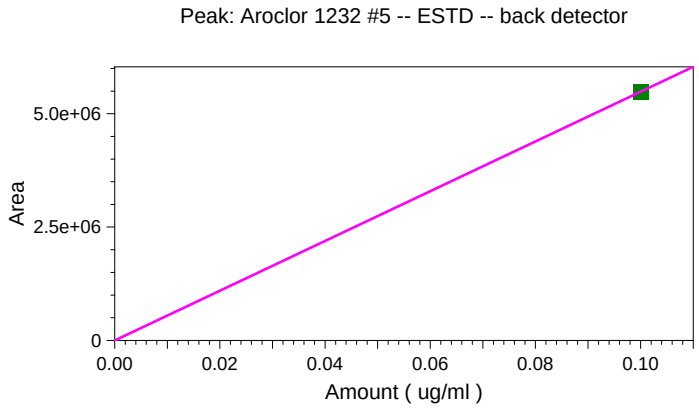
	Level 1	Level 11
Amount	0.1	0
Area	5274465	
RF	52744650	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	5274465	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\013.dat	
Rep 1 Sample ID	PCB 1232 CF PP 3042	
Rep 1 Calib. Time	11/12/2010 8:49:35 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1232.met
Print Time: 11/17/2010 1:48:12 PM
User: jjy
Instrument: Semi 7

Aroclor 1232 #5 (back detector)
Average RF: 5.48723e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 5.48723e+007



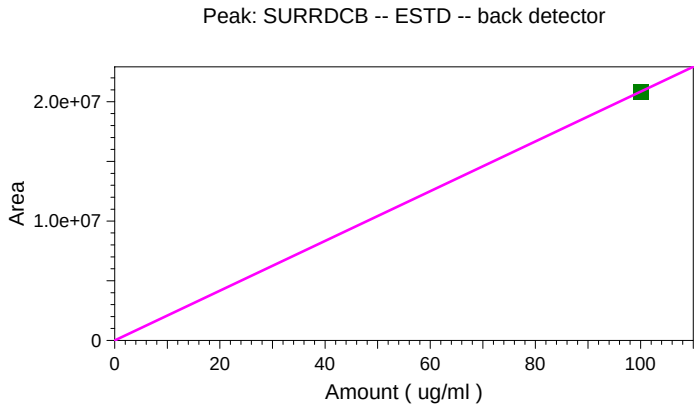
	Level 1
Amount	0.1
Area	5487232
RF	54872320
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	5487232
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\013.dat
Rep 1 Sample ID	PCB 1232 CF PP 3042
Rep 1 Calib. Time	11/12/2010 8:49:35 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1232.met
Print Time: 11/17/2010 1:48:16 PM
User: jjy
Instrument: Semi 7

SURRDCB (back detector)
Average RF: 208424.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 208424.



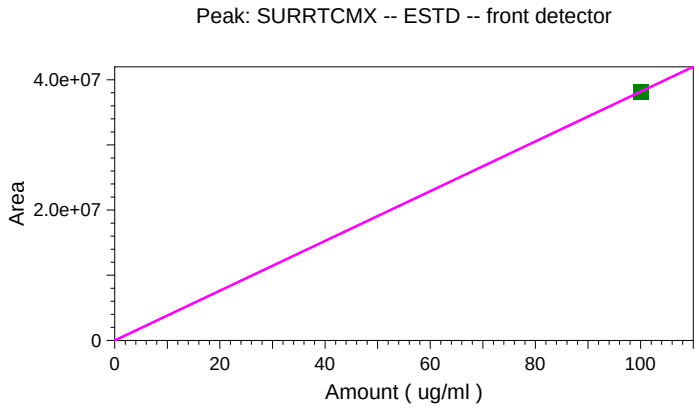
	Level 1
Amount	100
Area	20842377
RF	208423.77
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	20842377
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\013.dat
Rep 1 Sample ID	PCB 1232 CF PP 3042
Rep 1 Calib. Time	11/12/2010 8:49:35 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1242.met
Print Time: 11/17/2010 1:48:47 PM
User: jjy
Instrument: Semi 7

SURRTCMX (front detector)
Average RF: 381739.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 381739.



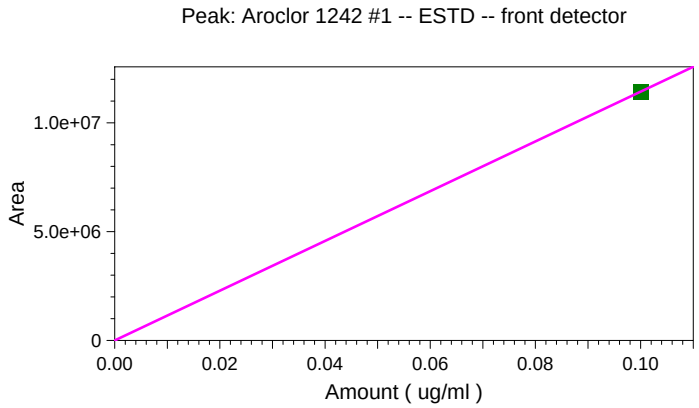
	Level 1	Level 11
Amount	100	0
Area	38173877	
RF	381738.77	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	38173877	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\014.dat	
Rep 1 Sample ID	PCB 1242 CF PP 3043	
Rep 1 Calib. Time	11/12/2010 8:49:48 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1242.met
Print Time: 11/17/2010 1:48:52 PM
User: jjy
Instrument: Semi 7

Aroclor 1242 #1 (front detector)
Average RF: 1.14356e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.14356e+008



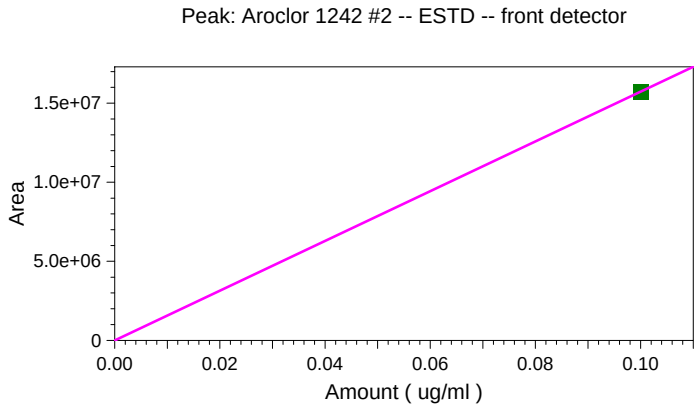
	Level 1	Level 11
Amount	0.1	0
Area	11435620	
RF	114356200	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	11435620	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\014.dat	
Rep 1 Sample ID	PCB 1242 CF PP 3043	
Rep 1 Calib. Time	11/12/2010 8:49:48 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1242.met
Print Time: 11/17/2010 1:48:56 PM
User: jjy
Instrument: Semi 7

Aroclor 1242 #2 (front detector)
Average RF: 1.57308e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.57308e+008



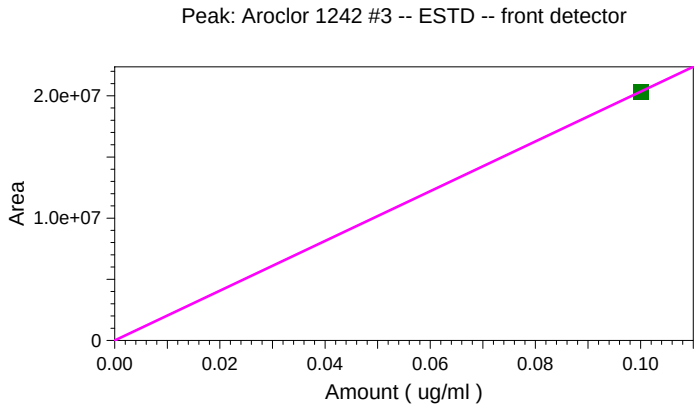
	Level 1	Level 11
Amount	0.1	0
Area	15730793	
RF	157307930	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	15730793	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\014.dat	
Rep 1 Sample ID	PCB 1242 CF PP 3043	
Rep 1 Calib. Time	11/12/2010 8:49:48 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1242.met
Print Time: 11/17/2010 1:48:59 PM
User: jjy
Instrument: Semi 7

Aroclor 1242 #3 (front detector)
Average RF: 2.03400e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 2.03400e+008



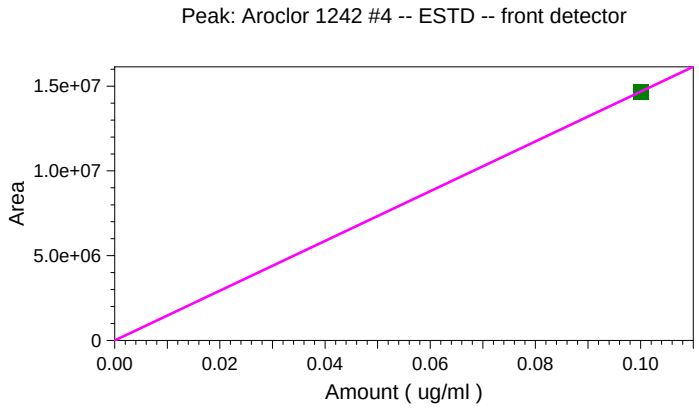
	Level 1	Level 11
Amount	0.1	0
Area	20340031	
RF	203400310	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	20340031	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\014.dat	
Rep 1 Sample ID	PCB 1242 CF PP 3043	
Rep 1 Calib. Time	11/12/2010 8:49:48 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1242.met
Print Time: 11/17/2010 1:49:03 PM
User: jjy
Instrument: Semi 7

Aroclor 1242 #4 (front detector)
Average RF: 1.46765e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.46765e+008



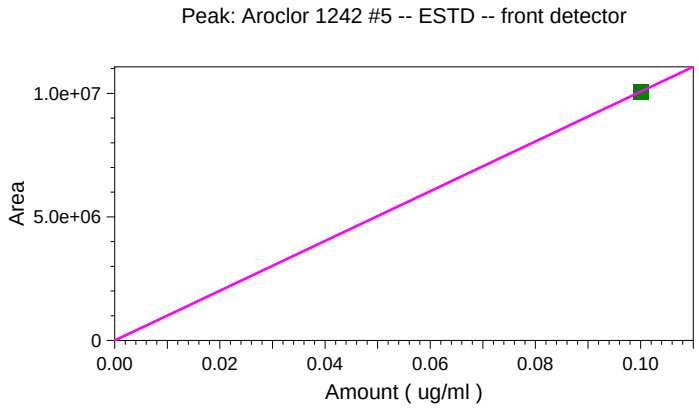
	Level 1	Level 11
Amount	0.1	0
Area	14676452	
RF	146764520	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	14676452	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\014.dat	
Rep 1 Sample ID	PCB 1242 CF PP 3043	
Rep 1 Calib. Time	11/12/2010 8:49:48 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1242.met
Print Time: 11/17/2010 1:49:07 PM
User: jjy
Instrument: Semi 7

Aroclor 1242 #5 (front detector)
Average RF: 1.00686e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.00686e+008



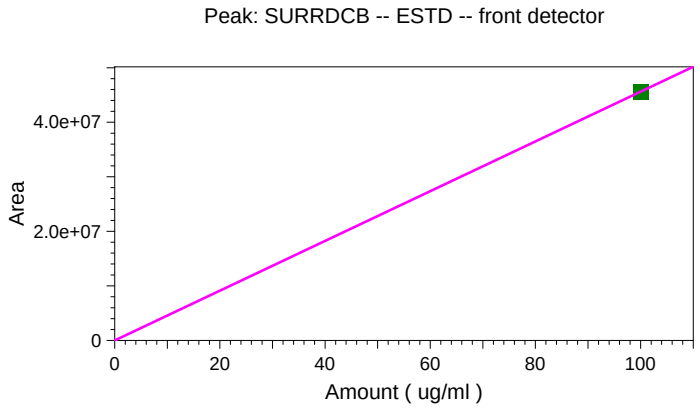
	Level 1
Amount	0.1
Area	10068554
RF	100685540
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	10068554
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\014.dat
Rep 1 Sample ID	PCB 1242 CF PP 3043
Rep 1 Calib. Time	11/12/2010 8:49:48 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1242.met
Print Time: 11/17/2010 1:49:10 PM
User: jjy
Instrument: Semi 7

SURRDCB (front detector)
Average RF: 456072.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 456072.



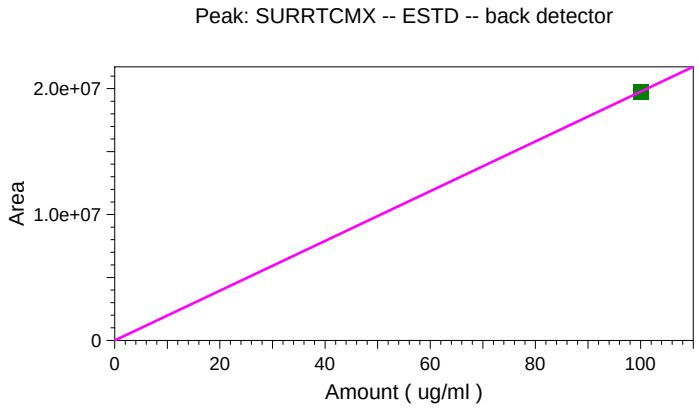
	Level 1
Amount	100
Area	45607215
RF	456072.15
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	45607215
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\014.dat
Rep 1 Sample ID	PCB 1242 CF PP 3043
Rep 1 Calib. Time	11/12/2010 8:49:48 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1242.met
Print Time: 11/17/2010 1:49:24 PM
User: jjy
Instrument: Semi 7

SURRTCMX (back detector)
Average RF: 197642.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 197642.



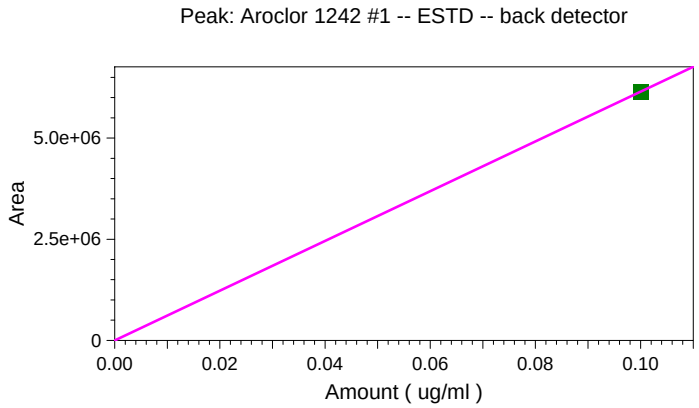
	Level 1	Level 11
Amount	100	0
Area	19764225	
RF	197642.25	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	19764225	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\014.dat	
Rep 1 Sample ID	PCB 1242 CF PP 3043	
Rep 1 Calib. Time	11/12/2010 8:49:48 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1242.met
Print Time: 11/17/2010 1:49:28 PM
User: jjy
Instrument: Semi 7

Aroclor 1242 #1 (back detector)
Average RF: 6.14713e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 6.14713e+007



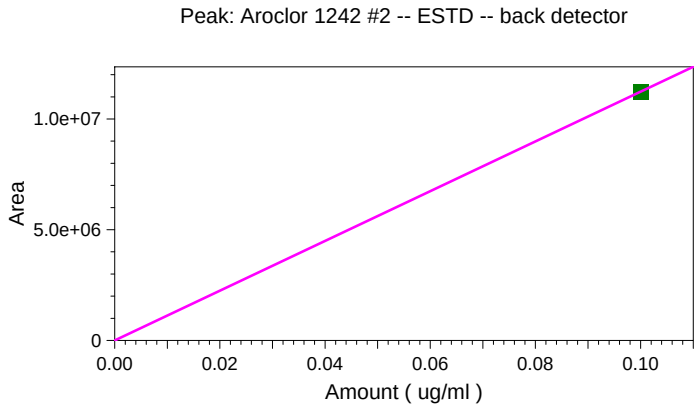
	Level 1	Level 11
Amount	0.1	0
Area	6147131	
RF	61471310	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	6147131	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\014.dat	
Rep 1 Sample ID	PCB 1242 CF PP 3043	
Rep 1 Calib. Time	11/12/2010 8:49:48 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1242.met
Print Time: 11/17/2010 1:49:31 PM
User: jjy
Instrument: Semi 7

Aroclor 1242 #2 (back detector)
Average RF: 1.12337e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.12337e+008



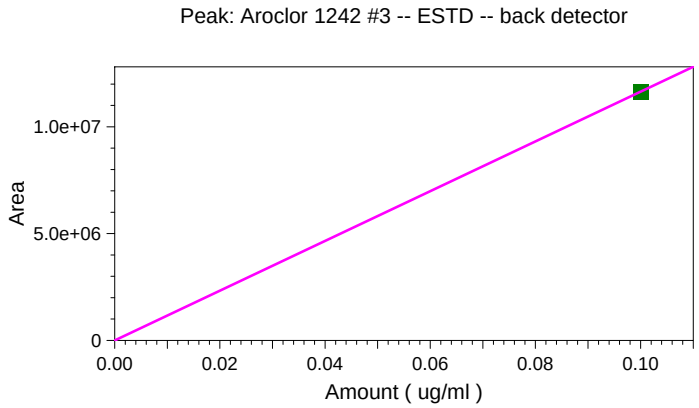
	Level 1	Level 11
Amount	0.1	0
Area	11233728	
RF	112337280	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	11233728	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\014.dat	
Rep 1 Sample ID	PCB 1242 CF PP 3043	
Rep 1 Calib. Time	11/12/2010 8:49:48 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1242.met
Print Time: 11/17/2010 1:49:35 PM
User: jjy
Instrument: Semi 7

Aroclor 1242 #3 (back detector)
Average RF: 1.16431e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.16431e+008



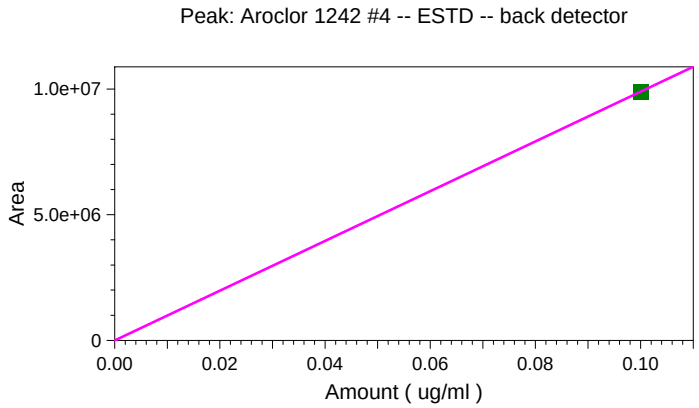
	Level 1	Level 11
Amount	0.1	0
Area	11643103	
RF	116431030	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	11643103	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\014.dat	
Rep 1 Sample ID	PCB 1242 CF PP 3043	
Rep 1 Calib. Time	11/12/2010 8:49:48 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1242.met
Print Time: 11/17/2010 1:49:38 PM
User: jjy
Instrument: Semi 7

Aroclor 1242 #4 (back detector)
Average RF: 9.89583e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 9.89583e+007



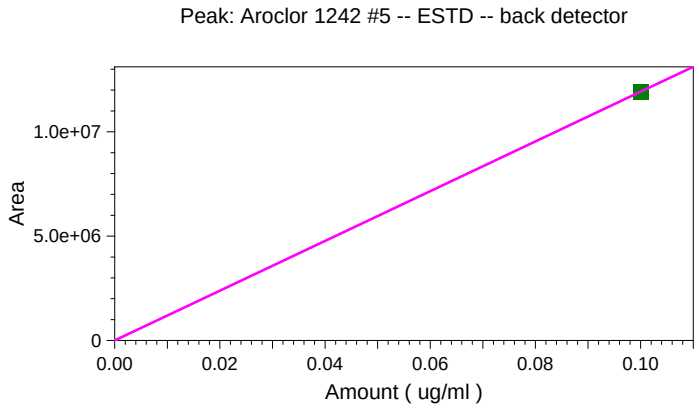
	Level 1	Level 11
Amount	0.1	0
Area	9895830	
RF	98958300	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	9895830	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\014.dat	
Rep 1 Sample ID	PCB 1242 CF PP 3043	
Rep 1 Calib. Time	11/12/2010 8:49:48 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1242.met
Print Time: 11/17/2010 1:49:42 PM
User: jjy
Instrument: Semi 7

Aroclor 1242 #5 (back detector)
Average RF: 1.19238e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.19238e+008



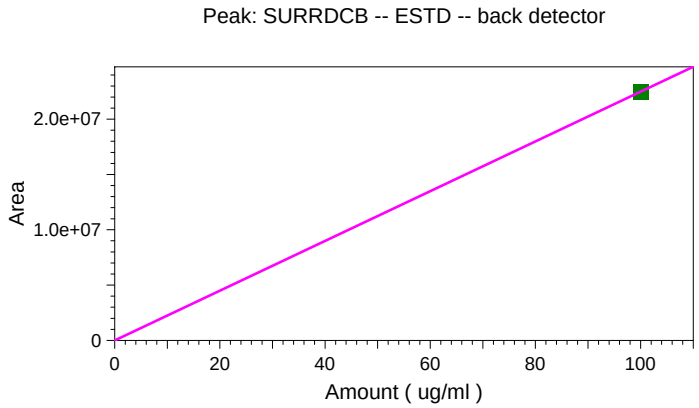
	Level 1
Amount	0.1
Area	11923842
RF	119238420
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	11923842
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\014.dat
Rep 1 Sample ID	PCB 1242 CF PP 3043
Rep 1 Calib. Time	11/12/2010 8:49:48 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1242.met
Print Time: 11/17/2010 1:49:46 PM
User: jjy
Instrument: Semi 7

SURRDCB (back detector)
Average RF: 224875.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 224875.



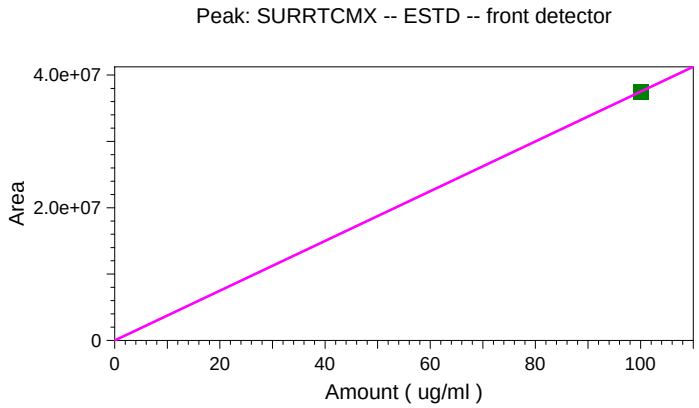
	Level 1
Amount	100
Area	22487451
RF	224874.51
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	22487451
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\014.dat
Rep 1 Sample ID	PCB 1242 CF PP 3043
Rep 1 Calib. Time	11/12/2010 8:49:48 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1248.met
Print Time: 11/17/2010 1:50:24 PM
User: jjy
Instrument: Semi 7

SURRTCMX (front detector)
Average RF: 374981.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 374981.



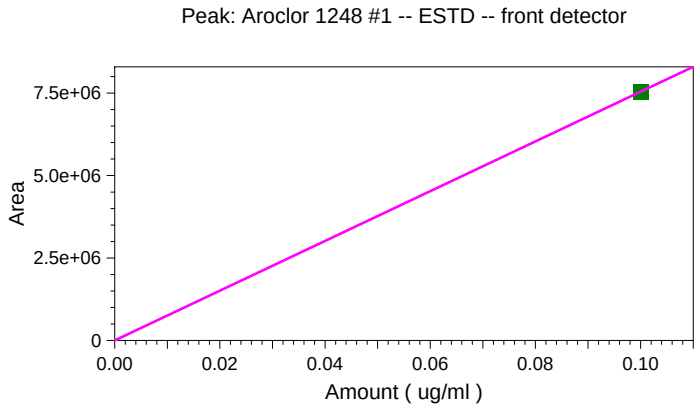
	Level 1	Level 11
Amount	100	0
Area	37498125	
RF	374981.25	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	37498125	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\015.dat	
Rep 1 Sample ID	PCB 1248 CF PP 3044	
Rep 1 Calib. Time	11/12/2010 8:50:04 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1248.met
Print Time: 11/17/2010 1:50:30 PM
User: jjy
Instrument: Semi 7

Aroclor 1248 #1 (front detector)
Average RF: 7.54449e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 7.54449e+007



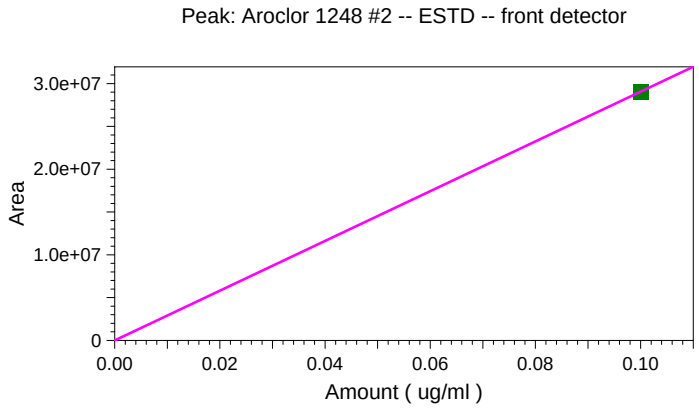
	Level 1	Level 11
Amount	0.1	0
Area	7544494	
RF	75444940	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	7544494	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\015.dat	
Rep 1 Sample ID	PCB 1248 CF PP 3044	
Rep 1 Calib. Time	11/12/2010 8:50:04 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1248.met
Print Time: 11/17/2010 1:50:33 PM
User: jjy
Instrument: Semi 7

Aroclor 1248 #2 (front detector)
Average RF: 2.90586e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 2.90586e+008



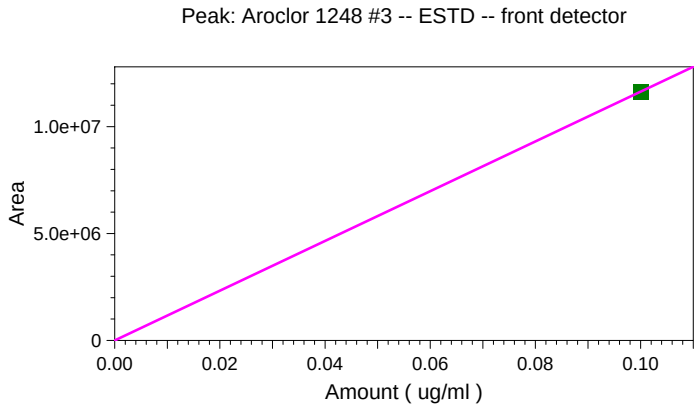
	Level 1	Level 11
Amount	0.1	0
Area	29058607	
RF	290586070	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	29058607	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\015.dat	
Rep 1 Sample ID	PCB 1248 CF PP 3044	
Rep 1 Calib. Time	11/12/2010 8:50:04 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1248.met
Print Time: 11/17/2010 1:50:38 PM
User: jjy
Instrument: Semi 7

Aroclor 1248 #3 (front detector)
Average RF: 1.16351e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.16351e+008



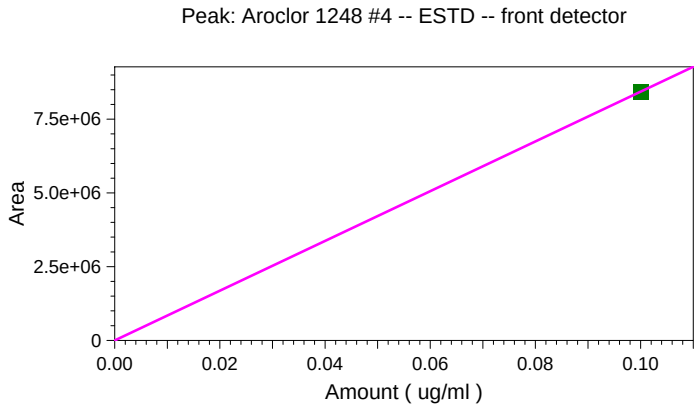
	Level 1	Level 11
Amount	0.1	0
Area	11635053	
RF	116350530	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	11635053	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\015.dat	
Rep 1 Sample ID	PCB 1248 CF PP 3044	
Rep 1 Calib. Time	11/12/2010 8:50:04 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1248.met
Print Time: 11/17/2010 1:50:42 PM
User: jjy
Instrument: Semi 7

Aroclor 1248 #4 (front detector)
Average RF: 8.43159e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 8.43159e+007



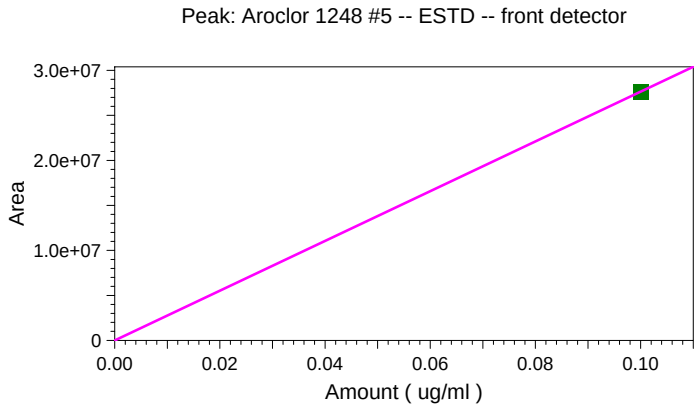
	Level 1	Level 11
Amount	0.1	0
Area	8431591	
RF	84315910	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	8431591	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\015.dat	
Rep 1 Sample ID	PCB 1248 CF PP 3044	
Rep 1 Calib. Time	11/12/2010 8:50:04 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1248.met
Print Time: 11/17/2010 1:50:45 PM
User: jjy
Instrument: Semi 7

Aroclor 1248 #5 (front detector)
Average RF: 2.76346e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 2.76346e+008



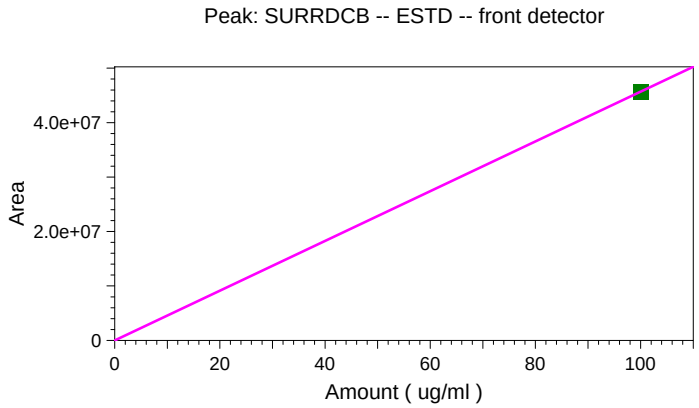
	Level 1
Amount	0.1
Area	27634595
RF	276345950
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	27634595
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\015.dat
Rep 1 Sample ID	PCB 1248 CF PP 3044
Rep 1 Calib. Time	11/12/2010 8:50:04 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1248.met
Print Time: 11/17/2010 1:50:49 PM
User: jjy
Instrument: Semi 7

SURRDCB (front detector)
Average RF: 456817.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 456817.



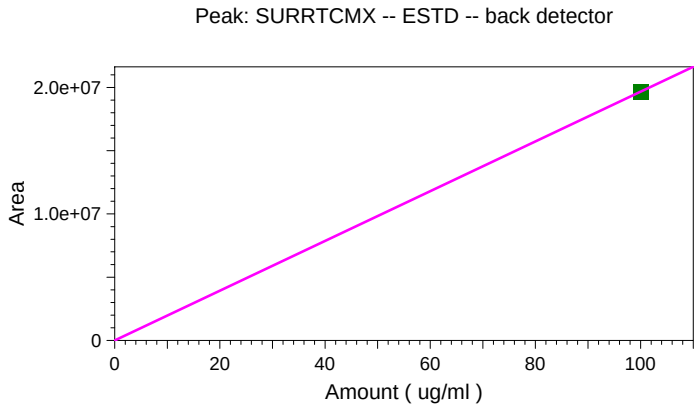
	Level 1
Amount	100
Area	45681722
RF	456817.22
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	45681722
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\015.dat
Rep 1 Sample ID	PCB 1248 CF PP 3044
Rep 1 Calib. Time	11/12/2010 8:50:04 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1248.met
Print Time: 11/17/2010 1:50:57 PM
User: jjy
Instrument: Semi 7

SURRTCMX (back detector)
Average RF: 196673.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 196673.



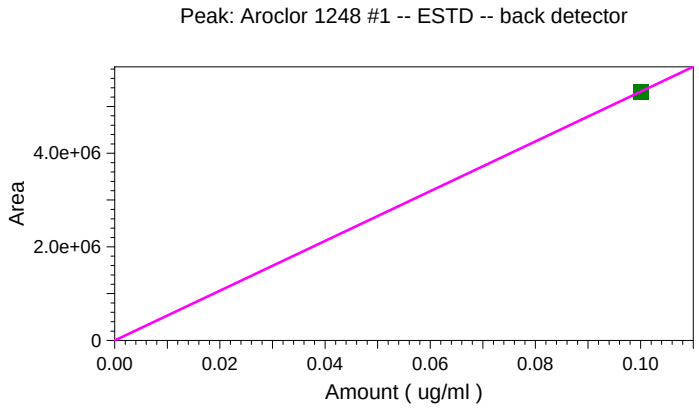
	Level 1	Level 11
Amount	100	0
Area	19667257	
RF	196672.57	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	19667257	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\015.dat	
Rep 1 Sample ID	PCB 1248 CF PP 3044	
Rep 1 Calib. Time	11/12/2010 8:50:04 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1248.met
Print Time: 11/17/2010 1:51:02 PM
User: jjy
Instrument: Semi 7

Aroclor 1248 #1 (back detector)
Average RF: 5.31640e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 5.31640e+007



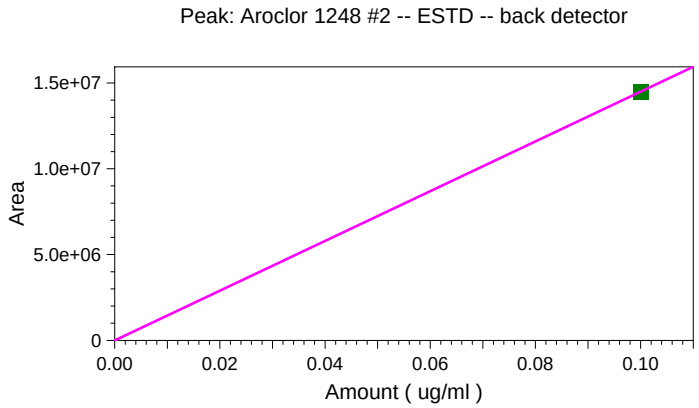
	Level 1	Level 11
Amount	0.1	0
Area	5316395	
RF	53163950	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	5316395	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\015.dat	
Rep 1 Sample ID	PCB 1248 CF PP 3044	
Rep 1 Calib. Time	11/12/2010 8:50:04 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1248.met
Print Time: 11/17/2010 1:51:05 PM
User: jjy
Instrument: Semi 7

Aroclor 1248 #2 (back detector)
Average RF: 1.44953e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.44953e+008



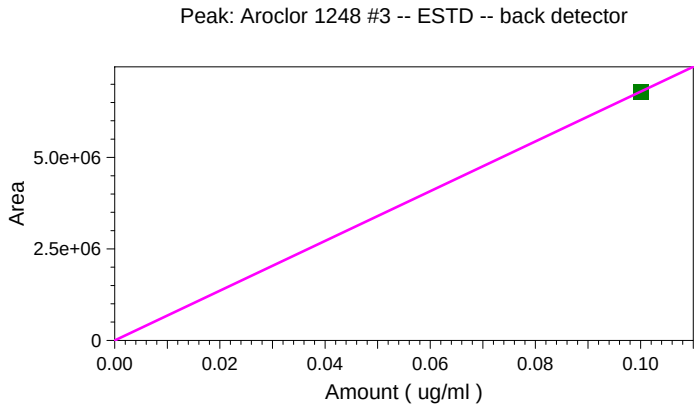
	Level 1	Level 11
Amount	0.1	0
Area	14495289	
RF	144952890	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	14495289	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\015.dat	
Rep 1 Sample ID	PCB 1248 CF PP 3044	
Rep 1 Calib. Time	11/12/2010 8:50:04 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1248.met
Print Time: 11/17/2010 1:51:09 PM
User: jjy
Instrument: Semi 7

Aroclor 1248 #3 (back detector)
Average RF: 6.79637e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 6.79637e+007



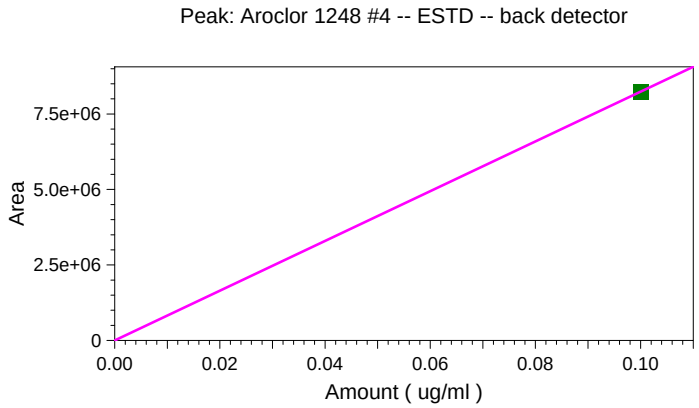
	Level 1	Level 11
Amount	0.1	0
Area	6796372	
RF	67963720	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	6796372	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\015.dat	
Rep 1 Sample ID	PCB 1248 CF PP 3044	
Rep 1 Calib. Time	11/12/2010 8:50:04 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1248.met
Print Time: 11/17/2010 1:51:12 PM
User: jjy
Instrument: Semi 7

Aroclor 1248 #4 (back detector)
Average RF: 8.23934e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 8.23934e+007



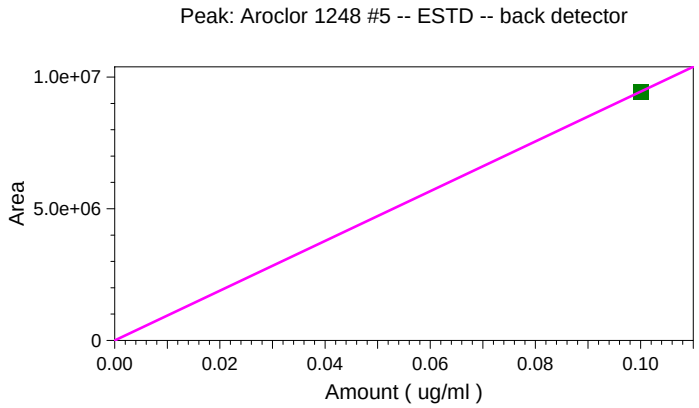
	Level 1	Level 11
Amount	0.1	0
Area	8239344	
RF	82393440	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	8239344	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\015.dat	
Rep 1 Sample ID	PCB 1248 CF PP 3044	
Rep 1 Calib. Time	11/12/2010 8:50:04 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1248.met
Print Time: 11/17/2010 1:51:15 PM
User: jjy
Instrument: Semi 7

Aroclor 1248 #5 (back detector)
Average RF: 9.44564e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 9.44564e+007



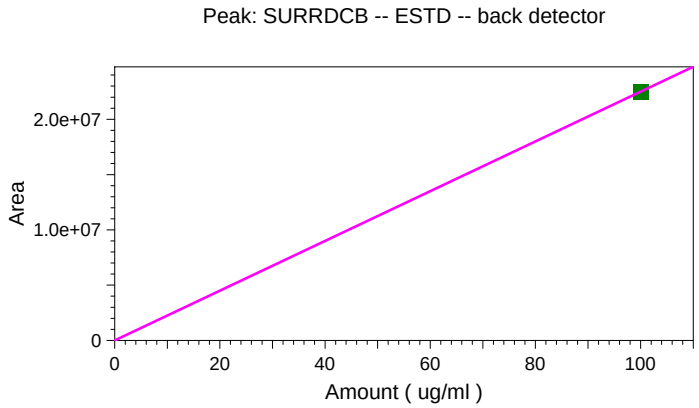
	Level 1
Amount	0.1
Area	9445636
RF	94456360
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	9445636
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\015.dat
Rep 1 Sample ID	PCB 1248 CF PP 3044
Rep 1 Calib. Time	11/12/2010 8:50:04 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1248.met
Print Time: 11/17/2010 1:51:20 PM
User: jjy
Instrument: Semi 7

SURRDCB (back detector)
Average RF: 224998.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 224998.



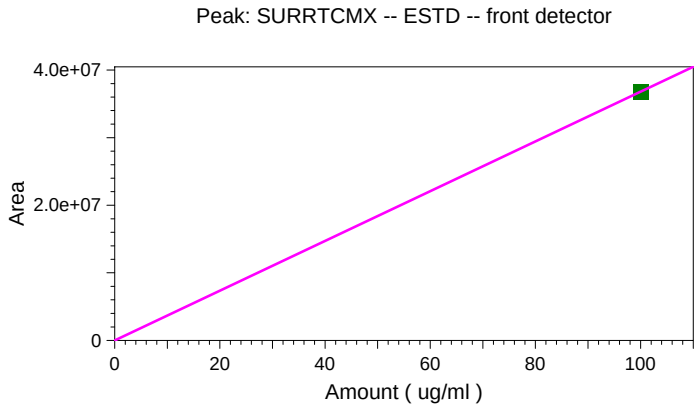
	Level 1
Amount	100
Area	22499817
RF	224998.17
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	22499817
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\015.dat
Rep 1 Sample ID	PCB 1248 CF PP 3044
Rep 1 Calib. Time	11/12/2010 8:50:04 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1254.met
Print Time: 11/17/2010 1:51:49 PM
User: jjy
Instrument: Semi 7

SURRTCMX (front detector)
Average RF: 368029.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 368029.



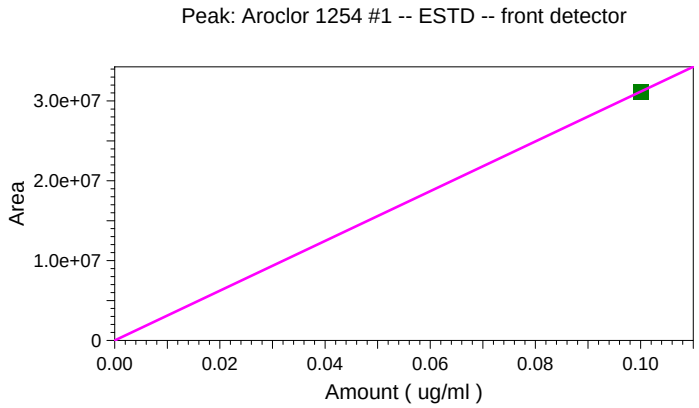
	Level 1	Level 11
Amount	100	0
Area	36802940	
RF	368029.4	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	36802940	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\016.dat	
Rep 1 Sample ID	PCB 1254 CF PP 3045	
Rep 1 Calib. Time	11/12/2010 8:50:18 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1254.met
Print Time: 11/17/2010 1:51:54 PM
User: jjy
Instrument: Semi 7

Aroclor 1254 #1 (front detector)
Average RF: 3.11688e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 3.11688e+008



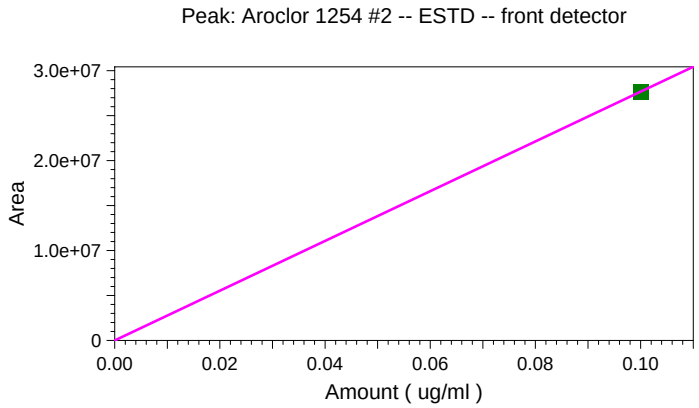
	Level 1	Level 11
Amount	0.1	0
Area	31168777	
RF	311687770	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	31168777	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\016.dat	
Rep 1 Sample ID	PCB 1254 CF PP 3045	
Rep 1 Calib. Time	11/12/2010 8:50:18 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1254.met
Print Time: 11/17/2010 1:51:58 PM
User: jjy
Instrument: Semi 7

Aroclor 1254 #2 (front detector)
Average RF: 2.76693e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 2.76693e+008



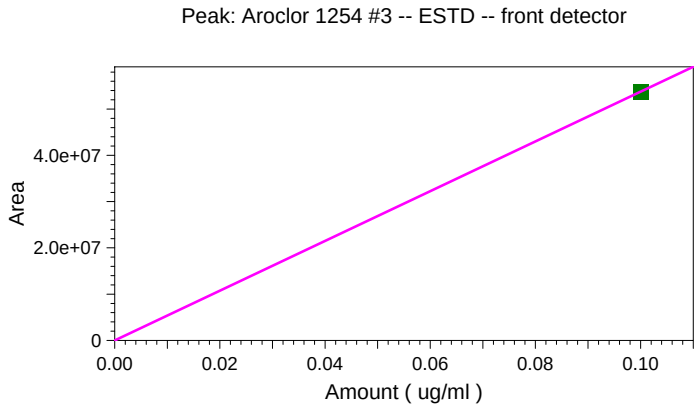
	Level 1	Level 11
Amount	0.1	0
Area	27669320	
RF	276693200	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	27669320	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\016.dat	
Rep 1 Sample ID	PCB 1254 CF PP 3045	
Rep 1 Calib. Time	11/12/2010 8:50:18 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1254.met
Print Time: 11/17/2010 1:52:01 PM
User: jjy
Instrument: Semi 7

Aroclor 1254 #3 (front detector)
Average RF: 5.37604e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 5.37604e+008



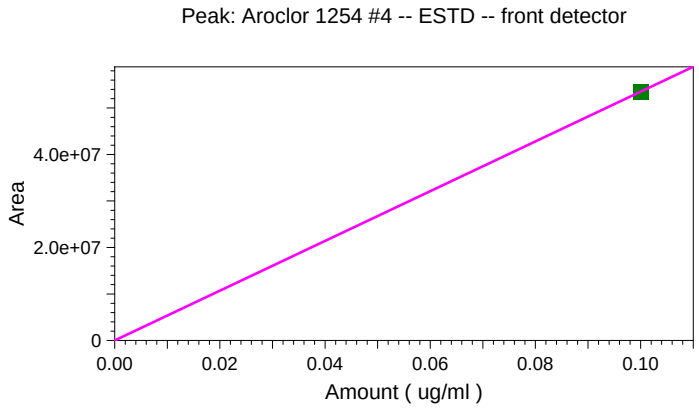
	Level 1	Level 11
Amount	0.1	0
Area	53760384	
RF	537603840	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	53760384	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\016.dat	
Rep 1 Sample ID	PCB 1254 CF PP 3045	
Rep 1 Calib. Time	11/12/2010 8:50:18 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1254.met
Print Time: 11/17/2010 1:52:05 PM
User: jjy
Instrument: Semi 7

Aroclor 1254 #4 (front detector)
Average RF: 5.35175e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 5.35175e+008



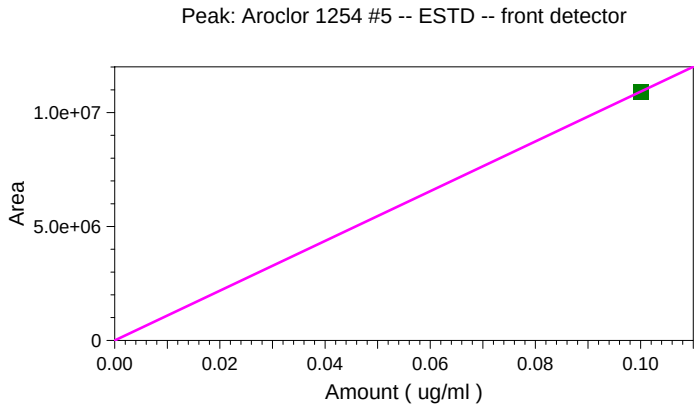
	Level 1	Level 11
Amount	0.1	0
Area	53517485	
RF	535174850	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	53517485	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\016.dat	
Rep 1 Sample ID	PCB 1254 CF PP 3045	
Rep 1 Calib. Time	11/12/2010 8:50:18 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1254.met
Print Time: 11/17/2010 1:52:09 PM
User: jjy
Instrument: Semi 7

Aroclor 1254 #5 (front detector)
Average RF: 1.09188e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.09188e+008



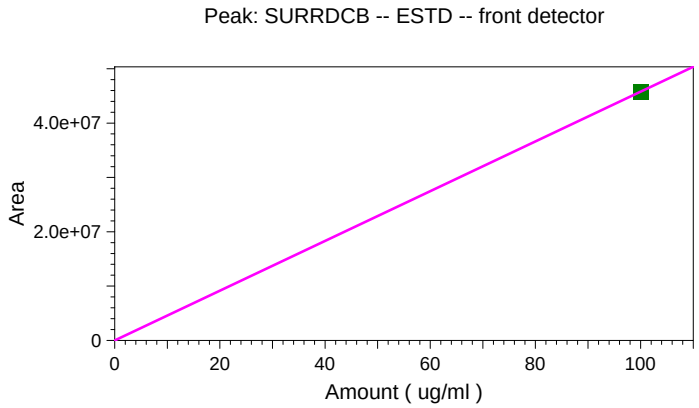
	Level 1
Amount	0.1
Area	10918796
RF	109187960
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	10918796
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\016.dat
Rep 1 Sample ID	PCB 1254 CF PP 3045
Rep 1 Calib. Time	11/12/2010 8:50:18 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1254.met
Print Time: 11/17/2010 1:52:12 PM
User: jjy
Instrument: Semi 7

SURRDCB (front detector)
Average RF: 457880.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 457880.



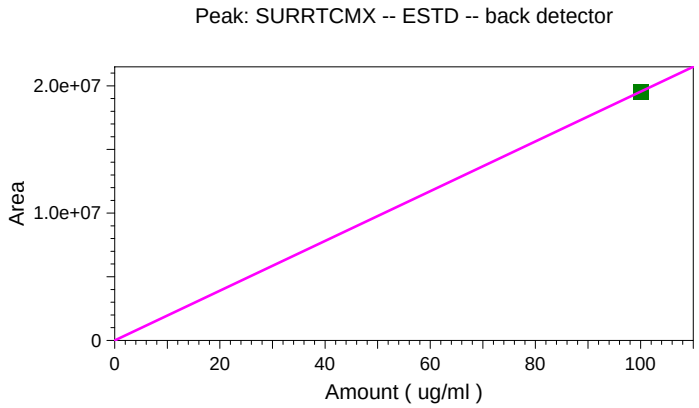
	Level 1
Amount	100
Area	45787981
RF	457879.81
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	45787981
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\016.dat
Rep 1 Sample ID	PCB 1254 CF PP 3045
Rep 1 Calib. Time	11/12/2010 8:50:18 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1254.met
Print Time: 11/17/2010 1:52:22 PM
User: jjy
Instrument: Semi 7

SURRTCMX (back detector)
Average RF: 195390.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 195390.



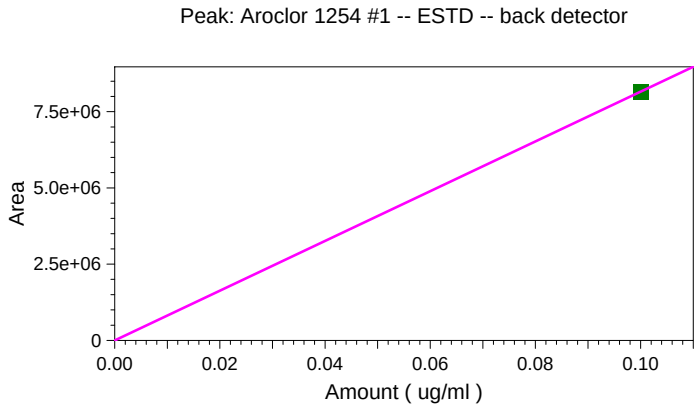
	Level 1	Level 11
Amount	100	0
Area	19538986	
RF	195389.86	
Last Area		
Residual	-1.42109e-014	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	19538986	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\016.dat	
Rep 1 Sample ID	PCB 1254 CF PP 3045	
Rep 1 Calib. Time	11/12/2010 8:50:18 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1254.met
Print Time: 11/17/2010 1:52:26 PM
User: jjy
Instrument: Semi 7

Aroclor 1254 #1 (back detector)
Average RF: 8.15535e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 8.15535e+007



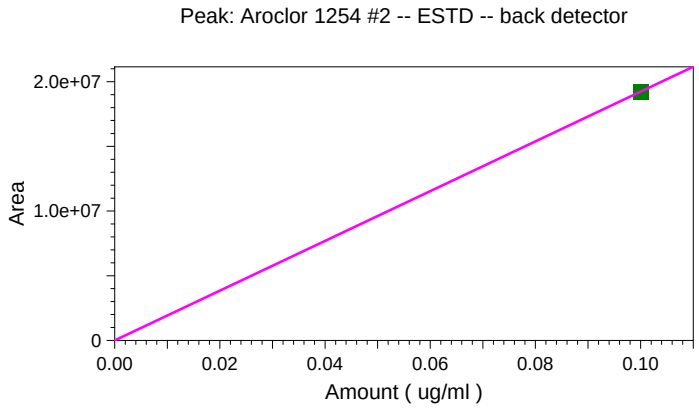
	Level 1	Level 11
Amount	0.1	0
Area	8155349	
RF	81553490	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	8155349	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\016.dat	
Rep 1 Sample ID	PCB 1254 CF PP 3045	
Rep 1 Calib. Time	11/12/2010 8:50:18 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1254.met
Print Time: 11/17/2010 1:52:30 PM
User: jjy
Instrument: Semi 7

Aroclor 1254 #2 (back detector)
Average RF: 1.92314e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.92314e+008



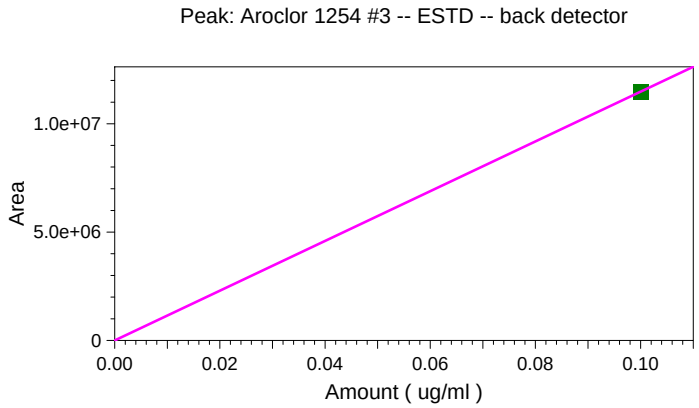
	Level 1	Level 11
Amount	0.1	0
Area	19231434	
RF	192314340	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	19231434	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\016.dat	
Rep 1 Sample ID	PCB 1254 CF PP 3045	
Rep 1 Calib. Time	11/12/2010 8:50:18 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1254.met
Print Time: 11/17/2010 1:52:33 PM
User: jjy
Instrument: Semi 7

Aroclor 1254 #3 (back detector)
Average RF: 1.14814e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.14814e+008



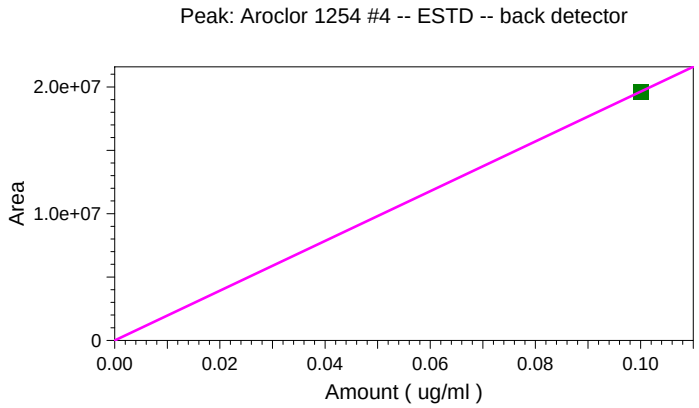
	Level 1	Level 11
Amount	0.1	0
Area	11481433	
RF	114814330	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	11481433	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\016.dat	
Rep 1 Sample ID	PCB 1254 CF PP 3045	
Rep 1 Calib. Time	11/12/2010 8:50:18 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1254.met
Print Time: 11/17/2010 1:52:36 PM
User: jjy
Instrument: Semi 7

Aroclor 1254 #4 (back detector)
Average RF: 1.96243e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.96243e+008



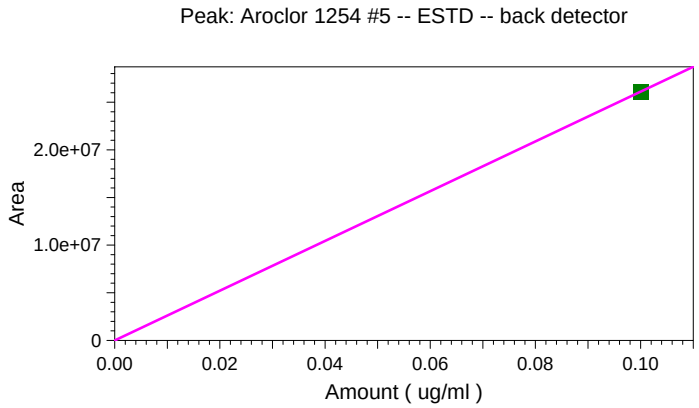
	Level 1	Level 11
Amount	0.1	0
Area	19624344	
RF	196243440	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	19624344	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\016.dat	
Rep 1 Sample ID	PCB 1254 CF PP 3045	
Rep 1 Calib. Time	11/12/2010 8:50:18 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1254.met
Print Time: 11/17/2010 1:52:40 PM
User: jjy
Instrument: Semi 7

Aroclor 1254 #5 (back detector)
Average RF: 2.61056e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 2.61056e+008



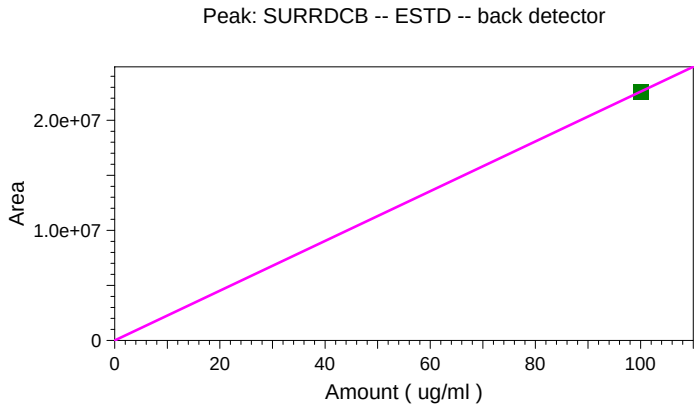
	Level 1
Amount	0.1
Area	26105580
RF	261055800
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	26105580
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\016.dat
Rep 1 Sample ID	PCB 1254 CF PP 3045
Rep 1 Calib. Time	11/12/2010 8:50:18 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1254.met
Print Time: 11/17/2010 1:52:44 PM
User: jjy
Instrument: Semi 7

SURRDCB (back detector)
Average RF: 225994.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 225994.



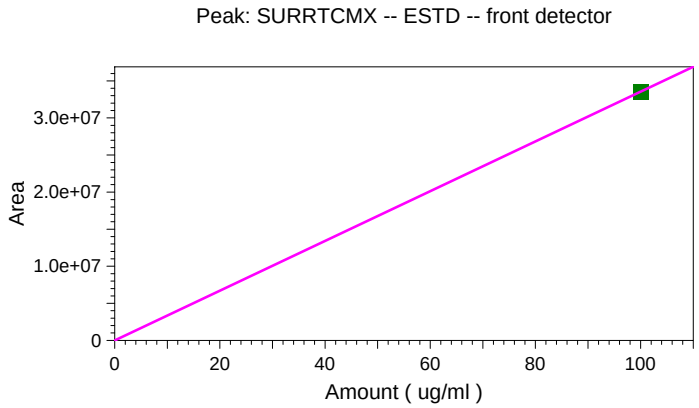
	Level 1
Amount	100
Area	22599379
RF	225993.79
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	22599379
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\016.dat
Rep 1 Sample ID	PCB 1254 CF PP 3045
Rep 1 Calib. Time	11/12/2010 8:50:18 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1262.met
Print Time: 11/17/2010 1:53:10 PM
User: jjy
Instrument: Semi 7

SURRTCMX (front detector)
Average RF: 335455.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 335455.



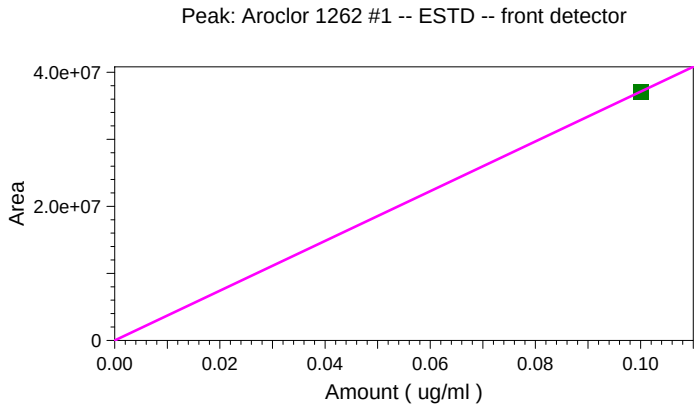
	Level 1	Level 11
Amount	100	0
Area	33545486	
RF	335454.86	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	33545486	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\017.dat	
Rep 1 Sample ID	PCB 1262 CF PP 3046	
Rep 1 Calib. Time	11/12/2010 8:50:33 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1262.met
Print Time: 11/17/2010 1:53:16 PM
User: jjy
Instrument: Semi 7

Aroclor 1262 #1 (front detector)
Average RF: 3.71048e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 3.71048e+008



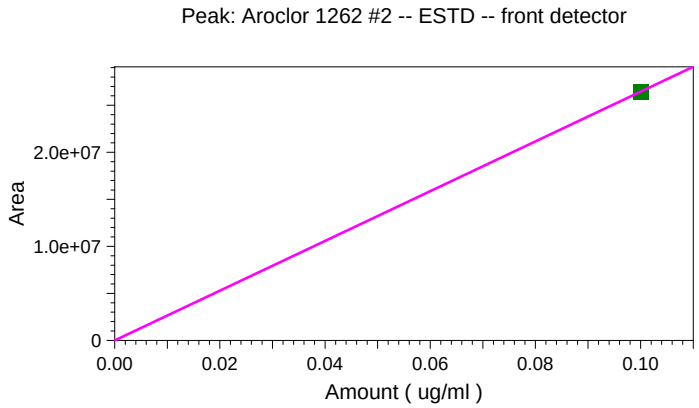
	Level 1	Level 11
Amount	0.1	0
Area	37104811	
RF	371048110	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	37104811	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\017.dat	
Rep 1 Sample ID	PCB 1262 CF PP 3046	
Rep 1 Calib. Time	11/12/2010 8:50:33 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1262.met
Print Time: 11/17/2010 1:53:20 PM
User: jjy
Instrument: Semi 7

Aroclor 1262 #2 (front detector)
Average RF: 2.64470e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 2.64470e+008



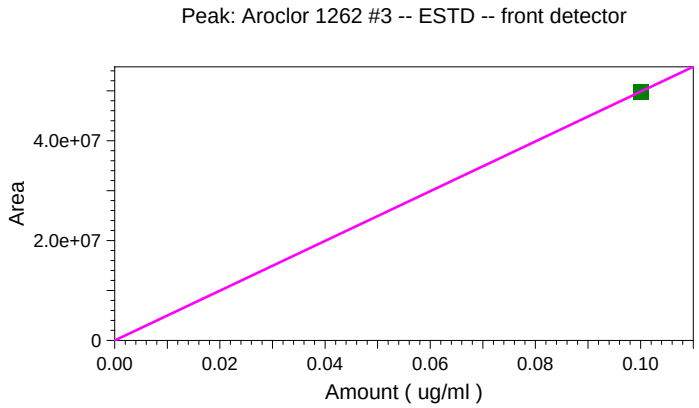
	Level 1	Level 11
Amount	0.1	0
Area	26447008	
RF	264470080	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	26447008	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\017.dat	
Rep 1 Sample ID	PCB 1262 CF PP 3046	
Rep 1 Calib. Time	11/12/2010 8:50:33 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1262.met
Print Time: 11/17/2010 1:53:25 PM
User: jjy
Instrument: Semi 7

Aroclor 1262 #3 (front detector)
Average RF: 4.98272e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 4.98272e+008



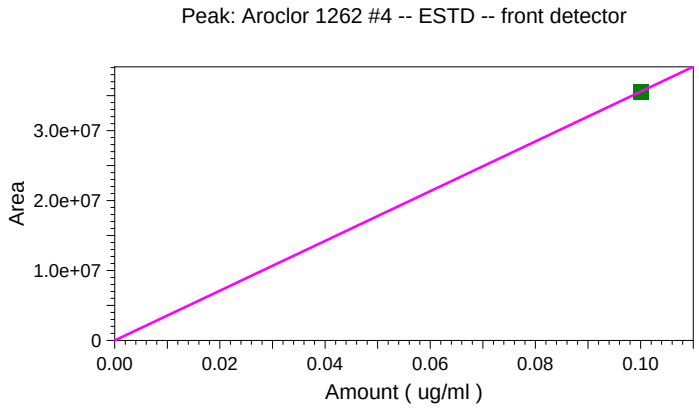
	Level 1	Level 11
Amount	0.1	0
Area	49827180	
RF	498271800	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	49827180	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\017.dat	
Rep 1 Sample ID	PCB 1262 CF PP 3046	
Rep 1 Calib. Time	11/12/2010 8:50:33 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1262.met
Print Time: 11/17/2010 1:53:32 PM
User: jjy
Instrument: Semi 7

Aroclor 1262 #4 (front detector)
Average RF: 3.55649e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 3.55649e+008



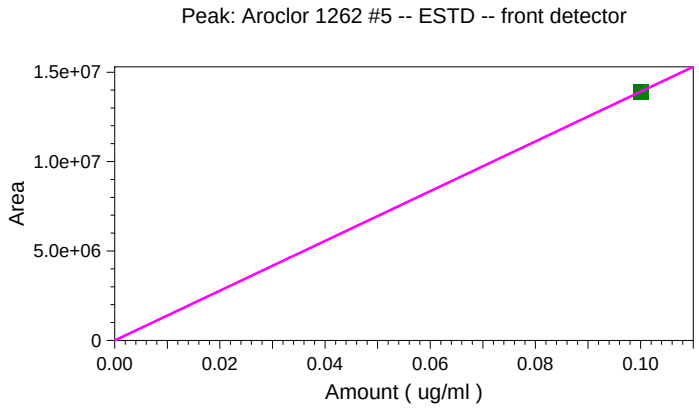
	Level 1	Level 11
Amount	0.1	0
Area	35564856	
RF	355648560	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	35564856	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\017.dat	
Rep 1 Sample ID	PCB 1262 CF PP 3046	
Rep 1 Calib. Time	11/12/2010 8:50:33 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1262.met
Print Time: 11/17/2010 1:53:35 PM
User: jjy
Instrument: Semi 7

Aroclor 1262 #5 (front detector)
Average RF: 1.39096e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.39096e+008



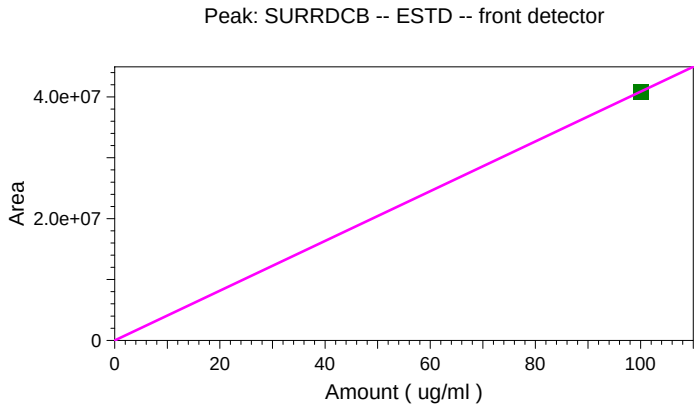
	Level 1
Amount	0.1
Area	13909618
RF	139096180
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	13909618
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\017.dat
Rep 1 Sample ID	PCB 1262 CF PP 3046
Rep 1 Calib. Time	11/12/2010 8:50:33 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1262.met
Print Time: 11/17/2010 1:53:40 PM
User: jjy
Instrument: Semi 7

SURRDCB (front detector)
Average RF: 408617.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 408617.



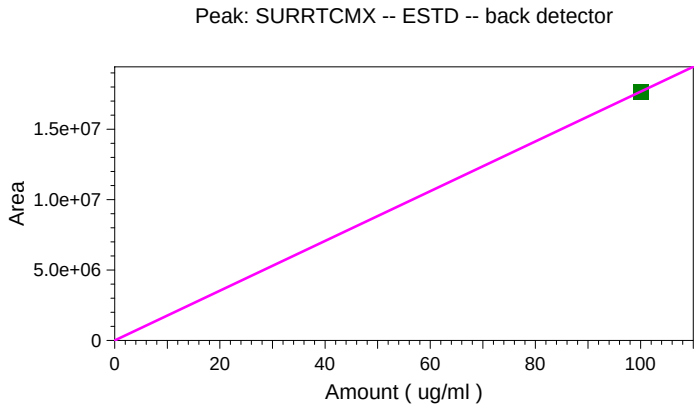
	Level 1
Amount	100
Area	40861662
RF	408616.62
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	40861662
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\017.dat
Rep 1 Sample ID	PCB 1262 CF PP 3046
Rep 1 Calib. Time	11/12/2010 8:50:33 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1262.met
Print Time: 11/17/2010 1:53:49 PM
User: jjy
Instrument: Semi 7

SURRTCMX (back detector)
Average RF: 176655.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 176655.



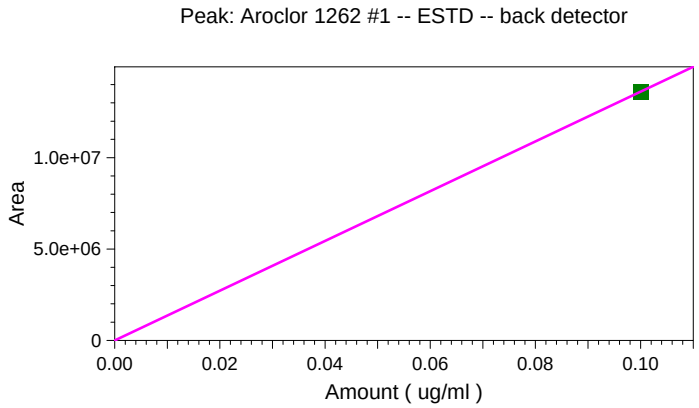
	Level 1	Level 11
Amount	100	0
Area	17665491	
RF	176654.91	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	17665491	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\017.dat	
Rep 1 Sample ID	PCB 1262 CF PP 3046	
Rep 1 Calib. Time	11/12/2010 8:50:33 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1262.met
Print Time: 11/17/2010 1:53:52 PM
User: jjy
Instrument: Semi 7

Aroclor 1262 #1 (back detector)
Average RF: 1.36130e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.36130e+008



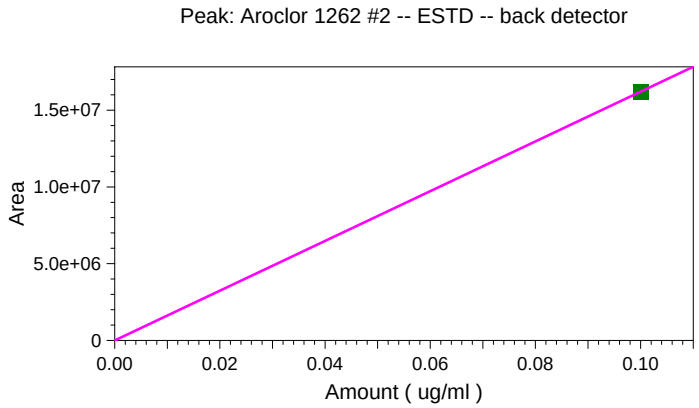
	Level 1	Level 11
Amount	0.1	0
Area	13613017	
RF	136130170	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	13613017	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\017.dat	
Rep 1 Sample ID	PCB 1262 CF PP 3046	
Rep 1 Calib. Time	11/12/2010 8:50:33 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1262.met
Print Time: 11/17/2010 1:53:55 PM
User: jjy
Instrument: Semi 7

Aroclor 1262 #2 (back detector)
Average RF: 1.62106e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.62106e+008



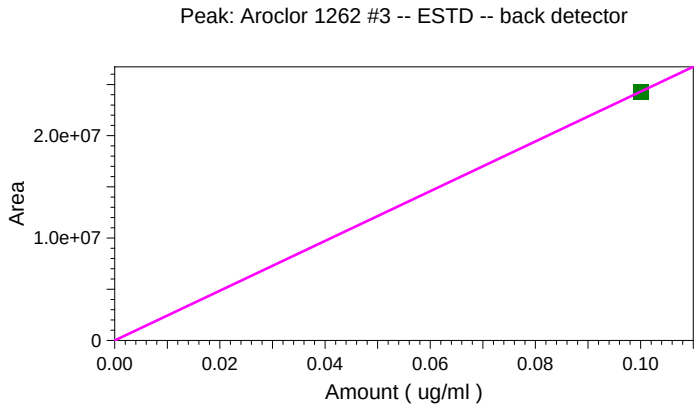
	Level 1	Level 11
Amount	0.1	0
Area	16210590	
RF	162105900	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	16210590	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\017.dat	
Rep 1 Sample ID	PCB 1262 CF PP 3046	
Rep 1 Calib. Time	11/12/2010 8:50:33 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1262.met
Print Time: 11/17/2010 1:53:59 PM
User: jjy
Instrument: Semi 7

Aroclor 1262 #3 (back detector)
Average RF: 2.42992e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 2.42992e+008



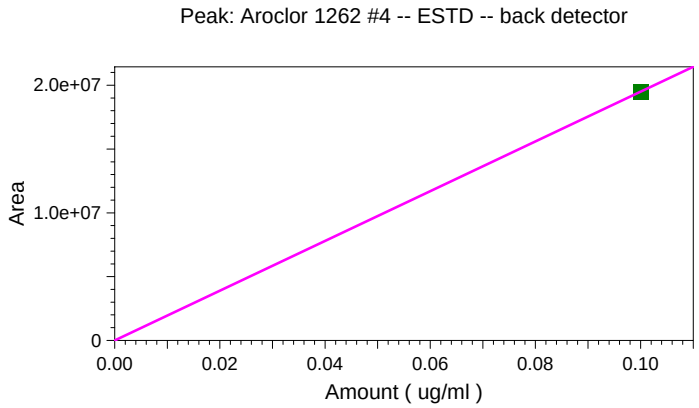
	Level 1	Level 11
Amount	0.1	0
Area	24299187	
RF	242991870	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	24299187	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\017.dat	
Rep 1 Sample ID	PCB 1262 CF PP 3046	
Rep 1 Calib. Time	11/12/2010 8:50:33 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1262.met
Print Time: 11/17/2010 1:54:02 PM
User: jjy
Instrument: Semi 7

Aroclor 1262 #4 (back detector)
Average RF: 1.94983e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.94983e+008



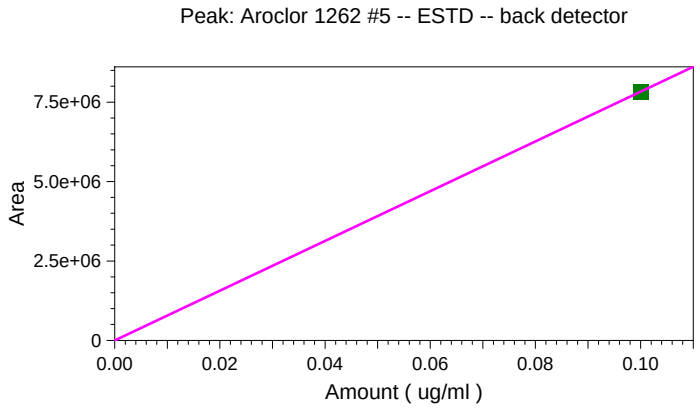
	Level 1	Level 11
Amount	0.1	0
Area	19498286	
RF	194982860	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	19498286	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\017.dat	
Rep 1 Sample ID	PCB 1262 CF PP 3046	
Rep 1 Calib. Time	11/12/2010 8:50:33 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1262.met
Print Time: 11/17/2010 1:54:06 PM
User: jjy
Instrument: Semi 7

Aroclor 1262 #5 (back detector)
Average RF: 7.82957e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 7.82957e+007



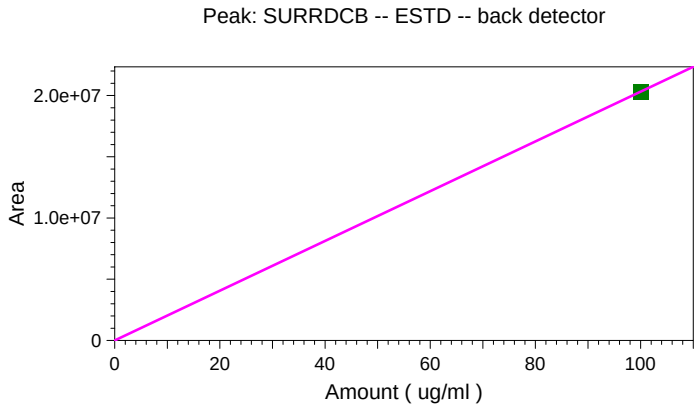
	Level 1
Amount	0.1
Area	7829570
RF	78295700
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	7829570
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\017.dat
Rep 1 Sample ID	PCB 1262 CF PP 3046
Rep 1 Calib. Time	11/12/2010 8:50:33 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1262.met
Print Time: 11/17/2010 1:54:09 PM
User: jjy
Instrument: Semi 7

SURRDCB (back detector)
Average RF: 203148.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 203148.



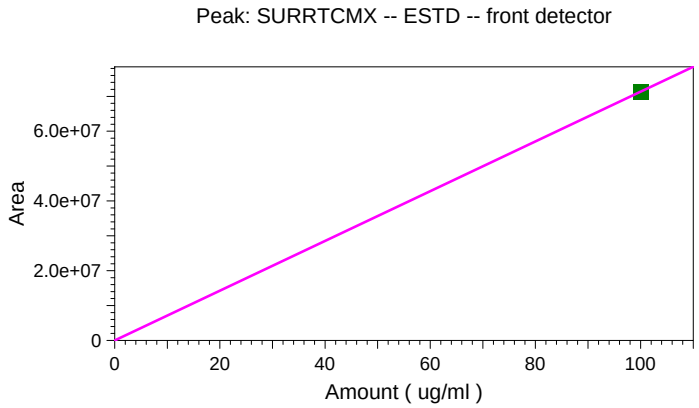
	Level 1
Amount	100
Area	20314759
RF	203147.59
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	20314759
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\017.dat
Rep 1 Sample ID	PCB 1262 CF PP 3046
Rep 1 Calib. Time	11/12/2010 8:50:33 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1268.met
Print Time: 11/17/2010 1:54:56 PM
User: jjy
Instrument: Semi 7

SURRTCMX (front detector)
Average RF: 713525.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 713525.



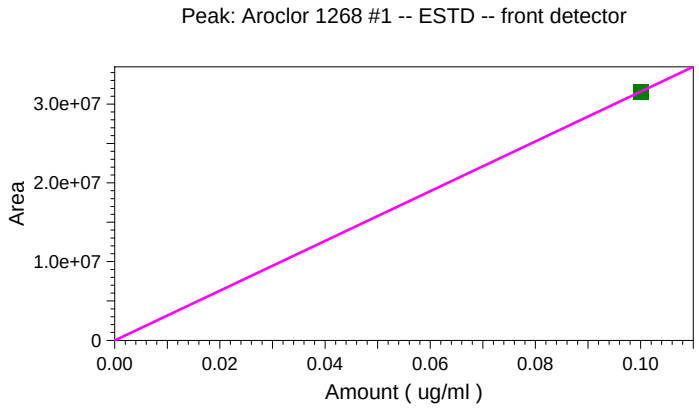
	Level 1	Level 11
Amount	100	0
Area	71352523	
RF	713525.23	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	71352523	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\018.dat	
Rep 1 Sample ID	PCB 1268 CF PP 3072	
Rep 1 Calib. Time	11/12/2010 8:50:47 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1268.met
Print Time: 11/17/2010 1:55:02 PM
User: jjy
Instrument: Semi 7

Aroclor 1268 #1 (front detector)
Average RF: 3.15782e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 3.15782e+008



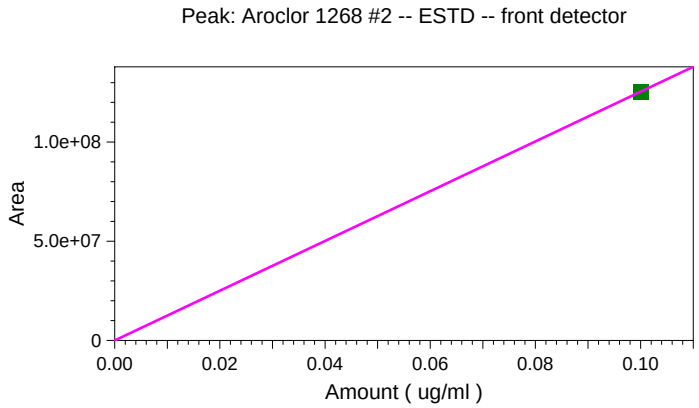
	Level 1	Level 11
Amount	0.1	0
Area	31578151	
RF	315781510	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	31578151	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\018.dat	
Rep 1 Sample ID	PCB 1268 CF PP 3072	
Rep 1 Calib. Time	11/12/2010 8:50:47 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1268.met
Print Time: 11/17/2010 1:55:09 PM
User: jjy
Instrument: Semi 7

Aroclor 1268 #2 (front detector)
Average RF: 1.25427e+009
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.25427e+009



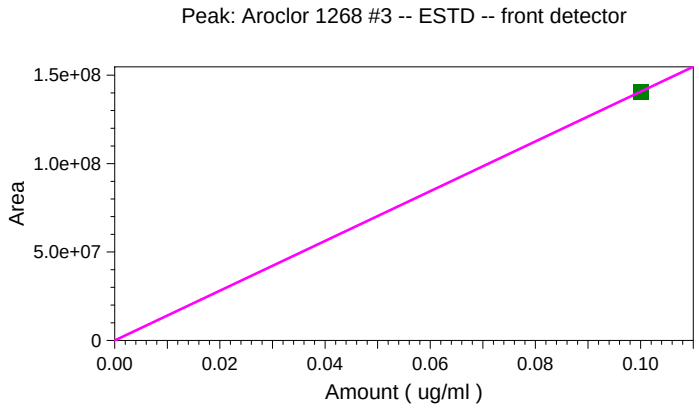
	Level 1	Level 11
Amount	0.1	0
Area	125426730	
RF	1254267300	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	125426730	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\018.dat	
Rep 1 Sample ID	PCB 1268 CF PP 3072	
Rep 1 Calib. Time	11/12/2010 8:50:47 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1268.met
Print Time: 11/17/2010 1:55:14 PM
User: jjy
Instrument: Semi 7

Aroclor 1268 #3 (front detector)
Average RF: 1.40711e+009
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.40711e+009



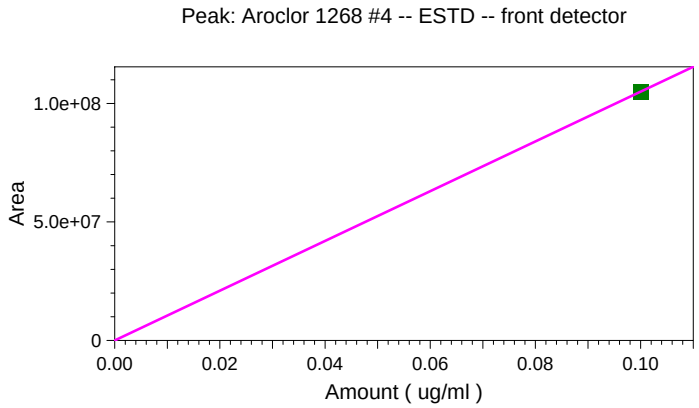
	Level 1	Level 11
Amount	0.1	0
Area	140711401	
RF	1407114010	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	140711401	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\018.dat	
Rep 1 Sample ID	PCB 1268 CF PP 3072	
Rep 1 Calib. Time	11/12/2010 8:50:47 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1268.met
Print Time: 11/17/2010 1:55:18 PM
User: jjy
Instrument: Semi 7

Aroclor 1268 #4 (front detector)
Average RF: 1.04995e+009
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.04995e+009



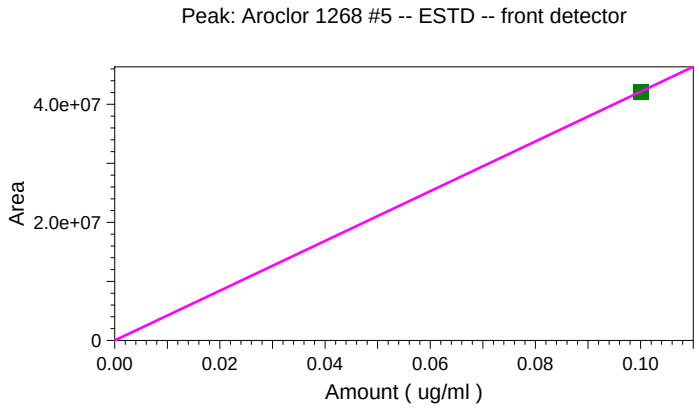
	Level 1	Level 11
Amount	0.1	0
Area	104994511	
RF	1049945110	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	104994511	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\018.dat	
Rep 1 Sample ID	PCB 1268 CF PP 3072	
Rep 1 Calib. Time	11/12/2010 8:50:47 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1268.met
Print Time: 11/17/2010 1:55:22 PM
User: jjy
Instrument: Semi 7

Aroclor 1268 #5 (front detector)
Average RF: 4.21465e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 4.21465e+008



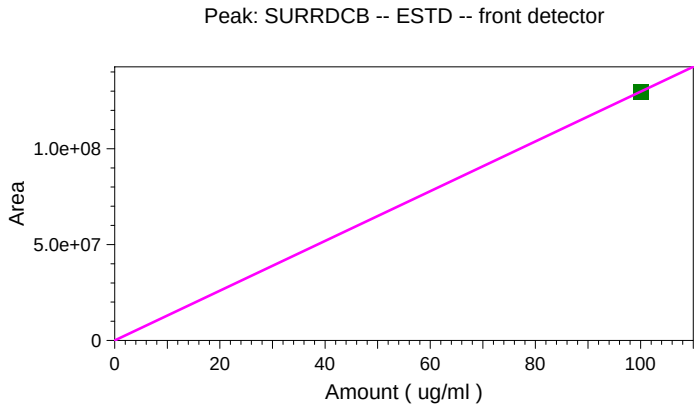
	Level 1
Amount	0.1
Area	42146476
RF	421464760
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	42146476
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\018.dat
Rep 1 Sample ID	PCB 1268 CF PP 3072
Rep 1 Calib. Time	11/12/2010 8:50:47 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1268.met
Print Time: 11/17/2010 1:55:26 PM
User: jjy
Instrument: Semi 7

SURRDCB (front detector)
Average RF: 1.29738e+006
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.29738e+006



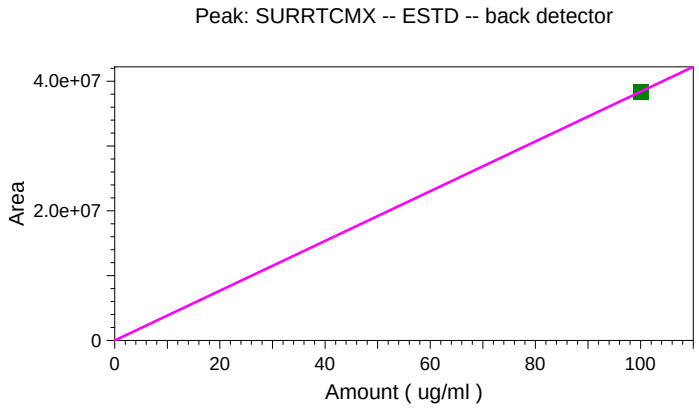
	Level 1
Amount	100
Area	129737545
RF	1297375.45
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	129737545
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\018.dat
Rep 1 Sample ID	PCB 1268 CF PP 3072
Rep 1 Calib. Time	11/12/2010 8:50:47 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1268.met
Print Time: 11/17/2010 1:55:40 PM
User: jjy
Instrument: Semi 7

SURRTCMX (back detector)
Average RF: 383970.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 383970.



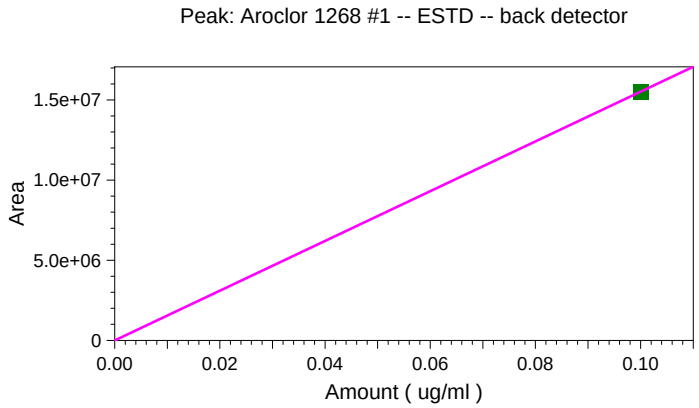
	Level 1	Level 11
Amount	100	0
Area	38397011	
RF	383970.11	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	38397011	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\018.dat	
Rep 1 Sample ID	PCB 1268 CF PP 3072	
Rep 1 Calib. Time	11/12/2010 8:50:47 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1268.met
Print Time: 11/17/2010 1:55:45 PM
User: jjy
Instrument: Semi 7

Aroclor 1268 #1 (back detector)
Average RF: 1.55168e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.55168e+008



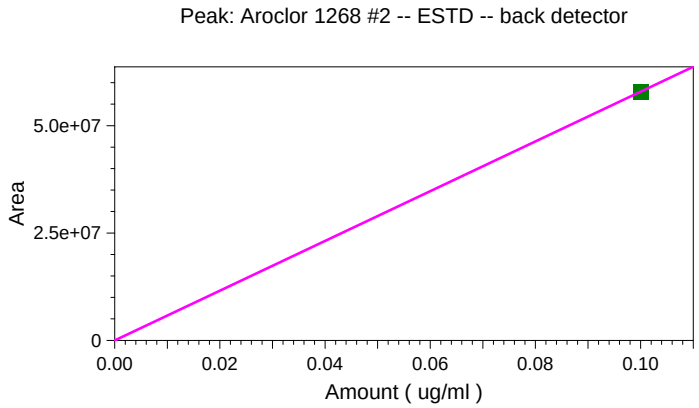
	Level 1	Level 11
Amount	0.1	0
Area	15516764	
RF	155167640	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	15516764	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\018.dat	
Rep 1 Sample ID	PCB 1268 CF PP 3072	
Rep 1 Calib. Time	11/12/2010 8:50:47 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1268.met
Print Time: 11/17/2010 1:55:48 PM
User: jjy
Instrument: Semi 7

Aroclor 1268 #2 (back detector)
Average RF: 5.79013e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 5.79013e+008



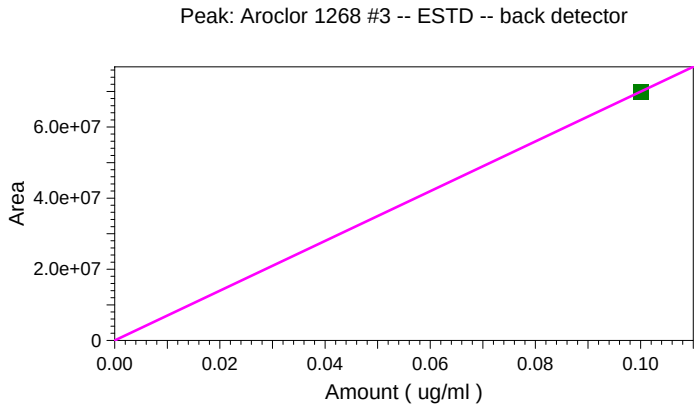
	Level 1	Level 11
Amount	0.1	0
Area	57901303	
RF	579013030	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	57901303	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\018.dat	
Rep 1 Sample ID	PCB 1268 CF PP 3072	
Rep 1 Calib. Time	11/12/2010 8:50:47 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1268.met
Print Time: 11/17/2010 1:55:51 PM
User: jjy
Instrument: Semi 7

Aroclor 1268 #3 (back detector)
Average RF: 6.99343e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 6.99343e+008



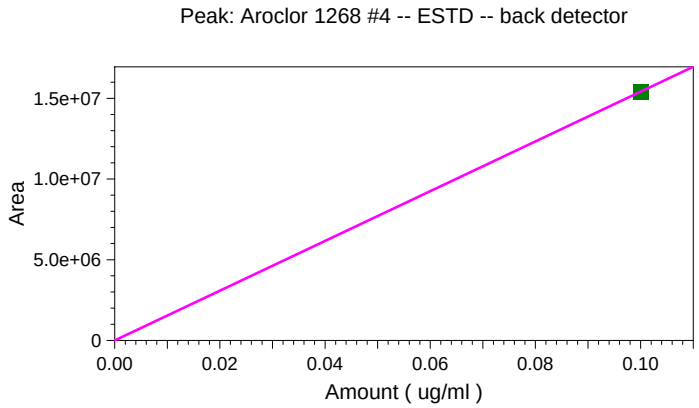
	Level 1	Level 11
Amount	0.1	0
Area	69934319	
RF	699343190	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	69934319	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\018.dat	
Rep 1 Sample ID	PCB 1268 CF PP 3072	
Rep 1 Calib. Time	11/12/2010 8:50:47 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1268.met
Print Time: 11/17/2010 1:55:55 PM
User: jjy
Instrument: Semi 7

Aroclor 1268 #4 (back detector)
Average RF: 1.54125e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.54125e+008



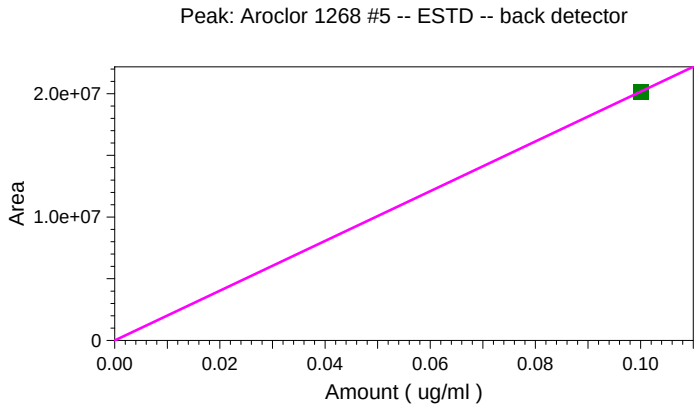
	Level 1	Level 11
Amount	0.1	0
Area	15412498	
RF	154124980	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	15412498	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\018.dat	
Rep 1 Sample ID	PCB 1268 CF PP 3072	
Rep 1 Calib. Time	11/12/2010 8:50:47 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1268.met
Print Time: 11/17/2010 1:56:00 PM
User: jjy
Instrument: Semi 7

Aroclor 1268 #5 (back detector)
Average RF: 2.01624e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 2.01624e+008



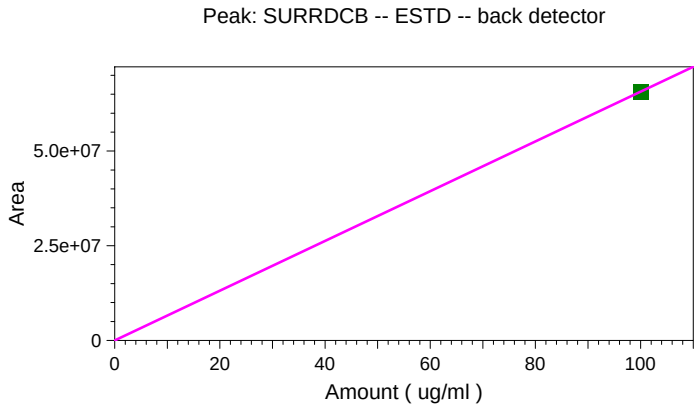
	Level 1
Amount	0.1
Area	20162355
RF	201623550
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	20162355
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\018.dat
Rep 1 Sample ID	PCB 1268 CF PP 3072
Rep 1 Calib. Time	11/12/2010 8:50:47 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1268.met
Print Time: 11/17/2010 1:56:04 PM
User: jjy
Instrument: Semi 7

SURRDCB (back detector)
Average RF: 656832.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 656832.



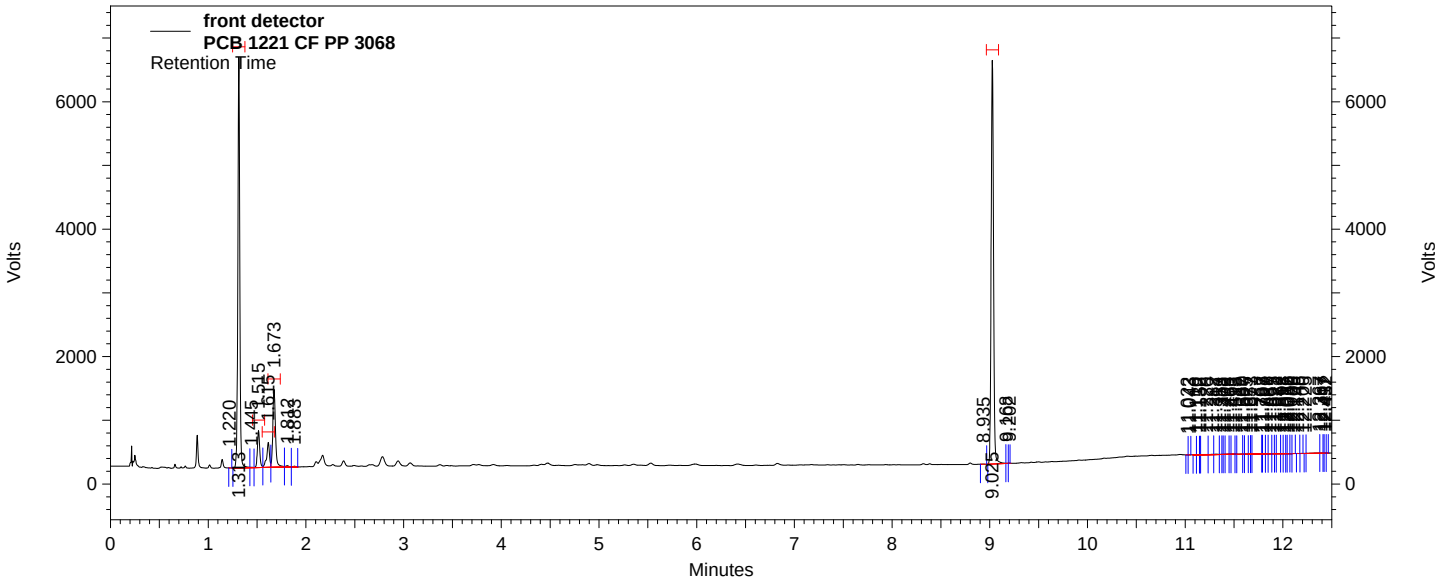
	Level 1
Amount	100
Area	65683213
RF	656832.13
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	65683213
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\018.dat
Rep 1 Sample ID	PCB 1268 CF PP 3072
Rep 1 Calib. Time	11/12/2010 8:50:47 AM

PCB Analysis Report (1221) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\012.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1221.met
User: jjy
Sample ID: PCB 1221 CF PP 3068
Acquired: 11/11/2010 7:19:08 PM
Printed: 11/15/2010 1:51:03 PM

JJY
11/15/10

Data Summary: {Data Description}



front detector Results

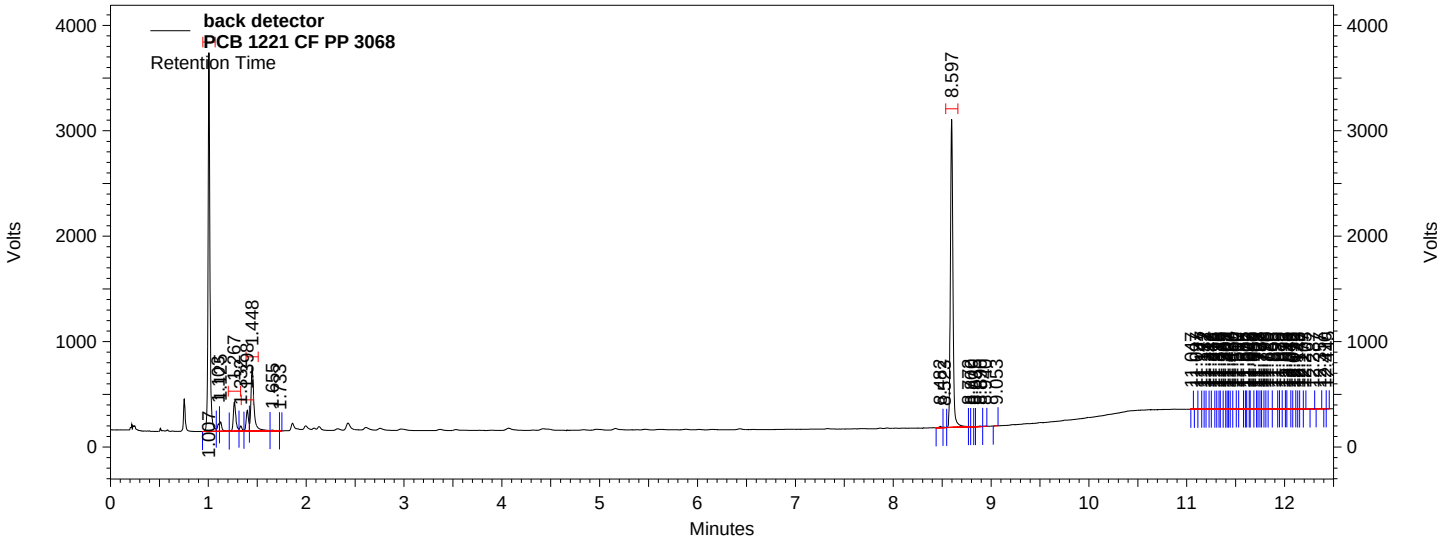
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.313	68646412	100.000 CAL
Aroclor 1221 #1	1.515	7292227	0.167 CAL
Aroclor 1221 #2	1.615	5998423	0.167 CAL
Aroclor 1221 #3	1.673	17583296	0.167 CAL
SURRDCB	9.025	82801517	100.000 CAL
Aroclor 1221		30873946	0.501 CAL

PCB Analysis Report (1221) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\012.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1221.met
User: jjy
Sample ID: PCB 1221 CF PP 3068
Acquired: 11/11/2010 7:19:08 PM
Printed: 11/15/2010 1:51:03 PM

JJY
11/15/10

Data Summary: {Data Description}



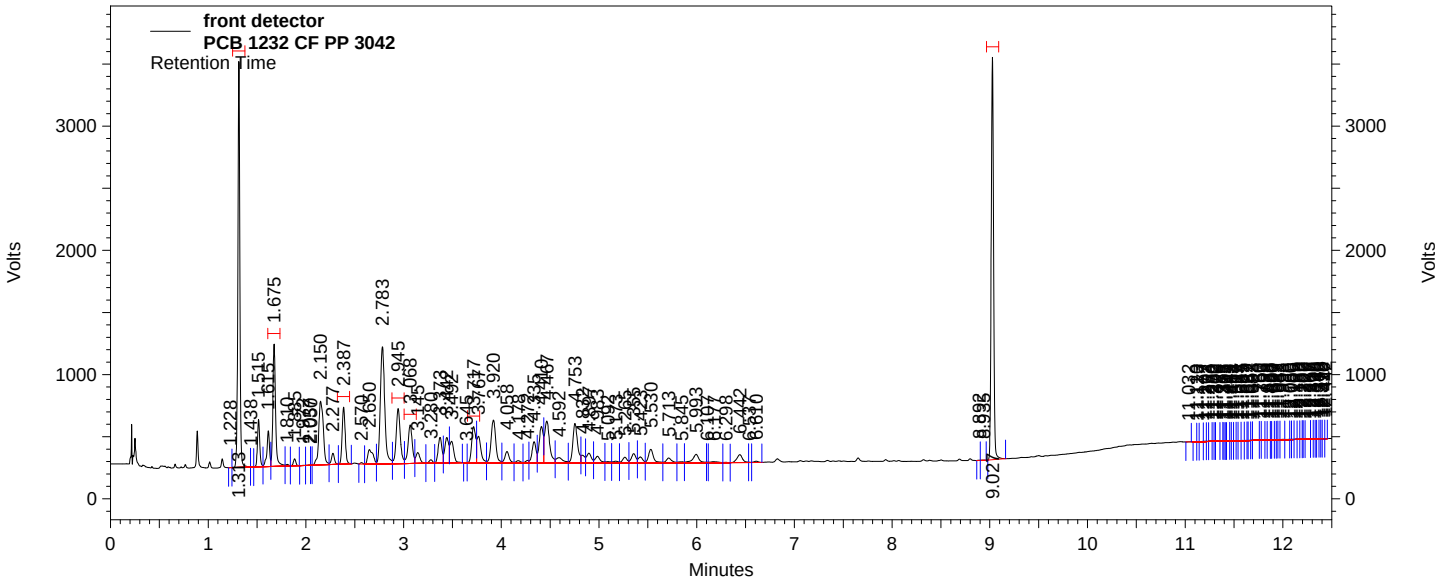
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.007	36158697	100.000 CAL
Aroclor 1221 #1	1.267	3871112	0.167 CAL
Aroclor 1221 #2	1.398	2545612	0.167 CAL
Aroclor 1221 #3	1.448	10008734	0.167 CAL
SURRDCB	8.597	40801469	100.000 CAL
Aroclor 1221		16425458	0.501 CAL

PCB Analysis Report (1232) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\013.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1232.met
User: jjy
Sample ID: PCB 1232 CF PP 3042 JJY
Acquired: 11/11/2010 7:34:49 PM 11/15/10
Printed: 11/15/2010 1:51:12 PM

Data Summary: {Data Description}



front detector Results

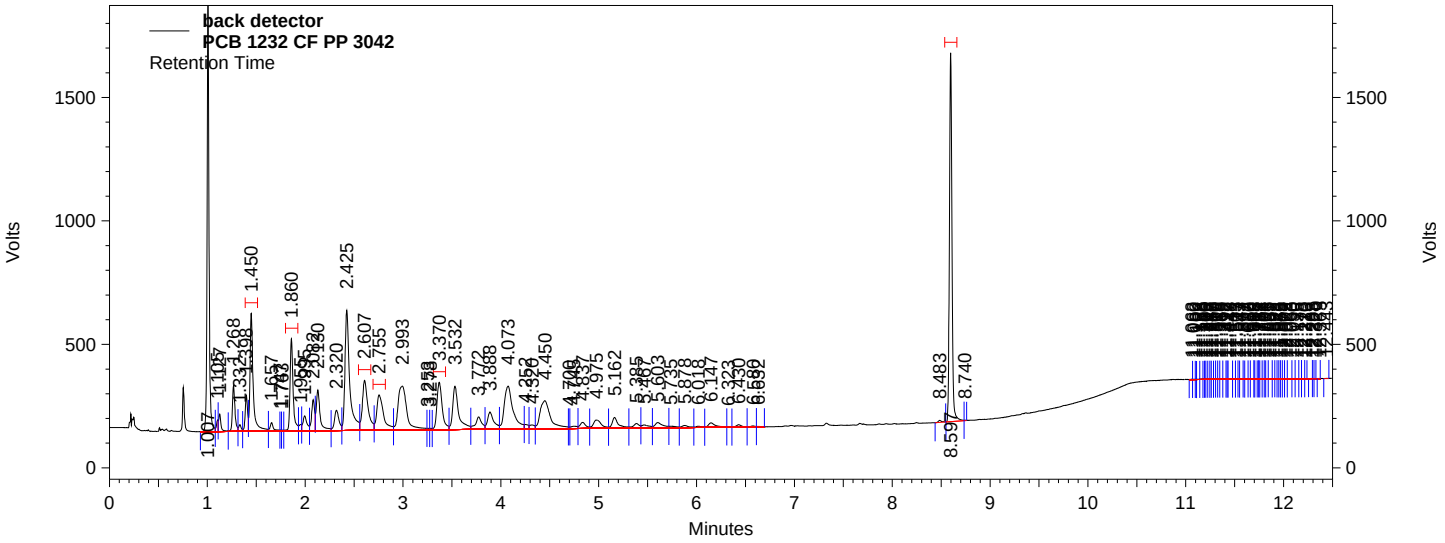
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.313	35544398	100.000 CAL
Aroclor 1232 #1	1.675	14264739	0.100 CAL
Aroclor 1232 #2	2.387	7665796	0.100 CAL
Aroclor 1232 #3	2.945	10070000	0.100 CAL
Aroclor 1232 #4	3.068	7036843	0.100 CAL
Aroclor 1232 #5	3.717	6308673	0.100 CAL
SURRDCB	9.027	42263613	100.000 CAL
Aroclor 1232		45346051	0.500 CAL

PCB Analysis Report (1232) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\013.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1232.met
User: jjy
Sample ID: PCB 1232 CF PP 3042
Acquired: 11/11/2010 7:34:49 PM
Printed: 11/15/2010 1:51:12 PM

JJY
11/15/10

Data Summary: {Data Description}



back detector Results

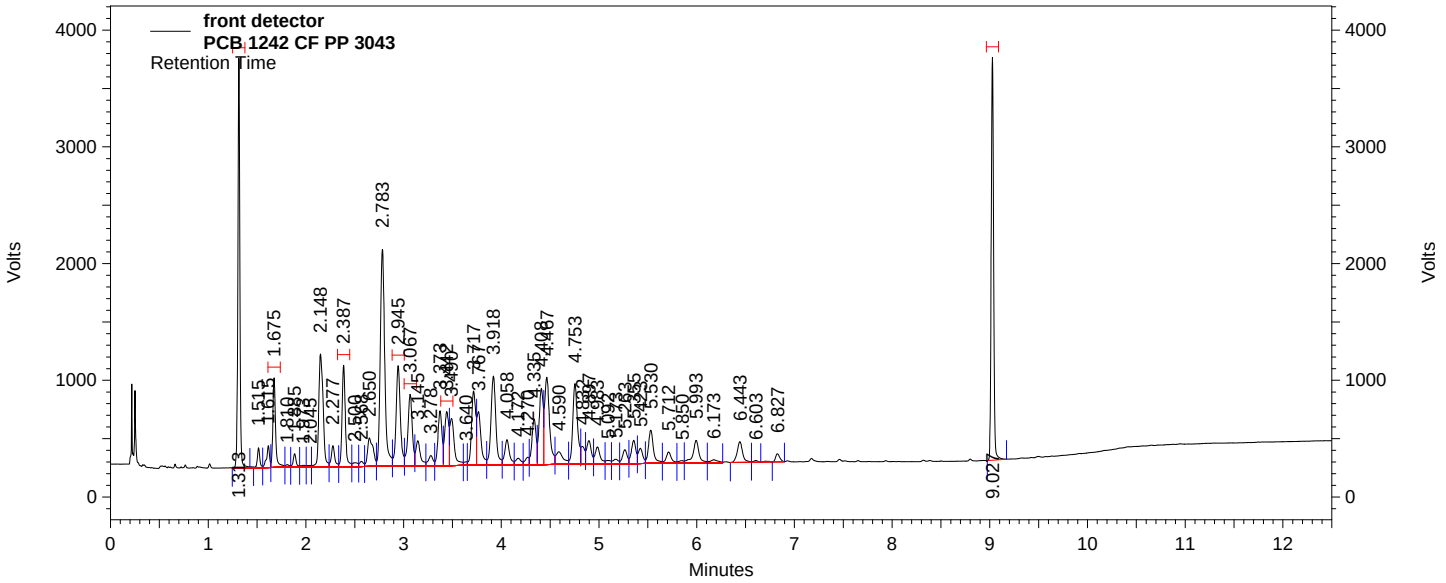
Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.007	18388009	100.000 CAL
Aroclor 1232 #1	1.450	8242035	0.100 CAL
Aroclor 1232 #2	1.860	6293900	0.100 CAL
Aroclor 1232 #3	2.607	6214305	0.100 CAL
Aroclor 1232 #4	2.755	5274465	0.100 CAL
Aroclor 1232 #5	3.370	5487232	0.100 CAL
SURRDCB	8.597	20842377	100.000 CAL
Aroclor 1232		31511937	0.500 CAL

PCB Analysis Report (1242) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\014.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1242.met
User: jjy
Sample ID: PCB 1242 CF PP 3043
Acquired: 11/11/2010 7:50:34 PM
Printed: 11/15/2010 1:51:21 PM

JJY
11/15/10

Data Summary: {Data Description}



front detector Results

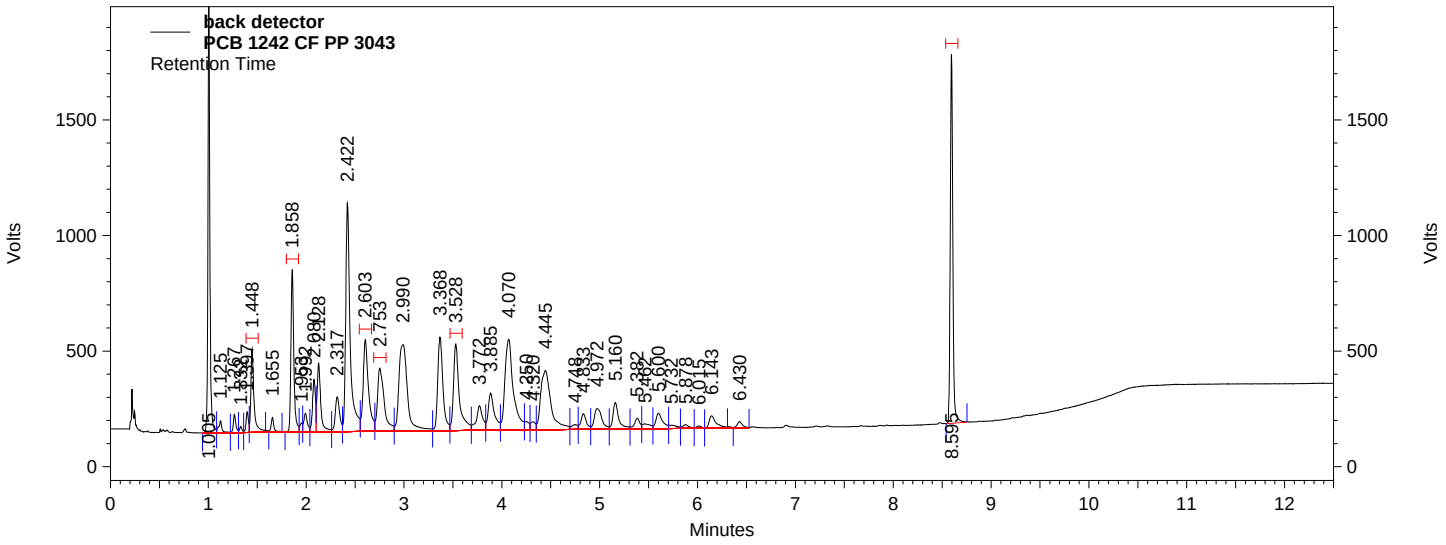
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.313	38173877	100.000 CAL
Aroclor 1242 #1	1.675	11435620	0.100 CAL
Aroclor 1242 #2	2.387	15730793	0.100 CAL
Aroclor 1242 #3	2.945	20340031	0.100 CAL
Aroclor 1242 #4	3.067	14676452	0.100 CAL
Aroclor 1242 #5	3.442	10068554	0.100 CAL
SURRDCB	9.027	45607215	100.000 CAL
Aroclor 1242		72251450	0.500 CAL

PCB Analysis Report (1242) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\014.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1242.met
User: jjy
Sample ID: PCB 1242 CF PP 3043
Acquired: 11/11/2010 7:50:34 PM
Printed: 11/15/2010 1:51:21 PM

JJY
11/15/10

Data Summary: {Data Description}



back detector Results

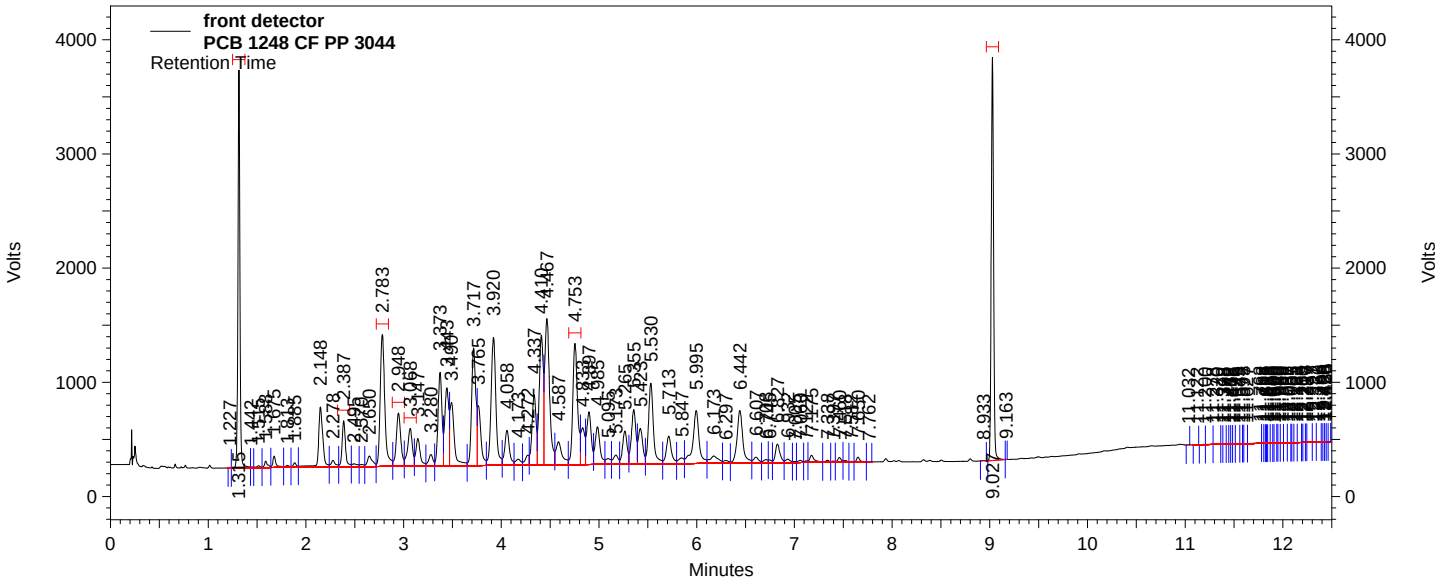
Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.005	19764225	100.000 CAL
Aroclor 1242 #1	1.448	6147131	0.100 CAL
Aroclor 1242 #2	1.858	11233728	0.100 CAL
Aroclor 1242 #3	2.603	11643103	0.100 CAL
Aroclor 1242 #4	2.753	9895830	0.100 CAL
Aroclor 1242 #5	3.528	11923842	0.100 CAL
SURRDCB	8.595	22487451	100.000 CAL
Aroclor 1242		50843634	0.500 CAL

PCB Analysis Report (1248) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\015.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1248.met
User: jjy
Sample ID: PCB 1248 CF PP 3044
Acquired: 11/11/2010 8:06:17 PM
Printed: 11/15/2010 1:51:30 PM

JJY
11/15/10

Data Summary: {Data Description}



front detector Results

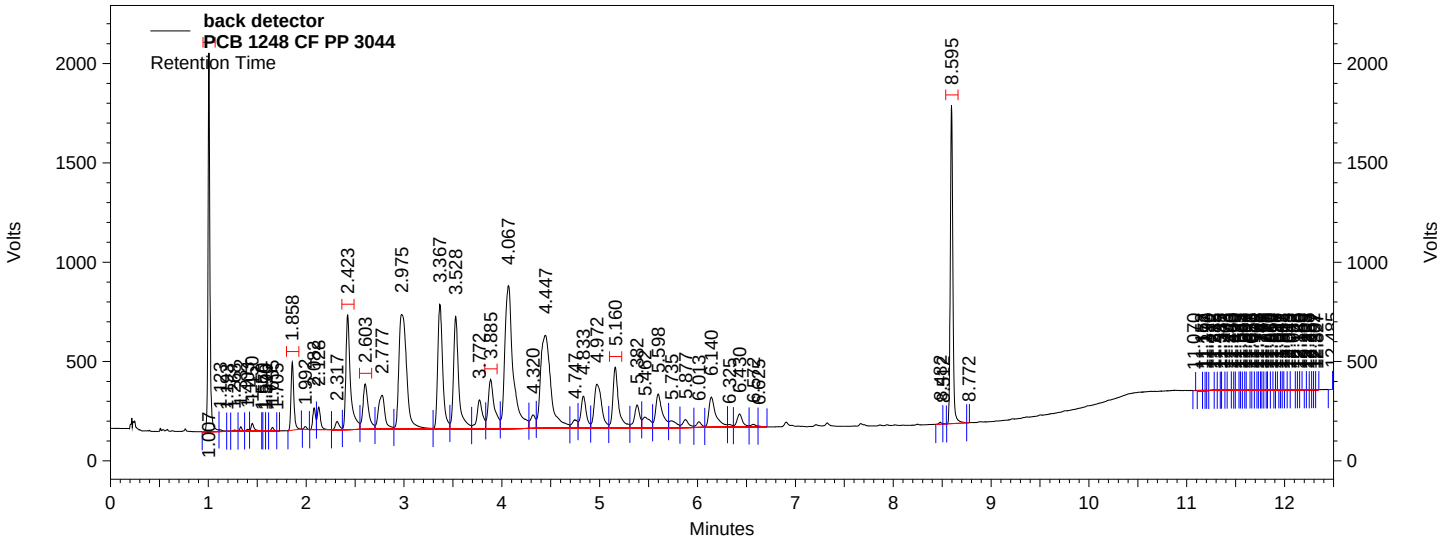
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.315	37498125	100.000 CAL
Aroclor 1248 #1	2.387	7544494	0.100 CAL
Aroclor 1248 #2	2.783	29058607	0.100 CAL
Aroclor 1248 #3	2.948	11635053	0.100 CAL
Aroclor 1248 #4	3.068	8431591	0.100 CAL
Aroclor 1248 #5	4.753	27634595	0.100 CAL
SURRDCB	9.027	45681722	100.000 CAL
Aroclor 1248		84304340	0.500 CAL

PCB Analysis Report (1248) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\015.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1248.met
User: jjy
Sample ID: PCB 1248 CF PP 3044
Acquired: 11/11/2010 8:06:17 PM
Printed: 11/15/2010 1:51:30 PM

JJY
11/15/10

Data Summary: {Data Description}



back detector Results

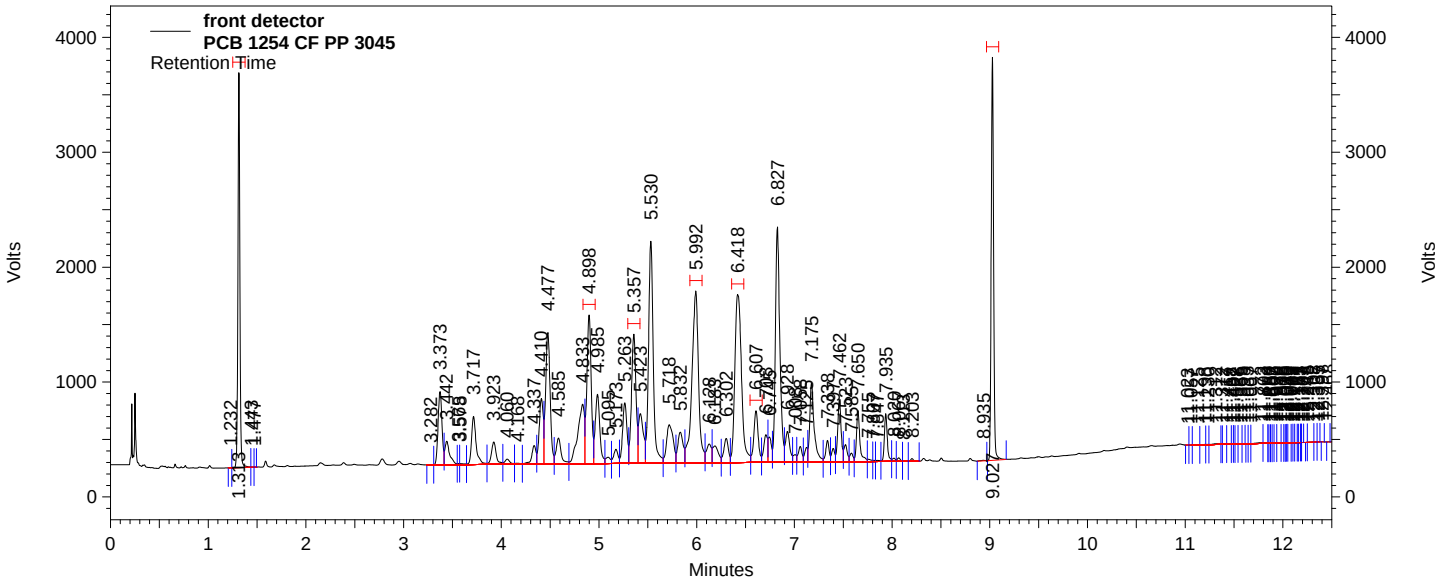
Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.007	19667257	100.000 CAL
Aroclor 1248 #1	1.858	5316395	0.100 CAL
Aroclor 1248 #2	2.423	14495289	0.100 CAL
Aroclor 1248 #3	2.603	6796372	0.100 CAL
Aroclor 1248 #4	3.885	8239344	0.100 CAL
Aroclor 1248 #5	5.160	9445636	0.100 CAL
SURRDCB	8.595	22499817	100.000 CAL
Aroclor 1248		44293036	0.500 CAL

PCB Analysis Report (1254) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\016.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1254.met
User: jjy
Sample ID: PCB 1254 CF PP 3045
Acquired: 11/11/2010 8:21:56 PM
Printed: 11/15/2010 1:51:39 PM

JJY
11/15/10

Data Summary: {Data Description}



front detector Results

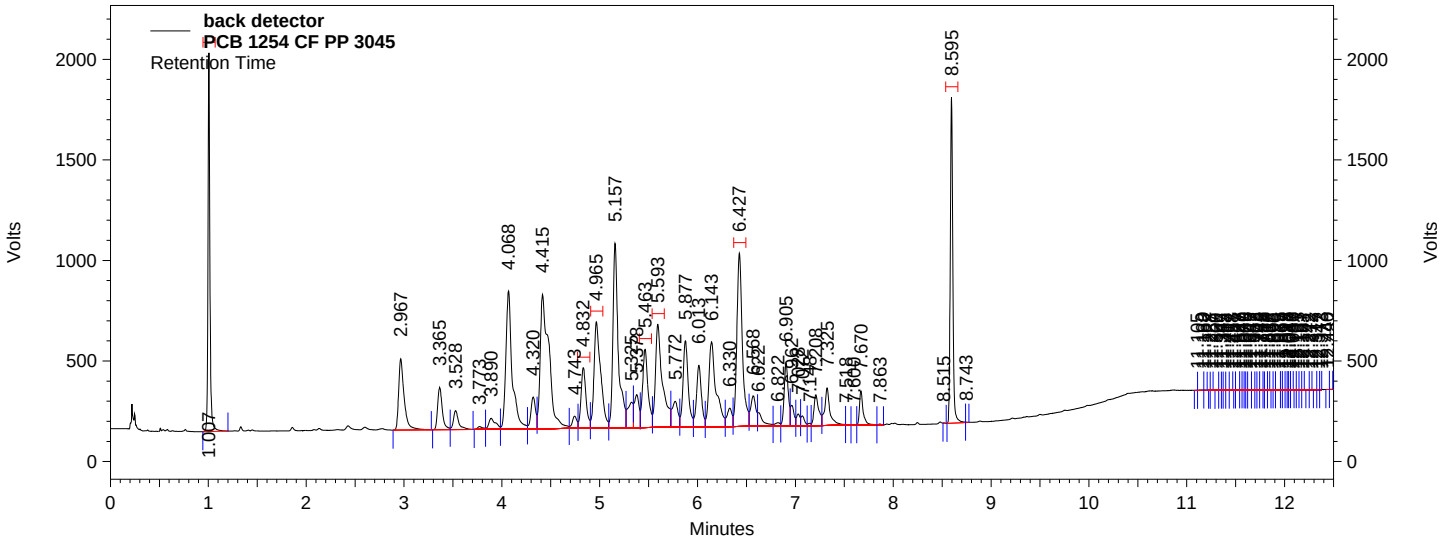
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.313	36802940	100.000 CAL
Aroclor 1254 #1	4.898	31168777	0.100 CAL
Aroclor 1254 #2	5.357	27669320	0.100 CAL
Aroclor 1254 #3	5.992	53760384	0.100 CAL
Aroclor 1254 #4	6.418	53517485	0.100 CAL
Aroclor 1254 #5	6.607	10918796	0.100 CAL
SURRDCB	9.027	45787981	100.000 CAL
Aroclor 1254		177034762	0.500 CAL

PCB Analysis Report (1254) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\016.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1254.met
User: jjy
Sample ID: PCB 1254 CF PP 3045
Acquired: 11/11/2010 8:21:56 PM
Printed: 11/15/2010 1:51:39 PM

JJY
11/15/10

Data Summary: {Data Description}



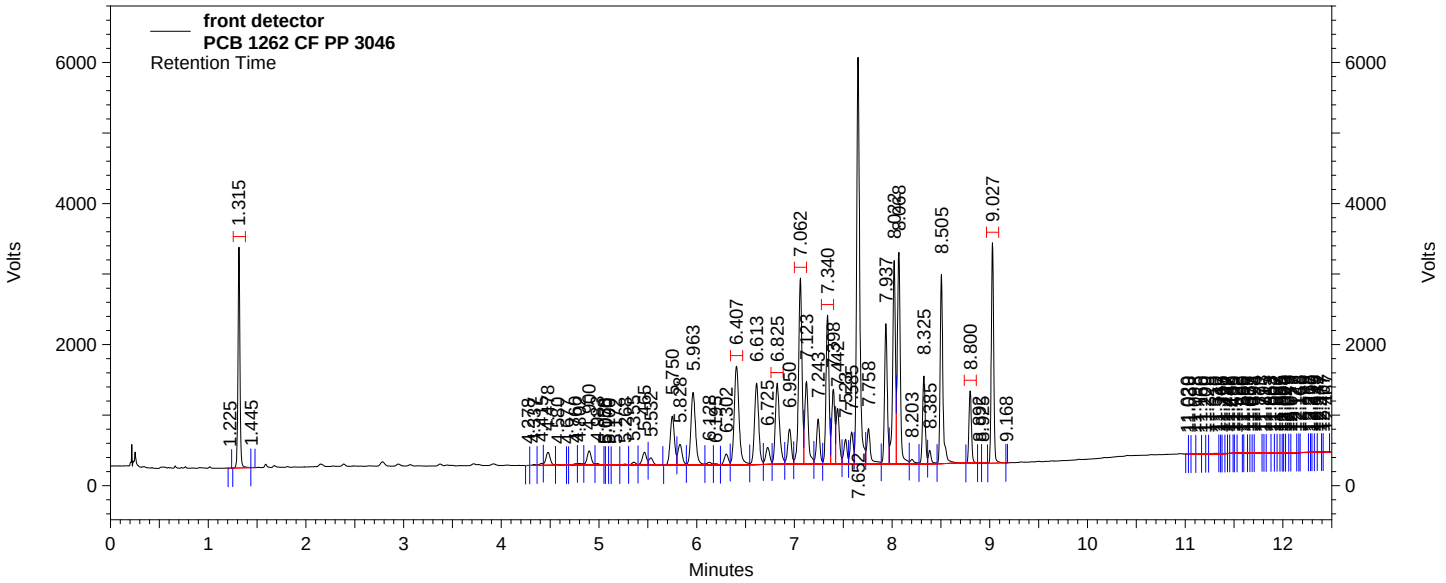
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.007	19538986	100.000 CAL
Aroclor 1254 #1	4.832	8155349	0.100 CAL
Aroclor 1254 #2	4.965	19231434	0.100 CAL
Aroclor 1254 #3	5.463	11481433	0.100 CAL
Aroclor 1254 #4	5.593	19624344	0.100 CAL
Aroclor 1254 #5	6.427	26105580	0.100 CAL
SURRDCB	8.595	22599379	100.000 CAL
Aroclor 1254		84598140	0.500 CAL

PCB Analysis Report (1262) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\017.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1262.met
User: jjy
Sample ID: PCB 1262 CF PP 3046
Acquired: 11/11/2010 8:37:33 PM JJY
Printed: 11/15/2010 1:51:48 PM 11/15/10

Data Summary: {Data Description}



front detector Results

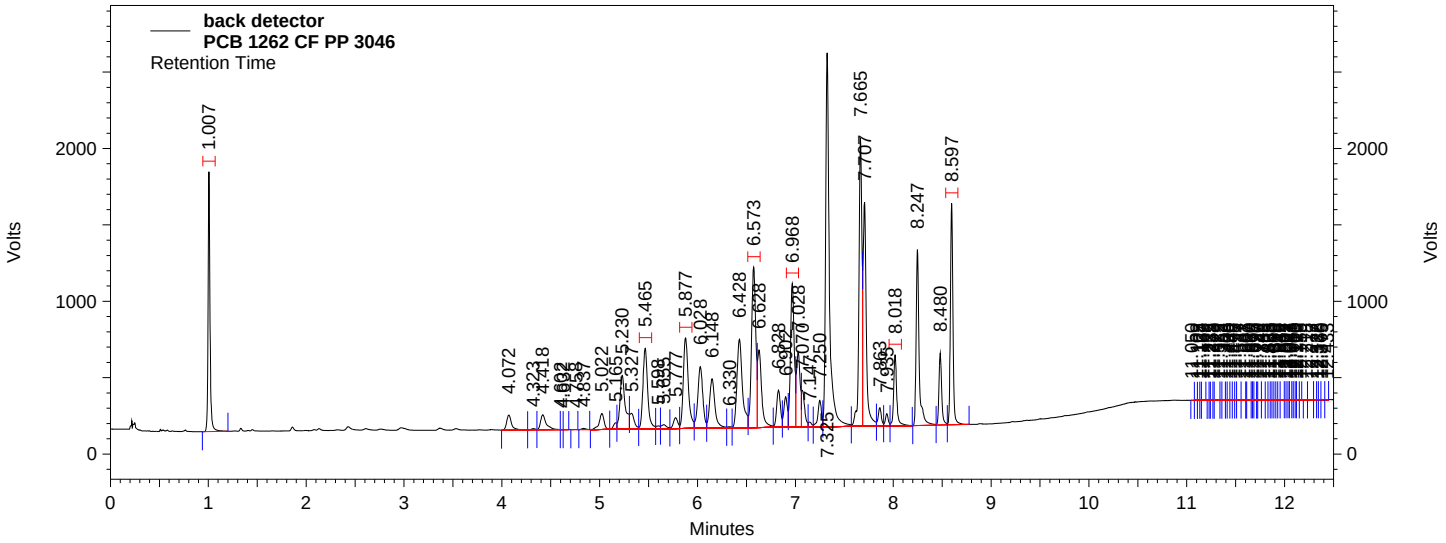
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.315	33545486	100.000 CAL
Aroclor 1262 #1	6.407	37104811	0.100 CAL
Aroclor 1262 #2	6.825	26447008	0.100 CAL
Aroclor 1262 #3	7.062	49827180	0.100 CAL
Aroclor 1262 #4	7.340	35564856	0.100 CAL
Aroclor 1262 #5	8.800	13909618	0.100 CAL
SURRDCB	9.027	40861662	100.000 CAL
Aroclor 1262		162853473	0.500 CAL

PCB Analysis Report (1262) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\017.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1262.met
User: jjy
Sample ID: PCB 1262 CF PP 3046
Acquired: 11/11/2010 8:37:33 PM
Printed: 11/15/2010 1:51:48 PM

JJY
11/15/10

Data Summary: {Data Description}



back detector Results

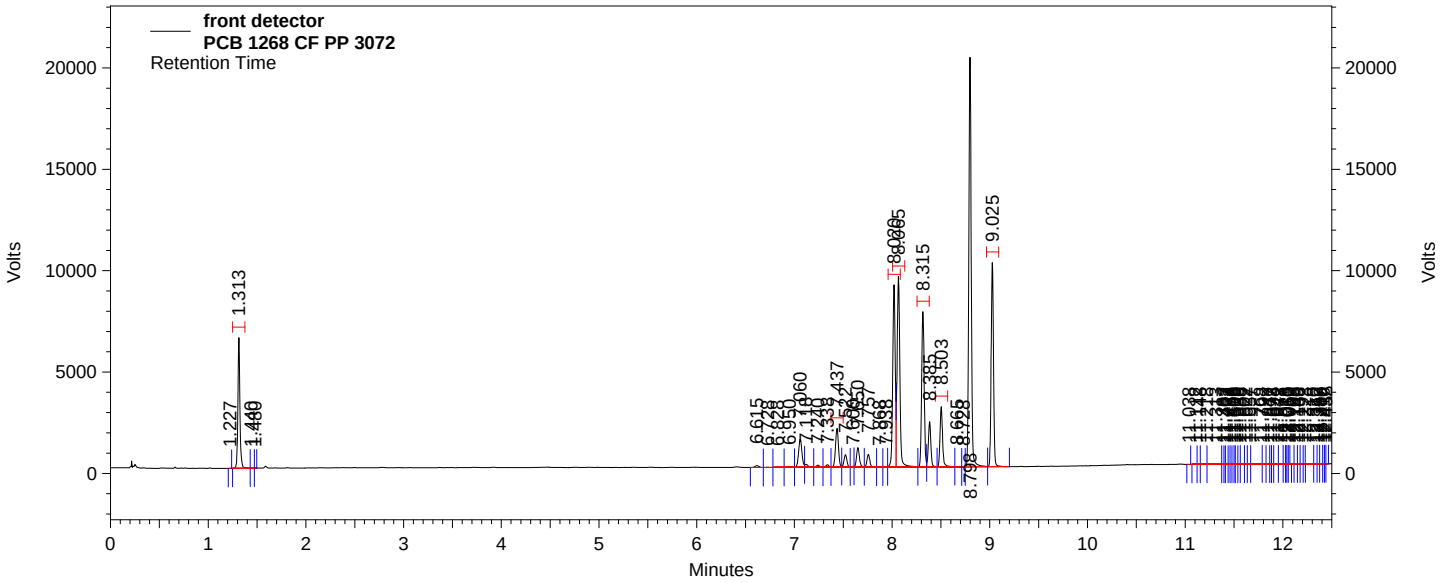
Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.007	17665491	100.000 CAL
Aroclor 1262 #1	5.465	13613017	0.100 CAL
Aroclor 1262 #2	5.877	16210590	0.100 CAL
Aroclor 1262 #3	6.573	24299187	0.100 CAL
Aroclor 1262 #4	6.968	19498286	0.100 CAL
Aroclor 1262 #5	8.018	7829570	0.100 CAL
SURRDCB	8.597	20314759	100.000 CAL
Aroclor 1262		81450650	0.500 CAL

PCB Analysis Report (1268) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\018.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1268.met
User: jjy
Sample ID: PCB 1268 CF PP 3072
Acquired: 11/11/2010 8:53:10 PM
Printed: 11/15/2010 1:51:57 PM

JJY
11/15/10

Data Summary: {Data Description}



front detector Results

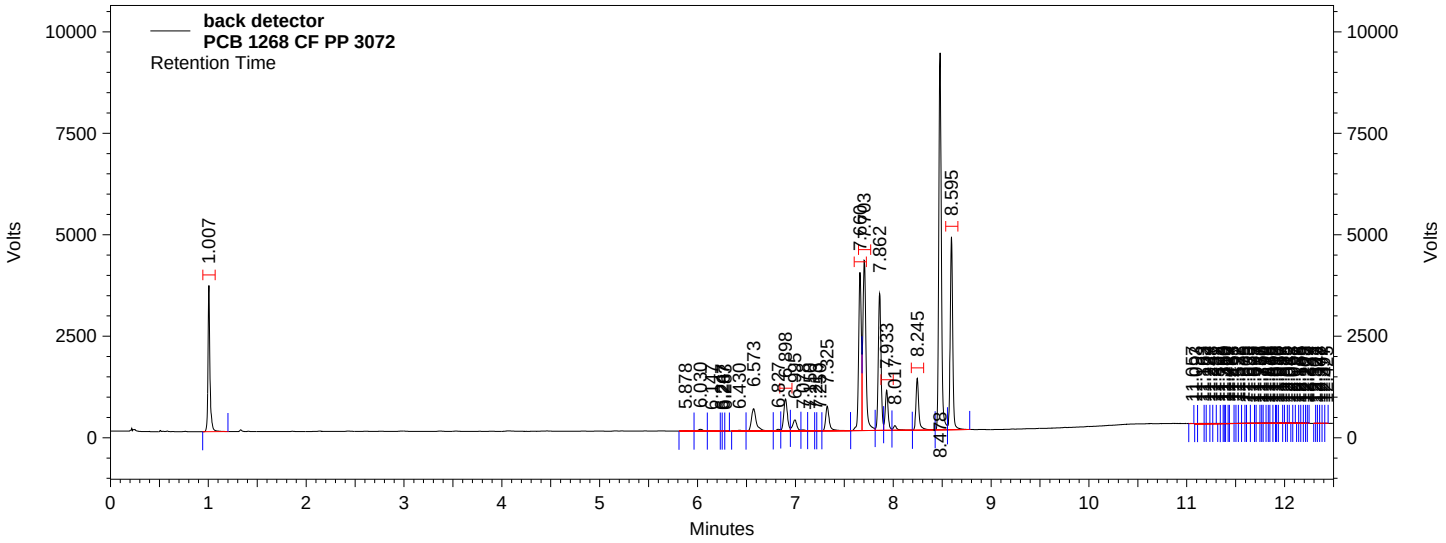
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.313	71352523	100.000 CAL
Aroclor 1268 #1	7.437	31578151	0.100 CAL
Aroclor 1268 #2	8.020	125426730	0.100 CAL
Aroclor 1268 #3	8.065	140711401	0.100 CAL
Aroclor 1268 #4	8.315	104994511	0.100 CAL
Aroclor 1268 #5	8.503	42146476	0.100 CAL
SURRDCB	9.025	129737545	100.000 CAL
Aroclor 1268		444857269	0.500 CAL

PCB Analysis Report (1268) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\018.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1268.met
User: jjy
Sample ID: PCB 1268 CF PP 3072
Acquired: 11/11/2010 8:53:10 PM
Printed: 11/15/2010 1:51:57 PM

JJY
11/15/10

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.007	38397011	100.000 CAL
Aroclor 1268 #1	6.898	15516764	0.100 CAL
Aroclor 1268 #2	7.660	57901303	0.100 CAL
Aroclor 1268 #3	7.703	69934319	0.100 CAL
Aroclor 1268 #4	7.933	15412498	0.100 CAL
Aroclor 1268 #5	8.245	20162355	0.100 CAL
SURRDCB	8.595	65683213	100.000 CAL
Aroclor 1268		178927239	0.500 CAL

QC Check Standard Report

Sequence : C:\Instarch\Semi7\Sequence\111110pcbic.seq
User : jjy
Printed : 11/15/2010 1:52:21 PM

File	Sample ID	Acquired
C:\Instarch\Semi7\Data\111110pcbic\020.dat	PCB 1221 ICV PP 3069	11/15/2010 1:52:21 PM

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMX	100.000	93.467	6.533	20.000	Passed
Aroclor 1221 #1	0.167	0.154	7.696	20.000	Passed
Aroclor 1221 #2	0.167	0.155	7.027	20.000	Passed
Aroclor 1221 #3	0.167	0.155	7.447	20.000	Passed
SURRDCB	100.000	93.865	6.135	20.000	Passed
Aroclor 1221	0.500	0.464	7.205	20.000	Passed

back detector

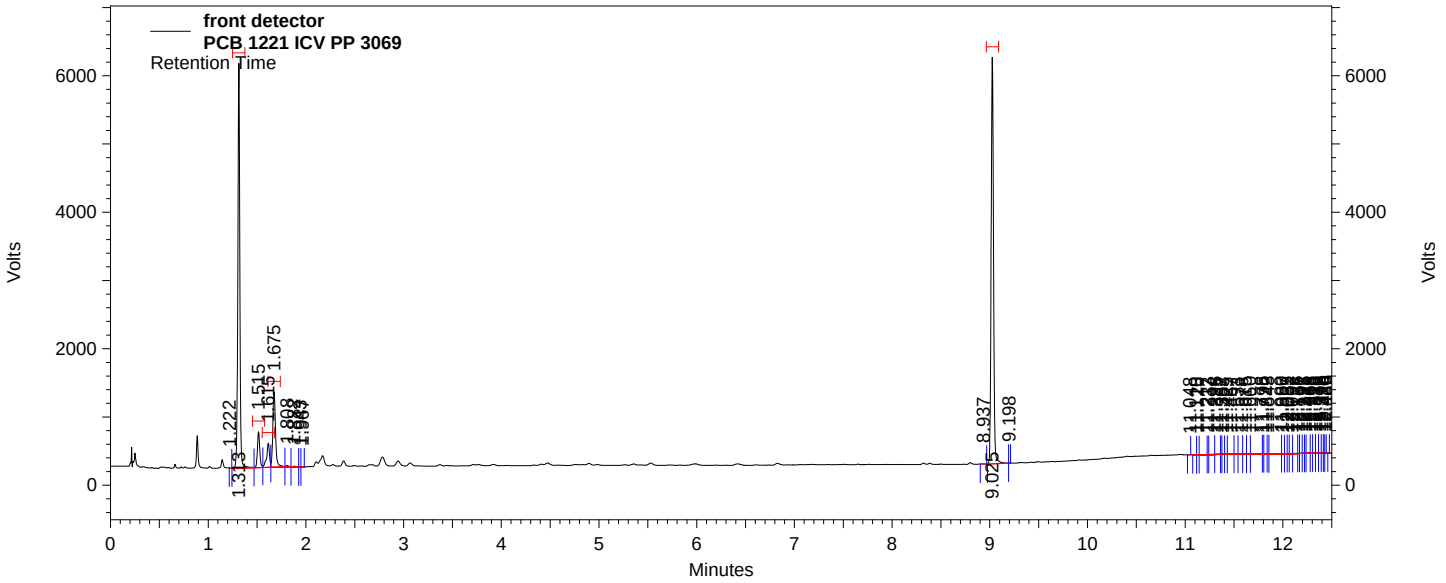
Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMX	100.000	93.682	6.318	20.000	Passed
Aroclor 1221 #1	0.167	0.153	8.501	20.000	Passed
Aroclor 1221 #2	0.167	0.157	6.204	20.000	Passed
Aroclor 1221 #3	0.167	0.154	8.010	20.000	Passed
SURRDCB	100.000	94.676	5.324	20.000	Passed
Aroclor 1221	0.500	0.463	7.387	20.000	Passed

PCB Analysis Report (1221) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\020.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1221.met
User: jjy
Sample ID: PCB 1221 ICV PP 3069
Acquired: 11/11/2010 9:24:25 PM
Printed: 11/15/2010 1:52:13 PM

JJY
11/15/10

Data Summary: {Data Description}



front detector Results

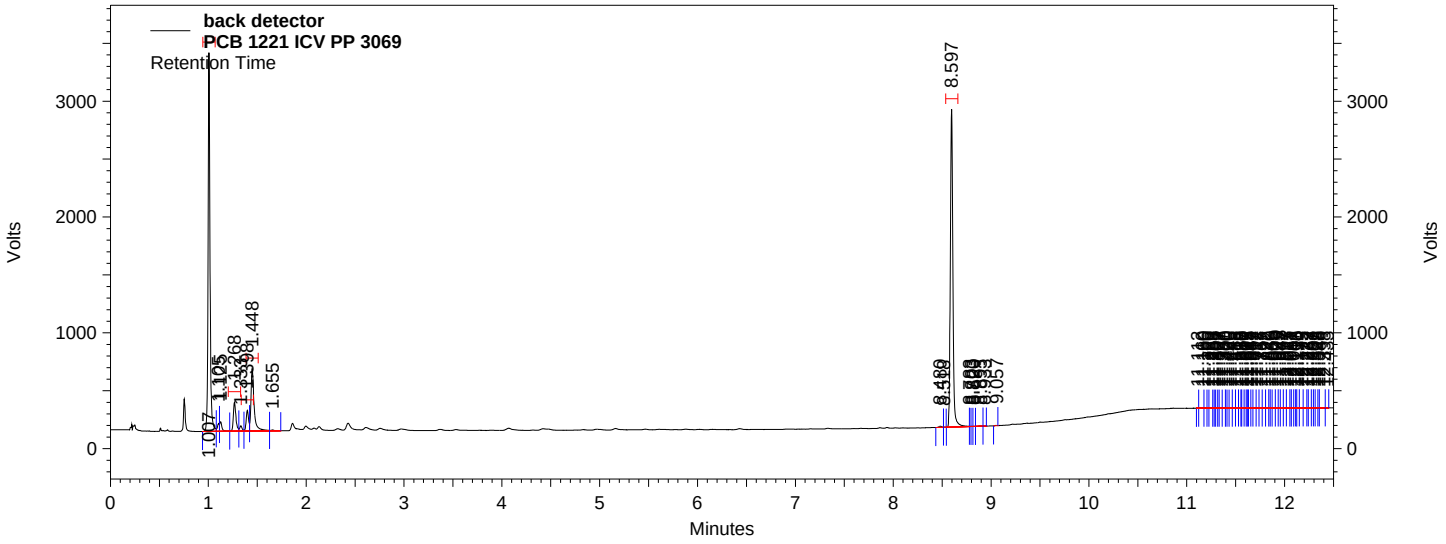
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.313	64161568	93.467
Aroclor 1221 #1	1.515	6731038	0.154
Aroclor 1221 #2	1.615	5576930	0.155
Aroclor 1221 #3	1.675	16273881	0.155
SURRDCB	9.025	77721948	93.865
Aroclor 1221		28581849	0.464

PCB Analysis Report (1221) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\020.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1221.met
User: jjy
Sample ID: PCB 1221 ICV PP 3069
Acquired: 11/11/2010 9:24:25 PM
Printed: 11/15/2010 1:52:13 PM

JJY
11/15/10

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.007	33874104	93.682
Aroclor 1221 #1	1.268	3542016	0.153
Aroclor 1221 #2	1.398	2387678	0.157
Aroclor 1221 #3	1.448	9207014	0.154
SURRDCB	8.597	38629062	94.676
Aroclor 1221		15136708	0.463

QC Check Standard Report

Sequence : C:\Instarch\Semi7\Sequence\111110pcbic.seq
User : jjy
Printed : 11/15/2010 1:52:37 PM

File	Sample ID	Acquired
C:\Instarch\Semi7\Data\111110pcbic\021.dat	PCB 1232 ICV PP 3048	11/15/2010 1:52:37 PM

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMX	100.000	108.092	8.092	20.000	Passed
Aroclor 1232 #1	0.100	0.108	8.158	20.000	Passed
Aroclor 1232 #2	0.100	0.111	10.603	20.000	Passed
Aroclor 1232 #3	0.100	0.111	10.730	20.000	Passed
Aroclor 1232 #4	0.100	0.111	10.589	20.000	Passed
Aroclor 1232 #5	0.100	0.113	12.774	20.000	Passed
SURRDCB	100.000	110.804	10.804	20.000	Passed
Aroclor 1232	0.500	0.553	10.571	20.000	Passed

back detector

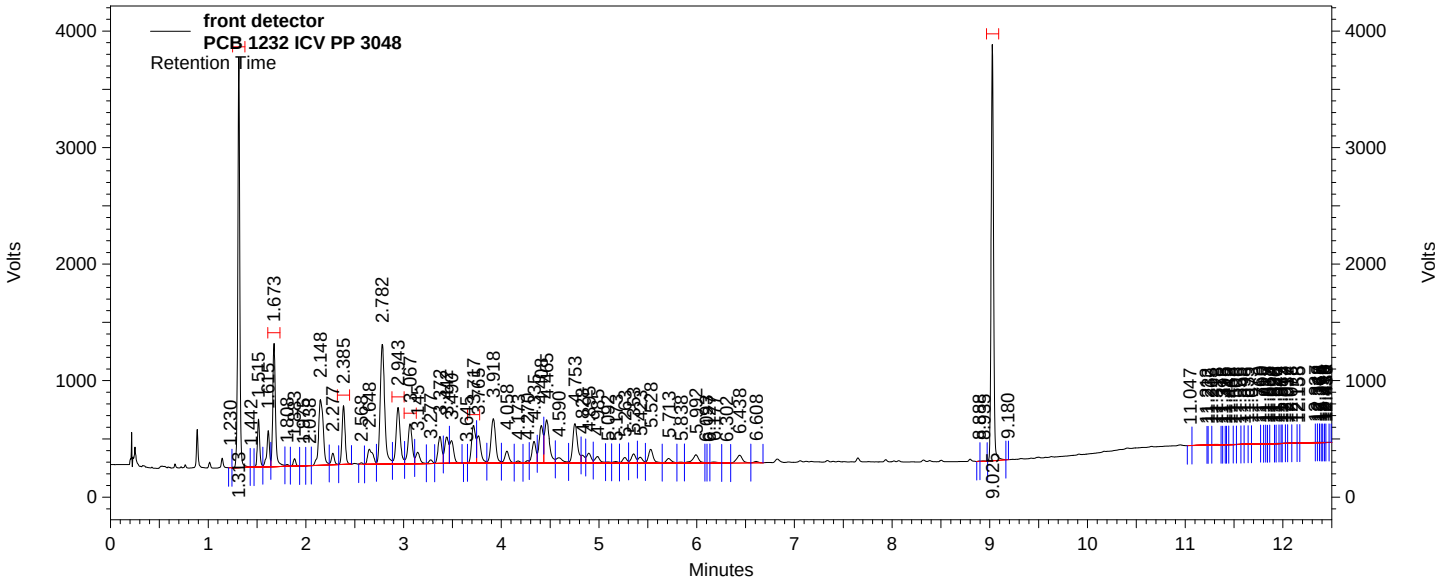
Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMX	100.000	109.993	9.993	20.000	Passed
Aroclor 1232 #1	0.100	0.108	7.880	20.000	Passed
Aroclor 1232 #2	0.100	0.109	8.930	20.000	Passed
Aroclor 1232 #3	0.100	0.108	7.888	20.000	Passed
Aroclor 1232 #4	0.100	0.105	5.116	20.000	Passed
Aroclor 1232 #5	0.100	0.103	2.649	20.000	Passed
SURRDCB	100.000	112.014	12.014	20.000	Passed
Aroclor 1232	0.500	0.532	6.492	20.000	Passed

PCB Analysis Report (1232) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\021.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1232.met
User: jjy
Sample ID: PCB 1232 ICV PP 3048
Acquired: 11/11/2010 9:40:04 PM
Printed: 11/15/2010 1:52:34 PM

JJY
11/15/10

Data Summary: {Data Description}



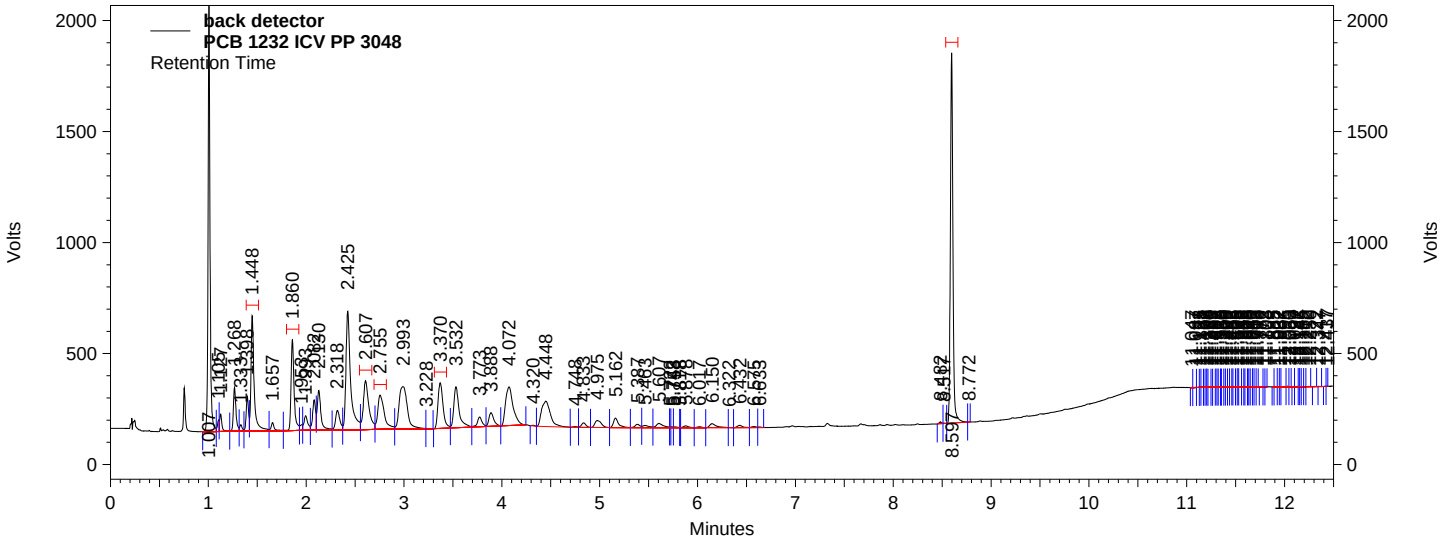
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.313	38420541	108.092
Aroclor 1232 #1	1.673	15428523	0.108
Aroclor 1232 #2	2.385	8478623	0.111
Aroclor 1232 #3	2.943	11150513	0.111
Aroclor 1232 #4	3.067	7781997	0.111
Aroclor 1232 #5	3.717	7114557	0.113
SURRDCB	9.025	46829701	110.804
Aroclor 1232		49954213	0.553

PCB Analysis Report (1232) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\021.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1232.met
User: jjy
Sample ID: PCB 1232 ICV PP 3048
Acquired: 11/11/2010 9:40:04 PM JJY
Printed: 11/15/2010 1:52:34 PM 11/15/10

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.007	20225544	109.993
Aroclor 1232 #1	1.448	8891468	0.108
Aroclor 1232 #2	1.860	6855947	0.109
Aroclor 1232 #3	2.607	6704461	0.108
Aroclor 1232 #4	2.755	5544292	0.105
Aroclor 1232 #5	3.370	5632596	0.103
SURRDCB	8.597	23346411	112.014
Aroclor 1232		33628764	0.532

QC Check Standard Report

Sequence : C:\Instarch\Semi7\Sequence\111110pcbic.seq
User : jjy
Printed : 11/15/2010 1:52:57 PM

File	Sample ID	Acquired
C:\Instarch\Semi7\Data\111110pcbic\022.dat	PCB 1242 ICV PP 3049	11/15/2010 1:52:57 PM

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMX	100.000	101.124	1.124	20.000	Passed
Aroclor 1242 #1	0.100	0.102	1.703	20.000	Passed
Aroclor 1242 #2	0.100	0.102	1.709	20.000	Passed
Aroclor 1242 #3	0.100	0.101	1.427	20.000	Passed
Aroclor 1242 #4	0.100	0.101	1.236	20.000	Passed
Aroclor 1242 #5	0.100	0.102	2.278	20.000	Passed
SURRDCB	100.000	102.870	2.870	20.000	Passed
Aroclor 1242	0.500	0.508	1.671	20.000	Passed

back detector

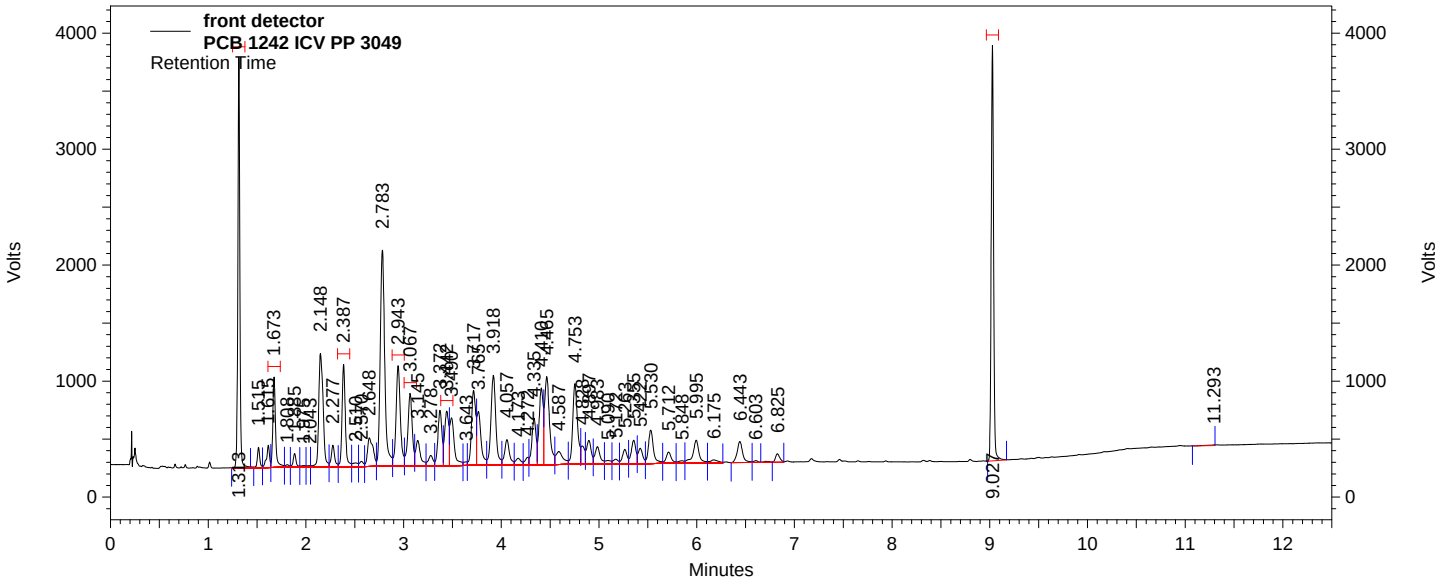
Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMX	100.000	102.724	2.724	20.000	Passed
Aroclor 1242 #1	0.100	0.106	5.769	20.000	Passed
Aroclor 1242 #2	0.100	0.103	3.003	20.000	Passed
Aroclor 1242 #3	0.100	0.104	3.649	20.000	Passed
Aroclor 1242 #4	0.100	0.104	4.081	20.000	Passed
Aroclor 1242 #5	0.100	0.104	4.136	20.000	Passed
SURRDCB	100.000	103.950	3.950	20.000	Passed
Aroclor 1242	0.500	0.521	4.128	20.000	Passed

PCB Analysis Report (1242) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\022.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1242.met
User: jjy
Sample ID: PCB 1242 ICV PP 3049
Acquired: 11/11/2010 9:55:44 PM
Printed: 11/15/2010 1:52:52 PM

JJY
11/15/10

Data Summary: {Data Description}



front detector Results

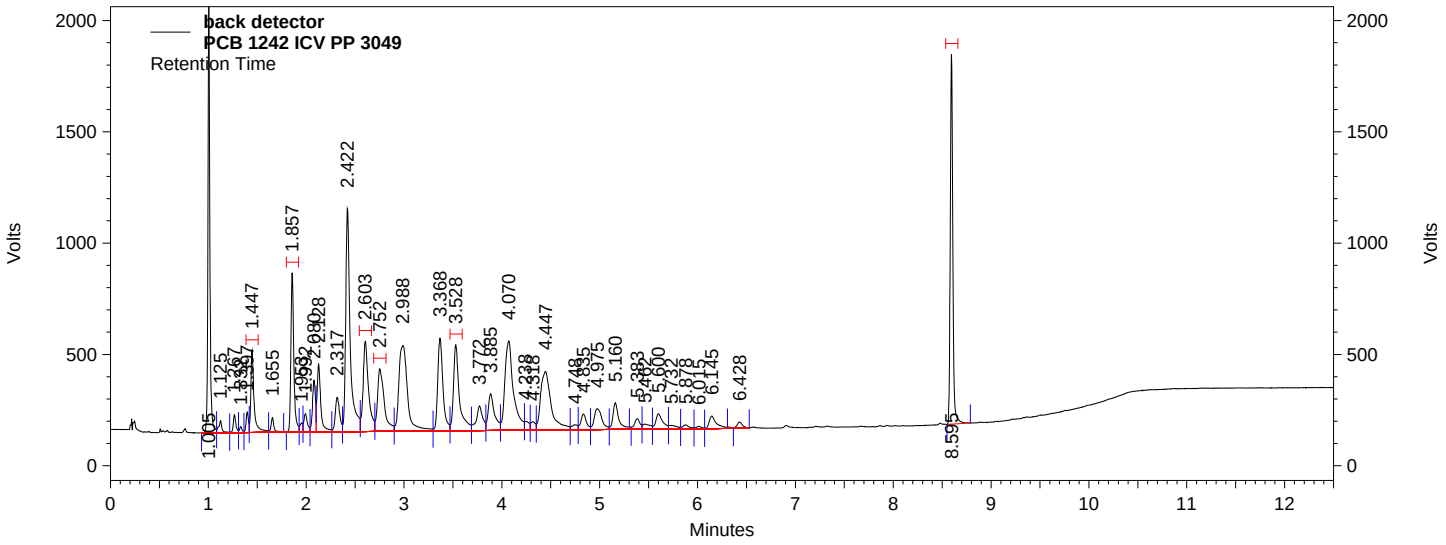
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.313	38602895	101.124
Aroclor 1242 #1	1.673	11630391	0.102
Aroclor 1242 #2	2.387	15999708	0.102
Aroclor 1242 #3	2.943	20630356	0.101
Aroclor 1242 #4	3.067	14857908	0.101
Aroclor 1242 #5	3.442	10297932	0.102
SURRDCB	9.027	46916289	102.870
Aroclor 1242		73416295	0.508

PCB Analysis Report (1242) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\022.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1242.met
User: jjy
Sample ID: PCB 1242 ICV PP 3049
Acquired: 11/11/2010 9:55:44 PM
Printed: 11/15/2010 1:52:52 PM

JJY
11/15/10

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.005	20302676	102.724
Aroclor 1242 #1	1.447	6501760	0.106
Aroclor 1242 #2	1.857	11571104	0.103
Aroclor 1242 #3	2.603	12067965	0.104
Aroclor 1242 #4	2.752	10299715	0.104
Aroclor 1242 #5	3.528	12416992	0.104
SURRDCB	8.595	23375612	103.950
Aroclor 1242		52857536	0.521

QC Check Standard Report

Sequence : C:\Instarch\Semi7\Sequence\111110pcbic.seq
User : jjy
Printed : 11/15/2010 1:53:13 PM

File	Sample ID	Acquired
C:\Instarch\Semi7\Data\111110pcbic\023.dat	PCB 1248 ICV PP 3050	11/15/2010 1:53:13 PM

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMX	100.000	95.865	4.135	20.000	Passed
Aroclor 1248 #1	0.100	0.100	0.445	20.000	Passed
Aroclor 1248 #2	0.100	0.098	1.935	20.000	Passed
Aroclor 1248 #3	0.100	0.099	1.401	20.000	Passed
Aroclor 1248 #4	0.100	0.099	1.294	20.000	Passed
Aroclor 1248 #5	0.100	0.097	3.362	20.000	Passed
SURRDCB	100.000	96.188	3.812	20.000	Passed
Aroclor 1248	0.500	0.492	1.510	20.000	Passed

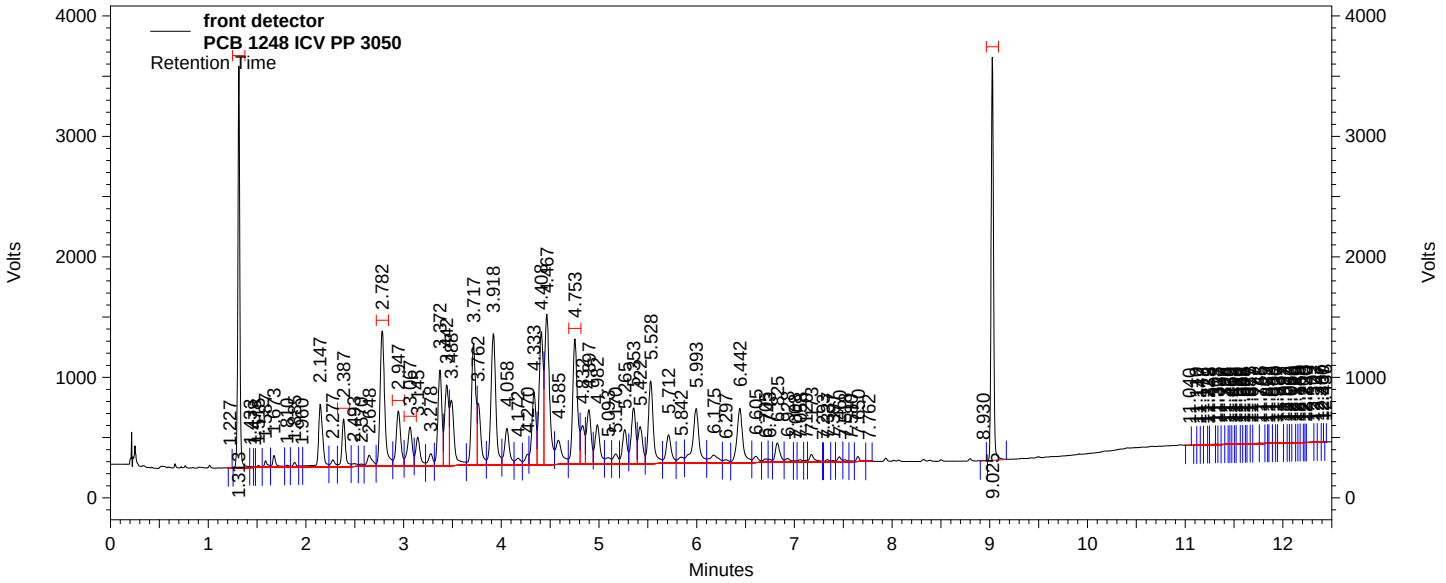
back detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMX	100.000	97.008	2.992	20.000	Passed
Aroclor 1248 #1	0.100	0.107	7.273	20.000	Passed
Aroclor 1248 #2	0.100	0.101	1.168	20.000	Passed
Aroclor 1248 #3	0.100	0.104	4.134	20.000	Passed
Aroclor 1248 #4	0.100	0.101	1.199	20.000	Passed
Aroclor 1248 #5	0.100	0.101	0.943	20.000	Passed
SURRDCB	100.000	97.401	2.599	20.000	Passed
Aroclor 1248	0.500	0.515	2.943	20.000	Passed

PCB Analysis Report (1248) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\023.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1248.met
User: jjy
Sample ID: PCB 1248 ICV PP 3050
Acquired: 11/11/2010 10:11:23 PM JJY
Printed: 11/15/2010 1:53:08 PM 11/15/10

Data Summary: {Data Description}



front detector Results

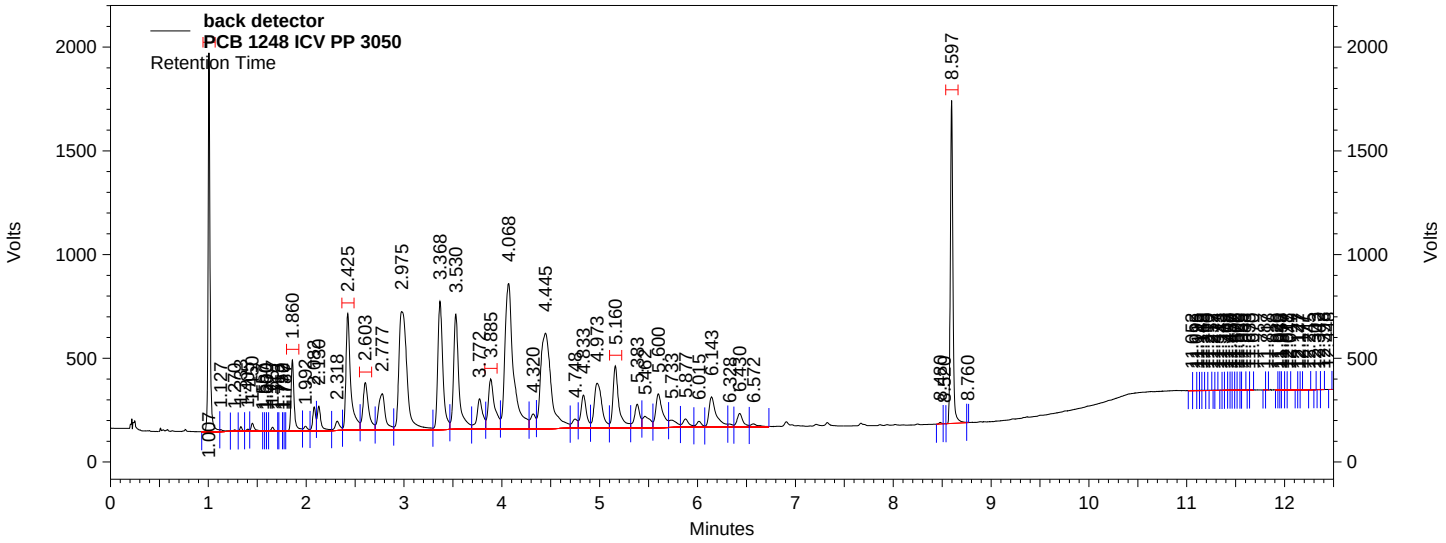
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.313	35947690	95.865
Aroclor 1248 #1	2.387	7578046	0.100
Aroclor 1248 #2	2.782	28496189	0.098
Aroclor 1248 #3	2.947	11472007	0.099
Aroclor 1248 #4	3.067	8322491	0.099
Aroclor 1248 #5	4.753	26705459	0.097
SURRDCB	9.025	43940343	96.188
Aroclor 1248		82574192	0.492

PCB Analysis Report (1248) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\023.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1248.met
User: jjy
Sample ID: PCB 1248 ICV PP 3050
Acquired: 11/11/2010 10:11:23 PM
Printed: 11/15/2010 1:53:08 PM

JJY
11/15/10

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.007	19078729	97.008
Aroclor 1248 #1	1.860	5703045	0.107
Aroclor 1248 #2	2.425	14664584	0.101
Aroclor 1248 #3	2.603	7077314	0.104
Aroclor 1248 #4	3.885	8338156	0.101
Aroclor 1248 #5	5.160	9534739	0.101
SURRDCB	8.597	21915032	97.401
Aroclor 1248		45317838	0.515

QC Check Standard Report

Sequence : C:\Instarch\Semi7\Sequence\111110pcbic.seq
User : jjy
Printed : 11/15/2010 1:53:28 PM

File	Sample ID	Acquired
C:\Instarch\Semi7\Data\111110pcbic\024.dat	PCB 1254 ICV PP 3051	11/15/2010 1:53:28 PM

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMX	100.000	105.048	5.048	20.000	Passed
Aroclor 1254 #1	0.100	0.104	4.317	20.000	Passed
Aroclor 1254 #2	0.100	0.104	4.252	20.000	Passed
Aroclor 1254 #3	0.100	0.105	4.996	20.000	Passed
Aroclor 1254 #4	0.100	0.105	5.115	20.000	Passed
Aroclor 1254 #5	0.100	0.106	5.971	20.000	Passed
SURRDCB	100.000	104.531	4.531	20.000	Passed
Aroclor 1254	0.500	0.525	4.930	20.000	Passed

back detector

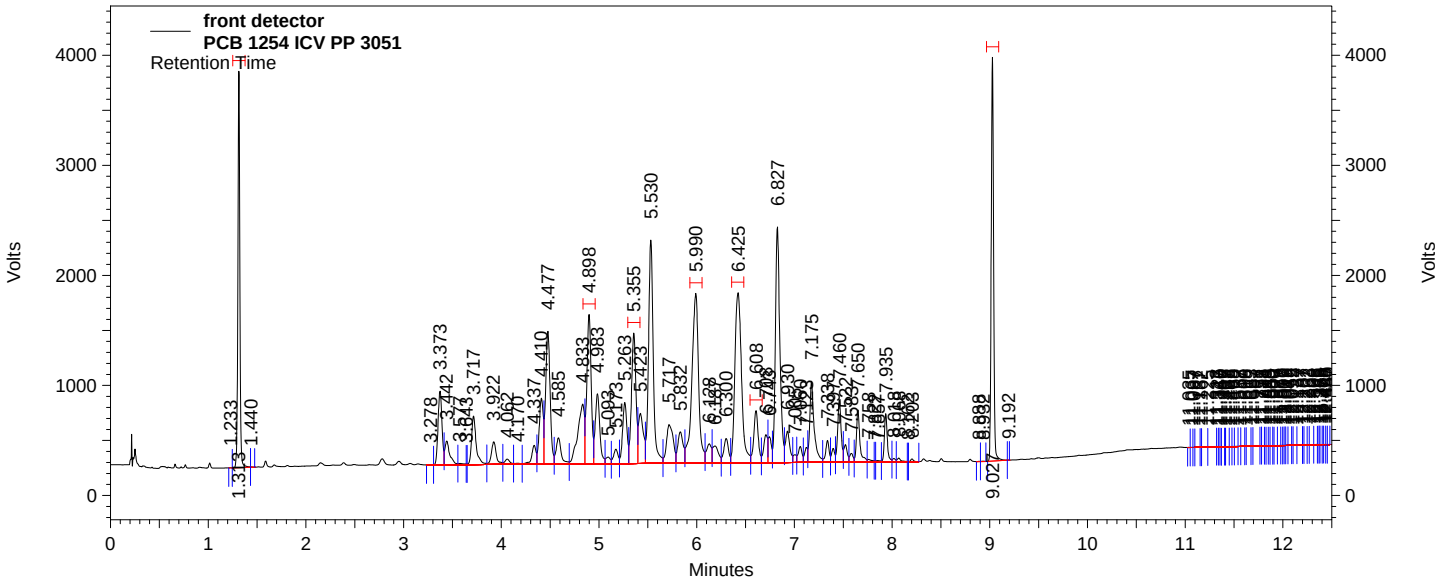
Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMX	100.000	105.983	5.983	20.000	Passed
Aroclor 1254 #1	0.100	0.106	5.769	20.000	Passed
Aroclor 1254 #2	0.100	0.106	5.649	20.000	Passed
Aroclor 1254 #3	0.100	0.106	5.724	20.000	Passed
Aroclor 1254 #4	0.100	0.106	6.164	20.000	Passed
Aroclor 1254 #5	0.100	0.106	5.526	20.000	Passed
SURRDCB	100.000	105.240	5.240	20.000	Passed
Aroclor 1254	0.500	0.529	5.766	20.000	Passed

PCB Analysis Report (1254) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\024.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1254.met
User: jjy
Sample ID: PCB 1254 ICV PP 3051
Acquired: 11/11/2010 10:27:02 PM
Printed: 11/15/2010 1:53:24 PM

JJY
11/15/10

Data Summary: {Data Description}



front detector Results

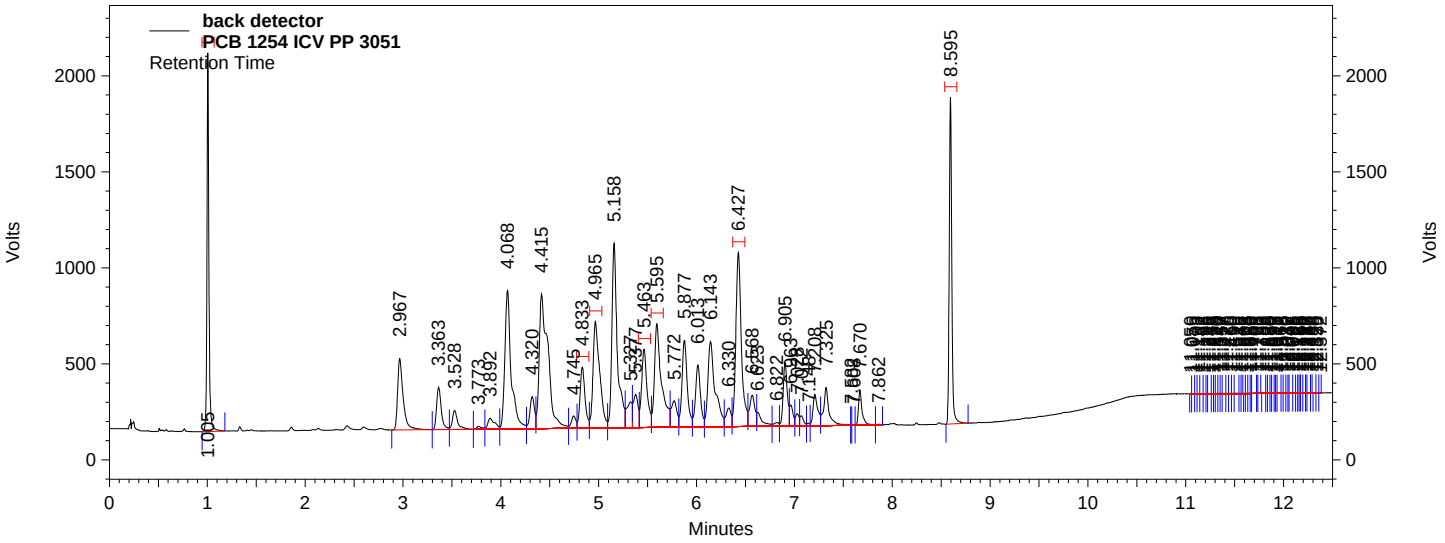
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.313	38660574	105.048
Aroclor 1254 #1	4.898	32514184	0.104
Aroclor 1254 #2	5.355	28845811	0.104
Aroclor 1254 #3	5.990	56446179	0.105
Aroclor 1254 #4	6.425	56254991	0.105
Aroclor 1254 #5	6.608	11570775	0.106
SURRDCB	9.027	47862528	104.531
Aroclor 1254		185631940	0.525

PCB Analysis Report (1254) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\024.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1254.met
User: jjy
Sample ID: PCB 1254 ICV PP 3051
Acquired: 11/11/2010 10:27:02 PM
Printed: 11/15/2010 1:53:24 PM

JJY
11/15/10

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.005	20708011	105.983
Aroclor 1254 #1	4.833	8625833	0.106
Aroclor 1254 #2	4.965	20317767	0.106
Aroclor 1254 #3	5.463	12138618	0.106
Aroclor 1254 #4	5.595	20834002	0.106
Aroclor 1254 #5	6.427	27548173	0.106
SURRDCB	8.595	23783691	105.240
Aroclor 1254		89464393	0.529

QC Check Standard Report

Sequence : C:\Instarch\Semi7\Sequence\111110pcbic.seq
User : jjy
Printed : 11/15/2010 1:53:43 PM

File	Sample ID	Acquired
C:\Instarch\Semi7\Data\111110pcbic\025.dat	PCB 1262 ICV PP 3052	11/15/2010 1:53:43 PM

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMX	100.000	114.383	14.383	20.000	Passed
Aroclor 1262 #1	0.100	0.115	15.198	20.000	Passed
Aroclor 1262 #2	0.100	0.116	16.230	20.000	Passed
Aroclor 1262 #3	0.100	0.116	15.572	20.000	Passed
Aroclor 1262 #4	0.100	0.114	14.369	20.000	Passed
Aroclor 1262 #5	0.100	0.118	18.414	20.000	Passed
SURRDCB	100.000	114.758	14.758	20.000	Passed
Aroclor 1262	0.500	0.580	15.957	20.000	Passed

back detector

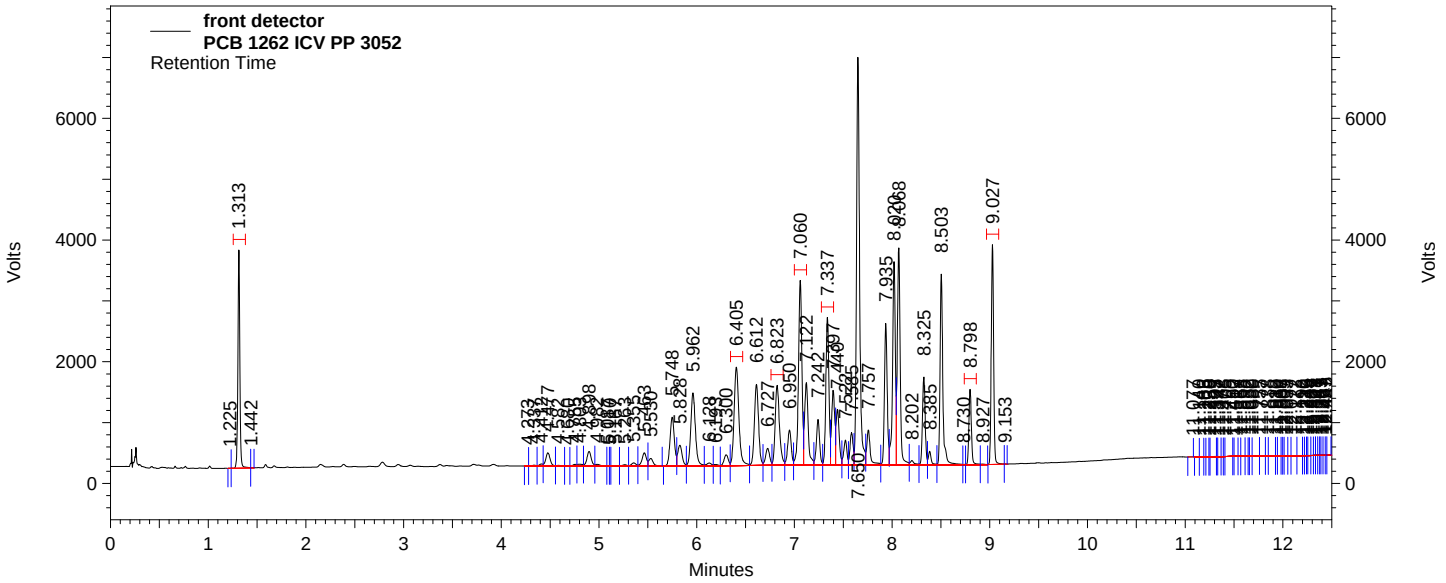
Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMX	100.000	115.882	15.882	20.000	Passed
Aroclor 1262 #1	0.100	0.117	16.892	20.000	Passed
Aroclor 1262 #2	0.100	0.118	17.818	20.000	Passed
Aroclor 1262 #3	0.100	0.119	18.575	20.000	Passed
Aroclor 1262 #4	0.100	0.117	17.043	20.000	Passed
Aroclor 1262 #5	0.100	0.118	18.359	20.000	Passed
SURRDCB	100.000	116.011	16.011	20.000	Passed
Aroclor 1262	0.500	0.589	17.737	20.000	Passed

PCB Analysis Report (1262) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\025.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1262.met
User: jjy
Sample ID: PCB 1262 ICV PP 3052
Acquired: 11/11/2010 10:42:43 PM
Printed: 11/15/2010 1:53:39 PM

JJY
11/15/10

Data Summary: {Data Description}



front detector Results

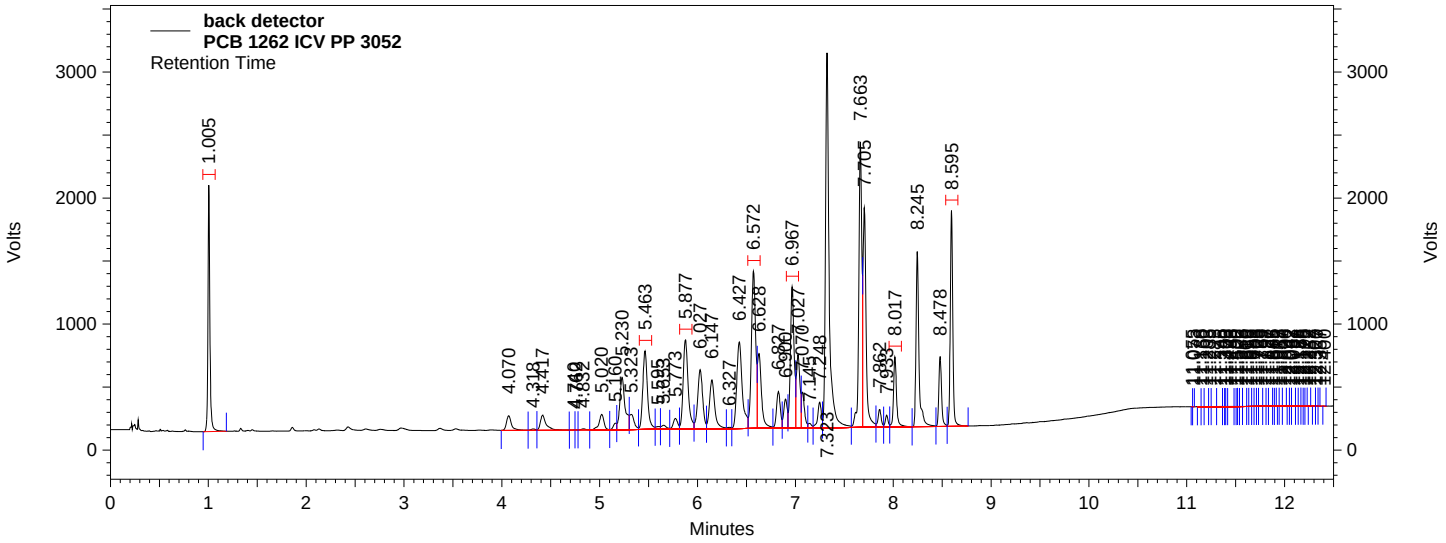
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.313	38370389	114.383
Aroclor 1262 #1	6.405	42743990	0.115
Aroclor 1262 #2	6.823	30739263	0.116
Aroclor 1262 #3	7.060	57586413	0.116
Aroclor 1262 #4	7.337	40675297	0.114
Aroclor 1262 #5	8.798	16470873	0.118
SURRDCB	9.027	46891890	114.758
Aroclor 1262		188215836	0.580

PCB Analysis Report (1262) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\025.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1262.met
User: jjy
Sample ID: PCB 1262 ICV PP 3052
Acquired: 11/11/2010 10:42:43 PM
Printed: 11/15/2010 1:53:39 PM

JJY
11/15/10

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.005	20471149	115.882
Aroclor 1262 #1	5.463	15912469	0.117
Aroclor 1262 #2	5.877	19099071	0.118
Aroclor 1262 #3	6.572	28812749	0.119
Aroclor 1262 #4	6.967	22821305	0.117
Aroclor 1262 #5	8.017	9267026	0.118
SURRDCB	8.595	23567341	116.011
Aroclor 1262		95912620	0.589

QC Check Standard Report

Sequence : C:\Instarch\Semi7\Sequence\111110pcbic.seq
User : jjy
Printed : 11/15/2010 1:54:00 PM

File	Sample ID	Acquired
C:\Instarch\Semi7\Data\111110pcbic\026.dat	PCB 1268 ICV PP 3073	11/15/2010 1:54:00 PM

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMX	100.000	102.732	2.732	20.000	Passed
Aroclor 1268 #1	0.100	0.093	7.070	20.000	Passed
Aroclor 1268 #2	0.100	0.103	2.781	20.000	Passed
Aroclor 1268 #3	0.100	0.094	6.132	20.000	Passed
Aroclor 1268 #4	0.100	0.107	6.838	20.000	Passed
Aroclor 1268 #5	0.100	0.115	15.029	20.000	Passed
SURRDCB	100.000	112.796	12.796	20.000	Passed
Aroclor 1268	0.500	0.511	2.289	20.000	Passed

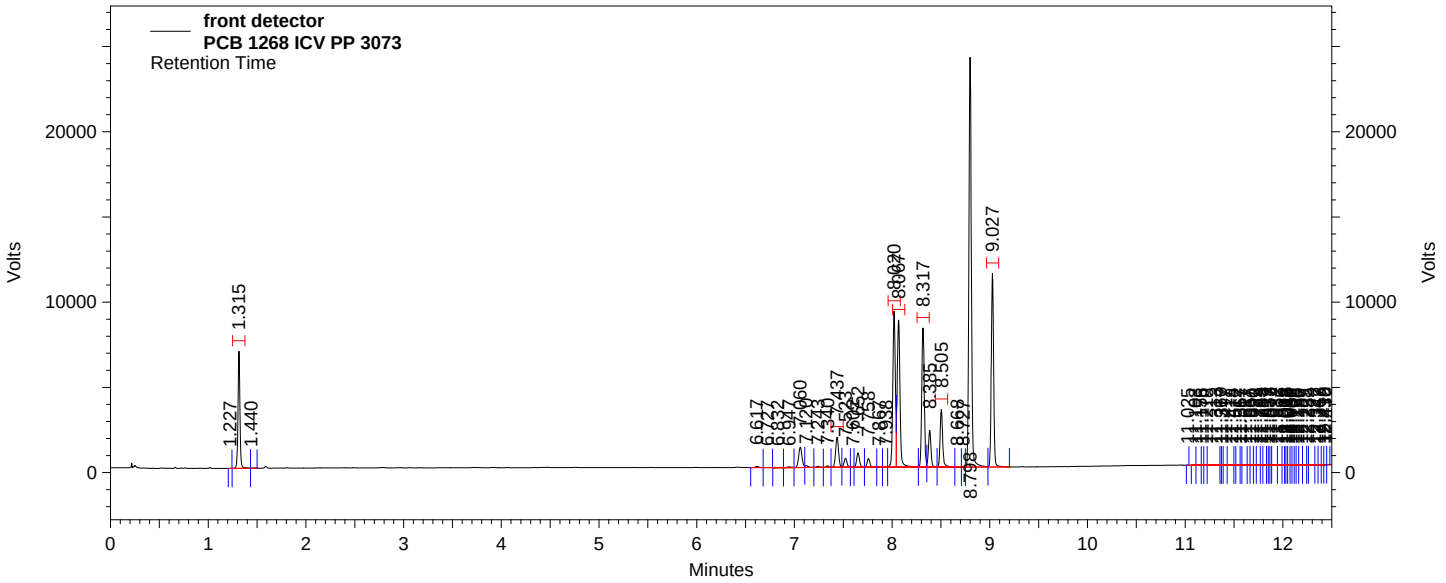
back detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMX	100.000	102.865	2.865	20.000	Passed
Aroclor 1268 #1	0.100	0.094	6.191	20.000	Passed
Aroclor 1268 #2	0.100	0.103	3.310	20.000	Passed
Aroclor 1268 #3	0.100	0.094	5.507	20.000	Passed
Aroclor 1268 #4	0.100	0.099	0.909	20.000	Passed
Aroclor 1268 #5	0.100	0.116	15.537	20.000	Passed
SURRDCB	100.000	113.777	13.777	20.000	Passed
Aroclor 1268	0.500	0.506	1.248	20.000	Passed

PCB Analysis Report (1268) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\026.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1268.met
User: jjy
Sample ID: PCB 1268 ICV PP 3073 JJY
Acquired: 11/11/2010 10:58:25 PM 11/15/10
Printed: 11/15/2010 1:53:55 PM

Data Summary: {Data Description}



front detector Results

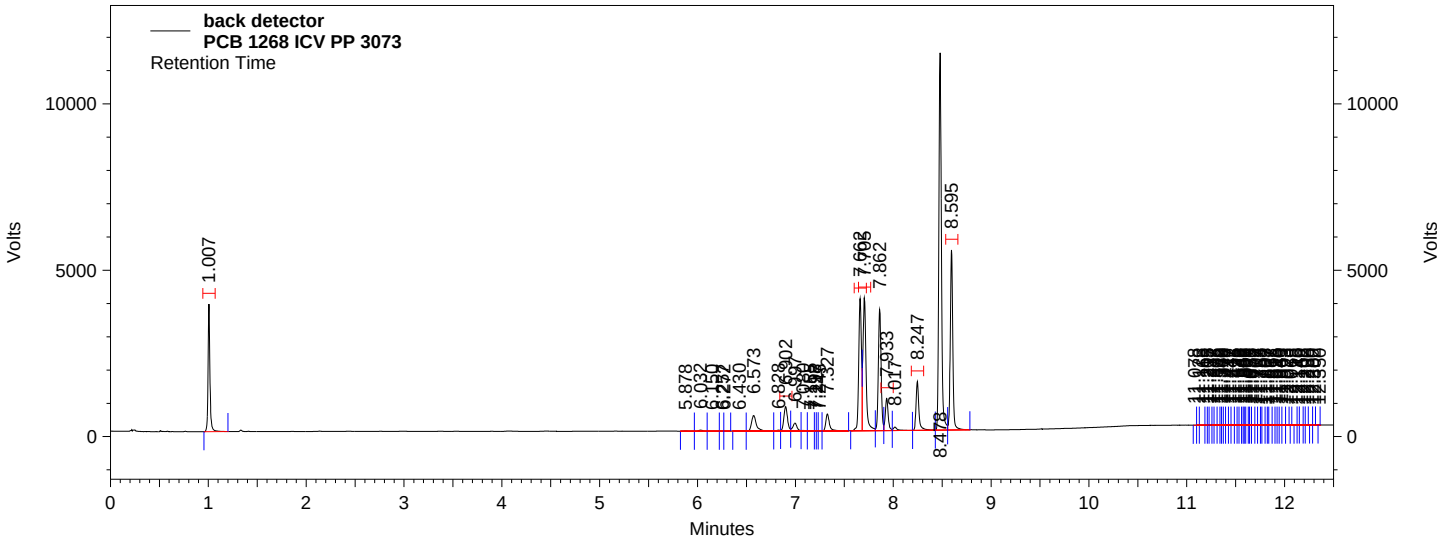
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.315	73302190	102.732
Aroclor 1268 #1	7.437	29345511	0.093
Aroclor 1268 #2	8.020	128915427	0.103
Aroclor 1268 #3	8.067	132083377	0.094
Aroclor 1268 #4	8.317	112174168	0.107
Aroclor 1268 #5	8.505	48480673	0.115
SURRDCB	9.027	146338328	112.796
Aroclor 1268		450999156	0.511

PCB Analysis Report (1268) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\026.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1268.met
User: jjy
Sample ID: PCB 1268 ICV PP 3073
Acquired: 11/11/2010 10:58:25 PM
Printed: 11/15/2010 1:53:55 PM

JJY
11/15/10

Data Summary: {Data Description}



back detector Results

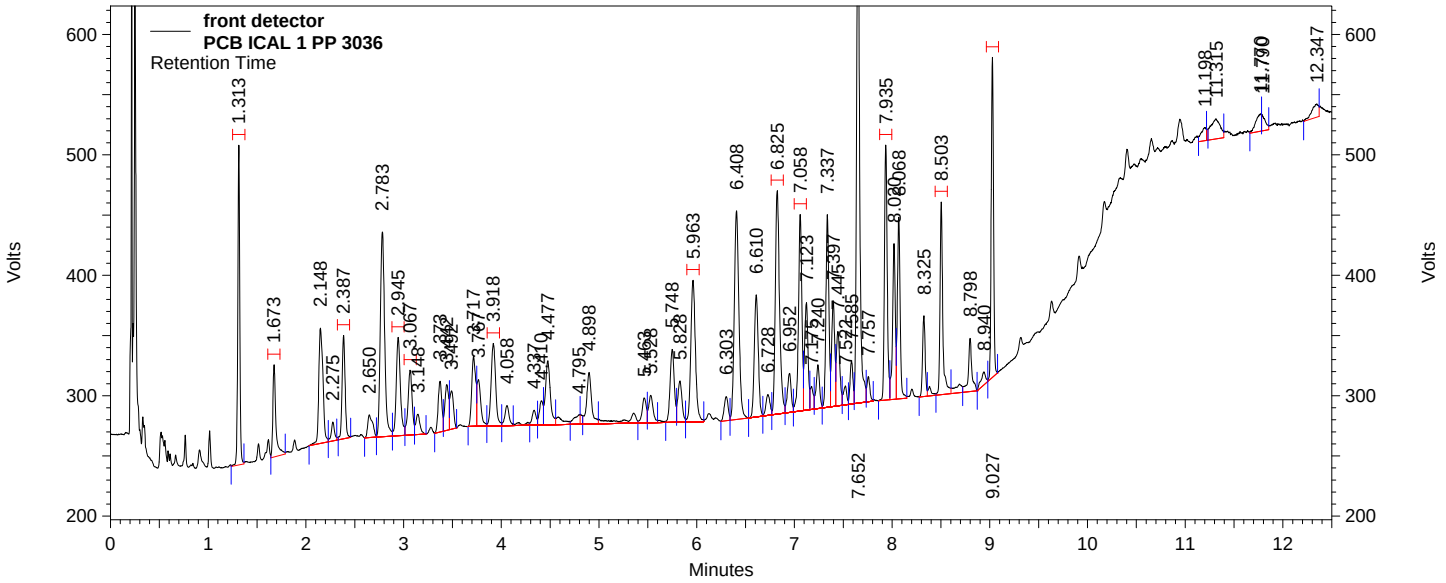
Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.007	39497101	102.865
Aroclor 1268 #1	6.902	14556116	0.094
Aroclor 1268 #2	7.662	59817552	0.103
Aroclor 1268 #3	7.705	66083388	0.094
Aroclor 1268 #4	7.933	15272343	0.099
Aroclor 1268 #5	8.247	23295009	0.116
SURRDCB	8.595	74732214	113.777
Aroclor 1268		179024408	0.506

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\003.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
User: jjy
Sample ID: PCB ICAL 1 PP 3036
Acquired: 11/11/2010 4:58:08 PM
Printed: 11/15/2010 1:49:22 PM

JJY
11/15/10

Data Summary: {Data Description}



back detector Results

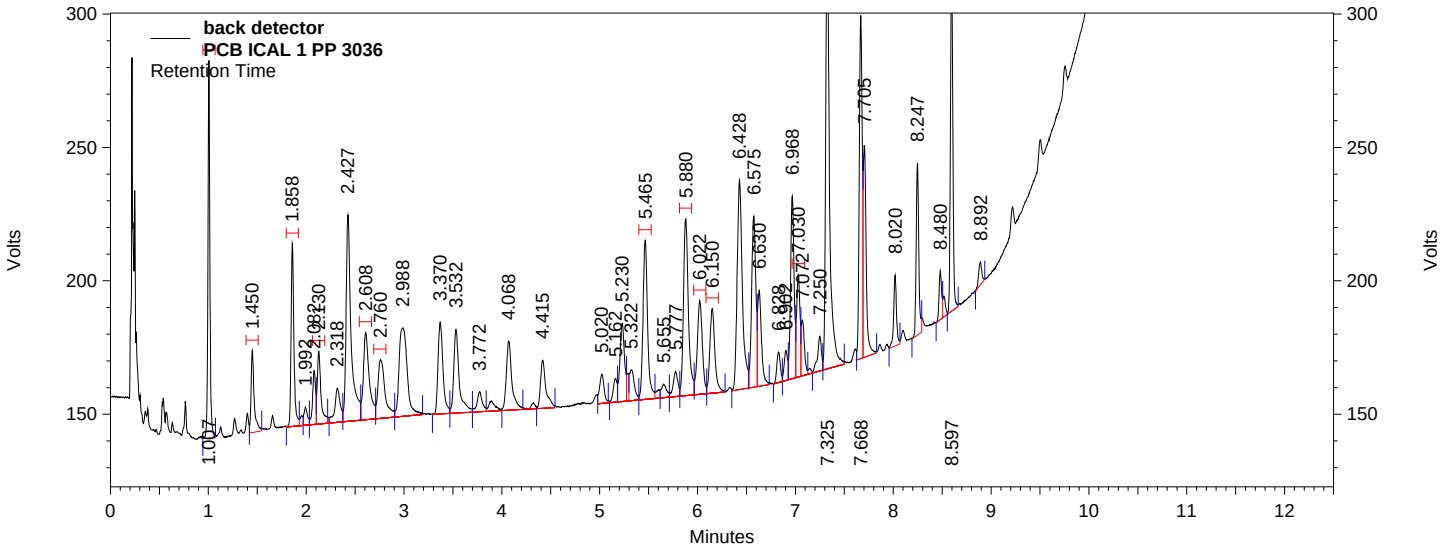
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.007	1500033	6.000 CAL
Aroclor 1016 #1	1.450	514334	0.006 CAL
Aroclor 1016 #2	1.858	1063602	0.006 CAL
Aroclor 1016 #3	2.130	557648	0.006 CAL
Aroclor 1016 #4	2.608	1073011	0.006 CAL
Aroclor 1016 #5	2.760	855088	0.006 CAL
Aroclor 1260 #1	5.465	1495406	0.006 CAL
Aroclor 1260 #2	5.880	1783959	0.006 CAL
Aroclor 1260 #3	6.022	973647	0.006 CAL
Aroclor 1260 #4	6.150	866530	0.006 CAL
Aroclor 1260 #5	7.030	711768	0.006 CAL
SURRDCBPCB	8.597	1728737	6.000 CAL
Aroclor 1016		4063683	0.030 CAL
Aroclor 1260		5831310	0.030 CAL

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\003.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
User: jjy
Sample ID: PCB ICAL 1 PP 3036
Acquired: 11/11/2010 4:58:08 PM
Printed: 11/15/2010 1:49:22 PM

JJY
11/15/10

Data Summary: {Data Description}



back detector Results

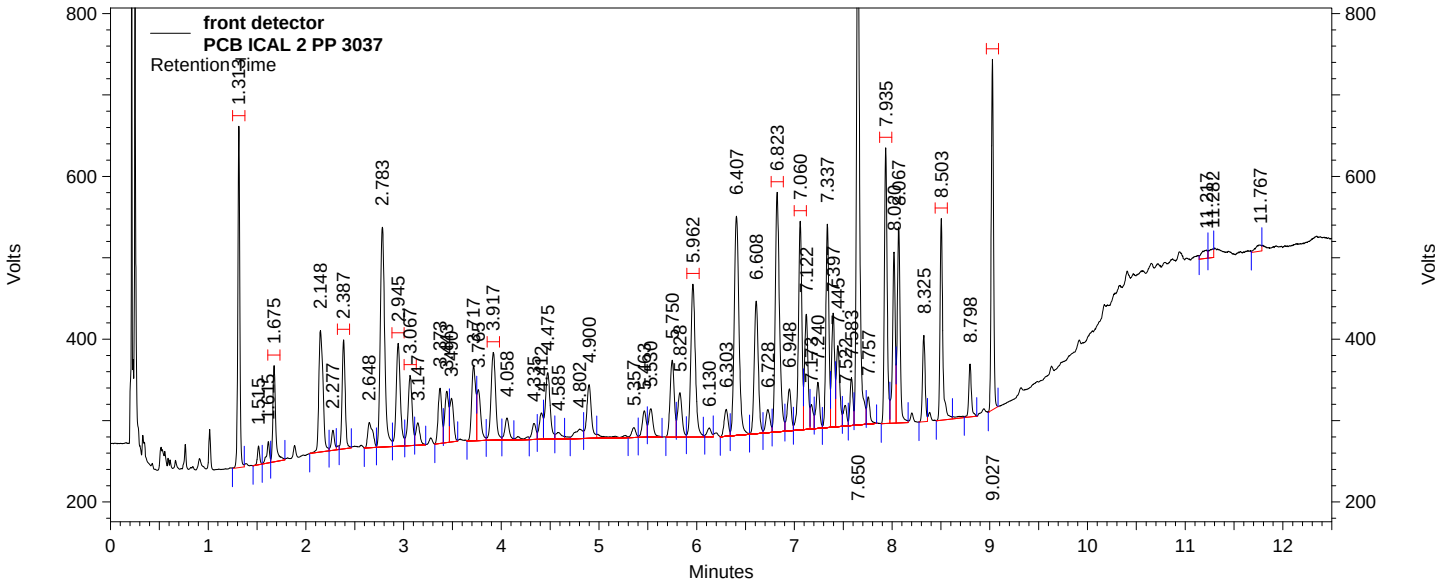
Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.007	1500033	6.000 CAL
Aroclor 1016 #1	1.450	514334	0.006 CAL
Aroclor 1016 #2	1.858	1063602	0.006 CAL
Aroclor 1016 #3	2.130	557648	0.006 CAL
Aroclor 1016 #4	2.608	1073011	0.006 CAL
Aroclor 1016 #5	2.760	855088	0.006 CAL
Aroclor 1260 #1	5.465	1495406	0.006 CAL
Aroclor 1260 #2	5.880	1783959	0.006 CAL
Aroclor 1260 #3	6.022	973647	0.006 CAL
Aroclor 1260 #4	6.150	866530	0.006 CAL
Aroclor 1260 #5	7.030	711768	0.006 CAL
SURRDCBPCB	8.597	1728737	6.000 CAL
Aroclor 1016		4063683	0.030 CAL
Aroclor 1260		5831310	0.030 CAL

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\004.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
User: jjy
Sample ID: PCB ICAL 2 PP 3037
Acquired: 11/11/2010 5:13:48 PM
Printed: 11/15/2010 1:49:31 PM

JJY
11/15/10

Data Summary: {Data Description}



back detector Results

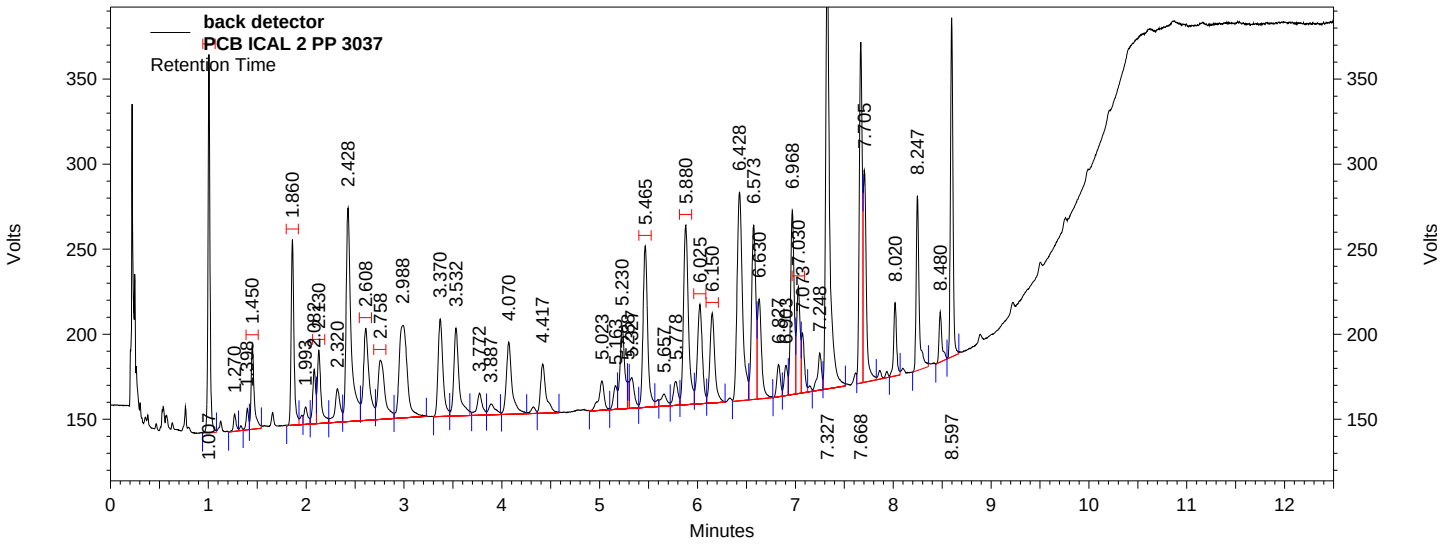
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.007	2401761	10.000 CAL
Aroclor 1016 #1	1.450	819548	0.010 CAL
Aroclor 1016 #2	1.860	1691735	0.010 CAL
Aroclor 1016 #3	2.130	856764	0.010 CAL
Aroclor 1016 #4	2.608	1703777	0.010 CAL
Aroclor 1016 #5	2.758	1322408	0.010 CAL
Aroclor 1260 #1	5.465	2365259	0.010 CAL
Aroclor 1260 #2	5.880	2832875	0.010 CAL
Aroclor 1260 #3	6.025	1569778	0.010 CAL
Aroclor 1260 #4	6.150	1402606	0.010 CAL
Aroclor 1260 #5	7.030	1194390	0.010 CAL
SURRDCBPCB	8.597	2735270	10.000 CAL
Aroclor 1016		6394232	0.050 CAL
Aroclor 1260		9364908	0.050 CAL

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\004.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
User: jjy
Sample ID: PCB ICAL 2 PP 3037
Acquired: 11/11/2010 5:13:48 PM
Printed: 11/15/2010 1:49:31 PM

JJY
11/15/10

Data Summary: {Data Description}



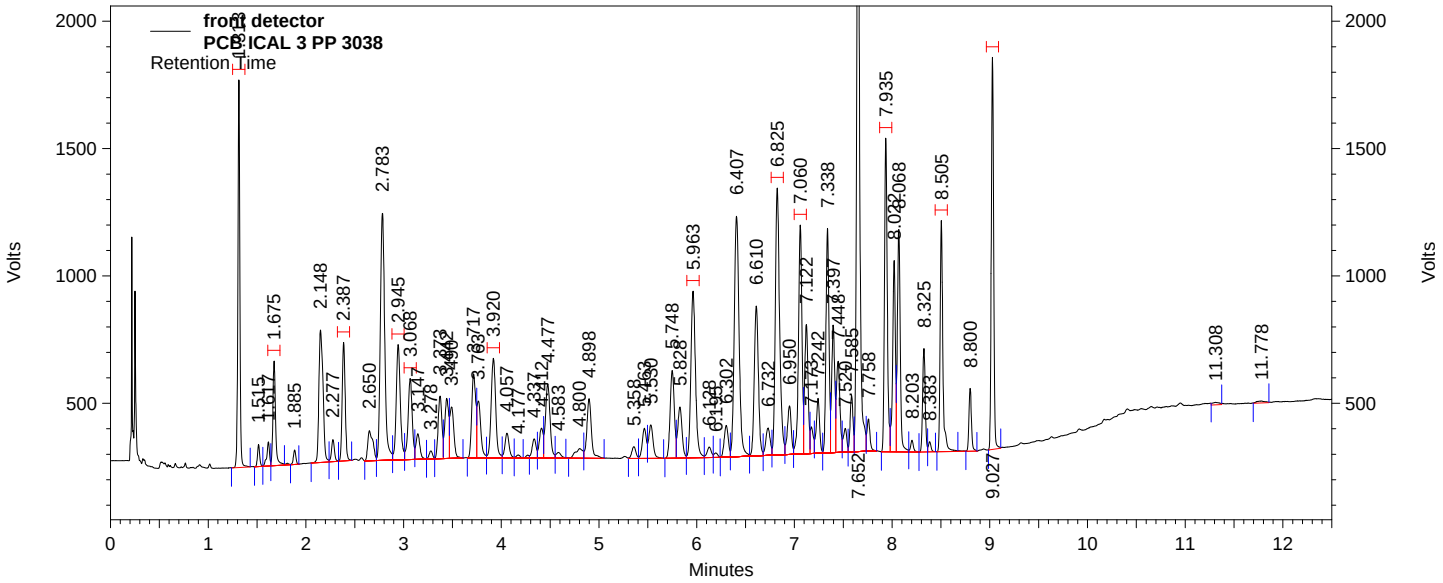
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.007	2401761	10.000 CAL
Aroclor 1016 #1	1.450	819548	0.010 CAL
Aroclor 1016 #2	1.860	1691735	0.010 CAL
Aroclor 1016 #3	2.130	856764	0.010 CAL
Aroclor 1016 #4	2.608	1703777	0.010 CAL
Aroclor 1016 #5	2.758	1322408	0.010 CAL
Aroclor 1260 #1	5.465	2365259	0.010 CAL
Aroclor 1260 #2	5.880	2832875	0.010 CAL
Aroclor 1260 #3	6.025	1569778	0.010 CAL
Aroclor 1260 #4	6.150	1402606	0.010 CAL
Aroclor 1260 #5	7.030	1194390	0.010 CAL
SURRDCBPCB	8.597	2735270	10.000 CAL
Aroclor 1016		6394232	0.050 CAL
Aroclor 1260		9364908	0.050 CAL

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\005.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
User: jjy
Sample ID: PCB ICAL 3 PP 3038 JJY
Acquired: 11/11/2010 5:29:27 PM 11/15/10
Printed: 11/15/2010 1:49:39 PM

Data Summary: {Data Description}



back detector Results

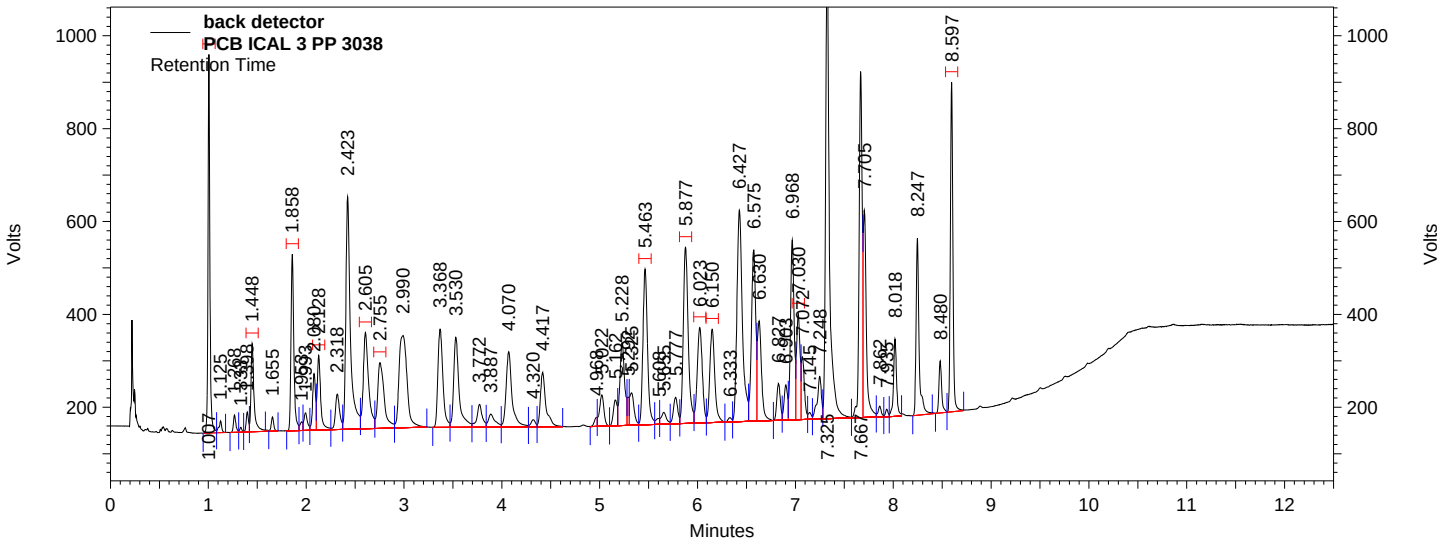
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.007	8319713	40.000 CAL
Aroclor 1016 #1	1.448	3111055	0.040 CAL
Aroclor 1016 #2	1.858	5922796	0.040 CAL
Aroclor 1016 #3	2.128	3026584	0.040 CAL
Aroclor 1016 #4	2.605	6046183	0.040 CAL
Aroclor 1016 #5	2.755	4973605	0.040 CAL
Aroclor 1260 #1	5.463	8389496	0.040 CAL
Aroclor 1260 #2	5.877	10156128	0.040 CAL
Aroclor 1260 #3	6.023	5758195	0.040 CAL
Aroclor 1260 #4	6.150	5443202	0.040 CAL
Aroclor 1260 #5	7.030	4425357	0.040 CAL
SURRDCBPCB	8.597	9930367	40.000 CAL
Aroclor 1016		23080223	0.200 CAL
Aroclor 1260		34172378	0.200 CAL

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\005.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
User: jjy
Sample ID: PCB ICAL 3 PP 3038
Acquired: 11/11/2010 5:29:27 PM
Printed: 11/15/2010 1:49:39 PM

JJY
11/15/10

Data Summary: {Data Description}



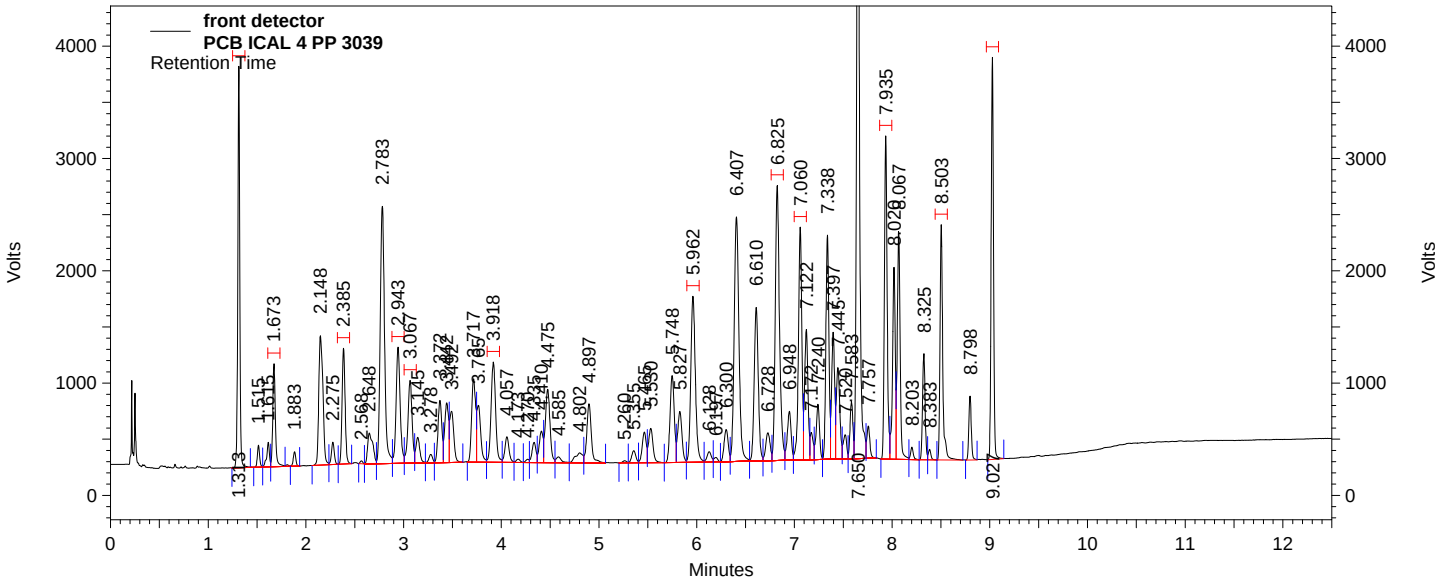
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.007	8319713	40.000 CAL
Aroclor 1016 #1	1.448	3111055	0.040 CAL
Aroclor 1016 #2	1.858	5922796	0.040 CAL
Aroclor 1016 #3	2.128	3026584	0.040 CAL
Aroclor 1016 #4	2.605	6046183	0.040 CAL
Aroclor 1016 #5	2.755	4973605	0.040 CAL
Aroclor 1260 #1	5.463	8389496	0.040 CAL
Aroclor 1260 #2	5.877	10156128	0.040 CAL
Aroclor 1260 #3	6.023	5758195	0.040 CAL
Aroclor 1260 #4	6.150	5443202	0.040 CAL
Aroclor 1260 #5	7.030	4425357	0.040 CAL
SURRDCBPCB	8.597	9930367	40.000 CAL
Aroclor 1016		23080223	0.200 CAL
Aroclor 1260		34172378	0.200 CAL

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\006.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
User: jjy
Sample ID: PCB ICAL 4 PP 3039 JJY
Acquired: 11/11/2010 5:45:06 PM 11/15/10
Printed: 11/15/2010 1:49:48 PM

Data Summary: {Data Description}



back detector Results

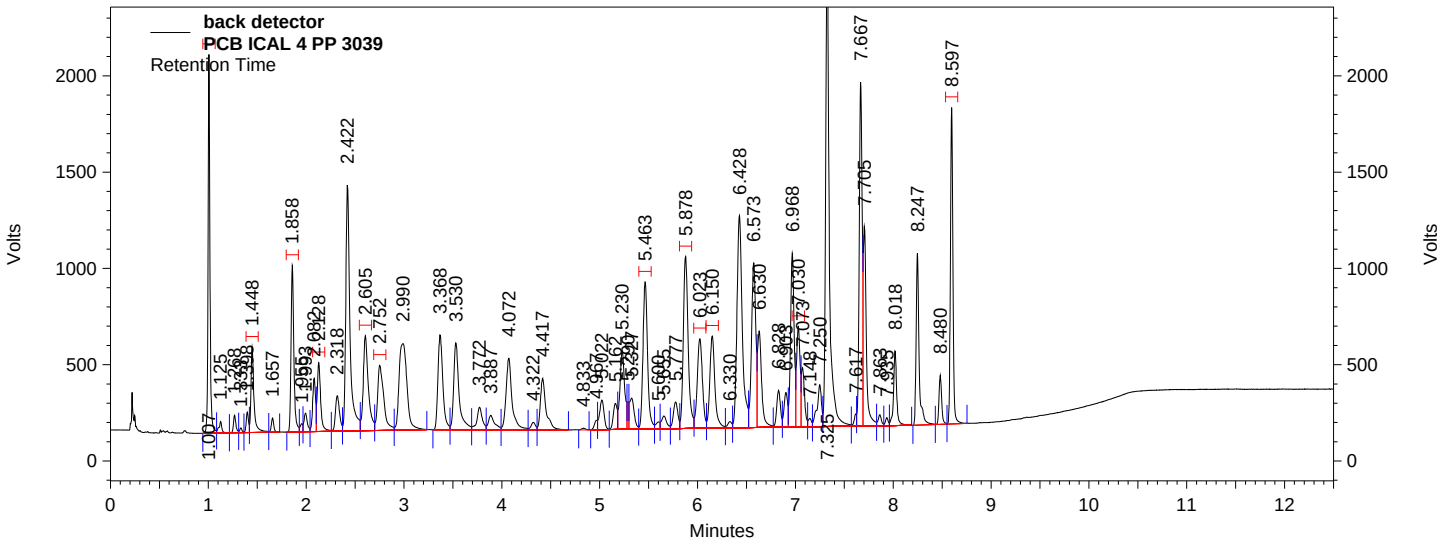
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.007	19905994	100.000 CAL
Aroclor 1016 #1	1.448	7172910	0.100 CAL
Aroclor 1016 #2	1.858	13396294	0.100 CAL
Aroclor 1016 #3	2.128	6700644	0.100 CAL
Aroclor 1016 #4	2.605	13626659	0.100 CAL
Aroclor 1016 #5	2.752	11271876	0.100 CAL
Aroclor 1260 #1	5.463	19146167	0.100 CAL
Aroclor 1260 #2	5.878	23567247	0.100 CAL
Aroclor 1260 #3	6.023	13218890	0.100 CAL
Aroclor 1260 #4	6.150	13177550	0.100 CAL
Aroclor 1260 #5	7.030	10098414	0.100 CAL
SURRDCBPCB	8.597	22617594	100.000 CAL
Aroclor 1016		52168383	0.500 CAL
Aroclor 1260		79208268	0.500 CAL

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\006.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
User: jjy
Sample ID: PCB ICAL 4 PP 3039
Acquired: 11/11/2010 5:45:06 PM
Printed: 11/15/2010 1:49:48 PM

JJY
11/15/10

Data Summary: {Data Description}



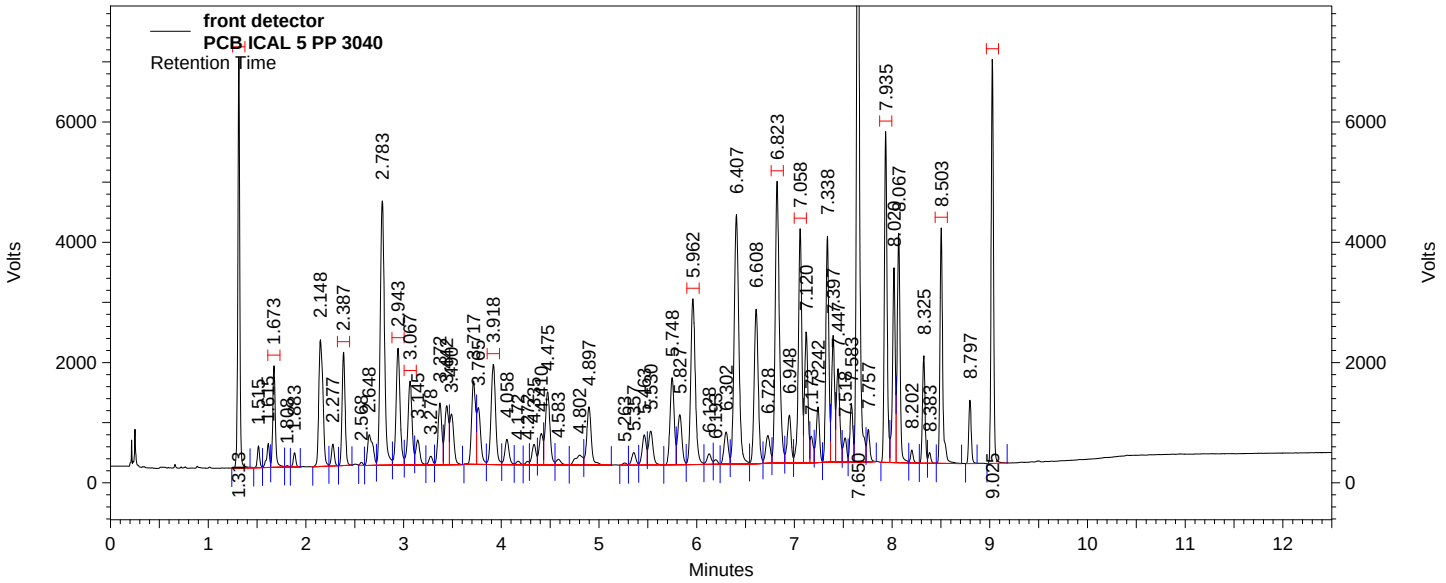
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.007	19905994	100.000 CAL
Aroclor 1016 #1	1.448	7172910	0.100 CAL
Aroclor 1016 #2	1.858	13396294	0.100 CAL
Aroclor 1016 #3	2.128	6700644	0.100 CAL
Aroclor 1016 #4	2.605	13626659	0.100 CAL
Aroclor 1016 #5	2.752	11271876	0.100 CAL
Aroclor 1260 #1	5.463	19146167	0.100 CAL
Aroclor 1260 #2	5.878	23567247	0.100 CAL
Aroclor 1260 #3	6.023	13218890	0.100 CAL
Aroclor 1260 #4	6.150	13177550	0.100 CAL
Aroclor 1260 #5	7.030	10098414	0.100 CAL
SURRDCBPCB	8.597	22617594	100.000 CAL
Aroclor 1016		52168383	0.500 CAL
Aroclor 1260		79208268	0.500 CAL

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\007.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
User: jjy
Sample ID: PCB ICAL 5 PP 3040
Acquired: 11/11/2010 6:00:45 PM JJY
Printed: 11/15/2010 1:49:57 PM 11/15/10

Data Summary: {Data Description}



back detector Results

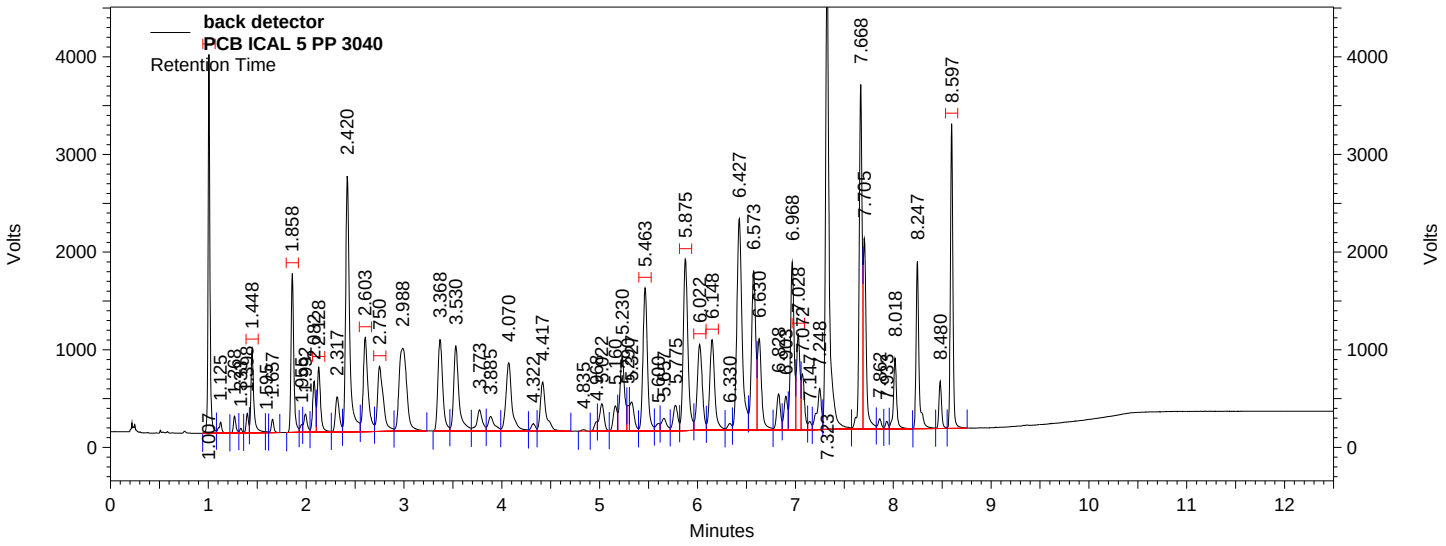
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.007	38574203	200.000 CAL
Aroclor 1016 #1	1.448	13084053	0.200 CAL
Aroclor 1016 #2	1.858	24757646	0.200 CAL
Aroclor 1016 #3	2.128	12167843	0.200 CAL
Aroclor 1016 #4	2.603	25138760	0.200 CAL
Aroclor 1016 #5	2.750	20965117	0.200 CAL
Aroclor 1260 #1	5.463	35898821	0.200 CAL
Aroclor 1260 #2	5.875	44537294	0.200 CAL
Aroclor 1260 #3	6.022	24443656	0.200 CAL
Aroclor 1260 #4	6.148	25128344	0.200 CAL
Aroclor 1260 #5	7.028	18811261	0.200 CAL
SURRDCBPCB	8.597	42408969	200.000 CAL
Aroclor 1016		96113419	1.000 CAL
Aroclor 1260		148819376	1.000 CAL

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\007.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
User: jjy
Sample ID: PCB ICAL 5 PP 3040
Acquired: 11/11/2010 6:00:45 PM
Printed: 11/15/2010 1:49:57 PM

JJY
11/15/10

Data Summary: {Data Description}



back detector Results

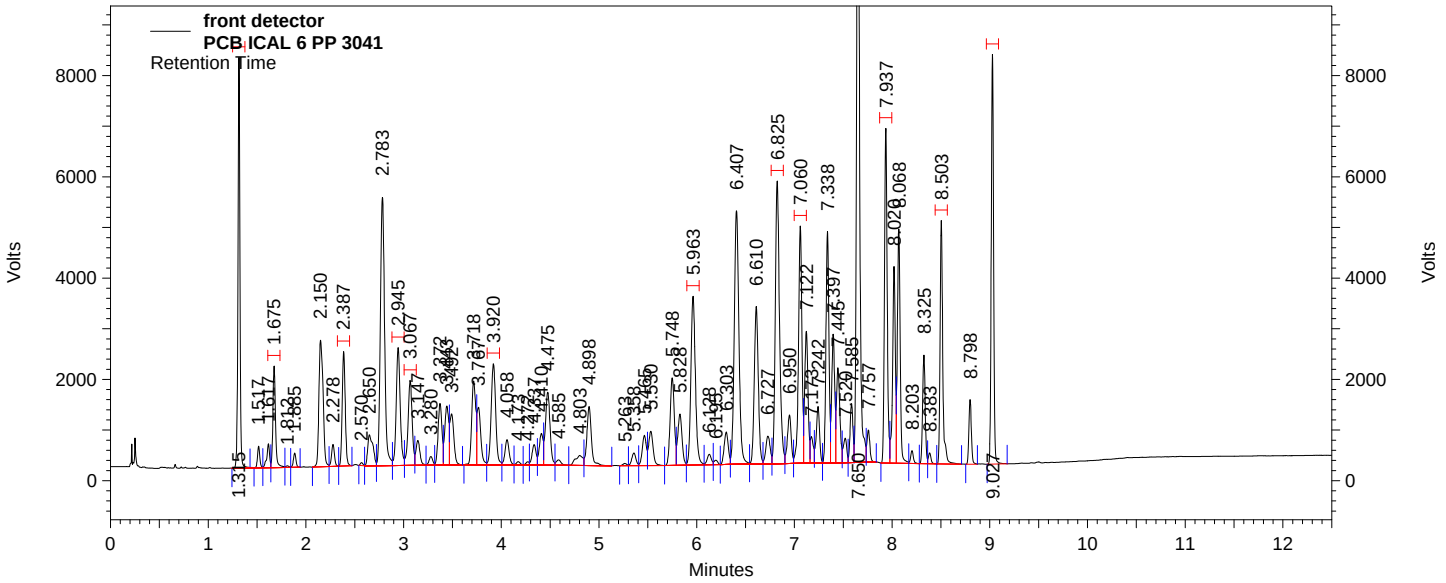
Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.007	38574203	200.000 CAL
Aroclor 1016 #1	1.448	13084053	0.200 CAL
Aroclor 1016 #2	1.858	24757646	0.200 CAL
Aroclor 1016 #3	2.128	12167843	0.200 CAL
Aroclor 1016 #4	2.603	25138760	0.200 CAL
Aroclor 1016 #5	2.750	20965117	0.200 CAL
Aroclor 1260 #1	5.463	35898821	0.200 CAL
Aroclor 1260 #2	5.875	44537294	0.200 CAL
Aroclor 1260 #3	6.022	24443656	0.200 CAL
Aroclor 1260 #4	6.148	25128344	0.200 CAL
Aroclor 1260 #5	7.028	18811261	0.200 CAL
SURRDCBPCB	8.597	42408969	200.000 CAL
Aroclor 1016		96113419	1.000 CAL
Aroclor 1260		148819376	1.000 CAL

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\008.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
User: jjy
Sample ID: PCB ICAL 6 PP 3041
Acquired: 11/11/2010 6:16:25 PM
Printed: 11/15/2010 1:50:05 PM

JJY
11/15/10

Data Summary: {Data Description}



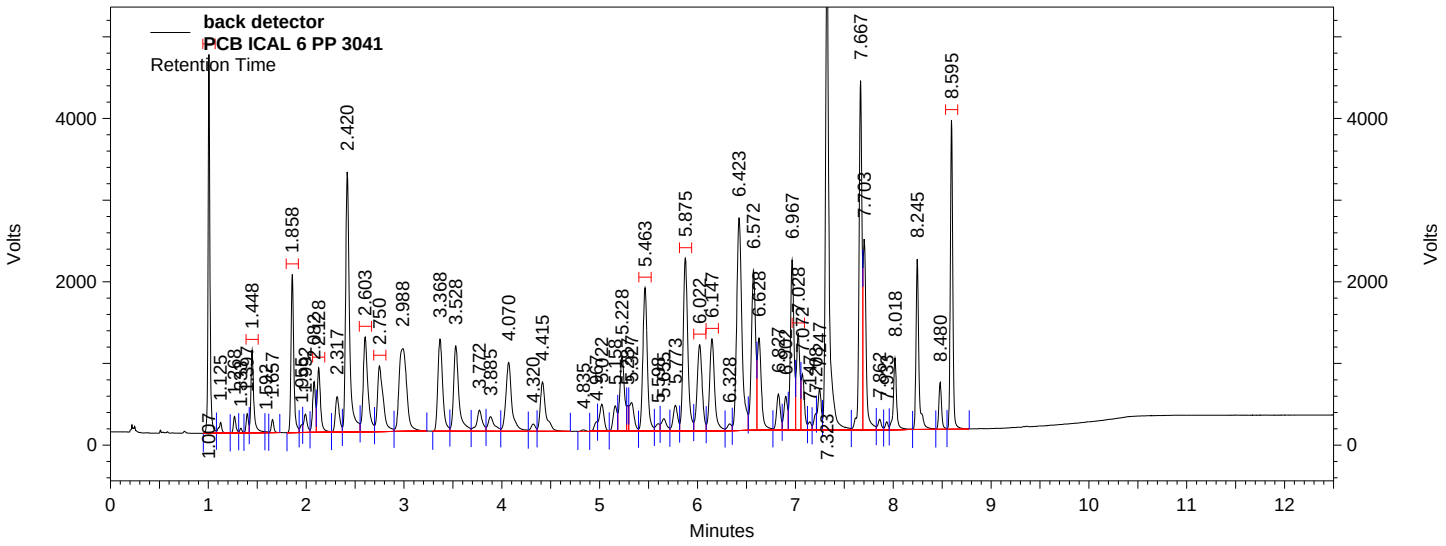
back detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.007	46739931	240.000 CAL
Aroclor 1016 #1	1.448	15656006	0.240 CAL
Aroclor 1016 #2	1.858	29586145	0.240 CAL
Aroclor 1016 #3	2.128	14373578	0.240 CAL
Aroclor 1016 #4	2.603	30087592	0.240 CAL
Aroclor 1016 #5	2.750	25041500	0.240 CAL
Aroclor 1260 #1	5.463	42949519	0.240 CAL
Aroclor 1260 #2	5.875	53262650	0.240 CAL
Aroclor 1260 #3	6.022	29088283	0.240 CAL
Aroclor 1260 #4	6.147	30288948	0.240 CAL
Aroclor 1260 #5	7.028	22549624	0.240 CAL
SURRDCBPCB	8.595	50973300	240.000 CAL
Aroclor 1016		114744821	1.200 CAL
Aroclor 1260		178139024	1.200 CAL

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\008.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
User: jjy
Sample ID: PCB ICAL 6 PP 3041 JJY
Acquired: 11/11/2010 6:16:25 PM 11/15/10
Printed: 11/15/2010 1:50:05 PM

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.007	46739931	240.000 CAL
Aroclor 1016 #1	1.448	15656006	0.240 CAL
Aroclor 1016 #2	1.858	29586145	0.240 CAL
Aroclor 1016 #3	2.128	14373578	0.240 CAL
Aroclor 1016 #4	2.603	30087592	0.240 CAL
Aroclor 1016 #5	2.750	25041500	0.240 CAL
Aroclor 1260 #1	5.463	42949519	0.240 CAL
Aroclor 1260 #2	5.875	53262650	0.240 CAL
Aroclor 1260 #3	6.022	29088283	0.240 CAL
Aroclor 1260 #4	6.147	30288948	0.240 CAL
Aroclor 1260 #5	7.028	22549624	0.240 CAL
SURRDCBPCB	8.595	50973300	240.000 CAL
Aroclor 1016		114744821	1.200 CAL
Aroclor 1260		178139024	1.200 CAL

QC Check Standard Report

Sequence : C:\Instarch\Semi7\Sequence\111110pcbic.seq
User : jjy
Printed : 11/15/2010 1:50:31 PM

File	Sample ID	Acquired
C:\Instarch\Semi7\Data\111110pcbic\010.dat	PCB ICV PP 3047	11/15/2010 1:50:31 PM

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPCB	100.000	91.056	8.944	20.000	Passed
Aroclor 1016 #1	0.100	0.101	1.113	20.000	Passed
Aroclor 1016 #2	0.100	0.102	2.173	20.000	Passed
Aroclor 1016 #3	0.100	0.101	1.270	20.000	Passed
Aroclor 1016 #4	0.100	0.101	0.899	20.000	Passed
Aroclor 1016 #5	0.100	0.101	0.890	20.000	Passed
Aroclor 1260 #1	0.100	0.100	0.360	20.000	Passed
Aroclor 1260 #2	0.100	0.099	0.919	20.000	Passed
Aroclor 1260 #3	0.100	0.100	0.483	20.000	Passed
Aroclor 1260 #4	0.100	0.099	1.224	20.000	Passed
Aroclor 1260 #5	0.100	0.100	0.047	20.000	Passed
SURRDCBPCB	100.000	92.873	7.127	20.000	Passed
Aroclor 1016	0.500	0.506	1.269	20.000	Passed
Aroclor 1260	0.500	0.498	0.462	20.000	Passed

back detector

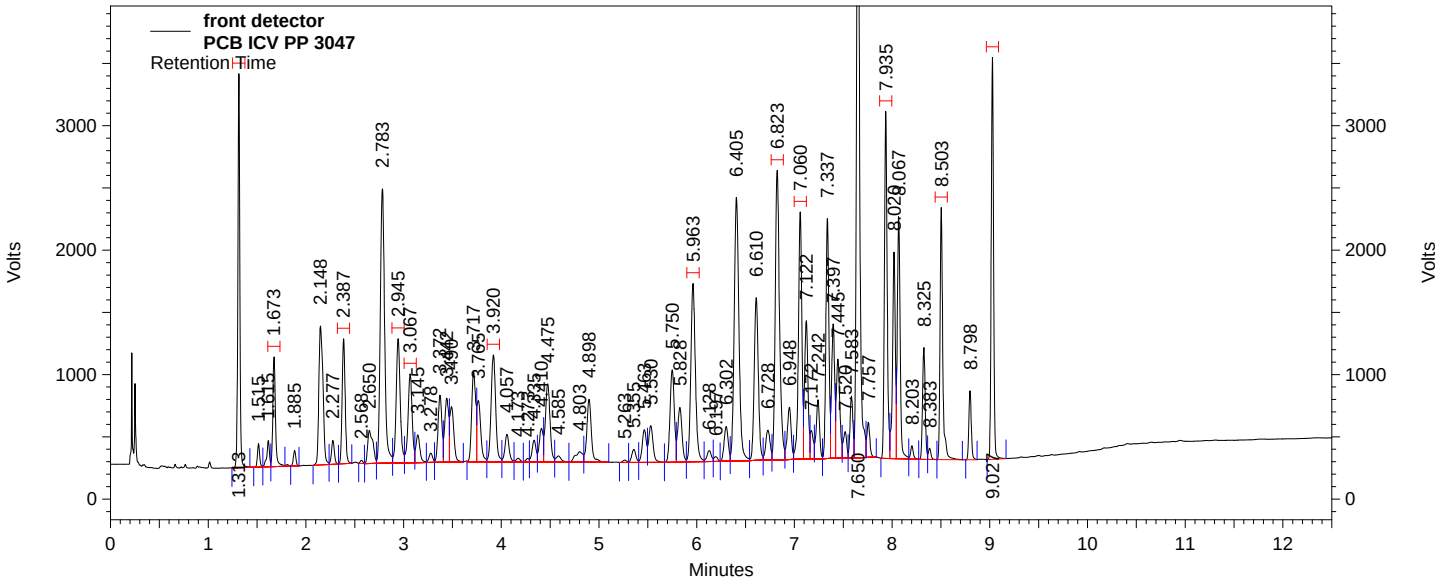
Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPCB	100.000	89.775	10.225	20.000	Passed
Aroclor 1016 #1	0.100	0.103	2.794	20.000	Passed
Aroclor 1016 #2	0.100	0.101	1.187	20.000	Passed
Aroclor 1016 #3	0.100	0.104	3.979	20.000	Passed
Aroclor 1016 #4	0.100	0.102	1.577	20.000	Passed
Aroclor 1016 #5	0.100	0.102	1.613	20.000	Passed
Aroclor 1260 #1	0.100	0.101	0.520	20.000	Passed
Aroclor 1260 #2	0.100	0.100	0.334	20.000	Passed
Aroclor 1260 #3	0.100	0.102	1.910	20.000	Passed
Aroclor 1260 #4	0.100	0.100	0.159	20.000	Passed
Aroclor 1260 #5	0.100	0.101	1.054	20.000	Passed
SURRDCBPCB	100.000	92.877	7.123	20.000	Passed
Aroclor 1016	0.500	0.511	2.230	20.000	Passed
Aroclor 1260	0.500	0.503	0.598	20.000	Passed

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\010.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
User: jjy
Sample ID: PCB ICV PP 3047
Acquired: 11/11/2010 6:47:45 PM
Printed: 11/15/2010 1:50:23 PM

JJY
11/15/10

Data Summary: {Data Description}



back detector Results

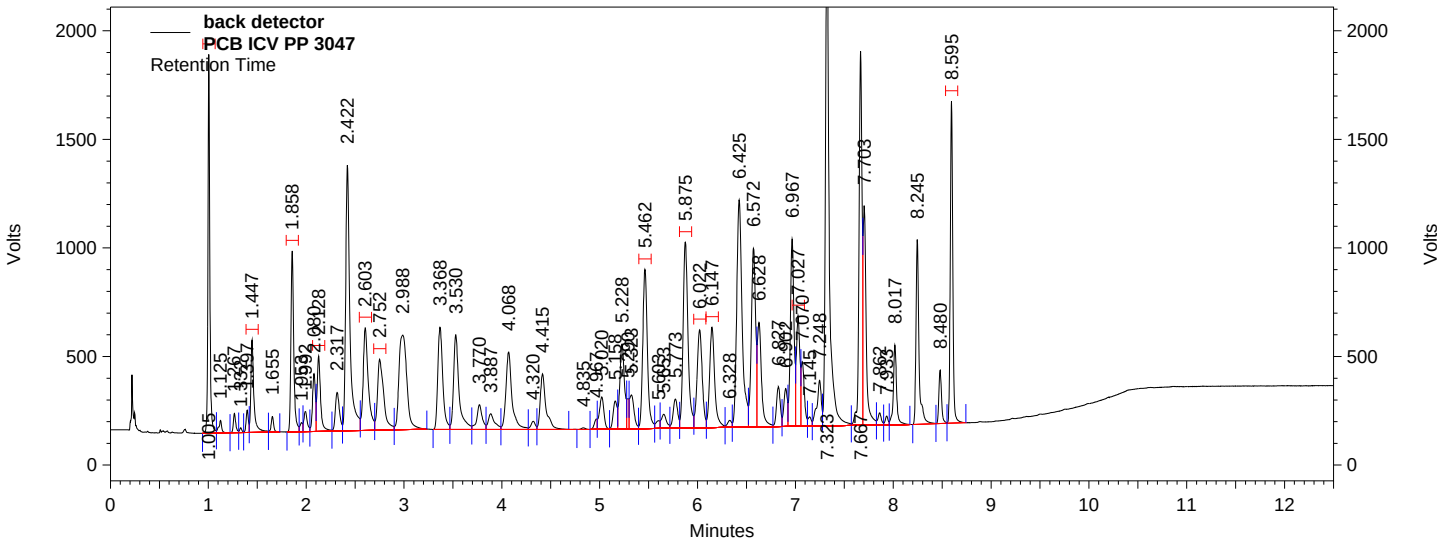
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.005	17738879	89.775
Aroclor 1016 #1	1.447	6948493	0.103
Aroclor 1016 #2	1.858	12960492	0.101
Aroclor 1016 #3	2.128	6553257	0.104
Aroclor 1016 #4	2.603	13221687	0.102
Aroclor 1016 #5	2.752	10972326	0.102
Aroclor 1260 #1	5.462	18582837	0.101
Aroclor 1260 #2	5.875	22762872	0.100
Aroclor 1260 #3	6.022	12816579	0.102
Aroclor 1260 #4	6.147	12781414	0.100
Aroclor 1260 #5	7.027	9790938	0.101
SURRDCBPCB	8.595	20385432	92.877
Aroclor 1016		50656255	0.511
Aroclor 1260		76734640	0.503

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\010.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
User: jjy
Sample ID: PCB ICV PP 3047
Acquired: 11/11/2010 6:47:45 PM
Printed: 11/15/2010 1:50:23 PM

JJY
11/15/10

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.005	17738879	89.775
Aroclor 1016 #1	1.447	6948493	0.103
Aroclor 1016 #2	1.858	12960492	0.101
Aroclor 1016 #3	2.128	6553257	0.104
Aroclor 1016 #4	2.603	13221687	0.102
Aroclor 1016 #5	2.752	10972326	0.102
Aroclor 1260 #1	5.462	18582837	0.101
Aroclor 1260 #2	5.875	22762872	0.100
Aroclor 1260 #3	6.022	12816579	0.102
Aroclor 1260 #4	6.147	12781414	0.100
Aroclor 1260 #5	7.027	9790938	0.101
SURRDCBPCB	8.595	20385432	92.877
Aroclor 1016		50656255	0.511
Aroclor 1260		76734640	0.503

POLYCHLORINATED BIPHENYL CONTINUING AND ENDING STANDARDS DOCUMENTS

QC Check Standard Report

Sequence : C:\Instarch\Semi7\Sequence\112410pcb.seq
User : jjy
Printed : Nov 24,2010 17:06:07

File	Sample ID	Acquired
C:\Instarch\Semi7\Data\112410pcb\003.dat	PCB CCV PP 3039	Nov 24,2010 17:06:07

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPCB	100.000	107.220	7.220	20.000	Passed
Aroclor 1016 #1	0.100	0.111	11.200	20.000	Passed
Aroclor 1016 #2	0.100	0.097	2.762	20.000	Passed
Aroclor 1016 #3	0.100	0.110	9.707	20.000	Passed
Aroclor 1016 #4	0.100	0.110	9.991	20.000	Passed
Aroclor 1016 #5	0.100	0.110	9.948	20.000	Passed
Aroclor 1260 #1	0.100	0.108	7.976	20.000	Passed
Aroclor 1260 #2	0.100	0.109	9.391	20.000	Passed
Aroclor 1260 #3	0.100	0.107	6.657	20.000	Passed
Aroclor 1260 #4	0.100	0.109	9.266	20.000	Passed
Aroclor 1260 #5	0.100	0.099	1.206	20.000	Passed
SURRDCBPCB	100.000	105.843	5.843	20.000	Passed
Aroclor 1016	0.500	0.538	7.617	20.000	Passed
Aroclor 1260	0.500	0.532	6.417	20.000	Passed

back detector

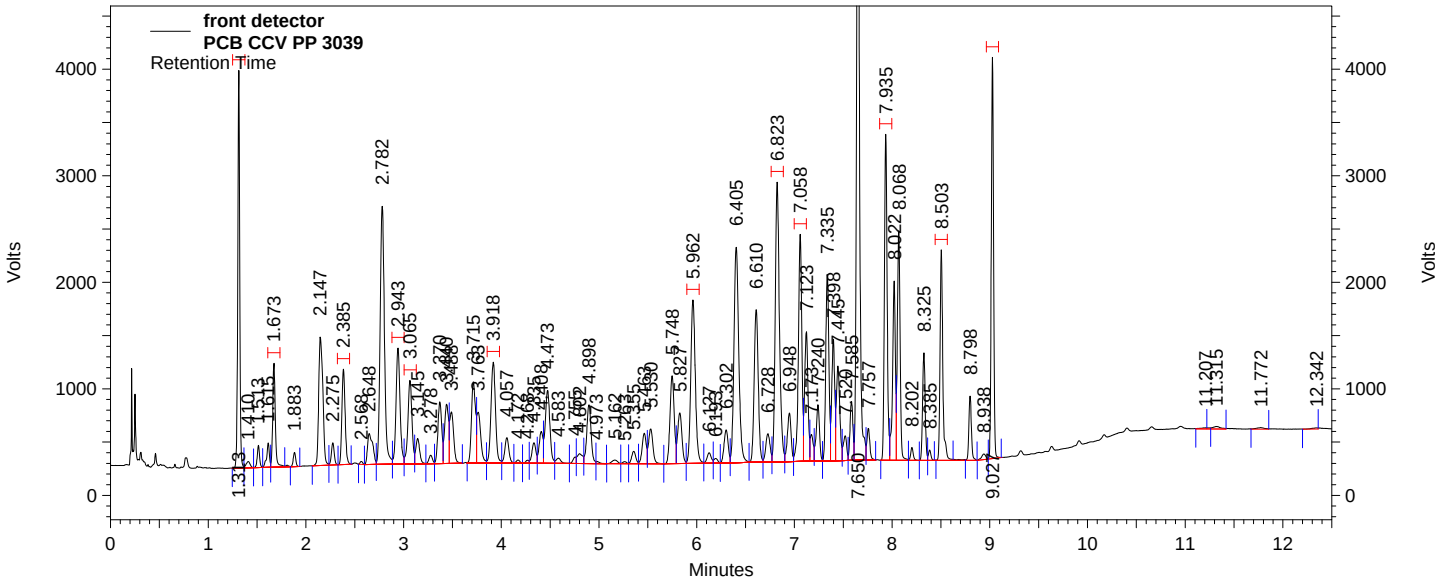
Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPCB	100.000	105.534	5.534	20.000	Passed
Aroclor 1016 #1	0.100	0.112	12.369	20.000	Passed
Aroclor 1016 #2	0.100	0.110	9.844	20.000	Passed
Aroclor 1016 #3	0.100	0.110	9.746	20.000	Passed
Aroclor 1016 #4	0.100	0.109	8.882	20.000	Passed
Aroclor 1016 #5	0.100	0.109	8.649	20.000	Passed
Aroclor 1260 #1	0.100	0.106	6.276	20.000	Passed
Aroclor 1260 #2	0.100	0.108	7.581	20.000	Passed
Aroclor 1260 #3	0.100	0.106	6.454	20.000	Passed
Aroclor 1260 #4	0.100	0.104	3.718	20.000	Passed
Aroclor 1260 #5	0.100	0.105	5.026	20.000	Passed
SURRDCBPCB	100.000	102.478	2.478	20.000	Passed
Aroclor 1016	0.500	0.549	9.898	20.000	Passed
Aroclor 1260	0.500	0.529	5.811	20.000	Passed

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\112410pcb\003.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\112410pcb.met
User: jjy
Sample ID: PCB CCV PP 3039
Acquired: Nov 24,2010 11:01:38
Printed: Nov 24,2010 17:05:58

JJY
11/24/10

Data Summary: {Data Description}



front detector Results

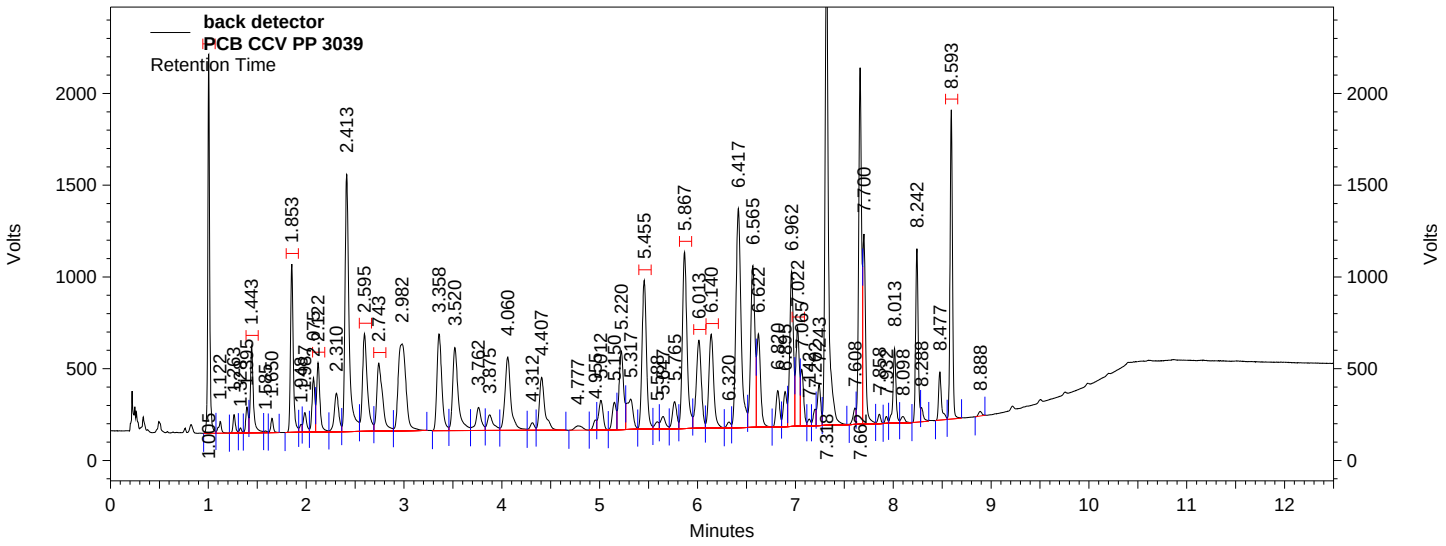
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.313	39941185	107.220
Aroclor 1016 #1	1.673	13663158	0.111
Aroclor 1016 #2	2.385	15988445	0.097
Aroclor 1016 #3	2.943	24280492	0.110
Aroclor 1016 #4	3.065	17477090	0.110
Aroclor 1016 #5	3.918	23132344	0.110
Aroclor 1260 #1	5.962	38226365	0.108
Aroclor 1260 #2	6.823	59572856	0.109
Aroclor 1260 #3	7.058	40220015	0.107
Aroclor 1260 #4	7.935	46006576	0.109
Aroclor 1260 #5	8.503	29465453	0.099
SURRDCBPCB	9.027	47144626	105.843
Aroclor 1016		94541529	0.538
Aroclor 1260		213491265	0.532

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\112410pcb\003.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\112410pcb.met
User: jjy
Sample ID: PCB CCV PP 3039
Acquired: Nov 24,2010 11:01:38
Printed: Nov 24,2010 17:05:58

JJY
11/24/10

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.005	20763785	105.534
Aroclor 1016 #1	1.443	7563168	0.112
Aroclor 1016 #2	1.853	14007158	0.110
Aroclor 1016 #3	2.122	6891812	0.110
Aroclor 1016 #4	2.595	14119422	0.109
Aroclor 1016 #5	2.743	11694806	0.109
Aroclor 1260 #1	5.455	19595466	0.106
Aroclor 1260 #2	5.867	24494533	0.108
Aroclor 1260 #3	6.013	13359363	0.106
Aroclor 1260 #4	6.140	13266212	0.104
Aroclor 1260 #5	7.022	10158312	0.105
SURRDCBPCB	8.593	22388538	102.478
Aroclor 1016		54276366	0.549
Aroclor 1260		80873886	0.529

QC Check Standard Report

Sequence : C:\Instarch\Semi7\Sequence\112410pcb.seq
User : jjy
Printed : Nov 24,2010 17:08:23

File	Sample ID	Acquired
C:\Instarch\Semi7\Data\112410pcb\017.dat	PCB CCV PP 3039	Nov 24,2010 17:08:23

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPCB	100.000	108.961	8.961	20.000	Passed
Aroclor 1016 #1	0.100	0.111	10.576	20.000	Passed
Aroclor 1016 #2	0.100	0.111	10.581	20.000	Passed
Aroclor 1016 #3	0.100	0.111	10.553	20.000	Passed
Aroclor 1016 #4	0.100	0.109	9.232	20.000	Passed
Aroclor 1016 #5	0.100	0.110	9.982	20.000	Passed
Aroclor 1260 #1	0.100	0.110	9.835	20.000	Passed
Aroclor 1260 #2	0.100	0.109	9.033	20.000	Passed
Aroclor 1260 #3	0.100	0.109	9.264	20.000	Passed
Aroclor 1260 #4	0.100	0.110	9.674	20.000	Passed
Aroclor 1260 #5	0.100	0.108	7.934	20.000	Passed
SURRDCBPCB	100.000	107.507	7.507	20.000	Passed
Aroclor 1016	0.500	0.551	10.185	20.000	Passed
Aroclor 1260	0.500	0.546	9.148	20.000	Passed

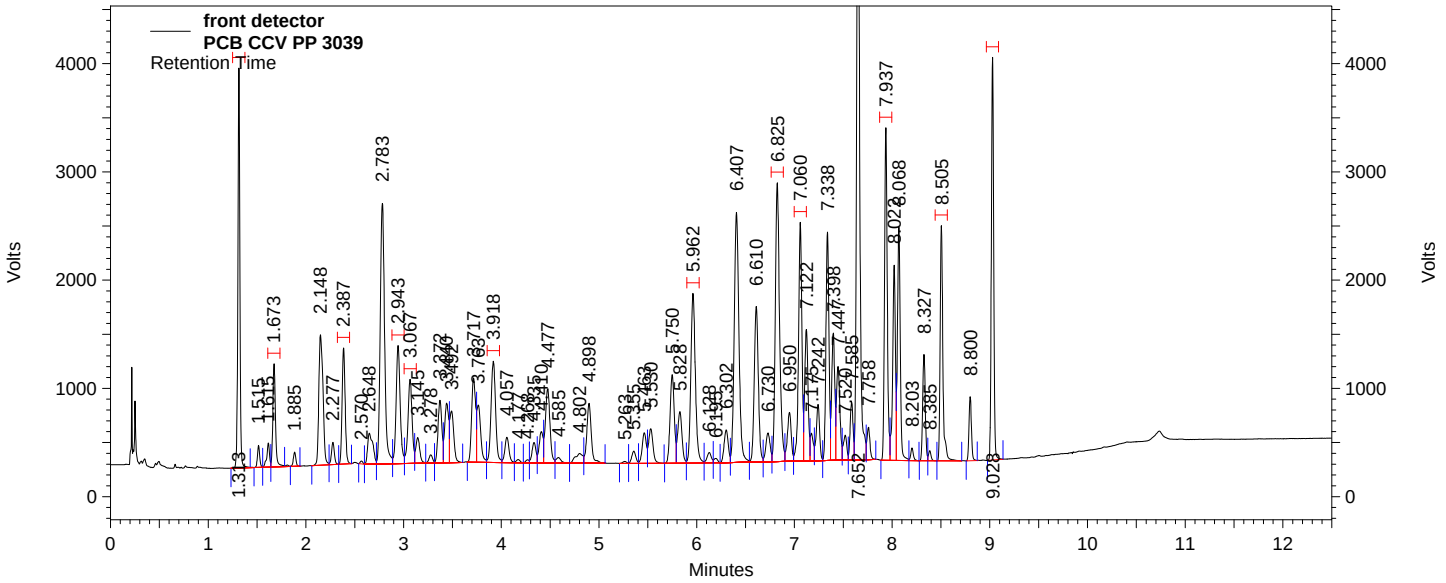
back detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPCB	100.000	105.699	5.699	20.000	Passed
Aroclor 1016 #1	0.100	0.111	11.390	20.000	Passed
Aroclor 1016 #2	0.100	0.109	9.300	20.000	Passed
Aroclor 1016 #3	0.100	0.111	11.186	20.000	Passed
Aroclor 1016 #4	0.100	0.110	10.209	20.000	Passed
Aroclor 1016 #5	0.100	0.110	9.652	20.000	Passed
Aroclor 1260 #1	0.100	0.108	7.640	20.000	Passed
Aroclor 1260 #2	0.100	0.107	7.055	20.000	Passed
Aroclor 1260 #3	0.100	0.109	8.909	20.000	Passed
Aroclor 1260 #4	0.100	0.107	7.200	20.000	Passed
Aroclor 1260 #5	0.100	0.109	8.610	20.000	Passed
SURRDCBPCB	100.000	108.048	8.048	20.000	Passed
Aroclor 1016	0.500	0.552	10.348	20.000	Passed
Aroclor 1260	0.500	0.539	7.883	20.000	Passed

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\112410pcb\017.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\112410pcb.met
User: jjy
Sample ID: PCB CCV PP 3039 JJY
Acquired: Nov 24,2010 16:16:11 11/24/10
Printed: Nov 24,2010 17:08:15

Data Summary: {Data Description}



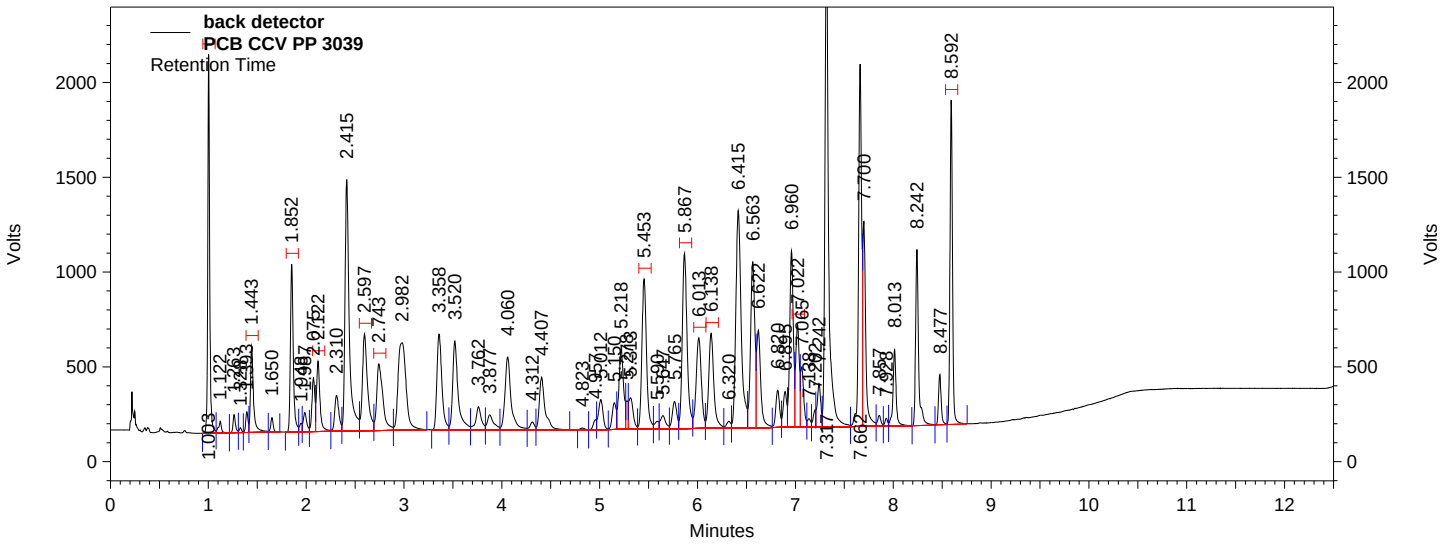
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.313	40567126	108.961
Aroclor 1016 #1	1.673	13591840	0.111
Aroclor 1016 #2	2.387	18035541	0.111
Aroclor 1016 #3	2.943	24458090	0.111
Aroclor 1016 #4	3.067	17361269	0.109
Aroclor 1016 #5	3.918	23139264	0.110
Aroclor 1260 #1	5.962	38850204	0.110
Aroclor 1260 #2	6.825	59385297	0.109
Aroclor 1260 #3	7.060	41159313	0.109
Aroclor 1260 #4	7.937	46172183	0.110
Aroclor 1260 #5	8.505	32070856	0.108
SURRDCBPCB	9.028	47856976	107.507
Aroclor 1016		96586004	0.551
Aroclor 1260		217637853	0.546

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\112410pcb\017.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\112410pcb.met
User: jjy
Sample ID: PCB CCV PP 3039 JJY 11/24/10
Acquired: Nov 24,2010 16:16:11
Printed: Nov 24,2010 17:08:15

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.003	20795399	105.699
Aroclor 1016 #1	1.443	7500334	0.111
Aroclor 1016 #2	1.852	13941309	0.109
Aroclor 1016 #3	2.122	6976352	0.111
Aroclor 1016 #4	2.597	14282565	0.110
Aroclor 1016 #5	2.743	11797778	0.110
Aroclor 1260 #1	5.453	19835490	0.108
Aroclor 1260 #2	5.867	24379525	0.107
Aroclor 1260 #3	6.013	13652559	0.109
Aroclor 1260 #4	6.138	13701763	0.107
Aroclor 1260 #5	7.022	10489747	0.109
SURRDCBPCB	8.592	23550627	108.048
Aroclor 1016		54498338	0.552
Aroclor 1260		82059084	0.539

QC Check Standard Report

Sequence : C:\Instarch\Semi7\Sequence\120810pcb.seq
User : jjy
Printed : Dec 08,2010 15:42:48

File	Sample ID	Acquired
C:\Instarch\Semi7\Data\120810pcb\022.dat	PCB CCV PP 3149	Dec 08,2010 15:42:48

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPCB	100.000	107.137	7.137	20.000	Passed
Aroclor 1016 #1	0.100	0.117	17.315	20.000	Passed
Aroclor 1016 #2	0.100	0.111	10.577	20.000	Passed
Aroclor 1016 #3	0.100	0.115	15.496	20.000	Passed
Aroclor 1016 #4	0.100	0.116	15.790	20.000	Passed
Aroclor 1016 #5	0.100	0.116	15.669	20.000	Passed
Aroclor 1260 #1	0.100	0.113	13.478	20.000	Passed
Aroclor 1260 #2	0.100	0.113	12.988	20.000	Passed
Aroclor 1260 #3	0.100	0.114	13.509	20.000	Passed
Aroclor 1260 #4	0.100	0.114	13.869	20.000	Passed
Aroclor 1260 #5	0.100	0.111	10.915	20.000	Passed
SURRDCBPCB	100.000	106.372	6.372	20.000	Passed
Aroclor 1016	0.500	0.575	14.969	20.000	Passed
Aroclor 1260	0.500	0.565	12.952	20.000	Passed

back detector

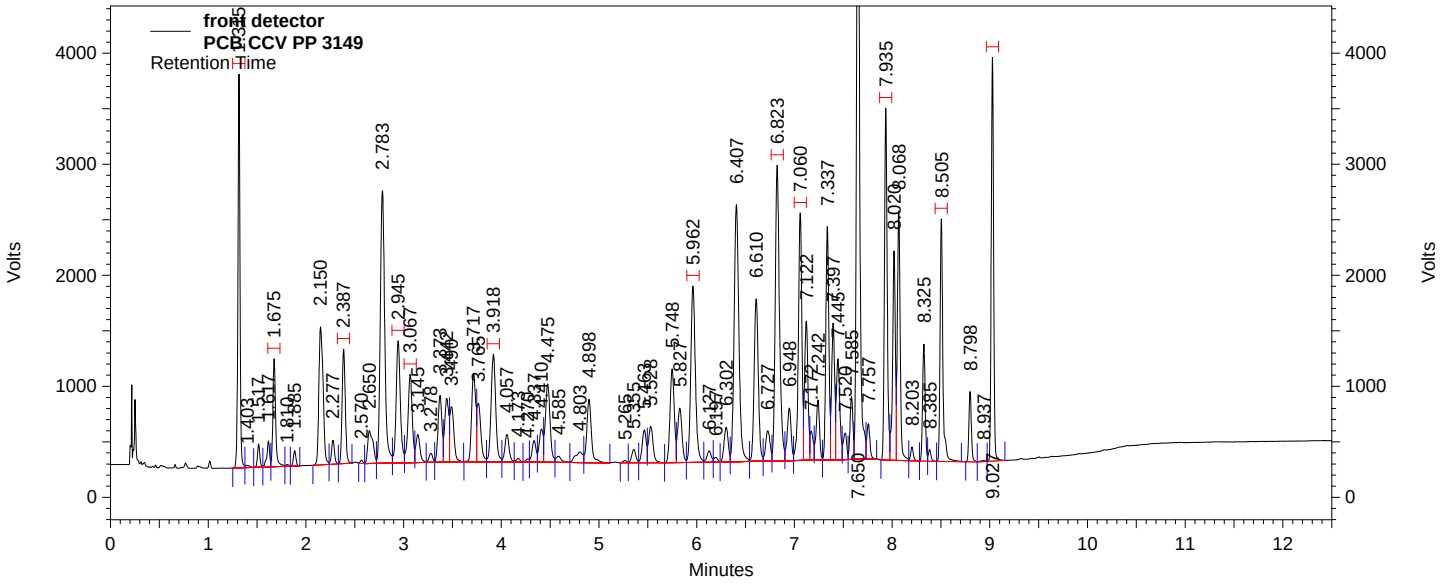
Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPCB	100.000	103.393	3.393	20.000	Passed
Aroclor 1016 #1	0.100	0.115	15.052	20.000	Passed
Aroclor 1016 #2	0.100	0.112	12.347	20.000	Passed
Aroclor 1016 #3	0.100	0.115	15.145	20.000	Passed
Aroclor 1016 #4	0.100	0.113	12.981	20.000	Passed
Aroclor 1016 #5	0.100	0.113	13.177	20.000	Passed
Aroclor 1260 #1	0.100	0.111	10.694	20.000	Passed
Aroclor 1260 #2	0.100	0.110	9.546	20.000	Passed
Aroclor 1260 #3	0.100	0.113	12.984	20.000	Passed
Aroclor 1260 #4	0.100	0.111	10.887	20.000	Passed
Aroclor 1260 #5	0.100	0.114	14.119	20.000	Passed
SURRDCBPCB	100.000	104.007	4.007	20.000	Passed
Aroclor 1016	0.500	0.569	13.740	20.000	Passed
Aroclor 1260	0.500	0.558	11.646	20.000	Passed

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\120810pcb\022.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\120810pcb.met
User: jjy
Sample ID: PCB CCV PP 3149
Acquired: Dec 08,2010 14:42:15
Printed: Dec 08,2010 15:42:41

JJY
12/08/10

Data Summary: {Data Description}



front detector Results

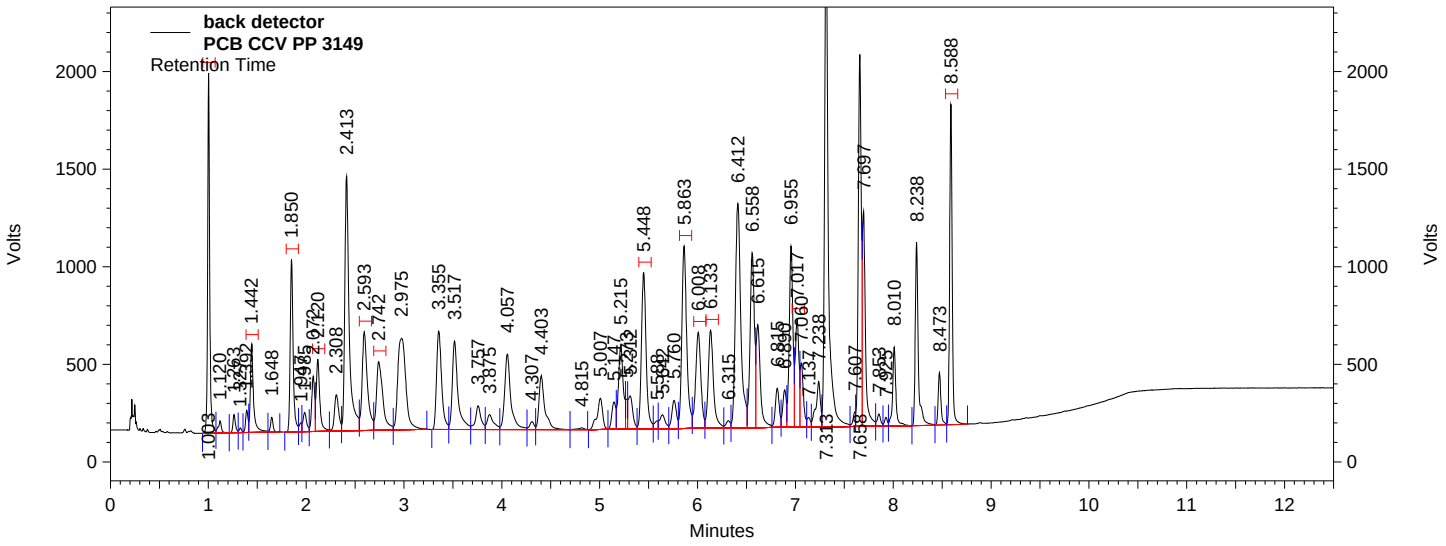
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.315	39911406	107.137
Aroclor 1016 #1	1.675	14362851	0.117
Aroclor 1016 #2	2.387	18034998	0.111
Aroclor 1016 #3	2.945	25495516	0.115
Aroclor 1016 #4	3.067	18362092	0.116
Aroclor 1016 #5	3.918	24279714	0.116
Aroclor 1260 #1	5.962	40073492	0.113
Aroclor 1260 #2	6.823	61457438	0.113
Aroclor 1260 #3	7.060	42688433	0.114
Aroclor 1260 #4	7.935	47875214	0.114
Aroclor 1260 #5	8.505	32920524	0.111
SURRDCBPCB	9.027	47370993	106.372
Aroclor 1016		100535171	0.575
Aroclor 1260		225015101	0.565

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\120810pcb\022.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\120810pcb.met
User: jjy
Sample ID: PCB CCV PP 3149
Acquired: Dec 08,2010 14:42:15
Printed: Dec 08,2010 15:42:41

JJY
12/08/10

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.003	20352918	103.393
Aroclor 1016 #1	1.442	7735399	0.115
Aroclor 1016 #2	1.850	14309694	0.112
Aroclor 1016 #3	2.120	7208708	0.115
Aroclor 1016 #4	2.593	14623143	0.113
Aroclor 1016 #5	2.742	12159691	0.113
Aroclor 1260 #1	5.448	20372757	0.111
Aroclor 1260 #2	5.863	24924563	0.110
Aroclor 1260 #3	6.008	14139382	0.113
Aroclor 1260 #4	6.133	14162750	0.111
Aroclor 1260 #5	7.017	10999316	0.114
SURRDCBPCB	8.588	22707457	104.007
Aroclor 1016		56036635	0.569
Aroclor 1260		84598768	0.558

QC Check Standard Report

Sequence : C:\Instarch\Semi7\Sequence\120810pcb.seq
User : jjy
Printed : Dec 09,2010 09:00:57

File	Sample ID	Acquired
C:\Instarch\Semi7\Data\120810pcb\031.dat	PCB CCV PP 3149	Dec 09,2010 09:00:57

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPCB	100.000	108.366	8.366	20.000	Passed
Aroclor 1016 #1	0.100	0.118	17.782	20.000	Passed
Aroclor 1016 #2	0.100	0.115	15.262	20.000	Passed
Aroclor 1016 #3	0.100	0.116	16.268	20.000	Passed
Aroclor 1016 #4	0.100	0.116	15.974	20.000	Passed
Aroclor 1016 #5	0.100	0.116	16.147	20.000	Passed
Aroclor 1260 #1	0.100	0.115	14.582	20.000	Passed
Aroclor 1260 #2	0.100	0.114	14.182	20.000	Passed
Aroclor 1260 #3	0.100	0.114	14.073	20.000	Passed
Aroclor 1260 #4	0.100	0.114	14.291	20.000	Passed
Aroclor 1260 #5	0.100	0.113	12.844	20.000	Passed
SURRDCBPCB	100.000	105.239	5.239	20.000	Passed
Aroclor 1016	0.500	0.581	16.287	20.000	Passed
Aroclor 1260	0.500	0.570	13.994	20.000	Passed

back detector

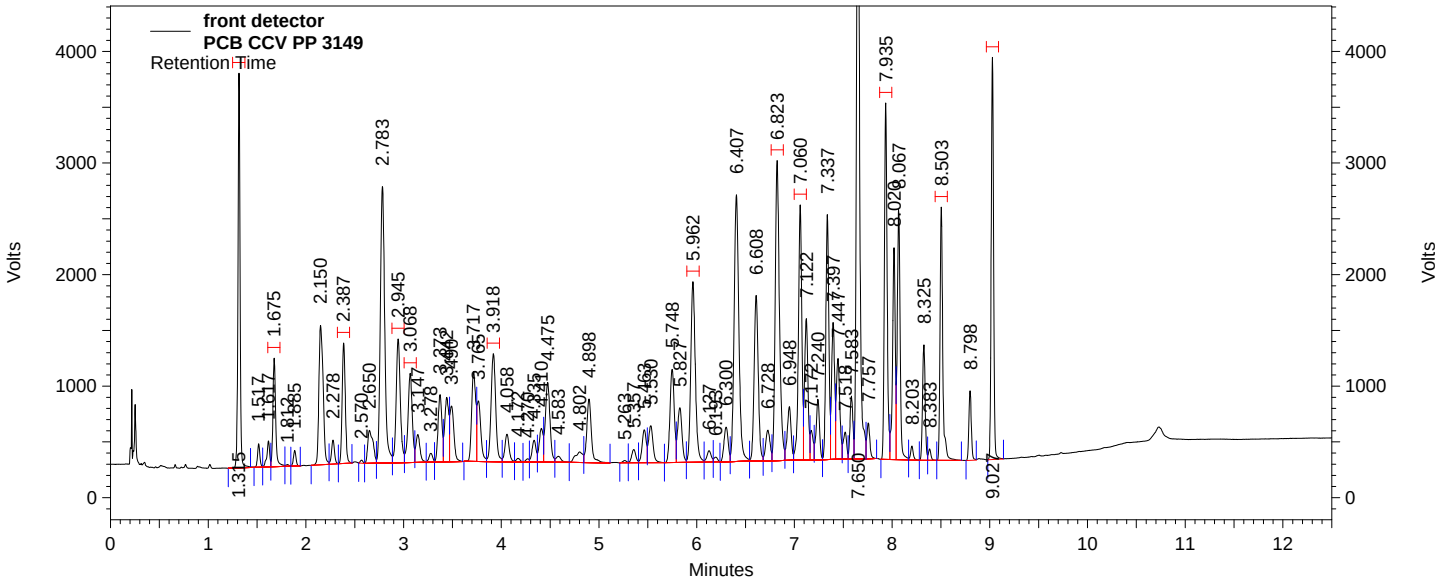
Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPCB	100.000	103.199	3.199	20.000	Passed
Aroclor 1016 #1	0.100	0.115	14.975	20.000	Passed
Aroclor 1016 #2	0.100	0.113	12.657	20.000	Passed
Aroclor 1016 #3	0.100	0.115	15.106	20.000	Passed
Aroclor 1016 #4	0.100	0.113	13.471	20.000	Passed
Aroclor 1016 #5	0.100	0.113	13.435	20.000	Passed
Aroclor 1260 #1	0.100	0.111	11.496	20.000	Passed
Aroclor 1260 #2	0.100	0.111	10.558	20.000	Passed
Aroclor 1260 #3	0.100	0.113	13.217	20.000	Passed
Aroclor 1260 #4	0.100	0.111	11.324	20.000	Passed
Aroclor 1260 #5	0.100	0.115	15.341	20.000	Passed
SURRDCBPCB	100.000	105.543	5.543	20.000	Passed
Aroclor 1016	0.500	0.570	13.929	20.000	Passed
Aroclor 1260	0.500	0.562	12.387	20.000	Passed

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\120810pcb\031.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\120810pcb.met
User: jjy
Sample ID: PCB CCV PP 3149
Acquired: Dec 08,2010 17:29:44
Printed: Dec 09,2010 09:00:50

JJY
12/09/10

Data Summary: {Data Description}



front detector Results

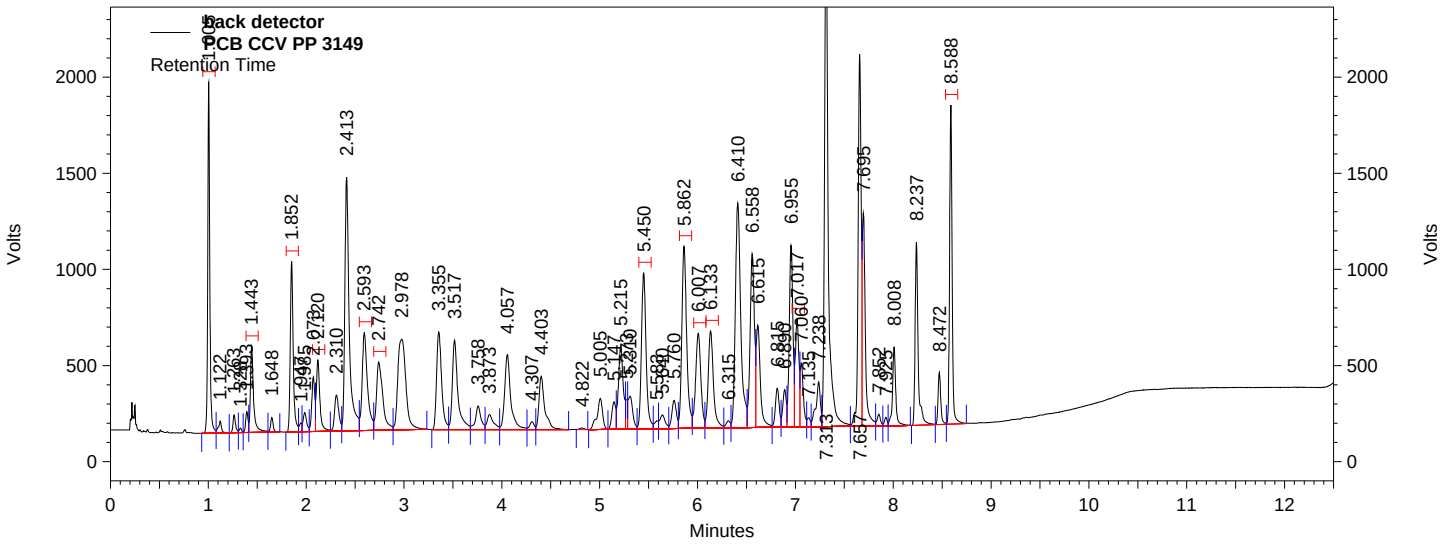
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.315	40353049	108.366
Aroclor 1016 #1	1.675	14416266	0.118
Aroclor 1016 #2	2.387	18753754	0.115
Aroclor 1016 #3	2.945	25657619	0.116
Aroclor 1016 #4	3.068	18390122	0.116
Aroclor 1016 #5	3.918	24375722	0.116
Aroclor 1260 #1	5.962	40444095	0.115
Aroclor 1260 #2	6.823	62083325	0.114
Aroclor 1260 #3	7.060	42891633	0.114
Aroclor 1260 #4	7.935	48046557	0.114
Aroclor 1260 #5	8.503	33470480	0.113
SURRDCBPCB	9.027	46885918	105.239
Aroclor 1016		101593483	0.581
Aroclor 1260		226936090	0.570

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\120810pcb\031.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\120810pcb.met
User: jjy
Sample ID: PCB CCV PP 3149
Acquired: Dec 08,2010 17:29:44
Printed: Dec 09,2010 09:00:50

JJY
12/09/10

Data Summary: {Data Description}



back detector Results

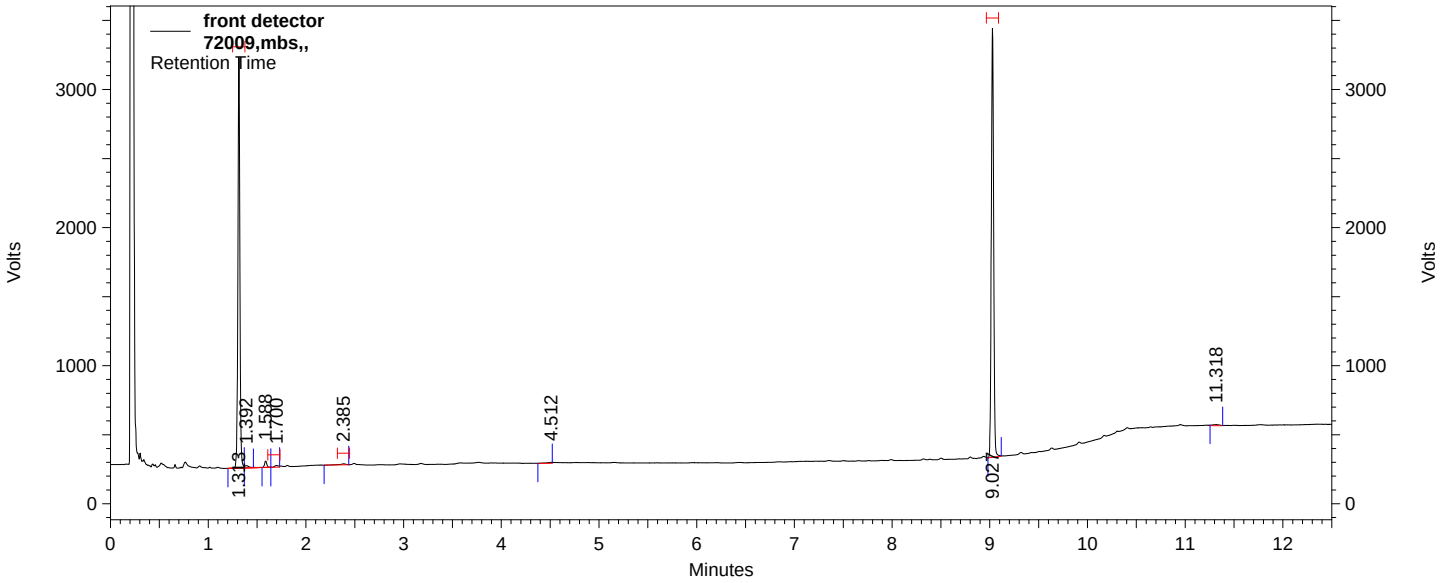
Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.005	20315688	103.199
Aroclor 1016 #1	1.443	7730466	0.115
Aroclor 1016 #2	1.852	14347198	0.113
Aroclor 1016 #3	2.120	7206474	0.115
Aroclor 1016 #4	2.593	14683339	0.113
Aroclor 1016 #5	2.742	12186127	0.113
Aroclor 1260 #1	5.450	20513778	0.111
Aroclor 1260 #2	5.862	25145994	0.111
Aroclor 1260 #3	6.007	14167195	0.113
Aroclor 1260 #4	6.133	14217411	0.111
Aroclor 1260 #5	7.017	11112294	0.115
SURRDCBPCB	8.588	23027847	105.543
Aroclor 1016		56153604	0.570
Aroclor 1260		85156672	0.562

POLYCHLORINATED BIPHENYL QUALITY CONTROL DOCUMENTS

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\112410pcb\005.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\112410pcb.met
User: jjy
Sample ID: 72009,mbs,, JJY
Acquired: Nov 24,2010 11:32:58 11/24/10
Printed: Nov 24,2010 17:06:23

Data Summary: {Data Description}



front detector Results

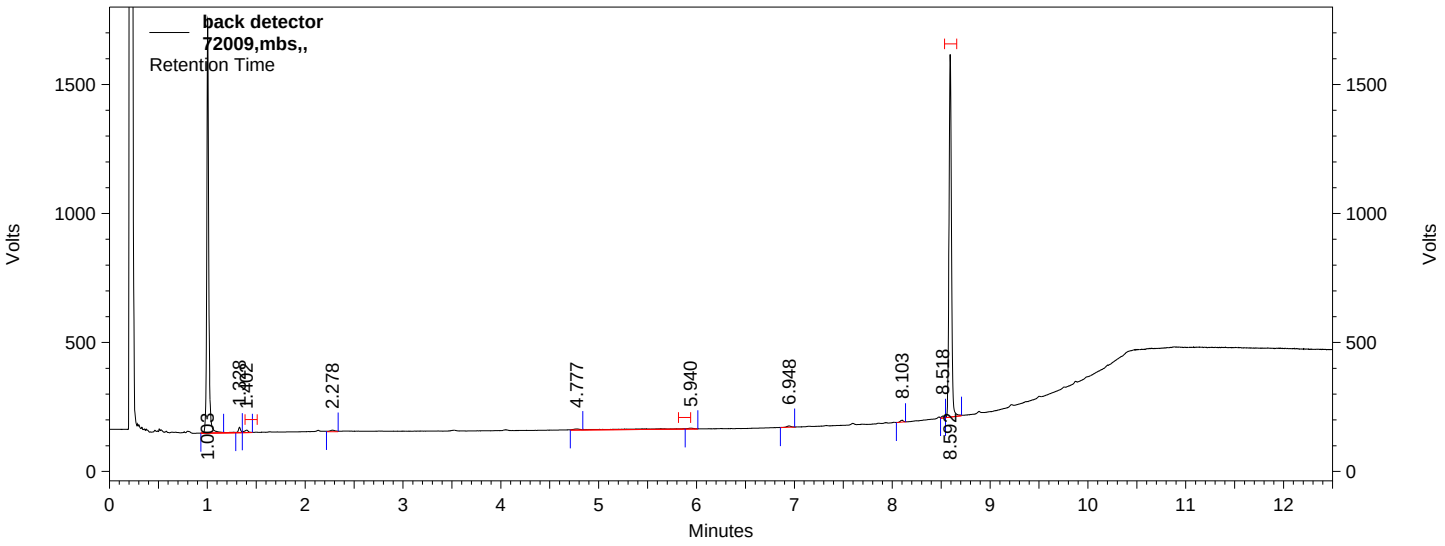
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.313	32116511	85.447
Aroclor 1016 #1	1.700	253495	0.000
Aroclor 1016 #2	2.385	289235	0.000
Aroclor 1016 #3			0.000 BDL
Aroclor 1016 #4			0.000 BDL
Aroclor 1016 #5			0.000 BDL
Aroclor 1260 #1			0.000 BDL
Aroclor 1260 #2			0.000 BDL
Aroclor 1260 #3			0.000 BDL
Aroclor 1260 #4			0.000 BDL
Aroclor 1260 #5			0.000 BDL
SURRDCBPCB	9.027	39912959	88.954
Aroclor 1016		542730	0.000
Aroclor 1260		0	0.000

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\112410pcb\005.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\112410pcb.met
User: jjy
Sample ID: 72009,mbs,,
Acquired: Nov 24,2010 11:32:58
Printed: Nov 24,2010 17:06:23

JJY
11/24/10

Data Summary: {Data Description}



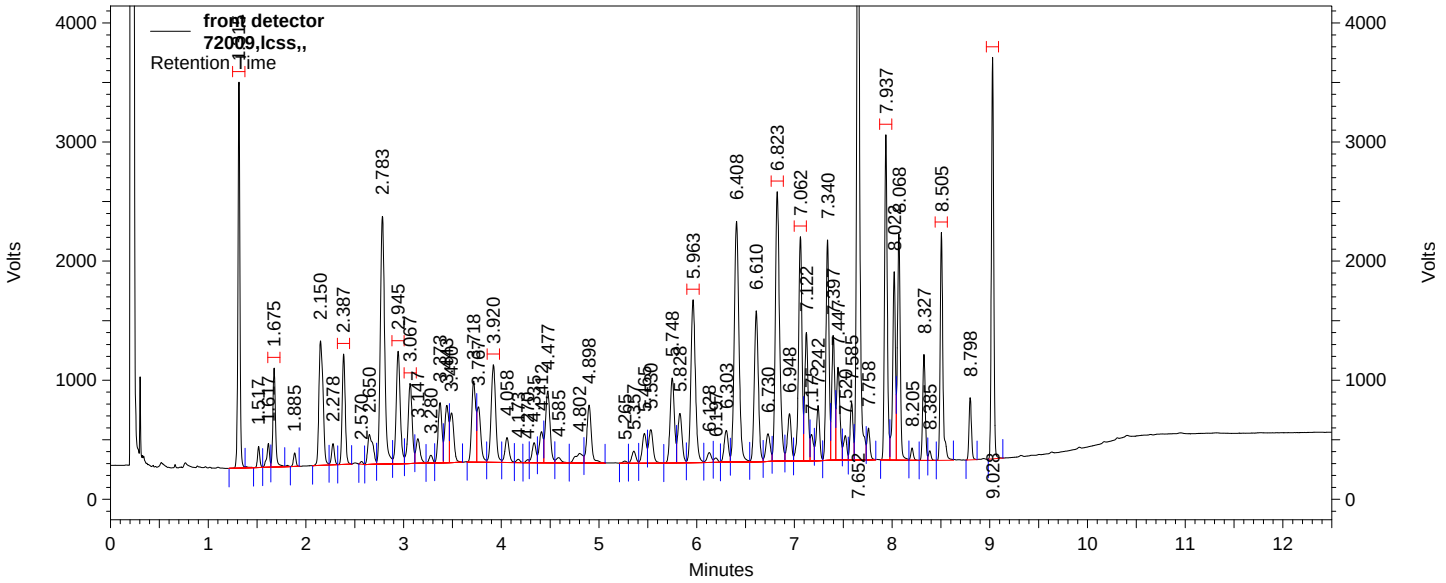
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.003	16779233	84.775
Aroclor 1016 #1	1.402	208646	0.000
Aroclor 1016 #2			0.000 BDL
Aroclor 1016 #3			0.000 BDL
Aroclor 1016 #4			0.000 BDL
Aroclor 1016 #5			0.000 BDL
Aroclor 1260 #1			0.000 BDL
Aroclor 1260 #2	5.940	131139	0.000
Aroclor 1260 #3			0.000 BDL
Aroclor 1260 #4			0.000 BDL
Aroclor 1260 #5			0.000 BDL
SURRDCBPCB	8.592	18951010	86.002
Aroclor 1016		208646	0.000
Aroclor 1260		131139	0.000

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\112410pcb\006.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\112410pcb.met
User: jjy
Sample ID: 72009,lcss,,
Acquired: Nov 24,2010 11:48:38 JJY
Printed: Nov 24,2010 17:06:32 11/24/10

Data Summary: {Data Description}



front detector Results

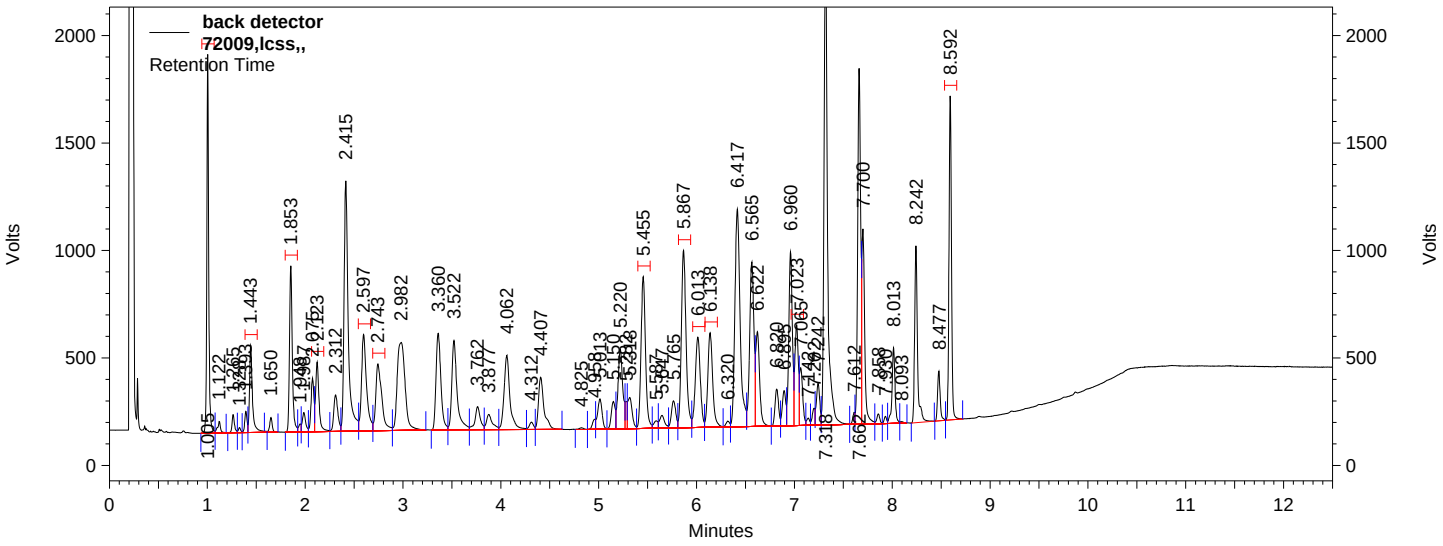
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.315	34958921	93.356
Aroclor 1016 #1	1.675	11711257	0.094
Aroclor 1016 #2	2.387	15593075	0.095
Aroclor 1016 #3	2.945	21071886	0.094
Aroclor 1016 #4	3.067	15020885	0.094
Aroclor 1016 #5	3.920	20086597	0.095
Aroclor 1260 #1	5.963	33859948	0.095
Aroclor 1260 #2	6.823	52036990	0.095
Aroclor 1260 #3	7.062	36044390	0.095
Aroclor 1260 #4	7.937	40641997	0.096
Aroclor 1260 #5	8.505	27752692	0.093
SURRDCBPCB	9.028	42928425	95.996
Aroclor 1016		83483700	0.472
Aroclor 1260		190336017	0.474

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\112410pcb\006.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\112410pcb.met
User: jjy
Sample ID: 72009,lcss,,
Acquired: Nov 24,2010 11:48:38
Printed: Nov 24,2010 17:06:32

JJY
11/24/10

Data Summary: {Data Description}



back detector Results

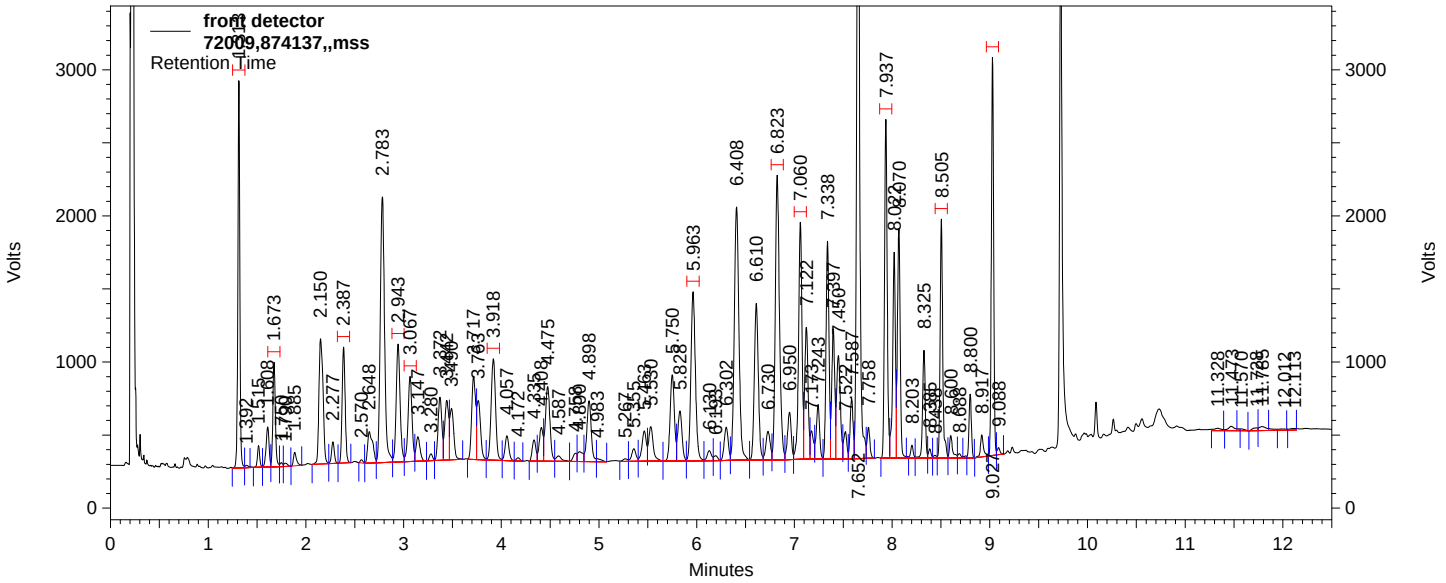
Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.005	17951692	90.884
Aroclor 1016 #1	1.443	6447686	0.095
Aroclor 1016 #2	1.853	11993468	0.093
Aroclor 1016 #3	2.123	6023030	0.095
Aroclor 1016 #4	2.597	12252335	0.094
Aroclor 1016 #5	2.743	10134043	0.093
Aroclor 1260 #1	5.455	17134083	0.092
Aroclor 1260 #2	5.867	21154720	0.092
Aroclor 1260 #3	6.013	11649170	0.092
Aroclor 1260 #4	6.138	11529700	0.090
Aroclor 1260 #5	7.023	8752052	0.090
SURRDCBPCB	8.592	20343500	92.676
Aroclor 1016		46850562	0.470
Aroclor 1260		70219725	0.456

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\112410pcb\009.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\112410pcb.met
User: jjy
Sample ID: 72009,874137,,mss
Acquired: Nov 24,2010 14:10:43
Printed: Nov 24,2010 17:06:58

JJY
11/24/10

Data Summary: {Data Description}



front detector Results

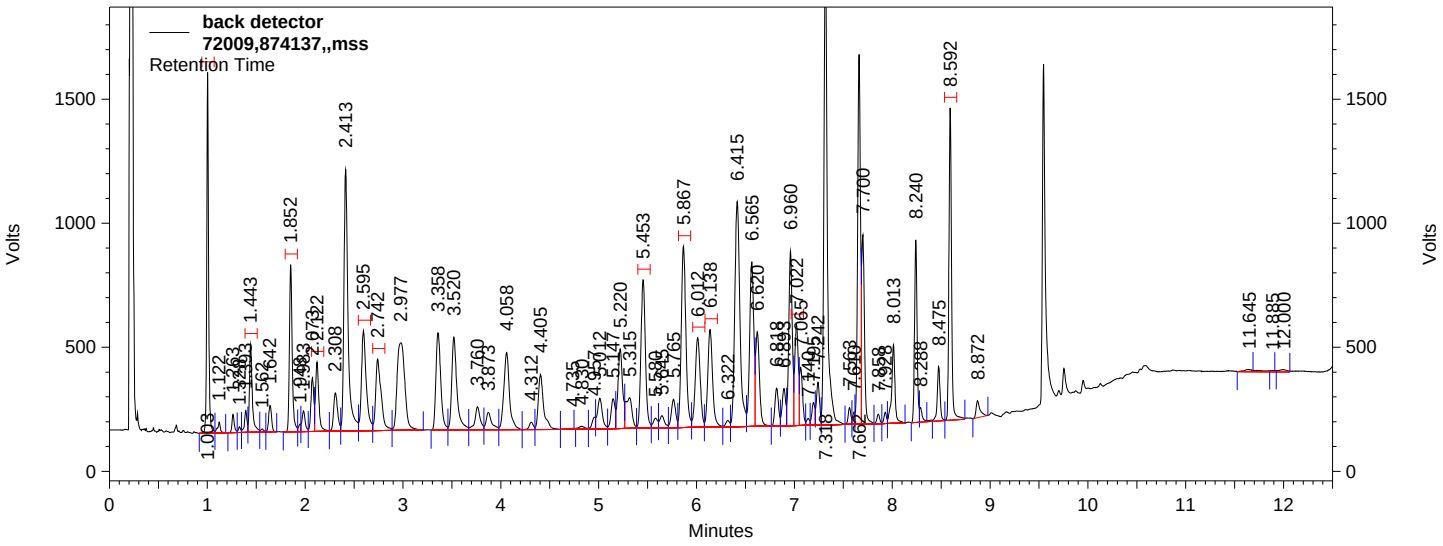
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.313	28588643	75.631
Aroclor 1016 #1	1.673	9660831	0.076
Aroclor 1016 #2	2.387	13221758	0.079
Aroclor 1016 #3	2.943	17366063	0.077
Aroclor 1016 #4	3.067	12501152	0.077
Aroclor 1016 #5	3.918	16614388	0.077
Aroclor 1260 #1	5.963	28279242	0.078
Aroclor 1260 #2	6.823	44120286	0.080
Aroclor 1260 #3	7.060	30606799	0.080
Aroclor 1260 #4	7.937	34151421	0.080
Aroclor 1260 #5	8.505	22832888	0.076
SURRDCBPCB	9.027	34150799	75.497
Aroclor 1016		69364192	0.387
Aroclor 1260		159990636	0.394

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\112410pcb\009.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\112410pcb.met
User: jjy
Sample ID: 72009,874137,,mss
Acquired: Nov 24,2010 14:10:43
Printed: Nov 24,2010 17:06:58

JJY
11/24/10

Data Summary: {Data Description}



back detector Results

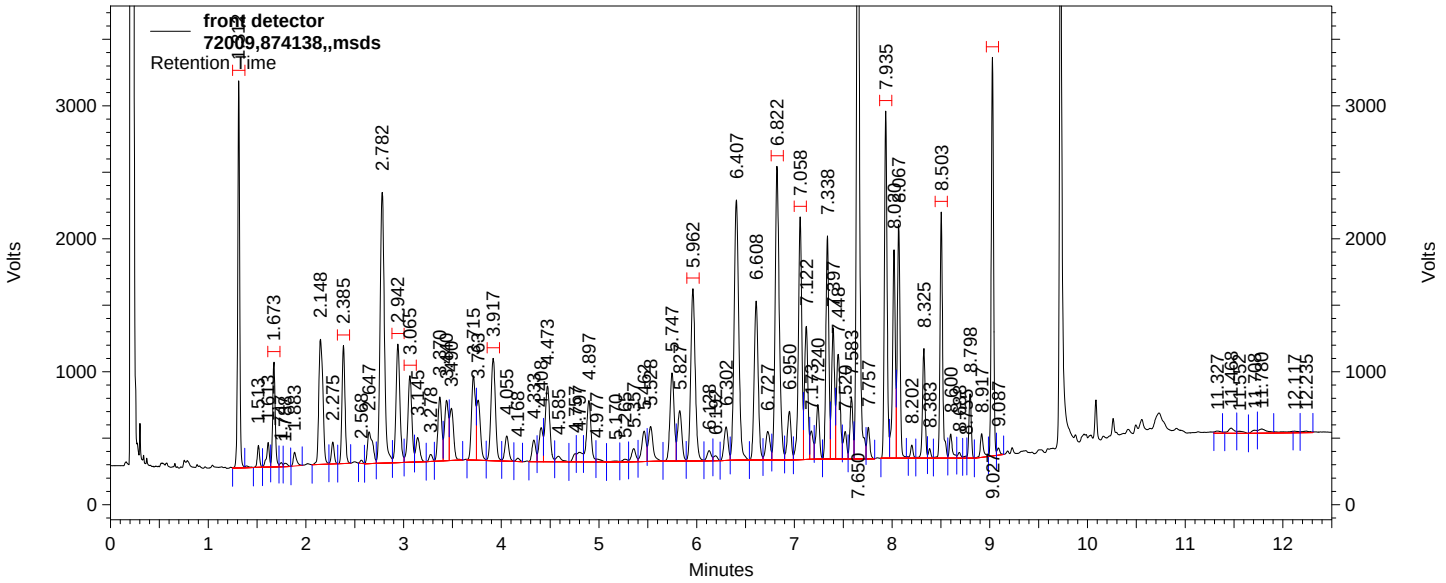
Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.003	14580404	73.320
Aroclor 1016 #1	1.443	5457305	0.080
Aroclor 1016 #2	1.852	10387352	0.080
Aroclor 1016 #3	2.122	5079139	0.079
Aroclor 1016 #4	2.595	10596024	0.080
Aroclor 1016 #5	2.742	8619566	0.079
Aroclor 1260 #1	5.453	14538915	0.078
Aroclor 1260 #2	5.867	18467193	0.080
Aroclor 1260 #3	6.012	9901232	0.078
Aroclor 1260 #4	6.138	10203727	0.079
Aroclor 1260 #5	7.022	7699482	0.078
SURRDCBPCB	8.592	17881818	80.877
Aroclor 1016		40139386	0.397
Aroclor 1260		60810549	0.393

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\112410pcb\010.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\112410pcb.met
User: jjy
Sample ID: 72009,874138,,msds
Acquired: Nov 24,2010 14:26:24
Printed: Nov 24,2010 17:07:10

JJY
11/24/10

Data Summary: {Data Description}



front detector Results

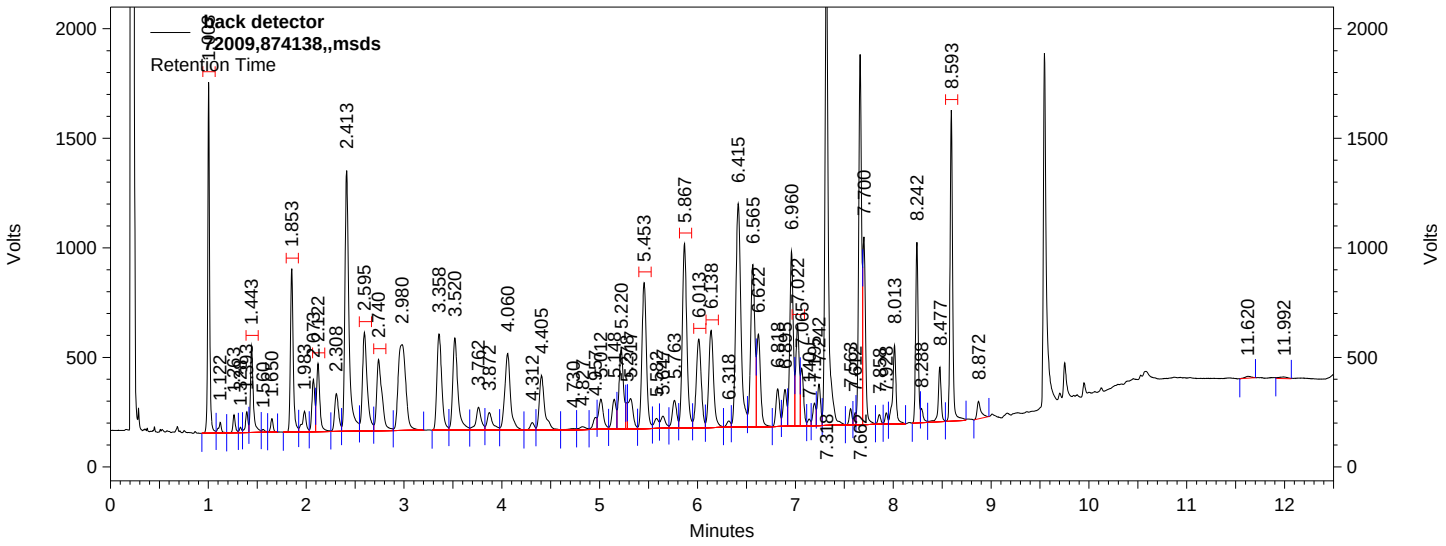
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.312	31402924	83.462
Aroclor 1016 #1	1.673	10663892	0.085
Aroclor 1016 #2	2.385	14712319	0.089
Aroclor 1016 #3	2.942	19259765	0.086
Aroclor 1016 #4	3.065	13912072	0.087
Aroclor 1016 #5	3.917	18441287	0.087
Aroclor 1260 #1	5.962	31573937	0.088
Aroclor 1260 #2	6.822	49251466	0.090
Aroclor 1260 #3	7.058	34253054	0.090
Aroclor 1260 #4	7.935	38240766	0.090
Aroclor 1260 #5	8.503	25888339	0.086
SURRDCBPCB	9.027	37733794	83.865
Aroclor 1016		76989335	0.433
Aroclor 1260		179207562	0.444

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\112410pcb\010.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\112410pcb.met
User: jjy
Sample ID: 72009,874138,,msds
Acquired: Nov 24,2010 14:26:24
Printed: Nov 24,2010 17:07:10

JJY
11/24/10

Data Summary: {Data Description}



back detector Results

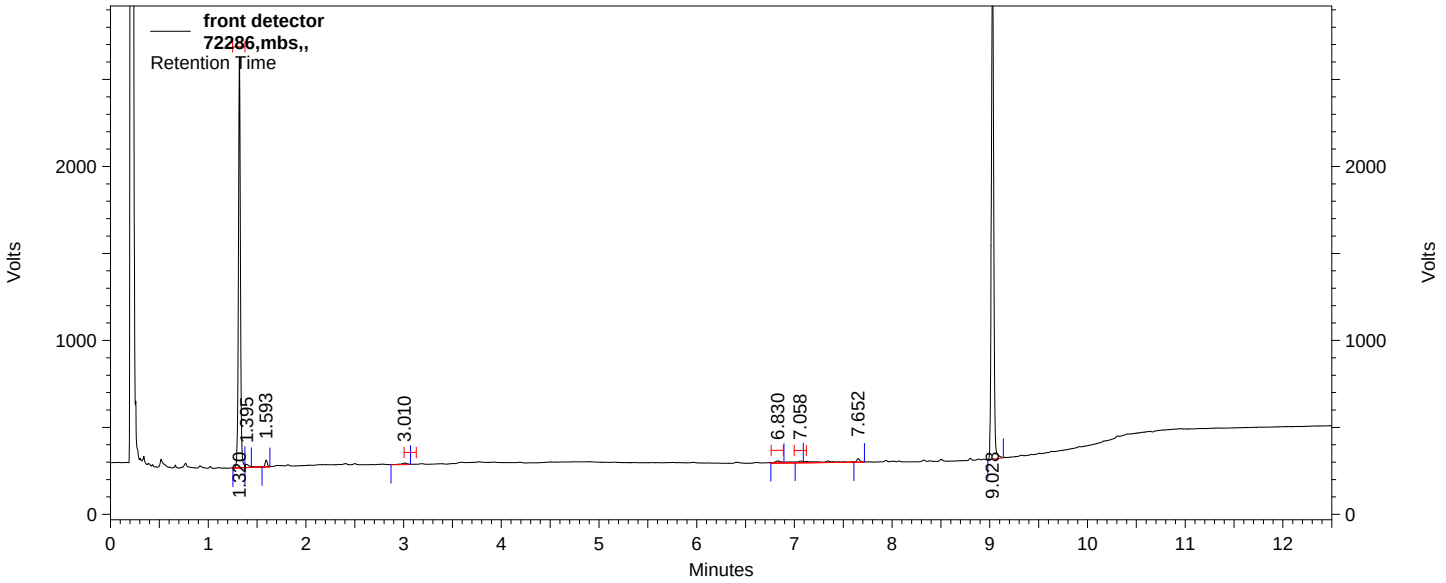
Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.003	16109775	81.288
Aroclor 1016 #1	1.443	6030674	0.088
Aroclor 1016 #2	1.853	11484608	0.089
Aroclor 1016 #3	2.122	5603772	0.088
Aroclor 1016 #4	2.595	11673377	0.089
Aroclor 1016 #5	2.740	9516005	0.087
Aroclor 1260 #1	5.453	16193416	0.087
Aroclor 1260 #2	5.867	20781098	0.091
Aroclor 1260 #3	6.013	11081707	0.087
Aroclor 1260 #4	6.138	11505664	0.090
Aroclor 1260 #5	7.022	8629084	0.088
SURRDCBPCB	8.593	19951335	90.797
Aroclor 1016		44308436	0.442
Aroclor 1260		68190969	0.443

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\120810pcb\023.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\120810pcb.met
User: jjy
Sample ID: 72286,mbs,,
Acquired: Dec 08,2010 15:00:06
Printed: Dec 08,2010 15:42:56

JJY
12/08/10

Data Summary: {Data Description}



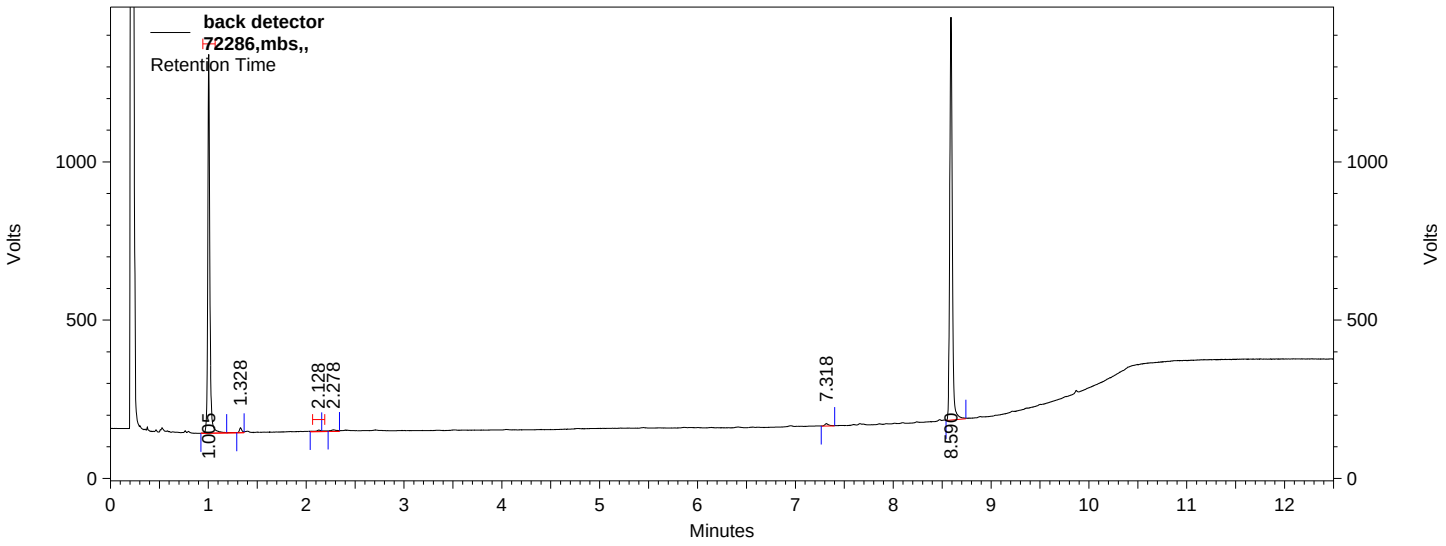
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.320	26089147	68.676
Aroclor 1016 #1			0.000 BDL
Aroclor 1016 #2			0.000 BDL
Aroclor 1016 #3			0.000 BDL
Aroclor 1016 #4	3.010	288371	0.000
Aroclor 1016 #5			0.000 BDL
Aroclor 1260 #1			0.000 BDL
Aroclor 1260 #2	6.830	402414	0.000
Aroclor 1260 #3	7.058	265826	0.000
Aroclor 1260 #4			0.000 BDL
Aroclor 1260 #5			0.000 BDL
SURRDCBPCB	9.028	37385974	83.052
Aroclor 1016		288371	0.000
Aroclor 1260		668240	0.000

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\120810pcb\023.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\120810pcb.met
User: jjy
Sample ID: 72286,mbs,,
Acquired: Dec 08,2010 15:00:06 JJY
Printed: Dec 08,2010 15:42:56 12/08/10

Data Summary: {Data Description}



back detector Results

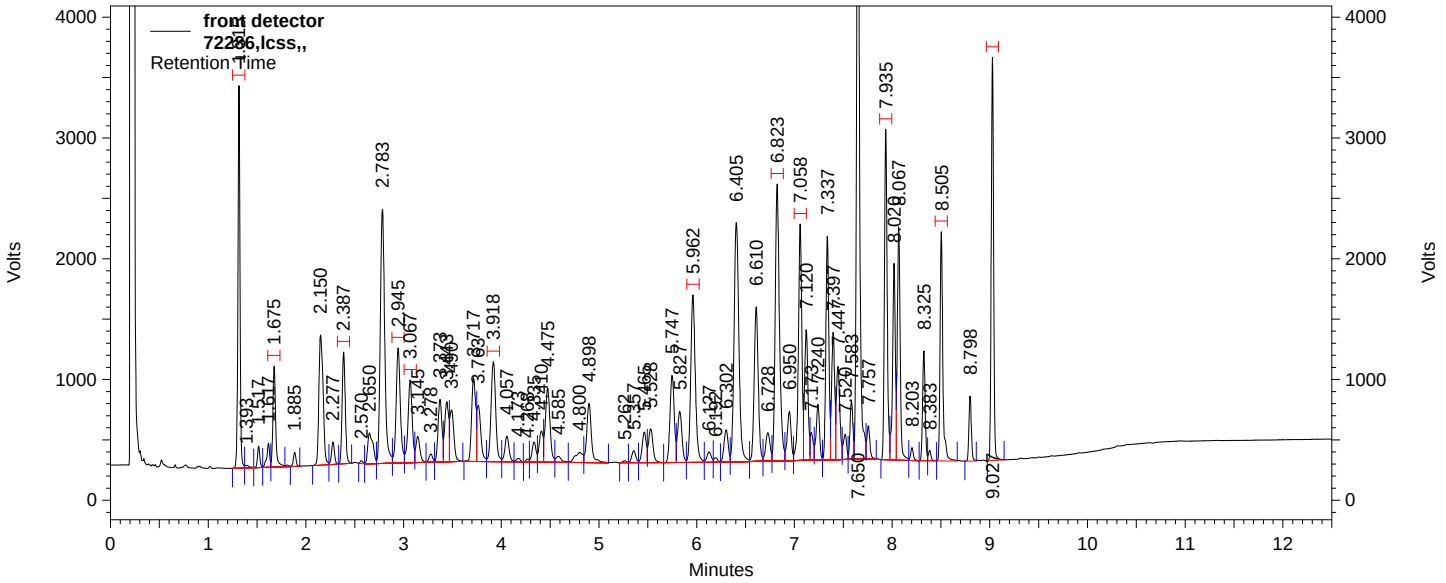
Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.005	13257704	66.429
Aroclor 1016 #1			0.000 BDL
Aroclor 1016 #2			0.000 BDL
Aroclor 1016 #3	2.128	128795	0.000
Aroclor 1016 #4			0.000 BDL
Aroclor 1016 #5			0.000 BDL
Aroclor 1260 #1			0.000 BDL
Aroclor 1260 #2			0.000 BDL
Aroclor 1260 #3			0.000 BDL
Aroclor 1260 #4			0.000 BDL
Aroclor 1260 #5			0.000 BDL
SURRDCBPCB	8.590	17831703	80.637
Aroclor 1016		128795	0.000
Aroclor 1260		0	0.000

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\120810pcb\024.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\120810pcb.met
User: jjy
Sample ID: 72286,lcss,,
Acquired: Dec 08,2010 15:15:44
Printed: Dec 08,2010 15:43:09

JJY
12/08/10

Data Summary: {Data Description}



front detector Results

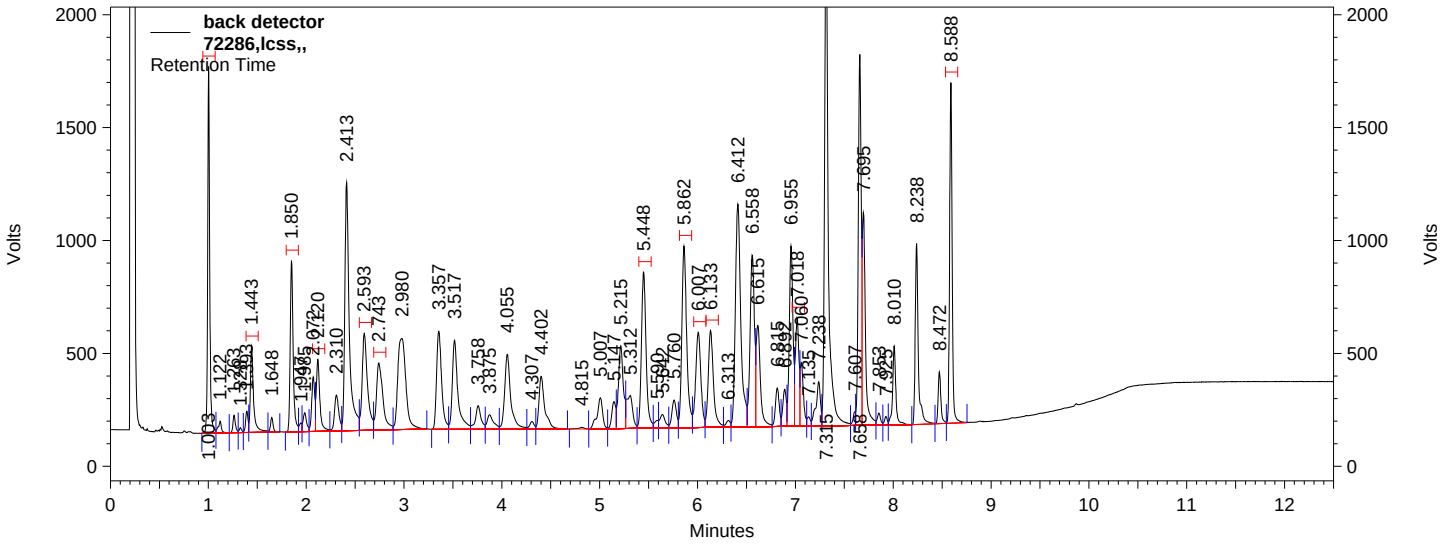
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.315	35563515	95.039
Aroclor 1016 #1	1.675	12493569	0.101
Aroclor 1016 #2	2.387	16065337	0.098
Aroclor 1016 #3	2.945	22013304	0.099
Aroclor 1016 #4	3.067	15708002	0.098
Aroclor 1016 #5	3.918	20842864	0.099
Aroclor 1260 #1	5.962	34627579	0.097
Aroclor 1260 #2	6.823	52747579	0.096
Aroclor 1260 #3	7.058	36607489	0.097
Aroclor 1260 #4	7.935	41097844	0.097
Aroclor 1260 #5	8.505	28536950	0.096
SURRDCBPCB	9.027	43451178	97.217
Aroclor 1016		87123076	0.495
Aroclor 1260		193617441	0.483

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\120810pcb\024.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\120810pcb.met
User: jjy
Sample ID: 72286,lcss,,
Acquired: Dec 08,2010 15:15:44
Printed: Dec 08,2010 15:43:09

JJY
12/08/10

Data Summary: {Data Description}



back detector Results

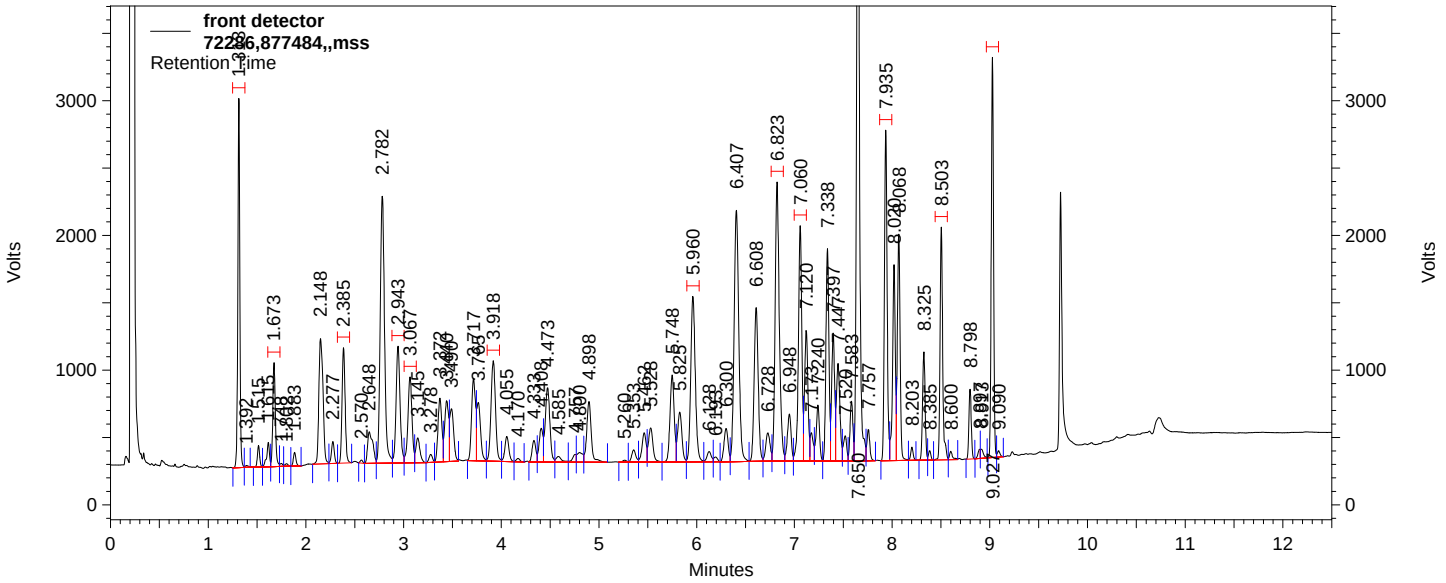
Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.003	17844200	90.324
Aroclor 1016 #1	1.443	6617071	0.098
Aroclor 1016 #2	1.850	12310656	0.096
Aroclor 1016 #3	2.120	6147589	0.097
Aroclor 1016 #4	2.593	12527511	0.096
Aroclor 1016 #5	2.743	10438892	0.096
Aroclor 1260 #1	5.448	17444626	0.094
Aroclor 1260 #2	5.862	21391910	0.093
Aroclor 1260 #3	6.007	12089195	0.096
Aroclor 1260 #4	6.133	11994122	0.094
Aroclor 1260 #5	7.018	9250734	0.095
SURRDCBPCB	8.588	20925199	95.465
Aroclor 1016		48041719	0.483
Aroclor 1260		72170587	0.472

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\120810pcb\029.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\120810pcb.met
User: jjy
Sample ID: 72286,877484,,mss
Acquired: Dec 08,2010 16:58:29
Printed: Dec 09,2010 09:00:33

JJY
12/09/10

Data Summary: {Data Description}



front detector Results

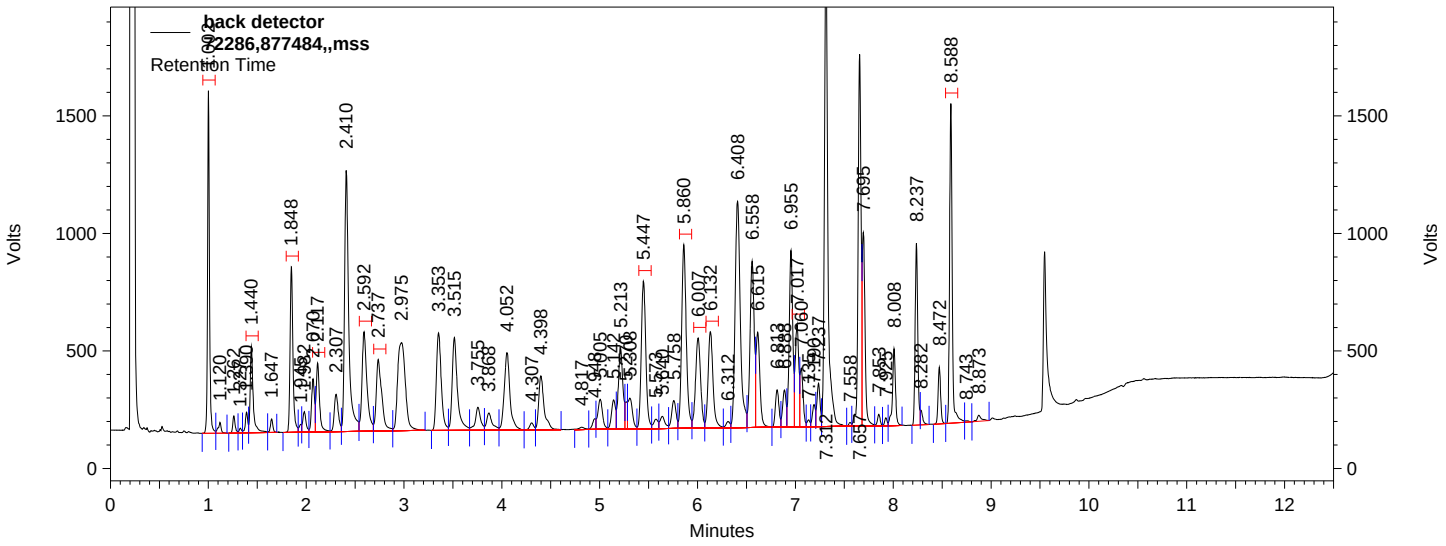
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.313	29837383	79.106
Aroclor 1016 #1	1.673	10665311	0.085
Aroclor 1016 #2	2.385	14528337	0.088
Aroclor 1016 #3	2.943	19125828	0.085
Aroclor 1016 #4	3.067	14113658	0.088
Aroclor 1016 #5	3.918	18137055	0.085
Aroclor 1260 #1	5.960	30524602	0.085
Aroclor 1260 #2	6.823	46822630	0.085
Aroclor 1260 #3	7.060	32810886	0.086
Aroclor 1260 #4	7.935	36465743	0.086
Aroclor 1260 #5	8.503	24506016	0.081
SURRDCBPCB	9.027	37326401	82.913
Aroclor 1016		76570189	0.431
Aroclor 1260		171129877	0.423

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\120810pcb\029.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\120810pcb.met
User: jjy
Sample ID: 72286,877484,,mss
Acquired: Dec 08,2010 16:58:29
Printed: Dec 09,2010 09:00:33

JJY
12/09/10

Data Summary: {Data Description}



back detector Results

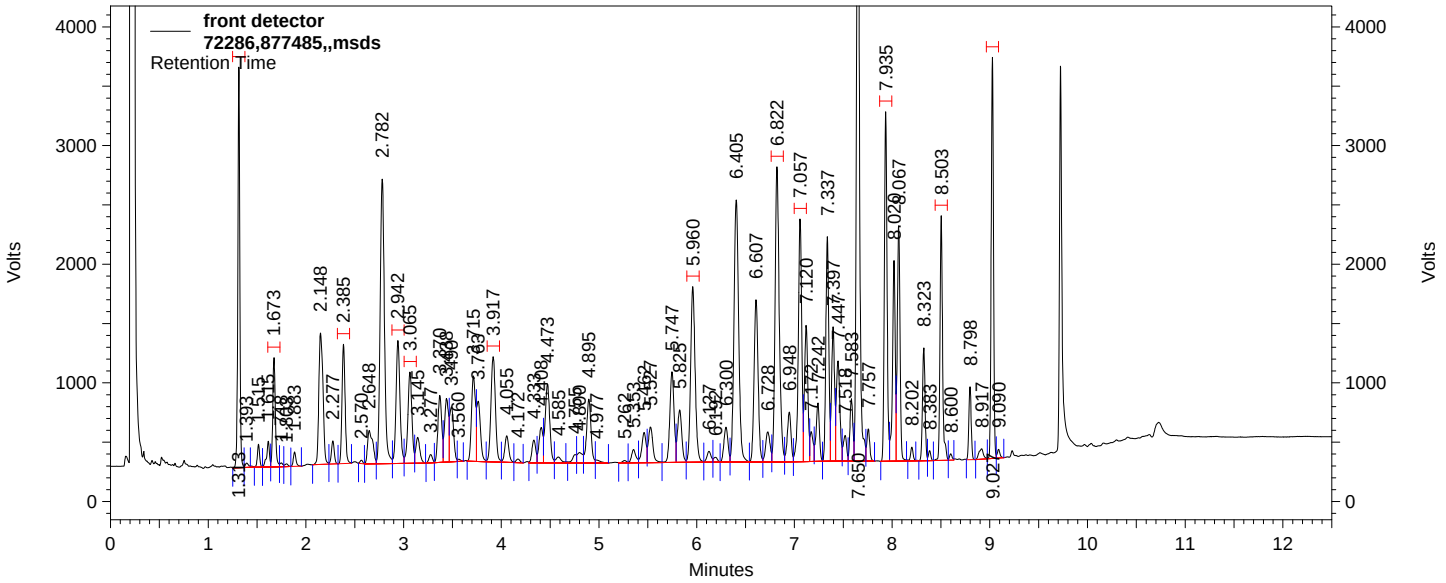
Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.002	15147909	76.277
Aroclor 1016 #1	1.440	5972625	0.088
Aroclor 1016 #2	1.848	11117095	0.086
Aroclor 1016 #3	2.117	5430228	0.085
Aroclor 1016 #4	2.592	11358600	0.086
Aroclor 1016 #5	2.737	9161625	0.084
Aroclor 1260 #1	5.447	15489745	0.083
Aroclor 1260 #2	5.860	19799874	0.086
Aroclor 1260 #3	6.007	10705242	0.084
Aroclor 1260 #4	6.132	10910910	0.085
Aroclor 1260 #5	7.017	8279982	0.085
SURRDCBPCB	8.588	19453391	88.410
Aroclor 1016		43040173	0.429
Aroclor 1260		65185753	0.423

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\120810pcb\030.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\120810pcb.met
User: jjy
Sample ID: 72286,877485,,msds
Acquired: Dec 08,2010 17:14:05
Printed: Dec 09,2010 09:00:41

JJY
12/09/10

Data Summary: {Data Description}



front detector Results

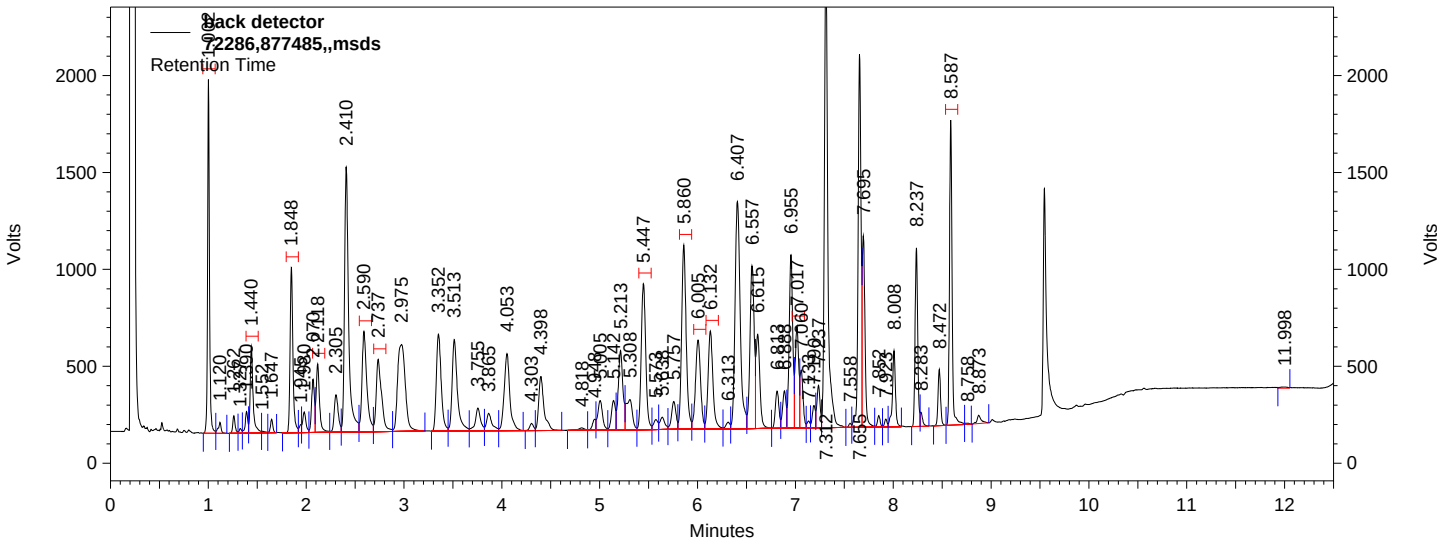
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.313	36522935	97.708
Aroclor 1016 #1	1.673	12729781	0.103
Aroclor 1016 #2	2.385	17150634	0.105
Aroclor 1016 #3	2.942	22630749	0.102
Aroclor 1016 #4	3.065	16787942	0.105
Aroclor 1016 #5	3.917	21465977	0.102
Aroclor 1260 #1	5.960	36454978	0.103
Aroclor 1260 #2	6.822	56422517	0.103
Aroclor 1260 #3	7.057	38537670	0.102
Aroclor 1260 #4	7.935	43426074	0.103
Aroclor 1260 #5	8.503	28590586	0.096
SURRDCBPCB	9.027	42538102	95.085
Aroclor 1016		90765083	0.517
Aroclor 1260		203431825	0.507

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\120810pcb\030.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\120810pcb.met
User: jjy
Sample ID: 72286,877485,,msds
Acquired: Dec 08,2010 17:14:05
Printed: Dec 09,2010 09:00:41

JJY
12/09/10

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.002	18723433	94.904
Aroclor 1016 #1	1.440	7012907	0.104
Aroclor 1016 #2	1.848	13363180	0.105
Aroclor 1016 #3	2.118	6564327	0.104
Aroclor 1016 #4	2.590	13624274	0.105
Aroclor 1016 #5	2.737	10970329	0.102
Aroclor 1260 #1	5.447	18528714	0.100
Aroclor 1260 #2	5.860	23795408	0.104
Aroclor 1260 #3	6.005	12797161	0.102
Aroclor 1260 #4	6.132	13179648	0.103
Aroclor 1260 #5	7.017	9914461	0.102
SURRDCBPCB	8.587	21964217	100.445
Aroclor 1016		51535017	0.519
Aroclor 1260		78215392	0.512

POLYCHLORINATED BIPHENYLS
LOGBOOK
DOCUMENTS

S PCB Analytical Run
72009 on 11/30/2010

Date Analyzed: JJY 11/30/10

Date Entered:

Date Reviewed:

Date Validated:

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	874139						PCB QSM				
				MBS				35516			
	874140						PCB QSM				
				LCSS				35516			
82424	870201		11/9/2010 1525		USACE - LOUISVILLE	RAVENNA	PCB QSM		S	**4**	
		DLASS-014-0001-SO		Designated MS/MSD				35516			
	874137		11/9/2010 1525				PCB QSM				
		DLASS-014-0001-SO		MSS 870201				35516			
	874138		11/9/2010 1525				PCB QSM				
		DLASS-014-0001-SO		MSDS 874137				35516			
82424	870203		11/9/2010 1535		USACE - LOUISVILLE	RAVENNA	PCB QSM		S	**4**	
		DLASS-014-0003-SO						35516			
82458	871184		11/11/2010 0900		USACE - LOUISVILLE	RAVENNA ORE PILES	PCB QSM		S	**4**	
		DLASS-032-0003-SO						35516			
82458	871186		11/11/2010 1230		USACE - LOUISVILLE	RAVENNA ORE PILES	PCB QSM		S	**4**	
		DLASS-042-0003-SO						35516			
82458	871197		11/11/2010 1220		USACE - LOUISVILLE	RAVENNA ORE PILES	PCB QSM		S	**4**	
		DLASS-042-0001-SO						35516			
82458	871198		11/11/2010 0900		USACE - LOUISVILLE	RAVENNA ORE PILES	PCB QSM		S	**4**	
		DLASS-032-0001-SO						35516			

10 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

PREP WORKSHEET
on 11/30/2010

Prep Batch **35,516**

Prepped By:: BEL

Date Prepped: 11/22/2010

Date Entered:

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
	874139	MBS		PCB QSM	SOLID	10.0	10.00			
	874140	LCSS		PCB QSM	SOLID	10.0	10.00			
82424	870201	*		PCB QSM	SOIL	10.0	9.95		N	
	870203			PCB QSM	SOIL	10.0	9.95		N	
82458	871184			PCB QSM	SOIL	10.0	10.05		N	
	871186			PCB QSM	SOIL	10.0	10.04		N	
	871197			PCB QSM	SOIL	10.0	10.04		N	
	871198			PCB QSM	SOIL	10.0	10.03		N	
	874137	MSS	870201	PCB QSM	SOIL	10.0	10.00			
	874138	MSDS	874137	PCB QSM	SOIL	10.0	10.04			

Control Spike/Control Spike Dup Reference Number:_____ Methanol Supplier/Lot #:_____

Notes:_____

Pesticides/PCB Extraction Bench Sheet
SOP Reference Number 8081&8082

Prep Batch Number 35516

EPA Method references:

8081 (Pesticides)
8082 (PCB)

3510 (Separatory Funnel Extraction)
3545 (Pressurized Fluid Extraction)
3580 (Waste Dilution)
3535 (Solid Phase Extraction)
3546 (Microwave Extraction)

Spike and Surrogate Information:

Spike amount and concentration (Matrix Spike and LCS): 0.5 mL @ 10 µg/mL
Spike Reference: **PP** 3122
Tox/Chlor spike amount and concentration: —
Tox/Chlor spike Reference: **PP** —
Surrogate amount and concentration: 0.5 mL @ 10 µg/mL
Surrogate standard reference: **PP** 3131

Reagent Lot #

$MeCl_2$ J36J16 Hexane H51E55 Na_2SO_4 J29601
Dionex **DI** 1433 Acetone J14E52 Diatomaceous Earth 49324
Methanol — Acid — Scale semibalance 1
GPC Start — GPC End —

Extraction by: BEL Date 11/22/10 Start Time 10:00 End Time 11:30
Initial Concentration by: — Date —/—/—
Final Concentration by: HHK Date 11/23/10

Cell #	Client	Sample Number	Sample Amt. (gm or mL)	Final Vol (mL)	pH	Comments
P	**Method Blank**	MB 874139	10.00	10.0		
Q	**Control Spike**	LCS 874140	10.00			
	~~**Control Spike Dup.**~~	LCSD	N/A BEL 11/22/10			
	Tox/Chlor Spike	Tox/Chlor				
R	**Matrix Spike**	MS 870201	10.00	10.0		
S	**Matrix Spike Dup.**	MSD 870201	10.04			
T	USACE	870201	9.95			
U		870203	9.95			
V		871184	10.05			
W		871186	10.04			
X		871197	10.07			
Y		871198	10.03			

S PCB Analytical Run
72286 on 12/13/2010

Date Analyzed: JJY

Date Entered: 12/13/10

Date Reviewed:

Date Validated:

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	877486						PCB QSM				
				MBS				35630			
	877487						PCB QSM				
				LCSS				35630			
82424	870194	11/9/2010	1220		USACE - LOUISVILLE	RAVENNA	PCB QSM		S	**4**	
		DLASS-022-0001-SO						35630			
82424	870195	11/9/2010	1230		USACE - LOUISVILLE	RAVENNA	PCB QSM		S	**4**	
		DLASS-022-0003-SO						35630			
82424	870212	11/10/2010	1025		USACE - LOUISVILLE	RAVENNA	PCB QSM		S	**4**	
		DLASS-002-0003-SO						35630			
82424	870189	11/10/2010	1015		USACE - LOUISVILLE	RAVENNA	PCB QSM		S	**4**	
		DLASS-002-0001-SO		Designated MS/MSD				35630			
	877484	11/10/2010	1015				PCB QSM				
		DLASS-002-0001-SO		MSS 870189				35630			
	877485	11/10/2010	1015				PCB QSM				
		DLASS-002-0001-SO		MSDS 877484				35630			

8 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

PREP WORKSHEET
on 12/13/2010

Prep Batch **35,630**

Prepped By:: HHK

Date Prepped: 12/3/2010

Date Entered:

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
	877486	MBS		PCB QSM	SOLID	10.00	10.00			
	877487	LCSS		PCB QSM	SOLID	10.00	10.00			
82424	870189	*		PCB QSM	SOIL	10.00	10.00		N	
	870194			PCB QSM	SOIL	10.00	10.05		N	
	870195			PCB QSM	SOIL	10.00	10.04		N	
	870212			PCB QSM	SOIL	10.00	10.10		N	
	877484	MSS	870189	PCB QSM	SOIL	10.00	9.98			
	877485	MSDS	877484	PCB QSM	SOIL	10.00	9.98			

Control Spike/Control Spike Dup Reference Number:_____ Methanol Supplier/Lot #:_____

Notes:_____

Pesticides/PCB Extraction Bench Sheet
SOP Reference Number 8081&8082

EPA Method references: **Prep Batch Number** 356330

8081 (Pesticides) 3510 (Separatory Funnel Extraction)
8082 (PCB) ~~3545 (Pressurized Fluid Extraction)~~
3580 (Waste Dilution)
3535 (Solid Phase Extraction)
3546 (Microwave Extraction)

Spike and Surrogate Information:

Spike amount and concentration (Matrix Spike and LCS): 0.5ml @ 10-g/ml
Spike Reference: PP 3122
Tox/Chlor spike amount and concentration: —
Tox/Chlor spike Reference: PP —
Surrogate amount and concentration: 0.5ml @ 0.5-g/ml
Surrogate standard reference: PP 3131

Reagent Lot #

$MeCl_2$ 336316 Hexane HX1E55 Na_2SO_4 J29601
Dionex DI 1434 Acetone J14E52 Diatomaceous Earth 49234
Methanol — Acid — Scale semi
GPC Start — GPC End —

Extraction by: HHK Date 12/3/10 Start Time 1500 End Time 1530
Initial Concentration by: — Date —/—/—
Final Concentration by: HHK Date 12/6/10

Cell #	Client	Sample Number	Sample Amt. (gm or mL)	Final Vol (mL)	pH	Comments
	Method Blank	MB 877486	10.00	10.0		
	Control Spike	LCS 877487	"	"		
	~~Control Spike Dup~~	LCSD N/A	HHK 12-3-10			
	Tox/Chlor Spike	Tox/Chlor				
	Matrix Spike	MS 870189	9.98	10.0		
	Matrix Spike Dup.	MSD	"	"		
	USACE		10.00			
		870194	10.05			
		870195	10.04			
		870212	10.10			

N/A HHK 12-3-10

Footnotes:

*: Final extract
Relinquished by: HHK Date: 12-6-10 Relinquished to: HHK Date: 12-6-10

Reviewed By: _____

Summary Report

Instrument ID: Semi 7 (Offline)
Data Path: C:\Instarch\Semi7\Sequence\111110pcbic.seq
User ID: jjy
Printed Date: 11/11/2010 4:39:24 PM

JJY
11/15/10

Run Number	Sample ID	Data Filename	Method Filename	Analysis Date	Data Description
1	Prime PP 3041	001.dat	111110pcbic.met	11/11/2010 4:26:54 PM	
2	Hexane	002.dat	111110pcbic.met	11/11/2010 4:42:31 PM	
3	PCB ICAL 1 PP 3036	003.dat	111110pcbic.met	11/11/2010 4:58:08 PM	
4	PCB ICAL 2 PP 3037	004.dat	111110pcbic.met	11/11/2010 5:13:48 PM	
5	PCB ICAL 3 PP 3038	005.dat	111110pcbic.met	11/11/2010 5:29:27 PM	
6	PCB ICAL 4 PP 3039	006.dat	111110pcbic.met	11/11/2010 5:45:06 PM	
7	PCB ICAL 5 PP 3040	007.dat	111110pcbic.met	11/11/2010 6:00:45 PM	
8	PCB ICAL 6 PP 3041	008.dat	111110pcbic.met	11/11/2010 6:16:25 PM	
9	Hexane	009.dat	111110pcbic.met	11/11/2010 6:32:04 PM	
10	PCB ICV PP 3047	010.dat	111110pcbic.met	11/11/2010 6:47:45 PM	
11	Hexane	011.dat	111110pcbic.met	11/11/2010 7:03:27 PM	
12	PCB 1221 CF PP 3068	012.dat	1221.met	11/11/2010 7:19:08 PM	
13	PCB 1232 CF PP 3042	013.dat	1232.met	11/11/2010 7:34:49 PM	
14	PCB 1242 CF PP 3043	014.dat	1242.met	11/11/2010 7:50:34 PM	
15	PCB 1248 CF PP 3044	015.dat	1248.met	11/11/2010 8:06:17 PM	
16	PCB 1254 CF PP 3045	016.dat	1254.met	11/11/2010 8:21:56 PM	
17	PCB 1262 CF PP 3046	017.dat	1262.met	11/11/2010 8:37:33 PM	
18	PCB 1268 CF PP 3072	018.dat	1268.met	11/11/2010 8:53:10 PM	
19	Hexane	019.dat	111110pcbic.met	11/11/2010 9:08:48 PM	
20	PCB 1221 ICV PP 3069	020.dat	1221.met	11/11/2010 9:24:25 PM	
21	PCB 1232 ICV PP 3048	021.dat	1232.met	11/11/2010 9:40:04 PM	
22	PCB 1242 ICV PP 3049	022.dat	1242.met	11/11/2010 9:55:44 PM	
23	PCB 1248 ICV PP 3050	023.dat	1248.met	11/11/2010 10:11:23 PM	
24	PCB 1254 ICV PP 3051	024.dat	1254.met	11/11/2010 10:27:02 PM	
25	PCB 1262 ICV PP 3052	025.dat	1262.met	11/11/2010 10:42:43 PM	
26	PCB 1268 ICV PP 3073	026.dat	1268.met	11/11/2010 10:58:25 PM	
27	Hexane	027.dat	111110pcbic.met	11/11/2010 11:14:07 PM	

Summary Report

Instrument ID: **Semi 7**
Data Path: **C:\Instarch\Semi7\Sequence\112410pcb.seq**
User ID: **jjy**
Printed Date: **Nov 24,2010 16:54:14**

JJY
11/24/10

Run Number	Sample ID	Data Filename	Method Filename	Analysis Date	Data Description
1	Prime PP 3041	001.dat	112410pcb.met	Nov 24,2010 10:30:20	
2	Hexane	002.dat	112410pcb.met	Nov 24,2010 10:46:01	
3	PCB CCV PP 3039	003.dat	112410pcb.met	Nov 24,2010 11:01:38	
4	Hexane	004.dat	112410pcb.met	Nov 24,2010 11:17:18	
5	72009,mbs,,	005.dat	112410pcb.met	Nov 24,2010 11:32:58	
6	72009,lcss,,	006.dat	112410pcb.met	Nov 24,2010 11:48:38	
7	Hexane	007.dat	112410pcb.met	Nov 24,2010 12:04:18	
8	72009,870201,,	008.dat	112410pcb.met	Nov 24,2010 13:55:03	
9	72009,874137,,mss	009.dat	112410pcb.met	Nov 24,2010 14:10:43	
10	72009,874138,,msds	010.dat	112410pcb.met	Nov 24,2010 14:26:24	
11	Hexane	011.dat	112410pcb.met	Nov 24,2010 14:42:07	
12	72009,870203,,	012.dat	112410pcb.met	Nov 24,2010 14:57:49	
13	72009,871184,,	013.dat	112410pcb.met	Nov 24,2010 15:13:30	
14	72009,871186,,	014.dat	112410pcb.met	Nov 24,2010 15:29:11	
15	72009,871197,,	015.dat	112410pcb.met	Nov 24,2010 15:44:52	
16	72009,871198,,	016.dat	112410pcb.met	Nov 24,2010 16:00:34	
17	PCB CCV PP 3039	017.dat	112410pcb.met	Nov 24,2010 16:16:11	

Summary Report

Instrument ID: **Semi 7**
Data Path: **C:\Instarch\Semi7\Sequence\120810pcb.seq**
User ID: **jjy**
Printed Date: **Dec 08,2010 15:39:03**

JJY
12/09/10

Run Number	Sample ID	Data Filename	Method Filename	Analysis Date	Data Description
1	Prime PP 3148	001.dat	120810pcb.met	Dec 08,2010 09:05:51	
2	Hexane	002.dat	120810pcb.met	Dec 08,2010 09:21:33	
3	PCB CCV PP 3149	003.dat	120810pcb.met	Dec 08,2010 09:37:10	
4	Hexane	004.dat	120810pcb.met	Dec 08,2010 09:52:47	
5	72285,mbs,,	005.dat	120810pcb.met	Dec 08,2010 10:08:26	
6	72285,lcss,,	006.dat	120810pcb.met	Dec 08,2010 10:24:04	
7	Hexane	007.dat	120810pcb.met	Dec 08,2010 10:39:41	
8	72285,876763,,	008.dat	120810pcb.met	Dec 08,2010 10:55:22	
9	72285,876771,,	009.dat	120810pcb.met	Dec 08,2010 11:11:01	
10	72285,876772,,	010.dat	120810pcb.met	Dec 08,2010 11:26:40	
11	72285,876773,,	011.dat	120810pcb.met	Dec 08,2010 11:42:20	
12	72285,876774,,	012.dat	120810pcb.met	Dec 08,2010 11:57:58	
13	72285,876775,,	013.dat	120810pcb.met	Dec 08,2010 12:13:38	
14	72285,876776,,	014.dat	120810pcb.met	Dec 08,2010 12:29:19	
15	72285,876777,,	015.dat	120810pcb.met	Dec 08,2010 12:45:00	
16	PCB CCV PP 3149	016.dat	120810pcb.met	Dec 08,2010 13:00:44	
17	72285,877179,,mss	017.dat	120810pcb.met	Dec 08,2010 13:16:25	
18	72285,877180,,msds	018.dat	120810pcb.met	Dec 08,2010 13:32:07	
19	72285,876778,,	019.dat	120810pcb.met	Dec 08,2010 13:47:52	
20	72285,876779,,	020.dat	120810pcb.met	Dec 08,2010 14:10:58	
21	72285,876780,,	021.dat	120810pcb.met	Dec 08,2010 14:26:32	
22	PCB CCV PP 3149	022.dat	120810pcb.met	Dec 08,2010 14:42:15	
23	72286,mbs,,	023.dat	120810pcb.met	Dec 08,2010 15:00:06	
24	72286,lcss,,	024.dat	120810pcb.met	Dec 08,2010 15:15:44	
25	72286,870194,,	025.dat	120810pcb.met	Dec 08,2010 15:31:21	
26	72286,870195,,	026.dat	120810pcb.met	Dec 08,2010 15:47:03	
27	72286,870212,,	027.dat	120810pcb.met	Dec 08,2010 16:27:09	
28	72286,870189,,	028.dat	120810pcb.met	Dec 08,2010 16:42:49	
29	72286,877484,,mss	029.dat	120810pcb.met	Dec 08,2010 16:58:29	
30	72286,877485,,msds	030.dat	120810pcb.met	Dec 08,2010 17:14:05	
31	PCB CCV PP 3149	031.dat	120810pcb.met	Dec 08,2010 17:29:44	
32	72292,875477,,	032.dat	120810pcb.met	Dec 08,2010 17:45:20	
33	Hexane	033.dat	120810pcb.met	Dec 08,2010 18:01:04	
34	72288,mbs,,	034.dat	120810pcb.met	Dec 08,2010 18:16:44	
35	72288,lcss,,	035.dat	120810pcb.met	Dec 08,2010 18:32:22	
36	72288,875762,,	036.dat	120810pcb.met	Dec 08,2010 18:48:03	
37	Hexane	037.dat	120810pcb.met	Dec 08,2010 19:03:43	
38	72320,mbss,,	038.dat	120810pcb.met	Dec 08,2010 19:19:21	
39	72320,lcss,,	039.dat	120810pcb.met	Dec 08,2010 19:35:03	
40	72320,876764,,	040.dat	120810pcb.met	Dec 08,2010 19:50:44	
41	72320,877810,,mss	041.dat	120810pcb.met	Dec 08,2010 20:06:25	
42	72320,877811,,msds	042.dat	120810pcb.met	Dec 08,2010 20:22:06	
43	Hexane	043.dat	120810pcb.met	Dec 08,2010 20:37:47	
44	PCB CCV PP 3149	044.dat	120810pcb.met	Dec 08,2010 20:53:28	

Table 4

8082 PCB Analysis Data Review Checklist

Analytical Run #: 72009	**Independent Reviewer: red**
Sequence Date: 11/24/2010	**Date of Review: 11/29/2010**
Analyst/Data Interpreter: JJY	**Approval: YES**

Instructions: Complete one checklist per *analytical run* . Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section, and may require the initiation of a Nonconformance Report.

Requirements:	Acceptance Criteria	Analyst Review		Independent Review		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
1. INITIAL CALIBRATION (ICAL)						
a. Was the PCB initial calibration (Aroclor 1016/1260) performed using a minimum of five varying standard concentration levels on two dissimilar columns?	Lowest standard at or near MRL	**Yes**		**Yes**		
b. Is the variation between calibration response factors for all concentration levels <20% RSD, is r^2 >.990, or r > 0.990 for the regression line?	RSD<20%, r^2>0.990, or r>0.990	**Yes**		**Yes**		
c. Was each ICAL uniquely identified (i.e. Standard Number)?		**Yes**		**Yes**		
d. Were there Calibration Factors (CF) established for the remaining Aroclors?		**Yes**		**Yes**		
e. Was an initial calibration blank (ICB) analyzed?		**Yes**		**Yes**		
2. INITIAL CALIBRATION VERIFICATION (ICV)						
a. Were there second source ICVs for all Aroclors analyzed after the initial calibration and prior to analysis of any samples?		**Yes**		**Yes**		
b. Were the recoveries for the ICVs within program limits?	Second source	**Yes**		**Yes**		
c. Was the ICVs uniquely identified (i.e. Standard Number)?	%Recovery	**Yes**		**Yes**		
3. CONTINUING CALIBRATION VERIFICATION (CCV)						
a. Were CCVs (Aroclor 1016/1260) analyzed at the beginning of the sequence, after every 12 hours or every 20 samples (which ever comes first) and at the end of the analytical run? QSM = every ten sample injections.		**Yes**		**Yes**		
b. Were the recoveries for the CCVs within program limits?	%Recovery	**Yes**		**Yes**		
c. Were confirmed Aroclor detects processed using the appropriate Aroclor method?		**Yes**		**Yes**		
d. Was each CCV uniquely identified (i.e. Standard Number)?		**Yes**		**Yes**		

Additional Comments:

Analytical Run #: 72009

Table 4

8082 PCB Analysis Data Review Checklist

Requirements:	Acceptance Criteria	Analyst		Independent		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
4. BLANKS						
a. Was the method blank (MB) analyzed prior to the analysis of samples?		**Yes**		**Yes**		
b. Was the MB result less than ½ the reporting limit (RL) or 5% of the sample amount?	In-house limits or client specified limits	**Yes**		**Yes**		
c. Was a MB prepped and analyzed at a frequency of one per Prep Batch?	Batch <20 samples	**Yes**		**Yes**		
5. LABORATORY CONTROL SAMPLE (LCS)						
a. Was a LCS analyzed prior to the analysis of samples?		**Yes**		**Yes**		
b. Were the LCS recoveries in each LCS within the acceptance criteria?	Batch <20 samples	**Yes**		**Yes**		
c. Was a LCS analyzed at a frequency one per Prep Batch?	In-house limits or client specified limits	**Yes**		**Yes**		
6. MATRIX SPIKES						
a. Was a matrix spiked (MS) sample analyzed at a frequency one per Prep Batch?	Batch <20 samples	**Yes**		**Yes**		
b. Were MS recoveries in each MS within the acceptance criteria?	In-house limits or client specified limits	**Yes**		**Yes**		
7. LABORATORY CONTROL SPIKE / MATRIX SPIKE DUPLICATE						
a. Was a duplicate matrix spike or laboratory control spike sample analyzed at a . frequency one per Prep Batch?	Batch <20 samples	**Yes**		**Yes**		
b. Were MSD or LCSD recoveries within the acceptance criteria?	In-house limits or client specified limits	**Yes**		**Yes**		
c. Is the relative percent difference (RPD) between a matrix spike (MS) and its' duplicate (MSD) or laboratory control spike (LCS) and its' duplicate (LCSD) within the acceptance criteria?	In-house limits or client specified limits	**Yes**		**Yes**		

Additional Comments:

Analytical Run #: 72009

Table 4

8082 PCB Analysis Data Review Checklist

Requirements:	Acceptance Criteria	Analyst		Independent		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
8. SAMPLES (INCLUDING BLANKS, STANDARDS, AND QC SAMPLES)						
a. Are chromatogram characteristics, including peak shapes and areas, consistent with those of the CCV?		**Yes**		**Yes**		
b. Are surrogate recoveries for all samples, blanks, standards, and QC samples within acceptance criteria?		**Yes**		**Yes**		
c. Were all samples having analytes detected in amounts exceeding the calibration range diluted and reanalyzed?		**Yes**		**Yes**		
d. Were all samples extracted within holding times and analyzed within 40 days of extracting?	Analysis within 40 days of extraction	**Yes**		**Yes**		
e. Did the samples require additional cleanup steps? (i.e. acid treatment, florisil, GPC, and sulfur treatment)	Florisil, GPC, Acid, Sulfur Treatments	**Yes**		**Yes**		Acid, Sulfur treatments.
f. Was there a hexane injection performed prior to sample analysis?		**Yes**		**Yes**		
g. Was there a priming standard injected prior to sample analysis?		**Yes**		**Yes**		
9. RECORDS AND REPORTING						
a. Is the Analytical Run, Prep Batch and Extraction sheets, Summary sheets, Sequence file, analytical data, and method transfer to PDF format?		**Yes**		**Yes**		
b. Are all chromatograms stamped with initials and date?		**Yes**		**Yes**		
c. Are reported results whose amounts exceeded the acceptance criteria flagged with an appropriate qualifier in LIMS and, if needed, a NCR completed?		**Yes**		**Yes**		
d. Do all values, dilution factors and qualifiers listed on the raw reports match the LIMS data?		**Yes**		**Yes**		
e. Is the ICAL method referenced on the Raw Data?		**Yes**		**Yes**		

Additional Comments:

Table 4

8082 PCB Analysis Data Review Checklist

Analytical Run #: 72286	**Independent Reviewer: red**
Sequence Date: 12/08/2010	**Date of Review: 12/10/2010**
Analyst/Data Interpreter: JJY	**Approval: YES**

Instructions: Complete one checklist per *analytical run* . Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section, and may require the initiation of a Nonconformance Report.

Requirements:	Acceptance Criteria	Analyst Review		Independent Review		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
1. INITIAL CALIBRATION (ICAL)						
a. Was the PCB initial calibration (Aroclor 1016/1260) performed using a minimum of five varying standard concentration levels on two dissimilar columns?	Lowest standard at or near MRL	**Yes**		**Yes**		
b. Is the variation between calibration response factors for all concentration levels <20% RSD, is r^2 >.990, or r > 0.990 for the regression line?	RSD<20%, r^2>0.990, or r>0.990	**Yes**		**Yes**		
c. Was each ICAL uniquely identified (i.e. Standard Number)?		**Yes**		**Yes**		
d. Were there Calibration Factors (CF) established for the remaining Aroclors?		**Yes**		**Yes**		
e. Was an initial calibration blank (ICB) analyzed?		**Yes**		**Yes**		
2. INITIAL CALIBRATION VERIFICATION (ICV)						
a. Were there second source ICVs for all Aroclors analyzed after the initial calibration and prior to analysis of any samples?		**Yes**		**Yes**		
b. Were the recoveries for the ICVs within program limits?	Second source	**Yes**		**Yes**		
c. Was the ICVs uniquely identified (i.e. Standard Number)?	%Recovery	**Yes**		**Yes**		
3. CONTINUING CALIBRATION VERIFICATION (CCV)						
a. Were CCVs (Aroclor 1016/1260) analyzed at the beginning of the sequence, after every 12 hours or every 20 samples (which ever comes first) and at the end of the analytical run? QSM = every ten sample injections.		**Yes**		**Yes**		
b. Were the recoveries for the CCVs within program limits?	%Recovery	**Yes**		**Yes**		
c. Were confirmed Aroclor detects processed using the appropriate Aroclor method?		**Yes**		**Yes**		
d. Was each CCV uniquely identified (i.e. Standard Number)?		**Yes**		**Yes**		

Additional Comments:

Analytical Run #: 72286

Table 4

8082 PCB Analysis Data Review Checklist

Requirements:	Acceptance Criteria	Analyst		Independent		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
4. BLANKS						
a. Was the method blank (MB) analyzed prior to the analysis of samples?		**Yes**		**Yes**		
b. Was the MB result less than ½ the reporting limit (RL) or 5% of the sample amount?	In-house limits or client specified limits	**Yes**		**Yes**		
c. Was a MB prepped and analyzed at a frequency of one per Prep Batch?	Batch <20 samples	**Yes**		**Yes**		
5. LABORATORY CONTROL SAMPLE (LCS)						
a. Was a LCS analyzed prior to the analysis of samples?		**Yes**		**Yes**		
b. Were the LCS recoveries in each LCS within the acceptance criteria?	Batch <20 samples	**Yes**		**Yes**		
c. Was a LCS analyzed at a frequency one per Prep Batch?	In-house limits or client specified limits	**Yes**		**Yes**		
6. MATRIX SPIKES						
a. Was a matrix spiked (MS) sample analyzed at a frequency one per Prep Batch?	Batch <20 samples	**Yes**		**Yes**		
b. Were MS recoveries in each MS within the acceptance criteria?	In-house limits or client specified limits	**Yes**		**Yes**		
7. LABORATORY CONTROL SPIKE / MATRIX SPIKE DUPLICATE						
a. Was a duplicate matrix spike or laboratory control spike sample analyzed at a . frequency one per Prep Batch?	Batch <20 samples	**Yes**		**Yes**		
b. Were MSD or LCSD recoveries within the acceptance criteria?	In-house limits or client specified limits	**Yes**		**Yes**		
c. Is the relative percent difference (RPD) between a matrix spike (MS) and its' duplicate (MSD) or laboratory control spike (LCS) and its' duplicate (LCSD) within the acceptance criteria?	In-house limits or client specified limits	**Yes**		**Yes**		

Additional Comments:

Analytical Run #: 72286

Table 4

8082 PCB Analysis Data Review Checklist

Requirements:	Acceptance Criteria	Analyst		Independent		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
8. SAMPLES (INCLUDING BLANKS, STANDARDS, AND QC SAMPLES)						
a. Are chromatogram characteristics, including peak shapes and areas, consistent with those of the CCV?		**Yes**		**Yes**		
b. Are surrogate recoveries for all samples, blanks, standards, and QC samples within acceptance criteria?		**Yes**		**Yes**		
c. Were all samples having analytes detected in amounts exceeding the calibration range diluted and reanalyzed?		**Yes**		**Yes**		
d. Were all samples extracted within holding times and analyzed within 40 days of extracting?	Analysis within 40 days of extraction	**Yes**		**Yes**		
e. Did the samples require additional cleanup steps? (i.e. acid treatment, florisil, GPC, and sulfur treatment)	Florisil, GPC, Acid, Sulfur Treatments	**Yes**		**Yes**		Acid, Sulfur treatments.
f. Was there a hexane injection performed prior to sample analysis?		**Yes**		**Yes**		
g. Was there a priming standard injected prior to sample analysis?		**Yes**		**Yes**		
9. RECORDS AND REPORTING						
a. Is the Analytical Run, Prep Batch and Extraction sheets, Summary sheets, Sequence file, analytical data, and method transfer to PDF format?		**Yes**		**Yes**		
b. Are all chromatograms stamped with initials and date?		**Yes**		**Yes**		
c. Are reported results whose amounts exceeded the acceptance criteria flagged with an appropriate qualifier in LIMS and, if needed, a NCR completed?		**Yes**		**Yes**		
d. Do all values, dilution factors and qualifiers listed on the raw reports match the LIMS data?		**Yes**		**Yes**		
e. Is the ICAL method referenced on the Raw Data?		**Yes**		**Yes**		

Additional Comments:

Project _____ Notebook No. _____

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Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
PP 3036	PCB Lin PT 1	Hexane	24-May-10 SRT 24-Nov-10	PP3024 10 ug/ml	0.030	10.0	0.03 ug/ml
PP 3037	PCB Lin PT 2	Lot#H37E06		PP3024 10 ug/ml	0.050	10.0	0.05 ug/ml
PP 3038	PCB Lin PT 3			PP3024 10 ug/ml	0.200	10.0	0.20 ug/ml
PP 3039	PCB Lin PT 4			PP3024 10 ug/ml	0.500	10.0	0.50 ug/ml
PP 3040	PCB Lin PT 5			PP3024 10 ug/ml	1.000	10.0	1.00 ug/ml
PP 3041	PCB Lin PT 6			PP3024 10 ug/ml	1.200	10.0	1.20 ug/ml
PP 3042	CF 1232			PP3025 10 ug/ml	0.500	10.0	0.5 ug/ml
PP 3043	CF 1242			PP3026 10 ug/ml	0.500	10.0	0.5 ug/ml
PP 3044	CF 1248			PP3027 10 ug/ml	0.500	10.0	0.5 ug/ml
PP 3045	CF 1254			PP3028 10 ug/ml	0.500	10.0	0.5 ug/ml
PP 3046	CF 1262			PP3029 10 ug/ml	0.500	10.0	0.5 ug/ml
PP 3047	1016/1260 ICV			PP3030 10 ug/ml	0.500	10.0	0.5 ug/ml
PP 3048	1232 ICV			PP3031 10 ug/ml	0.500	10.0	0.5 ug/ml
PP 3049	1242 ICV			PP3032 10 ug/ml	0.500	10.0	0.5 ug/ml
PP 3050	1248 ICV			PP3033 10 ug/ml	0.500	10.0	0.5 ug/ml
PP 3051	1254 ICV			PP3034 10 ug/ml	0.500	10.0	0.5 ug/ml
PP 3052	1262 ICV			PP3035 10 ug/ml	0.500	10.0	0.5 ug/ml

SRT 5-24-10

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
PP 3053	Tox/Chlor Spike	Acetone Lot#H12E11	03-Jun-10 SRT 28-Jul-10	S2093B 1000 ug/ml S2048A 1000 ug/ml	0.500 0.500	50.0 50.0	10.0 ug/ml 10.0 ug/ml

SRT 6-03-10

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
PP 3057	1254 Lin PT 1	Hexane	10-Jun-10 SRT 24-Nov-10	PP3028 10 ug/ml	0.030	10.0	0.03 ug/ml
PP 3058	1254 Lin Pt 2	Lot#H37E06		PP3028 10 ug/ml	0.050	10.0	0.05 ug/ml
PP 3059	1254 Lin Pt 3			PP3028 10 ug/ml	0.200	10.0	0.20 ug/ml
PP 3060	1254 Lin Pt 4			PP3028 10 ug/ml	0.500	10.0	0.50 ug/ml
PP 3061	1254 Lin PT 5			PP3028 10 ug/ml	1.000	10.0	1.00 ug/ml
PP 3062	1254 Lin Pt 6			PP3028 10 ug/ml	1.200	10.0	1.20 ug/ml
PP 3063	1254 ICV			PP3034 10 ug/ml	0.500	10.0	0.50 ug/ml
PP 3064	E-Val		10-Jun-10 SRT 10-Dec-10	S2213A 200 ug/ml	0.020	50.0	0.08 ug/ml

SRT 6-10-10

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
PP 3065	1242 CCV	Hexane Lot#H37E06	18-Jun-10 SRT 24-Nov-10	PP3026 10 ug/ml	0.500	10.0	0.5 ug/ml

SRT 6-18-10

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Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration			Standard Volume (ml)	Final Volume (ml)	Final Concentration	
PP 3066	1221 Int Std	Hexane	29-Jun-10 SRT 24-Nov-10	S2171	1000	ug/ml	0.100	10.0	10.0	ug/ml
		Lot#H37E06		S2072C	200	ug/ml	0.025	10.0	0.5	ug/ml
PP 3067	1221 Second Source			S2211	1000	ug/ml	0.100	10.0	10.0	ug/ml
				S2072C	200	ug/ml	0.025	10.0	0.5	ug/ml
PP 3068	CF 1221			PP 3066	10	ug/ml	0.500	10.0	0.5	ug/ml
PP 3069	1221 ICV			PP 3067	10	ug/ml	0.500	10.0	0.5	ug/ml
PP 3070	1268 Int STD			S2170	1000	ug/ml	0.100	10.0	10.0	ug/ml
				S2072C	200	ug/ml	0.025	10.0	0.5	ug/ml
PP 3071	1268 Second Source			S2215	1000	ug/ml	0.100	10.0	10.0	ug/ml
				S2072C	200	ug/ml	0.025	10.0	0.5	ug/ml
PP 3072	CF 1268			PP 3070	10	ug/ml	0.500	10.0	0.5	ug/ml
PP 3073	1268 ICV			PP3071	10	ug/ml	0.500	10.0	0.5	ug/ml

SRT 6-29-10

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration			Standard Volume (ml)	Final Volume (ml)	Final Concentration	
PP 3074	1262 Lin PT 1	Hexane	02-Jul-10 SRT 24-Nov-10	PP3029	10	ug/ml	0.030	10.0	0.03	ug/ml
PP 3075	1262 Lin PT 2	Lot#H37E06		PP3029	10	ug/ml	0.050	10.0	0.05	ug/ml
PP 3076	1262 Lin PT 3			PP3029	10	ug/ml	0.200	10.0	0.20	ug/ml
PP 3077	1262 Lin PT 4			PP3029	10	ug/ml	0.500	10.0	0.50	ug/ml
PP 3078	1262 Lin PT 5			PP3029	10	ug/ml	1.000	10.0	1.00	ug/ml
PP 3079	1262 Lin PT 6			PP3029	10	ug/ml	1.200	10.0	1.20	ug/ml
PP 3080	1262 ICV			PP3035	10	ug/ml	0.500	10.0	0.50	ug/ml

SRT 7-2-10

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration			Standard Volume (ml)	Final Volume (ml)	Final Concentration	
PP 3081	PCB Spike	Acetone JT Baker lot H12E11	21-Jul-10 JJY 29-Oct-10	S2043B	1000	ug/mL	0.500	50.0	10.0	ug/ml

JJY 7/29/10

JJY 7/29/2010

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Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration			Standard Volume (ml)	Final Volume (ml)	Final Concentration	
PP 3082	EVAL	Hexane JT Baker lot H47E47	29-Jul-10 JJY 10-Dec-10	S2213A						
				Endrin	100	ug/mL	0.020	50.0	0.040	ug/ml
				DDT	200	ug/mL	0.020	50.0	0.080	ug/ml
PP 3083	Pest ICAL Stock		29-Jul-10 JJY 29-Jan-11	S2144	200	ug/mL	0.100	10.0	2.0	ug/ml
				S2130B	200	ug/mL	0.063	10.0	1.3	ug/ml
PP 3084	Pest ICV Stock			S2145	200	ug/mL	0.100	10.0	2.0	ug/ml
				S230B	200	ug/mL	0.063	10.0	1.3	ug/ml
PP 3085	Tox/Chlor Stock			S2093A	1000	ug/mL	0.100	10.0	10.00	ug/ml
				S2204	1000	ug/mL	0.100	10.0	10.00	ug/ml
				S2130B	200	ug/mL	0.030	10.0	0.60	ug/ml
PP 3086	Tox/Chlor ICV Stock			S2206	1000	ug/mL	0.100	10.0	10.00	ug/ml
				S2205	1000	ug/mL	0.100	10.0	10.00	ug/ml
				S2130B	200	ug/mL	0.030	10.0	0.60	ug/ml
PP 3087	PEST ICAL 1			PP 3083	2	ug/mL	0.005	10.0	0.001	ug/ml
PP 3088	PEST ICAL 2			PP 3083	2	ug/mL	0.025	10.0	0.005	ug/ml
PP 3089	PEST ICAL 3			PP 3083	2	ug/mL	0.050	10.0	0.010	ug/ml
PP 3090	PEST ICAL 4			PP 3083	2	ug/mL	0.100	10.0	0.020	ug/ml
PP 3091	PEST ICAL 5			PP 3083	2	ug/mL	0.200	10.0	0.040	ug/ml
PP 3092	PEST ICAL 6			PP 3083	2	ug/mL	0.250	10.0	0.050	ug/ml
PP 3093	PEST ICAL 7			PP 3083	2	ug/mL	0.350	10.0	0.070	ug/ml
PP 3094	PEST ICV			PP 3084	2	ug/mL	0.200	10.0	0.040	ug/ml
PP 3095	Tox/Chlor 1			PP 3085	10	ug/mL	0.030	10.0	0.03	ug/ml
PP 3096	Tox/Chlor 2			PP 3085	10	ug/mL	0.050	10.0	0.05	ug/ml
PP 3097	Tox/Chlor 3			PP 3085	10	ug/mL	0.100	10.0	0.10	ug/ml
PP 3098	Tox/Chlor 4			PP 3085	10	ug/mL	0.250	10.0	0.25	ug/ml
PP 3099	Tox/Chlor 5			PP 3085	10	ug/mL	0.400	10.0	0.40	ug/ml
PP 3100	Tox/Chlor 6			PP 3085	10	ug/mL	0.600	10.0	0.60	ug/ml
PP 3101	Tox/Chlor ICV			PP 3086	10	ug/mL	0.250	10.0	0.25	ug/ml
PP 3102	Tox/Chlor Spike	Acetone JT Baker lot H12E11		S2206	1000	ug/mL	0.500	50.0	10.0	ug/ml
				S2205	1000	ug/mL	0.500	50.0	10.0	ug/ml
PP 3103	PEST CCV	Hexane JT Baker lot H47E47		PP 3083	2	ug/mL	0.200	10.0	0.040	ug/ml
PP 3104	Tox/Chlor CCV			PP 3085	10	ug/mL	0.250	10.0	0.250	ug/ml

JJY 7/29/2010

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration			Standard Volume (ml)	Final Volume (ml)	Final Concentration	
PP 3105	Pest/PCB Surrogate	Acetone JT Baker lot H12E11	20-Aug-10 JJY 24-Nov-10	S2130A	200	ug/mL	0.250	100.0	0.500	ug/ml

JJY 8/20/2010

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Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
PP 3106	Pest Spike	Acetone JT Baker lot H12E11	26-Aug-10 JJY 29-Jan-11	S2144 200 ug/mL	0.200	50.0	0.800 ug/ml

JJY 8/26/10

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
PP 3107	1242 ICAL 1	Hexane JT Baker lot H47E47	07-Sep-10 JJY 24-Nov-10	PP 3026 10 ug/mL	0.030	10.0	0.03 ug/ml
PP 3108	1242 ICAL 2		07-Sep-10 JJY 24-Nov-10	PP 3026 10 ug/mL	0.050	10.0	0.05 ug/ml
PP 3109	1242 ICAL 3		07-Sep-10 JJY 24-Nov-10	PP 3026 10 ug/mL	0.200	10.0	0.20 ug/ml
PP 3110	1242 ICAL 4		07-Sep-10 JJY 24-Nov-10	PP 3026 10 ug/mL	0.500	10.0	0.50 ug/ml
PP 3111	1242 ICAL 5		07-Sep-10 JJY 24-Nov-10	PP 3026 10 ug/mL	1.000	10.0	1.00 ug/ml
PP 3112	1242 ICAL 6		07-Sep-10 JJY 24-Nov-10	PP 3026 10 ug/mL	1.200	10.0	1.20 ug/ml
PP 3113	1242 ICV		07-Sep-10 JJY 24-Nov-10	PP 3032 10 ug/mL	0.500	10.0	0.50 ug/ml

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
PP 3114	1248 ICAL 1	Hexane JT Baker lot H47E47	21-Sep-10 JJY 24-Nov-10	PP 3027 10 ug/mL	0.030	10.0	0.03 ug/ml
PP 3115	1248 ICAL 2		21-Sep-10 JJY 24-Nov-10	PP 3027 10 ug/mL	0.050	10.0	0.05 ug/ml
PP 3116	1248 ICAL 3		21-Sep-10 JJY 24-Nov-10	PP 3027 10 ug/mL	0.200	10.0	0.20 ug/ml
PP 3117	1248 ICAL 4		21-Sep-10 JJY 24-Nov-10	PP 3027 10 ug/mL	0.500	10.0	0.50 ug/ml
PP 3118	1248 ICAL 5		21-Sep-10 JJY 24-Nov-10	PP 3027 10 ug/mL	1.000	10.0	1.00 ug/ml
PP 3119	1248 ICAL 6		21-Sep-10 JJY 24-Nov-10	PP 3027 10 ug/mL	1.200	10.0	1.20 ug/ml
PP 3120	1248 ICV		21-Sep-10 JJY 24-Nov-10	PP 3033 10 ug/mL	0.500	10.0	0.50 ug/ml

JJY 9/24/10

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
PP 3121	Pest/PCB Surrogate	Acetone JT Baker lot H30E21	29-Sep-10 JJY 24-Nov-10	S2130A 200 ug/mL	0.250	100.0	0.500 ug/ml

JJY 9/29/10

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
PP 3122	PCB Spike	Acetone JT Baker lot H30E21	14-Oct-10 JJY 14-Apr-11	S2043A 1000 ug/mL	0.500	50.0	10.00 ug/ml

JJY 10/14/10

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
PP 3123	1232 ICAL 1	Hexane JT Baker lot H51E55	19-Oct-10 JJY 24-Nov-10	PP 3025 10 ug/mL	0.030	10.0	0.03 ug/ml
PP 3124	1232 ICAL 2		19-Oct-10 JJY 24-Nov-10	PP 3025 10 ug/mL	0.050	10.0	0.05 ug/ml
PP 3125	1232 ICAL 3		19-Oct-10 JJY 24-Nov-10	PP 3025 10 ug/mL	0.200	10.0	0.20 ug/ml
PP 3126	1232 ICAL 4		19-Oct-10 JJY 24-Nov-10	PP 3025 10 ug/mL	0.500	10.0	0.50 ug/ml
PP 3127	1232 ICAL 5		19-Oct-10 JJY 24-Nov-10	PP 3025 10 ug/mL	1.000	10.0	1.00 ug/ml
PP 3128	1232 ICAL 6		19-Oct-10 JJY 24-Nov-10	PP 3025 10 ug/mL	1.200	10.0	1.20 ug/ml
PP 3129	1232 ICV		19-Oct-10 JJY 24-Nov-10	PP 3031 10 ug/mL	0.500	10.0	0.50 ug/ml

JJY 10/19/10

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Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
PP 3130	Pest MRL	Hexane JT Baker lot H51E55	20-Oct-10 JJY 29-Jan-11	PP 3083 2 ug/mL	0.010	10.0	0.002 ug/ml

JJY 10/20/2010

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
PP 3131	Pest/PCB Surrogate	Acetone JT Baker lot H30E21	22-Oct-10 JJY 22-Apr-11	S2257A 200 ug/mL	0.250	100.0	0.500 ug/ml

JJY 10/22/2010

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
PP 3132	1262 ICAL 1	Hexane JT Baker lot H51E55	03-Nov-10 JJY 24-Nov-10	PP 3029 10 ug/mL	0.030	10.0	0.03 ug/ml
PP 3133	1262 ICAL 2		03-Nov-10 JJY 24-Nov-10	PP 3029 10 ug/mL	0.050	10.0	0.05 ug/ml
PP 3134	1262 ICAL 3		03-Nov-10 JJY 24-Nov-10	PP 3029 10 ug/mL	0.200	10.0	0.20 ug/ml
PP 3135	1262 ICAL 4		03-Nov-10 JJY 24-Nov-10	PP 3029 10 ug/mL	0.500	10.0	0.50 ug/ml
PP 3136	1262 ICAL 5		03-Nov-10 JJY 24-Nov-10	PP 3029 10 ug/mL	1.000	10.0	1.00 ug/ml
PP 3137	1262 ICAL 6		03-Nov-10 JJY 24-Nov-10	PP 3029 10 ug/mL	1.200	10.0	1.20 ug/ml
PP 3138	1262 ICV		03-Nov-10 JJY 24-Nov-10	PP 3035 10 ug/mL	0.500	10.0	0.50 ug/ml

JJY 11/3/10

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
PP 3139	1221 ICAL 1	Hexane JT Baker lot H51E55	04-Nov-10 JJY 24-Nov-10	PP 3066 10 ug/mL	0.030	10.0	0.03 ug/ml
PP 3140	1221 ICAL 2		04-Nov-10 JJY 24-Nov-10	PP 3066 10 ug/mL	0.050	10.0	0.05 ug/ml
PP 3141	1221 ICAL 3		04-Nov-10 JJY 24-Nov-10	PP 3066 10 ug/mL	0.200	10.0	0.20 ug/ml
PP 3142	1221 ICAL 4		04-Nov-10 JJY 24-Nov-10	PP 3066 10 ug/mL	0.500	10.0	0.50 ug/ml
PP 3143	1221 ICAL 5		04-Nov-10 JJY 24-Nov-10	PP 3066 10 ug/mL	1.000	10.0	1.00 ug/ml
PP 3144	1221 ICAL 6		04-Nov-10 JJY 24-Nov-10	PP 3066 10 ug/mL	1.200	10.0	1.20 ug/ml
PP 3145	1221 ICV		04-Nov-10 JJY 24-Nov-10	PP 3067 10 ug/mL	0.500	10.0	0.50 ug/ml

JJY 11/4/10

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
PP 3146	1016/1260 Stock	Hexane JT Baker lot H51E55	03-Dec-10 JJY 03-Jun-11	S2294 1000 ug/mL	0.100	10.0	10.00 ug/ml
				S2257B 200 ug/mL	0.025	10.0	0.50 ug/ml
PP 3147	1016/1260 2nd Srce		03-Dec-10 JJY 03-Jun-11	S2271A 1000 ug/mL	0.100	10.0	10.00 ug/ml
				S2257B 200 ug/mL	0.025	10.0	0.50 ug/ml
PP 3148	1016/1260 Prime		03-Dec-10 JJY 03-Jun-11	PP 3147 10 ug/mL	1.200	10.0	1.20 ug/ml
PP 3149	PCB CCV		03-Dec-10 JJY 03-Jun-11	PP 3146 10 ug/mL	0.500	10.0	0.50 ug/ml
PP 3150	PCB ICAL 1		03-Dec-10 JJY 03-Jun-11	PP 3146 10 ug/mL	0.030	10.0	0.03 ug/ml
PP 3151	PCB ICAL 2		03-Dec-10 JJY 03-Jun-11	PP 3146 10 ug/mL	0.050	10.0	0.05 ug/ml
PP 3152	PCB ICAL 3		03-Dec-10 JJY 03-Jun-11	PP 3146 10 ug/mL	0.200	10.0	0.20 ug/ml
PP 3153	PCB ICAL 4		03-Dec-10 JJY 03-Jun-11	PP 3146 10 ug/mL	0.500	10.0	0.50 ug/ml
PP 3154	PCB ICAL 5		03-Dec-10 JJY 03-Jun-11	PP 3146 10 ug/mL	1.000	10.0	1.00 ug/ml
PP 3155	PCB ICAL 6		03-Dec-10 JJY 03-Jun-11	PP 3146 10 ug/mL	1.200	10.0	1.20 ug/ml
PP 3156	PCB ICV		03-Dec-10 JJY 03-Jun-11	PP 3147 10 ug/mL	0.500	10.0	0.50 ug/ml

JJY 12/3/10

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METALS
CLP FORMS
DOCUMENTS

CT LABORATORIES
delivering more than data from your environmental analyses

1

INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-001-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.4	Lab Sample ID:	870191
Analytical Method:	EPA 7471A	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72327	Analysis Date/Time	12/08/2010 14:22
Analytical Prep Batch #:	35687	Prep. Date/Time:	12/07/2010 15:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-97-6	Mercury	0.046		0.0024	0.0024	0.0080	0.0080

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-001-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.4	Lab Sample ID:	870191
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72204	Analysis Date/Time	12/03/2010 16:02
Analytical Prep Batch #:	35624	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-09-7	Potassium	633		11	11	37	37
7440-23-5	Sodium	46.2		4.1	4.1	13	13

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-001-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.4	Lab Sample ID:	870191
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72203	Analysis Date/Time	12/09/2010 19:23
Analytical Prep Batch #:	35624	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-89-6	Iron	23400		0.61	0.61	2.0	2.0
7439-95-4	Magnesium	2700		0.24	0.24	0.81	0.81
7439-96-5	Manganese	849		0.033	0.041	0.10	0.11
7440-28-0	Thallium	0.88		0.081	0.081	0.28	0.28

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Sample Description

DLASS-001-0001-SO

INORGANIC ANALYSIS DATA SHEET

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.4	Lab Sample ID:	870191
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72203	Analysis Date/Time	12/03/2010 20:12
Analytical Prep Batch #:	35624	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers		DL	LOD	LOQ	RL
7429-90-5	Aluminum	10400		B	0.081	0.081	0.24	0.24
7440-36-0	Antimony	1400			0.16	0.16	0.55	0.55
7440-38-2	Arsenic	14.8			0.26	0.26	0.91	0.91
7440-39-3	Barium	78.3		B	0.016	0.016	0.055	0.055
7440-41-7	Beryllium	0.60			0.0081	0.0081	0.024	0.024
7440-43-9	Cadmium	0.20			0.012	0.016	0.043	0.043
7440-70-2	Calcium	7470		B	0.12	0.30	1.0	1.0
7440-47-3	Chromium	35.8		B	0.039	0.039	0.13	0.13
7440-48-4	Cobalt	7.8		B	0.030	0.030	0.10	0.10
7440-50-8	Copper	12.4			0.12	0.12	0.41	0.41
7439-92-1	Lead	39.5			0.081	0.081	0.28	0.28
7440-02-0	Nickel	16.1		B	0.037	0.037	0.12	0.12
7782-49-2	Selenium	0.14	U	B,V	0.14	0.14	0.85	0.85
7440-22-4	Silver	0.035	U	V	0.035	0.035	0.11	0.11
7440-62-2	Vanadium	16.7			0.022	0.022	0.069	0.069
7440-66-6	Zinc	69.1			0.081	0.081	0.24	0.24

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-002-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.1	Lab Sample ID:	870189
Analytical Method:	EPA 7471A	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72327	Analysis Date/Time	12/08/2010 14:05
Analytical Prep Batch #:	35687	Prep. Date/Time:	12/07/2010 15:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-97-6	Mercury	0.11		0.0024	0.0024	0.0081	0.0081

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-002-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.1	Lab Sample ID:	870189
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72204	Analysis Date/Time	12/03/2010 15:40
Analytical Prep Batch #:	35624	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-09-7	Potassium	948		11	11	37	37
7440-23-5	Sodium	47.9		4.1	4.1	13	13

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-002-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.1	Lab Sample ID:	870189
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72203	Analysis Date/Time	12/09/2010 18:45
Analytical Prep Batch #:	35624	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-89-6	Iron	29800		0.61	0.61	2.0	2.0
7439-95-4	Magnesium	2290		0.24	0.24	0.82	0.82
7439-96-5	Manganese	1510		0.033	0.041	0.10	0.11
7440-28-0	Thallium	0.69		0.082	0.082	0.29	0.29

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-002-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.1	Lab Sample ID:	870189
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72203	Analysis Date/Time	12/03/2010 19:12
Analytical Prep Batch #:	35624	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7429-90-5	Aluminum	10900	B	0.082	0.082	0.24	0.24
7440-36-0	Antimony	99.4		0.16	0.16	0.55	0.55
7440-38-2	Arsenic	10.1		0.27	0.27	0.92	0.92
7440-39-3	Barium	121	B	0.016	0.016	0.055	0.055
7440-41-7	Beryllium	0.57		0.0082	0.0082	0.024	0.024
7440-43-9	Cadmium	0.29	M,Y	0.012	0.016	0.043	0.043
7440-70-2	Calcium	3740	B	0.12	0.31	1.0	1.0
7440-47-3	Chromium	110	B	0.039	0.039	0.13	0.13
7440-48-4	Cobalt	9.1	M,B	0.031	0.031	0.10	0.10
7440-50-8	Copper	10.3	M	0.12	0.12	0.41	0.41
7439-92-1	Lead	48.6	M	0.082	0.082	0.29	0.29
7440-02-0	Nickel	12.8	M	0.037	0.037	0.12	0.12
7782-49-2	Selenium	1.7		0.14	0.14	0.86	0.86
7440-22-4	Silver	0.15		0.035	0.035	0.11	0.11
7440-62-2	Vanadium	21.5		0.022	0.022	0.069	0.069
7440-66-6	Zinc	58.6	M	0.082	0.082	0.24	0.24

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-002-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.5	Lab Sample ID:	870212
Analytical Method:	EPA 7471A	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72327	Analysis Date/Time	12/08/2010 14:46
Analytical Prep Batch #:	35687	Prep. Date/Time:	12/07/2010 15:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-97-6	Mercury	0.045		0.0024	0.0024	0.0080	0.0080

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-002-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.5	Lab Sample ID:	870212
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72204	Analysis Date/Time	12/03/2010 16:34
Analytical Prep Batch #:	35624	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-09-7	Potassium	888		11	11	37	37
7440-23-5	Sodium	46.2		4.1	4.1	13	13

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-002-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.5	Lab Sample ID:	870212
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72203	Analysis Date/Time	12/09/2010 20:43
Analytical Prep Batch #:	35624	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-95-4	Magnesium	1580		0.24	0.24	0.81	0.81
7440-28-0	Thallium	0.32		0.081	0.081	0.28	0.28

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-002-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.5	Lab Sample ID:	870212
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72203	Analysis Date/Time	12/03/2010 21:36
Analytical Prep Batch #:	35624	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers		DL	LOD	LOQ	RL
7429-90-5	Aluminum	10600		B	0.081	0.081	0.24	0.24
7440-36-0	Antimony	113			0.16	0.16	0.55	0.55
7440-38-2	Arsenic	10.2			0.26	0.26	0.91	0.91
7440-39-3	Barium	103		B	0.016	0.016	0.055	0.055
7440-41-7	Beryllium	0.57		B	0.0081	0.0081	0.024	0.024
7440-43-9	Cadmium	0.19			0.012	0.016	0.043	0.043
7440-70-2	Calcium	3720		B	0.12	0.30	1.0	1.0
7440-47-3	Chromium	103		B	0.039	0.039	0.13	0.13
7440-48-4	Cobalt	8.4		B	0.030	0.030	0.099	0.099
7440-50-8	Copper	10.9			0.12	0.12	0.41	0.41
7439-89-6	Iron	17600		B	0.61	0.61	2.0	2.0
7439-92-1	Lead	32.5			0.081	0.081	0.28	0.28
7439-96-5	Manganese	1290		B	0.032	0.041	0.10	0.11
7440-02-0	Nickel	12.4		B	0.037	0.037	0.12	0.12
7782-49-2	Selenium	0.14	U	V,B	0.14	0.14	0.85	0.85
7440-22-4	Silver	0.035	U	V	0.035	0.035	0.11	0.11
7440-62-2	Vanadium	21.3			0.022	0.022	0.069	0.069
7440-66-6	Zinc	49.5			0.081	0.081	0.24	0.24

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-004-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	97.1	Lab Sample ID:	869556
Analytical Method:	EPA 7471A	Date Received:	11/10/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72326	Analysis Date/Time	12/08/2010 13:57
Analytical Prep Batch #:	35686	Prep. Date/Time:	12/07/2010 15:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-97-6	Mercury	0.037		0.0025	0.0025	0.0081	0.0081

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-004-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	97.1	Lab Sample ID:	869556
Analytical Method:	EPA 6010C	Date Received:	11/10/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72202	Analysis Date/Time	12/03/2010 17:19
Analytical Prep Batch #:	35623	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-09-7	Potassium	937		11	11	37	37
7440-23-5	Sodium	64.6		4.1	4.1	13	13

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-004-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	97.1	Lab Sample ID:	869556
Analytical Method:	EPA 6010C	Date Received:	11/10/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72201	Analysis Date/Time	12/09/2010 22:52
Analytical Prep Batch #:	35623	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-95-4	Magnesium	3830		0.25	0.25	0.82	0.82
7439-96-5	Manganese	1190	B	0.033	0.041	0.10	0.11
7440-28-0	Thallium	0.94		0.082	0.082	0.29	0.29

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-004-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	97.1	Lab Sample ID:	869556
Analytical Method:	EPA 6010C	Date Received:	11/10/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72201	Analysis Date/Time	12/03/2010 23:49
Analytical Prep Batch #:	35623	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers		DL	LOD	LOQ	RL
7429-90-5	Aluminum	10800		B	0.082	0.082	0.25	0.25
7440-36-0	Antimony	176			0.16	0.16	0.56	0.56
7440-38-2	Arsenic	11.2			0.27	0.27	0.93	0.93
7440-39-3	Barium	103		B	0.016	0.016	0.056	0.056
7440-41-7	Beryllium	0.71		B	0.0082	0.0082	0.025	0.025
7440-43-9	Cadmium	0.13			0.012	0.016	0.043	0.043
7440-70-2	Calcium	13400		B	0.12	0.31	1.0	1.0
7440-47-3	Chromium	18.2		B	0.039	0.039	0.13	0.13
7440-48-4	Cobalt	8.1		B	0.031	0.031	0.10	0.10
7440-50-8	Copper	10.5		B	0.12	0.12	0.41	0.41
7439-89-6	Iron	19100		B	0.62	0.62	2.1	2.1
7439-92-1	Lead	19.2		B	0.082	0.082	0.29	0.29
7440-02-0	Nickel	16.0		B	0.037	0.037	0.13	0.13
7782-49-2	Selenium	0.35	J	V	0.14	0.14	0.87	0.87
7440-22-4	Silver	0.035	U	V	0.035	0.035	0.12	0.12
7440-62-2	Vanadium	17.5		B	0.023	0.023	0.070	0.070
7440-66-6	Zinc	55.6			0.082	0.082	0.25	0.25

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-005-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	97.3	Lab Sample ID:	870200
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71911	Analysis Date/Time	11/22/2010 07:46
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-09-7	Potassium	745		11	11	36	37
7440-23-5	Sodium	91.2		4.1	4.0	13	13

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-005-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	97.3	Lab Sample ID:	870200
Analytical Method:	EPA 7471A	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72018	Analysis Date/Time	11/24/2010 09:44
Analytical Prep Batch #:	35531	Prep. Date/Time:	11/23/2010 15:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-97-6	Mercury	0.089		0.0025	0.0025	0.0081	0.0081

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-005-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	97.3	Lab Sample ID:	870200
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	5.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71910	Analysis Date/Time	11/29/2010 15:59
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-70-2	Calcium	18500		0.31	0.77	2.6	2.6
7440-47-3	Chromium	39.1		0.098	0.098	0.32	0.32
7440-48-4	Cobalt	11.3		0.077	0.077	0.25	0.25
7439-95-4	Magnesium	4460		0.62	0.62	2.1	2.1
7440-02-0	Nickel	30.8		0.092	0.092	0.31	0.31
7440-28-0	Thallium	0.80		0.21	0.21	0.72	0.72

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-005-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	97.3	Lab Sample ID:	870200
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71910	Analysis Date/Time	11/19/2010 20:18
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7429-90-5	Aluminum	9660		0.082	0.082	0.25	0.25
7440-36-0	Antimony	550		0.16	0.16	0.55	0.55
7440-38-2	Arsenic	11.9		0.27	0.27	0.92	0.92
7440-39-3	Barium	131	B	0.016	0.016	0.055	0.055
7440-41-7	Beryllium	0.99		0.0082	0.0082	0.025	0.025
7440-43-9	Cadmium	1.1		0.012	0.016	0.043	0.043
7440-50-8	Copper	17.7	B	0.12	0.12	0.41	0.41
7439-89-6	Iron	23900		0.62	0.62	2.1	2.1
7439-92-1	Lead	132		0.082	0.082	0.29	0.29
7439-96-5	Manganese	1290		0.033	0.041	0.10	0.11
7782-49-2	Selenium	0.65	J	0.14	0.14	0.86	0.86
7440-22-4	Silver	0.20		0.035	0.035	0.12	0.12
7440-62-2	Vanadium	17.4		0.023	0.023	0.070	0.070
7440-66-6	Zinc	75.5		0.082	0.082	0.25	0.25

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-006-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.5	Lab Sample ID:	870215
Analytical Method:	EPA 7471A	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72327	Analysis Date/Time	12/08/2010 14:52
Analytical Prep Batch #:	35687	Prep. Date/Time:	12/07/2010 15:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-97-6	Mercury	0.048		0.0024	0.0024	0.0080	0.0080

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-006-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.5	Lab Sample ID:	870215
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72204	Analysis Date/Time	12/03/2010 16:42
Analytical Prep Batch #:	35624	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-09-7	Potassium	1070		11	11	37	37
7440-23-5	Sodium	96.2		4.1	4.1	13	13

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-006-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.5	Lab Sample ID:	870215
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72203	Analysis Date/Time	12/09/2010 21:21
Analytical Prep Batch #:	35624	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-95-4	Magnesium	3420		0.24	0.24	0.81	0.81
7782-49-2	Selenium	0.97		0.14	0.14	0.85	0.85
7440-28-0	Thallium	0.96		0.081	0.081	0.28	0.28

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-006-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.5	Lab Sample ID:	870215
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72203	Analysis Date/Time	12/03/2010 21:53
Analytical Prep Batch #:	35624	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7429-90-5	Aluminum	10800	B	0.081	0.081	0.24	0.24
7440-36-0	Antimony	364		0.16	0.16	0.55	0.55
7440-38-2	Arsenic	10.5		0.26	0.26	0.91	0.91
7440-39-3	Barium	111	B	0.016	0.016	0.055	0.055
7440-41-7	Beryllium	0.79	B	0.0081	0.0081	0.024	0.024
7440-43-9	Cadmium	0.26		0.012	0.016	0.043	0.043
7440-70-2	Calcium	13100	B	0.12	0.30	1.0	1.0
7440-47-3	Chromium	92.9	B	0.039	0.039	0.13	0.13
7440-48-4	Cobalt	8.2	B	0.030	0.030	0.099	0.099
7440-50-8	Copper	11.0		0.12	0.12	0.41	0.41
7439-89-6	Iron	20300	B	0.61	0.61	2.0	2.0
7439-92-1	Lead	30.2		0.081	0.081	0.28	0.28
7439-96-5	Manganese	1370	B	0.032	0.041	0.10	0.11
7440-02-0	Nickel	18.4	B	0.037	0.037	0.12	0.12
7440-22-4	Silver	0.18		0.035	0.035	0.11	0.11
7440-62-2	Vanadium	18.5		0.022	0.022	0.069	0.069
7440-66-6	Zinc	50.8		0.081	0.081	0.24	0.24

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-007-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.4	Lab Sample ID:	870209
Analytical Method:	EPA 7471A	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72327	Analysis Date/Time	12/08/2010 14:41
Analytical Prep Batch #:	35687	Prep. Date/Time:	12/07/2010 15:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-97-6	Mercury	0.061		0.0024	0.0024	0.0080	0.0080

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-007-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.4	Lab Sample ID:	870209
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72204	Analysis Date/Time	12/03/2010 16:27
Analytical Prep Batch #:	35624	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-09-7	Potassium	953		11	11	37	37
7440-23-5	Sodium	79.5		4.1	4.1	13	13

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-007-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.4	Lab Sample ID:	870209
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72203	Analysis Date/Time	12/09/2010 20:27
Analytical Prep Batch #:	35624	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-95-4	Magnesium	2560		0.24	0.24	0.81	0.81
7782-49-2	Selenium	0.38	J V	0.14	0.14	0.85	0.85
7440-28-0	Thallium	1.2		0.081	0.081	0.28	0.28

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-007-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.4	Lab Sample ID:	870209
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72203	Analysis Date/Time	12/03/2010 21:19
Analytical Prep Batch #:	35624	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7429-90-5	Aluminum	11200	B	0.081	0.081	0.24	0.24
7440-36-0	Antimony	843		0.16	0.16	0.55	0.55
7440-38-2	Arsenic	15.5		0.26	0.26	0.91	0.91
7440-39-3	Barium	131	B	0.016	0.016	0.055	0.055
7440-41-7	Beryllium	0.80	B	0.0081	0.0081	0.024	0.024
7440-43-9	Cadmium	0.34		0.012	0.016	0.043	0.043
7440-70-2	Calcium	9960	B	0.12	0.30	1.0	1.0
7440-47-3	Chromium	119	B	0.039	0.039	0.13	0.13
7440-48-4	Cobalt	9.9	B	0.030	0.030	0.10	0.10
7440-50-8	Copper	14.0		0.12	0.12	0.41	0.41
7439-89-6	Iron	22800	B	0.61	0.61	2.0	2.0
7439-92-1	Lead	43.8		0.081	0.081	0.28	0.28
7439-96-5	Manganese	1490	B	0.033	0.041	0.10	0.11
7440-02-0	Nickel	25.4	B	0.037	0.037	0.12	0.12
7440-22-4	Silver	0.18		0.035	0.035	0.11	0.11
7440-62-2	Vanadium	20.9		0.022	0.022	0.069	0.069
7440-66-6	Zinc	78.3		0.081	0.081	0.24	0.24

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-008-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.1	Lab Sample ID:	870196
Analytical Method:	EPA 7471A	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72327	Analysis Date/Time	12/08/2010 14:31
Analytical Prep Batch #:	35687	Prep. Date/Time:	12/07/2010 15:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-97-6	Mercury	0.040		0.0024	0.0024	0.0081	0.0081

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-008-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.1	Lab Sample ID:	870196
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72204	Analysis Date/Time	12/03/2010 16:14
Analytical Prep Batch #:	35624	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-09-7	Potassium	1050		11	11	37	37
7440-23-5	Sodium	62.4		4.1	4.1	13	13

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-008-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.1	Lab Sample ID:	870196
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72203	Analysis Date/Time	12/09/2010 20:11
Analytical Prep Batch #:	35624	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-89-6	Iron	31700		0.61	0.61	2.0	2.0
7439-95-4	Magnesium	2910		0.24	0.24	0.82	0.82
7439-96-5	Manganese	1190		0.033	0.041	0.10	0.11
7782-49-2	Selenium	0.63	J V	0.14	0.14	0.86	0.86
7440-28-0	Thallium	0.72		0.082	0.082	0.29	0.29

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-008-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.1	Lab Sample ID:	870196
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72203	Analysis Date/Time	12/03/2010 20:41
Analytical Prep Batch #:	35624	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers		DL	LOD	LOQ	RL
7429-90-5	Aluminum	10300		B	0.082	0.082	0.24	0.24
7440-36-0	Antimony	10.7			0.16	0.16	0.55	0.55
7440-38-2	Arsenic	9.7			0.27	0.27	0.92	0.92
7440-39-3	Barium	95.8		B	0.016	0.016	0.055	0.055
7440-41-7	Beryllium	0.70			0.0082	0.0082	0.024	0.024
7440-43-9	Cadmium	0.23			0.012	0.016	0.043	0.043
7440-70-2	Calcium	7650		B	0.12	0.31	1.0	1.0
7440-47-3	Chromium	115		B	0.039	0.039	0.13	0.13
7440-48-4	Cobalt	9.3		B	0.031	0.031	0.10	0.10
7440-50-8	Copper	13.4			0.12	0.12	0.41	0.41
7439-92-1	Lead	20.7			0.082	0.082	0.29	0.29
7440-02-0	Nickel	21.3		B	0.037	0.037	0.12	0.12
7440-22-4	Silver	0.035	U	V	0.035	0.035	0.11	0.11
7440-62-2	Vanadium	19.4			0.022	0.022	0.069	0.069
7440-66-6	Zinc	64.2			0.082	0.082	0.24	0.24

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-009-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	97.2	Lab Sample ID:	869554
Analytical Method:	EPA 7471A	Date Received:	11/10/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72326	Analysis Date/Time	12/08/2010 13:54
Analytical Prep Batch #:	35686	Prep. Date/Time:	12/07/2010 15:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-97-6	Mercury	0.025		0.0025	0.0025	0.0081	0.0081

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-009-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	97.2	Lab Sample ID:	869554
Analytical Method:	EPA 6010C	Date Received:	11/10/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72202	Analysis Date/Time	12/03/2010 17:14
Analytical Prep Batch #:	35623	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-09-7	Potassium	941		11	11	37	37
7440-23-5	Sodium	50.2		4.1	4.1	13	13

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-009-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	97.2	Lab Sample ID:	869554
Analytical Method:	EPA 6010C	Date Received:	11/10/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72201	Analysis Date/Time	12/09/2010 22:42
Analytical Prep Batch #:	35623	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers		DL	LOD	LOQ	RL
7439-96-5	Manganese	1190		B	0.033	0.041	0.10	0.11
7440-28-0	Thallium	0.16	J	V	0.082	0.082	0.29	0.29

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-009-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	97.2	Lab Sample ID:	869554
Analytical Method:	EPA 6010C	Date Received:	11/10/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72201	Analysis Date/Time	12/03/2010 23:16
Analytical Prep Batch #:	35623	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers		DL	LOD	LOQ	RL
7429-90-5	Aluminum	17100		B	0.082	0.082	0.25	0.25
7440-36-0	Antimony	2.3			0.16	0.16	0.56	0.56
7440-38-2	Arsenic	13.1			0.27	0.27	0.93	0.93
7440-39-3	Barium	132		B	0.016	0.016	0.056	0.056
7440-41-7	Beryllium	0.97		B	0.0082	0.0082	0.025	0.025
7440-43-9	Cadmium	0.17			0.012	0.016	0.043	0.043
7440-70-2	Calcium	8690		B	0.12	0.31	1.0	1.0
7440-47-3	Chromium	72.5		B	0.039	0.039	0.13	0.13
7440-48-4	Cobalt	11.9		B	0.031	0.031	0.10	0.10
7440-50-8	Copper	14.5			0.12	0.12	0.41	0.41
7439-89-6	Iron	25200		B	0.62	0.62	2.1	2.1
7439-92-1	Lead	24.0		B	0.082	0.082	0.29	0.29
7439-95-4	Magnesium	3110		B	0.25	0.25	0.82	0.82
7440-02-0	Nickel	23.8		B	0.037	0.037	0.13	0.13
7782-49-2	Selenium	1.2			0.14	0.14	0.86	0.86
7440-22-4	Silver	0.035	U	V	0.035	0.035	0.12	0.12
7440-62-2	Vanadium	28.7		B	0.023	0.023	0.070	0.070
7440-66-6	Zinc	74.1			0.082	0.082	0.25	0.25

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-010-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	97.6	Lab Sample ID:	869552
Analytical Method:	EPA 7471A	Date Received:	11/10/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72326	Analysis Date/Time	12/08/2010 13:37
Analytical Prep Batch #:	35686	Prep. Date/Time:	12/07/2010 15:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-97-6	Mercury	0.035	Y	0.0025	0.0025	0.0081	0.0081

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-010-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	97.6	Lab Sample ID:	869552
Analytical Method:	EPA 6010C	Date Received:	11/10/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72202	Analysis Date/Time	12/03/2010 16:57
Analytical Prep Batch #:	35623	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-09-7	Potassium	917		11	11	37	37
7440-23-5	Sodium	43.0		4.1	4.1	13	13

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-010-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	97.6	Lab Sample ID:	869552
Analytical Method:	EPA 6010C	Date Received:	11/10/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72201	Analysis Date/Time	12/09/2010 21:42
Analytical Prep Batch #:	35623	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-96-5	Manganese	907	B	0.033	0.041	0.10	0.11
7440-28-0	Thallium	0.78		0.082	0.082	0.29	0.29

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-010-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	97.6	Lab Sample ID:	869552
Analytical Method:	EPA 6010C	Date Received:	11/10/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72201	Analysis Date/Time	12/03/2010 22:37
Analytical Prep Batch #:	35623	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7429-90-5	Aluminum	12900	B	0.082	0.082	0.25	0.25
7440-36-0	Antimony	1.4	M	0.16	0.16	0.55	0.55
7440-38-2	Arsenic	11.3	B,M	0.27	0.27	0.92	0.92
7440-39-3	Barium	96.8	B,M	0.016	0.016	0.055	0.055
7440-41-7	Beryllium	0.68	B	0.0082	0.0082	0.025	0.025
7440-43-9	Cadmium	0.26	B,M,Y	0.012	0.016	0.043	0.043
7440-70-2	Calcium	4840	B	0.12	0.31	1.0	1.0
7440-47-3	Chromium	58.9	B,M	0.039	0.039	0.13	0.13
7440-48-4	Cobalt	9.9	B	0.031	0.031	0.10	0.10
7440-50-8	Copper	13.4		0.12	0.12	0.41	0.41
7439-89-6	Iron	22700	B	0.61	0.61	2.0	2.0
7439-92-1	Lead	19.5	B	0.082	0.082	0.29	0.29
7439-95-4	Magnesium	2520		0.25	0.25	0.82	0.82
7440-02-0	Nickel	21.1	B	0.037	0.037	0.13	0.13
7782-49-2	Selenium	0.80	J Y,M,V	0.14	0.14	0.86	0.86
7440-22-4	Silver	0.035	U B,M,Y,	0.035	0.035	0.11	0.11
7440-62-2	Vanadium	23.1	B	0.023	0.023	0.070	0.070
7440-66-6	Zinc	63.0		0.082	0.082	0.25	0.25

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-011-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	95.6	Lab Sample ID:	870202
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71911	Analysis Date/Time	11/22/2010 08:03
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-09-7	Potassium	730		12	11	36	38
7440-23-5	Sodium	32.9		4.2	4.0	13	14

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-011-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	95.6	Lab Sample ID:	870202
Analytical Method:	EPA 7471A	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72018	Analysis Date/Time	11/24/2010 10:01
Analytical Prep Batch #:	35531	Prep. Date/Time:	11/23/2010 15:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-97-6	Mercury	0.036		0.0025	0.0025	0.0083	0.0083

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-011-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	95.6	Lab Sample ID:	870202
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	5.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71910	Analysis Date/Time	11/29/2010 17:00
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-70-2	Calcium	4630		0.31	0.78	2.6	2.6
7440-47-3	Chromium	26.7		0.099	0.099	0.33	0.33
7440-48-4	Cobalt	11.9		0.078	0.078	0.26	0.26
7439-95-4	Magnesium	2690		0.63	0.63	2.1	2.1
7440-02-0	Nickel	21.8		0.094	0.094	0.32	0.32
7440-28-0	Thallium	0.59	J V	0.21	0.21	0.73	0.73

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-011-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	95.6	Lab Sample ID:	870202
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71910	Analysis Date/Time	11/19/2010 20:59
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7429-90-5	Aluminum	9470		0.084	0.084	0.25	0.25
7440-36-0	Antimony	0.31	J V	0.17	0.17	0.56	0.56
7440-38-2	Arsenic	11.1		0.27	0.27	0.94	0.94
7440-39-3	Barium	86.3	B	0.017	0.017	0.056	0.056
7440-41-7	Beryllium	0.69		0.0084	0.0084	0.025	0.025
7440-43-9	Cadmium	1.0		0.013	0.017	0.044	0.044
7440-50-8	Copper	15.2	B	0.13	0.13	0.42	0.42
7439-89-6	Iron	22600		0.63	0.63	2.1	2.1
7439-92-1	Lead	36.6		0.084	0.084	0.29	0.29
7439-96-5	Manganese	643		0.033	0.042	0.10	0.11
7782-49-2	Selenium	0.62	J V	0.15	0.15	0.88	0.88
7440-22-4	Silver	0.14		0.036	0.036	0.12	0.12
7440-62-2	Vanadium	19.4		0.023	0.023	0.071	0.071
7440-66-6	Zinc	52.8		0.084	0.084	0.25	0.25

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-012-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.6	Lab Sample ID:	870213
Analytical Method:	EPA 7471A	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72327	Analysis Date/Time	12/08/2010 14:48
Analytical Prep Batch #:	35687	Prep. Date/Time:	12/07/2010 15:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-97-6	Mercury	0.040		0.0024	0.0024	0.0080	0.0080

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-012-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.6	Lab Sample ID:	870213
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72204	Analysis Date/Time	12/03/2010 16:37
Analytical Prep Batch #:	35624	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-09-7	Potassium	1050		11	11	37	37
7440-23-5	Sodium	52.0		4.1	4.1	13	13

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-012-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.6	Lab Sample ID:	870213
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72203	Analysis Date/Time	12/09/2010 21:10
Analytical Prep Batch #:	35624	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-95-4	Magnesium	2280		0.24	0.24	0.81	0.81
7440-28-0	Thallium	0.70		0.081	0.081	0.28	0.28

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-012-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.6	Lab Sample ID:	870213
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72203	Analysis Date/Time	12/03/2010 21:42
Analytical Prep Batch #:	35624	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers		DL	LOD	LOQ	RL
7429-90-5	Aluminum	11700		B	0.081	0.081	0.24	0.24
7440-36-0	Antimony	3.9			0.16	0.16	0.55	0.55
7440-38-2	Arsenic	8.8			0.26	0.26	0.91	0.91
7440-39-3	Barium	86.2		B	0.016	0.016	0.055	0.055
7440-41-7	Beryllium	0.59		B	0.0081	0.0081	0.024	0.024
7440-43-9	Cadmium	0.18			0.012	0.016	0.043	0.043
7440-70-2	Calcium	3500		B	0.12	0.30	1.0	1.0
7440-47-3	Chromium	97.9		B	0.039	0.039	0.13	0.13
7440-48-4	Cobalt	8.3		B	0.030	0.030	0.099	0.099
7440-50-8	Copper	11.6			0.12	0.12	0.41	0.41
7439-89-6	Iron	17200		B	0.61	0.61	2.0	2.0
7439-92-1	Lead	19.6			0.081	0.081	0.28	0.28
7439-96-5	Manganese	1040		B	0.032	0.041	0.10	0.11
7440-02-0	Nickel	17.6		B	0.037	0.037	0.12	0.12
7782-49-2	Selenium	0.14	U	V,B	0.14	0.14	0.85	0.85
7440-22-4	Silver	0.034	U	V	0.034	0.034	0.11	0.11
7440-62-2	Vanadium	23.5			0.022	0.022	0.069	0.069
7440-66-6	Zinc	62.4			0.081	0.081	0.24	0.24

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-013-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.1	Lab Sample ID:	870216
Analytical Method:	EPA 7471A	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72327	Analysis Date/Time	12/08/2010 14:54
Analytical Prep Batch #:	35687	Prep. Date/Time:	12/07/2010 15:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-97-6	Mercury	0.037		0.0024	0.0024	0.0081	0.0081

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-013-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.1	Lab Sample ID:	870216
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72204	Analysis Date/Time	12/03/2010 16:44
Analytical Prep Batch #:	35624	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-09-7	Potassium	1050		11	11	37	37
7440-23-5	Sodium	70.3		4.1	4.1	13	13

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-013-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.1	Lab Sample ID:	870216
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72203	Analysis Date/Time	12/09/2010 21:26
Analytical Prep Batch #:	35624	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-95-4	Magnesium	2730		0.24	0.24	0.82	0.82
7782-49-2	Selenium	1.8		0.14	0.14	0.86	0.86
7440-28-0	Thallium	0.48		0.082	0.082	0.29	0.29

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-013-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.1	Lab Sample ID:	870216
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72203	Analysis Date/Time	12/03/2010 21:59
Analytical Prep Batch #:	35624	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7429-90-5	Aluminum	11800	B	0.082	0.082	0.24	0.24
7440-36-0	Antimony	8.7		0.16	0.16	0.55	0.55
7440-38-2	Arsenic	9.6		0.27	0.27	0.92	0.92
7440-39-3	Barium	115	B	0.016	0.016	0.055	0.055
7440-41-7	Beryllium	0.69	B	0.0082	0.0082	0.024	0.024
7440-43-9	Cadmium	0.27		0.012	0.016	0.043	0.043
7440-70-2	Calcium	8870	B	0.12	0.31	1.0	1.0
7440-47-3	Chromium	85.1	B	0.039	0.039	0.13	0.13
7440-48-4	Cobalt	8.3	B	0.031	0.031	0.10	0.10
7440-50-8	Copper	10.1		0.12	0.12	0.41	0.41
7439-89-6	Iron	21700	B	0.61	0.61	2.0	2.0
7439-92-1	Lead	19.2		0.082	0.082	0.29	0.29
7439-96-5	Manganese	1200	B	0.033	0.041	0.10	0.11
7440-02-0	Nickel	17.0	B	0.037	0.037	0.12	0.12
7440-22-4	Silver	0.19		0.035	0.035	0.11	0.11
7440-62-2	Vanadium	21.4		0.022	0.022	0.069	0.069
7440-66-6	Zinc	53.5		0.082	0.082	0.24	0.24

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-014-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	96.9	Lab Sample ID:	870201
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71911	Analysis Date/Time	11/22/2010 07:48
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-09-7	Potassium	970		11	11	36	37
7440-23-5	Sodium	54.7		4.1	4.0	13	13

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-014-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	96.9	Lab Sample ID:	870201
Analytical Method:	EPA 7471A	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72018	Analysis Date/Time	11/24/2010 09:46
Analytical Prep Batch #:	35531	Prep. Date/Time:	11/23/2010 15:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-97-6	Mercury	0.040	M	0.0025	0.0025	0.0082	0.0082

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-014-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	96.9	Lab Sample ID:	870201
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	5.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71910	Analysis Date/Time	11/29/2010 16:04
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-70-2	Calcium	2880		0.31	0.77	2.6	2.6
7440-47-3	Chromium	156		0.098	0.098	0.33	0.33
7440-48-4	Cobalt	10.9		0.077	0.077	0.25	0.25
7439-95-4	Magnesium	2540		0.62	0.62	2.1	2.1
7440-02-0	Nickel	20.6		0.093	0.093	0.31	0.31
7440-28-0	Thallium	0.92	Y	0.21	0.21	0.72	0.72

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-014-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	96.9	Lab Sample ID:	870201
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71910	Analysis Date/Time	11/19/2010 20:24
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7429-90-5	Aluminum	10200		0.083	0.083	0.25	0.25
7440-36-0	Antimony	2.4	Y	0.17	0.17	0.56	0.56
7440-38-2	Arsenic	10.8		0.27	0.27	0.93	0.93
7440-39-3	Barium	94.4	B	0.017	0.017	0.056	0.056
7440-41-7	Beryllium	0.63		0.0083	0.0083	0.025	0.025
7440-43-9	Cadmium	1.1		0.012	0.017	0.043	0.043
7440-50-8	Copper	14.6	B	0.12	0.12	0.41	0.41
7439-89-6	Iron	22500	M	0.62	0.62	2.1	2.1
7439-92-1	Lead	30.4		0.083	0.083	0.29	0.29
7439-96-5	Manganese	738		0.033	0.041	0.10	0.11
7782-49-2	Selenium	0.87	V	0.14	0.14	0.87	0.87
7440-22-4	Silver	0.15	M	0.035	0.035	0.12	0.12
7440-62-2	Vanadium	22.8		0.023	0.023	0.070	0.070
7440-66-6	Zinc	47.6		0.083	0.083	0.25	0.25

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-014-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	96.7	Lab Sample ID:	870203
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71911	Analysis Date/Time	11/22/2010 08:10
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-09-7	Potassium	620		11	11	36	37
7440-23-5	Sodium	25.1		4.1	4.0	13	13

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-014-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	96.7	Lab Sample ID:	870203
Analytical Method:	EPA 7471A	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72018	Analysis Date/Time	11/24/2010 10:03
Analytical Prep Batch #:	35531	Prep. Date/Time:	11/23/2010 15:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-97-6	Mercury	0.045		0.0025	0.0025	0.0082	0.0082

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Sample Description

DLASS-014-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	96.7	Lab Sample ID:	870203
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	5.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71910	Analysis Date/Time	11/29/2010 17:06
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-70-2	Calcium	2910		0.31	0.78	2.6	2.6
7440-47-3	Chromium	30.8		0.098	0.098	0.33	0.33
7440-48-4	Cobalt	9.0		0.078	0.078	0.25	0.25
7439-95-4	Magnesium	2040		0.62	0.62	2.1	2.1
7440-02-0	Nickel	18.2		0.093	0.093	0.32	0.32
7440-28-0	Thallium	0.30	J V	0.21	0.21	0.72	0.72

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-014-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	96.7	Lab Sample ID:	870203
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71910	Analysis Date/Time	11/19/2010 21:04
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers		DL	LOD	LOQ	RL
7429-90-5	Aluminum	9670			0.083	0.083	0.25	0.25
7440-36-0	Antimony	0.47	J	V	0.17	0.17	0.56	0.56
7440-38-2	Arsenic	10.5			0.27	0.27	0.93	0.93
7440-39-3	Barium	88.9		B	0.017	0.017	0.056	0.056
7440-41-7	Beryllium	0.61			0.0083	0.0083	0.025	0.025
7440-43-9	Cadmium	1.0			0.012	0.017	0.043	0.043
7440-50-8	Copper	13.9		B	0.12	0.12	0.41	0.41
7439-89-6	Iron	22400			0.62	0.62	2.1	2.1
7439-92-1	Lead	30.9			0.083	0.083	0.29	0.29
7439-96-5	Manganese	760			0.033	0.041	0.10	0.11
7782-49-2	Selenium	0.87		V	0.14	0.14	0.87	0.87
7440-22-4	Silver	0.17			0.035	0.035	0.12	0.12
7440-62-2	Vanadium	22.0			0.023	0.023	0.070	0.070
7440-66-6	Zinc	47.6			0.083	0.083	0.25	0.25

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-016-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.2	Lab Sample ID:	870192
Analytical Method:	EPA 7471A	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72327	Analysis Date/Time	12/08/2010 14:24
Analytical Prep Batch #:	35687	Prep. Date/Time:	12/07/2010 15:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-97-6	Mercury	0.049		0.0024	0.0024	0.0080	0.0080

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-016-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.2	Lab Sample ID:	870192
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72204	Analysis Date/Time	12/03/2010 16:04
Analytical Prep Batch #:	35624	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-09-7	Potassium	731		11	11	37	37
7440-23-5	Sodium	51.2		4.1	4.1	13	13

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-016-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.2	Lab Sample ID:	870192
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72203	Analysis Date/Time	12/09/2010 19:28
Analytical Prep Batch #:	35624	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-89-6	Iron	26800		0.61	0.61	2.0	2.0
7439-95-4	Magnesium	2420		0.24	0.24	0.81	0.81
7439-96-5	Manganese	1410		0.033	0.041	0.10	0.11
7782-49-2	Selenium	0.14	U V	0.14	0.14	0.86	0.86
7440-28-0	Thallium	0.69		0.081	0.081	0.29	0.29

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-016-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.2	Lab Sample ID:	870192
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72203	Analysis Date/Time	12/03/2010 20:18
Analytical Prep Batch #:	35624	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers		DL	LOD	LOQ	RL
7429-90-5	Aluminum	12100		B	0.081	0.081	0.24	0.24
7440-36-0	Antimony	25.1			0.16	0.16	0.55	0.55
7440-38-2	Arsenic	9.9			0.26	0.26	0.92	0.92
7440-39-3	Barium	107		B	0.016	0.016	0.055	0.055
7440-41-7	Beryllium	0.70			0.0081	0.0081	0.024	0.024
7440-43-9	Cadmium	0.26			0.012	0.016	0.043	0.043
7440-70-2	Calcium	7990		B	0.12	0.31	1.0	1.0
7440-47-3	Chromium	31.1		B	0.039	0.039	0.13	0.13
7440-48-4	Cobalt	8.4		B	0.031	0.031	0.10	0.10
7440-50-8	Copper	8.9			0.12	0.12	0.41	0.41
7439-92-1	Lead	25.1			0.081	0.081	0.29	0.29
7440-02-0	Nickel	11.3		B	0.037	0.037	0.12	0.12
7440-22-4	Silver	0.077	J	V	0.035	0.035	0.11	0.11
7440-62-2	Vanadium	22.9			0.022	0.022	0.069	0.069
7440-66-6	Zinc	68.7			0.081	0.081	0.24	0.24

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-017-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.3	Lab Sample ID:	870193
Analytical Method:	EPA 7471A	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72327	Analysis Date/Time	12/08/2010 14:26
Analytical Prep Batch #:	35687	Prep. Date/Time:	12/07/2010 15:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-97-6	Mercury	0.052		0.0024	0.0024	0.0080	0.0080

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-017-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.3	Lab Sample ID:	870193
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72204	Analysis Date/Time	12/03/2010 16:07
Analytical Prep Batch #:	35624	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-09-7	Potassium	946		11	11	37	37
7440-23-5	Sodium	54.9		4.1	4.1	13	13

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-017-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.3	Lab Sample ID:	870193
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72203	Analysis Date/Time	12/09/2010 19:54
Analytical Prep Batch #:	35624	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-89-6	Iron	26000		0.61	0.61	2.0	2.0
7439-95-4	Magnesium	1840		0.24	0.24	0.81	0.81
7439-96-5	Manganese	1270		0.033	0.041	0.10	0.11
7782-49-2	Selenium	0.50	J V	0.14	0.14	0.85	0.85

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-017-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.3	Lab Sample ID:	870193
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72203	Analysis Date/Time	12/03/2010 20:24
Analytical Prep Batch #:	35624	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7429-90-5	Aluminum	12900	B	0.081	0.081	0.24	0.24
7440-36-0	Antimony	2.7		0.16	0.16	0.55	0.55
7440-38-2	Arsenic	9.5		0.26	0.26	0.92	0.92
7440-39-3	Barium	121	B	0.016	0.016	0.055	0.055
7440-41-7	Beryllium	0.64		0.0081	0.0081	0.024	0.024
7440-43-9	Cadmium	0.39		0.012	0.016	0.043	0.043
7440-70-2	Calcium	4250	B	0.12	0.31	1.0	1.0
7440-47-3	Chromium	134	B	0.039	0.039	0.13	0.13
7440-48-4	Cobalt	9.6	B	0.031	0.031	0.10	0.10
7440-50-8	Copper	10.8		0.12	0.12	0.41	0.41
7439-92-1	Lead	23.7		0.081	0.081	0.28	0.28
7440-02-0	Nickel	14.5	B	0.037	0.037	0.12	0.12
7440-22-4	Silver	0.20		0.035	0.035	0.11	0.11
7440-28-0	Thallium	0.081	U V	0.081	0.081	0.28	0.28
7440-62-2	Vanadium	24.4		0.022	0.022	0.069	0.069
7440-66-6	Zinc	104		0.081	0.081	0.24	0.24

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-018-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	97.5	Lab Sample ID:	870190
Analytical Method:	EPA 7471A	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72327	Analysis Date/Time	12/08/2010 14:20
Analytical Prep Batch #:	35687	Prep. Date/Time:	12/07/2010 15:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-97-6	Mercury	0.034		0.0025	0.0025	0.0081	0.0081

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-018-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	97.5	Lab Sample ID:	870190
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72204	Analysis Date/Time	12/03/2010 15:59
Analytical Prep Batch #:	35624	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-09-7	Potassium	728		11	11	37	37
7440-23-5	Sodium	29.2		4.1	4.1	13	13

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-018-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	97.5	Lab Sample ID:	870190
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72203	Analysis Date/Time	12/09/2010 19:17
Analytical Prep Batch #:	35624	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-89-6	Iron	24600		0.62	0.62	2.1	2.1
7439-95-4	Magnesium	1620		0.25	0.25	0.82	0.82
7439-96-5	Manganese	1270		0.033	0.041	0.10	0.11
7782-49-2	Selenium	0.93		0.14	0.14	0.86	0.86
7440-28-0	Thallium	0.53		0.082	0.082	0.29	0.29

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-018-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	97.5	Lab Sample ID:	870190
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72203	Analysis Date/Time	12/03/2010 20:07
Analytical Prep Batch #:	35624	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers		DL	LOD	LOQ	RL
7429-90-5	Aluminum	11200		B	0.082	0.082	0.25	0.25
7440-36-0	Antimony	2.4			0.16	0.16	0.55	0.55
7440-38-2	Arsenic	9.7			0.27	0.27	0.92	0.92
7440-39-3	Barium	86.2		B	0.016	0.016	0.055	0.055
7440-41-7	Beryllium	0.55			0.0082	0.0082	0.025	0.025
7440-43-9	Cadmium	0.17			0.012	0.016	0.043	0.043
7440-70-2	Calcium	1420		B	0.12	0.31	1.0	1.0
7440-47-3	Chromium	94.9		B	0.039	0.039	0.13	0.13
7440-48-4	Cobalt	9.2		B	0.031	0.031	0.10	0.10
7440-50-8	Copper	12.1			0.12	0.12	0.41	0.41
7439-92-1	Lead	29.7			0.082	0.082	0.29	0.29
7440-02-0	Nickel	12.8		B	0.037	0.037	0.13	0.13
7440-22-4	Silver	0.035	U	V	0.035	0.035	0.11	0.11
7440-62-2	Vanadium	23.2			0.023	0.023	0.070	0.070
7440-66-6	Zinc	52.8			0.082	0.082	0.25	0.25

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-019-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	97.1	Lab Sample ID:	869553
Analytical Method:	EPA 7471A	Date Received:	11/10/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72326	Analysis Date/Time	12/08/2010 13:48
Analytical Prep Batch #:	35686	Prep. Date/Time:	12/07/2010 15:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-97-6	Mercury	0.068		0.0025	0.0025	0.0081	0.0081

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-019-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	97.1	Lab Sample ID:	869553
Analytical Method:	EPA 6010C	Date Received:	11/10/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72202	Analysis Date/Time	12/03/2010 17:12
Analytical Prep Batch #:	35623	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-09-7	Potassium	636		11	11	37	37
7440-23-5	Sodium	44.3		4.1	4.1	13	13

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-019-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	97.1	Lab Sample ID:	869553
Analytical Method:	EPA 6010C	Date Received:	11/10/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72201	Analysis Date/Time	12/09/2010 22:36
Analytical Prep Batch #:	35623	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-96-5	Manganese	1230	B	0.033	0.041	0.10	0.11
7440-28-0	Thallium	0.58		0.082	0.082	0.29	0.29

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Sample Description

DLASS-019-0001-SO

INORGANIC ANALYSIS DATA SHEET

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	97.1	Lab Sample ID:	869553
Analytical Method:	EPA 6010C	Date Received:	11/10/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72201	Analysis Date/Time	12/03/2010 23:11
Analytical Prep Batch #:	35623	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers		DL	LOD	LOQ	RL
7429-90-5	Aluminum	11600		B	0.082	0.082	0.25	0.25
7440-36-0	Antimony	0.59			0.16	0.16	0.56	0.56
7440-38-2	Arsenic	9.7			0.27	0.27	0.93	0.93
7440-39-3	Barium	103		B	0.016	0.016	0.056	0.056
7440-41-7	Beryllium	0.71		B	0.0082	0.0082	0.025	0.025
7440-43-9	Cadmium	0.12			0.012	0.016	0.043	0.043
7440-70-2	Calcium	7830		B	0.12	0.31	1.0	1.0
7440-47-3	Chromium	14.8		B	0.039	0.039	0.13	0.13
7440-48-4	Cobalt	8.2		B	0.031	0.031	0.10	0.10
7440-50-8	Copper	11.3			0.12	0.12	0.41	0.41
7439-89-6	Iron	16800		B	0.62	0.62	2.1	2.1
7439-92-1	Lead	18.7		B	0.082	0.082	0.29	0.29
7439-95-4	Magnesium	2000		B	0.25	0.25	0.82	0.82
7440-02-0	Nickel	20.4		B	0.037	0.037	0.13	0.13
7782-49-2	Selenium	0.20	J	V	0.14	0.14	0.87	0.87
7440-22-4	Silver	0.035	U	V	0.035	0.035	0.12	0.12
7440-62-2	Vanadium	22.9		B	0.023	0.023	0.070	0.070
7440-66-6	Zinc	45.8			0.082	0.082	0.25	0.25

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-020-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.6	Lab Sample ID:	870210
Analytical Method:	EPA 7471A	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72327	Analysis Date/Time	12/08/2010 14:42
Analytical Prep Batch #:	35687	Prep. Date/Time:	12/07/2010 15:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-97-6	Mercury	0.032		0.0024	0.0024	0.0080	0.0080

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-020-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.6	Lab Sample ID:	870210
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72204	Analysis Date/Time	12/03/2010 16:29
Analytical Prep Batch #:	35624	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-09-7	Potassium	1290		11	11	37	37
7440-23-5	Sodium	104		4.1	4.1	13	13

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-020-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.6	Lab Sample ID:	870210
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72203	Analysis Date/Time	12/09/2010 20:32
Analytical Prep Batch #:	35624	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-95-4	Magnesium	3290		0.24	0.24	0.81	0.81
7782-49-2	Selenium	0.14	U V	0.14	0.14	0.85	0.85
7440-28-0	Thallium	0.81		0.081	0.081	0.28	0.28

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-020-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.6	Lab Sample ID:	870210
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72203	Analysis Date/Time	12/03/2010 21:25
Analytical Prep Batch #:	35624	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7429-90-5	Aluminum	9890	B	0.081	0.081	0.24	0.24
7440-36-0	Antimony	20.7		0.16	0.16	0.55	0.55
7440-38-2	Arsenic	10.2		0.26	0.26	0.91	0.91
7440-39-3	Barium	104	B	0.016	0.016	0.055	0.055
7440-41-7	Beryllium	0.81	B	0.0081	0.0081	0.024	0.024
7440-43-9	Cadmium	0.19		0.012	0.016	0.043	0.043
7440-70-2	Calcium	14800	B	0.12	0.30	1.0	1.0
7440-47-3	Chromium	106	B	0.039	0.039	0.13	0.13
7440-48-4	Cobalt	7.4	B	0.030	0.030	0.099	0.099
7440-50-8	Copper	11.2		0.12	0.12	0.41	0.41
7439-89-6	Iron	17200	B	0.61	0.61	2.0	2.0
7439-92-1	Lead	19.1		0.081	0.081	0.28	0.28
7439-96-5	Manganese	1260	B	0.032	0.041	0.10	0.11
7440-02-0	Nickel	18.9	B	0.037	0.037	0.12	0.12
7440-22-4	Silver	0.062	J V	0.034	0.034	0.11	0.11
7440-62-2	Vanadium	15.8		0.022	0.022	0.069	0.069
7440-66-6	Zinc	48.2		0.081	0.081	0.24	0.24

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-021-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	97.9	Lab Sample ID:	870197
Analytical Method:	EPA 7471A	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72327	Analysis Date/Time	12/08/2010 14:33
Analytical Prep Batch #:	35687	Prep. Date/Time:	12/07/2010 15:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-97-6	Mercury	0.035		0.0025	0.0025	0.0081	0.0081

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-021-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	97.9	Lab Sample ID:	870197
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72204	Analysis Date/Time	12/03/2010 16:17
Analytical Prep Batch #:	35624	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-09-7	Potassium	1400		11	11	37	37
7440-23-5	Sodium	148		4.1	4.1	13	13

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-021-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	97.9	Lab Sample ID:	870197
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72203	Analysis Date/Time	12/09/2010 20:16
Analytical Prep Batch #:	35624	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-95-4	Magnesium	6790		0.25	0.25	0.82	0.82
7782-49-2	Selenium	1.1		0.14	0.14	0.86	0.86
7440-28-0	Thallium	1.2		0.082	0.082	0.29	0.29

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-021-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	97.9	Lab Sample ID:	870197
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72203	Analysis Date/Time	12/03/2010 21:08
Analytical Prep Batch #:	35624	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7429-90-5	Aluminum	14100	B	0.082	0.082	0.25	0.25
7440-36-0	Antimony	3.6		0.16	0.16	0.55	0.55
7440-38-2	Arsenic	9.3		0.27	0.27	0.92	0.92
7440-39-3	Barium	172	B	0.016	0.016	0.055	0.055
7440-41-7	Beryllium	1.2	B	0.0082	0.0082	0.025	0.025
7440-43-9	Cadmium	0.26		0.012	0.016	0.043	0.043
7440-70-2	Calcium	29000	B	0.12	0.31	1.0	1.0
7440-47-3	Chromium	118	B	0.039	0.039	0.13	0.13
7440-48-4	Cobalt	8.1	B	0.031	0.031	0.10	0.10
7440-50-8	Copper	11.5		0.12	0.12	0.41	0.41
7439-89-6	Iron	20100	B	0.61	0.61	2.0	2.0
7439-92-1	Lead	24.8		0.082	0.082	0.29	0.29
7439-96-5	Manganese	2020	B	0.033	0.041	0.10	0.11
7440-02-0	Nickel	21.8	B	0.037	0.037	0.12	0.12
7440-22-4	Silver	0.18		0.035	0.035	0.11	0.11
7440-62-2	Vanadium	18.2		0.022	0.022	0.069	0.069
7440-66-6	Zinc	58.7		0.082	0.082	0.25	0.25

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-022-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.2	Lab Sample ID:	870194
Analytical Method:	EPA 7471A	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72327	Analysis Date/Time	12/08/2010 14:27
Analytical Prep Batch #:	35687	Prep. Date/Time:	12/07/2010 15:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-97-6	Mercury	0.043		0.0024	0.0024	0.0080	0.0080

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-022-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.2	Lab Sample ID:	870194
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72204	Analysis Date/Time	12/03/2010 16:09
Analytical Prep Batch #:	35624	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-09-7	Potassium	1080		11	11	37	37
7440-23-5	Sodium	55.0		4.1	4.1	13	13

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-022-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.2	Lab Sample ID:	870194
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72203	Analysis Date/Time	12/09/2010 20:00
Analytical Prep Batch #:	35624	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-89-6	Iron	27600		0.61	0.61	2.0	2.0
7439-95-4	Magnesium	2250		0.24	0.24	0.81	0.81
7439-96-5	Manganese	1010		0.033	0.041	0.10	0.11
7440-28-0	Thallium	0.90		0.081	0.081	0.29	0.29

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Sample Description

DLASS-022-0001-SO

INORGANIC ANALYSIS DATA SHEET

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.2	Lab Sample ID:	870194
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72203	Analysis Date/Time	12/03/2010 20:29
Analytical Prep Batch #:	35624	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7429-90-5	Aluminum	10900	B	0.081	0.081	0.24	0.24
7440-36-0	Antimony	2.3		0.16	0.16	0.55	0.55
7440-38-2	Arsenic	10.2		0.26	0.26	0.92	0.92
7440-39-3	Barium	104	B	0.016	0.016	0.055	0.055
7440-41-7	Beryllium	0.69		0.0081	0.0081	0.024	0.024
7440-43-9	Cadmium	0.33		0.012	0.016	0.043	0.043
7440-70-2	Calcium	5860	B	0.12	0.31	1.0	1.0
7440-47-3	Chromium	95.2	B	0.039	0.039	0.13	0.13
7440-48-4	Cobalt	9.6	B	0.031	0.031	0.10	0.10
7440-50-8	Copper	11.8		0.12	0.12	0.41	0.41
7439-92-1	Lead	24.5		0.081	0.081	0.29	0.29
7440-02-0	Nickel	17.4	B	0.037	0.037	0.12	0.12
7782-49-2	Selenium	2.3	B	0.14	0.14	0.86	0.86
7440-22-4	Silver	0.12		0.035	0.035	0.11	0.11
7440-62-2	Vanadium	21.8		0.022	0.022	0.069	0.069
7440-66-6	Zinc	56.5		0.081	0.081	0.24	0.24

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-022-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.1	Lab Sample ID:	870195
Analytical Method:	EPA 7471A	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72327	Analysis Date/Time	12/08/2010 14:29
Analytical Prep Batch #:	35687	Prep. Date/Time:	12/07/2010 15:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-97-6	Mercury	0.042		0.0024	0.0024	0.0081	0.0081

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-022-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.1	Lab Sample ID:	870195
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72204	Analysis Date/Time	12/03/2010 16:12
Analytical Prep Batch #:	35624	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-09-7	Potassium	1100		11	11	37	37
7440-23-5	Sodium	67.8		4.1	4.1	13	13

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-022-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.1	Lab Sample ID:	870195
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72203	Analysis Date/Time	12/09/2010 20:05
Analytical Prep Batch #:	35624	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-89-6	Iron	25800		0.61	0.61	2.0	2.0
7439-95-4	Magnesium	2560		0.24	0.24	0.82	0.82
7439-96-5	Manganese	973		0.033	0.041	0.10	0.11
7782-49-2	Selenium	1.5		0.14	0.14	0.86	0.86
7440-28-0	Thallium	0.70		0.082	0.082	0.29	0.29

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-022-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.1	Lab Sample ID:	870195
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72203	Analysis Date/Time	12/03/2010 20:35
Analytical Prep Batch #:	35624	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers		DL	LOD	LOQ	RL
7429-90-5	Aluminum	11300		B	0.082	0.082	0.24	0.24
7440-36-0	Antimony	2.7			0.16	0.16	0.55	0.55
7440-38-2	Arsenic	10.3			0.27	0.27	0.92	0.92
7440-39-3	Barium	111		B	0.016	0.016	0.055	0.055
7440-41-7	Beryllium	0.74			0.0082	0.0082	0.024	0.024
7440-43-9	Cadmium	0.27			0.012	0.016	0.043	0.043
7440-70-2	Calcium	8660		B	0.12	0.31	1.0	1.0
7440-47-3	Chromium	111		B	0.039	0.039	0.13	0.13
7440-48-4	Cobalt	9.1		B	0.031	0.031	0.10	0.10
7440-50-8	Copper	12.5			0.12	0.12	0.41	0.41
7439-92-1	Lead	25.8			0.082	0.082	0.29	0.29
7440-02-0	Nickel	17.7		B	0.037	0.037	0.12	0.12
7440-22-4	Silver	0.061	J	V	0.035	0.035	0.11	0.11
7440-62-2	Vanadium	21.4			0.022	0.022	0.069	0.069
7440-66-6	Zinc	54.5			0.082	0.082	0.24	0.24

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-024-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	97.8	Lab Sample ID:	869555
Analytical Method:	EPA 7471A	Date Received:	11/10/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72326	Analysis Date/Time	12/08/2010 13:56
Analytical Prep Batch #:	35686	Prep. Date/Time:	12/07/2010 15:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-97-6	Mercury	0.024		0.0025	0.0025	0.0081	0.0081

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-024-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	97.8	Lab Sample ID:	869555
Analytical Method:	EPA 6010C	Date Received:	11/10/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72202	Analysis Date/Time	12/03/2010 17:17
Analytical Prep Batch #:	35623	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-09-7	Potassium	867		11	11	37	37
7440-23-5	Sodium	61.3		4.1	4.1	13	13

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-024-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	97.8	Lab Sample ID:	869555
Analytical Method:	EPA 6010C	Date Received:	11/10/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72201	Analysis Date/Time	12/09/2010 22:47
Analytical Prep Batch #:	35623	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers		DL	LOD	LOQ	RL
7439-95-4	Magnesium	2640			0.25	0.25	0.82	0.82
7439-96-5	Manganese	1090		B	0.033	0.041	0.10	0.11
7440-22-4	Silver	0.035	U	V	0.035	0.035	0.11	0.11
7440-28-0	Thallium	0.87			0.082	0.082	0.29	0.29

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-024-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	97.8	Lab Sample ID:	869555
Analytical Method:	EPA 6010C	Date Received:	11/10/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72201	Analysis Date/Time	12/03/2010 23:43
Analytical Prep Batch #:	35623	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7429-90-5	Aluminum	10900	B	0.082	0.082	0.25	0.25
7440-36-0	Antimony	1.7		0.16	0.16	0.55	0.55
7440-38-2	Arsenic	11.2		0.27	0.27	0.92	0.92
7440-39-3	Barium	116	B	0.016	0.016	0.055	0.055
7440-41-7	Beryllium	0.81	B	0.0082	0.0082	0.025	0.025
7440-43-9	Cadmium	0.079		0.012	0.016	0.043	0.043
7440-70-2	Calcium	9710	B	0.12	0.31	1.0	1.0
7440-47-3	Chromium	57.3	B	0.039	0.039	0.13	0.13
7440-48-4	Cobalt	6.6	B	0.031	0.031	0.10	0.10
7440-50-8	Copper	8.8	B	0.12	0.12	0.41	0.41
7439-89-6	Iron	20600	B	0.61	0.61	2.0	2.0
7439-92-1	Lead	24.2	B	0.082	0.082	0.29	0.29
7440-02-0	Nickel	18.7	B	0.037	0.037	0.12	0.12
7782-49-2	Selenium	1.7		0.14	0.14	0.86	0.86
7440-62-2	Vanadium	17.5	B	0.022	0.022	0.070	0.070
7440-66-6	Zinc	44.2		0.082	0.082	0.25	0.25

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-025-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.2	Lab Sample ID:	870214
Analytical Method:	EPA 7471A	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72327	Analysis Date/Time	12/08/2010 14:50
Analytical Prep Batch #:	35687	Prep. Date/Time:	12/07/2010 15:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-97-6	Mercury	0.049		0.0024	0.0024	0.0080	0.0080

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-025-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.2	Lab Sample ID:	870214
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72204	Analysis Date/Time	12/03/2010 16:39
Analytical Prep Batch #:	35624	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-09-7	Potassium	1010		11	11	37	37
7440-23-5	Sodium	101		4.1	4.1	13	13

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-025-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.2	Lab Sample ID:	870214
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72203	Analysis Date/Time	12/09/2010 21:15
Analytical Prep Batch #:	35624	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-95-4	Magnesium	3130		0.24	0.24	0.81	0.81
7782-49-2	Selenium	1.9		0.14	0.14	0.86	0.86
7440-28-0	Thallium	0.58		0.081	0.081	0.29	0.29

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-025-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.2	Lab Sample ID:	870214
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72203	Analysis Date/Time	12/03/2010 21:47
Analytical Prep Batch #:	35624	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7429-90-5	Aluminum	13000	B	0.081	0.081	0.24	0.24
7440-36-0	Antimony	1.8		0.16	0.16	0.55	0.55
7440-38-2	Arsenic	9.1		0.26	0.26	0.92	0.92
7440-39-3	Barium	144	B	0.016	0.016	0.055	0.055
7440-41-7	Beryllium	0.93	B	0.0081	0.0081	0.024	0.024
7440-43-9	Cadmium	0.26		0.012	0.016	0.043	0.043
7440-70-2	Calcium	16400	B	0.12	0.31	1.0	1.0
7440-47-3	Chromium	101	B	0.039	0.039	0.13	0.13
7440-48-4	Cobalt	8.4	B	0.031	0.031	0.10	0.10
7440-50-8	Copper	12.7		0.12	0.12	0.41	0.41
7439-89-6	Iron	18300	B	0.61	0.61	2.0	2.0
7439-92-1	Lead	20.7		0.081	0.081	0.29	0.29
7439-96-5	Manganese	1800	B	0.033	0.041	0.10	0.11
7440-02-0	Nickel	21.2	B	0.037	0.037	0.12	0.12
7440-22-4	Silver	0.079	J V	0.035	0.035	0.11	0.11
7440-62-2	Vanadium	22.0		0.022	0.022	0.069	0.069
7440-66-6	Zinc	46.9		0.081	0.081	0.24	0.24

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-026-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	96.8	Lab Sample ID:	870207
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71911	Analysis Date/Time	11/22/2010 08:15
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-09-7	Potassium	956		11	11	36	37
7440-23-5	Sodium	60.4		4.1	4.0	13	13

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-026-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	96.8	Lab Sample ID:	870207
Analytical Method:	EPA 7471A	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72018	Analysis Date/Time	11/24/2010 10:06
Analytical Prep Batch #:	35531	Prep. Date/Time:	11/23/2010 15:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-97-6	Mercury	0.044		0.0025	0.0025	0.0082	0.0082

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-026-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	96.8	Lab Sample ID:	870207
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71910	Analysis Date/Time	12/03/2010 14:43
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers		DL	LOD	LOQ	RL
7782-49-2	Selenium	0.78	J	V	0.14	0.14	0.87	0.87

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-026-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	96.8	Lab Sample ID:	870207
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71910	Analysis Date/Time	11/29/2010 17:17
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-48-4	Cobalt	2.0		0.015	0.015	0.051	0.051
7440-02-0	Nickel	3.9		0.019	0.019	0.063	0.063

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-026-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	96.8	Lab Sample ID:	870207
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	5.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71910	Analysis Date/Time	11/29/2010 17:17
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-47-3	Chromium	155		0.098	0.098	0.33	0.33
7440-28-0	Thallium	0.86		0.21	0.21	0.72	0.72

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-026-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	96.8	Lab Sample ID:	870207
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71910	Analysis Date/Time	11/19/2010 21:37
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7429-90-5	Aluminum	9610		0.083	0.083	0.25	0.25
7440-36-0	Antimony	2.2		0.17	0.17	0.56	0.56
7440-38-2	Arsenic	9.6		0.27	0.27	0.93	0.93
7440-39-3	Barium	105	B	0.017	0.017	0.056	0.056
7440-41-7	Beryllium	0.68		0.0083	0.0083	0.025	0.025
7440-43-9	Cadmium	1.1		0.012	0.017	0.043	0.043
7440-70-2	Calcium	4010	B	0.12	0.31	1.0	1.0
7440-50-8	Copper	14.2	B	0.12	0.12	0.41	0.41
7439-89-6	Iron	22000		0.62	0.62	2.1	2.1
7439-92-1	Lead	30.8		0.083	0.083	0.29	0.29
7439-95-4	Magnesium	2180	B	0.25	0.25	0.83	0.83
7439-96-5	Manganese	852		0.033	0.041	0.10	0.11
7440-22-4	Silver	0.13		0.035	0.035	0.12	0.12
7440-62-2	Vanadium	21.4	B	0.023	0.023	0.070	0.070
7440-66-6	Zinc	52.2		0.083	0.083	0.25	0.25

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-027-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	97.3	Lab Sample ID:	870188
Analytical Method:	EPA 7471A	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72327	Analysis Date/Time	12/08/2010 14:03
Analytical Prep Batch #:	35687	Prep. Date/Time:	12/07/2010 15:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-97-6	Mercury	0.031		0.0025	0.0025	0.0081	0.0081

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-027-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	97.3	Lab Sample ID:	870188
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72204	Analysis Date/Time	12/03/2010 15:37
Analytical Prep Batch #:	35624	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-09-7	Potassium	614		11	11	37	37
7440-23-5	Sodium	35.5		4.1	4.1	13	13

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-027-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	97.3	Lab Sample ID:	870188
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72203	Analysis Date/Time	12/09/2010 18:39
Analytical Prep Batch #:	35624	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-89-6	Iron	24300		0.62	0.62	2.1	2.1
7439-95-4	Magnesium	2000		0.25	0.25	0.82	0.82
7439-96-5	Manganese	1510		0.033	0.041	0.10	0.11
7440-28-0	Thallium	0.11	J V	0.082	0.082	0.29	0.29

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-027-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	97.3	Lab Sample ID:	870188
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72203	Analysis Date/Time	12/03/2010 19:06
Analytical Prep Batch #:	35624	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers		DL	LOD	LOQ	RL
7429-90-5	Aluminum	9400		B	0.082	0.082	0.25	0.25
7440-36-0	Antimony	0.36	J	V	0.16	0.16	0.55	0.55
7440-38-2	Arsenic	9.5			0.27	0.27	0.92	0.92
7440-39-3	Barium	104		B	0.016	0.016	0.055	0.055
7440-41-7	Beryllium	0.58			0.0082	0.0082	0.025	0.025
7440-43-9	Cadmium	0.23			0.012	0.016	0.043	0.043
7440-70-2	Calcium	10200		B	0.12	0.31	1.0	1.0
7440-47-3	Chromium	13.9		B	0.039	0.039	0.13	0.13
7440-48-4	Cobalt	7.1		B	0.031	0.031	0.10	0.10
7440-50-8	Copper	7.1			0.12	0.12	0.41	0.41
7439-92-1	Lead	15.8			0.082	0.082	0.29	0.29
7440-02-0	Nickel	12.4			0.037	0.037	0.13	0.13
7782-49-2	Selenium	1.9			0.14	0.14	0.86	0.86
7440-22-4	Silver	0.21			0.035	0.035	0.12	0.12
7440-62-2	Vanadium	19.3			0.023	0.023	0.070	0.070
7440-66-6	Zinc	42.0			0.082	0.082	0.25	0.25

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-028-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.5	Lab Sample ID:	870211
Analytical Method:	EPA 7471A	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72327	Analysis Date/Time	12/08/2010 14:44
Analytical Prep Batch #:	35687	Prep. Date/Time:	12/07/2010 15:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-97-6	Mercury	0.047		0.0024	0.0024	0.0080	0.0080

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-028-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.5	Lab Sample ID:	870211
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72204	Analysis Date/Time	12/03/2010 16:32
Analytical Prep Batch #:	35624	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-09-7	Potassium	782		11	11	37	37
7440-23-5	Sodium	76.9		4.1	4.1	13	13

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-028-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.5	Lab Sample ID:	870211
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72203	Analysis Date/Time	12/09/2010 20:38
Analytical Prep Batch #:	35624	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-95-4	Magnesium	3210		0.24	0.24	0.81	0.81
7782-49-2	Selenium	0.69	J V	0.14	0.14	0.85	0.85
7440-28-0	Thallium	0.57		0.081	0.081	0.28	0.28

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-028-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.5	Lab Sample ID:	870211
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72203	Analysis Date/Time	12/03/2010 21:30
Analytical Prep Batch #:	35624	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers		DL	LOD	LOQ	RL
7429-90-5	Aluminum	15900		B	0.081	0.081	0.24	0.24
7440-36-0	Antimony	1.4			0.16	0.16	0.55	0.55
7440-38-2	Arsenic	9.3			0.26	0.26	0.91	0.91
7440-39-3	Barium	175		B	0.016	0.016	0.055	0.055
7440-41-7	Beryllium	1.1		B	0.0081	0.0081	0.024	0.024
7440-43-9	Cadmium	0.026	J		0.012	0.016	0.043	0.043
7440-70-2	Calcium	21800		B	0.12	0.30	1.0	1.0
7440-47-3	Chromium	62.9		B	0.039	0.039	0.13	0.13
7440-48-4	Cobalt	7.4		B	0.030	0.030	0.099	0.099
7440-50-8	Copper	8.6			0.12	0.12	0.41	0.41
7439-89-6	Iron	20600		B	0.61	0.61	2.0	2.0
7439-92-1	Lead	21.7			0.081	0.081	0.28	0.28
7439-96-5	Manganese	2390		B	0.032	0.041	0.10	0.11
7440-02-0	Nickel	15.1		B	0.037	0.037	0.12	0.12
7440-22-4	Silver	0.091	J	V	0.035	0.035	0.11	0.11
7440-62-2	Vanadium	25.2			0.022	0.022	0.069	0.069
7440-66-6	Zinc	49.1			0.081	0.081	0.24	0.24

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-029-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.5	Lab Sample ID:	870208
Analytical Method:	EPA 7471A	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72327	Analysis Date/Time	12/08/2010 14:39
Analytical Prep Batch #:	35687	Prep. Date/Time:	12/07/2010 15:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-97-6	Mercury	0.054		0.0024	0.0024	0.0080	0.0080

CT LABORATORIES
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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-029-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.5	Lab Sample ID:	870208
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72204	Analysis Date/Time	12/03/2010 16:19
Analytical Prep Batch #:	35624	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-09-7	Potassium	822		11	11	37	37
7440-23-5	Sodium	47.0		4.1	4.1	13	13

CT LABORATORIES
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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-029-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.5	Lab Sample ID:	870208
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72203	Analysis Date/Time	12/09/2010 20:22
Analytical Prep Batch #:	35624	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-95-4	Magnesium	2590		0.24	0.24	0.81	0.81
7782-49-2	Selenium	2.7		0.14	0.14	0.85	0.85
7440-28-0	Thallium	0.59		0.081	0.081	0.28	0.28

CT LABORATORIES
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1

INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-029-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.5	Lab Sample ID:	870208
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72203	Analysis Date/Time	12/03/2010 21:13
Analytical Prep Batch #:	35624	Prep. Date/Time:	12/02/2010 16:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7429-90-5	Aluminum	10500	B	0.081	0.081	0.24	0.24
7440-36-0	Antimony	2.6		0.16	0.16	0.55	0.55
7440-38-2	Arsenic	8.1		0.26	0.26	0.91	0.91
7440-39-3	Barium	105	B	0.016	0.016	0.055	0.055
7440-41-7	Beryllium	0.54	B	0.0081	0.0081	0.024	0.024
7440-43-9	Cadmium	0.27		0.012	0.016	0.043	0.043
7440-70-2	Calcium	3500	B	0.12	0.30	1.0	1.0
7440-47-3	Chromium	117	B	0.039	0.039	0.13	0.13
7440-48-4	Cobalt	7.7	B	0.030	0.030	0.099	0.099
7440-50-8	Copper	9.2		0.12	0.12	0.41	0.41
7439-89-6	Iron	19600	B	0.61	0.61	2.0	2.0
7439-92-1	Lead	23.6		0.081	0.081	0.28	0.28
7439-96-5	Manganese	1370	B	0.032	0.041	0.10	0.11
7440-02-0	Nickel	18.8	B	0.037	0.037	0.12	0.12
7440-22-4	Silver	0.17		0.035	0.035	0.11	0.11
7440-62-2	Vanadium	21.2		0.022	0.022	0.069	0.069
7440-66-6	Zinc	47.4		0.081	0.081	0.24	0.24

CT LABORATORIES
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1

INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-030-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	95.8	Lab Sample ID:	870204
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71911	Analysis Date/Time	11/22/2010 08:13
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-09-7	Potassium	848		11	11	36	38
7440-23-5	Sodium	57.7		4.2	4.0	13	14

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-030-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	95.8	Lab Sample ID:	870204
Analytical Method:	EPA 7471A	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72018	Analysis Date/Time	11/24/2010 10:05
Analytical Prep Batch #:	35531	Prep. Date/Time:	11/23/2010 15:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-97-6	Mercury	0.055		0.0025	0.0025	0.0082	0.0082

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-030-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	95.8	Lab Sample ID:	870204
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71910	Analysis Date/Time	12/03/2010 14:37
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7782-49-2	Selenium	1.2		0.15	0.15	0.88	0.88

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1

INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-030-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	95.8	Lab Sample ID:	870204
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	5.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71910	Analysis Date/Time	11/29/2010 17:12
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-47-3	Chromium	82.7		0.099	0.099	0.33	0.33
7440-48-4	Cobalt	9.5		0.078	0.078	0.26	0.26
7440-02-0	Nickel	15.8		0.094	0.094	0.32	0.32
7440-28-0	Thallium	1.3		0.21	0.21	0.73	0.73

CT LABORATORIES
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1

INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-030-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	95.8	Lab Sample ID:	870204
Analytical Method:	EPA 6010C	Date Received:	11/11/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71910	Analysis Date/Time	11/19/2010 21:31
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7429-90-5	Aluminum	9290		0.084	0.084	0.25	0.25
7440-36-0	Antimony	0.99		0.17	0.17	0.56	0.56
7440-38-2	Arsenic	10.3		0.27	0.27	0.94	0.94
7440-39-3	Barium	114	B	0.017	0.017	0.056	0.056
7440-41-7	Beryllium	0.69		0.0084	0.0084	0.025	0.025
7440-43-9	Cadmium	1.0		0.013	0.017	0.044	0.044
7440-70-2	Calcium	3660	B	0.13	0.31	1.0	1.0
7440-50-8	Copper	11.5	B	0.13	0.13	0.42	0.42
7439-89-6	Iron	20300		0.63	0.63	2.1	2.1
7439-92-1	Lead	31.7		0.084	0.084	0.29	0.29
7439-95-4	Magnesium	1950	B	0.25	0.25	0.84	0.84
7439-96-5	Manganese	1300		0.033	0.042	0.10	0.11
7440-22-4	Silver	0.21		0.035	0.035	0.12	0.12
7440-62-2	Vanadium	20.4	B	0.023	0.023	0.071	0.071
7440-66-6	Zinc	52.2		0.084	0.084	0.25	0.25

CT LABORATORIES
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Sample No.

ICV

2A-1

INITIAL CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71911 Lab Sample ID: 874795

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Potassium	11/22/10	07:28	100000	105000	105	90	110	P
Sodium	11/22/10	07:28	100000	101000	101	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

ICV

2A-1

INITIAL CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71910 Lab Sample ID: 874986

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Aluminum	11/19/10	10:31	12000	11500	96	90	110	P
Antimony	11/19/10	10:31	500.0	501.0	100	90	110	P
Arsenic	11/19/10	10:31	2000	1980	99	90	110	P
Barium	11/19/10	10:31	2000	2090	104	90	110	P
Beryllium	11/19/10	10:31	50.00	52.60	105	90	110	P
Cadmium	11/19/10	10:31	50.00	50.00	100	90	110	P
Calcium	11/19/10	10:31	10000	9950	100	90	110	P
Chromium	11/19/10	10:31	200.0	179.0	90	90	110	P
Cobalt	11/19/10	10:31	500.0	462.0	92	90	110	P
Copper	11/19/10	10:31	250.0	251.0	100	90	110	P
Iron	11/19/10	10:31	5000	4780	96	90	110	P
Lead	11/19/10	10:31	500.0	512.0	102	90	110	P
Magnesium	11/19/10	10:31	10000	10300	103	90	110	P
Manganese	11/19/10	10:31	500.0	488.0	98	90	110	P
Nickel	11/19/10	10:31	500.0	473.0	95	90	110	P
Selenium	11/19/10	10:31	2000	2010	100	90	110	P
Silver	11/19/10	10:31	120.0	117.0	98	90	110	P
Thallium	11/19/10	10:31	2000	2100	105	90	110	P
Vanadium	11/19/10	10:31	500.0	483.0	97	90	110	P
Zinc	11/19/10	10:31	500.0	473.0	95	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

ICV

2A-1

INITIAL CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71910 Lab Sample ID: 877034

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Aluminum	11/29/10	15:08	12000	12500	104	90	110	P
Antimony	11/29/10	15:08	500.0	516.0	103	90	110	P
Arsenic	11/29/10	15:08	2000	2130	106	90	110	P
Barium	11/29/10	15:08	2000	2110	106	90	110	P
Beryllium	11/29/10	15:08	50.00	51.70	103	90	110	P
Cadmium	11/29/10	15:08	50.00	49.90	100	90	110	P
Calcium	11/29/10	15:08	10000	10500	105	90	110	P
Chromium	11/29/10	15:08	200.0	199.0	100	90	110	P
Cobalt	11/29/10	15:08	500.0	459.0	92	90	110	P
Copper	11/29/10	15:08	250.0	257.0	103	90	110	P
Iron	11/29/10	15:08	5000	5230	105	90	110	P
Lead	11/29/10	15:08	500.0	527.0	105	90	110	P
Magnesium	11/29/10	15:08	10000	9920	99	90	110	P
Manganese	11/29/10	15:08	500.0	531.0	106	90	110	P
Nickel	11/29/10	15:08	500.0	514.0	103	90	110	P
Selenium	11/29/10	15:08	2000	2210	110	90	110	P
Silver	11/29/10	15:08	120.0	116.0	97	90	110	P
Thallium	11/29/10	15:08	2000	1830	92	90	110	P
Vanadium	11/29/10	15:08	500.0	527.0	105	90	110	P
Zinc	11/29/10	15:08	500.0	534.0	107	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

ICV

2A-1

INITIAL CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72202 Lab Sample ID: 878366

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Potassium	12/3/10	14:16	100000	98000	98	90	110	P
Sodium	12/3/10	14:16	100000	92200	92	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

ICV

2A-1

INITIAL CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72204 Lab Sample ID: 878391

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Potassium	12/3/10	14:16	100000	98000	98	90	110	P
Sodium	12/3/10	14:16	100000	92200	92	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

ICV

2A-1

INITIAL CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72203 Lab Sample ID: 878852

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Aluminum	12/3/10	14:04	12000	12200	102	90	110	P
Antimony	12/3/10	14:04	500.0	536.0	107	90	110	P
Arsenic	12/3/10	14:04	2000	2050	102	90	110	P
Barium	12/3/10	14:04	2000	2060	103	90	110	P
Beryllium	12/3/10	14:04	50.00	50.50	101	90	110	P
Cadmium	12/3/10	14:04	50.00	49.80	100	90	110	P
Calcium	12/3/10	14:04	10000	10100	101	90	110	P
Chromium	12/3/10	14:04	200.0	197.0	98	90	110	P
Cobalt	12/3/10	14:04	500.0	518.0	104	90	110	P
Copper	12/3/10	14:04	250.0	252.0	101	90	110	P
Iron	12/3/10	14:04	5000	4920	98	90	110	P
Lead	12/3/10	14:04	500.0	499.0	100	90	110	P
Magnesium	12/3/10	14:04	10000	10400	104	90	110	P
Manganese	12/3/10	14:04	500.0	508.0	102	90	110	P
Nickel	12/3/10	14:04	500.0	495.0	99	90	110	P
Selenium	12/3/10	14:04	2000	2120	106	90	110	P
Silver	12/3/10	14:04	120.0	116.0	97	90	110	P
Thallium	12/3/10	14:04	2000	2110	106	90	110	P
Vanadium	12/3/10	14:04	500.0	491.0	98	90	110	P
Zinc	12/3/10	14:04	500.0	505.0	101	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

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Sample No.

ICV

2A-1

INITIAL CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71910 Lab Sample ID: 878859

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Calcium	12/3/10	14:04	10000	10100	101	90	110	P
Selenium	12/3/10	14:04	2000	2120	106	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

ICV

2A-1

INITIAL CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72201 Lab Sample ID: 878880

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Aluminum	12/3/10	14:04	12000	12200	102	90	110	P
Antimony	12/3/10	14:04	500.0	536.0	107	90	110	P
Arsenic	12/3/10	14:04	2000	2050	102	90	110	P
Barium	12/3/10	14:04	2000	2060	103	90	110	P
Beryllium	12/3/10	14:04	50.00	50.50	101	90	110	P
Cadmium	12/3/10	14:04	50.00	49.80	100	90	110	P
Calcium	12/3/10	14:04	10000	10100	101	90	110	P
Chromium	12/3/10	14:04	200.0	197.0	98	90	110	P
Cobalt	12/3/10	14:04	500.0	518.0	104	90	110	P
Copper	12/3/10	14:04	250.0	252.0	101	90	110	P
Iron	12/3/10	14:04	5000	4920	98	90	110	P
Lead	12/3/10	14:04	500.0	499.0	100	90	110	P
Magnesium	12/3/10	14:04	10000	10400	104	90	110	P
Manganese	12/3/10	14:04	500.0	508.0	102	90	110	P
Nickel	12/3/10	14:04	500.0	495.0	99	90	110	P
Selenium	12/3/10	14:04	2000	2120	106	90	110	P
Silver	12/3/10	14:04	120.0	116.0	97	90	110	P
Thallium	12/3/10	14:04	2000	2110	106	90	110	P
Vanadium	12/3/10	14:04	500.0	491.0	98	90	110	P
Zinc	12/3/10	14:04	500.0	505.0	101	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

ICV

2A-1

INITIAL CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72201 Lab Sample ID: 881159

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Aluminum	12/9/10	15:34	12000	12700	106	90	110	P
Antimony	12/9/10	15:34	500.0	519.0	104	90	110	P
Arsenic	12/9/10	15:34	2000	2130	106	90	110	P
Barium	12/9/10	15:34	2000	2080	104	90	110	P
Beryllium	12/9/10	15:34	50.00	51.10	102	90	110	P
Cadmium	12/9/10	15:34	50.00	50.50	101	90	110	P
Calcium	12/9/10	15:34	10000	10500	105	90	110	P
Chromium	12/9/10	15:34	200.0	204.0	102	90	110	P
Cobalt	12/9/10	15:34	500.0	510.0	102	90	110	P
Copper	12/9/10	15:34	250.0	259.0	104	90	110	P
Iron	12/9/10	15:34	5000	5150	103	90	110	P
Lead	12/9/10	15:34	500.0	521.0	104	90	110	P
Magnesium	12/9/10	15:34	10000	9440	94	90	110	P
Manganese	12/9/10	15:34	500.0	521.0	104	90	110	P
Nickel	12/9/10	15:34	500.0	530.0	106	90	110	P
Selenium	12/9/10	15:34	2000	2190	110	90	110	P
Silver	12/9/10	15:34	120.0	122.0	102	90	110	P
Thallium	12/9/10	15:34	2000	2090	104	90	110	P
Vanadium	12/9/10	15:34	500.0	514.0	103	90	110	P
Zinc	12/9/10	15:34	500.0	531.0	106	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

ICV

2A-1

INITIAL CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72203 Lab Sample ID: 881166

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Iron	12/9/10	15:34	5000	5150	103	90	110	P
Magnesium	12/9/10	15:34	10000	9440	94	90	110	P
Manganese	12/9/10	15:34	500.0	521.0	104	90	110	P
Selenium	12/9/10	15:34	2000	2190	110	90	110	P
Thallium	12/9/10	15:34	2000	2090	104	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

ICV

2A-1

INITIAL CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72018 Lab Sample ID: 875791

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Mercury	11/24/10 09:35	3.00	2.93	98	90	110	CV

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

ICV

2A-1

INITIAL CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72326 Lab Sample ID: 879513

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Mercury	12/8/10 13:28	3.00	2.89	96	90	110	CV

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

ICV

2A-1

INITIAL CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72327 Lab Sample ID: 879535

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Mercury	12/8/10 13:28	3.00	2.89	96	90	110	CV

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72018 Lab Sample ID: 875795

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Mercury	11/24/10 09:57	3.00	2.69	90	80	120	CV

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72018 Lab Sample ID: 875797

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Mercury	11/24/10	10:19	3.00	2.43	81	80	120	CV

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72018 Lab Sample ID: 875799

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Mercury	11/24/10	10:42	3.00	2.65	88	80	120	CV

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72326 Lab Sample ID: 879517

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Mercury	12/8/10	13:50	3.00	2.91	97	80	120	CV

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72326 Lab Sample ID: 879519

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Mercury	12/8/10	14:12	3.00	2.80	93	80	120	CV

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72327 Lab Sample ID: 879537

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Mercury	12/8/10	13:50	3.00	2.91	97	80	120	CV

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72327 Lab Sample ID: 879540

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Mercury	12/8/10	14:12	3.00	2.80	93	80	120	CV

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72327 Lab Sample ID: 879543

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Mercury	12/8/10	14:35	3.00	2.90	97	80	120	CV

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72327 Lab Sample ID: 879545

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Mercury	12/8/10	14:57	3.00	2.74	91	80	120	CV

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71911 Lab Sample ID: 874802

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Potassium	11/22/10	08:05	100000	94700	95	90	110	P
Sodium	11/22/10	08:05	100000	89700	90	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71911 Lab Sample ID: 874804

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Potassium	11/22/10	08:36	100000	104000	104	90	110	P
Sodium	11/22/10	08:36	100000	100000	100	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71911 Lab Sample ID: 874806

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Potassium	11/22/10	09:06	100000	103000	103	90	110	P
Sodium	11/22/10	09:06	100000	102000	102	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71910 Lab Sample ID: 874993

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M	
Aluminum	11/19/10	18:33	5000	5110	102	90	110	P	
Antimony	11/19/10	18:33	5000	5140	103	90	110	P	
Arsenic	11/19/10	18:33	5000	4820	96	90	110	P	
Barium	11/19/10	18:33	5000	5230	105	90	110	P	
Beryllium	11/19/10	18:33	500.0	479.0	96	90	110	P	
Cadmium	11/19/10	18:33	500.0	468.0	94	90	110	P	
Calcium	11/19/10	18:33	5000	6450	129	90	110	P	FAIL
Chromium	11/19/10	18:33	5000	4370	87	90	110	P	FAIL
Cobalt	11/19/10	18:33	5000	4360	87	90	110	P	FAIL
Copper	11/19/10	18:33	5000	5170	103	90	110	P	
Iron	11/19/10	18:33	5000	4760	95	90	110	P	
Lead	11/19/10	18:33	5000	5280	106	90	110	P	
Magnesium	11/19/10	18:33	5000	5880	118	90	110	P	FAIL
Manganese	11/19/10	18:33	5000	4590	92	90	110	P	
Nickel	11/19/10	18:33	5000	5420	108	90	110	P	
Selenium	11/19/10	18:33	5000	4900	98	90	110	P	
Silver	11/19/10	18:33	500.0	482.0	96	90	110	P	
Thallium	11/19/10	18:33	5000	5080	102	90	110	P	
Vanadium	11/19/10	18:33	5000	4930	99	90	110	P	
Zinc	11/19/10	18:33	5000	4900	98	90	110	P	

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71910 Lab Sample ID: 874994

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M	
Aluminum	11/19/10	21:10	5000	4530	91	90	110	P	
Antimony	11/19/10	21:10	5000	5310	106	90	110	P	
Arsenic	11/19/10	21:10	5000	4870	97	90	110	P	
Barium	11/19/10	21:10	5000	5220	104	90	110	P	
Beryllium	11/19/10	21:10	500.0	463.0	93	90	110	P	
Cadmium	11/19/10	21:10	500.0	478.0	96	90	110	P	
Calcium	11/19/10	21:10	5000	5140	103	90	110	P	
Chromium	11/19/10	21:10	5000	4250	85	90	110	P	FAIL
Cobalt	11/19/10	21:10	5000	4190	84	90	110	P	FAIL
Copper	11/19/10	21:10	5000	5340	107	90	110	P	
Iron	11/19/10	21:10	5000	5350	107	90	110	P	
Lead	11/19/10	21:10	5000	5410	108	90	110	P	
Magnesium	11/19/10	21:10	5000	5250	105	90	110	P	
Manganese	11/19/10	21:10	5000	4480	90	90	110	P	
Nickel	11/19/10	21:10	5000	5650	113	90	110	P	FAIL
Selenium	11/19/10	21:10	5000	4870	97	90	110	P	
Silver	11/19/10	21:10	500.0	493.0	99	90	110	P	
Thallium	11/19/10	21:10	5000	5120	102	90	110	P	
Vanadium	11/19/10	21:10	5000	5040	101	90	110	P	
Zinc	11/19/10	21:10	5000	5080	102	90	110	P	

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71910 Lab Sample ID: 874996

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M	
Aluminum	11/19/10	22:30	5000	4950	99	90	110	P	
Antimony	11/19/10	22:30	5000	5290	106	90	110	P	
Arsenic	11/19/10	22:30	5000	4850	97	90	110	P	
Barium	11/19/10	22:30	5000	5230	105	90	110	P	
Beryllium	11/19/10	22:30	500.0	459.0	92	90	110	P	
Cadmium	11/19/10	22:30	500.0	476.0	95	90	110	P	
Calcium	11/19/10	22:30	5000	5140	103	90	110	P	
Chromium	11/19/10	22:30	5000	4220	84	90	110	P	FAIL
Cobalt	11/19/10	22:30	5000	4150	83	90	110	P	FAIL
Copper	11/19/10	22:30	5000	5280	106	90	110	P	
Iron	11/19/10	22:30	5000	4770	95	90	110	P	
Lead	11/19/10	22:30	5000	5430	109	90	110	P	
Magnesium	11/19/10	22:30	5000	5120	102	90	110	P	
Manganese	11/19/10	22:30	5000	4730	95	90	110	P	
Nickel	11/19/10	22:30	5000	5570	111	90	110	P	FAIL
Selenium	11/19/10	22:30	5000	5060	101	90	110	P	
Silver	11/19/10	22:30	500.0	491.0	98	90	110	P	
Thallium	11/19/10	22:30	5000	5070	101	90	110	P	
Vanadium	11/19/10	22:30	5000	5000	100	90	110	P	
Zinc	11/19/10	22:30	5000	4970	99	90	110	P	

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71910 Lab Sample ID: 875077

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M	
Aluminum	11/19/10	19:52	5000	4970	99	90	110	P	
Antimony	11/19/10	19:52	5000	5300	106	90	110	P	
Arsenic	11/19/10	19:52	5000	4860	97	90	110	P	
Barium	11/19/10	19:52	5000	5290	106	90	110	P	
Beryllium	11/19/10	19:52	500.0	471.0	94	90	110	P	
Cadmium	11/19/10	19:52	500.0	473.0	95	90	110	P	
Calcium	11/19/10	19:52	5000	5940	119	90	110	P	FAIL
Chromium	11/19/10	19:52	5000	4310	86	90	110	P	FAIL
Cobalt	11/19/10	19:52	5000	4270	85	90	110	P	FAIL
Copper	11/19/10	19:52	5000	5280	106	90	110	P	
Iron	11/19/10	19:52	5000	4480	90	90	110	P	
Lead	11/19/10	19:52	5000	5390	108	90	110	P	
Magnesium	11/19/10	19:52	5000	5700	114	90	110	P	FAIL
Manganese	11/19/10	19:52	5000	4520	90	90	110	P	
Nickel	11/19/10	19:52	5000	5570	111	90	110	P	FAIL
Selenium	11/19/10	19:52	5000	4950	99	90	110	P	
Silver	11/19/10	19:52	500.0	487.0	97	90	110	P	
Thallium	11/19/10	19:52	5000	4860	97	90	110	P	
Vanadium	11/19/10	19:52	5000	5000	100	90	110	P	
Zinc	11/19/10	19:52	5000	5020	100	90	110	P	

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71910 Lab Sample ID: 875079

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M	
Aluminum	11/19/10	18:39	500.0	516.0	103	90	110	P	
Antimony	11/19/10	18:39	500.0	534.0	107	90	110	P	
Arsenic	11/19/10	18:39	500.0	475.0	95	90	110	P	
Barium	11/19/10	18:39	500.0	460.0	92	90	110	P	
Beryllium	11/19/10	18:39	50.00	53.00	106	90	110	P	
Cadmium	11/19/10	18:39	50.00	52.70	105	90	110	P	
Calcium	11/19/10	18:39	500.0	620.0	124	90	110	P	FAIL
Chromium	11/19/10	18:39	500.0	463.0	93	90	110	P	
Cobalt	11/19/10	18:39	500.0	558.0	112	90	110	P	FAIL
Copper	11/19/10	18:39	500.0	532.0	106	90	110	P	
Iron	11/19/10	18:39	500.0	499.0	100	90	110	P	
Lead	11/19/10	18:39	500.0	480.0	96	90	110	P	
Magnesium	11/19/10	18:39	500.0	544.0	109	90	110	P	
Manganese	11/19/10	18:39	500.0	469.0	94	90	110	P	
Nickel	11/19/10	18:39	500.0	499.0	100	90	110	P	
Selenium	11/19/10	18:39	500.0	500.0	100	90	110	P	
Silver	11/19/10	18:39	50.00	52.40	105	90	110	P	
Thallium	11/19/10	18:39	500.0	533.0	107	90	110	P	
Vanadium	11/19/10	18:39	500.0	505.0	101	90	110	P	
Zinc	11/19/10	18:39	500.0	474.0	95	90	110	P	

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71910 Lab Sample ID: 875081

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M	
Aluminum	11/19/10	19:57	500.0	525.0	105	90	110	P	
Antimony	11/19/10	19:57	500.0	547.0	109	90	110	P	
Arsenic	11/19/10	19:57	500.0	481.0	96	90	110	P	
Barium	11/19/10	19:57	500.0	520.0	104	90	110	P	
Beryllium	11/19/10	19:57	50.00	52.70	105	90	110	P	
Cadmium	11/19/10	19:57	50.00	53.90	108	90	110	P	
Calcium	11/19/10	19:57	500.0	663.0	133	90	110	P	FAIL
Chromium	11/19/10	19:57	500.0	460.0	92	90	110	P	
Cobalt	11/19/10	19:57	500.0	423.0	85	90	110	P	FAIL
Copper	11/19/10	19:57	500.0	541.0	108	90	110	P	
Iron	11/19/10	19:57	500.0	495.0	99	90	110	P	
Lead	11/19/10	19:57	500.0	480.0	96	90	110	P	
Magnesium	11/19/10	19:57	500.0	560.0	112	90	110	P	FAIL
Manganese	11/19/10	19:57	500.0	454.0	91	90	110	P	
Nickel	11/19/10	19:57	500.0	508.0	102	90	110	P	
Selenium	11/19/10	19:57	500.0	498.0	100	90	110	P	
Silver	11/19/10	19:57	50.00	52.60	105	90	110	P	
Thallium	11/19/10	19:57	500.0	543.0	109	90	110	P	
Vanadium	11/19/10	19:57	500.0	506.0	101	90	110	P	
Zinc	11/19/10	19:57	500.0	478.0	96	90	110	P	

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71910 Lab Sample ID: 875746

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M	
Aluminum	11/19/10	21:15	500.0	540.0	108	90	110	P	
Antimony	11/19/10	21:15	500.0	552.0	110	90	110	P	
Arsenic	11/19/10	21:15	500.0	487.0	97	90	110	P	
Barium	11/19/10	21:15	500.0	524.0	105	90	110	P	
Beryllium	11/19/10	21:15	50.00	52.50	105	90	110	P	
Cadmium	11/19/10	21:15	50.00	54.80	110	90	110	P	
Chromium	11/19/10	21:15	500.0	462.0	92	90	110	P	
Cobalt	11/19/10	21:15	500.0	580.0	116	90	110	P	FAIL
Copper	11/19/10	21:15	500.0	548.0	110	90	110	P	
Iron	11/19/10	21:15	500.0	509.0	102	90	110	P	
Lead	11/19/10	21:15	500.0	492.0	98	90	110	P	
Manganese	11/19/10	21:15	500.0	454.0	91	90	110	P	
Nickel	11/19/10	21:15	500.0	514.0	103	90	110	P	
Selenium	11/19/10	21:15	500.0	507.0	101	90	110	P	
Silver	11/19/10	21:15	50.00	52.30	105	90	110	P	
Thallium	11/19/10	21:15	500.0	552.0	110	90	110	P	
Vanadium	11/19/10	21:15	500.0	509.0	102	90	110	P	
Zinc	11/19/10	21:15	500.0	485.0	97	90	110	P	

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71910 Lab Sample ID: 875748

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M	
Aluminum	11/19/10	22:36	500.0	529.0	106	90	110	P	
Antimony	11/19/10	22:36	500.0	543.0	109	90	110	P	
Arsenic	11/19/10	22:36	500.0	472.0	94	90	110	P	
Barium	11/19/10	22:36	500.0	448.0	90	90	110	P	
Beryllium	11/19/10	22:36	50.00	51.30	103	90	110	P	
Cadmium	11/19/10	22:36	50.00	53.20	106	90	110	P	
Chromium	11/19/10	22:36	500.0	453.0	91	90	110	P	
Cobalt	11/19/10	22:36	500.0	567.0	113	90	110	P	FAIL
Copper	11/19/10	22:36	500.0	537.0	107	90	110	P	
Iron	11/19/10	22:36	500.0	510.0	102	90	110	P	
Lead	11/19/10	22:36	500.0	484.0	97	90	110	P	
Manganese	11/19/10	22:36	500.0	477.0	95	90	110	P	
Nickel	11/19/10	22:36	500.0	502.0	100	90	110	P	
Selenium	11/19/10	22:36	500.0	495.0	99	90	110	P	
Silver	11/19/10	22:36	50.00	51.70	103	90	110	P	
Thallium	11/19/10	22:36	500.0	538.0	108	90	110	P	
Vanadium	11/19/10	22:36	500.0	498.0	100	90	110	P	
Zinc	11/19/10	22:36	500.0	474.0	95	90	110	P	

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71910 Lab Sample ID: 875750

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M	
Aluminum	11/19/10	23:55	500.0	538.0	108	90	110	P	
Antimony	11/19/10	23:55	500.0	557.0	111	90	110	P	FAIL
Arsenic	11/19/10	23:55	500.0	491.0	98	90	110	P	
Barium	11/19/10	23:55	500.0	517.0	103	90	110	P	
Beryllium	11/19/10	23:55	50.00	51.30	103	90	110	P	
Cadmium	11/19/10	23:55	50.00	55.00	110	90	110	P	
Calcium	11/19/10	23:55	500.0	545.0	109	90	110	P	
Chromium	11/19/10	23:55	500.0	469.0	94	90	110	P	
Cobalt	11/19/10	23:55	500.0	411.0	82	90	110	P	FAIL
Copper	11/19/10	23:55	500.0	554.0	111	90	110	P	FAIL
Iron	11/19/10	23:55	500.0	464.0	93	90	110	P	
Lead	11/19/10	23:55	500.0	495.0	99	90	110	P	
Magnesium	11/19/10	23:55	500.0	500.0	100	90	110	P	
Manganese	11/19/10	23:55	500.0	443.0	89	90	110	P	FAIL
Nickel	11/19/10	23:55	500.0	518.0	104	90	110	P	
Selenium	11/19/10	23:55	500.0	509.0	102	90	110	P	
Silver	11/19/10	23:55	50.00	53.40	107	90	110	P	
Thallium	11/19/10	23:55	500.0	553.0	111	90	110	P	FAIL
Vanadium	11/19/10	23:55	500.0	512.0	102	90	110	P	
Zinc	11/19/10	23:55	500.0	489.0	98	90	110	P	

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71910 Lab Sample ID: 875752

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M	
Aluminum	11/19/10	23:49	5000	5090	102	90	110	P	
Antimony	11/19/10	23:49	5000	5590	112	90	110	P	FAIL
Arsenic	11/19/10	23:49	5000	5130	103	90	110	P	
Barium	11/19/10	23:49	5000	5490	110	90	110	P	
Beryllium	11/19/10	23:49	500.0	477.0	95	90	110	P	
Cadmium	11/19/10	23:49	500.0	502.0	100	90	110	P	
Calcium	11/19/10	23:49	5000	5080	102	90	110	P	
Chromium	11/19/10	23:49	5000	4440	89	90	110	P	FAIL
Cobalt	11/19/10	23:49	5000	4340	87	90	110	P	FAIL
Copper	11/19/10	23:49	5000	5620	112	90	110	P	FAIL
Iron	11/19/10	23:49	5000	4490	90	90	110	P	
Lead	11/19/10	23:49	5000	5730	115	90	110	P	FAIL
Magnesium	11/19/10	23:49	5000	5260	105	90	110	P	
Manganese	11/19/10	23:49	5000	4630	93	90	110	P	
Nickel	11/19/10	23:49	5000	5940	119	90	110	P	FAIL
Selenium	11/19/10	23:49	5000	5280	106	90	110	P	
Silver	11/19/10	23:49	500.0	517.0	103	90	110	P	
Thallium	11/19/10	23:49	5000	4800	96	90	110	P	
Vanadium	11/19/10	23:49	5000	5300	106	90	110	P	
Zinc	11/19/10	23:49	5000	5310	106	90	110	P	

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71910 Lab Sample ID: 877041

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M	
Aluminum	11/29/10	16:44	500.0	543.0	109	90	110	P	
Antimony	11/29/10	16:44	500.0	527.0	105	90	110	P	
Arsenic	11/29/10	16:44	500.0	538.0	108	90	110	P	
Barium	11/29/10	16:44	500.0	535.0	107	90	110	P	
Beryllium	11/29/10	16:44	50.00	51.90	104	90	110	P	
Cadmium	11/29/10	16:44	50.00	51.80	104	90	110	P	
Calcium	11/29/10	16:44	500.0	502.0	100	90	110	P	
Chromium	11/29/10	16:44	500.0	522.0	104	90	110	P	
Cobalt	11/29/10	16:44	500.0	526.0	105	90	110	P	
Copper	11/29/10	16:44	500.0	543.0	109	90	110	P	
Iron	11/29/10	16:44	500.0	551.0	110	90	110	P	
Lead	11/29/10	16:44	500.0	533.0	107	90	110	P	
Magnesium	11/29/10	16:44	500.0	533.0	107	90	110	P	
Manganese	11/29/10	16:44	500.0	529.0	106	90	110	P	
Nickel	11/29/10	16:44	500.0	516.0	103	90	110	P	
Selenium	11/29/10	16:44	500.0	558.0	112	90	110	P	FAIL
Silver	11/29/10	16:44	50.00	51.40	103	90	110	P	
Thallium	11/29/10	16:44	500.0	473.0	95	90	110	P	
Vanadium	11/29/10	16:44	500.0	536.0	107	90	110	P	
Zinc	11/29/10	16:44	500.0	531.0	106	90	110	P	

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71910 Lab Sample ID: 877043

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Antimony	11/29/10	18:03	500.0	501.0	100	90	110	P
Arsenic	11/29/10	18:03	500.0	516.0	103	90	110	P
Beryllium	11/29/10	18:03	50.00	53.60	107	90	110	P
Cobalt	11/29/10	18:03	500.0	527.0	105	90	110	P
Lead	11/29/10	18:03	500.0	539.0	108	90	110	P
Magnesium	11/29/10	18:03	500.0	535.0	107	90	110	P
Manganese	11/29/10	18:03	500.0	535.0	107	90	110	P
Nickel	11/29/10	18:03	500.0	524.0	105	90	110	P
Selenium	11/29/10	18:03	500.0	538.0	108	90	110	P
Silver	11/29/10	18:03	50.00	51.00	102	90	110	P
Thallium	11/29/10	18:03	500.0	487.0	97	90	110	P
Vanadium	11/29/10	18:03	500.0	539.0	108	90	110	P
Zinc	11/29/10	18:03	500.0	536.0	107	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71910 Lab Sample ID: 877045

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Aluminum	11/29/10	19:22	500.0	536.0	107	90	110	P
Antimony	11/29/10	19:22	500.0	506.0	101	90	110	P
Arsenic	11/29/10	19:22	500.0	546.0	109	90	110	P
Barium	11/29/10	19:22	500.0	531.0	106	90	110	P
Beryllium	11/29/10	19:22	50.00	52.20	104	90	110	P
Cadmium	11/29/10	19:22	50.00	50.70	101	90	110	P
Calcium	11/29/10	19:22	500.0	495.0	99	90	110	P
Chromium	11/29/10	19:22	500.0	510.0	102	90	110	P
Cobalt	11/29/10	19:22	500.0	517.0	103	90	110	P
Copper	11/29/10	19:22	500.0	533.0	107	90	110	P
Iron	11/29/10	19:22	500.0	552.0	110	90	110	P
Lead	11/29/10	19:22	500.0	530.0	106	90	110	P
Magnesium	11/29/10	19:22	500.0	480.0	96	90	110	P
Manganese	11/29/10	19:22	500.0	526.0	105	90	110	P
Nickel	11/29/10	19:22	500.0	514.0	103	90	110	P
Selenium	11/29/10	19:22	500.0	552.0	110	90	110	P
Silver	11/29/10	19:22	50.00	51.00	102	90	110	P
Thallium	11/29/10	19:22	500.0	457.0	91	90	110	P
Vanadium	11/29/10	19:22	500.0	541.0	108	90	110	P
Zinc	11/29/10	19:22	500.0	526.0	105	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71910 Lab Sample ID: 877051

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Aluminum	11/29/10	19:16	5000	5230	105	90	110	P
Antimony	11/29/10	19:16	5000	4970	99	90	110	P
Arsenic	11/29/10	19:16	5000	5110	102	90	110	P
Barium	11/29/10	19:16	5000	5310	106	90	110	P
Beryllium	11/29/10	19:16	500.0	519.0	104	90	110	P
Cadmium	11/29/10	19:16	500.0	519.0	104	90	110	P
Calcium	11/29/10	19:16	5000	5080	102	90	110	P
Chromium	11/29/10	19:16	5000	5080	102	90	110	P
Cobalt	11/29/10	19:16	5000	5100	102	90	110	P
Copper	11/29/10	19:16	5000	5180	104	90	110	P
Iron	11/29/10	19:16	5000	5490	110	90	110	P
Lead	11/29/10	19:16	5000	5290	106	90	110	P
Magnesium	11/29/10	19:16	5000	4610	92	90	110	P
Manganese	11/29/10	19:16	5000	5290	106	90	110	P
Nickel	11/29/10	19:16	5000	5160	103	90	110	P
Selenium	11/29/10	19:16	5000	5290	106	90	110	P
Silver	11/29/10	19:16	500.0	466.0	93	90	110	P
Thallium	11/29/10	19:16	5000	4620	92	90	110	P
Vanadium	11/29/10	19:16	5000	5260	105	90	110	P
Zinc	11/29/10	19:16	5000	5180	104	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71910 Lab Sample ID: 877053

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Aluminum	11/29/10	17:58	5000	5370	107	90	110	P
Antimony	11/29/10	17:58	5000	4980	100	90	110	P
Arsenic	11/29/10	17:58	5000	5180	104	90	110	P
Beryllium	11/29/10	17:58	500.0	512.0	102	90	110	P
Cadmium	11/29/10	17:58	500.0	531.0	106	90	110	P
Calcium	11/29/10	17:58	5000	5100	102	90	110	P
Chromium	11/29/10	17:58	5000	5120	102	90	110	P
Cobalt	11/29/10	17:58	5000	5180	104	90	110	P
Copper	11/29/10	17:58	5000	5440	109	90	110	P
Iron	11/29/10	17:58	5000	5080	102	90	110	P
Lead	11/29/10	17:58	5000	5350	107	90	110	P
Magnesium	11/29/10	17:58	5000	5250	105	90	110	P
Manganese	11/29/10	17:58	5000	5330	107	90	110	P
Nickel	11/29/10	17:58	5000	5040	101	90	110	P
Selenium	11/29/10	17:58	5000	5510	110	90	110	P
Silver	11/29/10	17:58	500.0	466.0	93	90	110	P
Thallium	11/29/10	17:58	5000	4920	98	90	110	P
Vanadium	11/29/10	17:58	5000	5190	104	90	110	P
Zinc	11/29/10	17:58	5000	5160	103	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71910 Lab Sample ID: 877055

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Aluminum	11/29/10	16:39	5000	5240	105	90	110	P
Antimony	11/29/10	16:39	5000	4780	96	90	110	P
Arsenic	11/29/10	16:39	5000	4990	100	90	110	P
Barium	11/29/10	16:39	5000	5150	103	90	110	P
Beryllium	11/29/10	16:39	500.0	498.0	100	90	110	P
Cadmium	11/29/10	16:39	500.0	501.0	100	90	110	P
Calcium	11/29/10	16:39	5000	4920	98	90	110	P
Chromium	11/29/10	16:39	5000	4880	98	90	110	P
Cobalt	11/29/10	16:39	5000	4970	99	90	110	P
Copper	11/29/10	16:39	5000	5050	101	90	110	P
Iron	11/29/10	16:39	5000	5290	106	90	110	P
Lead	11/29/10	16:39	5000	5090	102	90	110	P
Magnesium	11/29/10	16:39	5000	4600	92	90	110	P
Manganese	11/29/10	16:39	5000	5120	102	90	110	P
Nickel	11/29/10	16:39	5000	5150	103	90	110	P
Selenium	11/29/10	16:39	5000	5120	102	90	110	P
Thallium	11/29/10	16:39	5000	4550	91	90	110	P
Vanadium	11/29/10	16:39	5000	5020	100	90	110	P
Zinc	11/29/10	16:39	5000	5020	100	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72202 Lab Sample ID: 878379

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Potassium	12/3/10	16:52	100000	97500	98	90	110	P
Sodium	12/3/10	16:52	100000	92100	92	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72202 Lab Sample ID: 878383

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Potassium	12/3/10	17:22	100000	97400	97	90	110	P
Sodium	12/3/10	17:22	100000	92900	93	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72204 Lab Sample ID: 878401

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Potassium	12/3/10	15:23	100000	98400	98	90	110	P
Sodium	12/3/10	15:23	100000	92500	92	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72204 Lab Sample ID: 878404

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Potassium	12/3/10	15:52	100000	97100	97	90	110	P
Sodium	12/3/10	15:52	100000	93500	94	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72204 Lab Sample ID: 878408

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Potassium	12/3/10	16:22	100000	97400	97	90	110	P
Sodium	12/3/10	16:22	100000	91000	91	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72204 Lab Sample ID: 878411

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Potassium	12/3/10	16:52	100000	97500	98	90	110	P
Sodium	12/3/10	16:52	100000	92100	92	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71910 Lab Sample ID: 878864

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Calcium	12/3/10	15:40	500.0	532.0	106	90	110	P
Selenium	12/3/10	15:40	500.0	517.0	103	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71910 Lab Sample ID: 878866

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Calcium	12/3/10	16:58	5000	5120	102	90	110	P
Selenium	12/3/10	16:58	5000	5140	103	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71910 Lab Sample ID: 878868

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Calcium	12/3/10	16:58	500.0	540.0	108	90	110	P
Selenium	12/3/10	16:58	500.0	496.0	99	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71910 Lab Sample ID: 878878

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Calcium	12/3/10	15:35	5000	5040	101	90	110	P
Selenium	12/3/10	15:35	5000	5070	101	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72201 Lab Sample ID: 878885

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Aluminum	12/3/10	22:04	5000	5220	104	90	110	P
Antimony	12/3/10	22:04	5000	4890	98	90	110	P
Arsenic	12/3/10	22:04	5000	4970	99	90	110	P
Barium	12/3/10	22:04	5000	5230	105	90	110	P
Beryllium	12/3/10	22:04	500.0	516.0	103	90	110	P
Cadmium	12/3/10	22:04	500.0	483.0	97	90	110	P
Calcium	12/3/10	22:04	5000	4900	98	90	110	P
Chromium	12/3/10	22:04	5000	4970	99	90	110	P
Cobalt	12/3/10	22:04	5000	5240	105	90	110	P
Copper	12/3/10	22:04	5000	5030	101	90	110	P
Iron	12/3/10	22:04	5000	5090	102	90	110	P
Lead	12/3/10	22:04	5000	5080	102	90	110	P
Magnesium	12/3/10	22:04	5000	4890	98	90	110	P
Manganese	12/3/10	22:04	5000	5200	104	90	110	P
Nickel	12/3/10	22:04	5000	5000	100	90	110	P
Selenium	12/3/10	22:04	5000	5020	100	90	110	P
Silver	12/3/10	22:04	500.0	481.0	96	90	110	P
Thallium	12/3/10	22:04	5000	4930	99	90	110	P
Vanadium	12/3/10	22:04	5000	5170	103	90	110	P
Zinc	12/3/10	22:04	5000	4920	98	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72201 Lab Sample ID: 878887

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M	
Aluminum	12/3/10	23:22	5000	5260	105	90	110	P	
Antimony	12/3/10	23:22	5000	5040	101	90	110	P	
Arsenic	12/3/10	23:22	5000	5130	103	90	110	P	
Barium	12/3/10	23:22	5000	5320	106	90	110	P	
Beryllium	12/3/10	23:22	500.0	528.0	106	90	110	P	
Cadmium	12/3/10	23:22	500.0	525.0	105	90	110	P	
Calcium	12/3/10	23:22	5000	5100	102	90	110	P	
Chromium	12/3/10	23:22	5000	5200	104	90	110	P	
Cobalt	12/3/10	23:22	5000	5480	110	90	110	P	
Copper	12/3/10	23:22	5000	5180	104	90	110	P	
Iron	12/3/10	23:22	5000	5110	102	90	110	P	
Lead	12/3/10	23:22	5000	5230	105	90	110	P	
Magnesium	12/3/10	23:22	5000	4730	95	90	110	P	
Manganese	12/3/10	23:22	5000	5620	112	90	110	P	FAIL
Nickel	12/3/10	23:22	5000	5140	103	90	110	P	
Selenium	12/3/10	23:22	5000	5210	104	90	110	P	
Silver	12/3/10	23:22	500.0	484.0	97	90	110	P	
Thallium	12/3/10	23:22	5000	5070	101	90	110	P	
Vanadium	12/3/10	23:22	5000	5500	110	90	110	P	
Zinc	12/3/10	23:22	5000	5130	103	90	110	P	

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72201 Lab Sample ID: 878889

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M	
Aluminum	12/4/10	00:38	5000	5080	102	90	110	P	
Antimony	12/4/10	00:38	5000	5220	104	90	110	P	
Arsenic	12/4/10	00:38	5000	4960	99	90	110	P	
Barium	12/4/10	00:38	5000	4910	98	90	110	P	
Beryllium	12/4/10	00:38	500.0	494.0	99	90	110	P	
Cadmium	12/4/10	00:38	500.0	507.0	101	90	110	P	
Calcium	12/4/10	00:38	5000	4770	95	90	110	P	
Chromium	12/4/10	00:38	5000	4950	99	90	110	P	
Cobalt	12/4/10	00:38	5000	5240	105	90	110	P	
Copper	12/4/10	00:38	5000	4780	96	90	110	P	
Iron	12/4/10	00:38	5000	4510	90	90	110	P	
Lead	12/4/10	00:38	5000	5030	101	90	110	P	
Magnesium	12/4/10	00:38	5000	4370	87	90	110	P	FAIL
Manganese	12/4/10	00:38	5000	5310	106	90	110	P	
Nickel	12/4/10	00:38	5000	4740	95	90	110	P	
Selenium	12/4/10	00:38	5000	4730	95	90	110	P	
Silver	12/4/10	00:38	500.0	491.0	98	90	110	P	
Thallium	12/4/10	00:38	5000	4670	93	90	110	P	
Vanadium	12/4/10	00:38	5000	5460	109	90	110	P	
Zinc	12/4/10	00:38	5000	5020	100	90	110	P	

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72201 Lab Sample ID: 878895

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Aluminum	12/3/10	22:10	500.0	460.0	92	90	110	P
Antimony	12/3/10	22:10	500.0	510.0	102	90	110	P
Arsenic	12/3/10	22:10	500.0	509.0	102	90	110	P
Barium	12/3/10	22:10	500.0	498.0	100	90	110	P
Beryllium	12/3/10	22:10	50.00	49.10	98	90	110	P
Cadmium	12/3/10	22:10	50.00	49.70	99	90	110	P
Calcium	12/3/10	22:10	500.0	500.0	100	90	110	P
Chromium	12/3/10	22:10	500.0	485.0	97	90	110	P
Cobalt	12/3/10	22:10	500.0	501.0	100	90	110	P
Copper	12/3/10	22:10	500.0	519.0	104	90	110	P
Lead	12/3/10	22:10	500.0	516.0	103	90	110	P
Magnesium	12/3/10	22:10	500.0	511.0	102	90	110	P
Manganese	12/3/10	22:10	500.0	498.0	100	90	110	P
Nickel	12/3/10	22:10	500.0	513.0	103	90	110	P
Selenium	12/3/10	22:10	500.0	539.0	108	90	110	P
Silver	12/3/10	22:10	50.00	53.10	106	90	110	P
Thallium	12/3/10	22:10	500.0	525.0	105	90	110	P
Vanadium	12/3/10	22:10	500.0	515.0	103	90	110	P
Zinc	12/3/10	22:10	500.0	503.0	101	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72201 Lab Sample ID: 878902

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Aluminum	12/3/10	23:27	500.0	484.0	97	90	110	P
Antimony	12/3/10	23:27	500.0	510.0	102	90	110	P
Arsenic	12/3/10	23:27	500.0	512.0	102	90	110	P
Barium	12/3/10	23:27	500.0	516.0	103	90	110	P
Beryllium	12/3/10	23:27	50.00	51.50	103	90	110	P
Cadmium	12/3/10	23:27	50.00	53.60	107	90	110	P
Calcium	12/3/10	23:27	500.0	545.0	109	90	110	P
Chromium	12/3/10	23:27	500.0	526.0	105	90	110	P
Cobalt	12/3/10	23:27	500.0	529.0	106	90	110	P
Copper	12/3/10	23:27	500.0	549.0	110	90	110	P
Iron	12/3/10	23:27	500.0	476.0	95	90	110	P
Lead	12/3/10	23:27	500.0	532.0	106	90	110	P
Magnesium	12/3/10	23:27	500.0	528.0	106	90	110	P
Manganese	12/3/10	23:27	500.0	526.0	105	90	110	P
Nickel	12/3/10	23:27	500.0	532.0	106	90	110	P
Selenium	12/3/10	23:27	500.0	524.0	105	90	110	P
Silver	12/3/10	23:27	50.00	53.50	107	90	110	P
Thallium	12/3/10	23:27	500.0	546.0	109	90	110	P
Vanadium	12/3/10	23:27	500.0	532.0	106	90	110	P
Zinc	12/3/10	23:27	500.0	523.0	105	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72201 Lab Sample ID: 878904

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Aluminum	12/4/10	00:43	500.0	484.0	97	90	110	P
Antimony	12/4/10	00:43	500.0	552.0	110	90	110	P
Arsenic	12/4/10	00:43	500.0	523.0	105	90	110	P
Barium	12/4/10	00:43	500.0	530.0	106	90	110	P
Beryllium	12/4/10	00:43	50.00	49.30	99	90	110	P
Cadmium	12/4/10	00:43	50.00	46.00	92	90	110	P
Calcium	12/4/10	00:43	500.0	544.0	109	90	110	P
Chromium	12/4/10	00:43	500.0	456.0	91	90	110	P
Cobalt	12/4/10	00:43	500.0	487.0	97	90	110	P
Copper	12/4/10	00:43	500.0	498.0	100	90	110	P
Iron	12/4/10	00:43	500.0	452.0	90	90	110	P
Lead	12/4/10	00:43	500.0	523.0	105	90	110	P
Magnesium	12/4/10	00:43	500.0	521.0	104	90	110	P
Manganese	12/4/10	00:43	500.0	460.0	92	90	110	P
Nickel	12/4/10	00:43	500.0	517.0	103	90	110	P
Selenium	12/4/10	00:43	500.0	486.0	97	90	110	P
Silver	12/4/10	00:43	50.00	53.20	106	90	110	P
Thallium	12/4/10	00:43	500.0	503.0	101	90	110	P
Vanadium	12/4/10	00:43	500.0	528.0	106	90	110	P
Zinc	12/4/10	00:43	500.0	507.0	101	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72203 Lab Sample ID: 879406

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Aluminum	12/3/10	18:11	5000	5290	106	90	110	P
Antimony	12/3/10	18:11	5000	4780	96	90	110	P
Arsenic	12/3/10	18:11	5000	5020	100	90	110	P
Barium	12/3/10	18:11	5000	5320	106	90	110	P
Beryllium	12/3/10	18:11	500.0	539.0	108	90	110	P
Cadmium	12/3/10	18:11	500.0	516.0	103	90	110	P
Calcium	12/3/10	18:11	5000	5110	102	90	110	P
Chromium	12/3/10	18:11	5000	5150	103	90	110	P
Cobalt	12/3/10	18:11	5000	5430	109	90	110	P
Copper	12/3/10	18:11	5000	5120	102	90	110	P
Iron	12/3/10	18:11	5000	5420	108	90	110	P
Lead	12/3/10	18:11	5000	5080	102	90	110	P
Magnesium	12/3/10	18:11	5000	5250	105	90	110	P
Manganese	12/3/10	18:11	5000	5430	109	90	110	P
Nickel	12/3/10	18:11	5000	5120	102	90	110	P
Selenium	12/3/10	18:11	5000	5150	103	90	110	P
Silver	12/3/10	18:11	500.0	470.0	94	90	110	P
Thallium	12/3/10	18:11	5000	5070	101	90	110	P
Vanadium	12/3/10	18:11	5000	5150	103	90	110	P
Zinc	12/3/10	18:11	5000	5000	100	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72203 Lab Sample ID: 879408

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Aluminum	12/3/10	19:29	5000	5080	102	90	110	P
Antimony	12/3/10	19:29	5000	5120	102	90	110	P
Arsenic	12/3/10	19:29	5000	5020	100	90	110	P
Barium	12/3/10	19:29	5000	4830	97	90	110	P
Beryllium	12/3/10	19:29	500.0	503.0	101	90	110	P
Calcium	12/3/10	19:29	5000	4800	96	90	110	P
Chromium	12/3/10	19:29	5000	5050	101	90	110	P
Cobalt	12/3/10	19:29	5000	5440	109	90	110	P
Copper	12/3/10	19:29	5000	4760	95	90	110	P
Lead	12/3/10	19:29	5000	4940	99	90	110	P
Nickel	12/3/10	19:29	5000	4720	94	90	110	P
Selenium	12/3/10	19:29	5000	4810	96	90	110	P
Silver	12/3/10	19:29	500.0	470.0	94	90	110	P
Thallium	12/3/10	19:29	5000	4710	94	90	110	P
Vanadium	12/3/10	19:29	5000	5400	108	90	110	P
Zinc	12/3/10	19:29	5000	5010	100	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72203 Lab Sample ID: 879410

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Antimony	12/3/10	18:16	500.0	486.0	97	90	110	P
Arsenic	12/3/10	18:16	500.0	515.0	103	90	110	P
Barium	12/3/10	18:16	500.0	535.0	107	90	110	P
Beryllium	12/3/10	18:16	50.00	50.40	101	90	110	P
Cadmium	12/3/10	18:16	50.00	52.70	105	90	110	P
Calcium	12/3/10	18:16	500.0	544.0	109	90	110	P
Chromium	12/3/10	18:16	500.0	512.0	102	90	110	P
Cobalt	12/3/10	18:16	500.0	514.0	103	90	110	P
Copper	12/3/10	18:16	500.0	533.0	107	90	110	P
Iron	12/3/10	18:16	500.0	451.0	90	90	110	P
Lead	12/3/10	18:16	500.0	517.0	103	90	110	P
Magnesium	12/3/10	18:16	500.0	517.0	103	90	110	P
Manganese	12/3/10	18:16	500.0	536.0	107	90	110	P
Nickel	12/3/10	18:16	500.0	518.0	104	90	110	P
Selenium	12/3/10	18:16	500.0	526.0	105	90	110	P
Silver	12/3/10	18:16	50.00	51.80	104	90	110	P
Thallium	12/3/10	18:16	500.0	545.0	109	90	110	P
Vanadium	12/3/10	18:16	500.0	510.0	102	90	110	P
Zinc	12/3/10	18:16	500.0	509.0	102	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72203 Lab Sample ID: 879413

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Aluminum	12/3/10	19:34	500.0	469.0	94	90	110	P
Antimony	12/3/10	19:34	500.0	521.0	104	90	110	P
Arsenic	12/3/10	19:34	500.0	519.0	104	90	110	P
Barium	12/3/10	19:34	500.0	537.0	107	90	110	P
Beryllium	12/3/10	19:34	50.00	53.00	106	90	110	P
Cadmium	12/3/10	19:34	50.00	51.90	104	90	110	P
Calcium	12/3/10	19:34	500.0	538.0	108	90	110	P
Chromium	12/3/10	19:34	500.0	520.0	104	90	110	P
Cobalt	12/3/10	19:34	500.0	524.0	105	90	110	P
Copper	12/3/10	19:34	500.0	540.0	108	90	110	P
Iron	12/3/10	19:34	500.0	460.0	92	90	110	P
Lead	12/3/10	19:34	500.0	530.0	106	90	110	P
Magnesium	12/3/10	19:34	500.0	539.0	108	90	110	P
Manganese	12/3/10	19:34	500.0	518.0	104	90	110	P
Nickel	12/3/10	19:34	500.0	535.0	107	90	110	P
Selenium	12/3/10	19:34	500.0	479.0	96	90	110	P
Silver	12/3/10	19:34	50.00	52.40	105	90	110	P
Thallium	12/3/10	19:34	500.0	547.0	109	90	110	P
Vanadium	12/3/10	19:34	500.0	526.0	105	90	110	P
Zinc	12/3/10	19:34	500.0	517.0	103	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

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CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72203 Lab Sample ID: 879416

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Aluminum	12/3/10	20:51	500.0	457.0	91	90	110	P
Antimony	12/3/10	20:51	500.0	544.0	109	90	110	P
Arsenic	12/3/10	20:51	500.0	513.0	103	90	110	P
Barium	12/3/10	20:51	500.0	523.0	105	90	110	P
Beryllium	12/3/10	20:51	50.00	49.30	99	90	110	P
Cadmium	12/3/10	20:51	50.00	45.70	91	90	110	P
Calcium	12/3/10	20:51	500.0	526.0	105	90	110	P
Chromium	12/3/10	20:51	500.0	457.0	91	90	110	P
Cobalt	12/3/10	20:51	500.0	484.0	97	90	110	P
Copper	12/3/10	20:51	500.0	494.0	99	90	110	P
Lead	12/3/10	20:51	500.0	519.0	104	90	110	P
Magnesium	12/3/10	20:51	500.0	517.0	103	90	110	P
Manganese	12/3/10	20:51	500.0	464.0	93	90	110	P
Nickel	12/3/10	20:51	500.0	514.0	103	90	110	P
Selenium	12/3/10	20:51	500.0	508.0	102	90	110	P
Silver	12/3/10	20:51	50.00	52.80	106	90	110	P
Thallium	12/3/10	20:51	500.0	498.0	100	90	110	P
Vanadium	12/3/10	20:51	500.0	522.0	104	90	110	P
Zinc	12/3/10	20:51	500.0	504.0	101	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72203 Lab Sample ID: 879418

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Aluminum	12/3/10	22:10	500.0	460.0	92	90	110	P
Antimony	12/3/10	22:10	500.0	510.0	102	90	110	P
Arsenic	12/3/10	22:10	500.0	509.0	102	90	110	P
Barium	12/3/10	22:10	500.0	498.0	100	90	110	P
Beryllium	12/3/10	22:10	50.00	49.10	98	90	110	P
Cadmium	12/3/10	22:10	50.00	49.70	99	90	110	P
Calcium	12/3/10	22:10	500.0	500.0	100	90	110	P
Chromium	12/3/10	22:10	500.0	485.0	97	90	110	P
Cobalt	12/3/10	22:10	500.0	501.0	100	90	110	P
Copper	12/3/10	22:10	500.0	519.0	104	90	110	P
Lead	12/3/10	22:10	500.0	516.0	103	90	110	P
Magnesium	12/3/10	22:10	500.0	511.0	102	90	110	P
Manganese	12/3/10	22:10	500.0	498.0	100	90	110	P
Nickel	12/3/10	22:10	500.0	513.0	103	90	110	P
Selenium	12/3/10	22:10	500.0	539.0	108	90	110	P
Silver	12/3/10	22:10	50.00	53.10	106	90	110	P
Thallium	12/3/10	22:10	500.0	525.0	105	90	110	P
Vanadium	12/3/10	22:10	500.0	515.0	103	90	110	P
Zinc	12/3/10	22:10	500.0	503.0	101	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
delivering more than data from your environmental analyses

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CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72203 Lab Sample ID: 879421

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Aluminum	12/3/10	22:04	5000	5220	104	90	110	P
Antimony	12/3/10	22:04	5000	4890	98	90	110	P
Arsenic	12/3/10	22:04	5000	4970	99	90	110	P
Barium	12/3/10	22:04	5000	5230	105	90	110	P
Beryllium	12/3/10	22:04	500.0	516.0	103	90	110	P
Cadmium	12/3/10	22:04	500.0	483.0	97	90	110	P
Calcium	12/3/10	22:04	5000	4900	98	90	110	P
Chromium	12/3/10	22:04	5000	4970	99	90	110	P
Cobalt	12/3/10	22:04	5000	5240	105	90	110	P
Copper	12/3/10	22:04	5000	5030	101	90	110	P
Iron	12/3/10	22:04	5000	5090	102	90	110	P
Lead	12/3/10	22:04	5000	5080	102	90	110	P
Magnesium	12/3/10	22:04	5000	4890	98	90	110	P
Manganese	12/3/10	22:04	5000	5200	104	90	110	P
Nickel	12/3/10	22:04	5000	5000	100	90	110	P
Selenium	12/3/10	22:04	5000	5020	100	90	110	P
Silver	12/3/10	22:04	500.0	481.0	96	90	110	P
Thallium	12/3/10	22:04	5000	4930	99	90	110	P
Vanadium	12/3/10	22:04	5000	5170	103	90	110	P
Zinc	12/3/10	22:04	5000	4920	98	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

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2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72203 Lab Sample ID: 879423

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Aluminum	12/3/10	20:46	5000	5000	100	90	110	P
Antimony	12/3/10	20:46	5000	5100	102	90	110	P
Arsenic	12/3/10	20:46	5000	4930	99	90	110	P
Barium	12/3/10	20:46	5000	4860	97	90	110	P
Beryllium	12/3/10	20:46	500.0	499.0	100	90	110	P
Calcium	12/3/10	20:46	5000	4760	95	90	110	P
Chromium	12/3/10	20:46	5000	4960	99	90	110	P
Cobalt	12/3/10	20:46	5000	5310	106	90	110	P
Copper	12/3/10	20:46	5000	4710	94	90	110	P
Iron	12/3/10	20:46	5000	4540	91	90	110	P
Lead	12/3/10	20:46	5000	4920	98	90	110	P
Manganese	12/3/10	20:46	5000	5360	107	90	110	P
Nickel	12/3/10	20:46	5000	4660	93	90	110	P
Selenium	12/3/10	20:46	5000	4700	94	90	110	P
Silver	12/3/10	20:46	500.0	476.0	95	90	110	P
Thallium	12/3/10	20:46	5000	4650	93	90	110	P
Vanadium	12/3/10	20:46	5000	5330	107	90	110	P
Zinc	12/3/10	20:46	5000	4950	99	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72203 Lab Sample ID: 881171

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Iron	12/9/10	17:07	500.0	471.0	94	90	110	P
Magnesium	12/9/10	17:07	500.0	532.0	106	90	110	P
Manganese	12/9/10	17:07	500.0	512.0	102	90	110	P
Selenium	12/9/10	17:07	500.0	524.0	105	90	110	P
Thallium	12/9/10	17:07	500.0	536.0	107	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72203 Lab Sample ID: 881173

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Iron	12/9/10	18:24	500.0	468.0	94	90	110	P
Magnesium	12/9/10	18:24	500.0	517.0	103	90	110	P
Manganese	12/9/10	18:24	500.0	505.0	101	90	110	P
Selenium	12/9/10	18:24	500.0	518.0	104	90	110	P
Thallium	12/9/10	18:24	500.0	525.0	105	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72203 Lab Sample ID: 881177

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Iron	12/9/10	19:39	500.0	449.0	90	90	110	P
Magnesium	12/9/10	19:39	500.0	455.0	91	90	110	P
Manganese	12/9/10	19:39	500.0	498.0	100	90	110	P
Selenium	12/9/10	19:39	500.0	511.0	102	90	110	P
Thallium	12/9/10	19:39	500.0	467.0	93	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72203 Lab Sample ID: 881179

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Iron	12/9/10	20:54	500.0	498.0	100	90	110	P
Magnesium	12/9/10	20:54	500.0	548.0	110	90	110	P
Manganese	12/9/10	20:54	500.0	507.0	101	90	110	P
Selenium	12/9/10	20:54	500.0	518.0	104	90	110	P
Thallium	12/9/10	20:54	500.0	508.0	102	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72203 Lab Sample ID: 881181

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Iron	12/9/10	22:09	500.0	460.0	92	90	110	P
Magnesium	12/9/10	22:09	500.0	518.0	104	90	110	P
Manganese	12/9/10	22:09	500.0	498.0	100	90	110	P
Selenium	12/9/10	22:09	500.0	497.0	99	90	110	P
Thallium	12/9/10	22:09	500.0	459.0	92	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72203 Lab Sample ID: 881183

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Iron	12/9/10	18:18	5000	5380	108	90	110	P
Magnesium	12/9/10	18:18	5000	5310	106	90	110	P
Manganese	12/9/10	18:18	5000	5280	106	90	110	P
Selenium	12/9/10	18:18	5000	5150	103	90	110	P
Thallium	12/9/10	18:18	5000	5150	103	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72203 Lab Sample ID: 881185

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Iron	12/9/10	19:34	5000	5210	104	90	110	P
Magnesium	12/9/10	19:34	5000	5320	106	90	110	P
Manganese	12/9/10	19:34	5000	4700	94	90	110	P
Selenium	12/9/10	19:34	5000	4750	95	90	110	P
Thallium	12/9/10	19:34	5000	4510	90	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72203 Lab Sample ID: 881188

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Iron	12/9/10	17:02	5000	5330	107	90	110	P
Magnesium	12/9/10	17:02	5000	5440	109	90	110	P
Manganese	12/9/10	17:02	5000	5070	101	90	110	P
Selenium	12/9/10	17:02	5000	4970	99	90	110	P
Thallium	12/9/10	17:02	5000	5420	108	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72203 Lab Sample ID: 881772

Calibration Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Iron	12/9/10	20:49	5000	5380	108	90	110	P
Magnesium	12/9/10	20:49	5000	5130	103	90	110	P
Manganese	12/9/10	20:49	5000	5250	105	90	110	P
Selenium	12/9/10	20:49	5000	5240	105	90	110	P
Thallium	12/9/10	20:49	5000	5170	103	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72203 Lab Sample ID: 881773

Calibration Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Iron	12/9/10	22:04	5000	5290	106	90	110	P
Magnesium	12/9/10	22:04	5000	5320	106	90	110	P
Manganese	12/9/10	22:04	5000	4770	95	90	110	P
Selenium	12/9/10	22:04	5000	4810	96	90	110	P
Thallium	12/9/10	22:04	5000	4680	94	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72201 Lab Sample ID: 881821

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Aluminum	12/9/10	20:49	5000	5460	109	90	110	P
Antimony	12/9/10	20:49	5000	5190	104	90	110	P
Arsenic	12/9/10	20:49	5000	5220	104	90	110	P
Barium	12/9/10	20:49	5000	5140	103	90	110	P
Beryllium	12/9/10	20:49	500.0	505.0	101	90	110	P
Cadmium	12/9/10	20:49	500.0	514.0	103	90	110	P
Calcium	12/9/10	20:49	5000	5370	107	90	110	P
Chromium	12/9/10	20:49	5000	5290	106	90	110	P
Cobalt	12/9/10	20:49	5000	5290	106	90	110	P
Copper	12/9/10	20:49	5000	5360	107	90	110	P
Iron	12/9/10	20:49	5000	5380	108	90	110	P
Lead	12/9/10	20:49	5000	5260	105	90	110	P
Magnesium	12/9/10	20:49	5000	5130	103	90	110	P
Manganese	12/9/10	20:49	5000	5250	105	90	110	P
Nickel	12/9/10	20:49	5000	5200	104	90	110	P
Selenium	12/9/10	20:49	5000	5240	105	90	110	P
Silver	12/9/10	20:49	500.0	497.0	99	90	110	P
Thallium	12/9/10	20:49	5000	5170	103	90	110	P
Vanadium	12/9/10	20:49	5000	5230	105	90	110	P
Zinc	12/9/10	20:49	5000	5340	107	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72201 Lab Sample ID: 881825

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Aluminum	12/9/10	20:54	500.0	535.0	107	90	110	P
Antimony	12/9/10	20:54	500.0	497.0	99	90	110	P
Arsenic	12/9/10	20:54	500.0	514.0	103	90	110	P
Barium	12/9/10	20:54	500.0	488.0	98	90	110	P
Beryllium	12/9/10	20:54	50.00	49.40	99	90	110	P
Cadmium	12/9/10	20:54	50.00	50.50	101	90	110	P
Calcium	12/9/10	20:54	500.0	491.0	98	90	110	P
Chromium	12/9/10	20:54	500.0	491.0	98	90	110	P
Cobalt	12/9/10	20:54	500.0	491.0	98	90	110	P
Copper	12/9/10	20:54	500.0	528.0	106	90	110	P
Iron	12/9/10	20:54	500.0	498.0	100	90	110	P
Lead	12/9/10	20:54	500.0	502.0	100	90	110	P
Magnesium	12/9/10	20:54	500.0	548.0	110	90	110	P
Manganese	12/9/10	20:54	500.0	507.0	101	90	110	P
Nickel	12/9/10	20:54	500.0	514.0	103	90	110	P
Selenium	12/9/10	20:54	500.0	518.0	104	90	110	P
Silver	12/9/10	20:54	50.00	50.50	101	90	110	P
Thallium	12/9/10	20:54	500.0	508.0	102	90	110	P
Vanadium	12/9/10	20:54	500.0	493.0	99	90	110	P
Zinc	12/9/10	20:54	500.0	499.0	100	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72201 Lab Sample ID: 881828

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Aluminum	12/9/10	22:09	500.0	547.0	109	90	110	P
Arsenic	12/9/10	22:09	500.0	486.0	97	90	110	P
Beryllium	12/9/10	22:09	50.00	47.00	94	90	110	P
Cadmium	12/9/10	22:09	50.00	49.40	99	90	110	P
Calcium	12/9/10	22:09	500.0	473.0	95	90	110	P
Chromium	12/9/10	22:09	500.0	495.0	99	90	110	P
Cobalt	12/9/10	22:09	500.0	453.0	91	90	110	P
Copper	12/9/10	22:09	500.0	528.0	106	90	110	P
Iron	12/9/10	22:09	500.0	460.0	92	90	110	P
Lead	12/9/10	22:09	500.0	515.0	103	90	110	P
Magnesium	12/9/10	22:09	500.0	518.0	104	90	110	P
Manganese	12/9/10	22:09	500.0	498.0	100	90	110	P
Selenium	12/9/10	22:09	500.0	497.0	99	90	110	P
Silver	12/9/10	22:09	50.00	49.30	99	90	110	P
Thallium	12/9/10	22:09	500.0	459.0	92	90	110	P
Vanadium	12/9/10	22:09	500.0	511.0	102	90	110	P
Zinc	12/9/10	22:09	500.0	514.0	103	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72201 Lab Sample ID: 881831

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Aluminum	12/9/10	23:24	500.0	550.0	110	90	110	P
Antimony	12/9/10	23:24	500.0	528.0	106	90	110	P
Arsenic	12/9/10	23:24	500.0	536.0	107	90	110	P
Barium	12/9/10	23:24	500.0	485.0	97	90	110	P
Beryllium	12/9/10	23:24	50.00	49.80	100	90	110	P
Cadmium	12/9/10	23:24	50.00	50.70	101	90	110	P
Calcium	12/9/10	23:24	500.0	499.0	100	90	110	P
Chromium	12/9/10	23:24	500.0	511.0	102	90	110	P
Cobalt	12/9/10	23:24	500.0	484.0	97	90	110	P
Copper	12/9/10	23:24	500.0	529.0	106	90	110	P
Iron	12/9/10	23:24	500.0	504.0	101	90	110	P
Lead	12/9/10	23:24	500.0	520.0	104	90	110	P
Magnesium	12/9/10	23:24	500.0	526.0	105	90	110	P
Manganese	12/9/10	23:24	500.0	515.0	103	90	110	P
Nickel	12/9/10	23:24	500.0	533.0	107	90	110	P
Selenium	12/9/10	23:24	500.0	522.0	104	90	110	P
Silver	12/9/10	23:24	50.00	48.60	97	90	110	P
Thallium	12/9/10	23:24	500.0	534.0	107	90	110	P
Vanadium	12/9/10	23:24	500.0	518.0	104	90	110	P
Zinc	12/9/10	23:24	500.0	513.0	103	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72201 Lab Sample ID: 881833

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Aluminum	12/9/10	23:19	5000	5350	107	90	110	P
Antimony	12/9/10	23:19	5000	5300	106	90	110	P
Arsenic	12/9/10	23:19	5000	5180	104	90	110	P
Barium	12/9/10	23:19	5000	4950	99	90	110	P
Beryllium	12/9/10	23:19	500.0	502.0	100	90	110	P
Cadmium	12/9/10	23:19	500.0	501.0	100	90	110	P
Calcium	12/9/10	23:19	5000	5470	109	90	110	P
Chromium	12/9/10	23:19	5000	5370	107	90	110	P
Cobalt	12/9/10	23:19	5000	5430	109	90	110	P
Copper	12/9/10	23:19	5000	5390	108	90	110	P
Iron	12/9/10	23:19	5000	5460	109	90	110	P
Lead	12/9/10	23:19	5000	5170	103	90	110	P
Magnesium	12/9/10	23:19	5000	5400	108	90	110	P
Manganese	12/9/10	23:19	5000	5170	103	90	110	P
Nickel	12/9/10	23:19	5000	4980	100	90	110	P
Selenium	12/9/10	23:19	5000	5300	106	90	110	P
Silver	12/9/10	23:19	500.0	488.0	98	90	110	P
Thallium	12/9/10	23:19	5000	5440	109	90	110	P
Vanadium	12/9/10	23:19	5000	5300	106	90	110	P
Zinc	12/9/10	23:19	5000	5430	109	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72201 Lab Sample ID: 881835

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Aluminum	12/9/10	22:04	5000	5320	106	90	110	P
Antimony	12/9/10	22:04	5000	5320	106	90	110	P
Arsenic	12/9/10	22:04	5000	5060	101	90	110	P
Barium	12/9/10	22:04	5000	4680	94	90	110	P
Beryllium	12/9/10	22:04	500.0	479.0	96	90	110	P
Cadmium	12/9/10	22:04	500.0	492.0	98	90	110	P
Calcium	12/9/10	22:04	5000	5320	106	90	110	P
Chromium	12/9/10	22:04	5000	5230	105	90	110	P
Cobalt	12/9/10	22:04	5000	5260	105	90	110	P
Copper	12/9/10	22:04	5000	5370	107	90	110	P
Iron	12/9/10	22:04	5000	5290	106	90	110	P
Lead	12/9/10	22:04	5000	5080	102	90	110	P
Magnesium	12/9/10	22:04	5000	5320	106	90	110	P
Manganese	12/9/10	22:04	5000	4770	95	90	110	P
Nickel	12/9/10	22:04	5000	4690	94	90	110	P
Selenium	12/9/10	22:04	5000	4810	96	90	110	P
Silver	12/9/10	22:04	500.0	484.0	97	90	110	P
Thallium	12/9/10	22:04	5000	4680	94	90	110	P
Vanadium	12/9/10	22:04	5000	5020	100	90	110	P
Zinc	12/9/10	22:04	5000	5320	106	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

MRL

2B

MRL STANDARD CHECK

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71911 Lab Sample ID: 874797

ICP MRL Standard Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Potassium	11/22/10	07:33	5000000	5280	106	80	120	P
Sodium	11/22/10	07:33	1000000	1090	109	80	120	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

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Sample No.

MRL

2B

MRL STANDARD CHECK

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71910 Lab Sample ID: 874988

ICP MRL Standard Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Aluminum	11/19/10	10:47	400.0	399.0	100	70	130	P
Antimony	11/19/10	10:47	20.00	17.10	86	70	130	P
Arsenic	11/19/10	10:47	10.00	9.33	93	70	130	P
Barium	11/19/10	10:47	10.00	10.00	100	70	130	P
Beryllium	11/19/10	10:47	4.00	4.29	107	70	130	P
Cadmium	11/19/10	10:47	5.00	5.32	106	70	130	P
Calcium	11/19/10	10:47	500.0	561.0	112	70	130	P
Chromium	11/19/10	10:47	10.00	9.03	90	70	130	P
Cobalt	11/19/10	10:47	10.00	11.30	113	70	130	P
Copper	11/19/10	10:47	10.00	10.80	108	70	130	P
Iron	11/19/10	10:47	300.0	318.0	106	70	130	P
Lead	11/19/10	10:47	10.00	8.86	89	70	130	P
Magnesium	11/19/10	10:47	500.0	497.0	99	70	130	P
Manganese	11/19/10	10:47	10.00	10.80	108	70	130	P
Nickel	11/19/10	10:47	10.00	8.67	87	70	130	P
Selenium	11/19/10	10:47	10.00	7.77	78	70	130	P
Silver	11/19/10	10:47	20.00	19.80	99	70	130	P
Thallium	11/19/10	10:47	20.00	22.80	114	70	130	P
Vanadium	11/19/10	10:47	10.00	10.00	100	70	130	P
Zinc	11/19/10	10:47	10.00	11.60	116	70	130	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

MRL

2B

MRL STANDARD CHECK

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71910 Lab Sample ID: 877036

ICP MRL Standard Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Aluminum	11/29/10	15:25	400.0	413.0	103	70	130	P
Antimony	11/29/10	15:25	20.00	14.90	74	70	130	P
Arsenic	11/29/10	15:25	10.00	11.20	112	70	130	P
Barium	11/29/10	15:25	10.00	10.80	108	70	130	P
Beryllium	11/29/10	15:25	4.00	4.33	108	70	130	P
Cadmium	11/29/10	15:25	5.00	5.11	102	70	130	P
Calcium	11/29/10	15:25	500.0	562.0	112	70	130	P
Chromium	11/29/10	15:25	10.00	9.38	94	70	130	P
Cobalt	11/29/10	15:25	10.00	11.20	112	70	130	P
Copper	11/29/10	15:25	10.00	11.80	118	70	130	P
Iron	11/29/10	15:25	300.0	286.0	95	70	130	P
Lead	11/29/10	15:25	10.00	10.10	101	70	130	P
Magnesium	11/29/10	15:25	500.0	497.0	99	70	130	P
Manganese	11/29/10	15:25	10.00	11.90	119	70	130	P
Nickel	11/29/10	15:25	10.00	11.00	110	70	130	P
Selenium	11/29/10	15:25	10.00	7.48	75	70	130	P
Silver	11/29/10	15:25	20.00	20.30	102	70	130	P
Thallium	11/29/10	15:25	20.00	22.30	112	70	130	P
Vanadium	11/29/10	15:25	10.00	9.72	97	70	130	P
Zinc	11/29/10	15:25	10.00	12.60	126	70	130	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

MRL

2B

MRL STANDARD CHECK

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72202 Lab Sample ID: 878368

ICP MRL Standard Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Potassium	12/3/10	14:21	5000000	5110	102	80	120	P
Sodium	12/3/10	14:21	1000000	1080	108	80	120	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

MRL

2B

MRL STANDARD CHECK

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72204 Lab Sample ID: 878393

ICP MRL Standard Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Potassium	12/3/10	14:21	5000000	5110	102	80	120	P
Sodium	12/3/10	14:21	1000000	1080	108	80	120	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

MRL

2B

MRL STANDARD CHECK

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72203 Lab Sample ID: 878855

ICP MRL Standard Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Aluminum	12/3/10	14:20	400.0	346.0	86	70	130	P
Antimony	12/3/10	14:20	20.00	20.50	102	70	130	P
Arsenic	12/3/10	14:20	10.00	7.68	77	70	130	P
Barium	12/3/10	14:20	10.00	9.83	98	70	130	P
Beryllium	12/3/10	14:20	4.00	3.95	99	70	130	P
Cadmium	12/3/10	14:20	5.00	5.00	100	70	130	P
Calcium	12/3/10	14:20	500.0	540.0	108	70	130	P
Chromium	12/3/10	14:20	10.00	10.90	109	70	130	P
Cobalt	12/3/10	14:20	10.00	10.40	104	70	130	P
Copper	12/3/10	14:20	10.00	11.30	113	70	130	P
Iron	12/3/10	14:20	300.0	289.0	96	70	130	P
Lead	12/3/10	14:20	10.00	12.00	120	70	130	P
Magnesium	12/3/10	14:20	500.0	522.0	104	70	130	P
Manganese	12/3/10	14:20	10.00	12.70	127	70	130	P
Nickel	12/3/10	14:20	10.00	10.20	102	70	130	P
Selenium	12/3/10	14:20	10.00	10.90	109	70	130	P
Silver	12/3/10	14:20	20.00	20.10	100	70	130	P
Thallium	12/3/10	14:20	20.00	24.60	123	70	130	P
Vanadium	12/3/10	14:20	10.00	9.89	99	70	130	P
Zinc	12/3/10	14:20	10.00	10.60	106	70	130	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

MRL

2B

MRL STANDARD CHECK

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71910 Lab Sample ID: 878861

ICP MRL Standard Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Calcium	12/3/10	14:20	500.0	540.0	108	80	120	P
Selenium	12/3/10	14:20	10.00	10.90	109	80	120	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

MRL

2B

MRL STANDARD CHECK

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72201 Lab Sample ID: 878882

ICP MRL Standard Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Aluminum	12/3/10	14:20	400.0	346.0	86	70	130	P
Antimony	12/3/10	14:20	20.00	20.50	102	70	130	P
Arsenic	12/3/10	14:20	10.00	7.68	77	70	130	P
Barium	12/3/10	14:20	10.00	9.83	98	70	130	P
Beryllium	12/3/10	14:20	4.00	3.95	99	70	130	P
Cadmium	12/3/10	14:20	5.00	5.00	100	70	130	P
Calcium	12/3/10	14:20	500.0	540.0	108	70	130	P
Chromium	12/3/10	14:20	10.00	10.90	109	70	130	P
Cobalt	12/3/10	14:20	10.00	10.40	104	70	130	P
Copper	12/3/10	14:20	10.00	11.30	113	70	130	P
Iron	12/3/10	14:20	300.0	289.0	96	70	130	P
Lead	12/3/10	14:20	10.00	12.00	120	70	130	P
Magnesium	12/3/10	14:20	500.0	522.0	104	70	130	P
Manganese	12/3/10	14:20	10.00	12.70	127	70	130	P
Nickel	12/3/10	14:20	10.00	10.20	102	70	130	P
Selenium	12/3/10	14:20	10.00	10.90	109	70	130	P
Silver	12/3/10	14:20	20.00	20.10	100	70	130	P
Thallium	12/3/10	14:20	20.00	24.60	123	70	130	P
Vanadium	12/3/10	14:20	10.00	9.89	99	70	130	P
Zinc	12/3/10	14:20	10.00	10.60	106	70	130	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

MRL

2B

MRL STANDARD CHECK

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72201 Lab Sample ID: 881161

ICP MRL Standard Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Aluminum	12/9/10	15:50	400.0	425.0	106	70	130	P
Antimony	12/9/10	15:50	20.00	21.50	108	70	130	P
Arsenic	12/9/10	15:50	10.00	10.90	109	70	130	P
Barium	12/9/10	15:50	10.00	10.00	100	70	130	P
Beryllium	12/9/10	15:50	4.00	3.93	98	70	130	P
Cadmium	12/9/10	15:50	5.00	5.20	104	70	130	P
Calcium	12/9/10	15:50	500.0	476.0	95	70	130	P
Chromium	12/9/10	15:50	10.00	7.95	80	70	130	P
Cobalt	12/9/10	15:50	10.00	10.10	101	70	130	P
Copper	12/9/10	15:50	10.00	11.00	110	70	130	P
Iron	12/9/10	15:50	300.0	286.0	95	70	130	P
Lead	12/9/10	15:50	10.00	11.50	115	70	130	P
Magnesium	12/9/10	15:50	500.0	528.0	106	70	130	P
Manganese	12/9/10	15:50	10.00	11.20	112	70	130	P
Nickel	12/9/10	15:50	10.00	10.10	101	70	130	P
Selenium	12/9/10	15:50	10.00	7.26	73	70	130	P
Silver	12/9/10	15:50	20.00	18.40	92	70	130	P
Thallium	12/9/10	15:50	20.00	20.40	102	70	130	P
Vanadium	12/9/10	15:50	10.00	9.13	91	70	130	P
Zinc	12/9/10	15:50	10.00	9.32	93	70	130	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

MRL

2B

MRL STANDARD CHECK

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72203 Lab Sample ID: 881168

ICP MRL Standard Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Iron	12/9/10	15:50	300.0	286.0	95	70	130	P
Magnesium	12/9/10	15:50	500.0	528.0	106	70	130	P
Manganese	12/9/10	15:50	10.00	11.20	112	70	130	P
Selenium	12/9/10	15:50	10.00	7.26	73	70	130	P
Thallium	12/9/10	15:50	20.00	20.40	102	70	130	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

ICB

3-1

INITIAL CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71911 Lab Sample ID: 874796

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Potassium	11/22/2010 07:30	193.0			400	P
Sodium	11/22/2010 07:30	16.00			150	P

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

ICB

3-1

INITIAL CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71910 Lab Sample ID: 874979

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M	
Aluminum	11/19/2010 10:36	-0.182			1.5	P	
Antimony	11/19/2010 10:36	1.43			3.0	P	
Arsenic	11/19/2010 10:36	-3.24			5.0	P	
Barium	11/19/2010 10:36	0.409			0.3	P	FAIL
Beryllium	11/19/2010 10:36	0.0200			0.15	P	
Cadmium	11/19/2010 10:36	-0.0320			0.3	P	
Calcium	11/19/2010 10:36	2.25			6.0	P	
Chromium	11/19/2010 10:36	-0.355			0.8	P	
Cobalt	11/19/2010 10:36	-0.0720			0.6	P	
Copper	11/19/2010 10:36	0.0610			2.4	P	
Iron	11/19/2010 10:36	-16.1			12	P	
Lead	11/19/2010 10:36	-1.88			1.7	P	
Magnesium	11/19/2010 10:36	5.61			5.0	P	FAIL
Manganese	11/19/2010 10:36	0.0540			0.6	P	
Nickel	11/19/2010 10:36	-1.86			0.7	P	
Selenium	11/19/2010 10:36	0.00200			2.6	P	
Silver	11/19/2010 10:36	-0.618			0.7	P	
Thallium	11/19/2010 10:36	-6.91			1.7	P	
Vanadium	11/19/2010 10:36	0.205			0.4	P	
Zinc	11/19/2010 10:36	-0.743			1.4	P	

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

3-1

INITIAL CALIBRATION BLANKS

ICB

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71910 Lab Sample ID: 877035

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Aluminum	11/29/2010 15:19	0.528			1.5	P
Antimony	11/29/2010 15:19	-8.22			3.0	P
Arsenic	11/29/2010 15:19	0.511			5.0	P
Barium	11/29/2010 15:19	-0.303			0.3	P
Beryllium	11/29/2010 15:19	0.116			0.15	P
Cadmium	11/29/2010 15:19	-0.0640			0.3	P
Calcium	11/29/2010 15:19	-2.53			6.0	P
Chromium	11/29/2010 15:19	-1.26			0.8	P
Cobalt	11/29/2010 15:19	0.319			0.6	P
Copper	11/29/2010 15:19	0.0260			2.4	P
Iron	11/29/2010 15:19	0			12	P
Lead	11/29/2010 15:19	-0.416			1.7	P
Magnesium	11/29/2010 15:19	2.11			5.0	P
Manganese	11/29/2010 15:19	0.521			0.6	P
Nickel	11/29/2010 15:19	-0.00700			0.7	P
Selenium	11/29/2010 15:19	-5.29			2.6	P
Silver	11/29/2010 15:19	-0.0380			0.7	P
Thallium	11/29/2010 15:19	0.188			1.7	P
Vanadium	11/29/2010 15:19	-1.10			0.4	P
Zinc	11/29/2010 15:19	-0.476			1.4	P

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

ICB

3-1

INITIAL CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72202 Lab Sample ID: 878367

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Potassium	12/03/2010 14:19	136.0			400	P
Sodium	12/03/2010 14:19	32.00			150	P

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

ICB

3-1

INITIAL CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72204 Lab Sample ID: 878392

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Potassium	12/03/2010 14:19	136.0			400	P
Sodium	12/03/2010 14:19	32.00			150	P

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

ICB

3-1

INITIAL CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72203 Lab Sample ID: 878854

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M	
Aluminum	12/03/2010 14:15	25.90			1.5	P	FAIL
Antimony	12/03/2010 14:15	-1.05			3.0	P	
Arsenic	12/03/2010 14:15	-8.14			5.0	P	
Barium	12/03/2010 14:15	0.479			0.3	P	FAIL
Beryllium	12/03/2010 14:15	0.0300			0.15	P	
Cadmium	12/03/2010 14:15	-0.0620			0.3	P	
Calcium	12/03/2010 14:15	25.40			6.0	P	FAIL
Chromium	12/03/2010 14:15	0.945			0.8	P	FAIL
Cobalt	12/03/2010 14:15	0.328			0.6	P	
Copper	12/03/2010 14:15	0.261			2.4	P	
Iron	12/03/2010 14:15	22.10			12	P	FAIL
Lead	12/03/2010 14:15	0.941			1.7	P	
Magnesium	12/03/2010 14:15	28.20			5.0	P	FAIL
Manganese	12/03/2010 14:15	0.414			0.6	P	
Nickel	12/03/2010 14:15	0.560			0.7	P	
Selenium	12/03/2010 14:15	-0.384			2.6	P	
Silver	12/03/2010 14:15	0.0160			0.7	P	
Thallium	12/03/2010 14:15	0.938			1.7	P	
Vanadium	12/03/2010 14:15	0.226			0.4	P	
Zinc	12/03/2010 14:15	-0.551			1.4	P	

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

ICB

3-1

INITIAL CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71910 Lab Sample ID: 878860

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M	
Calcium	12/03/2010 14:15	25.40			6.0	P	FAIL
Selenium	12/03/2010 14:15	-0.384			2.6	P	

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

ICB

3-1

INITIAL CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72201 Lab Sample ID: 878881

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M	
Aluminum	12/03/2010 14:15	25.90			1.5	P	FAIL
Antimony	12/03/2010 14:15	-1.05			3.0	P	
Arsenic	12/03/2010 14:15	-8.14			5.0	P	
Barium	12/03/2010 14:15	0.479			0.3	P	FAIL
Beryllium	12/03/2010 14:15	0.0300			0.15	P	
Cadmium	12/03/2010 14:15	-0.0620			0.3	P	
Calcium	12/03/2010 14:15	25.40			6.0	P	FAIL
Chromium	12/03/2010 14:15	0.945			0.8	P	FAIL
Cobalt	12/03/2010 14:15	0.328			0.6	P	
Copper	12/03/2010 14:15	0.261			2.4	P	
Iron	12/03/2010 14:15	22.10			12	P	FAIL
Lead	12/03/2010 14:15	0.941			1.7	P	
Magnesium	12/03/2010 14:15	28.20			5.0	P	FAIL
Manganese	12/03/2010 14:15	0.414			0.6	P	
Nickel	12/03/2010 14:15	0.560			0.7	P	
Selenium	12/03/2010 14:15	-0.384			2.6	P	
Silver	12/03/2010 14:15	0.0160			0.7	P	
Thallium	12/03/2010 14:15	0.938			1.7	P	
Vanadium	12/03/2010 14:15	0.226			0.4	P	
Zinc	12/03/2010 14:15	-0.551			1.4	P	

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

ICB

3-1

INITIAL CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72201 Lab Sample ID: 881160

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M	
Antimony	12/09/2010 15:45	2.53			3.0	P	
Arsenic	12/09/2010 15:45	-4.62			5.0	P	
Barium	12/09/2010 15:45	0.0230			0.3	P	
Beryllium	12/09/2010 15:45	-0.0690			0.15	P	
Cadmium	12/09/2010 15:45	-0.0840			0.3	P	
Calcium	12/09/2010 15:45	-11.1			6.0	P	
Cobalt	12/09/2010 15:45	-0.00500			0.6	P	
Copper	12/09/2010 15:45	-0.248			2.4	P	
Iron	12/09/2010 15:45	12.60			12	P	FAIL
Lead	12/09/2010 15:45	1.30			1.7	P	
Magnesium	12/09/2010 15:45	13.00			5.0	P	FAIL
Manganese	12/09/2010 15:45	0.0840			0.6	P	
Nickel	12/09/2010 15:45	-0.945			0.7	P	
Selenium	12/09/2010 15:45	-3.98			2.6	P	
Silver	12/09/2010 15:45	-0.548			0.7	P	
Thallium	12/09/2010 15:45	-2.13			1.7	P	
Vanadium	12/09/2010 15:45	-2.33			0.4	P	
Zinc	12/09/2010 15:45	-3.04			1.4	P	

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

ICB

3-1

INITIAL CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72203 Lab Sample ID: 881167

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M	
Iron	12/09/2010 15:45	12.60			12	P	FAIL
Magnesium	12/09/2010 15:45	13.00			5.0	P	FAIL
Manganese	12/09/2010 15:45	0.0840			0.6	P	
Selenium	12/09/2010 15:45	-3.98			2.6	P	
Thallium	12/09/2010 15:45	-2.13			1.7	P	

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

3-1

INITIAL CALIBRATION BLANKS

ICB

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72018 Lab Sample ID: 875792

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Mercury	11/24/2010 09:37	0	U	0.06	0.06	CV

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

ICB

3-1

INITIAL CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72326 Lab Sample ID: 879514

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Mercury	12/08/2010 13:29	0	U	0.06	0.06	CV

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

3-1

INITIAL CALIBRATION BLANKS

ICB

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72327 Lab Sample ID: 879536

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Mercury	12/08/2010 13:29	0	U	0.06	0.06	CV

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71911 Lab Sample ID: 874803

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Potassium	11/22/2010 08:08	125.0			400	P
Sodium	11/22/2010 08:08	-16.0			0.15	P

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
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Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71911 Lab Sample ID: 874805

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Potassium	11/22/2010 08:38	110.0			400	P
Sodium	11/22/2010 08:38	-19.0			150	P

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71911 Lab Sample ID: 874807

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Potassium	11/22/2010 09:09	100.0			400	P
Sodium	11/22/2010 09:09	-16.0			150	P

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71910 Lab Sample ID: 875080

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M	
Aluminum	11/19/2010 18:49	-9.51			1.5	P	
Antimony	11/19/2010 18:49	-0.671			3.0	P	
Arsenic	11/19/2010 18:49	-1.98			5.0	P	
Barium	11/19/2010 18:49	0.191			0.3	P	
Beryllium	11/19/2010 18:49	-0.0130			0.15	P	
Cadmium	11/19/2010 18:49	-0.126			0.3	P	
Calcium	11/19/2010 18:49	243.0			6.0	P	FAIL
Chromium	11/19/2010 18:49	-0.550			0.8	P	
Cobalt	11/19/2010 18:49	-0.340			0.6	P	
Copper	11/19/2010 18:49	5.45			2.4	P	FAIL
Iron	11/19/2010 18:49	-31.5			12	P	
Lead	11/19/2010 18:49	-4.68			1.7	P	
Magnesium	11/19/2010 18:49	109.0			5.0	P	FAIL
Manganese	11/19/2010 18:49	0.192			0.6	P	
Nickel	11/19/2010 18:49	-1.71			0.7	P	
Selenium	11/19/2010 18:49	-5.80			2.6	P	
Silver	11/19/2010 18:49	-0.175			0.7	P	
Thallium	11/19/2010 18:49	-0.105			1.7	P	
Vanadium	11/19/2010 18:49	0.425			0.4	P	FAIL
Zinc	11/19/2010 18:49	-0.529			1.4	P	

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
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Sample No

3-2

CCB

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71910 Lab Sample ID: 875082

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M	
Aluminum	11/19/2010 20:07	-8.29			1.5	P	
Antimony	11/19/2010 20:07	0.197			3.0	P	
Arsenic	11/19/2010 20:07	-10.6			5.0	P	
Barium	11/19/2010 20:07	0.778			0.3	P	FAIL
Beryllium	11/19/2010 20:07	-0.0880			0.15	P	
Cadmium	11/19/2010 20:07	-0.140			0.3	P	
Chromium	11/19/2010 20:07	-0.216			0.8	P	
Cobalt	11/19/2010 20:07	0.105			0.6	P	
Copper	11/19/2010 20:07	5.61			2.4	P	FAIL
Iron	11/19/2010 20:07	-30.3			12	P	
Lead	11/19/2010 20:07	-2.91			1.7	P	
Manganese	11/19/2010 20:07	-0.0990			0.6	P	
Nickel	11/19/2010 20:07	-1.78			0.7	P	
Selenium	11/19/2010 20:07	0.204			2.6	P	
Silver	11/19/2010 20:07	-0.00900			0.7	P	
Thallium	11/19/2010 20:07	2.94			1.7	P	FAIL
Vanadium	11/19/2010 20:07	-0.146			0.4	P	
Zinc	11/19/2010 20:07	-0.459			1.4	P	

** Detection Limit only reported if value was less than the control limit.
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less.

CT LABORATORIES
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Sample No

3-2

CCB

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71910 Lab Sample ID: 875747

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M	
Aluminum	11/19/2010 21:26	-7.52			1.5	P	
Antimony	11/19/2010 21:26	-1.19			3.0	P	
Arsenic	11/19/2010 21:26	-4.14			5.0	P	
Barium	11/19/2010 21:26	0.666			0.3	P	FAIL
Beryllium	11/19/2010 21:26	-0.0260			0.15	P	
Cadmium	11/19/2010 21:26	-0.0560			0.3	P	
Chromium	11/19/2010 21:26	-0.487			0.8	P	
Cobalt	11/19/2010 21:26	0.131			0.6	P	
Copper	11/19/2010 21:26	5.27			2.4	P	FAIL
Iron	11/19/2010 21:26	-30.0			12	P	
Lead	11/19/2010 21:26	-1.83			1.7	P	
Manganese	11/19/2010 21:26	0.186			0.6	P	
Nickel	11/19/2010 21:26	-2.23			0.7	P	
Selenium	11/19/2010 21:26	0.215			2.6	P	
Silver	11/19/2010 21:26	0.372			0.7	P	
Thallium	11/19/2010 21:26	-0.586			1.7	P	
Vanadium	11/19/2010 21:26	-1.20			0.4	P	
Zinc	11/19/2010 21:26	-0.581			1.4	P	

** Detection Limit only reported if value was less than the control limit.
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less.

CT LABORATORIES
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Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71910 Lab Sample ID: 875749

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M	
Aluminum	11/19/2010 22:46	-6.21			1.5	P	
Antimony	11/19/2010 22:46	-0.673			3.0	P	
Arsenic	11/19/2010 22:46	2.60			5.0	P	
Barium	11/19/2010 22:46	0.606			0.3	P	FAIL
Beryllium	11/19/2010 22:46	-0.0850			0.15	P	
Cadmium	11/19/2010 22:46	0.0890			0.3	P	
Calcium	11/19/2010 22:46	244.0			6.0	P	FAIL
Chromium	11/19/2010 22:46	-0.776			0.8	P	
Cobalt	11/19/2010 22:46	0.259			0.6	P	
Copper	11/19/2010 22:46	5.44			2.4	P	FAIL
Iron	11/19/2010 22:46	-25.8			12	P	
Lead	11/19/2010 22:46	-2.40			1.7	P	
Magnesium	11/19/2010 22:46	108.0			5.0	P	FAIL
Manganese	11/19/2010 22:46	0.286			0.6	P	
Nickel	11/19/2010 22:46	-1.76			0.7	P	
Selenium	11/19/2010 22:46	2.94			2.6	P	FAIL
Silver	11/19/2010 22:46	-0.159			0.7	P	
Thallium	11/19/2010 22:46	2.93			1.7	P	FAIL
Vanadium	11/19/2010 22:46	0.878			0.4	P	FAIL
Zinc	11/19/2010 22:46	-0.188			1.4	P	

** Detection Limit only reported if value was less than the control limit.
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less.

CT LABORATORIES
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Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71910 Lab Sample ID: 875751

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M	
Aluminum	11/20/2010 00:05	-10.3			1.5	P	
Antimony	11/20/2010 00:05	-1.17			3.0	P	
Arsenic	11/20/2010 00:05	-3.38			5.0	P	
Barium	11/20/2010 00:05	-0.0390			0.3	P	
Beryllium	11/20/2010 00:05	0.00700			0.15	P	
Cadmium	11/20/2010 00:05	-0.0740			0.3	P	
Calcium	11/20/2010 00:05	-27.2			6.0	P	
Chromium	11/20/2010 00:05	-0.502			0.8	P	
Cobalt	11/20/2010 00:05	-0.316			0.6	P	
Copper	11/20/2010 00:05	-0.126			2.4	P	
Iron	11/20/2010 00:05	-35.1			12	P	
Lead	11/20/2010 00:05	-1.67			1.7	P	
Magnesium	11/20/2010 00:05	-4.20			5.0	P	
Manganese	11/20/2010 00:05	-0.220			0.6	P	
Nickel	11/20/2010 00:05	-2.08			0.7	P	
Selenium	11/20/2010 00:05	7.75			2.6	P	FAIL
Silver	11/20/2010 00:05	-0.0900			0.7	P	
Thallium	11/20/2010 00:05	-6.77			1.7	P	
Vanadium	11/20/2010 00:05	0.881			0.4	P	FAIL
Zinc	11/20/2010 00:05	-1.01			1.4	P	

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71910 Lab Sample ID: 877042

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Aluminum	11/29/2010 16:55	0.113			1.5	P
Antimony	11/29/2010 16:55	-7.04			3.0	P
Arsenic	11/29/2010 16:55	-5.06			5.0	P
Barium	11/29/2010 16:55	0.0640			0.3	P
Beryllium	11/29/2010 16:55	0.0450			0.15	P
Cadmium	11/29/2010 16:55	0.0210			0.3	P
Calcium	11/29/2010 16:55	-3.37			6.0	P
Chromium	11/29/2010 16:55	-0.749			0.8	P
Cobalt	11/29/2010 16:55	0.167			0.6	P
Copper	11/29/2010 16:55	-0.194			2.4	P
Iron	11/29/2010 16:55	0			12	P
Lead	11/29/2010 16:55	-0.606			1.7	P
Magnesium	11/29/2010 16:55	0.657			5.0	P
Manganese	11/29/2010 16:55	0.469			0.6	P
Nickel	11/29/2010 16:55	-0.471			0.7	P
Selenium	11/29/2010 16:55	-6.57			2.6	P
Silver	11/29/2010 16:55	0.360			0.7	P
Thallium	11/29/2010 16:55	-3.03			1.7	P
Vanadium	11/29/2010 16:55	-0.749			0.4	P
Zinc	11/29/2010 16:55	-0.685			1.4	P

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
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Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71910 Lab Sample ID: 877044

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M	
Aluminum	11/29/2010 18:14	-6.72			1.5	P	
Antimony	11/29/2010 18:14	-9.73			3.0	P	
Arsenic	11/29/2010 18:14	-5.61			5.0	P	
Barium	11/29/2010 18:14	-0.382			0.3	P	
Beryllium	11/29/2010 18:14	0.0760			0.15	P	
Cadmium	11/29/2010 18:14	-0.0920			0.3	P	
Calcium	11/29/2010 18:14	-1.98			6.0	P	
Chromium	11/29/2010 18:14	-1.38			0.8	P	
Cobalt	11/29/2010 18:14	0.343			0.6	P	
Copper	11/29/2010 18:14	0.358			2.4	P	
Iron	11/29/2010 18:14	0			12	P	
Lead	11/29/2010 18:14	0.0130			1.7	P	
Magnesium	11/29/2010 18:14	0.961			5.0	P	
Manganese	11/29/2010 18:14	0.724			0.6	P	FAIL
Nickel	11/29/2010 18:14	0.149			0.7	P	
Selenium	11/29/2010 18:14	-5.25			2.6	P	
Silver	11/29/2010 18:14	0.0440			0.7	P	
Thallium	11/29/2010 18:14	-2.87			1.7	P	
Vanadium	11/29/2010 18:14	-1.82			0.4	P	
Zinc	11/29/2010 18:14	-0.616			1.4	P	

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
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Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71910 Lab Sample ID: 877046

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M	
Aluminum	11/29/2010 19:32	-5.18			1.5	P	
Antimony	11/29/2010 19:32	-8.16			3.0	P	
Arsenic	11/29/2010 19:32	-7.37			5.0	P	
Barium	11/29/2010 19:32	-0.228			0.3	P	
Beryllium	11/29/2010 19:32	0.0430			0.15	P	
Cadmium	11/29/2010 19:32	-0.0300			0.3	P	
Calcium	11/29/2010 19:32	-2.20			6.0	P	
Chromium	11/29/2010 19:32	-1.24			0.8	P	
Cobalt	11/29/2010 19:32	0.0680			0.6	P	
Copper	11/29/2010 19:32	-1.43			2.4	P	
Iron	11/29/2010 19:32	0			12	P	
Lead	11/29/2010 19:32	0.471			1.7	P	
Magnesium	11/29/2010 19:32	0.906			5.0	P	
Manganese	11/29/2010 19:32	0.685			0.6	P	FAIL
Nickel	11/29/2010 19:32	-0.306			0.7	P	
Selenium	11/29/2010 19:32	6.76			2.6	P	FAIL
Silver	11/29/2010 19:32	0.331			0.7	P	
Thallium	11/29/2010 19:32	-3.33			1.7	P	
Vanadium	11/29/2010 19:32	-1.65			0.4	P	
Zinc	11/29/2010 19:32	-0.581			1.4	P	

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
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Sample No

CCB

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CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72202 Lab Sample ID: 878380

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Potassium	12/03/2010 16:54	151.0			400	P
Sodium	12/03/2010 16:54	25.00			150	P

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
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Sample No

CCB

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CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72202 Lab Sample ID: 878384

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Potassium	12/03/2010 17:24	179.0			400	P
Sodium	12/03/2010 17:24	35.00			150	P

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
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Sample No

CCB

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CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72204 Lab Sample ID: 878402

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Potassium	12/03/2010 15:25	198.0			400	P
Sodium	12/03/2010 15:25	14.00			150	P

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
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Sample No

CCB

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CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72204 Lab Sample ID: 878405

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Potassium	12/03/2010 15:54	162.0			400	P
Sodium	12/03/2010 15:54	21.00			150	P

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

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Sample No

CCB

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CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72204 Lab Sample ID: 878409

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Potassium	12/03/2010 16:24	150.0			400	P
Sodium	12/03/2010 16:24	25.00			150	P

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
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Sample No

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CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72204 Lab Sample ID: 878412

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Potassium	12/03/2010 16:54	151.0			400	P
Sodium	12/03/2010 16:54	25.00			150	P

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
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Sample No

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CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71910 Lab Sample ID: 878865

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M	
Calcium	12/03/2010 15:50	6.91			6.0	P	FAIL
Selenium	12/03/2010 15:50	-6.35			2.6	P	

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
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Sample No

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CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71910 Lab Sample ID: 878867

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M	
Calcium	12/03/2010 17:08	10.50			6.0	P	FAIL
Selenium	12/03/2010 17:08	-4.51			2.6	P	

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
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Sample No

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CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72201 Lab Sample ID: 878896

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M	
Aluminum	12/03/2010 22:20	10.90			1.5	P	FAIL
Antimony	12/03/2010 22:20	-3.02			3.0	P	
Arsenic	12/03/2010 22:20	-5.26			5.0	P	
Barium	12/03/2010 22:20	1.10			0.3	P	FAIL
Beryllium	12/03/2010 22:20	0.162			0.15	P	FAIL
Cadmium	12/03/2010 22:20	-0.173			0.3	P	
Calcium	12/03/2010 22:20	14.90			6.0	P	FAIL
Chromium	12/03/2010 22:20	0.754			0.8	P	
Cobalt	12/03/2010 22:20	0.683			0.6	P	FAIL
Copper	12/03/2010 22:20	0.150			2.4	P	
Iron	12/03/2010 22:20	15.30			12	P	FAIL
Lead	12/03/2010 22:20	0.485			1.7	P	
Magnesium	12/03/2010 22:20	5.69			5.0	P	FAIL
Manganese	12/03/2010 22:20	1.24			0.6	P	FAIL
Nickel	12/03/2010 22:20	0.780			0.7	P	FAIL
Selenium	12/03/2010 22:20	1.06			2.6	P	
Silver	12/03/2010 22:20	-0.0670			0.7	P	
Thallium	12/03/2010 22:20	7.51			1.7	P	FAIL
Vanadium	12/03/2010 22:20	0.117			0.4	P	
Zinc	12/03/2010 22:20	-0.790			1.4	P	

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***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

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CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72201 Lab Sample ID: 878903

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M	
Aluminum	12/03/2010 23:38	16.10			1.5	P	FAIL
Antimony	12/03/2010 23:38	-1.94			3.0	P	
Arsenic	12/03/2010 23:38	4.75			5.0	P	
Barium	12/03/2010 23:38	1.30			0.3	P	FAIL
Beryllium	12/03/2010 23:38	0.127			0.15	P	
Cadmium	12/03/2010 23:38	-0.0770			0.3	P	
Calcium	12/03/2010 23:38	17.20			6.0	P	FAIL
Chromium	12/03/2010 23:38	1.48			0.8	P	FAIL
Cobalt	12/03/2010 23:38	1.34			0.6	P	FAIL
Copper	12/03/2010 23:38	1.62			2.4	P	
Iron	12/03/2010 23:38	23.20			12	P	FAIL
Lead	12/03/2010 23:38	2.52			1.7	P	FAIL
Magnesium	12/03/2010 23:38	6.58			5.0	P	FAIL
Manganese	12/03/2010 23:38	1.60			0.6	P	FAIL
Nickel	12/03/2010 23:38	1.35			0.7	P	FAIL
Selenium	12/03/2010 23:38	-6.39			2.6	P	
Silver	12/03/2010 23:38	0.304			0.7	P	
Thallium	12/03/2010 23:38	3.61			1.7	P	FAIL
Vanadium	12/03/2010 23:38	0.914			0.4	P	FAIL
Zinc	12/03/2010 23:38	-0.577			1.4	P	

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

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CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72201 Lab Sample ID: 878905

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M	
Aluminum	12/04/2010 00:54	23.40			1.5	P	FAIL
Antimony	12/04/2010 00:54	0			3.0	P	
Arsenic	12/04/2010 00:54	2.15			5.0	P	
Barium	12/04/2010 00:54	2.02			0.3	P	FAIL
Beryllium	12/04/2010 00:54	0.219			0.15	P	FAIL
Cadmium	12/04/2010 00:54	-0.149			0.3	P	
Calcium	12/04/2010 00:54	21.30			6.0	P	FAIL
Chromium	12/04/2010 00:54	1.49			0.8	P	FAIL
Cobalt	12/04/2010 00:54	1.20			0.6	P	FAIL
Copper	12/04/2010 00:54	1.07			2.4	P	
Iron	12/04/2010 00:54	31.20			12	P	FAIL
Lead	12/04/2010 00:54	2.15			1.7	P	FAIL
Magnesium	12/04/2010 00:54	8.82			5.0	P	FAIL
Manganese	12/04/2010 00:54	2.48			0.6	P	FAIL
Nickel	12/04/2010 00:54	1.18			0.7	P	FAIL
Selenium	12/04/2010 00:54	0			2.6	P	
Silver	12/04/2010 00:54	0.817			0.7	P	FAIL
Thallium	12/04/2010 00:54	1.79			1.7	P	FAIL
Vanadium	12/04/2010 00:54	1.29			0.4	P	FAIL
Zinc	12/04/2010 00:54	0			1.4	P	

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less.

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CONTINUING CALIBRATION BLANKS

CCB

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72203 Lab Sample ID: 879411

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M	
Aluminum	12/03/2010 18:27	6.45			1.5	P	FAIL
Antimony	12/03/2010 18:27	-1.29			3.0	P	
Arsenic	12/03/2010 18:27	1.87			5.0	P	
Barium	12/03/2010 18:27	0.797			0.3	P	FAIL
Beryllium	12/03/2010 18:27	-0.00200			0.15	P	
Cadmium	12/03/2010 18:27	-0.0510			0.3	P	
Calcium	12/03/2010 18:27	11.90			6.0	P	FAIL
Chromium	12/03/2010 18:27	0.252			0.8	P	
Cobalt	12/03/2010 18:27	0.512			0.6	P	
Copper	12/03/2010 18:27	0.245			2.4	P	
Iron	12/03/2010 18:27	7.85			12	P	
Lead	12/03/2010 18:27	0.494			1.7	P	
Magnesium	12/03/2010 18:27	4.13			5.0	P	
Manganese	12/03/2010 18:27	0.369			0.6	P	
Nickel	12/03/2010 18:27	0.381			0.7	P	
Selenium	12/03/2010 18:27	-2.92			2.6	P	
Silver	12/03/2010 18:27	0.190			0.7	P	
Thallium	12/03/2010 18:27	5.75			1.7	P	FAIL
Vanadium	12/03/2010 18:27	0.205			0.4	P	
Zinc	12/03/2010 18:27	-1.17			1.4	P	

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
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CCB

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72203 Lab Sample ID: 879414

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M	
Aluminum	12/03/2010 19:45	8.58			1.5	P	FAIL
Antimony	12/03/2010 19:45	-3.94			3.0	P	
Arsenic	12/03/2010 19:45	-4.85			5.0	P	
Barium	12/03/2010 19:45	1.04			0.3	P	FAIL
Beryllium	12/03/2010 19:45	0.0490			0.15	P	
Cadmium	12/03/2010 19:45	-0.118			0.3	P	
Calcium	12/03/2010 19:45	12.90			6.0	P	FAIL
Chromium	12/03/2010 19:45	1.03			0.8	P	FAIL
Cobalt	12/03/2010 19:45	0.673			0.6	P	FAIL
Copper	12/03/2010 19:45	0.822			2.4	P	
Iron	12/03/2010 19:45	11.10			12	P	
Lead	12/03/2010 19:45	1.32			1.7	P	
Magnesium	12/03/2010 19:45	4.78			5.0	P	
Manganese	12/03/2010 19:45	0.906			0.6	P	FAIL
Nickel	12/03/2010 19:45	0.605			0.7	P	
Selenium	12/03/2010 19:45	-10.8			2.6	P	
Silver	12/03/2010 19:45	-0.0980			0.7	P	
Thallium	12/03/2010 19:45	4.51			1.7	P	FAIL
Vanadium	12/03/2010 19:45	0.0630			0.4	P	
Zinc	12/03/2010 19:45	-0.917			1.4	P	

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
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Sample No

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CONTINUING CALIBRATION BLANKS

CCB

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72203 Lab Sample ID: 879417

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M	
Aluminum	12/03/2010 21:02	10.60			1.5	P	FAIL
Antimony	12/03/2010 21:02	-2.14			3.0	P	
Arsenic	12/03/2010 21:02	-5.22			5.0	P	
Barium	12/03/2010 21:02	1.15			0.3	P	FAIL
Beryllium	12/03/2010 21:02	0.0820			0.15	P	
Cadmium	12/03/2010 21:02	-0.0340			0.3	P	
Calcium	12/03/2010 21:02	13.80			6.0	P	FAIL
Chromium	12/03/2010 21:02	1.02			0.8	P	FAIL
Cobalt	12/03/2010 21:02	0.676			0.6	P	FAIL
Copper	12/03/2010 21:02	0.570			2.4	P	
Iron	12/03/2010 21:02	14.00			12	P	FAIL
Lead	12/03/2010 21:02	0.807			1.7	P	
Magnesium	12/03/2010 21:02	5.20			5.0	P	FAIL
Manganese	12/03/2010 21:02	0.789			0.6	P	FAIL
Nickel	12/03/2010 21:02	0.836			0.7	P	FAIL
Selenium	12/03/2010 21:02	4.30			2.6	P	FAIL
Silver	12/03/2010 21:02	0.105			0.7	P	
Thallium	12/03/2010 21:02	3.99			1.7	P	FAIL
Vanadium	12/03/2010 21:02	0.176			0.4	P	
Zinc	12/03/2010 21:02	-1.03			1.4	P	

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

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Sample No

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CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72203 Lab Sample ID: 879419

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M	
Aluminum	12/03/2010 22:20	10.90			1.5	P	FAIL
Antimony	12/03/2010 22:20	-3.02			3.0	P	
Arsenic	12/03/2010 22:20	-5.26			5.0	P	
Barium	12/03/2010 22:20	1.10			0.3	P	FAIL
Beryllium	12/03/2010 22:20	0.162			0.15	P	FAIL
Cadmium	12/03/2010 22:20	-0.173			0.3	P	
Calcium	12/03/2010 22:20	14.90			6.0	P	FAIL
Chromium	12/03/2010 22:20	0.754			0.8	P	
Cobalt	12/03/2010 22:20	0.683			0.6	P	FAIL
Copper	12/03/2010 22:20	0.150			2.4	P	
Iron	12/03/2010 22:20	15.30			12	P	FAIL
Lead	12/03/2010 22:20	0.485			1.7	P	
Magnesium	12/03/2010 22:20	5.69			5.0	P	FAIL
Manganese	12/03/2010 22:20	1.24			0.6	P	FAIL
Nickel	12/03/2010 22:20	0.780			0.7	P	FAIL
Selenium	12/03/2010 22:20	1.06			2.6	P	
Silver	12/03/2010 22:20	-0.0670			0.7	P	
Thallium	12/03/2010 22:20	7.51			1.7	P	FAIL
Vanadium	12/03/2010 22:20	0.117			0.4	P	
Zinc	12/03/2010 22:20	-0.790			1.4	P	

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

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CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72203 Lab Sample ID: 881172

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M	
Iron	12/09/2010 17:17	-1.98			12	P	
Magnesium	12/09/2010 17:17	1.27			5.0	P	
Manganese	12/09/2010 17:17	0.423			0.6	P	
Selenium	12/09/2010 17:17	2.64			2.6	P	FAIL
Thallium	12/09/2010 17:17	-5.94			1.7	P	

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
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Sample No

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CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72203 Lab Sample ID: 881174

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Iron	12/09/2010 18:34	1.42			12	P
Magnesium	12/09/2010 18:34	0.711			5.0	P
Manganese	12/09/2010 18:34	0.150			0.6	P
Selenium	12/09/2010 18:34	0.405			2.6	P
Thallium	12/09/2010 18:34	-8.42			1.7	P

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

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CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72203 Lab Sample ID: 881178

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Iron	12/09/2010 19:49	4.47			12	P
Magnesium	12/09/2010 19:49	0.944			5.0	P
Manganese	12/09/2010 19:49	0.152			0.6	P
Selenium	12/09/2010 19:49	0.981			2.6	P
Thallium	12/09/2010 19:49	0.403			1.7	P

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
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Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72203 Lab Sample ID: 881180

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Iron	12/09/2010 21:04	6.68			12	P
Magnesium	12/09/2010 21:04	1.88			5.0	P
Manganese	12/09/2010 21:04	0.397			0.6	P
Selenium	12/09/2010 21:04	0.113			2.6	P
Thallium	12/09/2010 21:04	-3.52			1.7	P

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72203 Lab Sample ID: 881182

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Iron	12/09/2010 22:20	7.25			12	P
Magnesium	12/09/2010 22:20	1.32			5.0	P
Selenium	12/09/2010 22:20	-3.05			2.6	P
Thallium	12/09/2010 22:20	1.03			1.7	P

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72201 Lab Sample ID: 881826

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Antimony	12/09/2010 21:04	-1.19			3.0	P
Arsenic	12/09/2010 21:04	2.52			5.0	P
Barium	12/09/2010 21:04	0.253			0.3	P
Beryllium	12/09/2010 21:04	-0.0420			0.15	P
Cadmium	12/09/2010 21:04	0.0850			0.3	P
Calcium	12/09/2010 21:04	-12.8			6.0	P
Chromium	12/09/2010 21:04	-0.532			0.8	P
Cobalt	12/09/2010 21:04	-0.00600			0.6	P
Copper	12/09/2010 21:04	-0.329			2.4	P
Iron	12/09/2010 21:04	6.68			12	P
Lead	12/09/2010 21:04	1.42			1.7	P
Magnesium	12/09/2010 21:04	1.88			5.0	P
Manganese	12/09/2010 21:04	0.397			0.6	P
Nickel	12/09/2010 21:04	-0.0610			0.7	P
Selenium	12/09/2010 21:04	0.113			2.6	P
Silver	12/09/2010 21:04	-0.509			0.7	P
Thallium	12/09/2010 21:04	-3.52			1.7	P
Zinc	12/09/2010 21:04	-1.89			1.4	P

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72201 Lab Sample ID: 881829

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M	
Antimony	12/09/2010 22:20	-0.410			3.0	P	
Arsenic	12/09/2010 22:20	-1.01			5.0	P	
Beryllium	12/09/2010 22:20	-0.00300			0.15	P	
Cadmium	12/09/2010 22:20	-0.0320			0.3	P	
Calcium	12/09/2010 22:20	-11.9			6.0	P	
Chromium	12/09/2010 22:20	-1.92			0.8	P	
Cobalt	12/09/2010 22:20	0.0440			0.6	P	
Copper	12/09/2010 22:20	-0.748			2.4	P	
Iron	12/09/2010 22:20	7.25			12	P	
Lead	12/09/2010 22:20	0.180			1.7	P	
Magnesium	12/09/2010 22:20	1.32			5.0	P	
Manganese	12/09/2010 22:20	0.850			0.6	P	FAIL
Nickel	12/09/2010 22:20	-0.533			0.7	P	
Selenium	12/09/2010 22:20	-3.05			2.6	P	
Silver	12/09/2010 22:20	-1.10			0.7	P	
Thallium	12/09/2010 22:20	1.03			1.7	P	
Vanadium	12/09/2010 22:20	0.549			0.4	P	FAIL
Zinc	12/09/2010 22:20	-1.66			1.4	P	

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
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Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72201 Lab Sample ID: 881832

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M	
Antimony	12/09/2010 23:35	-0.546			3.0	P	
Arsenic	12/09/2010 23:35	-8.38			5.0	P	
Barium	12/09/2010 23:35	0.265			0.3	P	
Beryllium	12/09/2010 23:35	-0.0720			0.15	P	
Cadmium	12/09/2010 23:35	-0.0260			0.3	P	
Calcium	12/09/2010 23:35	-10.7			6.0	P	
Cobalt	12/09/2010 23:35	0.179			0.6	P	
Copper	12/09/2010 23:35	-0.0420			2.4	P	
Iron	12/09/2010 23:35	11.30			12	P	
Lead	12/09/2010 23:35	0.369			1.7	P	
Magnesium	12/09/2010 23:35	2.79			5.0	P	
Manganese	12/09/2010 23:35	0.736			0.6	P	FAIL
Nickel	12/09/2010 23:35	-0.376			0.7	P	
Silver	12/09/2010 23:35	0.185			0.7	P	
Thallium	12/09/2010 23:35	-6.30			1.7	P	
Zinc	12/09/2010 23:35	-1.60			1.4	P	

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72018 Lab Sample ID: 875796

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Mercury	11/24/2010 09:59	0	U	0.06	0.06	CV

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
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Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72018 Lab Sample ID: 875798

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Mercury	11/24/2010 10:21	0	U	0.06	0.06	CV

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
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Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72018 Lab Sample ID: 875800

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Mercury	11/24/2010 10:44	0	U	0.06	0.06	CV

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
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Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72326 Lab Sample ID: 879518

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Mercury	12/08/2010 13:52	0	U	0.06	0.06	CV

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
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Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72326 Lab Sample ID: 879520

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Mercury	12/08/2010 14:14	0	U	0.06	0.06	CV

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
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Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72327 Lab Sample ID: 879538

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Mercury	12/08/2010 13:52	0	U	0.06	0.06	CV

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72327 Lab Sample ID: 879541

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Mercury	12/08/2010 14:14	0	U	0.06	0.06	CV

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72327 Lab Sample ID: 879544

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Mercury	12/08/2010 14:37	0	U	0.06	0.06	CV

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72327 Lab Sample ID: 879546

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Mercury	12/08/2010 14:59	0	U	0.06	0.06	CV

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
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Sample No

MB

3-3

METHOD BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71910 Lab Sample ID: 873322

Analytical Prep Batch # 35475 Preparation Date/Time: 11/18/2010 17:30

Concentration Units: mg/kg

Analysis Type: ReRun Re-Analysis #1

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Calcium	11/29/2010 15:53	0.0036	U	0.15	0.25	P
Magnesium	11/29/2010 15:53	0.036	U	0.12	0.20	P

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Thallium	11/29/2010 15:53	0	U	0.04	0.07	P

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

MB

3-3

METHOD BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71910 Lab Sample ID: 873322

Analytical Prep Batch # 35475 Preparation Date/Time: 11/18/2010 17:30

Concentration Units: mg/kg

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M	
Aluminum	11/19/2010 20:13	1.2		0.04	0.06	P	FAIL
Antimony	11/19/2010 20:13	0	U	0.08	0.135	P	
Arsenic	11/19/2010 20:13	0	U	0.13	0.225	P	
Barium	11/19/2010 20:13	0.0051	U	0.008	0.0135	P	
Beryllium	11/19/2010 20:13	0	U	0.004	0.060	P	
Cadmium	11/19/2010 20:13	0.00093	U	0.006	0.0105	P	
Chromium	11/19/2010 20:13	0.00045	U	0.019	0.0315	P	
Cobalt	11/19/2010 20:13	0	U	0.015	0.0245	P	
Copper	11/19/2010 20:13	0.0019	U	0.06	0.10	P	
Iron	11/19/2010 20:13	1.9		0.3	0.5	P	FAIL
Lead	11/19/2010 20:13	0	U	0.04	0.07	P	
Manganese	11/19/2010 20:13	0.11		0.016	0.025	P	FAIL
Nickel	11/19/2010 20:13	0	U	0.018	0.0305	P	
Selenium	11/19/2010 20:13	0	U	0.07	0.21	P	
Silver	11/19/2010 20:13	0.015	U	0.017	0.028	P	
Vanadium	11/19/2010 20:13	0.033		0.011	0.017	P	FAIL
Zinc	11/19/2010 20:13	0	U	0.04	0.06	P	

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

MB

3-3

METHOD BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71911 Lab Sample ID: 873322

Analytical Prep Batch # 35475 Preparation Date/Time: 11/18/2010 17:30

Concentration Units: mg/kg

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Potassium	11/22/2010 07:43	8.4	U	11	18	P
Sodium	11/22/2010 07:43	0	U	4	6.5	P

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

MB

3-3

METHOD BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71911 Lab Sample ID: 873322

Analytical Prep Batch # 35475 Preparation Date/Time: 11/18/2010 17:30

Concentration Units: mg/kg

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Potassium	11/22/2010 07:43	8.4	U	11	18	P
Sodium	11/22/2010 07:43	0	U	4	6.5	P

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

MB

3-3

METHOD BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72201 Lab Sample ID: 877402

Analytical Prep Batch # 35623 Preparation Date/Time: 12/02/2010 16:30

Concentration Units: mg/kg

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M	
Aluminum	12/03/2010 22:32	0.64		0.04	0.06	P	FAIL
Antimony	12/03/2010 22:32	0	U	0.08	0.135	P	
Arsenic	12/03/2010 22:32	0	U	0.13	0.225	P	
Barium	12/03/2010 22:32	0.034		0.008	0.0135	P	FAIL
Beryllium	12/03/2010 22:32	0.0014	U	0.004	0.060	P	
Cadmium	12/03/2010 22:32	0	U	0.006	0.0105	P	
Calcium	12/03/2010 22:32	0.64		0.15	0.25	P	FAIL
Chromium	12/03/2010 22:32	0.023		0.019	0.0315	P	FAIL
Cobalt	12/03/2010 22:32	0.0029	U	0.015	0.0245	P	
Copper	12/03/2010 22:32	0	U	0.06	0.10	P	
Iron	12/03/2010 22:32	1.2		0.3	0.5	P	FAIL
Lead	12/03/2010 22:32	0.015	U	0.04	0.07	P	
Magnesium	12/03/2010 22:32	0.20		0.12	0.20	P	FAIL
Manganese	12/03/2010 22:32	0.074		0.016	0.025	P	FAIL
Nickel	12/03/2010 22:32	0	U	0.018	0.0305	P	
Selenium	12/03/2010 22:32	0	U	0.07	0.21	P	
Silver	12/03/2010 22:32	0.0014	U	0.017	0.028	P	
Thallium	12/03/2010 22:32	0.025	U	0.04	0.07	P	
Vanadium	12/03/2010 22:32	0	U	0.011	0.017	P	
Zinc	12/03/2010 22:32	0	U	0.04	0.06	P	

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

MB

3-3

METHOD BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72202 Lab Sample ID: 877402

Analytical Prep Batch # 35623 Preparation Date/Time: 12/02/2010 16:30

Concentration Units: mg/kg

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Potassium	12/03/2010 16:49	4.1	U	11	18	P
Sodium	12/03/2010 16:49	0	U	4	6.5	P

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

MB

3-3

METHOD BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72202 Lab Sample ID: 877402

Analytical Prep Batch # 35623 Preparation Date/Time: 12/02/2010 16:30

Concentration Units: mg/kg

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Potassium	12/03/2010 16:49	4.1	U	11	18	P
Sodium	12/03/2010 16:49	0	U	4	6.5	P

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

MB

3-3

METHOD BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72203 Lab Sample ID: 877407

Analytical Prep Batch # 35624 Preparation Date/Time: 12/02/2010 16:30

Concentration Units: mg/kg

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M	
Aluminum	12/03/2010 19:01	1.6		0.04	0.06	P	FAIL
Antimony	12/03/2010 19:01	0	U	0.08	0.135	P	
Arsenic	12/03/2010 19:01	0	U	0.13	0.225	P	
Barium	12/03/2010 19:01	0.036		0.008	0.0135	P	FAIL
Beryllium	12/03/2010 19:01	0	U	0.004	0.060	P	
Cadmium	12/03/2010 19:01	0	U	0.006	0.0105	P	
Calcium	12/03/2010 19:01	2.3		0.15	0.25	P	FAIL
Chromium	12/03/2010 19:01	0.030		0.019	0.0315	P	FAIL
Cobalt	12/03/2010 19:01	0.0075	U	0.015	0.0245	P	
Copper	12/03/2010 19:01	0.0030	U	0.06	0.10	P	
Iron	12/03/2010 19:01	3.4		0.3	0.5	P	FAIL
Lead	12/03/2010 19:01	0.0069	U	0.04	0.07	P	
Magnesium	12/03/2010 19:01	0.66		0.12	0.20	P	FAIL
Manganese	12/03/2010 19:01	0.26		0.016	0.025	P	FAIL
Nickel	12/03/2010 19:01	0.00018	U	0.018	0.0305	P	
Selenium	12/03/2010 19:01	0.056	U	0.07	0.21	P	
Silver	12/03/2010 19:01	0.00063	U	0.017	0.028	P	
Thallium	12/03/2010 19:01	0.024	U	0.04	0.07	P	
Vanadium	12/03/2010 19:01	0.013		0.011	0.017	P	FAIL
Zinc	12/03/2010 19:01	0	U	0.04	0.06	P	

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
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Sample No

MB

3-3

METHOD BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72204 Lab Sample ID: 877407

Analytical Prep Batch # 35624 Preparation Date/Time: 12/02/2010 16:30

Concentration Units: mg/kg

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Potassium	12/03/2010 15:35	5.2	U	11	18	P
Sodium	12/03/2010 15:35	0	U	4	6.5	P

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
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Sample No

MB

3-3

METHOD BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72204 Lab Sample ID: 877407

Analytical Prep Batch # 35624 Preparation Date/Time: 12/02/2010 16:30

Concentration Units: mg/kg

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Potassium	12/03/2010 15:35	5.2	U	11	18	P
Sodium	12/03/2010 15:35	0	U	4	6.5	P

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
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Sample No

MB

3-3

METHOD BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72018 Lab Sample ID: 874582

Analytical Prep Batch # 35531 Preparation Date/Time: 11/23/2010 15:30

Concentration Units: mg/kg

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Mercury	11/24/2010 09:42	0	U	0.0024	0.00395	CV

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
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Sample No

MB

3-3

METHOD BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72326 Lab Sample ID: 878266

Analytical Prep Batch # 35686 Preparation Date/Time: 12/07/2010 15:30

Concentration Units: mg/kg

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Mercury	12/08/2010 13:35	0	U	0.0024	0.00395	CV

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
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Sample No

MB

3-3

METHOD BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72327 Lab Sample ID: 878271

Analytical Prep Batch # 35687 Preparation Date/Time: 12/07/2010 15:30

Concentration Units: mg/kg

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Mercury	12/08/2010 14:01	0	U	0.0024	0.00395	CV

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
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Sample No:

4-1

ICP INTERFERENCE CHECK SAMPLE (SOL. A)

ICSA

Lab Name: CT Laboratories
Contract: USACE - LOUISVILLE-RAVENNA
ICP ID Number: TJA 6000
SDG No.: 82399
ICS Source: SPEX

Analytical Run #: 71911
Lab Sample ID: 874798
ICP MRL Standard Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R	Lower Limit (1)	Upper Limit (1)	M
Aluminum	11/22/2010 07:35	500000	538000	108	80	120	P
Calcium	11/22/2010 07:35	500000	493000	99	80	120	P
Iron	11/22/2010 07:35	500000	473000	95	80	120	P
Magnesium	11/22/2010 07:35	500000	458000	92	80	120	P
Potassium	11/22/2010 07:35	0	0		-275	275	P
Sodium	11/22/2010 07:35	0	0		-100	100	P

CT LABORATORIES
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Sample No:

4-1

ICP INTERFERENCE CHECK SAMPLE (SOL. A)

ICSA

Lab Name: CT Laboratories
Contract: USACE - LOUISVILLE-RAVENNA
ICP ID Number: TJA 6000
SDG No.: 82399
ICS Source: SPEX

Analytical Run #: 71910
Lab Sample ID: 874989
ICP MRL Standard Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R	Lower Limit (1)	Upper Limit (1)	M
Aluminum	11/19/2010 10:52	500000	447000	89	80	120	P
Antimony	11/19/2010 10:52	0	-0.100		-3.2	3.2	P
Arsenic	11/19/2010 10:52	0	-0.303		-5.2	5.2	P
Barium	11/19/2010 10:52	0	-0.0490		-0.32	0.32	P
Beryllium	11/19/2010 10:52	0	0.0510		-0.16	0.16	P
Cadmium	11/19/2010 10:52	0	0.0360		-0.24	0.24	P
Calcium	11/19/2010 10:52	500000	495000	99	80	120	P
Chromium	11/19/2010 10:52	0	0		-0.76	0.76	P
Cobalt	11/19/2010 10:52	0	0.0300		-0.6	0.6	P
Copper	11/19/2010 10:52	0	-0.0730		-2.4	2.4	P
Iron	11/19/2010 10:52	500000	495000	99	80	120	P
Lead	11/19/2010 10:52	0	-0.0270		-1.6	1.6	P
Magnesium	11/19/2010 10:52	500000	472000	94	80	120	P
Manganese	11/19/2010 10:52	0	0.0250		-1.6	1.6	P
Nickel	11/19/2010 10:52	0	0.00100		-0.72	0.72	P
Selenium	11/19/2010 10:52	0	0.00100		-2.8	2.8	P
Silver	11/19/2010 10:52	0	0		-0.68	0.68	P
Thallium	11/19/2010 10:52	0	0		-1.6	1.6	P
Vanadium	11/19/2010 10:52	0	0.0800		-0.44	0.44	P
Zinc	11/19/2010 10:52	0	0.0620		-1.6	1.6	P

CT LABORATORIES
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Sample No:

4-1

ICP INTERFERENCE CHECK SAMPLE (SOL. A)

ICSA

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
ICP ID Number:	TJA 6000	SDG No.:	82399
ICS Source:	SPEX		

CT LABORATORIES
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Sample No:

4-1

ICP INTERFERENCE CHECK SAMPLE (SOL. A)

ICSA

Lab Name: CT Laboratories
Contract: USACE - LOUISVILLE-RAVENNA
ICP ID Number: TJA 6000
SDG No.: 82399
ICS Source: SPEX

Analytical Run #: 71910
Lab Sample ID: 877037
ICP MRL Standard Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R	Lower Limit (1)	Upper Limit (1)	M
Aluminum	11/29/2010 15:30	500000	528000	106	80	120	P
Antimony	11/29/2010 15:30	0	0.00800		-3.2	3.2	P
Arsenic	11/29/2010 15:30	0	0.581		-5.2	5.2	P
Barium	11/29/2010 15:30	0	0		-0.32	0.32	P
Beryllium	11/29/2010 15:30	0	0		-0.16	0.16	P
Cadmium	11/29/2010 15:30	0	-0.00100		-0.24	0.24	P
Calcium	11/29/2010 15:30	500000	543000	109	80	120	P
Chromium	11/29/2010 15:30	0	0		-0.76	0.76	P
Cobalt	11/29/2010 15:30	0	0.00800		-0.6	0.6	P
Copper	11/29/2010 15:30	0	0.0400		-2.4	2.4	P
Iron	11/29/2010 15:30	500000	485000	97	80	120	P
Lead	11/29/2010 15:30	0	0.0510		-1.6	1.6	P
Magnesium	11/29/2010 15:30	500000	559000	112	80	120	P
Manganese	11/29/2010 15:30	0	0		-1.6	1.6	P
Nickel	11/29/2010 15:30	0	0.0110		-0.72	0.72	P
Selenium	11/29/2010 15:30	0	-0.0190		-2.8	2.8	P
Silver	11/29/2010 15:30	0	0		-0.68	0.68	P
Thallium	11/29/2010 15:30	0	0.620		-1.6	1.6	P
Vanadium	11/29/2010 15:30	0	0		-0.44	0.44	P
Zinc	11/29/2010 15:30	0	0		-1.6	1.6	P

CT LABORATORIES
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Sample No:

4-1

ICP INTERFERENCE CHECK SAMPLE (SOL. A)

ICSA

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
ICP ID Number:	TJA 6000	SDG No.:	82399
ICS Source:	SPEX		

CT LABORATORIES
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Sample No:

4-1

ICP INTERFERENCE CHECK SAMPLE (SOL. A)

ICSA

Lab Name: CT Laboratories
Contract: USACE - LOUISVILLE-RAVENNA
ICP ID Number: TJA 6000
SDG No.: 82399
ICS Source: SPEX

Analytical Run #: 72202
Lab Sample ID: 878369
ICP MRL Standard Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R	Lower Limit (1)	Upper Limit (1)	M
Aluminum	12/03/2010 14:24	500000	502000	100	80	120	P
Calcium	12/03/2010 14:24	500000	502000	100	80	120	P
Iron	12/03/2010 14:24	500000	487000	97	80	120	P
Magnesium	12/03/2010 14:24	500000	492000	98	80	120	P
Potassium	12/03/2010 14:24	0	2.00		-275	275	P
Sodium	12/03/2010 14:24	0	-3.00		-100	100	P

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Sample No:

4-1

ICP INTERFERENCE CHECK SAMPLE (SOL. A)

ICSA

Lab Name: CT Laboratories
Contract: USACE - LOUISVILLE-RAVENNA
ICP ID Number: TJA 6000
SDG No.: 82399
ICS Source: SPEX

Analytical Run #: 72204
Lab Sample ID: 878394
ICP MRL Standard Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R	Lower Limit (1)	Upper Limit (1)	M
Aluminum	12/03/2010 14:24	500000	502000	100	80	120	P
Calcium	12/03/2010 14:24	500000	502000	100	80	120	P
Iron	12/03/2010 14:24	500000	487000	97	80	120	P
Magnesium	12/03/2010 14:24	500000	492000	98	80	120	P
Potassium	12/03/2010 14:24	0	2.00		-275	275	P
Sodium	12/03/2010 14:24	0	-3.00		-100	100	P

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Sample No:

4-1

ICP INTERFERENCE CHECK SAMPLE (SOL. A)

ICSA

Lab Name: CT Laboratories
Contract: USACE - LOUISVILLE-RAVENNA
ICP ID Number: TJA 6000
SDG No.: 82399
ICS Source: SPEX

Analytical Run #: 72203
Lab Sample ID: 878856
ICP MRL Standard Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R	Lower Limit (1)	Upper Limit (1)	M
Aluminum	12/03/2010 14:26	500000	537000	107	80	120	P
Antimony	12/03/2010 14:26	0	0.0250		-3.2	3.2	P
Arsenic	12/03/2010 14:26	0	0.00300		-5.2	5.2	P
Barium	12/03/2010 14:26	0	0.0150		-0.32	0.32	P
Beryllium	12/03/2010 14:26	0	0.00300		-0.16	0.16	P
Cadmium	12/03/2010 14:26	0	0.0810		-0.24	0.24	P
Calcium	12/03/2010 14:26	500000	572000	114	80	120	P
Chromium	12/03/2010 14:26	0	0.00400		-0.76	0.76	P
Cobalt	12/03/2010 14:26	0	0.0370		-0.6	0.6	P
Copper	12/03/2010 14:26	0	0		-2.4	2.4	P
Iron	12/03/2010 14:26	500000	486000	97	80	120	P
Lead	12/03/2010 14:26	0	0.0160		-1.6	1.6	P
Magnesium	12/03/2010 14:26	500000	516000	103	80	120	P
Manganese	12/03/2010 14:26	0	0		-1.6	1.6	P
Nickel	12/03/2010 14:26	0	0.0270		-0.72	0.72	P
Selenium	12/03/2010 14:26	0	-0.0190		-2.8	2.8	P
Silver	12/03/2010 14:26	0	0		-0.68	0.68	P
Thallium	12/03/2010 14:26	0	0.0860		-1.6	1.6	P
Vanadium	12/03/2010 14:26	0	0.0770		-0.44	0.44	P
Zinc	12/03/2010 14:26	0	0		-1.6	1.6	P

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Sample No:

4-1

ICP INTERFERENCE CHECK SAMPLE (SOL. A)

ICSA

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
ICP ID Number:	TJA 6000	SDG No.:	82399
ICS Source:	SPEX		

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Sample No:

4-1

ICP INTERFERENCE CHECK SAMPLE (SOL. A)

ICSA

Lab Name: CT Laboratories
Contract: USACE - LOUISVILLE-RAVENNA
ICP ID Number: TJA 6000
SDG No.: 82399
ICS Source: SPEX

Analytical Run #: 71910
Lab Sample ID: 878862
ICP MRL Standard Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R	Lower Limit (1)	Upper Limit (1)	M
Aluminum	12/03/2010 14:26	500000	537000	107	80	120	P
Antimony	12/03/2010 14:26	0	0.0250		-3.2	3.2	P
Arsenic	12/03/2010 14:26	0	0.00300		-5.2	5.2	P
Barium	12/03/2010 14:26	0	0.0150		-0.32	0.32	P
Beryllium	12/03/2010 14:26	0	0.00300		-0.16	0.16	P
Cadmium	12/03/2010 14:26	0	0.0810		-0.24	0.24	P
Calcium	12/03/2010 14:26	500000	572000	114	80	120	P
Chromium	12/03/2010 14:26	0	0.00400		-0.76	0.76	P
Cobalt	12/03/2010 14:26	0	0.0370		-0.6	0.6	P
Copper	12/03/2010 14:26	0	0		-2.4	2.4	P
Iron	12/03/2010 14:26	500000	486000	97	80	120	P
Lead	12/03/2010 14:26	0	0.0160		-1.6	1.6	P
Magnesium	12/03/2010 14:26	500000	516000	103	80	120	P
Manganese	12/03/2010 14:26	0	0		-1.6	1.6	P
Nickel	12/03/2010 14:26	0	0.0270		-0.72	0.72	P
Selenium	12/03/2010 14:26	0	-0.0190		-2.8	2.8	P
Silver	12/03/2010 14:26	0	0		-0.68	0.68	P
Thallium	12/03/2010 14:26	0	0.0860		-1.6	1.6	P
Vanadium	12/03/2010 14:26	0	0.0770		-0.44	0.44	P
Zinc	12/03/2010 14:26	0	0		-1.6	1.6	P

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Sample No:

4-1

ICP INTERFERENCE CHECK SAMPLE (SOL. A)

ICSA

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
ICP ID Number:	TJA 6000	SDG No.:	82399
ICS Source:	SPEX		

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Sample No:

4-1

ICP INTERFERENCE CHECK SAMPLE (SOL. A)

ICSA

Lab Name: CT Laboratories
Contract: USACE - LOUISVILLE-RAVENNA
ICP ID Number: TJA 6000
SDG No.: 82399
ICS Source: SPEX

Analytical Run #: 72201
Lab Sample ID: 878883
ICP MRL Standard Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R	Lower Limit (1)	Upper Limit (1)	M
Aluminum	12/03/2010 14:26	500000	537000	107	80	120	P
Antimony	12/03/2010 14:26	0	0.0250		-3.2	3.2	P
Arsenic	12/03/2010 14:26	0	0.00300		-5.2	5.2	P
Barium	12/03/2010 14:26	0	0.0150		-0.32	0.32	P
Beryllium	12/03/2010 14:26	0	0.00300		-0.16	0.16	P
Cadmium	12/03/2010 14:26	0	0.0810		-0.24	0.24	P
Calcium	12/03/2010 14:26	500000	572000	114	80	120	P
Chromium	12/03/2010 14:26	0	0.00400		-0.76	0.76	P
Cobalt	12/03/2010 14:26	0	0.0370		-0.6	0.6	P
Copper	12/03/2010 14:26	0	0		-2.4	2.4	P
Iron	12/03/2010 14:26	500000	486000	97	80	120	P
Lead	12/03/2010 14:26	0	0.0160		-1.6	1.6	P
Magnesium	12/03/2010 14:26	500000	516000	103	80	120	P
Manganese	12/03/2010 14:26	0	0		-1.6	1.6	P
Nickel	12/03/2010 14:26	0	0.0270		-0.72	0.72	P
Selenium	12/03/2010 14:26	0	-0.0190		-2.8	2.8	P
Silver	12/03/2010 14:26	0	0		-0.68	0.68	P
Thallium	12/03/2010 14:26	0	0.0860		-1.6	1.6	P
Vanadium	12/03/2010 14:26	0	0.0770		-0.44	0.44	P
Zinc	12/03/2010 14:26	0	0		-1.6	1.6	P

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Sample No:

4-1

ICP INTERFERENCE CHECK SAMPLE (SOL. A)

ICSA

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
ICP ID Number:	TJA 6000	SDG No.:	82399
ICS Source:	SPEX		

CT LABORATORIES
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Sample No:

4-1

ICP INTERFERENCE CHECK SAMPLE (SOL. A)

ICSA

Lab Name: CT Laboratories
Contract: USACE - LOUISVILLE-RAVENNA
ICP ID Number: TJA 6000
SDG No.: 82399
ICS Source: SPEX

Analytical Run #: 72201
Lab Sample ID: 881162
ICP MRL Standard Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R	Lower Limit (1)	Upper Limit (1)	M
Aluminum	12/09/2010 15:55	500000	513000	103	80	120	P
Antimony	12/09/2010 15:55	0	-0.0840		-3.2	3.2	P
Arsenic	12/09/2010 15:55	0	-0.0650		-5.2	5.2	P
Barium	12/09/2010 15:55	0	-0.0200		-0.32	0.32	P
Beryllium	12/09/2010 15:55	0	0.0610		-0.16	0.16	P
Cadmium	12/09/2010 15:55	0	0.00800		-0.24	0.24	P
Calcium	12/09/2010 15:55	500000	515000	103	80	120	P
Chromium	12/09/2010 15:55	0	0		-0.76	0.76	P
Cobalt	12/09/2010 15:55	0	0		-0.6	0.6	P
Copper	12/09/2010 15:55	0	-0.00200		-2.4	2.4	P
Iron	12/09/2010 15:55	500000	502000	100	80	120	P
Lead	12/09/2010 15:55	0	0.0960		-1.6	1.6	P
Magnesium	12/09/2010 15:55	500000	534000	107	80	120	P
Manganese	12/09/2010 15:55	0	0		-1.6	1.6	P
Nickel	12/09/2010 15:55	0	0.0180		-0.72	0.72	P
Selenium	12/09/2010 15:55	0	-0.0210		-2.8	2.8	P
Silver	12/09/2010 15:55	0	0		-0.68	0.68	P
Thallium	12/09/2010 15:55	0	-0.115		-1.6	1.6	P
Vanadium	12/09/2010 15:55	0	-0.266		-0.44	0.44	P
Zinc	12/09/2010 15:55	0	0		-1.6	1.6	P

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Sample No:

4-1

ICP INTERFERENCE CHECK SAMPLE (SOL. A)

ICSA

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
ICP ID Number:	TJA 6000	SDG No.:	82399
ICS Source:	SPEX		

CT LABORATORIES
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Sample No:

4-1

ICP INTERFERENCE CHECK SAMPLE (SOL. A)

ICSA

Lab Name: CT Laboratories
Contract: USACE - LOUISVILLE-RAVENNA
ICP ID Number: TJA 6000
SDG No.: 82399
ICS Source: SPEX

Analytical Run #: 72203
Lab Sample ID: 881169
ICP MRL Standard Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R	Lower Limit (1)	Upper Limit (1)	M
Aluminum	12/09/2010 15:55	500000	513000	103	80	120	P
Calcium	12/09/2010 15:55	500000	515000	103	80	120	P
Iron	12/09/2010 15:55	500000	502000	100	80	120	P
Magnesium	12/09/2010 15:55	500000	534000	107	80	120	P
Manganese	12/09/2010 15:55	0	0		-1.6	1.6	P
Selenium	12/09/2010 15:55	0	-0.0210		-2.8	2.8	P
Thallium	12/09/2010 15:55	0	-0.115		-1.6	1.6	P

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Sample No:

4-2

ICP INTERFERENCE CHECK SAMPLE (SOL. AB)

ICSAB

Lab Name: CT Laboratories
Contract: USACE - LOUISVILLE-RAVENNA
ICP ID Number: TJA 6000
SDG No.: 82399
ICS Source: SPEX, Ultra

Analytical Run #: 71911
Lab Sample ID: 874799
ICP MRL Standard Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R	Lower Limit (1)	Upper Limit (1)	M
Aluminum	11/22/2010 07:38	500000	517000	103	80	120	P
Calcium	11/22/2010 07:38	500000	480000	96	80	120	P
Iron	11/22/2010 07:38	500000	462000	92	80	120	P
Magnesium	11/22/2010 07:38	500000	442000	88	80	120	P
Potassium	11/22/2010 07:38	100000	109000	109	80	120	P
Sodium	11/22/2010 07:38	100000	97000	97	80	120	P

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Sample No:

4-2

ICP INTERFERENCE CHECK SAMPLE (SOL. AB)

ICSAB

Lab Name: CT Laboratories
Contract: USACE - LOUISVILLE-RAVENNA
ICP ID Number: TJA 6000
SDG No.: 82399
ICS Source: SPEX, Ultra

Analytical Run #: 71910
Lab Sample ID: 874990
ICP MRL Standard Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R	Lower Limit (1)	Upper Limit (1)	M
Aluminum	11/19/2010 10:59	500000	454000	91	80	120	P
Antimony	11/19/2010 10:59	500.0	425.0	85	80	120	P
Arsenic	11/19/2010 10:59	500.0	500.0	100	80	120	P
Barium	11/19/2010 10:59	500.0	586.0	117	80	120	P
Beryllium	11/19/2010 10:59	500.0	537.0	107	80	120	P
Cadmium	11/19/2010 10:59	500.0	429.0	86	80	120	P
Calcium	11/19/2010 10:59	500000	507000	101	80	120	P
Chromium	11/19/2010 10:59	500.0	419.0	84	80	120	P
Cobalt	11/19/2010 10:59	500.0	405.0	81	80	120	P
Copper	11/19/2010 10:59	500.0	466.0	93	80	120	P
Iron	11/19/2010 10:59	500000	509000	102	80	120	P
Lead	11/19/2010 10:59	500.0	445.0	89	80	120	P
Magnesium	11/19/2010 10:59	500000	484000	97	80	120	P
Manganese	11/19/2010 10:59	500.0	507.0	101	80	120	P
Nickel	11/19/2010 10:59	500.0	477.0	95	80	120	P
Selenium	11/19/2010 10:59	500.0	461.0	92	80	120	P
Silver	11/19/2010 10:59	500.0	474.0	95	80	120	P
Thallium	11/19/2010 10:59	500.0	412.0	82	80	120	P
Vanadium	11/19/2010 10:59	500.0	468.0	94	80	120	P
Zinc	11/19/2010 10:59	500.0	453.0	91	80	120	P

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Sample No:

4-2

ICP INTERFERENCE CHECK SAMPLE (SOL. AB)

ICSAB

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
ICP ID Number:	TJA 6000	SDG No.:	82399
ICS Source:	SPEX, Ultra		

CT LABORATORIES
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Sample No:

4-2

ICP INTERFERENCE CHECK SAMPLE (SOL. AB)

ICSAB

Lab Name: CT Laboratories
Contract: USACE - LOUISVILLE-RAVENNA
ICP ID Number: TJA 6000
SDG No.: 82399
ICS Source: SPEX, Ultra

Analytical Run #: 71910
Lab Sample ID: 877038
ICP MRL Standard Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R	Lower Limit (1)	Upper Limit (1)	M
Aluminum	11/29/2010 15:36	500000	547000	109	80	120	P
Antimony	11/29/2010 15:36	500.0	509.0	102	80	120	P
Arsenic	11/29/2010 15:36	500.0	519.0	104	80	120	P
Barium	11/29/2010 15:36	500.0	586.0	117	80	120	P
Beryllium	11/29/2010 15:36	500.0	562.0	112	80	120	P
Cadmium	11/29/2010 15:36	500.0	432.0	86	80	120	P
Calcium	11/29/2010 15:36	500000	558000	112	80	120	P
Chromium	11/29/2010 15:36	500.0	478.0	96	80	120	P
Cobalt	11/29/2010 15:36	500.0	461.0	92	80	120	P
Copper	11/29/2010 15:36	500.0	480.0	96	80	120	P
Iron	11/29/2010 15:36	500000	501000	100	80	120	P
Lead	11/29/2010 15:36	500.0	449.0	90	80	120	P
Magnesium	11/29/2010 15:36	500000	570000	114	80	120	P
Manganese	11/29/2010 15:36	500.0	561.0	112	80	120	P
Nickel	11/29/2010 15:36	500.0	435.0	87	80	120	P
Selenium	11/29/2010 15:36	500.0	510.0	102	80	120	P
Silver	11/29/2010 15:36	500.0	478.0	96	80	120	P
Thallium	11/29/2010 15:36	500.0	399.0	80	80	120	P
Vanadium	11/29/2010 15:36	500.0	530.0	106	80	120	P
Zinc	11/29/2010 15:36	500.0	520.0	104	80	120	P

CT LABORATORIES
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Sample No:

4-2

ICP INTERFERENCE CHECK SAMPLE (SOL. AB)

ICSAB

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
ICP ID Number:	TJA 6000	SDG No.:	82399
ICS Source:	SPEX, Ultra		

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No:

4-2

ICP INTERFERENCE CHECK SAMPLE (SOL. AB)

ICSAB

Lab Name: CT Laboratories
Contract: USACE - LOUISVILLE-RAVENNA
ICP ID Number: TJA 6000
SDG No.: 82399
ICS Source: SPEX, Ultra

Analytical Run #: 72202
Lab Sample ID: 878370
ICP MRL Standard Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R	Lower Limit (1)	Upper Limit (1)	M
Aluminum	12/03/2010 14:26	500000	471000	94	80	120	P
Calcium	12/03/2010 14:26	500000	487000	97	80	120	P
Iron	12/03/2010 14:26	500000	476000	95	80	120	P
Magnesium	12/03/2010 14:26	500000	479000	96	80	120	P
Potassium	12/03/2010 14:26	100000	112000	112	80	120	P
Sodium	12/03/2010 14:26	100000	104000	104	80	120	P

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Sample No:

4-2

ICP INTERFERENCE CHECK SAMPLE (SOL. AB)

ICSAB

Lab Name: CT Laboratories
Contract: USACE - LOUISVILLE-RAVENNA
ICP ID Number: TJA 6000
SDG No.: 82399
ICS Source: SPEX, Ultra

Analytical Run #: 72204
Lab Sample ID: 878395
ICP MRL Standard Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R	Lower Limit (1)	Upper Limit (1)	M
Aluminum	12/03/2010 14:26	500000	471000	94	80	120	P
Calcium	12/03/2010 14:26	500000	487000	97	80	120	P
Iron	12/03/2010 14:26	500000	476000	95	80	120	P
Magnesium	12/03/2010 14:26	500000	479000	96	80	120	P
Potassium	12/03/2010 14:26	100000	112000	112	80	120	P
Sodium	12/03/2010 14:26	100000	104000	104	80	120	P

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Sample No:

4-2

ICP INTERFERENCE CHECK SAMPLE (SOL. AB)

ICSAB

Lab Name: CT Laboratories
Contract: USACE - LOUISVILLE-RAVENNA
ICP ID Number: TJA 6000
SDG No.: 82399
ICS Source: SPEX, Ultra

Analytical Run #: 71910
Lab Sample ID: 878863
ICP MRL Standard Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R	Lower Limit (1)	Upper Limit (1)	M
Aluminum	12/03/2010 14:32	500000	553000	111	80	120	P
Antimony	12/03/2010 14:32	500.0	580.0	116	80	120	P
Arsenic	12/03/2010 14:32	500.0	552.0	110	80	120	P
Barium	12/03/2010 14:32	500.0	595.0	119	80	120	P
Beryllium	12/03/2010 14:32	500.0	410.0	82	80	120	P
Cadmium	12/03/2010 14:32	500.0	442.0	88	80	120	P
Calcium	12/03/2010 14:32	500000	585000	117	80	120	P
Chromium	12/03/2010 14:32	500.0	474.0	95	80	120	P
Cobalt	12/03/2010 14:32	500.0	442.0	88	80	120	P
Copper	12/03/2010 14:32	500.0	509.0	102	80	120	P
Iron	12/03/2010 14:32	500000	467000	93	80	120	P
Lead	12/03/2010 14:32	500.0	480.0	96	80	120	P
Magnesium	12/03/2010 14:32	500000	504000	101	80	120	P
Manganese	12/03/2010 14:32	500.0	561.0	112	80	120	P
Nickel	12/03/2010 14:32	500.0	469.0	94	80	120	P
Selenium	12/03/2010 14:32	500.0	491.0	98	80	120	P
Silver	12/03/2010 14:32	500.0	535.0	107	80	120	P
Thallium	12/03/2010 14:32	500.0	477.0	95	80	120	P
Vanadium	12/03/2010 14:32	500.0	536.0	107	80	120	P
Zinc	12/03/2010 14:32	500.0	537.0	107	80	120	P

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Sample No:

4-2

ICP INTERFERENCE CHECK SAMPLE (SOL. AB)

ICSAB

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
ICP ID Number:	TJA 6000	SDG No.:	82399
ICS Source:	SPEX, Ultra		

CT LABORATORIES
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Sample No:

4-2

ICP INTERFERENCE CHECK SAMPLE (SOL. AB)

ICSAB

Lab Name: CT Laboratories
Contract: USACE - LOUISVILLE-RAVENNA
ICP ID Number: TJA 6000
SDG No.: 82399
ICS Source: SPEX, Ultra

Analytical Run #: 72201
Lab Sample ID: 878884
ICP MRL Standard Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R	Lower Limit (1)	Upper Limit (1)	M
Aluminum	12/03/2010 14:32	500000	553000	111	80	120	P
Antimony	12/03/2010 14:32	500.0	580.0	116	80	120	P
Arsenic	12/03/2010 14:32	500.0	552.0	110	80	120	P
Barium	12/03/2010 14:32	500.0	595.0	119	80	120	P
Beryllium	12/03/2010 14:32	500.0	410.0	82	80	120	P
Cadmium	12/03/2010 14:32	500.0	442.0	88	80	120	P
Calcium	12/03/2010 14:32	500000	585000	117	80	120	P
Chromium	12/03/2010 14:32	500.0	474.0	95	80	120	P
Cobalt	12/03/2010 14:32	500.0	442.0	88	80	120	P
Copper	12/03/2010 14:32	500.0	509.0	102	80	120	P
Iron	12/03/2010 14:32	500000	467000	93	80	120	P
Lead	12/03/2010 14:32	500.0	480.0	96	80	120	P
Magnesium	12/03/2010 14:32	500000	504000	101	80	120	P
Manganese	12/03/2010 14:32	500.0	561.0	112	80	120	P
Nickel	12/03/2010 14:32	500.0	469.0	94	80	120	P
Selenium	12/03/2010 14:32	500.0	491.0	98	80	120	P
Silver	12/03/2010 14:32	500.0	535.0	107	80	120	P
Thallium	12/03/2010 14:32	500.0	477.0	95	80	120	P
Vanadium	12/03/2010 14:32	500.0	536.0	107	80	120	P
Zinc	12/03/2010 14:32	500.0	537.0	107	80	120	P

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Sample No:

4-2

ICP INTERFERENCE CHECK SAMPLE (SOL. AB)

ICSAB

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
ICP ID Number:	TJA 6000	SDG No.:	82399
ICS Source:	SPEX, Ultra		

CT LABORATORIES
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Sample No:

4-2

ICP INTERFERENCE CHECK SAMPLE (SOL. AB)

ICSAB

Lab Name: CT Laboratories
Contract: USACE - LOUISVILLE-RAVENNA
ICP ID Number: TJA 6000
SDG No.: 82399
ICS Source: SPEX, Ultra

Analytical Run #: 72201
Lab Sample ID: 881163
ICP MRL Standard Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R	Lower Limit (1)	Upper Limit (1)	M
Aluminum	12/09/2010 16:01	500000	520000	104	80	120	P
Antimony	12/09/2010 16:01	500.0	539.0	108	80	120	P
Arsenic	12/09/2010 16:01	500.0	467.0	93	80	120	P
Barium	12/09/2010 16:01	500.0	460.0	92	80	120	P
Beryllium	12/09/2010 16:01	500.0	482.0	96	80	120	P
Cadmium	12/09/2010 16:01	500.0	427.0	85	80	120	P
Calcium	12/09/2010 16:01	500000	522000	104	80	120	P
Chromium	12/09/2010 16:01	500.0	486.0	97	80	120	P
Cobalt	12/09/2010 16:01	500.0	571.0	114	80	120	P
Copper	12/09/2010 16:01	500.0	447.0	89	80	120	P
Iron	12/09/2010 16:01	500000	514000	103	80	120	P
Lead	12/09/2010 16:01	500.0	443.0	89	80	120	P
Magnesium	12/09/2010 16:01	500000	498000	100	80	120	P
Manganese	12/09/2010 16:01	500.0	476.0	95	80	120	P
Nickel	12/09/2010 16:01	500.0	430.0	86	80	120	P
Selenium	12/09/2010 16:01	500.0	435.0	87	80	120	P
Silver	12/09/2010 16:01	500.0	459.0	92	80	120	P
Thallium	12/09/2010 16:01	500.0	450.0	90	80	120	P
Vanadium	12/09/2010 16:01	500.0	542.0	108	80	120	P
Zinc	12/09/2010 16:01	500.0	494.0	99	80	120	P

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Sample No:

4-2

ICP INTERFERENCE CHECK SAMPLE (SOL. AB)

ICSAB

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
ICP ID Number:	TJA 6000	SDG No.:	82399
ICS Source:	SPEX, Ultra		

CT LABORATORIES
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Sample No:

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ICP INTERFERENCE CHECK SAMPLE (SOL. AB)

ICSAB

Lab Name: CT Laboratories
Contract: USACE - LOUISVILLE-RAVENNA
ICP ID Number: TJA 6000
SDG No.: 82399
ICS Source: SPEX, Ultra

Analytical Run #: 72203
Lab Sample ID: 881170
ICP MRL Standard Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R	Lower Limit (1)	Upper Limit (1)	M
Aluminum	12/09/2010 16:01	500000	520000	104	80	120	P
Calcium	12/09/2010 16:01	500000	522000	104	80	120	P
Iron	12/09/2010 16:01	500000	514000	103	80	120	P
Magnesium	12/09/2010 16:01	500000	498000	100	80	120	P
Manganese	12/09/2010 16:01	500.0	476.0	95	80	120	P
Selenium	12/09/2010 16:01	500.0	435.0	87	80	120	P
Thallium	12/09/2010 16:01	500.0	450.0	90	80	120	P

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Sample No:

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ICP INTERFERENCE CHECK SAMPLE (SOL. AB)

ICSAB

Lab Name: CT Laboratories
Contract: USACE - LOUISVILLE-RAVENNA
ICP ID Number: TJA 6000
SDG No.: 82399
ICS Source: SPEX, Ultra

Analytical Run #: 72203
Lab Sample ID: 882699
ICP MRL Standard Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R	Lower Limit (1)	Upper Limit (1)	M
Aluminum	12/03/2010 14:32	500000	553000	111	80	120	P
Antimony	12/03/2010 14:32	500.0	580.0	116	80	120	P
Arsenic	12/03/2010 14:32	500.0	552.0	110	80	120	P
Barium	12/03/2010 14:32	500.0	595.0	119	80	120	P
Beryllium	12/03/2010 14:32	500.0	410.0	82	80	120	P
Cadmium	12/03/2010 14:32	500.0	442.0	88	80	120	P
Calcium	12/03/2010 14:32	500000	585000	117	80	120	P
Chromium	12/03/2010 14:32	500.0	474.0	95	80	120	P
Cobalt	12/03/2010 14:32	500.0	442.0	88	80	120	P
Copper	12/03/2010 14:32	500.0	509.0	102	80	120	P
Iron	12/03/2010 14:32	500000	467000	93	80	120	P
Lead	12/03/2010 14:32	500.0	480.0	96	80	120	P
Magnesium	12/03/2010 14:32	500000	504000	101	80	120	P
Manganese	12/03/2010 14:32	500.0	561.0	112	80	120	P
Nickel	12/03/2010 14:32	500.0	469.0	94	80	120	P
Selenium	12/03/2010 14:32	500.0	491.0	98	80	120	P
Silver	12/03/2010 14:32	500.0	535.0	107	80	120	P
Thallium	12/03/2010 14:32	500.0	477.0	95	80	120	P
Vanadium	12/03/2010 14:32	500.0	536.0	107	80	120	P
Zinc	12/03/2010 14:32	500.0	537.0	107	80	120	P

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Sample No:

4-2

ICP INTERFERENCE CHECK SAMPLE (SOL. AB)

ICSAB

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
ICP ID Number:	TJA 6000	SDG No.:	82399
ICS Source:	SPEX, Ultra		

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5A

SPIKE SAMPLE RECOVERY

Sample Description

DLASS-014-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID SDG No.: 82399

% Solids for Sample: 96.9 Concentration Units: mg/kg

Analytical Run #: 71910 Sample No 873483 Parent Sample No.: 870201

Analytical Prep Batch # 35475 Analytical Preparation Date/Time: 11/18/2010 17:30

Analysis Type *Initial Analysis* Analysis Date: ----- 11/19/2010 Analysis Time: -------- 20:41

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Aluminum	80-120	14400		10200		5260	80		P	
Antimony	80-120	1.8		2.4		25.8	-2		P	*FAIL*
Arsenic	80-120	98.0		10.8		103	85		P	
Barium	80-120	196		94.4		103	99		P	
Beryllium	80-120	3.2		0.63		2.6	99		P	
Cadmium	80-120	3.3		1.1		2.6	85		P	
Iron	80-120	25500		22500		5210	58		P	*FAIL*
Lead	80-120	50.8		30.4		25.8	79		P	*FAIL*
Manganese	80-120	702		738		542	-7		P	*FAIL*
Selenium	80-120	81.0		0.87		103	78		P	*FAIL*
Silver	75-120	1.9		0.15		2.6	67		P	*FAIL*
Thallium	80-120	75.3		0.92		103	72		P	*FAIL*
Vanadium	80-120	45.0		22.8		25.8	86		P	
Zinc	80-120	67.1		47.6		25.8	76		P	*FAIL*

BDL = analyte concentration was below detection limit

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5A

SPIKE SAMPLE RECOVERY

Sample Description

DLASS-014-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82399
% Solids for Sample:	96.9	Concentration Units:	mg/kg

Analytical Run #: 71910 Sample No 873483 Parent Sample No.: 870201

Analytical Prep Batch # 35475 Analytical Preparation Date/Time: 11/18/2010 17:30

ReRun *Re-Analysis #3* Analysis Date: ----- 11/19/2010 Analysis Time: -------- 20:41

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Copper	80-120	24.7		14.6		12.9	78		P	*FAIL*

BDL = analyte concentration was below detection limit

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5A

SPIKE SAMPLE RECOVERY

Sample Description

DLASS-014-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID SDG No.: 82399

% Solids for Sample: 96.9 Concentration Units: mg/kg

Analytical Run #: 71910 Sample No 873483 Parent Sample No.: 870201

Analytical Prep Batch # 35475 Analytical Preparation Date/Time: 11/18/2010 17:30

ReRun *Re-Analysis #1* Analysis Date: ----- 11/29/2010 Analysis Time: -------- 16:21

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Calcium	80-120	8100		2880		5160	101		P	
Cobalt	80-120	33.2		10.9		25.8	86		P	
Magnesium	80-120	5420		2540		2580	112		P	

BDL = analyte concentration was below detection limit

Analytical Run #: 71910 Sample No 873483 Parent Sample No.: 870201

Analytical Prep Batch # 35475 Analytical Preparation Date/Time: 11/18/2010 17:30

ReRun *Re-Analysis #2* Analysis Date: ----- 11/29/2010 Analysis Time: -------- 16:21

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Chromium	80-120	135		156		10.3	-204		P	*FAIL*
Nickel	80-120	43.6		20.6		25.8	89		P	

BDL = analyte concentration was below detection limit

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5A

SPIKE SAMPLE RECOVERY

Sample Description

DLASS-014-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82399
% Solids for Sample:	96.9	Concentration Units:	mg/kg

Analytical Run #: 71911 Sample No 873483 Parent Sample No.: 870201

Analytical Prep Batch # 35475 Analytical Preparation Date/Time: 11/18/2010 17:30

Analysis Type *Initial Analysis* Analysis Date: ----- 11/22/2010 Analysis Time: -------- 07:55

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M
Potassium	80-120	3150		940		2500	88		P
Sodium	80-120	2120		55.5		2500	83		P

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5A

SPIKE SAMPLE RECOVERY

Sample Description

DLASS-010-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID SDG No.: 82399

% Solids for Sample: 97.6 Concentration Units: mg/kg

Analytical Run #: 72201 Sample No 877405 Parent Sample No.: 869552

Analytical Prep Batch # 35623 Analytical Preparation Date/Time: 12/02/2010 16:30

Analysis Type *Initial Analysis* Analysis Date: ----- 12/03/2010 Analysis Time: -------- 22:54

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Aluminum	80-120	19700		12900		102	6667		P	*FAIL*
Antimony	80-120	47.1		1.4		25.6	179		P	*FAIL*
Arsenic	80-120	180		11.3		102	165		P	*FAIL*
Barium	80-120	274		96.8		102	174		P	*FAIL*
Beryllium	80-120	4.9		0.68		2.6	162		P	*FAIL*
Cadmium	80-120	3.9		0.26		2.6	140		P	*FAIL*
Calcium	80-120	21800		4840		5120	331		P	*FAIL*
Chromium	80-120	63.0		58.9		10.2	40		P	*FAIL*
Cobalt	80-120	48.3		9.9		25.6	150		P	*FAIL*
Copper	80-120	29.8		13.4		12.8	128		P	*FAIL*
Iron	80-120	26500		22700		51.2	7422		P	*FAIL*
Lead	80-120	24.2		19.5		25.6	18		P	*FAIL*
Magnesium	80-120	9840		2520		2560	286		P	*FAIL*
Nickel	80-120	56.9		21.1		25.6	140		P	*FAIL*
Selenium	80-120	163		0.80	J	102	159		P	*FAIL*
Silver	75-120	4.2		0.025	U	2.6	161		P	*FAIL*
Thallium	80-120	136		0.13	J	102	133		P	*FAIL*
Vanadium	80-120	64.0		23.1		25.6	160		P	*FAIL*
Zinc	80-120	87.1		63.0		25.6	94		P	

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5A

SPIKE SAMPLE RECOVERY

Sample Description

DLASS-010-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82399
% Solids for Sample:	97.6	Concentration Units:	mg/kg

Analytical Run #: 72201 Sample No 877405 Parent Sample No.: 869552

Analytical Prep Batch # 35623 Analytical Preparation Date/Time: 12/02/2010 16:30

ReRun *Re-Analysis #1* Analysis Date: ----- 12/09/2010 Analysis Time: -------- 21:59

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Manganese	80-120	825		907		25.6	-320		P	*FAIL*

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5A

SPIKE SAMPLE RECOVERY

Sample Description

DLASS-010-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82399
% Solids for Sample:	97.6	Concentration Units:	mg/kg

Analytical Run #: 72202 Sample No 877405 Parent Sample No.: 869552

Analytical Prep Batch # 35623 Analytical Preparation Date/Time: 12/02/2010 16:30

Analysis Type *Initial Analysis* Analysis Date: ----- 12/03/2010 Analysis Time: -------- 17:04

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M
Potassium	80-120	3020		917		2560	82		P
Sodium	80-120	2110		43.0		2560	81		P

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5A

SPIKE SAMPLE RECOVERY

Sample Description

DLASS-002-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID SDG No.: 82399

% Solids for Sample: 98.1 Concentration Units: mg/kg

Analytical Run #: 72203 Sample No 877410 Parent Sample No.: 870189

Analytical Prep Batch # 35624 Analytical Preparation Date/Time: 12/02/2010 16:30

Analysis Type *Initial Analysis* Analysis Date: ----- 12/03/2010 Analysis Time: -------- 19:50

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Aluminum	80-120	15900		10900		5150	97		P	
Antimony	80-120	70.8		99.4		25.5	-112		P	*FAIL*
Arsenic	80-120	97.9		10.1		102	86		P	
Barium	80-120	218		121		102	95		P	
Beryllium	80-120	2.9		0.57		2.5	93		P	
Cadmium	80-120	2.3		0.29		2.5	80		P	
Calcium	80-120	8310		3740		5100	90		P	
Chromium	80-120	91.7		110		10.2	-179		P	*FAIL*
Cobalt	80-120	30.7		9.1		25.5	85		P	
Copper	80-120	19.6		10.3		25.5	36		P	*FAIL*
Lead	80-120	52.5		48.6		25.5	15		P	*FAIL*
Nickel	80-120	32.4		12.8		25.5	77		P	*FAIL*
Selenium	80-120	78.5		1.7		102	75		P	*FAIL*
Silver	75-120	2.3		0.15		2.5	86		P	
Vanadium	80-120	42.9		21.5		25.5	84		P	
Zinc	80-120	76.5		58.6		25.5	70		P	*FAIL*

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5A

SPIKE SAMPLE RECOVERY

Sample Description

DLASS-002-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82399
% Solids for Sample:	98.1	Concentration Units:	mg/kg

Analytical Run #: 72203 Sample No 877410 Parent Sample No.: 870189

Analytical Prep Batch # 35624 Analytical Preparation Date/Time: 12/02/2010 16:30

ReRun *Re-Analysis #1* Analysis Date: ----- 12/09/2010 Analysis Time: -------- 19:01

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Iron	80-120	32300		29800		5150	49		P	*FAIL*
Magnesium	80-120	5500		2290		2550	126		P	*FAIL*
Manganese	80-120	1410		1510		535	-19		P	*FAIL*
Thallium	80-120	75.4		0.69		102	73		P	*FAIL*

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5A

SPIKE SAMPLE RECOVERY

Sample Description

DLASS-002-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82399
% Solids for Sample:	98.1	Concentration Units:	mg/kg

Analytical Run #: 72204 Sample No 877410 Parent Sample No.: 870189

Analytical Prep Batch # 35624 Analytical Preparation Date/Time: 12/02/2010 16:30

Analysis Type *Initial Analysis* Analysis Date: ----- 12/03/2010 Analysis Time: -------- 15:47

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M
Potassium	80-120	3010		948		2550	81		P
Sodium	80-120	2140		47.9		2550	82		P

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5A

SPIKE SAMPLE RECOVERY

Sample Description

DLASS-014-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82399
% Solids for Sample:	96.9	Concentration Units:	mg/kg

Analytical Run #: 72018 Sample No 874585 Parent Sample No.: 870201

Analytical Prep Batch # 35531 Analytical Preparation Date/Time: 11/23/2010 15:30

Analysis Type *Initial Analysis* Analysis Date: ----- 11/24/2010 Analysis Time: -------- 09:51

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Mercury	80-120	0.11		0.040		0.089	79		CV	*FAIL*

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5A

SPIKE SAMPLE RECOVERY

Sample Description

DLASS-010-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82399
% Solids for Sample:	97.6	Concentration Units:	mg/kg

Analytical Run #: 72326 Sample No 878269 Parent Sample No.: 869552

Analytical Prep Batch # 35686 Analytical Preparation Date/Time: 12/07/2010 15:30

Analysis Type *Initial Analysis* Analysis Date: ----- 12/08/2010 Analysis Time: -------- 13:42

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M
Mercury	80-120	0.11		0.035		0.093	81		CV

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5A

SPIKE SAMPLE RECOVERY

Sample Description

DLASS-002-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82399
% Solids for Sample:	98.1	Concentration Units:	mg/kg

Analytical Run #: 72327 Sample No 878275 Parent Sample No.: 870189

Analytical Prep Batch # 35687 Analytical Preparation Date/Time: 12/07/2010 15:30

Analysis Type *Initial Analysis* Analysis Date: ----- 12/08/2010 Analysis Time: -------- 14:10

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Mercury	80-120	0.18		0.11		0.093	75		CV	*FAIL*

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5B

POST DIGESTION SPIKE SAMPLE RECOVERY

Sample Description

DLASS-014-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82399
% Solids for Sample:	96.9	Concentration Units:	mg/L
Analytical Run #:	71911	Sample No	874801
Parent Sample No.:	870201		
Analytical Prep Batch #	0	Analytical Preparation Date/Time:	

Analysis Type	*Initial Analysis*	Analysis Date: -----	11/22/2010	Analysis Time: --------	08:00

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M
Potassium	75-125	134		37.6		100	96		P
Sodium	75-125	85.1		2.12	U	100	83		P

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5B

POST DIGESTION SPIKE SAMPLE RECOVERY

Sample Description

DLASS-014-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82399
% Solids for Sample:	96.9	Concentration Units:	ug/L

Analytical Run #: 71910 Sample No 875084 Parent Sample No.: 870201

Analytical Prep Batch # 0 Analytical Preparation Date/Time:

Analysis Type *Initial Analysis* Analysis Date: ----- 11/19/2010 Analysis Time: -------- 20:53

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Aluminum	75-125	349000.		197000.		204000	75		P	
Antimony	75-125	919.		47.4		1000	87		P	
Arsenic	75-125	3820.		209.		4000	90		P	
Barium	75-125	6040.		1830.		4000	105		P	
Beryllium	75-125	118.		12.2		100	106		P	
Cadmium	75-125	109.		20.4		100	89		P	
Iron	75-125	580000.		437000.		202000	71		P	*FAIL*
Lead	75-125	1470.		590.		1000	88		P	
Manganese	75-125	30700.		14300.		21000	78		P	
Selenium	75-125	3450.		16.9		4000	86		P	
Silver	75-125	74.7		2.84		100	72		P	*FAIL*
Thallium	75-125	3160.		7.15		4000	79		P	
Vanadium	75-125	1310.		441.		1000	87		P	
Zinc	75-125	1670.		923.		1000	75		P	

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5B

POST DIGESTION SPIKE SAMPLE RECOVERY

Sample Description: **DLASS-014-0001-SO**

Lab Name: CT Laboratories | Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID | SDG No.: 82399

% Solids for Sample: 96.9 | Concentration Units: ug/L

Analytical Run #: 71910 | Sample No 876019 | Parent Sample No.: 870201

Analytical Prep Batch # | Analytical Preparation Date/Time:

Analysis Type *Initial Analysis* | Analysis Date: ----- 11/29/2010 | Analysis Time: -------- 16:32

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Calcium	75-125	212000		22300.		200000	95		P	
Chromium	75-125	1390		1210.		400	45		P	*FAIL*
Cobalt	75-125	947		84.4		1000	86		P	
Magnesium	75-125	117000		19700.		100000	97		P	
Nickel	75-125	1030		160.		1000	87		P	

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5B

POST DIGESTION SPIKE SAMPLE RECOVERY

Sample Description

DLASS-014-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82399
% Solids for Sample:	96.9	Concentration Units:	ug/L
Analytical Run #:	71910	Sample No	877665
Parent Sample No.:	870201		
Analytical Prep Batch #		Analytical Preparation Date/Time:	

Analysis Type	*Initial Analysis*	Analysis Date: -----	11/19/2010	Analysis Time: --------	20:53

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M
Copper	75-125	702		282.		500	84		P

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5B

POST DIGESTION SPIKE SAMPLE RECOVERY

Sample Description

DLASS-010-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82399
% Solids for Sample:	97.6	Concentration Units:	mg/L
Analytical Run #:	72202	Sample No	878382
Parent Sample No.:	869552		
Analytical Prep Batch #	0	Analytical Preparation Date/Time:	

Analysis Type *Initial Analysis* Analysis Date: ----- 12/03/2010 Analysis Time: -------- 17:09

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M
Potassium	75-125	194.		35.8	J	200	79		P
Sodium	75-125	84.2		1.68	U	100	83		P

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5B

POST DIGESTION SPIKE SAMPLE RECOVERY

Sample Description

DLASS-002-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82399
% Solids for Sample:	98.1	Concentration Units:	mg/L

Analytical Run #: 72204 Sample No 878406 Parent Sample No.: 870189

Analytical Prep Batch # 0 Analytical Preparation Date/Time:

Analysis Type *Initial Analysis* Analysis Date: ----- 12/03/2010 Analysis Time: -------- 15:57

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M
Potassium	75-125	202.		37.2		200	82		P
Sodium	75-125	89.4		1.88	U	100	88		P

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5B

POST DIGESTION SPIKE SAMPLE RECOVERY

Sample Description: **DLASS-010-0001-SO**

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82399
% Solids for Sample:	97.6	Concentration Units:	ug/L

Analytical Run #: 72201 Sample No 878901 Parent Sample No.: 869552

Analytical Prep Batch # 0 Analytical Preparation Date/Time:

Analysis Type *Initial Analysis* Analysis Date: ----- 12/03/2010 Analysis Time: -------- 23:05

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Aluminum	75-125	359000.		251000.		104000	104		P	
Antimony	75-125	108.		27.7		1000	8		P	*FAIL*
Arsenic	75-125	1950.		220.		4000	43		P	*FAIL*
Barium	75-125	3780.		1890.		4000	47		P	*FAIL*
Beryllium	75-125	60.4		13.2		100	47		P	*FAIL*
Cadmium	75-125	38.1		5.00		100	33		P	*FAIL*
Calcium	75-125	189000.		94400.		200000	47		P	*FAIL*
Chromium	75-125	1200.		1150.		400	12		P	*FAIL*
Cobalt	75-125	449.		193.		1000	26		P	*FAIL*
Copper	75-125	457.		261.		500	39		P	*FAIL*
Iron	75-125	450000.		443000.		2000	350		P	*FAIL*
Lead	75-125	731.		380.		1000	35		P	*FAIL*
Magnesium	75-125	82500.		49200.		100000	33		P	*FAIL*
Nickel	75-125	741.		411.		1000	33		P	*FAIL*
Selenium	75-125	1550.		15.6		4000	38		P	*FAIL*
Silver	75-125	42.5		.492		100	42		P	*FAIL*
Vanadium	75-125	886.		450.		1000	44		P	*FAIL*
Zinc	75-125	1590.		1230.		1000	36		P	*FAIL*

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5B

POST DIGESTION SPIKE SAMPLE RECOVERY

Sample Description: **DLASS-002-0001-SO**

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82399
% Solids for Sample:	98.1	Concentration Units:	ug/L
Analytical Run #:	72203	Sample No	879415
Parent Sample No.:	870189		
Analytical Prep Batch #	0	Analytical Preparation Date/Time:	

Analysis Type: *Initial Analysis* Analysis Date: ----- 12/03/2010 Analysis Time: -------- 20:01

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Aluminum	75-125	373000.		214000.		204000	78		P	
Antimony	75-125	2460.		1950.		1000	51		P	*FAIL*
Arsenic	75-125	3590.		199.		4000	85		P	
Barium	75-125	5690.		2370.		4000	83		P	
Beryllium	75-125	95.0		11.1		100	84		P	
Cadmium	75-125	71.1		5.77		100	65		P	*FAIL*
Calcium	75-125	408000.		73400.		400000	84		P	
Chromium	75-125	2130.		2150.		400	-5		P	*FAIL*
Cobalt	75-125	857.		178.		1000	68		P	*FAIL*
Copper	75-125	550.		203.		500	69		P	*FAIL*
Lead	75-125	1460.		954.		1000	51		P	*FAIL*
Nickel	75-125	924.		252.		1000	67		P	*FAIL*
Selenium	75-125	3140.		33.6		4000	78		P	
Silver	75-125	81.3		2.88		100	78		P	
Vanadium	75-125	1270.		421.		1000	85		P	
Zinc	75-125	1690.		1150.		1000	54		P	*FAIL*

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5B

POST DIGESTION SPIKE SAMPLE RECOVERY

Sample Description

DLASS-002-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82399
% Solids for Sample:	98.1	Concentration Units:	ug/L
Analytical Run #:	72641	Sample No	879415
Parent Sample No.:	870189		
Analytical Prep Batch #	0	Analytical Preparation Date/Time:	

ReRun *Re-Analysis #1* Analysis Date: ----- 12/21/2010 Analysis Time: -------- 1300

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M
Iron	75-125					2000	1850		P
Magnesium	75-125					100000	131		P
Manganese	75-125					1000	1540		P
Thallium	75-125					4000	66		P

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5B

POST DIGESTION SPIKE SAMPLE RECOVERY

Sample Description: **DLASS-002-0001-SO**

Lab Name: CT Laboratories | Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID | SDG No.: 82399

% Solids for Sample: 98.1 | Concentration Units: ug/L

Analytical Run #: 72203 | Sample No 881766 | Parent Sample No.: 870189

Analytical Prep Batch # | Analytical Preparation Date/Time:

Analysis Type *Initial Analysis* | Analysis Date: ----- 12/09/2010 | Analysis Time: -------- 19:12

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Iron	75-125	665000		585000.		202000	40		P	*FAIL*
Magnesium	75-125	230000		45000.		200000	92		P	
Manganese	75-125	36200		29600.		21000	31		P	*FAIL*
Thallium	75-125	3270		13.6		4000	81		P	

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5B

POST DIGESTION SPIKE SAMPLE RECOVERY

Sample Description

DLASS-010-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82399
% Solids for Sample:	97.6	Concentration Units:	ug/L
Analytical Run #:	72201	Sample No	882030
Parent Sample No.:	869552		
Analytical Prep Batch #		Analytical Preparation Date/Time:	

Analysis Type	*Initial Analysis*	Analysis Date: -----	12/09/2010	Analysis Time: --------	22:31

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Manganese	75-125	30500		17700.		21000	61		P	*FAIL*
Thallium	75-125	3160		15.2		4000	79		P	

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5B

POST DIGESTION SPIKE SAMPLE RECOVERY

Sample Description

DLASS-014-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82399
% Solids for Sample:	96.9	Concentration Units:	mg/kg
Analytical Run #:	72018	Sample No	875794
Parent Sample No.:	870201		
Analytical Prep Batch #	0	Analytical Preparation Date/Time:	

Analysis Type	*Initial Analysis*	Analysis Date: -----	11/24/2010	Analysis Time: --------	09:55

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Mercury	80-120	1.78		0.94		2	42		CV	*FAIL*

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5B

POST DIGESTION SPIKE SAMPLE RECOVERY

Sample Description

DLASS-010-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82399
% Solids for Sample:	97.6	Concentration Units:	mg/kg

Analytical Run #: 72326 Sample No 879516 Parent Sample No.: 869552

Analytical Prep Batch # 0 Analytical Preparation Date/Time:

Analysis Type *Initial Analysis* Analysis Date: ----- 12/08/2010 Analysis Time: -------- 13:46

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M
Mercury	80-120	2.68		0.78		2	95		CV

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5B

POST DIGESTION SPIKE SAMPLE RECOVERY

Sample Description

DLASS-002-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82399
% Solids for Sample:	98.1	Concentration Units:	ug/L
Analytical Run #:	72327	Sample No	879542
Parent Sample No.:	870189		
Analytical Prep Batch #	0	Analytical Preparation Date/Time:	

Analysis Type *Initial Analysis* Analysis Date: ----- 12/08/2010 Analysis Time: -------- 14:18

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M
Mercury	80-120	4.42		2.47		2	98		CV

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5C

Sample Description

DLASS-014-0001-SO

SPIKE DUPLICATE SAMPLE RECOVERY

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID SDG No.: 82399

% Solids for Sample: 96.9 Concentration Units: mg/kg

Analytical Run #: 71910 Sample No 873484 Parent Sample No.: 873483

Analytical Prep Batch # 35475 Analytical Preparation Date/Time: 11/18/2010 17:30

Analysis Type *Initial Analysis* Analysis Date: ----- 11/19/2010 Analysis Time: -------- 20:47

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Aluminum	80-120	15300		10200		5260	97		P	
Antimony	80-120	7.5		2.4		25.8	20		P	*FAIL*
Arsenic	80-120	101		10.8		103	88		P	
Barium	80-120	205		94.4		103	107		P	
Beryllium	80-120	3.3		0.63		2.6	103		P	
Cadmium	80-120	3.4		1.1		2.6	88		P	
Iron	80-120	27200		22500		5210	90		P	
Lead	80-120	52.6		30.4		25.8	86		P	
Manganese	80-120	738		738		542	0		P	*FAIL*
Selenium	80-120	85.1		0.87		103	82		P	
Silver	75-120	2.0		0.15		2.6	71		P	*FAIL*
Thallium	80-120	77.9		0.92		103	75		P	*FAIL*
Vanadium	80-120	47.2		22.8		25.8	95		P	
Zinc	80-120	70.2		47.6		25.8	88		P	

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5C

SPIKE DUPLICATE SAMPLE RECOVERY

Sample Description

DLASS-014-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82399
% Solids for Sample:	96.9	Concentration Units:	mg/kg
Analytical Run #:	71910	Sample No	873484
Parent Sample No.:	873483		
Analytical Prep Batch #	35475	Analytical Preparation Date/Time:	11/18/2010 17:30

ReRun *Re-Analysis #3* Analysis Date: ----- 11/19/2010 Analysis Time: -------- 20:47

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M
Copper	80-120	25.8		14.6		12.9	87		P

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5C

Sample Description

DLASS-014-0001-SO

SPIKE DUPLICATE SAMPLE RECOVERY

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID SDG No.: 82399

% Solids for Sample: 96.9 Concentration Units: mg/kg

Analytical Run #: 71910 Sample No 873484 Parent Sample No.: 873483

Analytical Prep Batch # 35475 Analytical Preparation Date/Time: 11/18/2010 17:30

ReRun *Re-Analysis #1* Analysis Date: ----- 11/29/2010 Analysis Time: -------- 16:27

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Calcium	80-120	8270		2880		5160	104		P	
Cobalt	80-120	33.4		10.9		25.8	87		P	
Magnesium	80-120	5340		2540		2580	109		P	

BDL = analyte concentration was below detection limit

Analytical Run #: 71910 Sample No 873484 Parent Sample No.: 873483

Analytical Prep Batch # 35475 Analytical Preparation Date/Time: 11/18/2010 17:30

ReRun *Re-Analysis #2* Analysis Date: ----- 11/29/2010 Analysis Time: -------- 16:27

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Chromium	80-120	137		156		10.3	-184		P	*FAIL*
Nickel	80-120	43.7		20.6		25.8	90		P	

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5C

SPIKE DUPLICATE SAMPLE RECOVERY

Sample Description

DLASS-014-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82399
% Solids for Sample:	96.9	Concentration Units:	mg/kg

Analytical Run #: 71911 Sample No 873484 Parent Sample No.: 873483

Analytical Prep Batch # 35475 Analytical Preparation Date/Time: 11/18/2010 17:30

Analysis Type *Initial Analysis* Analysis Date: ----- 11/22/2010 Analysis Time: -------- 07:58

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M
Potassium	80-120	3130		940		2500	88		P
Sodium	80-120	2150		55.5		2500	84		P

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5C

Sample Description

DLASS-010-0001-SO

SPIKE DUPLICATE SAMPLE RECOVERY

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID SDG No.: 82399

% Solids for Sample: 97.6 Concentration Units: mg/kg

Analytical Run #: 72201 Sample No 877406 Parent Sample No.: 877405

Analytical Prep Batch # 35623 Analytical Preparation Date/Time: 12/02/2010 16:30

Analysis Type *Initial Analysis* Analysis Date: ----- 12/03/2010 Analysis Time: -------- 23:00

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Aluminum	80-120	16200		12900		102	3235		P	*FAIL*
Antimony	80-120	4.7		1.4		25.6	13		P	*FAIL*
Arsenic	80-120	92.7		11.3		102	80		P	*FAIL*
Barium	80-120	176		96.8		102	78		P	*FAIL*
Beryllium	80-120	2.8		0.68		2.6	82		P	*FAIL*
Cadmium	80-120	2.0		0.26		2.6	67		P	*FAIL*
Calcium	80-120	8560		4840		5120	73		P	*FAIL*
Chromium	80-120	53.3		58.9		10.2	-55		P	*FAIL*
Cobalt	80-120	24.6		9.9		25.6	57		P	*FAIL*
Copper	80-120	21.6		13.4		12.8	64		P	*FAIL*
Iron	80-120	22100		22700		51.2	-1172		P	*FAIL*
Lead	80-120	34.7		19.5		25.6	59		P	*FAIL*
Magnesium	80-120	4010		2520		2560	58		P	*FAIL*
Nickel	80-120	36.1		21.1		25.6	59		P	*FAIL*
Selenium	80-120	72.2		0.80	J	102	70		P	*FAIL*
Silver	75-120	2.0		0.025	U	2.6	76		P	*FAIL*
Thallium	80-120	67.6		0.13	J	102	66		P	*FAIL*
Vanadium	80-120	41.5		23.1		25.6	72		P	*FAIL*
Zinc	80-120	74.3		63.0		25.6	44		P	*FAIL*

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5C

SPIKE DUPLICATE SAMPLE RECOVERY

Sample Description

DLASS-010-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82399
% Solids for Sample:	97.6	Concentration Units:	mg/kg

Analytical Run #: 72201 Sample No 877406 Parent Sample No.: 877405

Analytical Prep Batch # 35623 Analytical Preparation Date/Time: 12/02/2010 16:30

ReRun *Re-Analysis #1* Analysis Date: ----- 12/09/2010 Analysis Time: -------- 22:25

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Manganese	80-120	733		907		25.6	-680		P	*FAIL*

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5C

SPIKE DUPLICATE SAMPLE RECOVERY

Sample Description

DLASS-010-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82399
% Solids for Sample:	97.6	Concentration Units:	mg/kg

Analytical Run #: 72202 Sample No 877406 Parent Sample No.: 877405

Analytical Prep Batch # 35623 Analytical Preparation Date/Time: 12/02/2010 16:30

Analysis Type *Initial Analysis* Analysis Date: ----- 12/03/2010 Analysis Time: -------- 17:07

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M
Potassium	80-120	3000		917		2560	81		P
Sodium	80-120	2150		43.0		2560	82		P

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5C

Sample Description

DLASS-002-0001-SO

SPIKE DUPLICATE SAMPLE RECOVERY

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82399
% Solids for Sample:	98.1	Concentration Units:	mg/kg

Analytical Run #: 72203 Sample No 877411 Parent Sample No.: 877410

Analytical Prep Batch # 35624 Analytical Preparation Date/Time: 12/02/2010 16:30

Analysis Type *Initial Analysis* Analysis Date: ----- 12/03/2010 Analysis Time: -------- 19:56

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Aluminum	80-120	15300		10900		5150	85		P	
Antimony	80-120	76.5		99.4		25.5	-90		P	*FAIL*
Arsenic	80-120	95.8		10.1		102	84		P	
Barium	80-120	205		121		102	82		P	
Beryllium	80-120	2.8		0.57		2.5	89		P	
Cadmium	80-120	2.1		0.29		2.5	72		P	*FAIL*
Calcium	80-120	7900		3740		5100	82		P	
Chromium	80-120	95.8		110		10.2	-139		P	*FAIL*
Cobalt	80-120	27.5		9.1		25.5	72		P	*FAIL*
Copper	80-120	19.4		10.3		12.7	72		P	*FAIL*
Nickel	80-120	30.7		12.8		25.5	70		P	*FAIL*
Selenium	80-120	75.4		1.7		102	72		P	*FAIL*
Silver	75-120	2.2		0.15		2.5	82		P	
Vanadium	80-120	41.3		21.5		25.5	78		P	*FAIL*
Zinc	80-120	73.9		58.6		25.5	60		P	*FAIL*

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5C

SPIKE DUPLICATE SAMPLE RECOVERY

Sample Description

DLASS-002-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82399
% Solids for Sample:	98.1	Concentration Units:	mg/kg

Analytical Run #: 72203 Sample No 877411 Parent Sample No.: 877410

Analytical Prep Batch # 35624 Analytical Preparation Date/Time: 12/02/2010 16:30

ReRun *Re-Analysis #2* Analysis Date: ----- 12/03/2010 Analysis Time: -------- 19:56

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Lead	80-120	60.1		48.6		25.5	45		P	*FAIL*

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5C

Sample Description

DLASS-002-0001-SO

SPIKE DUPLICATE SAMPLE RECOVERY

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID SDG No.: 82399

% Solids for Sample: 98.1 Concentration Units: mg/kg

Analytical Run #: 72203 Sample No 877411 Parent Sample No.: 877410

Analytical Prep Batch # 35624 Analytical Preparation Date/Time: 12/02/2010 16:30

ReRun *Re-Analysis #1* Analysis Date: ----- 12/09/2010 Analysis Time: -------- 19:06

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Magnesium	80-120	4390		2290		2550	82		P	*FAIL*
Manganese	80-120	1170		1510		535	-64		P	*FAIL*
Thallium	80-120	73.4		0.69		102	71		P	*FAIL*

BDL = analyte concentration was below detection limit

Analytical Run #: 72203 Sample No 877411 Parent Sample No.: 877410

Analytical Prep Batch # 35624 Analytical Preparation Date/Time: 12/02/2010 16:30

ReRun *Re-Analysis #3* Analysis Date: ----- 12/09/2010 Analysis Time: -------- 19:06

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Iron	80-120	27700		29800		5200	-40		P	*FAIL*

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5C

SPIKE DUPLICATE SAMPLE RECOVERY

Sample Description

DLASS-002-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82399
% Solids for Sample:	98.1	Concentration Units:	mg/kg

Analytical Run #: 72204 Sample No 877411 Parent Sample No.: 877410

Analytical Prep Batch # 35624 Analytical Preparation Date/Time: 12/02/2010 16:30

Analysis Type *Initial Analysis* Analysis Date: ----- 12/03/2010 Analysis Time: -------- 15:49

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M
Potassium	80-120	2980		948		2550	80		P
Sodium	80-120	2140		47.9		2550	82		P

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5C

SPIKE DUPLICATE SAMPLE RECOVERY

Sample Description

DLASS-014-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82399
% Solids for Sample:	96.9	Concentration Units:	mg/kg

Analytical Run #: 72018 Sample No 874586 Parent Sample No.: 874585

Analytical Prep Batch # 35531 Analytical Preparation Date/Time: 11/23/2010 15:30

Analysis Type *Initial Analysis* Analysis Date: ----- 11/24/2010 Analysis Time: -------- 09:53

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M
Mercury	80-120	0.13		0.040		0.087	103		CV

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5C

SPIKE DUPLICATE SAMPLE RECOVERY

Sample Description

DLASS-010-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82399
% Solids for Sample:	97.6	Concentration Units:	mg/kg

Analytical Run #: 72326 Sample No 878270 Parent Sample No.: 878269

Analytical Prep Batch # 35686 Analytical Preparation Date/Time: 12/07/2010 15:30

Analysis Type *Initial Analysis* Analysis Date: ----- 12/08/2010 Analysis Time: -------- 13:44

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Mercury	80-120	0.079		0.035		0.085	52		CV	*FAIL*

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5C

SPIKE DUPLICATE SAMPLE RECOVERY

Sample Description

DLASS-002-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82399
% Solids for Sample:	98.1	Concentration Units:	mg/kg
Analytical Run #:	72327	Sample No	878276
Parent Sample No.:	878275		
Analytical Prep Batch #	35687	Analytical Preparation Date/Time:	12/07/2010 15:30
Analysis Type	*Initial Analysis*	Analysis Date: -----	12/08/2010
Analysis Time: --------	14:16		

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Mercury	80-120	0.17		0.11		0.088	68		CV	*FAIL*

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

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DUPLICATES

Sample Description

DLASS-014-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID SDG No.: 82399

% Solid for Sample: 96.9 Concentration Units: mg/kg

Analytical Run #: 71910 Sample #: 873481 Parent Sample #: 870201

Analytical Prep Batch # 35475 Analytical Preparation Date/Time: 11/18/2010 17:30

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M	
Aluminum	11/19/2010	20:36	20	10200		9600		6		P	
Antimony	11/19/2010	20:36	20	2.4		1.6		40		P	*FAIL*
Arsenic	11/19/2010	20:36	20	10.8		9.8		10		P	
Barium	11/19/2010	20:36	20	94.4		89.3		6		P	
Beryllium	11/19/2010	20:36	20	0.63		0.60		5		P	
Cadmium	11/19/2010	20:36	20	1.1		0.96		9		P	
Copper	11/19/2010	20:36	20	14.6		13.7		6		P	
Iron	11/19/2010	20:36	20	22500		21600		4		P	
Lead	11/19/2010	20:36	20	30.4		30.4		0		P	
Manganese	11/19/2010	20:36	20	738		697		6		P	
Selenium	11/19/2010	20:36	20	0.87	J	1.1		19		P	
Silver	11/19/2010	20:36	20	0.15		0.11	J	25		P	*FAIL*
Vanadium	11/19/2010	20:36	20	22.8		21.4		6		P	
Zinc	11/19/2010	20:36	20	47.6		45.5		5		P	

CT LABORATORIES
delivering more than data from your environmental analyses

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DUPLICATES

Sample Description

DLASS-014-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID SDG No.: 82399

% Solid for Sample: 96.9 Concentration Units: mg/kg

Analytical Run #: 71910 Sample #: 873481 Parent Sample #: 870201

Analytical Prep Batch # 35475 Analytical Preparation Date/Time: 11/18/2010 17:30

ReRun *Re-Analysis #1*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M
Calcium	11/29/2010	16:16	20	2880		2840		1		P
Cobalt	11/29/2010	16:16	20	10.9		10.3		6		P
Magnesium	11/29/2010	16:16	20	2540		2490		2		P

Analytical Run #: 71910 Sample #: 873481 Parent Sample #: 870201

Analytical Prep Batch # 35475 Analytical Preparation Date/Time: 11/18/2010 17:30

ReRun *Re-Analysis #2*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M
Chromium	11/29/2010	16:16	20	156		147		6		P
Nickel	11/29/2010	16:16	20	20.6		19.9		4		P

Analytical Run #: 71910 Sample #: 873481 Parent Sample #: 870201

Analytical Prep Batch # 35475 Analytical Preparation Date/Time: 11/18/2010 17:30

ReRun *Re-Analysis #3*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M	
Thallium	11/29/2010	16:16	20	0.92		0.37	J	87		P	*FAIL*

CT LABORATORIES
delivering more than data from your environmental analyses

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DUPLICATES

Sample Description

DLASS-014-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID SDG No.: 82399

% Solid for Sample: 96.9 Concentration Units: mg/kg

Analytical Run #: 71911 Sample #: 873481 Parent Sample #: 870201

Analytical Prep Batch # 35475 Analytical Preparation Date/Time: 11/18/2010 17:30

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M
Potassium	11/22/2010	07:53	20	970		935		1		P
Sodium	11/22/2010	07:53	20	54.7		52.5		1		P

CT LABORATORIES
delivering more than data from your environmental analyses

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DUPLICATES

Sample Description

DLASS-010-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID SDG No.: 82399

% Solid for Sample: 97.6 Concentration Units: mg/kg

Analytical Run #: 72201 Sample #: 877404 Parent Sample #: 869552

Analytical Prep Batch # 35623 Analytical Preparation Date/Time: 12/02/2010 16:30

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M	
Aluminum	12/03/2010	22:48	20	12900		12700		1		P	
Antimony	12/03/2010	22:48	20	1.4		1.6		10		P	
Arsenic	12/03/2010	22:48	20	11.3		10.9		3		P	
Barium	12/03/2010	22:48	20	96.8		99.4		3		P	
Beryllium	12/03/2010	22:48	20	0.68		0.67		2		P	
Cadmium	12/03/2010	22:48	20	0.26		0.32		21		P	*FAIL*
Calcium	12/03/2010	22:48	20	4840		4930		2		P	
Chromium	12/03/2010	22:48	20	58.9		55.3		6		P	
Cobalt	12/03/2010	22:48	20	9.9		10.1		3		P	
Copper	12/03/2010	22:48	20	13.4		13.8		3		P	
Iron	12/03/2010	22:48	20	22700		24400		7		P	
Lead	12/03/2010	22:48	20	19.5		18.1		7		P	
Magnesium	12/03/2010	22:48	20	2520		2680		6		P	
Nickel	12/03/2010	22:48	20	21.1		21.7		3		P	
Selenium	12/03/2010	22:48	20	0.80	J	1.2		42		P	*FAIL*
Silver	12/03/2010	22:48	20	0.11	U	0.078	J	103		P	*FAIL*
Vanadium	12/03/2010	22:48	20	23.1		23.9		4		P	
Zinc	12/03/2010	22:48	20	63.0		65.1		3		P	

CT LABORATORIES
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DUPLICATES

Sample Description

DLASS-010-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID SDG No.: 82399

% Solid for Sample: 97.6 Concentration Units: mg/kg

Analytical Run #: 72201 Sample #: 877404 Parent Sample #: 869552

Analytical Prep Batch # 35623 Analytical Preparation Date/Time: 12/02/2010 16:30

ReRun *Re-Analysis #1*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M
Manganese	12/09/2010	21:53	20	907		763		17		P

Analytical Run #: 72201 Sample #: 877404 Parent Sample #: 869552

Analytical Prep Batch # 35623 Analytical Preparation Date/Time: 12/02/2010 16:30

ReRun *Re-Analysis #2*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M
Thallium	12/09/2010	21:53	20	0.78		0.78		1		P

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DUPLICATES

Sample Description

DLASS-010-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID SDG No.: 82399

% Solid for Sample: 97.6 Concentration Units: mg/kg

Analytical Run #: 72202 Sample #: 877404 Parent Sample #: 869552

Analytical Prep Batch # 35623 Analytical Preparation Date/Time: 12/02/2010 16:30

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M
Potassium	12/03/2010	17:02	20	917		899		2		P
Sodium	12/03/2010	17:02	20	43.0		41.8		3		P

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DUPLICATES

Sample Description

DLASS-002-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID SDG No.: 82399

% Solid for Sample: 98.1 Concentration Units: mg/kg

Analytical Run #: 72203 Sample #: 877409 Parent Sample #: 870189

Analytical Prep Batch # 35624 Analytical Preparation Date/Time: 12/02/2010 16:30

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M	
Aluminum	12/03/2010	19:23	20	10900		11200		2		P	
Antimony	12/03/2010	19:23	20	99.4		88.7		11		P	
Arsenic	12/03/2010	19:23	20	10.1		10.3		2		P	
Barium	12/03/2010	19:23	20	121		117		3		P	
Beryllium	12/03/2010	19:23	20	0.57		0.59		4		P	
Cadmium	12/03/2010	19:23	20	0.29		0.21		32		P	*FAIL*
Calcium	12/03/2010	19:23	20	3740		3730		0		P	
Chromium	12/03/2010	19:23	20	110		106		3		P	
Cobalt	12/03/2010	19:23	20	9.1		9.2		2		P	
Copper	12/03/2010	19:23	20	10.3		11.6		12		P	
Lead	12/03/2010	19:23	20	48.6		50.8		4		P	
Nickel	12/03/2010	19:23	20	12.8		12.7		1		P	
Selenium	12/03/2010	19:23	20	1.7		0.49	J	111		P	*FAIL*
Silver	12/03/2010	19:23	20	0.15		0.11	U	312		P	*FAIL*
Vanadium	12/03/2010	19:23	20	21.5		21.6		0		P	
Zinc	12/03/2010	19:23	20	58.6		60.1		3		P	

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DUPLICATES

Sample Description

DLASS-002-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID SDG No.: 82399

% Solid for Sample: 98.1 Concentration Units: mg/kg

Analytical Run #: 72203 Sample #: 877409 Parent Sample #: 870189

Analytical Prep Batch # 35624 Analytical Preparation Date/Time: 12/02/2010 16:30

ReRun *Re-Analysis #1*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M
Thallium	12/09/2010	18:56	20	0.69		0.84		19		P

Analytical Run #: 72203 Sample #: 877409 Parent Sample #: 870189

Analytical Prep Batch # 35624 Analytical Preparation Date/Time: 12/02/2010 16:30

ReRun *Re-Analysis #2*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M
Iron	12/09/2010	18:56	20	29800		27700		7		P
Magnesium	12/09/2010	18:56	20	2290		2490		8		P
Manganese	12/09/2010	18:56	20	1510		1470		3		P

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DUPLICATES

Sample Description

DLASS-002-0001-SO

Lab Name: CT Laboratories

Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID

SDG No.: 82399

% Solid for Sample: 98.1

Concentration Units: mg/kg

Analytical Run #: 72204

Sample #: 877409

Parent Sample #: 870189

Analytical Prep Batch # 35624

Analytical Preparation Date/Time: 12/02/2010 16:30

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M
Potassium	12/03/2010	15:45	20	948		907		4		P
Sodium	12/03/2010	15:45	20	47.9		45.9		4		P

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DUPLICATES

Sample Description

DLASS-014-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID SDG No.: 82399

% Solid for Sample: 96.9 Concentration Units: mg/kg

Analytical Run #: 72018 Sample #: 874584 Parent Sample #: 870201

Analytical Prep Batch # 35531 Analytical Preparation Date/Time: 11/23/2010 15:30

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M
Mercury	11/24/2010	09:50	20	0.040		0.039		4		CV

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DUPLICATES

Sample Description

DLASS-010-0001-SO

Lab Name: CT Laboratories

Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID

SDG No.: 82399

% Solid for Sample: 97.6

Concentration Units: mg/kg

Analytical Run #: 72326

Sample #: 878268

Parent Sample #: 869552

Analytical Prep Batch # 35686

Analytical Preparation Date/Time: 12/07/2010 15:30

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M	
Mercury	12/08/2010	13:41	20	0.035		0.026		33		CV	*FAIL*

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DUPLICATES

Sample Description

DLASS-002-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID SDG No.: 82399

% Solid for Sample: 98.1 Concentration Units: mg/kg

Analytical Run #: 72327 Sample #: 878274 Parent Sample #: 870189

Analytical Prep Batch # 35687 Analytical Preparation Date/Time: 12/07/2010 15:30

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M
Mercury	12/08/2010	14:09	20	0.11		0.12		6		CV

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MATRIX SPIKE DUPLICATES

Sample Description

DLASS-014-0001-SO

Lab Name: CT Laboratories | Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID | SDG No.: 82399

% Solid for Sample: 96.9 | Concentration Units: mg/kg

Analytical Run #: 71910 | Sample #: 873484 | Parent Sample #: 873483

Analytical Prep Batch # 17 | Analytical Preparation Date/Time: 11/19/49 1

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Matrix Spik Parent Conc. (S)	C	Matrix Spike Duplicate Conc. (D)	C	RPD	Q	M	
Aluminum	11/19/2010	20:47	20	14400		15300		6		P	
Antimony	11/19/2010	20:47	20	1.8		7.5		122		P	*FAIL*
Arsenic	11/19/2010	20:47	20	98.0		101		3		P	
Barium	11/19/2010	20:47	20	196		205		5		P	
Beryllium	11/19/2010	20:47	20	3.2		3.3		5		P	
Cadmium	11/19/2010	20:47	20	3.3		3.4		3		P	
Iron	11/19/2010	20:47	20	25500		27200		6		P	
Lead	11/19/2010	20:47	20	50.8		52.6		3		P	
Manganese	11/19/2010	20:47	20	702		738		5		P	*FAIL*
Selenium	11/19/2010	20:47	20	81.0		85.1		5		P	
Silver	11/19/2010	20:47	20	1.9		2.0		5		P	*FAIL*
Thallium	11/19/2010	20:47	20	75.3		77.9		3		P	*FAIL*
Vanadium	11/19/2010	20:47	20	45.0		47.2		5		P	
Zinc	11/19/2010	20:47	20	67.1		70.2		5		P	

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MATRIX SPIKE DUPLICATES

Sample Description: **DLASS-014-0001-SO**

Lab Name: CT Laboratories | Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID | SDG No.: 82399

% Solid for Sample: 96.9 | Concentration Units: mg/kg

Analytical Run #: 71910 | Sample #: 873484 | Parent Sample #: 873483

Analytical Prep Batch # 17 | Analytical Preparation Date/Time: 11/29/50 2

ReRun *Re-Analysis #1*

Analyte	Analysis Date/Tim		RPD Limit	Matrix Spik Parent Conc. (S)	C	Matrix Spike Duplicate Conc. (D)	C	RPD	Q	M	
Calcium	11/29/2010	16:27	20	8100		8270		2		P	
Cobalt	11/29/2010	16:27	20	33.2		33.4		1		P	
Magnesium	11/29/2010	16:27	20	5420		5340		1		P	

Analytical Run #: 71910 | Sample #: 873484 | Parent Sample #: 873483

Analytical Prep Batch # 17 | Analytical Preparation Date/Time: 11/29/51 3

ReRun *Re-Analysis #2*

Analyte	Analysis Date/Tim		RPD Limit	Matrix Spik Parent Conc. (S)	C	Matrix Spike Duplicate Conc. (D)	C	RPD	Q	M	
Chromium	11/29/2010	16:27	20	135		137		1		P	*FAIL*
Nickel	11/29/2010	16:27	20	43.6		43.7		0		P	

Analytical Run #: 71910 | Sample #: 873484 | Parent Sample #: 873483

Analytical Prep Batch # 17 | Analytical Preparation Date/Time: 11/19/52 4

ReRun *Re-Analysis #3*

Analyte	Analysis Date/Tim		RPD Limit	Matrix Spik Parent Conc. (S)	C	Matrix Spike Duplicate Conc. (D)	C	RPD	Q	M	
Copper	11/19/2010	20:47	20	24.7		25.8		4		P	

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MATRIX SPIKE DUPLICATES

Sample Description

DLASS-014-0001-SO

Lab Name: CT Laboratories | Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID | SDG No.: 82399

% Solid for Sample: 96.9 | Concentration Units: mg/kg

Analytical Run #: 71911 | Sample #: 873484 | Parent Sample #: 873483

Analytical Prep Batch # 17 | Analytical Preparation Date/Time: 11/22/49 1

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Matrix Spik Parent Conc. (S)	C	Matrix Spike Duplicate Conc. (D)	C	RPD	Q	M
Potassium	11/22/2010	07:58	20	3150		3130		1		P
Sodium	11/22/2010	07:58	20	2120		2150		1		P

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MATRIX SPIKE DUPLICATES

Sample Description

DLASS-010-0001-SO

Lab Name: CT Laboratories | Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID | SDG No.: 82399

% Solid for Sample: 97.6 | Concentration Units: mg/kg

Analytical Run #: 72201 | Sample #: 877406 | Parent Sample #: 877405

Analytical Prep Batch # 16 | Analytical Preparation Date/Time: 12/03/49 1

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Matrix Spik Parent Conc. (S)	C	Matrix Spike Duplicate Conc. (D)	C	RPD	Q	M	
Aluminum	12/03/2010	23:00	20	19700		16200		20		P	*FAIL*
Antimony	12/03/2010	23:00	20	47.1		4.7		164		P	*FAIL*
Arsenic	12/03/2010	23:00	20	180		92.7		64		P	*FAIL*
Barium	12/03/2010	23:00	20	274		176		43		P	*FAIL*
Beryllium	12/03/2010	23:00	20	4.9		2.8		55		P	*FAIL*
Cadmium	12/03/2010	23:00	20	3.9		2.0		65		P	*FAIL*
Calcium	12/03/2010	23:00	20	21800		8560		87		P	*FAIL*
Chromium	12/03/2010	23:00	20	63.0		53.3		17		P	*FAIL*
Cobalt	12/03/2010	23:00	20	48.3		24.6		65		P	*FAIL*
Copper	12/03/2010	23:00	20	29.8		21.6		32		P	*FAIL*
Iron	12/03/2010	23:00	20	26500		22100		18		P	*FAIL*
Lead	12/03/2010	23:00	20	24.2		34.7		36		P	*FAIL*
Magnesium	12/03/2010	23:00	20	9840		4010		84		P	*FAIL*
Nickel	12/03/2010	23:00	20	56.9		36.1		45		P	*FAIL*
Selenium	12/03/2010	23:00	20	163		72.2		77		P	*FAIL*
Silver	12/03/2010	23:00	20	4.2		2.0		69		P	*FAIL*
Thallium	12/03/2010	23:00	20	136		67.6		67		P	*FAIL*
Vanadium	12/03/2010	23:00	20	64.0		41.5		43		P	*FAIL*
Zinc	12/03/2010	23:00	20	87.1		74.3		16		P	*FAIL*

CT LABORATORIES
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MATRIX SPIKE DUPLICATES

Sample Description

DLASS-010-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID SDG No.: 82399

% Solid for Sample: 97.6 Concentration Units: mg/kg

Analytical Run #: 72201 Sample #: 877406 Parent Sample #: 877405

Analytical Prep Batch # 16 Analytical Preparation Date/Time: 12/09/50 2

ReRun *Re-Analysis #1*

Analyte	Analysis Date/Tim		RPD Limit	Matrix Spik Parent Conc. (S)	C	Matrix Spike Duplicate Conc. (D)	C	RPD	Q	M	
Manganese	12/09/2010	22:25	20	825		733		12		P	*FAIL*

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MATRIX SPIKE DUPLICATES

Sample Description

DLASS-010-0001-SO

Lab Name: CT Laboratories | Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID | SDG No.: 82399

% Solid for Sample: 97.6 | Concentration Units: mg/kg

Analytical Run #: 72202 | Sample #: 877406 | Parent Sample #: 877405

Analytical Prep Batch # 16 | Analytical Preparation Date/Time: 12/03/49 1

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Matrix Spik Parent Conc. (S)	C	Matrix Spike Duplicate Conc. (D)	C	RPD	Q	M
Potassium	12/03/2010	17:07	20	3020		3000		1		P
Sodium	12/03/2010	17:07	20	2110		2150		2		P

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MATRIX SPIKE DUPLICATES

Sample Description

DLASS-002-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID SDG No.: 82399

% Solid for Sample: 98.1 Concentration Units: mg/kg

Analytical Run #: 72203 Sample #: 877411 Parent Sample #: 877410

Analytical Prep Batch # 16 Analytical Preparation Date/Time: 12/03/49 1

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Matrix Spik Parent Conc. (S)	C	Matrix Spike Duplicate Conc. (D)	C	RPD	Q	M	
Aluminum	12/03/2010	19:56	20	15900		15300		4		P	
Antimony	12/03/2010	19:56	20	70.8		76.5		8		P	*FAIL*
Arsenic	12/03/2010	19:56	20	97.9		95.8		2		P	
Barium	12/03/2010	19:56	20	218		205		6		P	
Beryllium	12/03/2010	19:56	20	2.9		2.8		4		P	
Cadmium	12/03/2010	19:56	20	2.3		2.1		8		P	*FAIL*
Calcium	12/03/2010	19:56	20	8310		7900		5		P	
Chromium	12/03/2010	19:56	20	91.7		95.8		4		P	*FAIL*
Cobalt	12/03/2010	19:56	20	30.7		27.5		11		P	*FAIL*
Copper	12/03/2010	19:56	20	19.6		19.4		1		P	*FAIL*
Nickel	12/03/2010	19:56	20	32.4		30.7		5		P	*FAIL*
Selenium	12/03/2010	19:56	20	78.5		75.4		4		P	*FAIL*
Silver	12/03/2010	19:56	20	2.3		2.2		5		P	
Vanadium	12/03/2010	19:56	20	42.9		41.3		4		P	*FAIL*
Zinc	12/03/2010	19:56	20	76.5		73.9		3		P	*FAIL*

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MATRIX SPIKE DUPLICATES

Sample Description: **DLASS-002-0001-SO**

Lab Name: CT Laboratories | Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID | SDG No.: 82399

% Solid for Sample: 98.1 | Concentration Units: mg/kg

Analytical Run #: 72203 | Sample #: 877411 | Parent Sample #: 877410

Analytical Prep Batch # 16 | Analytical Preparation Date/Time: 12/09/50 2

ReRun *Re-Analysis #1*

Analyte	Analysis Date/Tim		RPD Limit	Matrix Spik Parent Conc. (S)	C	Matrix Spike Duplicate Conc. (D)	C	RPD	Q	M	
Magnesium	12/09/2010	19:06	20	5500		4390		22		P	*FAIL*
Manganese	12/09/2010	19:06	20	1410		1170		19		P	*FAIL*
Thallium	12/09/2010	19:06	20	75.4		73.4		3		P	*FAIL*

Analytical Run #: 72203 | Sample #: 877411 | Parent Sample #: 877410

Analytical Prep Batch # 16 | Analytical Preparation Date/Time: 12/03/51 3

ReRun *Re-Analysis #2*

Analyte	Analysis Date/Tim		RPD Limit	Matrix Spik Parent Conc. (S)	C	Matrix Spike Duplicate Conc. (D)	C	RPD	Q	M	
Lead	12/03/2010	19:56	20	52.5		60.1		14		P	*FAIL*

Analytical Run #: 72203 | Sample #: 877411 | Parent Sample #: 877410

Analytical Prep Batch # 16 | Analytical Preparation Date/Time: 12/09/52 4

ReRun *Re-Analysis #3*

Analyte	Analysis Date/Tim		RPD Limit	Matrix Spik Parent Conc. (S)	C	Matrix Spike Duplicate Conc. (D)	C	RPD	Q	M	
Iron	12/09/2010	19:06	20	32300		27700		15		P	*FAIL*

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MATRIX SPIKE DUPLICATES

Sample Description

DLASS-002-0001-SO

Lab Name: CT Laboratories | Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID | SDG No.: 82399

% Solid for Sample: 98.1 | Concentration Units: mg/kg

Analytical Run #: 72204 | Sample #: 877411 | Parent Sample #: 877410

Analytical Prep Batch # 16 | Analytical Preparation Date/Time: 12/03/49 1

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Matrix Spik Parent Conc. (S)	C	Matrix Spike Duplicate Conc. (D)	C	RPD	Q	M
Potassium	12/03/2010	15:49	20	3010		2980		1		P
Sodium	12/03/2010	15:49	20	2140		2140		0		P

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MATRIX SPIKE DUPLICATES

Sample Description

DLASS-014-0001-SO

Lab Name: CT Laboratories | Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID | SDG No.: 82399

% Solid for Sample: 96.9 | Concentration Units: mg/kg

Analytical Run #: 72018 | Sample #: 874586 | Parent Sample #: 874585

Analytical Prep Batch # 15 | Analytical Preparation Date/Time: 11/24/49 1

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Matrix Spik Parent Conc. (S)	C	Matrix Spike Duplicate Conc. (D)	C	RPD	Q	M
Mercury	11/24/2010	09:53	20	0.11		0.13		14		CV

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MATRIX SPIKE DUPLICATES

Sample Description

DLASS-010-0001-SO

Lab Name: CT Laboratories | Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID | SDG No.: 82399

% Solid for Sample: 97.6 | Concentration Units: mg/kg

Analytical Run #: 72326 | Sample #: 878270 | Parent Sample #: 878269

Analytical Prep Batch # 15 | Analytical Preparation Date/Time: 12/08/49 1

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Matrix Spik Parent Conc. (S)	C	Matrix Spike Duplicate Conc. (D)	C	RPD	Q	M	
Mercury	12/08/2010	13:44	20	0.11		0.079		26		CV	*FAIL*

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MATRIX SPIKE DUPLICATES

Sample Description

DLASS-002-0001-SO

Lab Name: CT Laboratories | Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID | SDG No.: 82399

% Solid for Sample: 98.1 | Concentration Units: mg/kg

Analytical Run #: 72327 | Sample #: 878276 | Parent Sample #: 878275

Analytical Prep Batch # 15 | Analytical Preparation Date/Time: 12/08/49 1

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Matrix Spik Parent Conc. (S)	C	Matrix Spike Duplicate Conc. (D)	C	RPD	Q	M	
Mercury	12/08/2010	14:16	20	0.18		0.17		2		CV	*FAIL*

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Sample No:

LABORATORY CONTROL SAMPLE - AQUEOUS

LCS

Lab Name: CT Laboratories Contract

LCS Source: SPEX and Ultra SDG No.:

Concentration Units:

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Sample No:

LABORATORY CONTROL SAMPLE - SOLID

LCS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

LCS Source: SPEX and Ultra SDG No.: 82399

Concentration Units: mg/kg

Analytical Run #: 71910 Sample No.:#: 873323

Analytical Prep Batch #: 35475 Preparation Date/Time: 11/18/2010 17:30

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	C	Spike Amount	%R	Q	M
Aluminum	11/19/2010 19:46	80-120	93.3		100	93		P
Antimony	11/19/2010 19:46	80-120	25.0		25.0	100		P
Arsenic	11/19/2010 19:46	80-120	91.3		100	91		P
Barium	11/19/2010 19:46	80-120	104		100	104		P
Beryllium	11/19/2010 19:46	80-120	2.6		2.5	104		P
Cadmium	11/19/2010 19:46	80-120	2.3		2.5	92		P
Copper	11/19/2010 19:46	80-120	11.5		12.5	92		P
Iron	11/19/2010 19:46	80-120	50.5		50.0	101		P
Lead	11/19/2010 19:46	80-120	21.0		25.0	84		P
Manganese	11/19/2010 19:46	80-120	22.0		25.0	88		P
Selenium	11/19/2010 19:46	80-120	90.0		100	90		P
Silver	11/19/2010 19:46	75-120	2.3		2.5	92		P
Thallium	11/19/2010 19:46	80-120	82.5		100	82		P
Vanadium	11/19/2010 19:46	80-120	24.1		25.0	96		P
Zinc	11/19/2010 19:46	80-120	22.2		25.0	89		P

CT LABORATORIES
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Sample No:

LABORATORY CONTROL SAMPLE - SOLID

LCS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

LCS Source: SPEX and Ultra SDG No.: 82399

Concentration Units: mg/kg

Analytical Run #: 71910 Sample No.:#: 873323

Analytical Prep Batch #: 35475 Preparation Date/Time: 11/18/2010 17:30

ReRun Re-Analysis #1

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	C	Spike Amount	%R	Q	M
Calcium	11/29/2010 15:47	80-120	4930		5000	99		P
Cobalt	11/29/2010 15:47	80-120	24.6		25.0	98		P
Magnesium	11/29/2010 15:47	80-120	2400		2500	96		P
Nickel	11/29/2010 15:47	80-120	22.2		25.0	89		P

Analytical Run #: 71910 Sample No.:#: 873323

Analytical Prep Batch #: 35475 Preparation Date/Time: 11/18/2010 17:30

ReRun Re-Analysis #2

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	C	Spike Amount	%R	Q	M
Chromium	11/29/2010 15:47	80-120	9.1		10.0	91		P

CT LABORATORIES
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Sample No:

LABORATORY CONTROL SAMPLE - SOLID

LCS

Lab Name: CT Laboratories Contract USACE - LOUISVILLE-RAVENNA

LCS Source: SPEX and Ultra SDG No.: 82399

Concentration Units: mg/kg

Analytical Run #: 71911 Sample No.:#: 873323

Analytical Prep Batch #: 35475 Preparation Date/Time: 11/18/2010 17:30

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	C	Spike Amount	%R	Q	M
Potassium	11/22/2010 07:41	80-120	2340		2500	94		P
Sodium	11/22/2010 07:41	80-120	2190		2500	88		P

CT LABORATORIES
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Sample No:

LABORATORY CONTROL SAMPLE - SOLID

LCS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

LCS Source: SPEX and Ultra SDG No.: 82399

Concentration Units: mg/kg

Analytical Run #: 72201 Sample No.:#: 877403

Analytical Prep Batch #: 35623 Preparation Date/Time: 12/02/2010 16:30

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	C	Spike Amount	%R	Q	M
Aluminum	12/03/2010 22:26	80-120	95.0		100	95		P
Antimony	12/03/2010 22:26	80-120	25.8		25.0	103		P
Arsenic	12/03/2010 22:26	80-120	92.5		100	92		P
Barium	12/03/2010 22:26	80-120	89.5		100	90		P
Beryllium	12/03/2010 22:26	80-120	2.2		2.5	88		P
Calcium	12/03/2010 22:26	80-120	4430		5000	89		P
Cobalt	12/03/2010 22:26	80-120	24.3		25.0	97		P
Lead	12/03/2010 22:26	80-120	21.5		25.0	86		P
Nickel	12/03/2010 22:26	80-120	21.4		25.0	86		P
Selenium	12/03/2010 22:26	80-120	84.0		100	84		P
Silver	12/03/2010 22:26	75-120	2.2		2.5	88		P
Vanadium	12/03/2010 22:26	80-120	25.3		25.0	101		P
Zinc	12/03/2010 22:26	80-120	22.0		25.0	88		P

CT LABORATORIES
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Sample No:

LABORATORY CONTROL SAMPLE - SOLID

LCS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

LCS Source: SPEX and Ultra SDG No.: 82399

Concentration Units: mg/kg

Analytical Run #: 72201 Sample No.:#: 877403

Analytical Prep Batch #: 35623 Preparation Date/Time: 12/02/2010 16:30

ReRun Re-Analysis #1

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	C	Spike Amount	%R	Q	M
Cadmium	12/09/2010 21:32	80-120	2.1		2.5	84		P
Chromium	12/09/2010 21:32	80-120	9.4		10.0	94		P
Copper	12/09/2010 21:32	80-120	10.7		12.5	86		P
Iron	12/09/2010 21:32	80-120	46.5		50.0	93		P
Magnesium	12/09/2010 21:32	80-120	2130		2500	85		P
Thallium	12/09/2010 21:32	80-120	93.8		100	94		P

Analytical Run #: 72201 Sample No.:#: 877403

Analytical Prep Batch #: 35623 Preparation Date/Time: 12/02/2010 16:30

ReRun Re-Analysis #2

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	C	Spike Amount	%R	Q	M
Manganese	12/09/2010 21:32	80-120	22.8		25.0	91		P

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Sample No:

LABORATORY CONTROL SAMPLE - SOLID

LCS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

LCS Source: SPEX and Ultra SDG No.: 82399

Concentration Units: mg/kg

Analytical Run #: 72202 Sample No.:#: 877403

Analytical Prep Batch #: 35623 Preparation Date/Time: 12/02/2010 16:30

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	C	Spike Amount	%R	Q	M
Potassium	12/03/2010 16:47	80-120	2230		2500	89		P
Sodium	12/03/2010 16:47	80-120	2040		2500	82		P

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Sample No:

LABORATORY CONTROL SAMPLE - SOLID

LCS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

LCS Source: SPEX and Ultra SDG No.: 82399

Concentration Units: mg/kg

Analytical Run #: 72203 Sample No.:#: 877408

Analytical Prep Batch #: 35624 Preparation Date/Time: 12/02/2010 16:30

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	C	Spike Amount	%R	Q	M
Aluminum	12/03/2010 18:55	80-120	101		100	101		P
Antimony	12/03/2010 18:55	80-120	23.5		25.0	94		P
Arsenic	12/03/2010 18:55	80-120	92.8		100	93		P
Barium	12/03/2010 18:55	80-120	98.8		100	99		P
Beryllium	12/03/2010 18:55	80-120	2.3		2.5	92		P
Cadmium	12/03/2010 18:55	80-120	2.2		2.5	88		P
Calcium	12/03/2010 18:55	80-120	4730		5000	95		P
Chromium	12/03/2010 18:55	80-120	8.8		10.0	88		P
Cobalt	12/03/2010 18:55	80-120	24.7		25.0	99		P
Copper	12/03/2010 18:55	80-120	10.8		12.5	86		P
Iron	12/03/2010 18:55	80-120	47.8		50.0	96		P
Lead	12/03/2010 18:55	80-120	21.4		25.0	86		P
Magnesium	12/03/2010 18:55	80-120	2290		2500	92		P
Manganese	12/03/2010 18:55	80-120	23.8		25.0	95		P
Nickel	12/03/2010 18:55	80-120	21.9		25.0	88		P
Selenium	12/03/2010 18:55	80-120	91.5		100	92		P
Silver	12/03/2010 18:55	75-120	2.1		2.5	84		P
Thallium	12/03/2010 18:55	80-120	83.8		100	84		P
Vanadium	12/03/2010 18:55	80-120	22.2		25.0	89		P
Zinc	12/03/2010 18:55	80-120	22.5		25.0	90		P

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Sample No:

LABORATORY CONTROL SAMPLE - SOLID

LCS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

LCS Source: SPEX and Ultra SDG No.: 82399

Concentration Units: mg/kg

Analytical Run #: 72204 Sample No.:#: 877408

Analytical Prep Batch #: 35624 Preparation Date/Time: 12/02/2010 16:30

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	C	Spike Amount	%R	Q	M
Potassium	12/03/2010 15:32	80-120	2250		2500	90		P
Sodium	12/03/2010 15:32	80-120	2090		2500	84		P

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Sample No:

LABORATORY CONTROL SAMPLE - SOLID

LCS

Lab Name: CT Laboratories Contract USACE - LOUISVILLE-RAVENNA

LCS Source: SPEX and Ultra SDG No.: 82399

Concentration Units: mg/kg

Analytical Run #: 72018 Sample No.:#: 874583

Analytical Prep Batch #: 35531 Preparation Date/Time: 11/23/2010 15:30

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	C	Spike Amount	%R	Q	M
Mercury	11/24/2010 09:40	80-120	0.079		0.083	95		CV

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Sample No:

LABORATORY CONTROL SAMPLE - SOLID

LCS

Lab Name: CT Laboratories Contract USACE - LOUISVILLE-RAVENNA

LCS Source: SPEX and Ultra SDG No.: 82399

Concentration Units: mg/kg

Analytical Run #: 72326 Sample No.:#: 878267

Analytical Prep Batch #: 35686 Preparation Date/Time: 12/07/2010 15:30

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	C	Spike Amount	%R	Q	M
Mercury	12/08/2010 13:33	80-120	0.075		0.083	90		CV

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Sample No:

LABORATORY CONTROL SAMPLE - SOLID

LCS

Lab Name: CT Laboratories Contract USACE - LOUISVILLE-RAVENNA

LCS Source: SPEX and Ultra SDG No.: 82399

Concentration Units: mg/kg

Analytical Run #: 72327 Sample No.:#: 878272

Analytical Prep Batch #: 35687 Preparation Date/Time: 12/07/2010 15:30

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	C	Spike Amount	%R	Q	M
Mercury	12/08/2010 13:59	80-120	0.078		0.083	94		CV

CT LABORATORIES
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ICP SERIAL DILUTION

Sample Description

DLASS-014-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID SDG No.: 82399

Concentration Units: mg/L

LIMS Run #: 71911 Sample No.: 874800 Parent Sample No.: 870201

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Initial Sample Result (I)	C (I)	Serial Dilution Result (S)	C (S)	% Diff.	Q	M
Potassium	11/22/2010 07:51	37.6	U	39.55	U	5		P
Sodium	11/22/2010 07:51	2.12	U	2.005	U	5		P

CT LABORATORIES
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ICP SERIAL DILUTION

Sample Description: **DLASS-014-0001-SO**

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID SDG No.: 82399

Concentration Units: ug/L

LIMS Run #: 71910 Sample No.: 875083 Parent Sample No.: 870201

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Initial Sample Result (I)	C (I)	Serial Dilution Result (S)	C (S)	% Diff.	Q	M	
Aluminum	11/19/2010 20:30	197000.		217000		10		P	
Antimony	11/19/2010 20:30	47.4		43.45		8		P	
Arsenic	11/19/2010 20:30	209.		193		8		P	
Barium	11/19/2010 20:30	1830.		1905		4		P	
Beryllium	11/19/2010 20:30	12.2		12.8		5		P	
Cadmium	11/19/2010 20:30	20.4		23.85		17		P	*FAIL*
Copper	11/19/2010 20:30	282.		325.5		15		P	*FAIL*
Iron	11/19/2010 20:30	437000.		493500		13		P	*FAIL*
Lead	11/19/2010 20:30	590.		620		5		P	
Manganese	11/19/2010 20:30	14300.		14950		5		P	
Selenium	11/19/2010 20:30	16.9		39.6		134		P	*FAIL*
Silver	11/19/2010 20:30	2.84		2.945		4		P	
Vanadium	11/19/2010 20:30	441.		465		5		P	
Zinc	11/19/2010 20:30	923.		1060		15		P	*FAIL*

CT LABORATORIES
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ICP SERIAL DILUTION

Sample Description

DLASS-014-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID SDG No.: 82399

Concentration Units: ug/L

LIMS Run #: 71910 Sample No.: 877657 Parent Sample No.: 870201

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time		Initial Sample Result (I)	C (I)	Serial Dilution Result (S)	C (S)	% Diff.	Q	M	
Calcium	11/29/2010	16:10	22300.		21950		2		P	
Chromium	11/29/2010	16:10	1210.		1295		7		P	
Cobalt	11/29/2010	16:10	84.4		89.5		6		P	
Magnesium	11/29/2010	16:10	19700.		20500		4		P	
Nickel	11/29/2010	16:10	160.		168.5		5		P	
Thallium	11/29/2010	16:10	7.15		20.7		190		P	*FAIL*

CT LABORATORIES
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ICP SERIAL DILUTION

Sample Description

DLASS-010-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID SDG No.: 82399

Concentration Units: ug/L

LIMS Run #: 72202 Sample No.: 878381 Parent Sample No.: 869552

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Initial Sample Result (I)	C (I)	Serial Dilution Result (S)	C (S)	% Diff.	Q	M
Potassium	12/03/2010 16:59	35.8	U	39.35	U	10		P
Sodium	12/03/2010 16:59	1.68	U	1.82	U	8		P

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ICP SERIAL DILUTION

Sample Description

DLASS-002-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID SDG No.: 82399

Concentration Units: mg/L

LIMS Run #: 72204 Sample No.: 878403 Parent Sample No.: 870189

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Initial Sample Result (I)	C (I)	Serial Dilution Result (S)	C (S)	% Diff.	Q	M
Potassium	12/03/2010 15:42	37.2	U	35.25	U	5		P
Sodium	12/03/2010 15:42	1.88	U	1.735	U	8		P

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ICP SERIAL DILUTION

Sample Description

DLASS-010-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID SDG No.: 82399

Concentration Units: ug/L

LIMS Run #: 72201 Sample No.: 878900 Parent Sample No.: 869552

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Initial Sample Result (I)	C (I)	Serial Dilution Result (S)	C (S)	% Diff.	Q	M	
Aluminum	12/03/2010 22:43	251000.		229000		9		P	
Antimony	12/03/2010 22:43	27.7		27.75		0		P	
Arsenic	12/03/2010 22:43	220.		174.5		21		P	*FAIL*
Barium	12/03/2010 22:43	1890.		1635		13		P	*FAIL*
Beryllium	12/03/2010 22:43	13.2		12.5		5		P	
Cadmium	12/03/2010 22:43	5.00		3.65		27		P	*FAIL*
Calcium	12/03/2010 22:43	94400.		87000		8		P	
Chromium	12/03/2010 22:43	1150.		1025		11		P	*FAIL*
Cobalt	12/03/2010 22:43	193.		188		3		P	
Copper	12/03/2010 22:43	261.		248.5		5		P	
Iron	12/03/2010 22:43	443000.		472000		7		P	
Lead	12/03/2010 22:43	380.		368.5		3		P	
Magnesium	12/03/2010 22:43	49200.		50500		3		P	
Nickel	12/03/2010 22:43	411.		401.5		2		P	
Selenium	12/03/2010 22:43	15.6		16.65		7		P	
Silver	12/03/2010 22:43	.492		2.22		351		P	*FAIL*
Thallium	12/03/2010 22:43	15.2		3.37		78		P	*FAIL*
Vanadium	12/03/2010 22:43	450.		423.5		6		P	
Zinc	12/03/2010 22:43	1230.		1235		0		P	

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ICP SERIAL DILUTION

Sample Description

DLASS-002-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID SDG No.: 82399

Concentration Units: ug/L

LIMS Run #: 72203 Sample No.: 879412 Parent Sample No.: 870189

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Initial Sample Result (I)	C (I)	Serial Dilution Result (S)	C (S)	% Diff.	Q	M	
Aluminum	12/03/2010 19:18	214000.		223000		4		P	
Antimony	12/03/2010 19:18	1950.		2130		9		P	
Arsenic	12/03/2010 19:18	199.		265.5		33		P	*FAIL*
Barium	12/03/2010 19:18	2370.		2315		2		P	
Beryllium	12/03/2010 19:18	11.1		11.55		4		P	
Cadmium	12/03/2010 19:18	5.77		3.485		40		P	*FAIL*
Calcium	12/03/2010 19:18	73400.		74500		1		P	
Chromium	12/03/2010 19:18	2150.		2070		4		P	
Cobalt	12/03/2010 19:18	178.		198.5		12		P	*FAIL*
Copper	12/03/2010 19:18	203.		236		16		P	*FAIL*
Lead	12/03/2010 19:18	954.		1370		44		P	*FAIL*
Nickel	12/03/2010 19:18	252.		282.5		12		P	*FAIL*
Selenium	12/03/2010 19:18	33.6		0	U	0		P	
Silver	12/03/2010 19:18	2.88		0.405		86		P	*FAIL*
Vanadium	12/03/2010 19:18	421.		451		7		P	
Zinc	12/03/2010 19:18	1150.		1330		16		P	*FAIL*

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ICP SERIAL DILUTION

Sample Description

DLASS-002-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID SDG No.: 82399

Concentration Units: ug/L

LIMS Run #: 72203 Sample No.: 881765 Parent Sample No.: 870189

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time		Initial Sample Result (I)	C (I)	Serial Dilution Result (S)	C (S)	% Diff.	Q	M	
Iron	12/09/2010	18:50	585000.		575000		2		P	
Magnesium	12/09/2010	18:50	45000.		40250		11		P	*FAIL*
Manganese	12/09/2010	18:50	29600.		32650		10		P	
Thallium	12/09/2010	18:50	13.6		0	U	0		P	

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ICP SERIAL DILUTION

Sample Description

DLASS-010-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID SDG No.: 82399

Concentration Units: ug/L

LIMS Run #: 72201 Sample No.: 882029 Parent Sample No.: 869552

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Initial Sample Result (I)	C (I)	Serial Dilution Result (S)	C (S)	% Diff.	Q	M
Manganese	12/09/2010 21:48	17700.		19550		10		P

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CVAA SERIAL DILUTION

Sample Description

DLASS-014-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID SDG No.: 82399

Concentration Units: ug/L

LIMS Run #: 72018 Sample No.: 875793 Parent Sample No.: 870201

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Initial Sample Result (I)	C (I)	Serial Dilution Result (S)	C (S)	% Diff.	Q	M	
Mercury	11/24/2010 09:48	0.94		0.8		15		CV	*FAIL*

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CVAA SERIAL DILUTION

Sample Description

DLASS-010-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID SDG No.: 82399

Concentration Units: ug/L

LIMS Run #: 72326 Sample No.: 879515 Parent Sample No.: 869552

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Initial Sample Result (I)	C (I)	Serial Dilution Result (S)	C (S)	% Diff.	Q	M
Mercury	12/08/2010 13:39	0.78		0.7		10		CV

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CVAA SERIAL DILUTION

Sample Description

DLASS-002-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID SDG No.: 82399

Concentration Units: ug/L

LIMS Run #: 72327 Sample No.: 879539 Parent Sample No.: 870189

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Initial Sample Result (I)	C (I)	Serial Dilution Result (S)	C (S)	% Diff.	Q	M
Mercury	12/08/2010 14:07	2.47		2.6		5		CV

CT LABORATORIES
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METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

ICP ID Number: TJA SDG No.: 82399

Matrix: SOLID

Analyte	Wavelength (nm)	Background	CRDL (ug/L)	MDL (mg/k)	M
Aluminum	167.0			0.04	P
Antimony	217.5			0.08	P
Arsenic	193.7			0.13	P
Barium	455.4			0.008	P
Beryllium	313.041			0.004	P
Cadmium	226.502			0.006	P
Calcium	393.3			0.06	P
Chromium	267.716			0.019	P
Cobalt	228.616			0.015	P
Copper	324.753			0.06	P
Iron	259.9			0.3	P
Lead	220.35			0.04	P
Magnesium	279.5			0.12	P
Manganese	257.61			0.016	P
Nickel	231.604			0.018	P
Potassium	766.491			11	P
Selenium	196.02			0.07	P
Silver	328.068			0.017	P
Sodium	330.232			4	P
Thallium	190.864			0.04	P
Vanadium	292.402			0.011	P
Zinc	213.856			0.04	P

CT LABORATORIES
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10

METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Matrix: SOLID

Analyte	Wavelength (nm)	Background	CRDL (ug/L)	MDL (mg/k)	M
Mercury	253.7			0.0024	CV

CT LABORATORIES
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11A

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

ICP ID Number: TA ICAP6000 / ICAP6500 SDG No.: 82399

Analyte	Wavelength (nm)	Interelement Correction Factors for:			
		Al	*Ca*	*Fe*	*Si (*Mg)*
Aluminum/1	167.079			0.000627 / 0.000627	
Aluminum/2	309.271				
Aluminum/3	396.152				
Antimony/1	206.833			0.000062 / -0.000014	
Antimony/2	217.581			-0.000121/-0.000060	
Arsenic/1	189.042			0.000084 / -0.000017	
Arsenic/2	193.759			0.000537 / -0.000283	
Barium/1	455.403			0.000005 / 0.000010	
Barium/2	493.409			0.000001 / 0.000007	
Beryllium/1	234.861			0.000198 / 0.000135	
Beryllium/2	313.042			0.000000 / 0.000000	
Cadmium/1	226.502			0.000104 / 0.000100	
Cadmium/2	228.802			0.000003 / 0.000000	
Calcium/1	317.933				
Calcium/2	393.366				
Calcium/3	396.847				
Chromium/1	205.552			0.000018 / 0.000003	
Chromium/2	267.716			0.000009 / 0.000010	
Cobalt/1	228.616			0.000003 / 0.000015	
Cobalt/2	238.892			-0.001663/-0.003056	
Copper/1	224.700			0.000514 / 0.000677	
Copper/2	327.396			-0.000120 / 0.000022	
Iron/1	234.349				
Iron/2	239.562				
Iron/3	259.940				

CT LABORATORIES
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11A

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

ICP ID Number: TA ICAP6000 / ICAP6500 SDG No.: 82399

Analyte	Wavelength (nm)	Interelement Correction Factors for:			
		Al	*Ca*	*Fe*	*Si (*Mg)*
Lead/1	216.999	0.001934 / 0.002195			
Lead/2	220.353			-0.000091/-0.000043	0.000022 / 0.000022
Magnesium/1	279.079				
Magnesium/2	279.553				
Magnesium/3	280.270				
Manganese/1	257.610			0.000028 / -0.000045	
Manganese/2	259.373				0.001354*/0.001290*
Molybdenum/1	202.030			-0.000008/-0.000005	
Molybdenum/2	204.598				
Nickel/1	221.647		-0.000025/-0.000005		
Nickel/2	231.604			0.000061 / 0.000019	
Selenium/1	196.090			-0.000095/-0.000122	
Selenium/2	206.279			0.000396 / 0.000000	
Silver/1	328.068		-0.000003/-0.000002		
Silver/2	338.289		0.000129 / 0.000219		
Thallium/1	190.856		0.000003 / -0.000056		
Thallium/2	351.924		-0.000272/-0.000272		
Tin (high [ ] li	189.989				
Tin (low [ ] li	189.989				
Vanadium/1	292.402			0.000043 / 0.000043	
Vanadium/2	292.402			0.000011 / 0.000010	
Zinc/1	206.200				
Zinc/2	213.856			0.000114 / 0.000128	

CT LABORATORIES
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11B

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

ICP ID Number: TA ICAP6000 / ICAP6500 SDG No.: 82399

Analyte	Wavelength (nm)	Interelement Correction Factors for:			
		Al	*Ca*	*Fe*	*Si (*Mg)*
Aluminum/4	308.215				
Calcium/1	317.933				
Iron/1	234.349				
Magnesium/4	285.213				
Potassium	766.490			-0.000546/-0.000634	
Sodium/1	330.237			--------- / 0.020000	
Sodium/2	589.592			0.000162 / 0.000385	

ICP LINEAR RANGES (QUARTERLY)

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

ICP ID Number: TJA SDG No.: 82399

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Aluminum	15.00	1000000	P
Antimony	15.00	10000	P
Arsenic	15.00	10000	P
Barium	15.00	10000	P
Beryllium	15.00	10000	P
Boron	15.00	10000	P
Cadmium	15.00	10000	P
Calcium	15.00	1000000	P
Chromium	15.00	100000	P
Cobalt	15.00	100000	P
Copper	15.00	100000	P
Iron	15.00	1000000	P
Lead	15.00	100000	P
Lithium	15.00	10000	P
Magnesium	15.00	1000000	P
Manganese	15.00	100000	P
Molybdenum	15.00	10000	P
Nickel	15.00	10000	P
Potassium	15.00	200000	P
Selenium	15.00	10000	P
Silicon	15.00	5000	P
Silver	15.00	1000	P
Sodium	15.00	200000	P
Strontium	15.00	10000	P
Thallium	15.00	10000	P
Tin	15.00	10000	P
Titanium	15.00	10000	P
Tungsten	15.00	10000	P
Vanadium	15.00	100000	P
Zinc	15.00	100000	P

CT LABORATORIES
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PREPARATION LOG

Lab Name: CT Laboratories Contrac USACE - LOUISVILLE-RAVENNA

Method: EPA 3050 SDG No.: 82399

Preparation Batch #:: 35475

CTL Sample No.	Preparation Date/Time		Weight (gram)	Volume (mL)
870200	11/18/2010	17:30	2.0	50
870201	11/18/2010	17:30	2.0	50
870202	11/18/2010	17:30	2.0	50
870203	11/18/2010	17:30	2.0	50
870204	11/18/2010	17:30	2.0	50
870207	11/18/2010	17:30	2.0	50
871184	11/18/2010	17:30	2.0	50
871186	11/18/2010	17:30	2.0	50
871187	11/18/2010	17:30	2.0	50
871188	11/18/2010	17:30	2.0	50
871189	11/18/2010	17:30	2.0	50
871190	11/18/2010	17:30	2.0	50
871191	11/18/2010	17:30	2.0	50
871192	11/18/2010	17:30	2.0	50
871193	11/18/2010	17:30	2.0	50
871194	11/18/2010	17:30	2.0	50
871195	11/18/2010	17:30	2.0	50
871196	11/18/2010	17:30	2.0	50
871197	11/18/2010	17:30	2.0	50
871198	11/18/2010	17:30	2.0	50
873481	11/18/2010	17:30	2.0	50
873483	11/18/2010	17:30	2.0	50
873484	11/18/2010	17:30	2.0	50

CT LABORATORIES
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PREPARATION LOG

Lab Name: CT Laboratories Contrac USACE - LOUISVILLE-RAVENNA

Method: EPA 7471A SDG No.: 82399

Preparation Batch #:: 35531

CTL Sample No.	Preparation Date/Time		Weight (gram)	Volume (mL)
870200	11/23/2010	15:30	0.60	25
870201	11/23/2010	15:30	0.60	25
870202	11/23/2010	15:30	0.57	25
870203	11/23/2010	15:30	0.57	25
870204	11/23/2010	15:30	0.56	25
870207	11/23/2010	15:30	0.57	25
871184	11/23/2010	15:30	0.55	25
871186	11/23/2010	15:30	0.55	25
871187	11/23/2010	15:30	0.57	25
871188	11/23/2010	15:30	0.58	25
871189	11/23/2010	15:30	0.58	25
871190	11/23/2010	15:30	0.55	25
871191	11/23/2010	15:30	0.59	25
871192	11/23/2010	15:30	0.56	25
871193	11/23/2010	15:30	0.55	25
871194	11/23/2010	15:30	0.55	25
871195	11/23/2010	15:30	0.57	25
871196	11/23/2010	15:30	0.59	25
871197	11/23/2010	15:30	0.57	25
871198	11/23/2010	15:30	0.57	25
874584	11/23/2010	15:30	0.59	25
874585	11/23/2010	15:30	0.58	25
874586	11/23/2010	15:30	0.59	25

CT LABORATORIES
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PREPARATION LOG

Lab Name: CT Laboratories Contrac USACE - LOUISVILLE-RAVENNA

Method: EPA 3050 SDG No.: 82399

Preparation Batch #:: 35623

CTL Sample No.	Preparation Date/Time		Weight (gram)	Volume (mL)
869552	12/02/2010	16:30	2.0	50
869553	12/02/2010	16:30	2.0	50
869554	12/02/2010	16:30	2.0	50
869555	12/02/2010	16:30	2.0	50
869556	12/02/2010	16:30	2.0	50
877404	12/02/2010	16:30	2.0	50
877405	12/02/2010	16:30	2.0	50
877406	12/02/2010	16:30	2.0	50

CT LABORATORIES
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PREPARATION LOG

Lab Name: CT Laboratories Contrac USACE - LOUISVILLE-RAVENNA

Method: EPA 3050 SDG No.: 82399

Preparation Batch #:: 35624

CTL Sample No.	Preparation Date/Time		Weight (gram)	Volume (mL)
870188	12/02/2010	16:30	2.0	50
870189	12/02/2010	16:30	2.0	50
870190	12/02/2010	16:30	2.0	50
870191	12/02/2010	16:30	2.0	50
870192	12/02/2010	16:30	2.0	50
870193	12/02/2010	16:30	2.0	50
870194	12/02/2010	16:30	2.0	50
870195	12/02/2010	16:30	2.0	50
870196	12/02/2010	16:30	2.0	50
870197	12/02/2010	16:30	2.0	50
870208	12/02/2010	16:30	2.0	50
870209	12/02/2010	16:30	2.0	50
870210	12/02/2010	16:30	2.0	50
870211	12/02/2010	16:30	2.0	50
870212	12/02/2010	16:30	2.0	50
870213	12/02/2010	16:30	2.0	50
870214	12/02/2010	16:30	2.0	50
870215	12/02/2010	16:30	2.0	50
870216	12/02/2010	16:30	2.0	50
877409	12/02/2010	16:30	2.0	50
877410	12/02/2010	16:30	2.0	50
877411	12/02/2010	16:30	2.0	50

CT LABORATORIES
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PREPARATION LOG

Lab Name: CT Laboratories Contrac USACE - LOUISVILLE-RAVENNA

Method: EPA 7471A SDG No.: 82399

Preparation Batch #:: 35686

CTL Sample No.	Preparation Date/Time		Weight (gram)	Volume (mL)
869552	12/07/2010	15:30	0.57	25
869553	12/07/2010	15:30	0.55	25
869554	12/07/2010	15:30	0.57	25
869555	12/07/2010	15:30	0.57	25
869556	12/07/2010	15:30	0.57	25
878268	12/07/2010	15:30	0.55	25
878269	12/07/2010	15:30	0.55	25
878270	12/07/2010	15:30	0.60	25

CT LABORATORIES
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PREPARATION LOG

Lab Name: CT Laboratories Contrac USACE - LOUISVILLE-RAVENNA

Method: EPA 7471A SDG No.: 82399

Preparation Batch #:: 35687

CTL Sample No.	Preparation Date/Time		Weight (gram)	Volume (mL)
870188	12/07/2010	15:30	0.56	25
870189	12/07/2010	15:30	0.59	25
870190	12/07/2010	15:30	0.55	25
870191	12/07/2010	15:30	0.56	25
870192	12/07/2010	15:30	0.56	25
870193	12/07/2010	15:30	0.58	25
870194	12/07/2010	15:30	0.55	25
870195	12/07/2010	15:30	0.56	25
870196	12/07/2010	15:30	0.56	25
870197	12/07/2010	15:30	0.56	25
870208	12/07/2010	15:30	0.57	25
870209	12/07/2010	15:30	0.58	25
870210	12/07/2010	15:30	0.57	25
870211	12/07/2010	15:30	0.58	25
870212	12/07/2010	15:30	0.57	25
870213	12/07/2010	15:30	0.57	25
870214	12/07/2010	15:30	0.59	25
870215	12/07/2010	15:30	0.59	25
870216	12/07/2010	15:30	0.59	25
878274	12/07/2010	15:30	0.56	25
878275	12/07/2010	15:30	0.55	25
878276	12/07/2010	15:30	0.58	25

CT LABORATORIES
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ANALYSIS RUN LOG

Lab Name: CT Laboratories | Contract: USACE - LOUISVILLE-RAVENNA

Lab Code: CTL | SDG No.: 82399

Instrument ID Number: TJA | Method Number: P

Start & End Date: 11/19/2010 to 12/03/2010 | Analytical Run #: 71910

Sample Number	Analysis or QC Type	DF	Analysis Date/ Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Mo	Li	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	W	V	Zn
874986	ICV	1.00	11/19 10:31	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
874979	ICB	1.00	11/19 10:36	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
874988	MRL	1.00	11/19 10:47	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
874989	ICSA	1.00	11/19 10:52	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
874990	ICSAB	1.00	11/19 10:59	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
874993	CCV	1.00	11/19 18:33	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
875079	CCV	1.00	11/19 18:39	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
875080	CCB	1.00	11/19 18:49	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
873323	LCSS	1.00	11/19 19:46	X	X	X	X	X		X				X	X	X		X						X		X			X			X	X
875077	CCV	1.00	11/19 19:52	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
875081	CCV	1.00	11/19 19:57	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
875082	CCB	1.00	11/19 20:07	X	X	X	X	X		X		X	X	X	X	X		X				X		X		X			X			X	X
873322	MBS	1.00	11/19 20:13	X	X	X	X	X		X		X	X	X	X	X		X				X		X		X						X	X
870200	Initial	2.00	11/19 20:18	X	X	X	X	X		X				X	X	X		X						X		X						X	X
870201	Initial	2.00	11/19 20:24	X	X	X	X	X		X				X	X	X		X						X		X						X	X
875083	L	5	11/19 20:30	X	X	X	X	X		X				X	X	X		X						X		X						X	X
873481	DUP	2.00	11/19 20:36	X	X	X	X	X		X				X	X	X		X						X		X						X	X
873483	MSS	2.00	11/19 20:41	X	X	X	X	X		X					X	X		X						X		X			X			X	X
873483	MSS	2.00	11/19 20:41											X																			
873484	MSDS	2.00	11/19 20:47	X	X	X	X	X		X					X	X		X						X		X			X			X	X
873484	MSDS	2.00	11/19 20:47											X																			
875084	PDSS	1.00	11/19 20:53	X	X	X	X	X		X					X	X		X						X		X			X			X	X
877665	PDSS	1.00	11/19 20:53											X																			
870202	Initial	2.00	11/19 20:59	X	X	X	X	X		X				X	X	X		X						X		X						X	X
870203	Initial	2.00	11/19 21:04	X	X	X	X	X		X				X	X	X		X						X		X						X	X
874994	CCV	1.00	11/19 21:10	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
875746	CCV	1.00	11/19 21:15	X	X	X	X	X		X		X	X	X	X	X		X				X		X		X			X			X	X
875747	CCB	1.00	11/19 21:26	X	X	X	X	X		X		X	X	X	X	X		X				X		X		X			X			X	X
870204	Initial	2.00	11/19 21:31	X	X	X	X	X		X	X			X	X	X	X	X								X						X	X

CT LABORATORIES
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ANALYSIS RUN LOG

Lab Name: CT Laboratories
Contract: USACE - LOUISVILLE-RAVENNA

Lab Code: CTL
SDG No.: 82399

Instrument ID Number: TJA
Method Number: P

Start & End Date: 11/19/2010 to 12/03/2010
Analytical Run #: 71910

Sample Number	Analysis or QC Type	DF	Analysis Date/ Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Mo	Li	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	W	V	Zn
870207	Initial	2.00	11/19 21:37	X	X	X	X	X		X	X			X	X	X	X	X								X						X	X
871184	Initial	2.00	11/19 21:43	X	X	X	X	X		X				X	X	X	X	X								X						X	X
871186	Initial	2.00	11/19 21:49	X	X	X	X	X		X	X			X	X	X	X	X						X		X						X	X
871187	Initial	2.00	11/19 21:54	X	X	X	X	X		X	X			X	X	X	X	X								X						X	X
871188	Initial	2.00	11/19 22:00	X	X	X	X	X		X				X	X	X	X	X								X						X	X
871189	Initial	2.00	11/19 22:07	X	X	X	X	X		X	X			X	X	X	X	X						X		X						X	X
871190	Initial	2.00	11/19 22:13	X	X	X	X	X		X	X			X	X	X	X	X								X						X	X
871191	Initial	2.00	11/19 22:18	X	X	X	X	X		X				X	X	X	X	X						X		X						X	X
871192	Initial	2.00	11/19 22:25	X	X	X	X	X		X	X			X	X	X	X	X								X						X	X
874996	CCV	1.00	11/19 22:30	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
875748	CCV	1.00	11/19 22:36	X	X	X	X	X		X		X	X	X	X	X		X				X		X		X			X			X	X
875749	CCB	1.00	11/19 22:46	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
871193	Initial	2.00	11/19 22:52	X		X	X	X		X	X				X		X									X						X	X
871194	Initial	2.00	11/19 22:58	X		X	X	X		X	X				X		X									X						X	X
871195	Initial	2.00	11/19 23:03	X		X	X	X		X	X				X		X							X		X						X	X
871196	Initial	2.00	11/19 23:09	X		X	X	X		X	X				X		X							X		X						X	X
871197	Initial	2.00	11/19 23:15	X	X	X	X	X		X	X				X		X									X			X			X	X
871198	Initial	2.00	11/19 23:20	X		X	X	X		X					X		X									X						X	X
875752	CCV	1.00	11/19 23:49	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
875750	CCV	1.00	11/19 23:55	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
875751	CCB	1.00	11/20 00:05	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
877034	ICV	1.00	11/29 15:08	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
877035	ICB	1.00	11/29 15:19	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
877036	MRL	1.00	11/29 15:25	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
877037	ICSA	1.00	11/29 15:30	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
877038	ICSAB	1.00	11/29 15:36	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
873323	LCSS	1.00	11/29 15:47								X	X	X				X					X											

CT LABORATORIES
delivering more than data from your environmental analyses

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ANALYSIS RUN LOG

Lab Name: CT Laboratories | Contract: USACE - LOUISVILLE-RAVENNA

Lab Code: CTL | SDG No.: 82399

Instrument ID Number: TJA | Method Number: P

Start & End Date: 11/19/2010 to 12/03/2010 | Analytical Run #: 71910

Sample Number	Analysis or QC Type	DF	Analysis Date/ Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Mo	Li	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	W	V	Zn
873322	MBS	1.00	11/29 15:53								X						X												X				
870200	Re-Analysis	5.00	11/29 15:59								X	X	X				X					X							X				
870201	Re-Analysis	5.00	11/29 16:04								X	X	X				X					X							X				
877657	L	5	11/29 16:10								X	X	X				X					X							X				
873481	DUP	5.00	11/29 16:16								X	X	X				X					X							X				
873483	MSS	5.00	11/29 16:21								X	X	X				X					X											
873484	MSDS	5.00	11/29 16:27								X	X	X				X					X											
876019	PDSS	1.00	11/29 16:32								X	X	X				X					X											
877055	CCV	1.00	11/29 16:39	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X					X			X	X
877041	CCV	1.00	11/29 16:44	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
877042	CCB	1.00	11/29 16:55	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
870202	Re-Analysis	5.00	11/29 17:00								X	X	X				X					X							X				
870203	Re-Analysis	5.00	11/29 17:06								X	X	X				X					X							X				
870204	Re-Analysis	5.00	11/29 17:12									X	X									X							X				
870207	Re-Analysis	1.00	11/29 17:17										X									X											
870207	Re-Analysis	5.00	11/29 17:17									X																	X				
871184	Re-Analysis	5.00	11/29 17:23								X	X	X									X							X				
871186	Re-Analysis	5.00	11/29 17:29									X	X									X							X				
871187	Re-Analysis	5.00	11/29 17:35									X	X									X							X				
871188	Re-Analysis	5.00	11/29 17:40									X	X									X							X				
871189	Re-Analysis	5.00	11/29 17:46									X	X									X							X				
871190	Re-Analysis	5.00	11/29 17:52									X	X									X							X				
877053	CCV	1.00	11/29 17:58	X	X	X		X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
877043	CCV	1.00	11/29 18:03		X	X		X					X			X	X	X				X		X		X			X			X	X
877044	CCB	1.00	11/29 18:14	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
871191	Re-Analysis	5.00	11/29 18:19									X	X									X							X				
871192	Re-Analysis	5.00	11/29 18:25									X	X									X							X				
871193	Re-Analysis	5.00	11/29 18:31		X							X	X	X		X		X				X							X				
871194	Re-Analysis	5.00	11/29 18:37		X							X	X	X		X		X				X							X				

CT LABORATORIES
delivering more than data from your environmental analyses

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ANALYSIS RUN LOG

Lab Name: CT Laboratories
Contract: USACE - LOUISVILLE-RAVENNA

Lab Code: CTL
SDG No.: 82399

Instrument ID Number: TJA
Method Number: P

Start & End Date: 11/19/2010 to 12/03/2010
Analytical Run #: 71910

Sample Number	Analysis or QC Type	DF	Analysis Date/ Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Mo	Li	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	W	V	Zn
871195	Re-Analysis	5.00	11/29 18:42		X							X	X	X		X		X				X							X				
871196	Re-Analysis	5.00	11/29 18:48		X							X	X	X		X		X				X							X				
871197	Re-Analysis	5.00	11/29 18:54									X	X	X		X		X				X											
871198	Re-Analysis	5.00	11/29 18:59		X						X	X	X	X		X		X				X							X				
877051	CCV	1.00	11/29 19:16	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
877045	CCV	1.00	11/29 19:22	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
877046	CCB	1.00	11/29 19:32	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
878859	ICV	1.00	12/03 14:04								X													X									
878860	ICB	1.00	12/03 14:15								X													X									
878861	MRL	1.00	12/03 14:20								X													X									
878862	ICSA	1.00	12/03 14:26	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
878863	ICSAB	1.00	12/03 14:32	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
870204	Re-Analysis	2.00	12/03 14:37																					X									
870207	Re-Analysis	2.00	12/03 14:43																					X									
871184	Re-Analysis	2.00	12/03 14:49																					X									
871187	Re-Analysis	2.00	12/03 15:00																					X									
871188	Re-Analysis	10.00	12/03 15:06								X													X									
871190	Re-Analysis	2.00	12/03 15:17																					X									
871191	Re-Analysis	10.00	12/03 15:23								X																						
871192	Re-Analysis	2.00	12/03 15:29																					X									
878878	CCV	1.00	12/03 15:35								X													X									
878864	CCV	1.00	12/03 15:40								X													X									
878865	CCB	1.00	12/03 15:50								X													X									
871193	Re-Analysis	2.00	12/03 15:56																					X									
871194	Re-Analysis	2.00	12/03 16:02																					X									
871197	Re-Analysis	2.00	12/03 16:19																					X									
871198	Re-Analysis	2.00	12/03 16:24																					X									
878866	CCV	1.00	12/03 16:58								X													X									

CT LABORATORIES
delivering more than data from your environmental analyses

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ANALYSIS RUN LOG

Lab Name: CT Laboratories

Contract: USACE - LOUISVILLE-RAVENNA

Lab Code: CTL

SDG No.: 82399

Instrument ID Number: TJA

Method Number: P

Start & End Date: 11/19/2010 to 12/03/2010

Analytical Run #: 71910

Sample Number	Analysis or QC Type	DF	Analysis Date/ Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Mo	Li	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	W	V	Zn
878868	CCV	1.00	12/03 16:58								X													X								
878867	CCB	1.00	12/03 17:08								X													X								

CT LABORATORIES
delivering more than data from your environmental analyses

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ANALYSIS RUN LOG

Lab Name: CT Laboratories
Contract: USACE - LOUISVILLE-RAVENNA

Lab Code: CTL
SDG No.: 82399

Instrument ID Number: TJA
Method Number: P

Start & End Date: 11/22/2010 to 11/22/2010
Analytical Run #: 71911

Sample Number	Analysis or QC Type	DF	Analysis Date/ Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Mo	Li	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	W	V	Zn
874795	ICV	1.00	11/22 07:28																				X				X					
874796	ICB	1.00	11/22 07:30																				X				X					
874797	MRL	1.00	11/22 07:33																				X				X					
874798	ICSA	1.00	11/22 07:35	X							X				X		X						X				X					
874799	ICSAB	1.00	11/22 07:38	X							X				X		X						X				X					
873323	LCSS	1.00	11/22 07:41																				X				X					
873322	MBS	1.00	11/22 07:43																				X				X					
870200	Initial	1.00	11/22 07:46																				X				X					
870201	Initial	1.00	11/22 07:48																				X				X					
874800	L	5	11/22 07:51																				X				X					
873481	DUP	1.00	11/22 07:53																				X				X					
873483	MSS	1.00	11/22 07:55																				X				X					
873484	MSDS	1.00	11/22 07:58																				X				X					
874801	PDSS	1.00	11/22 08:00																				X				X					
870202	Initial	1.00	11/22 08:03																				X				X					
874802	CCV	1.00	11/22 08:05																				X				X					
874803	CCB	1.00	11/22 08:08																				X				X					
870203	Initial	1.00	11/22 08:10																				X				X					
870204	Initial	1.00	11/22 08:13																				X				X					
870207	Initial	1.00	11/22 08:15																				X				X					
871184	Initial	1.00	11/22 08:18																				X				X					
871186	Initial	1.00	11/22 08:20																				X				X					
871187	Initial	1.00	11/22 08:23																				X				X					
871188	Initial	1.00	11/22 08:25																				X				X					
871189	Initial	1.00	11/22 08:28																				X				X					
871190	Initial	1.00	11/22 08:31																				X				X					
871191	Initial	1.00	11/22 08:33																				X				X					
874804	CCV	1.00	11/22 08:36																				X				X					
874805	CCB	1.00	11/22 08:38																				X				X					

CT LABORATORIES
delivering more than data from your environmental analyses

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ANALYSIS RUN LOG

Lab Name: CT Laboratories
Contract: USACE - LOUISVILLE-RAVENNA

Lab Code: CTL
SDG No.: 82399

Instrument ID Number: TJA
Method Number: P

Start & End Date: 11/22/2010 to 11/22/2010
Analytical Run #: 71911

Sample Number	Analysis or QC Type	DF	Analysis Date/ Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Mo	Li	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	W	V	Zn
871192	Initial	1.00	11/22 08:41																				X				X					
871193	Initial	1.00	11/22 08:43																				X				X					
871194	Initial	1.00	11/22 08:46																				X				X					
871195	Initial	1.00	11/22 08:48																				X				X					
871196	Initial	1.00	11/22 08:51																				X				X					
871197	Initial	1.00	11/22 08:53																				X				X					
871198	Initial	1.00	11/22 08:56																				X				X					
874806	CCV	1.00	11/22 09:06																				X				X					
874807	CCB	1.00	11/22 09:09																				X				X					

CT LABORATORIES
delivering more than data from your environmental analyses

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ANALYSIS RUN LOG

Lab Name: CT Laboratories
Contract: USACE - LOUISVILLE-RAVENNA

Lab Code: CTL
SDG No.: 82399

Instrument ID Number: TJA
Method Number: P

Start & End Date: 12/03/2010 to 12/09/2010
Analytical Run #: 72201

Sample Number	Analysis or QC Type	DF	Analysis Date/ Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Mo	Li	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	W	V	Zn
878880	ICV	1.00	12/03 14:04	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
878881	ICB	1.00	12/03 14:15	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
878882	MRL	1.00	12/03 14:20	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
878883	ICSA	1.00	12/03 14:26	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
878884	ICSAB	1.00	12/03 14:32	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
878885	CCV	1.00	12/03 22:04	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
878895	CCV	1.00	12/03 22:10	X	X	X	X	X		X	X	X	X	X		X	X	X				X		X		X			X			X	X
878896	CCB	1.00	12/03 22:20	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
877403	LCSS	1.00	12/03 22:26	X	X	X	X	X			X		X			X						X		X		X						X	X
877402	MBS	1.00	12/03 22:32	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
869552	Initial	2.00	12/03 22:37	X	X	X	X	X		X	X	X	X	X	X	X	X					X		X		X						X	X
878900	L	5	12/03 22:43	X	X	X	X	X		X	X	X	X	X	X	X	X					X		X		X			X			X	X
877404	DUP	2.00	12/03 22:48	X	X	X	X	X		X	X	X	X	X	X	X	X					X		X		X						X	X
877405	MSS	2.00	12/03 22:54	X	X	X	X	X		X	X	X	X	X	X	X	X					X		X		X			X			X	X
877406	MSDS	2.00	12/03 23:00	X	X	X	X	X		X	X	X	X	X	X	X	X					X		X		X			X			X	X
878901	PDSS	1.00	12/03 23:05	X	X	X	X	X		X	X	X	X	X	X	X	X					X		X		X						X	X
869553	Initial	2.00	12/03 23:11	X	X	X	X	X		X	X	X	X	X	X	X	X					X		X		X						X	X
869554	Initial	2.00	12/03 23:16	X	X	X	X	X		X	X	X	X	X	X	X	X					X		X		X						X	X
878887	CCV	1.00	12/03 23:22	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
878902	CCV	1.00	12/03 23:27	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
878903	CCB	1.00	12/03 23:38	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
869555	Initial	2.00	12/03 23:43	X	X	X	X	X		X	X	X	X	X	X	X						X		X								X	X
869556	Initial	2.00	12/03 23:49	X	X	X	X	X		X	X	X	X	X	X	X						X		X		X						X	X
878889	CCV	1.00	12/04 00:38	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
878904	CCV	1.00	12/04 00:43	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
878905	CCB	1.00	12/04 00:54	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
881159	ICV	1.00	12/09 15:34	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X

CT LABORATORIES
delivering more than data from your environmental analyses

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ANALYSIS RUN LOG

Lab Name: CT Laboratories | Contract: USACE - LOUISVILLE-RAVENNA

Lab Code: CTL | SDG No.: 82399

Instrument ID Number: TJA | Method Number: P

Start & End Date: 12/03/2010 to 12/09/2010 | Analytical Run #: 72201

Sample Number	Analysis or QC Type	DF	Analysis Date/ Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Mo	Li	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	W	V	Zn
881160	ICB	1.00	12/09 15:45		X	X	X	X		X	X		X	X	X	X	X	X				X		X		X			X			X	X
881161	MRL	1.00	12/09 15:50	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
881162	ICSA	1.00	12/09 15:55	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
881163	ICSAB	1.00	12/09 16:01	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
881821	CCV	1.00	12/09 20:49	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
881825	CCV	1.00	12/09 20:54	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
881826	CCB	1.00	12/09 21:04		X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X				X
877403	LCSS	1.00	12/09 21:32							X		X		X	X		X	X											X				
869552	Re-Analysis	2.00	12/09 21:42															X											X				
882029	L	5	12/09 21:48															X															
877404	DUP	2.00	12/09 21:53															X											X				
877405	MSS	2.00	12/09 21:59															X															
881835	CCV	1.00	12/09 22:04	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
881828	CCV	1.00	12/09 22:09	X		X		X		X	X	X	X	X	X	X	X	X						X		X			X			X	X
881829	CCB	1.00	12/09 22:20		X	X		X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
877406	MSDS	2.00	12/09 22:25															X															
882030	PDSS	1.00	12/09 22:31															X											X				
869553	Re-Analysis	2.00	12/09 22:36															X											X				
869554	Re-Analysis	2.00	12/09 22:42															X											X				
869555	Re-Analysis	2.00	12/09 22:47														X	X								X			X				
869556	Re-Analysis	2.00	12/09 22:52														X	X											X				
881833	CCV	1.00	12/09 23:19	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
881831	CCV	1.00	12/09 23:24	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
881832	CCB	1.00	12/09 23:35		X	X	X	X		X	X		X	X	X	X	X	X				X				X			X				X

CT LABORATORIES
delivering more than data from your environmental analyses

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ANALYSIS RUN LOG

Lab Name: CT Laboratories | Contract: USACE - LOUISVILLE-RAVENNA

Lab Code: CTL | SDG No.: 82399

Instrument ID Number: TJA | Method Number: P

Start & End Date: 12/03/2010 to 12/03/2010 | Analytical Run #: 72202

Sample Number	Analysis or QC Type	DF	Analysis Date/ Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Mo	Li	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	W	V	Zn
878366	ICV	1.00	12/03 14:16																				X				X					
878367	ICB	1.00	12/03 14:19																				X				X					
878368	MRL	1.00	12/03 14:21																				X				X					
878369	ICSA	1.00	12/03 14:24	X							X				X		X						X				X					
878370	ICSAB	1.00	12/03 14:26	X							X				X		X						X				X					
877403	LCSS	1.00	12/03 16:47																				X				X					
877402	MBS	1.00	12/03 16:49																				X				X					
878379	CCV	1.00	12/03 16:52																				X				X					
878380	CCB	1.00	12/03 16:54																				X				X					
869552	Initial	1.00	12/03 16:57																				X				X					
878381	L	5	12/03 16:59																				X				X					
877404	DUP	1.00	12/03 17:02																				X				X					
877405	MSS	1.00	12/03 17:04																				X				X					
877406	MSDS	1.00	12/03 17:07																				X				X					
878382	PDSS	1.00	12/03 17:09																				X				X					
869553	Initial	1.00	12/03 17:12																				X				X					
869554	Initial	1.00	12/03 17:14																				X				X					
869555	Initial	1.00	12/03 17:17																				X				X					
869556	Initial	1.00	12/03 17:19																				X				X					
878383	CCV	1.00	12/03 17:22																				X				X					
878384	CCB	1.00	12/03 17:24																				X				X					

CT LABORATORIES
delivering more than data from your environmental analyses

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ANALYSIS RUN LOG

Lab Name: CT Laboratories
Contract: USACE - LOUISVILLE-RAVENNA

Lab Code: CTL
SDG No.: 82399

Instrument ID Number: TJA
Method Number: P

Start & End Date: 12/03/2010 to 12/09/2010
Analytical Run #: 72203

Sample Number	Analysis or QC Type	DF	Analysis Date/ Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Mo	Li	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	W	V	Zn
878852	ICV	1.00	12/03 14:04	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
878854	ICB	1.00	12/03 14:15	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
878855	MRL	1.00	12/03 14:20	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
878856	ICSA	1.00	12/03 14:26	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
882699	ICSAB	1.00	12/03 14:32	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
879406	CCV	1.00	12/03 18:11	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
879410	CCV	1.00	12/03 18:16		X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
879411	CCB	1.00	12/03 18:27	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
877408	LCSS	1.00	12/03 18:55	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
877407	MBS	1.00	12/03 19:01	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
870188	Initial	2.00	12/03 19:06	X	X	X	X	X		X	X	X	X	X		X						X		X		X						X	X
870189	Initial	2.00	12/03 19:12	X	X	X	X	X		X	X	X	X	X		X						X		X		X						X	X
879412	L	5	12/03 19:18	X	X	X	X	X		X	X	X	X	X		X						X		X		X						X	X
877409	DUP	2.00	12/03 19:23	X	X	X	X	X		X	X	X	X	X		X						X		X		X						X	X
879408	CCV	1.00	12/03 19:29	X	X	X	X	X			X	X	X	X		X						X		X		X			X			X	X
879413	CCV	1.00	12/03 19:34	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
879414	CCB	1.00	12/03 19:45	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
877410	MSS	2.00	12/03 19:50	X	X	X	X	X		X	X	X	X	X		X						X		X		X						X	X
877411	MSDS	2.00	12/03 19:56	X	X	X	X	X		X	X	X	X	X								X		X		X						X	X
877411	MSDS	2.00	12/03 19:56													X																	
879415	PDSS	1.00	12/03 20:01	X	X	X	X	X		X	X	X	X	X		X						X		X		X						X	X
870190	Initial	2.00	12/03 20:07	X	X	X	X	X		X	X	X	X	X		X						X				X						X	X
870191	Initial	2.00	12/03 20:12	X	X	X	X	X		X	X	X	X	X		X						X		X		X						X	X
870192	Initial	2.00	12/03 20:18	X	X	X	X	X		X	X	X	X	X		X						X				X						X	X
870193	Initial	2.00	12/03 20:24	X	X	X	X	X		X	X	X	X	X		X						X				X			X			X	X
870194	Initial	2.00	12/03 20:29	X	X	X	X	X		X	X	X	X	X		X						X		X		X						X	X
870195	Initial	2.00	12/03 20:35	X	X	X	X	X		X	X	X	X	X		X						X				X						X	X
870196	Initial	2.00	12/03 20:41	X	X	X	X	X		X	X	X	X	X		X						X				X						X	X
879423	CCV	1.00	12/03 20:46	X	X	X	X	X			X	X	X	X	X	X		X				X		X		X			X			X	X

CT LABORATORIES
delivering more than data from your environmental analyses

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ANALYSIS RUN LOG

Lab Name: CT Laboratories | Contract: USACE - LOUISVILLE-RAVENNA

Lab Code: CTL | SDG No.: 82399

Instrument ID Number: TJA | Method Number: P

Start & End Date: 12/03/2010 to 12/09/2010 | Analytical Run #: 72203

Sample Number	Analysis or QC Type	DF	Analysis Date/ Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Mo	Li	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	W	V	Zn
879416	CCV	1.00	12/03 20:51	X	X	X	X	X		X	X	X	X	X		X	X	X				X		X		X			X			X	X
879417	CCB	1.00	12/03 21:02	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
870197	Initial	2.00	12/03 21:08	X	X	X	X	X		X	X	X	X	X	X	X		X				X				X						X	X
870208	Initial	2.00	12/03 21:13	X	X	X	X	X		X	X	X	X	X	X	X		X				X				X						X	X
870209	Initial	2.00	12/03 21:19	X	X	X	X	X		X	X	X	X	X	X	X		X				X				X						X	X
870210	Initial	2.00	12/03 21:25	X	X	X	X	X		X	X	X	X	X	X	X		X				X				X						X	X
870211	Initial	2.00	12/03 21:30	X	X	X	X	X		X	X	X	X	X	X	X		X				X				X						X	X
870212	Initial	2.00	12/03 21:36	X	X	X	X	X		X	X	X	X	X	X	X		X				X		X		X						X	X
870213	Initial	2.00	12/03 21:42	X	X	X	X	X		X	X	X	X	X	X	X		X				X		X		X						X	X
870214	Initial	2.00	12/03 21:47	X	X	X	X	X		X	X	X	X	X	X	X		X				X				X						X	X
870215	Initial	2.00	12/03 21:53	X	X	X	X	X		X	X	X	X	X	X	X		X				X				X						X	X
870216	Initial	2.00	12/03 21:59	X	X	X	X	X		X	X	X	X	X	X	X		X				X				X						X	X
879421	CCV	1.00	12/03 22:04	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
879418	CCV	1.00	12/03 22:10	X	X	X	X	X		X	X	X	X	X		X	X	X				X		X		X			X			X	X
879419	CCB	1.00	12/03 22:20	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
881166	ICV	1.00	12/09 15:34												X		X	X						X					X				
881167	ICB	1.00	12/09 15:45												X		X	X						X					X				
881168	MRL	1.00	12/09 15:50												X		X	X						X					X				
881169	ICSA	1.00	12/09 15:55	X							X				X		X	X						X					X				
881170	ICSAB	1.00	12/09 16:01	X							X				X		X	X						X					X				
881188	CCV	1.00	12/09 17:02												X		X	X						X					X				
881171	CCV	1.00	12/09 17:07												X		X	X						X					X				
881172	CCB	1.00	12/09 17:17												X		X	X						X					X				
881183	CCV	1.00	12/09 18:18												X		X	X						X					X				
881173	CCV	1.00	12/09 18:24												X		X	X						X					X				
881174	CCB	1.00	12/09 18:34												X		X	X						X					X				
870188	Re-Analysis	2.00	12/09 18:39												X		X	X											X				
870189	Re-Analysis	2.00	12/09 18:45												X		X	X											X				

CT LABORATORIES
delivering more than data from your environmental analyses

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ANALYSIS RUN LOG

Lab Name: CT Laboratories
Contract: USACE - LOUISVILLE-RAVENNA

Lab Code: CTL
SDG No.: 82399

Instrument ID Number: TJA
Method Number: P

Start & End Date: 12/03/2010 to 12/09/2010
Analytical Run #: 72203

Sample Number	Analysis or QC Type	DF	Analysis Date/ Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Mo	Li	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	W	V	Zn
881765	L	5	12/09 18:50												X		X	X										X				
877409	DUP	2.00	12/09 18:56												X		X	X										X				
877410	MSS	2.00	12/09 19:01												X		X	X										X				
877411	MSDS	2.00	12/09 19:06												X		X	X										X				
881766	PDSS	1.00	12/09 19:12												X		X	X										X				
870190	Re-Analysis	2.00	12/09 19:17												X		X	X						X				X				
870191	Re-Analysis	2.00	12/09 19:23												X		X	X										X				
870192	Re-Analysis	2.00	12/09 19:28												X		X	X						X				X				
881185	CCV	1.00	12/09 19:34												X		X	X						X				X				
881177	CCV	1.00	12/09 19:39												X		X	X						X				X				
881178	CCB	1.00	12/09 19:49												X		X	X						X				X				
870193	Re-Analysis	2.00	12/09 19:54												X		X	X						X								
870194	Re-Analysis	2.00	12/09 20:00												X		X	X										X				
870195	Re-Analysis	2.00	12/09 20:05												X		X	X						X				X				
870196	Re-Analysis	2.00	12/09 20:11												X		X	X						X				X				
870197	Re-Analysis	2.00	12/09 20:16														X							X				X				
870208	Re-Analysis	2.00	12/09 20:22														X							X				X				
870209	Re-Analysis	2.00	12/09 20:27														X							X				X				
870210	Re-Analysis	2.00	12/09 20:32														X							X				X				
870211	Re-Analysis	2.00	12/09 20:38														X							X				X				
870212	Re-Analysis	2.00	12/09 20:43														X											X				
881772	CCV1	1.00	12/09 20:49												X		X	X						X				X				
881179	CCV	1.00	12/09 20:54												X		X	X						X				X				
881180	CCB	1.00	12/09 21:04												X		X	X						X				X				
870213	Re-Analysis	2.00	12/09 21:10														X											X				
870214	Re-Analysis	2.00	12/09 21:15														X							X				X				
870215	Re-Analysis	2.00	12/09 21:21														X							X				X				
870216	Re-Analysis	2.00	12/09 21:26														X							X				X				
881773	CCV1	1.00	12/09 22:04												X		X	X						X				X				

CT LABORATORIES
delivering more than data from your environmental analyses

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ANALYSIS RUN LOG

Lab Name: CT Laboratories

Contract: USACE - LOUISVILLE-RAVENNA

Lab Code: CTL

SDG No.: 82399

Instrument ID Number: TJA

Method Number: P

Start & End Date: 12/03/2010 to 12/09/2010

Analytical Run #: 72203

Sample Number	Analysis or QC Type	DF	Analysis Date/ Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Mo	Li	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	W	V	Zn
881181	CCV	1.00	12/09 22:09												X		X	X						X					X				
881182	CCB	1.00	12/09 22:20												X		X							X					X				

CT LABORATORIES
delivering more than data from your environmental analyses

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ANALYSIS RUN LOG

Lab Name: CT Laboratories
Contract: USACE - LOUISVILLE-RAVENNA

Lab Code: CTL
SDG No.: 82399

Instrument ID Number: TJA
Method Number: P

Start & End Date: 12/03/2010 to 12/03/2010
Analytical Run #: 72204

Sample Number	Analysis or QC Type	DF	Analysis Date/ Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Mo	Li	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	W	V	Zn
878391	ICV	1.00	12/03 14:16																				X				X					
878392	ICB	1.00	12/03 14:19																				X				X					
878393	MRL	1.00	12/03 14:21																				X				X					
878394	ICSA	1.00	12/03 14:24	X							X				X		X						X				X					
878395	ICSAB	1.00	12/03 14:26	X							X				X		X						X				X					
878401	CCV	1.00	12/03 15:23																				X				X					
878402	CCB	1.00	12/03 15:25																				X				X					
877408	LCSS	1.00	12/03 15:32																				X				X					
877407	MBS	1.00	12/03 15:35																				X				X					
870188	Initial	1.00	12/03 15:37																				X				X					
870189	Initial	1.00	12/03 15:40																				X				X					
878403	L	5	12/03 15:42																				X				X					
877409	DUP	1.00	12/03 15:45																				X				X					
877410	MSS	1.00	12/03 15:47																				X				X					
877411	MSDS	1.00	12/03 15:49																				X				X					
878404	CCV	1.00	12/03 15:52																				X				X					
878405	CCB	1.00	12/03 15:54																				X				X					
878406	PDSS	1.00	12/03 15:57																				X				X					
870190	Initial	1.00	12/03 15:59																				X				X					
870191	Initial	1.00	12/03 16:02																				X				X					
870192	Initial	1.00	12/03 16:04																				X				X					
870193	Initial	1.00	12/03 16:07																				X				X					
870194	Initial	1.00	12/03 16:09																				X				X					
870195	Initial	1.00	12/03 16:12																				X				X					
870196	Initial	1.00	12/03 16:14																				X				X					
870197	Initial	1.00	12/03 16:17																				X				X					
870208	Initial	1.00	12/03 16:19																				X				X					
878408	CCV	1.00	12/03 16:22																				X				X					
878409	CCB	1.00	12/03 16:24																				X				X					

CT LABORATORIES
delivering more than data from your environmental analyses

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ANALYSIS RUN LOG

Lab Name: CT Laboratories

Contract: USACE - LOUISVILLE-RAVENNA

Lab Code: CTL

SDG No.: 82399

Instrument ID Number: TJA

Method Number: P

Start & End Date: 12/03/2010 to 12/03/2010

Analytical Run #: 72204

Sample Number	Analysis or QC Type	DF	Analysis Date/ Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Mo	Li	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	W	V	Zn
870209	Initial	1.00	12/03 16:27																				X				X					
870210	Initial	1.00	12/03 16:29																				X				X					
870211	Initial	1.00	12/03 16:32																				X				X					
870212	Initial	1.00	12/03 16:34																				X				X					
870213	Initial	1.00	12/03 16:37																				X				X					
870214	Initial	1.00	12/03 16:39																				X				X					
870215	Initial	1.00	12/03 16:42																				X				X					
870216	Initial	1.00	12/03 16:44																				X				X					
878411	CCV	1.00	12/03 16:52																				X				X					
878412	CCB	1.00	12/03 16:54																				X				X					

CT LABORATORIES
delivering more than data from your environmental analyses

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ANALYSIS RUN LOG

Lab Name: CT Laboratories
Contract: USACE - LOUISVILLE-RAVENNA

Lab Code: CTL
SDG No.: 82399

Instrument ID Number: CETAC
Method Number: CV

Start & End Date: 11/24/2010 to 11/24/2010
Analytical Run #: 72018

Sample Number	Analysis or QC Type	DF	Analysis Date/ Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Mo	Li	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	W	V	Zn
875791	ICV	1.00	11/24 09:35																X													
875792	ICB	1.00	11/24 09:37																X													
874583	LCSS	1.00	11/24 09:40																X													
874582	MBS	1.00	11/24 09:42																X													
870200	Initial	1.00	11/24 09:44																X													
870201	Initial	1.00	11/24 09:46																X													
875793	L	5	11/24 09:48																X													
874584	DUP	1.00	11/24 09:50																X													
874585	MSS	1.00	11/24 09:51																X													
874586	MSDS	1.00	11/24 09:53																X													
875794	PDSS	1.00	11/24 09:55																X													
875795	CCV	1.00	11/24 09:57																X													
875796	CCB	1.00	11/24 09:59																X													
870202	Initial	1.00	11/24 10:01																X													
870203	Initial	1.00	11/24 10:03																X													
870204	Initial	1.00	11/24 10:05																X													
870207	Initial	1.00	11/24 10:06																X													
871184	Initial	1.00	11/24 10:08																X													
871186	Initial	1.00	11/24 10:10																X													
871187	Initial	1.00	11/24 10:12																X													
871188	Initial	1.00	11/24 10:14																X													
871189	Initial	1.00	11/24 10:16																X													
871190	Initial	1.00	11/24 10:18																X													
875797	CCV	1.00	11/24 10:19																X													
875798	CCB	1.00	11/24 10:21																X													
871191	Initial	1.00	11/24 10:23																X													
871192	Initial	1.00	11/24 10:25																X													
871193	Initial	1.00	11/24 10:27																X													
871194	Initial	1.00	11/24 10:29																X													

CT LABORATORIES
delivering more than data from your environmental analyses

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ANALYSIS RUN LOG

Lab Name: CT Laboratories

Contract: USACE - LOUISVILLE-RAVENNA

Lab Code: CTL

SDG No.: 82399

Instrument ID Number: CETAC

Method Number: CV

Start & End Date: 11/24/2010 to 11/24/2010

Analytical Run #: 72018

Sample Number	Analysis or QC Type	DF	Analysis Date/ Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Mo	Li	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	W	V	Zn
871195	Initial	1.00	11/24 10:31																X													
871196	Initial	1.00	11/24 10:33																X													
871197	Initial	1.00	11/24 10:35																X													
871198	Initial	1.00	11/24 10:36																X													
875799	CCV	1.00	11/24 10:42																X													
875800	CCB	1.00	11/24 10:44																X													

CT LABORATORIES
delivering more than data from your environmental analyses

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ANALYSIS RUN LOG

Lab Name: CT Laboratories

Contract: USACE - LOUISVILLE-RAVENNA

Lab Code: CTL

SDG No.: 82399

Instrument ID Number: CETAC

Method Number: CV

Start & End Date: 12/08/2010 to 12/08/2010

Analytical Run #: 72326

Sample Number	Analysis or QC Type	DF	Analysis Date/ Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Mo	Li	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	W	V	Zn
879513	ICV	1.00	12/08 13:28																X													
879514	ICB	1.00	12/08 13:29																X													
878267	LCSS	1.00	12/08 13:33																X													
878266	MBS	1.00	12/08 13:35																X													
869552	Initial	1.00	12/08 13:37																X													
879515	L	5	12/08 13:39																X													
878268	DUP	1.00	12/08 13:41																X													
878269	MSS	1.00	12/08 13:42																X													
878270	MSDS	1.00	12/08 13:44																X													
879516	PDSS	1.00	12/08 13:46																X													
869553	Initial	1.00	12/08 13:48																X													
879517	CCV	1.00	12/08 13:50																X													
879518	CCB	1.00	12/08 13:52																X													
869554	Initial	1.00	12/08 13:54																X													
869555	Initial	1.00	12/08 13:56																X													
869556	Initial	1.00	12/08 13:57																X													
879519	CCV	1.00	12/08 14:12																X													
879520	CCB	1.00	12/08 14:14																X													

CT LABORATORIES
delivering more than data from your environmental analyses

14

ANALYSIS RUN LOG

Lab Name: CT Laboratories | Contract: USACE - LOUISVILLE-RAVENNA

Lab Code: CTL | SDG No.: 82399

Instrument ID Number: CETAC | Method Number: CV

Start & End Date: 12/08/2010 to 12/08/2010 | Analytical Run #: 72327

Sample Number	Analysis or QC Type	DF	Analysis Date/ Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Mo	Li	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	W	V	Zn
879535	ICV	1.00	12/08 13:28																X													
879536	ICB	1.00	12/08 13:29																X													
879537	CCV	1.00	12/08 13:50																X													
879538	CCB	1.00	12/08 13:52																X													
878272	LCSS	1.00	12/08 13:59																X													
878271	MBS	1.00	12/08 14:01																X													
870188	Initial	1.00	12/08 14:03																X													
870189	Initial	1.00	12/08 14:05																X													
879539	L	5	12/08 14:07																X													
878274	DUP	1.00	12/08 14:09																X													
878275	MSS	1.00	12/08 14:10																X													
879540	CCV	1.00	12/08 14:12																X													
879541	CCB	1.00	12/08 14:14																X													
878276	MSDS	1.00	12/08 14:16																X													
879542	PDSS	1.00	12/08 14:18																X													
870190	Initial	1.00	12/08 14:20																X													
870191	Initial	1.00	12/08 14:22																X													
870192	Initial	1.00	12/08 14:24																X													
870193	Initial	1.00	12/08 14:26																X													
870194	Initial	1.00	12/08 14:27																X													
870195	Initial	1.00	12/08 14:29																X													
870196	Initial	1.00	12/08 14:31																X													
870197	Initial	1.00	12/08 14:33																X													
879543	CCV	1.00	12/08 14:35																X													
879544	CCB	1.00	12/08 14:37																X													
870208	Initial	1.00	12/08 14:39																X													
870209	Initial	1.00	12/08 14:41																X													
870210	Initial	1.00	12/08 14:42																X													
870211	Initial	1.00	12/08 14:44																X													

CT LABORATORIES
delivering more than data from your environmental analyses

14

ANALYSIS RUN LOG

Lab Name: CT Laboratories

Contract: USACE - LOUISVILLE-RAVENNA

Lab Code: CTL

SDG No.: 82399

Instrument ID Number: CETAC

Method Number: CV

Start & End Date: 12/08/2010 to 12/08/2010

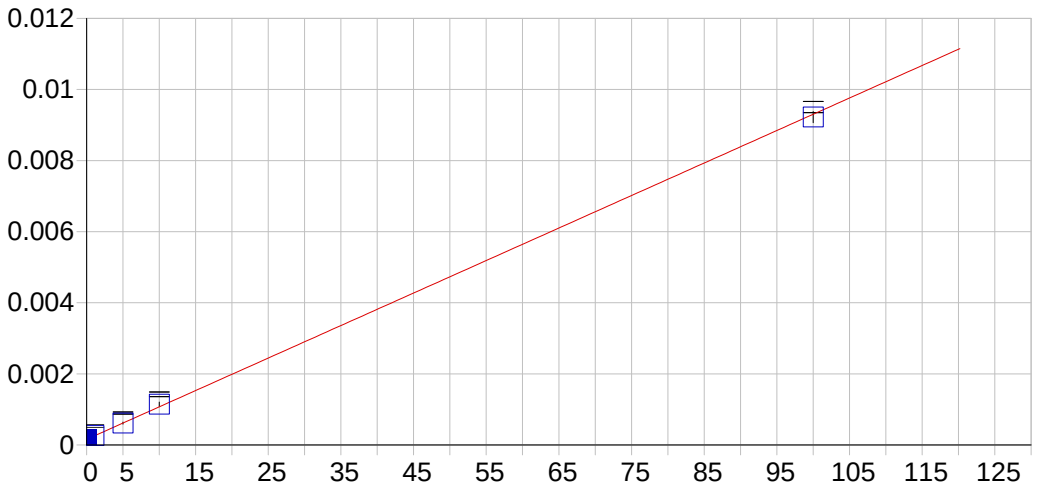
Analytical Run #: 72327

Sample Number	Analysis or QC Type	DF	Analysis Date/ Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Mo	Li	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	W	V	Zn
870212	Initial	1.00	12/08 14:46																X													
870213	Initial	1.00	12/08 14:48																X													
870214	Initial	1.00	12/08 14:50																X													
870215	Initial	1.00	12/08 14:52																X													
870216	Initial	1.00	12/08 14:54																X													
879545	CCV	1.00	12/08 14:57																X													
879546	CCB	1.00	12/08 14:59																X													

METALS
RAW DATA
DOCUMENTS

Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)	Correlation	Std Error of Est	Predicted MDL	Predicted MQL
Ag 328.068 {103}	11/19/2010 09:50:47	11/19/2010 09:50:47	Linear	None	0.000073	0.000114	0.000000	1.000000	0.999903	0.000079	1.574029	5.246764
Ag 338.289 {100}	11/19/2010 09:07:06	11/19/2010 09:07:06	Linear	None	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	-1.000000	-1.000000
Al 167.079 {502}	11/19/2010 09:55:50	11/19/2010 09:55:50	Linear	None	0.000011	0.000001	0.000000	1.000000	0.999735	0.000010	5.778066	19.260222
Al 309.271 {109}	11/19/2010 10:13:16	11/19/2010 10:13:16	Linear	1/Conc	0.000549	0.000003	0.000000	1.000000	0.999821	0.000028	42.480664	141.602212
Al 396.152 { 85}	11/19/2010 10:25:31	11/19/2010 10:25:31	Full Fit	1/Conc	0.000116	0.000004	0.000000	1.030000	0.999937	0.000143	42.406139	141.353797
As 189.042 {479}	11/19/2010 10:01:38	11/19/2010 10:01:38	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000	0.999883	0.000000	26.336138	87.787126
As 193.759 {474}	11/22/2010 08:35:01	11/19/2010 09:55:50	Linear	None	-0.000002	0.000000	0.000000	1.000000	0.999926	0.000003	16.095048	53.650159
Ba 455.403 { 74}	11/19/2010 09:50:47	11/19/2010 09:50:47	Linear	1/Conc	0.000243	0.000277	0.000000	1.000000	0.998906	0.000007	1.034623	3.448745
Ba 493.409 { 68}	11/19/2010 10:01:38	11/19/2010 10:01:38	Linear	1/Conc	0.015837	0.000335	0.000000	1.000000	0.999987	0.000309	1.644466	5.481555
Be 234.861 {144}	11/19/2010 09:55:50	11/19/2010 09:55:50	Linear	None	0.000107	0.000041	0.000000	1.000000	0.999992	0.000132	0.883275	2.944251
Be 313.042 {108}	11/19/2010 09:55:50	11/19/2010 09:55:50	Linear	1/Conc	0.000099	0.000436	0.000000	1.000000	0.999875	0.000004	0.284556	0.948520
Ca 317.933 {106}	11/19/2010 10:25:31	11/19/2010 10:25:31	Full Fit	1/Conc	0.004619	0.000008	-0.000000	1.010000	0.999995	0.000059	8.263439	27.544798
Ca 393.366 { 86}	11/19/2010 09:55:50	11/19/2010 09:55:50	Linear	None	0.014279	0.000839	0.000000	1.000000	0.999908	0.009090	0.175990	0.586633
Ca 396.847 { 85}	11/19/2010 10:01:38	11/19/2010 10:01:38	Linear	1/Conc	0.004396	0.000405	0.000000	1.000000	0.999940	0.000209	0.292103	0.973677
Cd 226.502 {449}	11/19/2010 09:55:50	11/19/2010 09:55:50	Linear	1/Conc	0.000003	0.000031	0.000000	1.000000	0.999619	0.000001	0.434395	1.447983
Cd 228.802 {447}	11/19/2010 09:55:50	11/19/2010 09:55:50	Linear	None	0.000135	0.000031	0.000000	1.000000	0.999973	0.000176	0.496281	1.654271
Co 228.616 {447}	11/19/2010 09:55:50	11/19/2010 09:55:50	Linear	1/Conc	0.000005	0.000016	0.000000	1.000000	0.999696	0.000000	0.778882	2.596274
Co 238.892 {141}	11/19/2010 10:01:38	11/19/2010 10:01:38	Linear	1/Conc	0.000003	0.000005	0.000000	1.000000	1.000000	0.000000	7.988738	26.629128
Cr 267.716 {126}	11/19/2010 09:55:50	11/19/2010 09:55:50	Linear	1/Conc	0.000033	0.000044	0.000000	1.000000	0.999537	0.000002	1.636688	5.455625
Cr 283.563 {119}	11/19/2010 10:07:29	11/19/2010 10:07:29	Linear	1/Conc	0.000032	0.000012	0.000000	1.000000	0.999991	0.000004	5.913434	19.711447
Cu 224.700 {450}	11/19/2010 10:01:38	11/19/2010 10:01:38	Linear	1/Conc	0.000057	0.000007	0.000000	1.000000	0.999820	0.000001	1.856968	6.189893
Cu 324.754 {104}	11/19/2010 10:07:29	11/19/2010 10:07:29	Linear	None	0.002672	0.000003	0.000000	1.000000	0.999993	0.000610	32.871242	109.570806
Cu 327.396 {103}	11/19/2010 09:55:50	11/19/2010 09:55:50	Linear	None	0.001979	0.000037	0.000000	1.000000	0.999848	0.000287	4.993249	16.644164
Fe 234.349 {144}	11/19/2010 10:25:31	11/19/2010 10:25:31	Full Fit	1/Conc	0.000079	0.000001	0.000000	1.040000	0.999997	0.000006	59.554381	198.514603
Fe 239.562 {141}	11/19/2010 10:01:38	11/19/2010 10:01:38	Linear	None	0.000214	0.000004	0.000000	1.000000	0.999995	0.000108	6.851589	22.838631
Fe 259.940 {130}	11/22/2010 08:35:21	11/19/2010 09:55:50	Linear	None	0.000262	0.000007	0.000000	1.000000	0.998778	0.000176	7.379404	24.598015
Mg 279.079 {121}	11/19/2010 10:25:31	11/19/2010 10:25:31	Full Fit	None	0.000418	0.000001	0.000000	1.060000	1.000000	0.000514	101.517204	338.390681
Mg 279.553 {121}	11/19/2010 09:45:25	11/19/2010 09:45:25	Linear	None	0.000928	0.000198	0.000000	1.000000	0.999797	0.000106	0.169631	0.565436
Mg 280.270 {120}	11/19/2010 10:01:38	11/19/2010 10:01:38	Linear	1/Conc	0.000713	0.000129	0.000000	1.000000	0.999964	0.000199	0.346747	1.155825
Mn 257.610 {131}	11/19/2010 10:01:38	11/19/2010 10:01:38	Linear	1/Conc	0.000007	0.000076	0.000000	1.000000	0.999886	0.000004	0.863768	2.879228
Mn 259.373 {130}	11/19/2010 10:07:29	11/19/2010 10:07:29	Linear	1/Conc	0.000051	0.000055	0.000000	1.000000	0.999970	0.000200	1.150590	3.835299
Mo 202.030 {467}	11/19/2010 09:55:50	11/19/2010 09:55:50	Linear	None	0.000012	0.000005	0.000000	1.000000	0.999975	0.000012	1.831375	6.104584
Mo 203.844 {465}	11/19/2010 09:55:50	11/19/2010 09:55:50	Linear	None	0.000009	0.000002	0.000000	1.000000	0.999968	0.000007	3.745062	12.483540
Mo 204.598 {465}	11/19/2010 10:01:38	11/19/2010 10:01:38	Linear	1/Conc	-0.000002	0.000003	0.000000	1.000000	0.999832	0.000002	2.908810	9.696033
Ni 221.647 {452}	11/19/2010 10:01:38	11/19/2010 10:01:38	Linear	1/Conc	0.000004	0.000014	0.000000	1.000000	0.999962	0.000006	1.189901	3.966336
Ni 231.604 {445}	11/19/2010 09:55:50	11/19/2010 09:55:50	Linear	None	0.000013	0.000007	0.000000	1.000000	0.999973	0.000021	1.827872	6.092908
Pb 216.999 {455}	11/19/2010 10:07:29	11/19/2010 10:07:29	Full Fit	None	0.000010	0.000001	0.000000	0.950000	1.000000	0.000000	16.895798	56.319326
Pb 220.353 {453}	11/19/2010 09:55:50	11/19/2010 09:55:50	Linear	1/Conc	0.000004	0.000004	0.000000	1.000000	0.998886	0.000000	4.147797	13.825992
Sb 206.833 {463}	11/19/2010 10:01:38	11/19/2010 10:01:38	Linear	1/Conc	0.000000	0.000001	0.000000	1.000000	0.999757	0.000000	8.929338	29.764461
Sb 217.581 {455}	11/19/2010 10:01:38	11/19/2010 10:01:38	Linear	1/Conc	-0.000007	0.000001	0.000000	1.000000	0.999849	0.000000	11.286894	37.622979
Se 196.090 {472}	11/19/2010 10:01:38	11/19/2010 10:01:38	Linear	1/Conc	0.000005	0.000000	0.000000	1.000000	0.999503	0.000000	20.775374	69.251247
Se 206.279 {463}	11/19/2010 10:01:38	11/19/2010 10:01:38	Linear	1/Conc	0.000003	0.000000	0.000000	1.000000	0.999861	0.000000	115.247644	384.158815
Tl 190.856 {477}	11/19/2010 10:01:38	11/19/2010 10:01:38	Linear	1/Conc	-0.000000	0.000000	0.000000	1.000000	0.999258	0.000000	16.881577	56.271922
Tl 276.787 {122}	11/19/2010 10:01:38	11/19/2010 10:01:38	Linear	None	0.000001	0.000000	0.000000	1.000000	0.999970	0.000021	255.056925	850.189751

Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)	Correlation	Std Error of Est	Predicted MDL	Predicted MQL
V 290.882 {116}	11/19/2010 10:01:38	11/19/2010 10:01:38	Linear	1/Conc	0.000927	0.000058	0.000000	1.000000	0.999992	0.000043	1.788995	5.963317
V 292.402 {115}	11/19/2010 09:55:50	11/19/2010 09:55:50	Linear	1/Conc	0.000101	0.000043	0.000000	1.000000	0.999897	0.000001	2.389161	7.963868
Zn 206.200 {463}	11/19/2010 10:07:29	11/19/2010 10:07:29	Full Fit	None	-0.000013	0.000012	-0.000000	0.980000	1.000000	0.000000	0.722657	2.408858
Zn 213.856 {458}	11/19/2010 09:55:50	11/19/2010 09:55:50	Linear	1/Conc	0.000033	0.000020	0.000000	1.000000	0.999538	0.000003	0.493507	1.645022
Y 360.073 { 94}*	11/19/2010 09:07:07	11/19/2010 09:07:07	Linear	None	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	-1.000000	-1.000000
B 249.773 {135}	11/19/2010 09:55:50	11/19/2010 09:55:50	Linear	None	0.000020	0.000006	0.000000	1.000000	0.999961	0.000029	9.882118	32.940395
Li 670.784 { 50}	11/19/2010 09:55:50	11/19/2010 09:55:50	Linear	None	0.000003	0.000096	0.000000	1.000000	0.999976	0.000298	4.288791	14.295971
Na 330.298 {102}	11/19/2010 10:13:16	11/19/2010 10:13:16	Linear	1/Conc	0.000002	0.000000	0.000000	1.000000	1.000000	0.000000	6274.46151	20914.8717
Si 251.611 {134}	11/19/2010 09:55:50	11/19/2010 09:55:50	Linear	None	0.000070	0.000000	0.000000	1.000000	1.000000	0.000000	562.053924	1873.51307
Sr 407.771 { 83}	11/19/2010 10:01:38	11/19/2010 10:01:38	Linear	1/Conc	-0.002599	0.000688	0.000000	1.000000	0.999908	0.000036	0.246340	0.821133
Ti 334.941 {101}	11/19/2010 09:55:50	11/19/2010 09:55:50	Linear	1/Conc	0.000016	0.000038	0.000000	1.000000	0.999365	0.000006	2.728691	9.095638

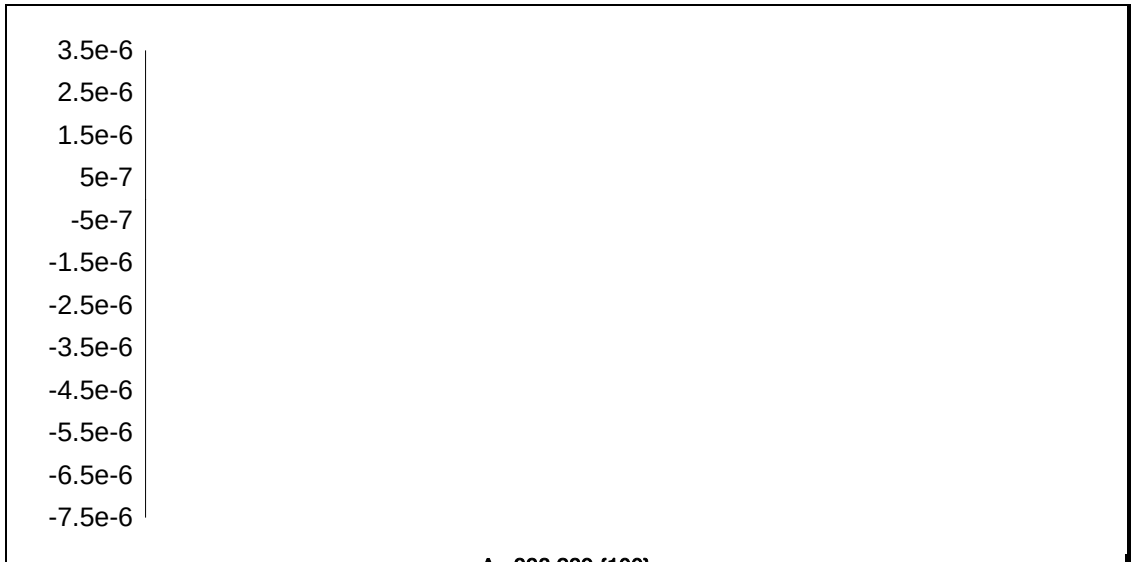


Ag 328.068 {103}

Date of Fit:	11/19/2010 09:50:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000159	Re-Slope:	1.000000
A1 (Gain):	0.000091	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999640	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	1.964047		
Predicted MQL:	6.546823		

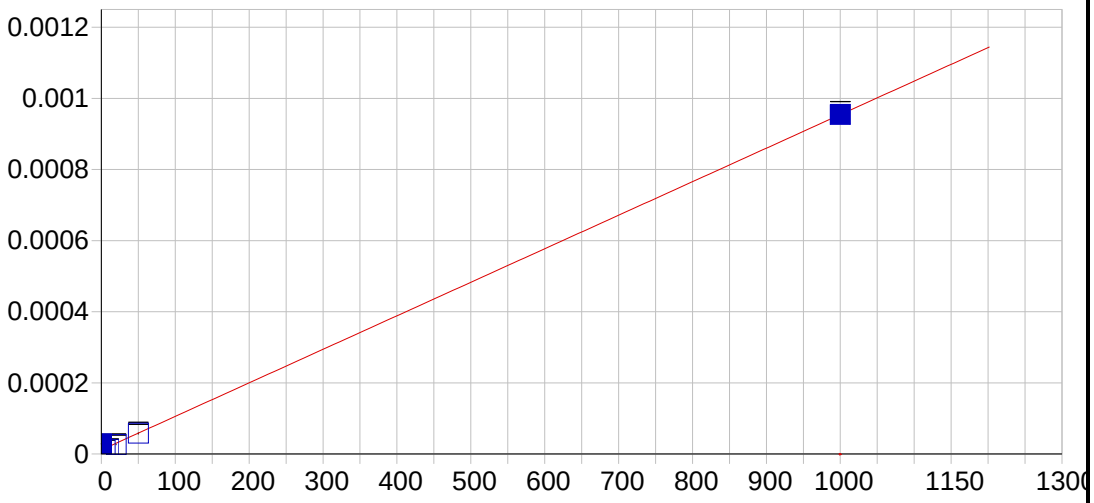
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00020	.000	.000	.00016	.000	1
CalibStd=100	100.00	99.132	-.868	-.868	.00922	.000	1
CalibStd=10	10.000	10.746	.746	7.46	.00114	.000	1
CalibStd=1	1.0000	1.1421	.142	14.2	.00026	.000	1
CalibStd=5	5.0000	4.9801	-.020	-.397	.00061	.000	1



Ag 338.289 {100}

Date of Fit:	11/19/2010 09:07:06	Type of Fit:	Linear	Weighting:	None	
A0 (Offset):	0.000000		Re-Slope:	1.000000		
A1 (Gain):	0.000000		Y-int:	0.000000		
A2 (Curvature):	0.000000					
n (Exponent):	1.000000					
Correlation:	0.000000		Status:	Warning	Zero Gain	
Std Error of Est:	0.000000					
Predicted MDL:	n/a					
Predicted MQL:	n/a					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00000	.000	1

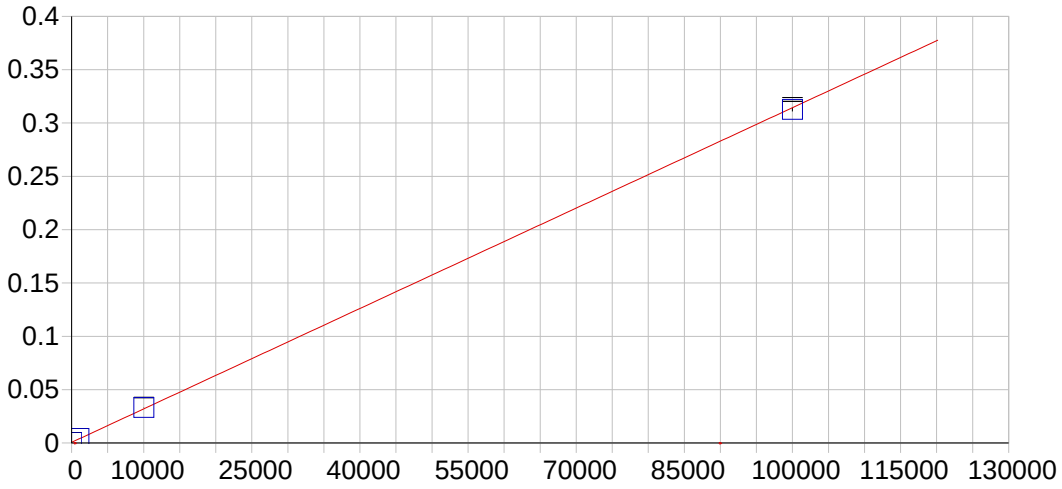


Al 167.079 {502}

Date of Fit:	11/19/2010 09:55:50	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000011	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999735	Status:	OK.
Std Error of Est:	0.000010		
Predicted MDL:	5.778066		
Predicted MQL:	19.260222		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	17.790	17.8	.000	.00003	.000	1
CalibStd=100	1000.0	1000.2	.226	.023	.00096	.000	1
CalibStd=20	20.000	15.804	-4.20	-21.0	.00003	.000	1
CalibStd=10	10.000	1.5979	-8.40	-84.0	.00001	.000	1
CalibStd=5	5.0000	.27855	-4.72	-94.4	.00001	.000	1
CalibStd=50	50.000	49.303	-.697	-1.39	.00006	.000	1

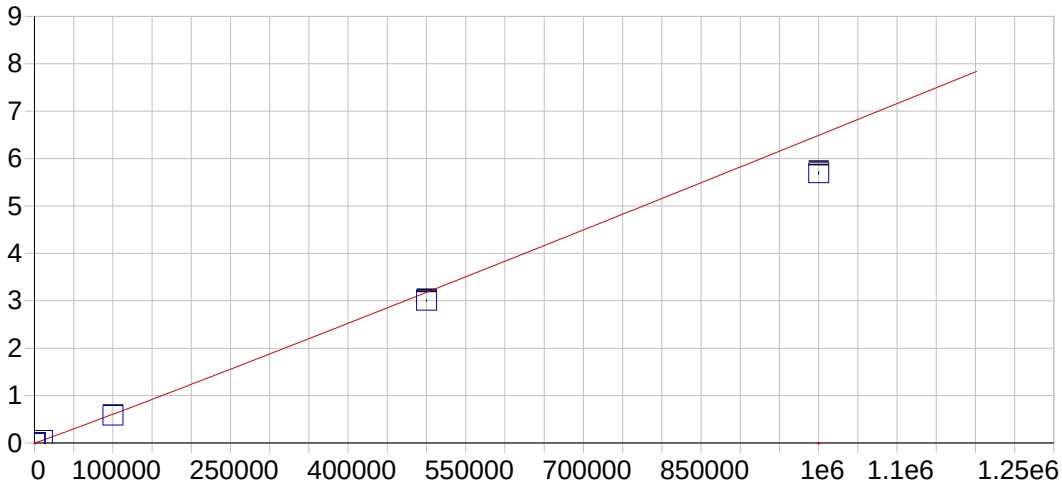


Al 309.271 {109}

Date of Fit:	11/19/2010 10:13:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000549	Re-Slope:	1.000000
A1 (Gain):	0.000003	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999821	Status:	OK.
Std Error of Est:	0.000028		
Predicted MDL:	42.480664		
Predicted MQL:	141.602212		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.17909	-.179	.000	.00055	.000	1
CalibStd=100	10000.	10398.	398.	3.98	.03318	.000	1
CalibStd=100	100000.	99457.	-543.	-.543	.31271	.002	1
CalibStd=100	1000.0	1144.7	145.	14.5	.00414	.000	1

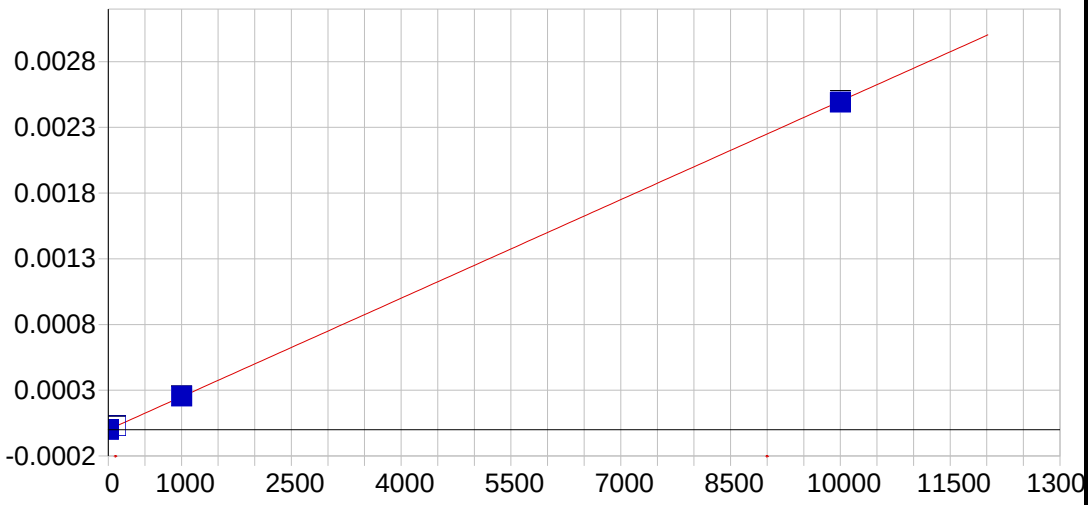


Al 396.152 { 85}

Date of Fit:	11/19/2010 10:25:31	Type of Fit:	Full Fit	Weighting:	1/Conc

A0 (Offset):	0.000116	Re-Slope:	1.000000
A1 (Gain):	0.000004	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.030000		
Correlation:	0.999937	Status:	OK.
Std Error of Est:	0.000143		
Predicted MDL:	42.406139		
Predicted MQL:	141.353797		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00011	.000	1
CalibStd=100	100000.	96289.	-3710.	-3.71	.58258	.002	1
CalibStd-100	1000000.	881300.	-119000.	-11.9	5.6974	.040	1
CalibStd=500	500000.	473830.	-26200.	-5.23	3.0067	.024	1
CalibStd=100	1000.0	1154.1	154.	15.4	.00623	.000	1
CalibStd=100	10000.	10898.	898.	8.98	.06187	.000	1

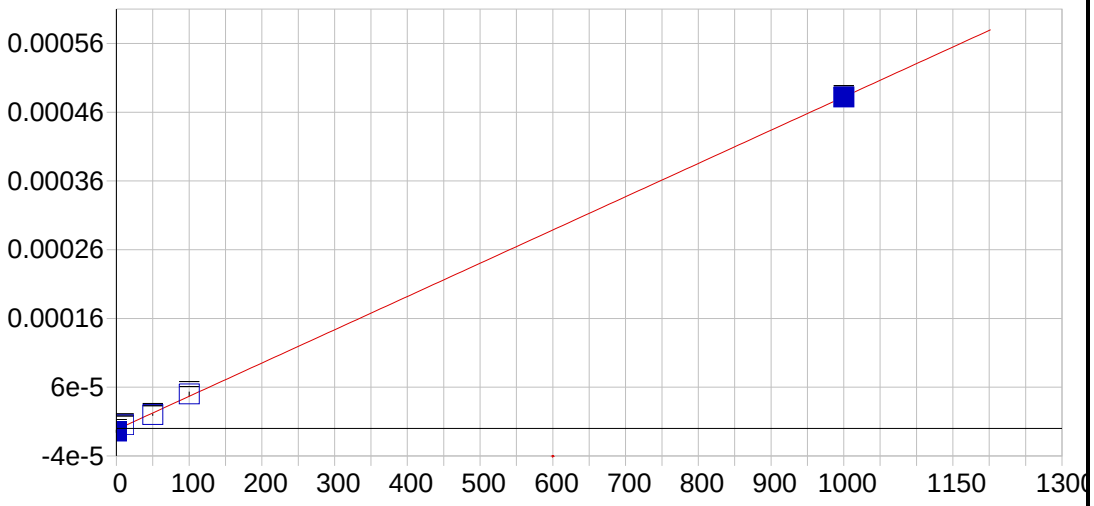


As 189.042 {479}

Date of Fit:	11/19/2010 10:01:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999883	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	26.336138		
Predicted MQL:	87.787126		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.01602	-.016	.000	.00000	.000	1
CalibStd=100	1000.0	1020.9	20.9	2.09	.00026	.000	1
CalibStd=100	10000.	9964.8	-35.2	-.352	.00249	.000	1
CalibStd=100	100.00	114.28	14.3	14.3	.00003	.000	1

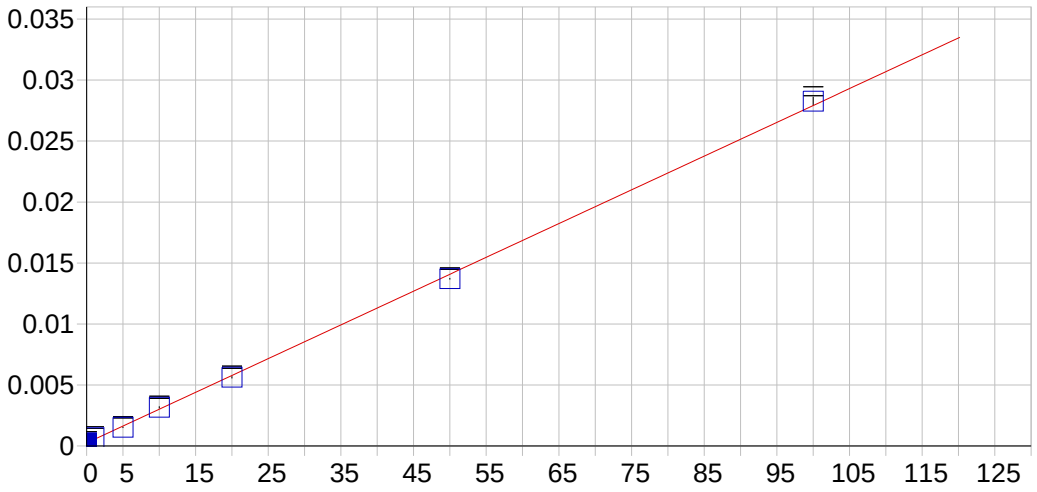


As 193.759 {474}

Date of Fit:	11/22/2010 08:35:01	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-0.000002	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999926	Status:	OK.
Std Error of Est:	0.000003		
Predicted MDL:	16.095048		
Predicted MQL:	53.650159		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-4.9027	-4.90	.000	.00000	.000	1
CalibStd=100	1000.0	999.56	-.444	-.044	.00048	.000	1
CalibStd=50	50.000	44.852	-5.15	-10.3	.00002	.000	1
CalibStd=10	10.000	13.866	3.87	38.7	.00001	.000	1
CalibStd=100	100.00	106.63	6.63	6.63	.00005	.000	1

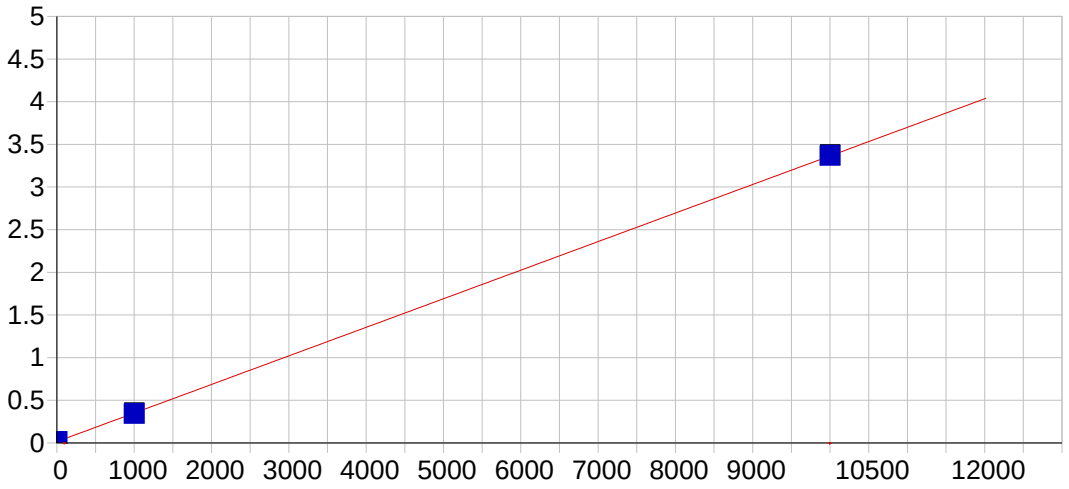


Ba 455.403 { 74}

Date of Fit:	11/19/2010 09:50:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000243	Re-Slope:	1.000000
A1 (Gain):	0.000277	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998906	Status:	OK.
Std Error of Est:	0.000007		
Predicted MDL:	1.034623		
Predicted MQL:	3.448745		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00046	.000	.000	.00024	.000	1
CalibStd=50	50.000	48.649	-1.35	-2.70	.01371	.000	1
CalibStd=10	10.000	10.530	.530	5.30	.00316	.000	1
CalibStd=20	20.000	19.442	-.558	-2.79	.00562	.000	1
CalibStd=100	100.00	101.24	1.24	1.24	.02826	.000	1
CalibStd=1	1.0000	1.5300	.530	53.0	.00067	.000	1
CalibStd=5	5.0000	4.6072	-.393	-7.86	.00152	.000	1

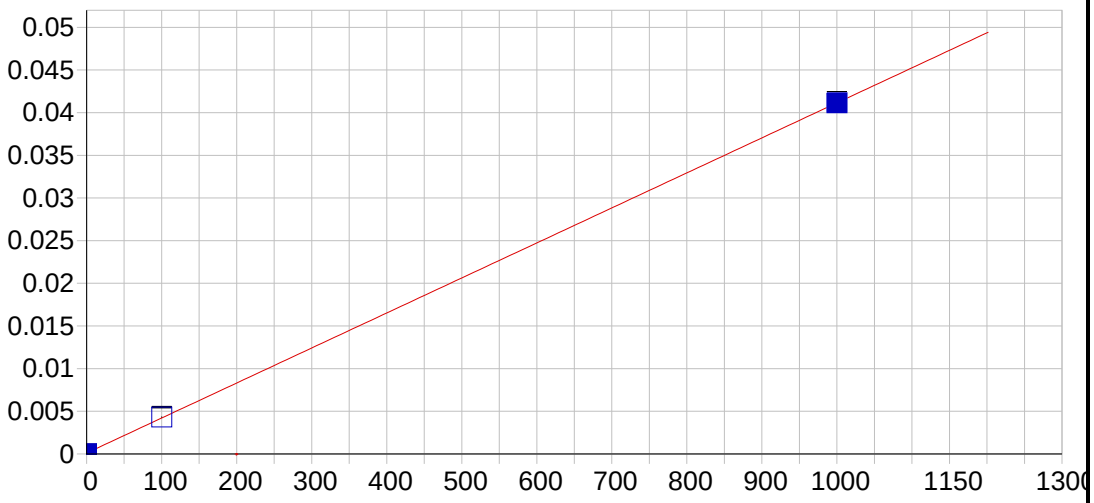


Ba 493.409 { 68}

Date of Fit:	11/19/2010 10:01:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.015837	Re-Slope:	1.000000
A1 (Gain):	0.000335	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999987	Status:	OK.
Std Error of Est:	0.000309		
Predicted MDL:	1.644466		
Predicted MQL:	5.481555		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.01447	.014	.000	.01584	.000	1
CalibStd=100	1000.0	983.92	-16.1	-1.61	.34536	.001	1
CalibStd=100	10000.	10016.	16.1	.161	3.3703	.007	1

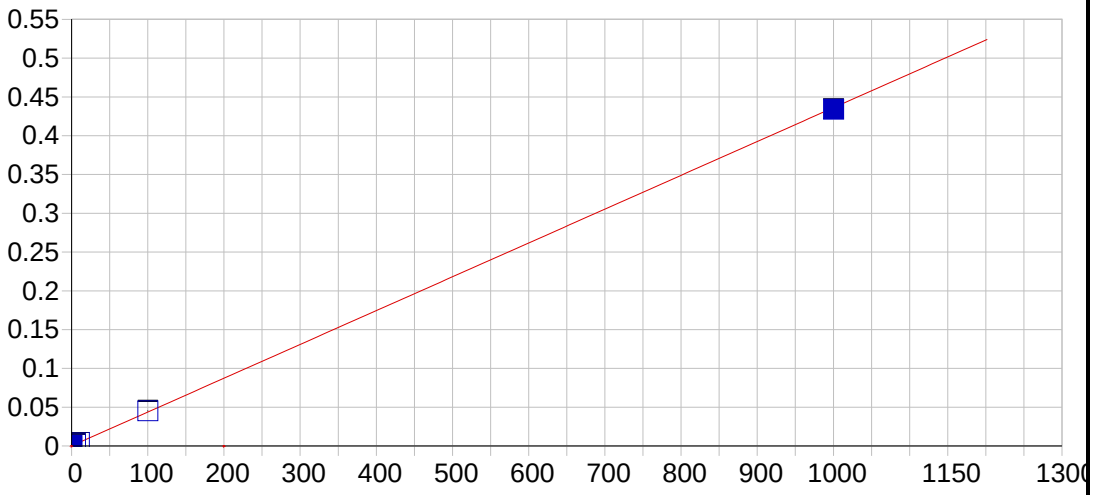


Be 234.861 {144}

Date of Fit:	11/19/2010 09:55:50	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000107	Re-Slope:	1.000000
A1 (Gain):	0.000041	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999992	Status:	OK.
Std Error of Est:	0.000132		
Predicted MDL:	0.883275		
Predicted MQL:	2.944251		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-2.1392	-2.14	.000	.00002	.000	1
CalibStd=100	1000.0	999.76	-.238	-.024	.04113	.000	1
CalibStd=100	100.00	102.38	2.38	2.38	.00431	.000	1

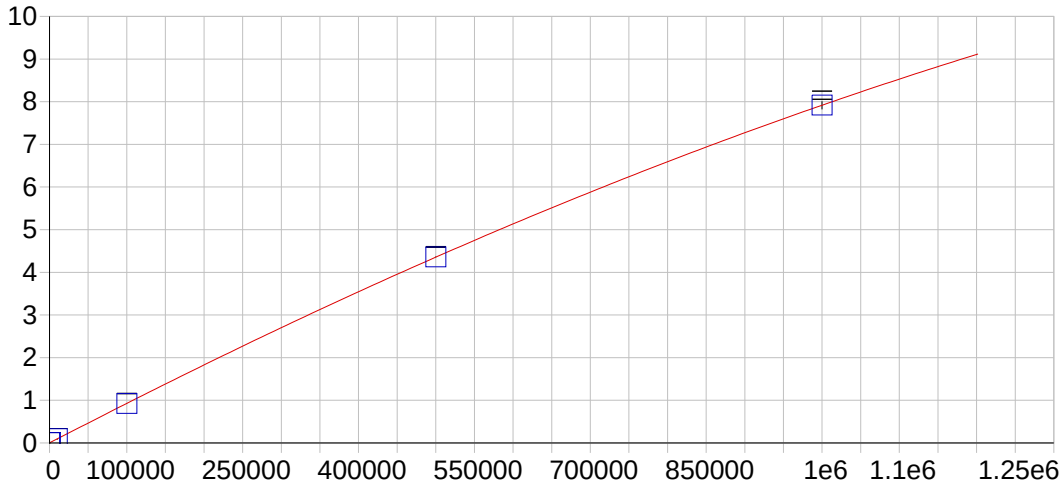


Be 313.042 {108}

Date of Fit:	11/19/2010 09:55:50	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000099	Re-Slope:	1.000000
A1 (Gain):	0.000436	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999875	Status:	OK.
Std Error of Est:	0.000004		
Predicted MDL:	0.284556		
Predicted MQL:	0.948520		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00006	.000	.000	.00010	.000	1
CalibStd=10	10.000	11.005	1.00	10.0	.00490	.000	1
CalibStd=100	100.00	103.55	3.55	3.55	.04525	.001	1
CalibStd=0.5	.50000	.53958	.040	7.92	.00033	.000	1
CalibStd=5	5.0000	5.3429	.343	6.86	.00243	.000	1
CalibStd=0.2	.25000	.24204	-.008	-3.18	.00020	.000	1
CalibStd=100	1000.0	995.07	-4.93	-.493	.43399	.001	1

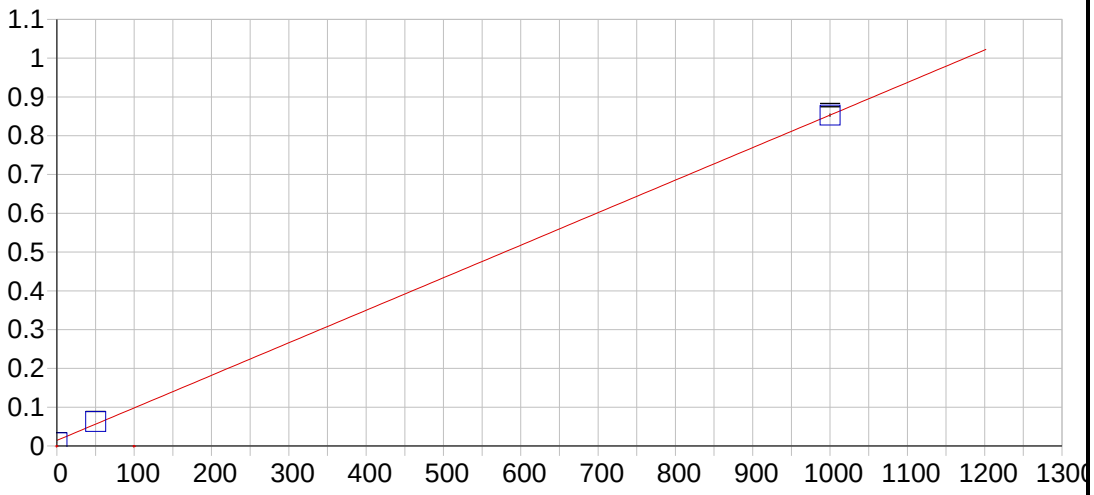


Ca 317.933 {106}

Date of Fit:	11/19/2010 10:25:31	Type of Fit:	Full Fit	Weighting:	1/Conc

A0 (Offset):	0.004619	Re-Slope:	1.000000
A1 (Gain):	0.000008	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	1.010000		
Correlation:	0.999995	Status:	OK.
Std Error of Est:	0.000059		
Predicted MDL:	8.263439		
Predicted MQL:	27.544798		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00462	.000	1
CalibStd=100	10000.	10159.	159.	1.59	.09763	.000	1
CalibStd=100	100000.	99510.	-490.	-.490	.92230	.004	1
CalibStd=500	500000.	500450.	448.	.090	4.3595	.009	1
CalibStd-100	1000000.	999790.	-213.	-.021	7.9165	.095	1
CalibStd=100	1000.0	1092.9	92.9	9.29	.01442	.000	1

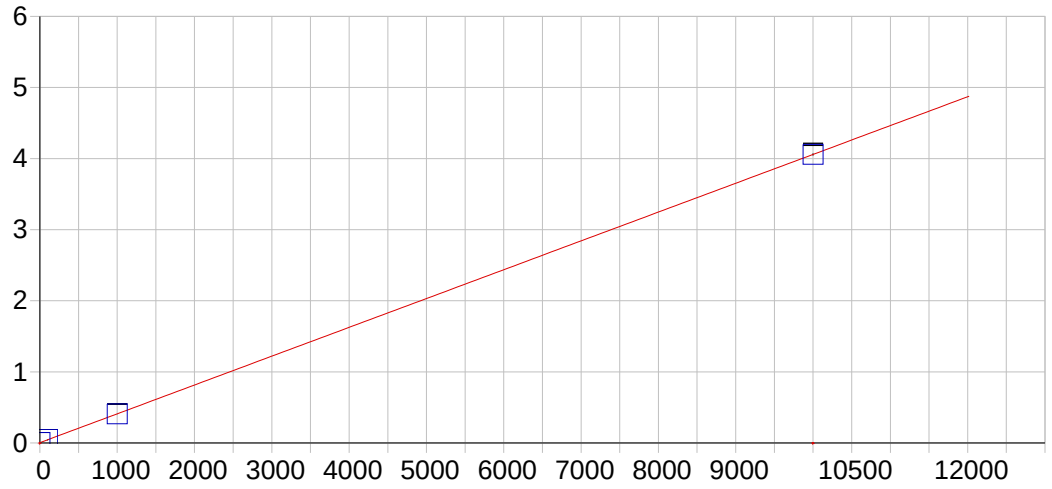


Ca 393.366 { 86}

Date of Fit:	11/19/2010 09:55:50	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.014279	Re-Slope:	1.000000
A1 (Gain):	0.000839	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999908	Status:	OK.
Std Error of Est:	0.009090		
Predicted MDL:	0.175990		
Predicted MQL:	0.586633		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-7.4569	-7.46	.000	.00802	.000	1
CalibStd=50	50.000	57.849	7.85	15.7	.06282	.000	1
CalibStd=100	1000.0	999.61	-.392	-.039	.85298	.004	1

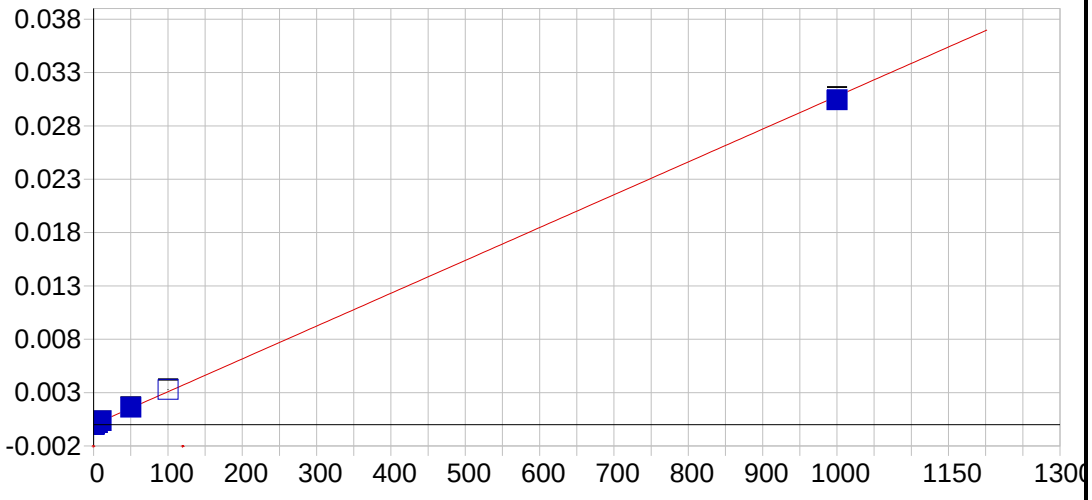


Ca 396.847 { 85}

Date of Fit:	11/19/2010 10:01:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004396	Re-Slope:	1.000000
A1 (Gain):	0.000405	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999940	Status:	OK.
Std Error of Est:	0.000209		
Predicted MDL:	0.292103		
Predicted MQL:	0.973677		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.01029	-.010	.000	.00439	.000	1
CalibStd=100	10000.	9997.6	-2.42	-.024	4.0576	.016	1
CalibStd=100	100.00	111.19	11.2	11.2	.04948	.000	1
CalibStd=100	1000.0	991.23	-8.77	-.877	.40625	.002	1

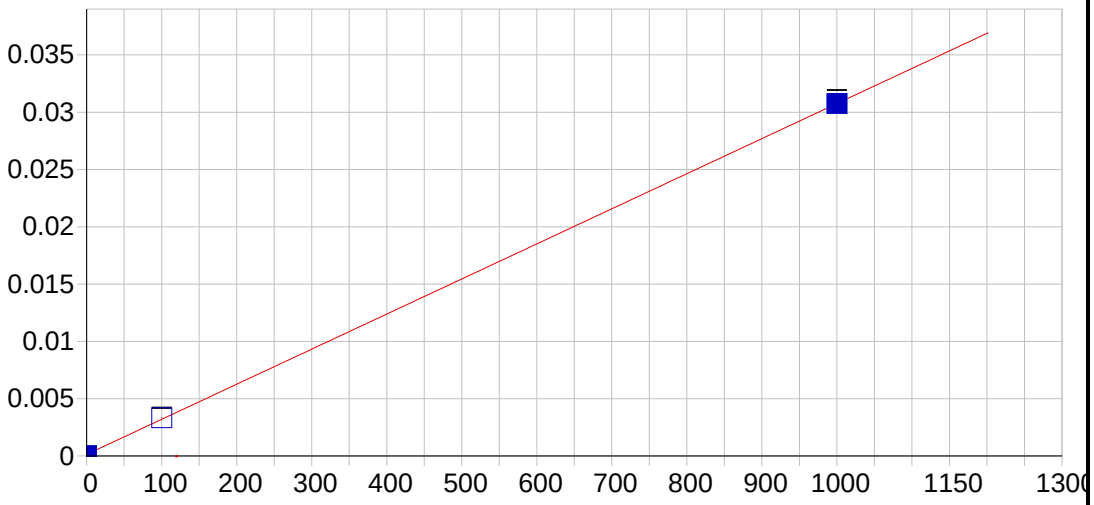


Cd 226.502 {449}

Date of Fit:	11/19/2010 09:55:50	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000003	Re-Slope:	1.000000
A1 (Gain):	0.000031	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999619	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	0.434395		
Predicted MQL:	1.447983		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00004	.000	.000	.00000	.000	1
CalibStd=50	50.000	52.833	2.83	5.67	.00163	.000	1
CalibStd=1	1.0000	.98315	-.017	-1.68	.00003	.000	1
CalibStd=0.5	.50000	.42638	-.074	-14.7	.00002	.000	1
CalibStd=5	5.0000	5.4526	.453	9.05	.00017	.000	1
CalibStd=0.2	.25000	.25252	.003	1.01	.00001	.000	1
CalibStd=100	100.00	106.70	6.70	6.70	.00329	.000	1
CalibStd=10	10.000	11.043	1.04	10.4	.00034	.000	1
CalibStd=100	1000.0	989.06	-10.9	-1.09	.03044	.000	1

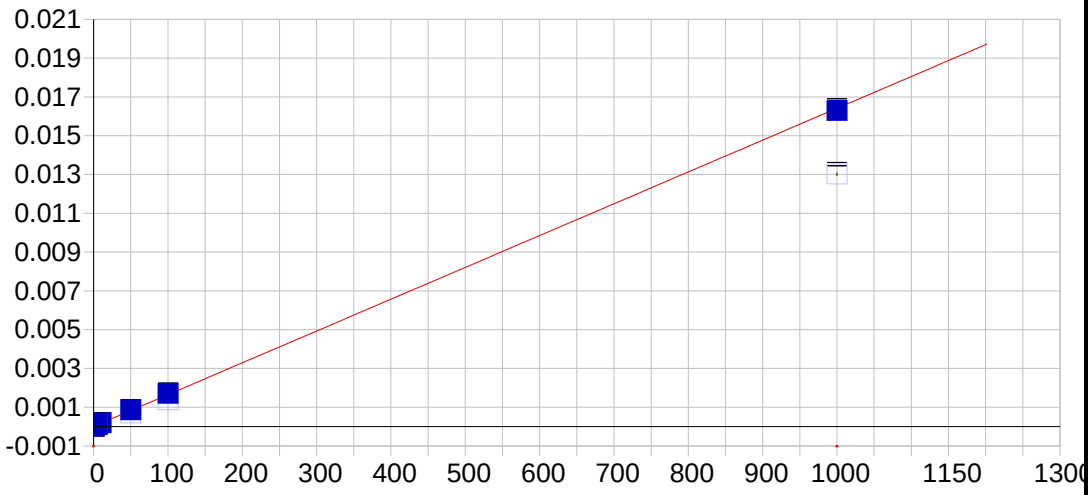


Cd 228.802 {447}

Date of Fit:	11/19/2010 09:55:50	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000135	Re-Slope:	1.000000
A1 (Gain):	0.000031	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999973	Status:	OK.
Std Error of Est:	0.000176		
Predicted MDL:	0.496281		
Predicted MQL:	1.654271		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-3.8432	-3.84	.000	.00002	.000	1
CalibStd=100	1000.0	999.57	-.427	-.043	.03074	.000	1
CalibStd=100	100.00	104.27	4.27	4.27	.00333	.000	1

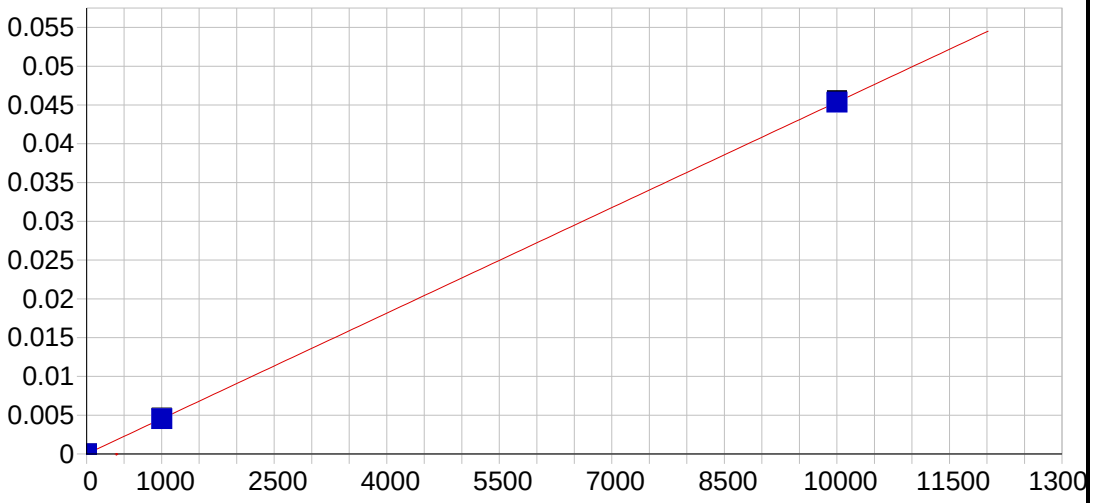


Co 228.616 {447}

Date of Fit:	11/19/2010 09:55:50	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000005	Re-Slope:	1.000000
A1 (Gain):	0.000016	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999696	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.778882		
Predicted MQL:	2.596274		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00005	.000	.000	.00000	.000	1
CalibStd=50	50.000	51.963	1.96	3.93	.00069	.000	1
CalibStd=10	10.000	11.026	1.03	10.3	.00015	.000	1
CalibStd=5	5.0000	5.4293	.429	8.59	.00008	.000	1
CalibStd=1	1.0000	.79467	-.205	-20.5	.00002	.000	1
CalibStd=100	100.00	103.80	3.80	3.80	.00138	.000	1
CalibStd=100	1000.0	993.04	-6.96	-.696	.01302	.000	1

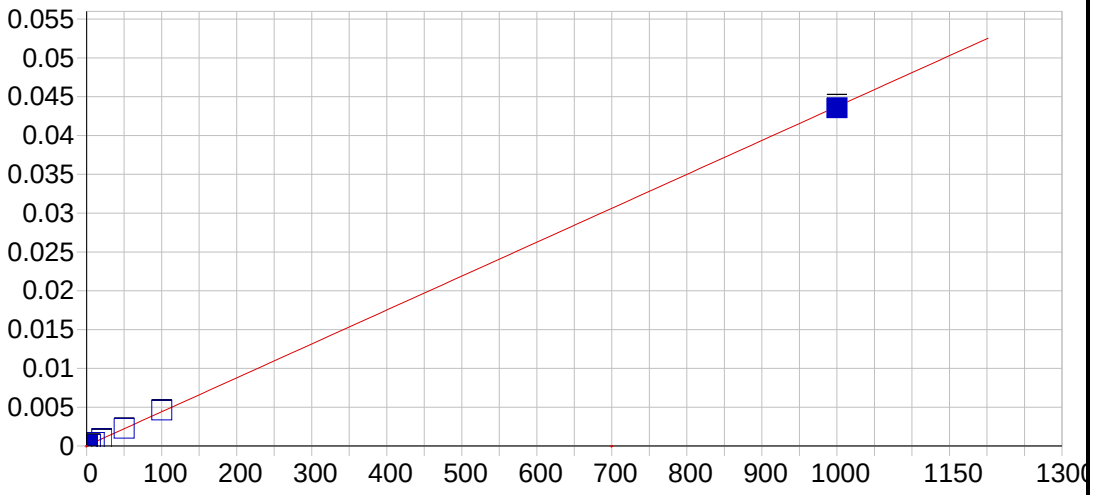


Co 238.892 {141}

Date of Fit:	11/19/2010 10:01:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000003	Re-Slope:	1.000000
A1 (Gain):	0.000005	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	7.988738		
Predicted MQL:	26.629128		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00098	-.001	.000	.00000	.000	1
CalibStd=100	1000.0	1001.1	1.09	.109	.00454	.000	1
CalibStd=100	10000.	9998.9	-1.09	-.011	.04530	.000	1

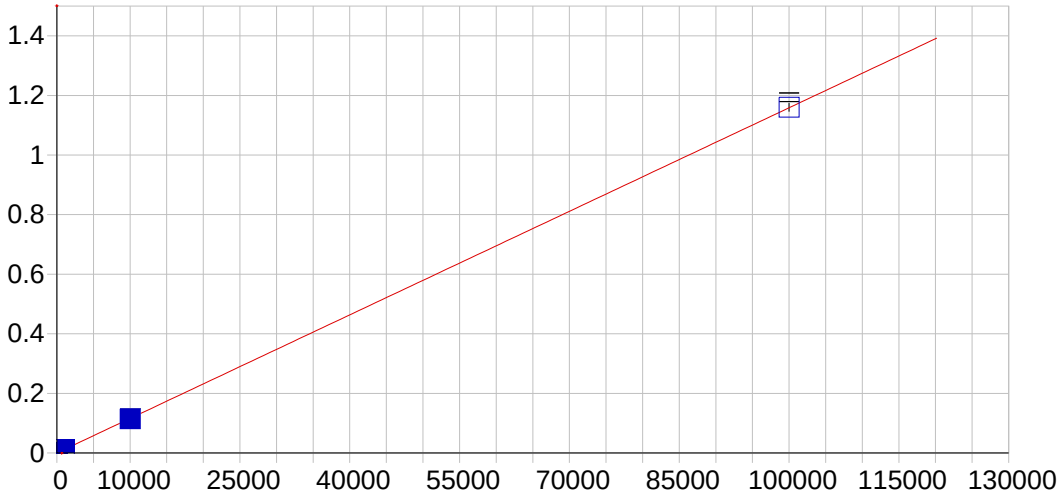


Cr 267.716 {126}

Date of Fit:	11/19/2010 09:55:50	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000033	Re-Slope:	1.000000
A1 (Gain):	0.000044	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999537	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	1.636688		
Predicted MQL:	5.455625		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00096	.001	.000	.00003	.000	1
CalibStd=10	10.000	9.1716	-.828	-8.28	.00043	.000	1
CalibStd=5	5.0000	4.2885	-.712	-14.2	.00022	.000	1
CalibStd=1	1.0000	.20271	-.797	-79.7	.00004	.000	1
CalibStd=50	50.000	51.156	1.16	2.31	.00227	.000	1
CalibStd=100	1000.0	996.22	-3.78	-.378	.04357	.000	1
CalibStd=20	20.000	19.945	-.055	-.274	.00091	.000	1
CalibStd=100	100.00	105.01	5.01	5.01	.00462	.000	1

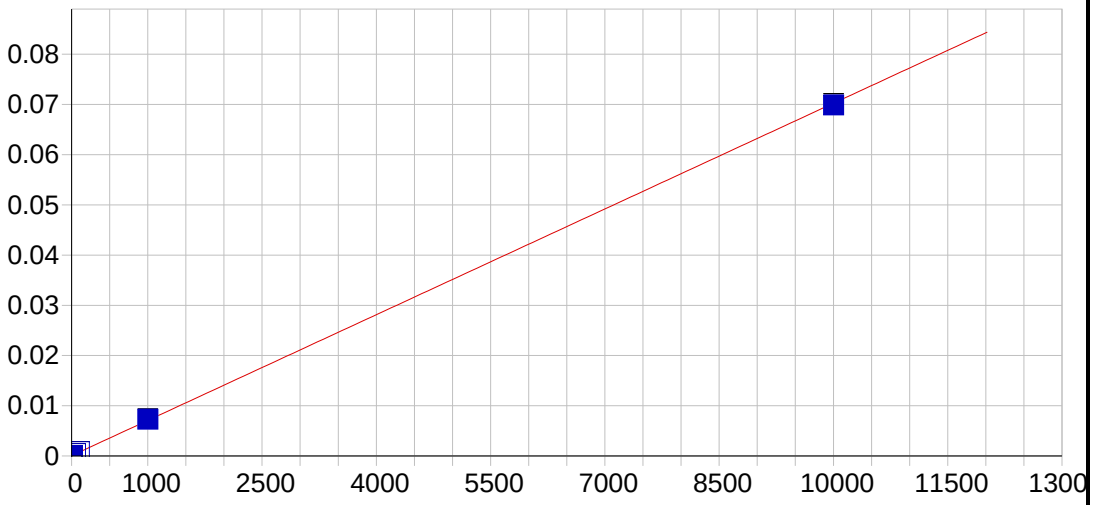


Cr 283.563 {119}

Date of Fit:	11/19/2010 10:07:29	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000032	Re-Slope:	1.000000
A1 (Gain):	0.000012	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999991	Status:	OK.
Std Error of Est:	0.000004		
Predicted MDL:	5.913434		
Predicted MQL:	19.711447		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00108	-.001	.000	.00003	.000	1
CalibStd=50	50.000	48.939	-1.06	-2.12	.00060	.000	1
CalibStd=100	100.00	105.27	5.27	5.27	.00125	.000	1
CalibStd=100	1000.0	1001.2	1.24	.124	.01165	.000	1
CalibStd=100	10000.	9876.7	-123.	-1.23	.11462	.000	1
CalibStd-100	100000.	100120.	118.	.118	1.1600	.015	1

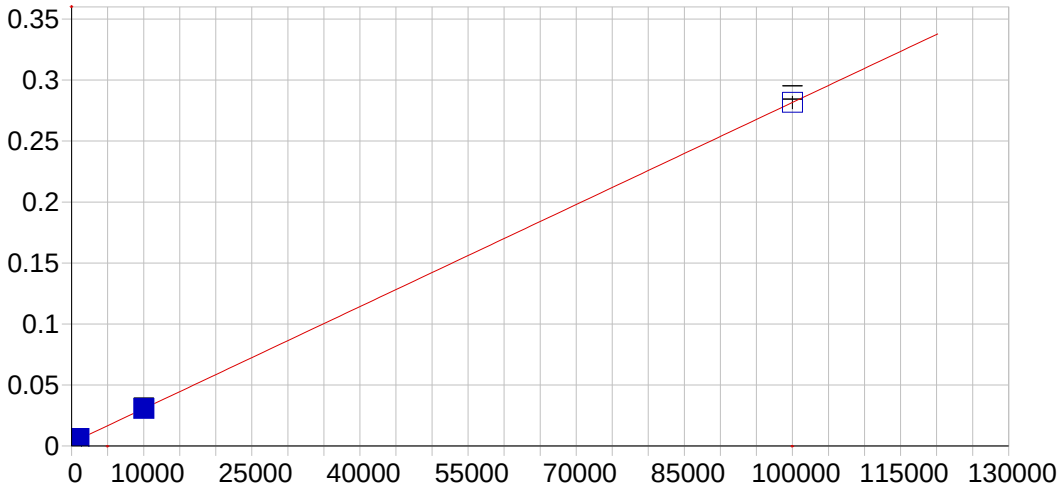


Cu 224.700 {450}

Date of Fit:	11/19/2010 10:01:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000057	Re-Slope:	1.000000
A1 (Gain):	0.000007	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999820	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	1.856968		
Predicted MQL:	6.189893		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00329	-.003	.000	.00006	.000	1
CalibStd=100	1000.0	1030.8	30.8	3.08	.00729	.000	1
CalibStd=50	50.000	56.924	6.92	13.8	.00046	.000	1
CalibStd=100	100.00	111.17	11.2	11.2	.00084	.000	1
CalibStd=5	5.0000	5.8485	.849	17.0	.00010	.000	1
CalibStd=10	10.000	12.118	2.12	21.2	.00014	.000	1
CalibStd=100	10000.	9948.2	-51.8	-.518	.06990	.000	1

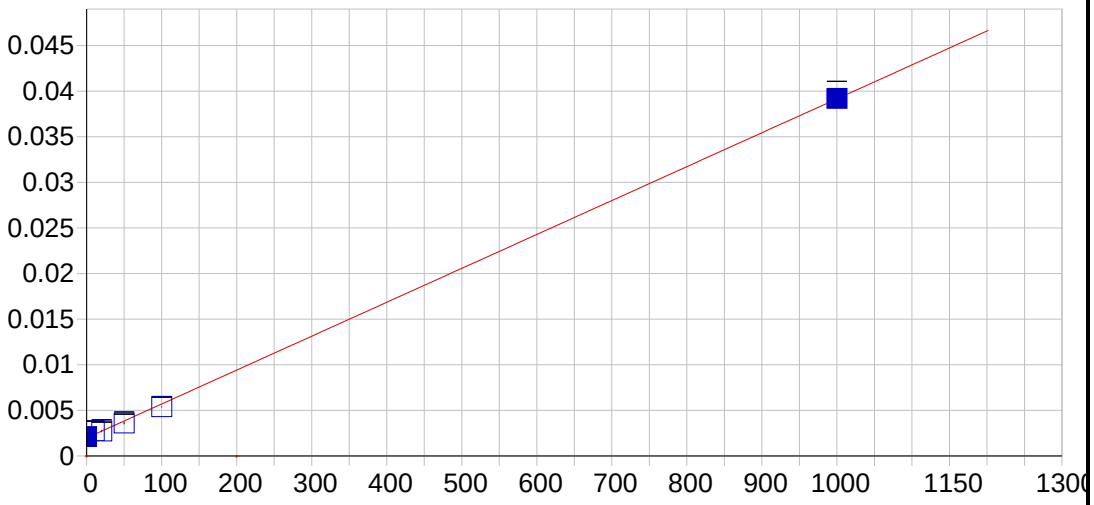


Cu 324.754 {104}

Date of Fit:	11/19/2010 10:07:29	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.002672	Re-Slope:	1.000000
A1 (Gain):	0.000003	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999993	Status:	OK.
Std Error of Est:	0.000610		
Predicted MDL:	32.871242		
Predicted MQL:	109.570806		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-227.84	-228.	.000	.00204	.000	1
CalibStd=100	10000.	10025.	24.9	.249	.03064	.000	1
CalibStd-100	100000.	99995.	-4.56	-.005	.28166	.005	1
CalibStd=100	1000.0	1207.5	208.	20.8	.00604	.000	1

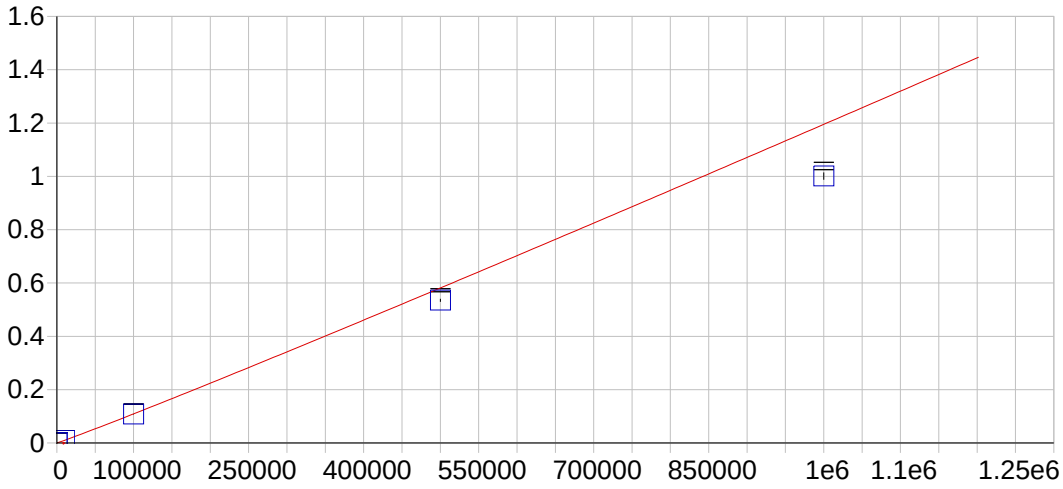


Cu 327.396 {103}

Date of Fit:	11/19/2010 09:55:50	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.001979	Re-Slope:	1.000000
A1 (Gain):	0.000037	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999848	Status:	OK.
Std Error of Est:	0.000287		
Predicted MDL:	4.993249		
Predicted MQL:	16.644164		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	3.5451	3.55	.000	.00211	.000	1
CalibStd=20	20.000	20.022	.022	.112	.00272	.000	1
CalibStd=50	50.000	43.507	-6.49	-13.0	.00360	.000	1
CalibStd=100	100.00	91.439	-8.56	-8.56	.00538	.000	1
CalibStd=10	10.000	20.410	10.4	104.	.00274	.000	1
CalibStd=100	1000.0	1001.1	1.08	.108	.03920	.001	1

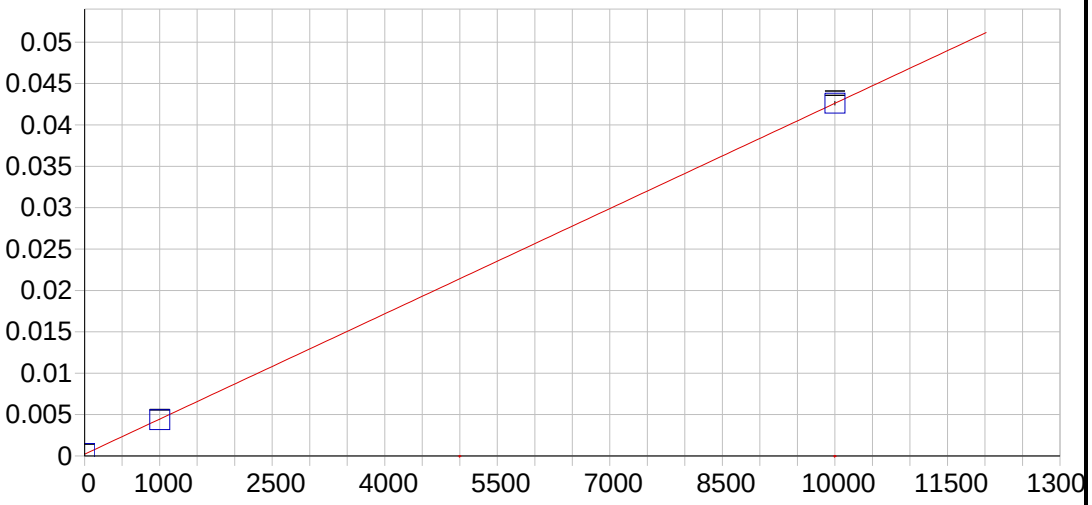


Fe 234.349 {144}

Date of Fit:	11/19/2010 10:25:31	Type of Fit:	Full Fit	Weighting:	1/Conc

A0 (Offset):	0.000079	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.040000		
Correlation:	0.999997	Status:	OK.
Std Error of Est:	0.000006		
Predicted MDL:	59.554381		
Predicted MQL:	198.514603		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.15425	.154	.000	.00008	.000	1
CalibStd=100	10000.	9836.9	-163.	-1.63	.00985	.000	1
CalibStd=500	500000.	461880.	-38100.	-7.62	.53522	.006	1
CalibStd=100	100000.	98825.	-1180.	-1.18	.10773	.001	1
CalibStd-100	1000000.	843240.	-157000.	-15.7	1.0009	.014	1
CalibStd=100	1000.0	908.91	-91.1	-9.11	.00090	.000	1

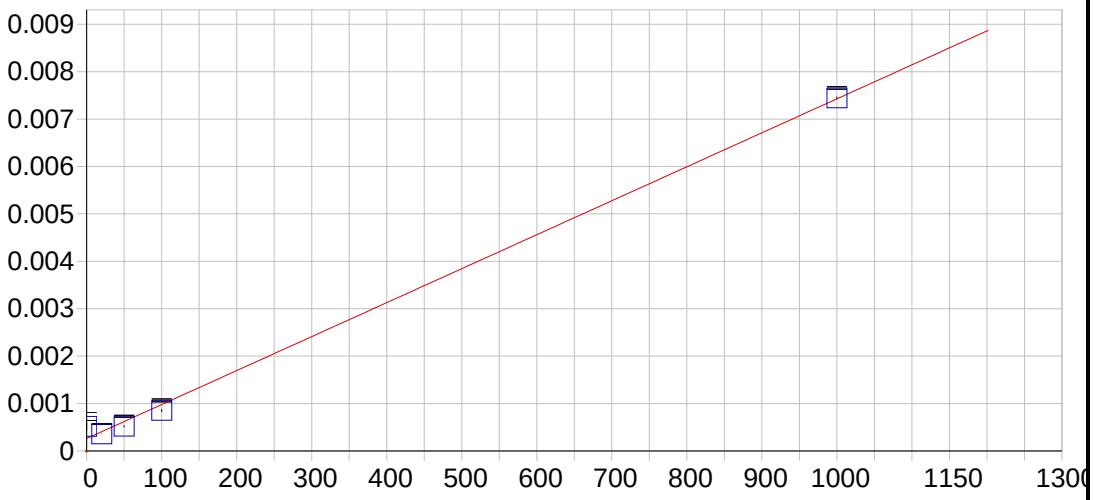


Fe 239.562 {141}

Date of Fit:	11/19/2010 10:01:38	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000214	Re-Slope:	1.000000
A1 (Gain):	0.000004	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999995	Status:	OK.
Std Error of Est:	0.000108		
Predicted MDL:	6.851589		
Predicted MQL:	22.838631		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	16.954	17.0	.000	.00029	.000	1
CalibStd=100	1000.0	981.16	-18.8	-1.88	.00437	.000	1
CalibStd=100	10000.	10002.	1.88	.019	.04262	.000	1

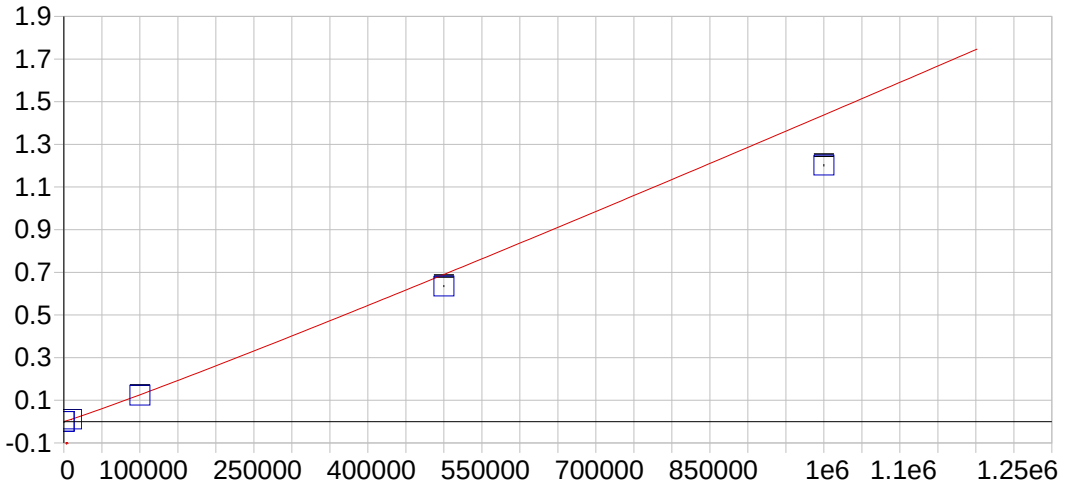


Fe 259.940 {130}

Date of Fit:	11/22/2010 08:35:21	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000262	Re-Slope:	1.000000
A1 (Gain):	0.000007	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998778	Status:	OK.
Std Error of Est:	0.000176		
Predicted MDL:	7.379404		
Predicted MQL:	24.598015		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	35.459	35.5	.000	.00052	.000	1
CalibStd=100	1000.0	1002.6	2.58	.258	.00745	.000	1
CalibStd=50	50.000	36.076	-13.9	-27.8	.00052	.000	1
CalibStd=100	100.00	82.447	-17.6	-17.6	.00085	.000	1
CalibStd=20	20.000	13.435	-6.56	-32.8	.00036	.000	1

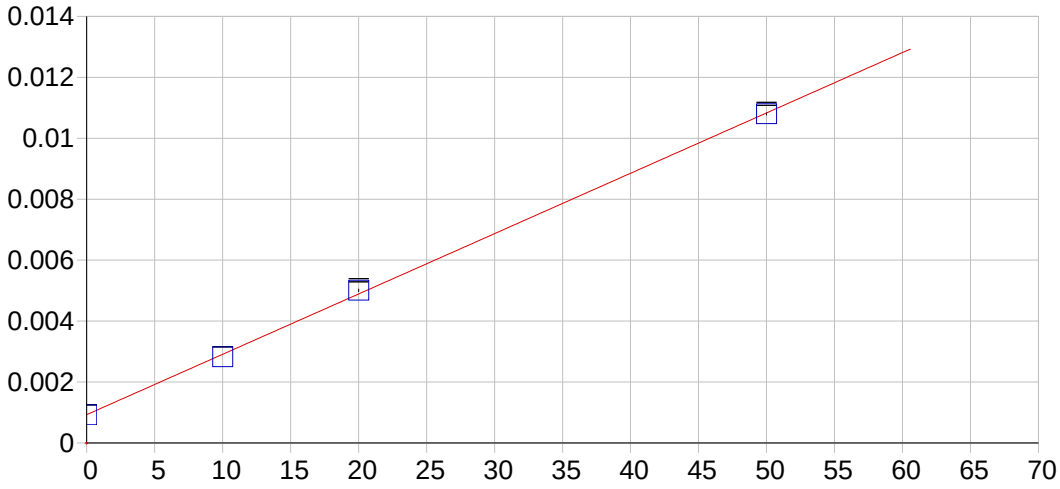


Mg 279.079 {121}

Date of Fit:	11/19/2010 10:25:31	Type of Fit:	Full Fit	Weighting:	None

A0 (Offset):	0.000418	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.060000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000514		
Predicted MDL:	101.517204		
Predicted MQL:	338.390681		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00000	.000	1
CalibStd=100	100000.	98688.	-1310.	-1.31	.12386	.000	1
CalibStd=500	500000.	462780.	-37200.	-7.44	.63554	.005	1
CalibStd=100	10000.	10479.	479.	4.79	.01188	.000	1
CalibStd-100	1000000.	844490.	-156000.	-15.6	1.2020	.006	1
CalibStd=100	1000.0	822.24	-178.	-17.8	.00119	.000	1

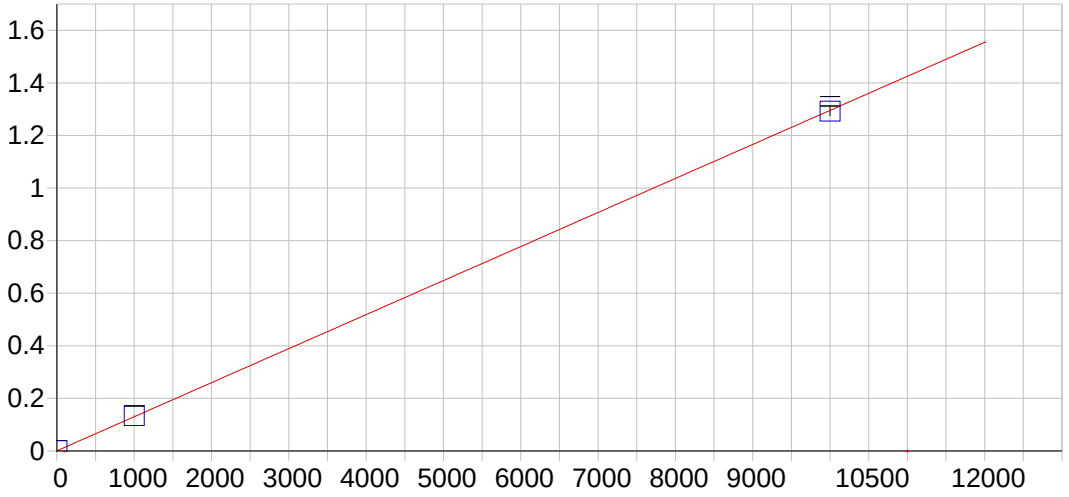


Mg 279.553 {121}

Date of Fit:	11/19/2010 09:45:25	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000928	Re-Slope:	1.000000
A1 (Gain):	0.000198	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999797	Status:	OK.
Std Error of Est:	0.000106		
Predicted MDL:	0.169631		
Predicted MQL:	0.565436		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.03419	-.034	.000	.00092	.000	1
CalibStd=50	50.000	49.839	-.161	-.321	.01080	.000	1
CalibStd=20	20.000	20.608	.608	3.04	.00501	.000	1
CalibStd=10	10.000	9.5866	-.413	-4.13	.00283	.000	1

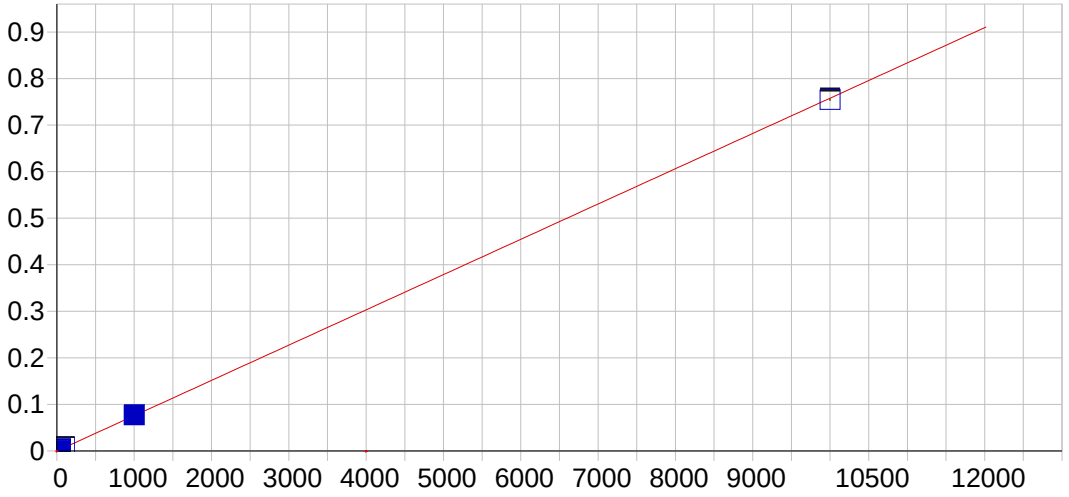


Mg 280.270 {120}

Date of Fit:	11/19/2010 10:01:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000713	Re-Slope:	1.000000
A1 (Gain):	0.000129	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999964	Status:	OK.
Std Error of Est:	0.000199		
Predicted MDL:	0.346747		
Predicted MQL:	1.155825		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.02412	-.024	.000	.00071	.000	1
CalibStd=100	1000.0	1026.8	26.8	2.68	.13368	.001	1
CalibStd=100	10000.	9973.2	-26.8	-.268	1.2922	.018	1

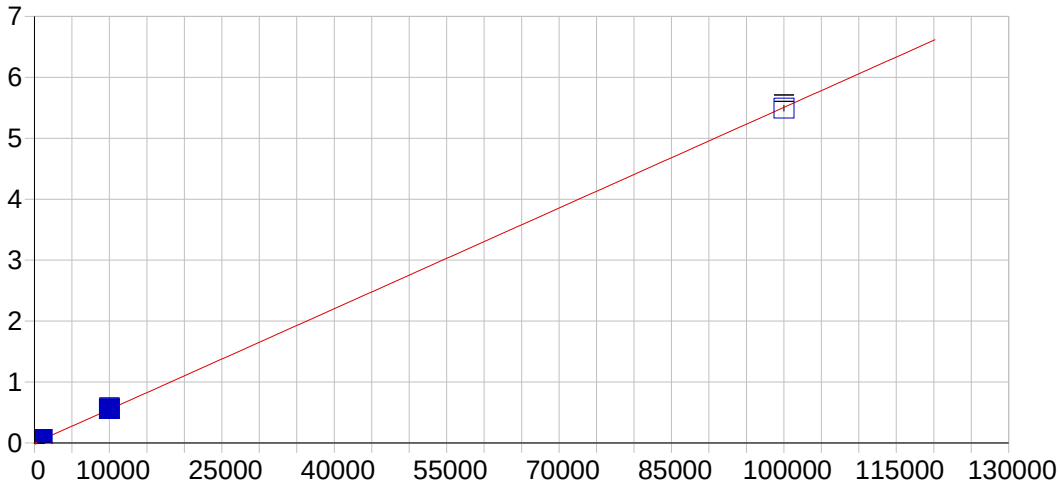


Mn 257.610 {131}

Date of Fit:	11/19/2010 10:01:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000007	Re-Slope:	1.000000
A1 (Gain):	0.000076	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999886	Status:	OK.
Std Error of Est:	0.000004		
Predicted MDL:	0.863768		
Predicted MQL:	2.879228		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00038	.000	.000	.00001	.000	1
CalibStd=10	10.000	10.950	.950	9.50	.00084	.000	1
CalibStd=50	50.000	54.773	4.77	9.55	.00416	.000	1
CalibStd=20	20.000	21.968	1.97	9.84	.00167	.000	1
CalibStd=100	100.00	110.94	10.9	10.9	.00841	.000	1
CalibStd=5	5.0000	5.0642	.064	1.28	.00039	.000	1
CalibStd=1	1.0000	.95384	-.046	-4.62	.00008	.000	1
CalibStd=100	1000.0	1021.4	21.4	2.14	.07741	.001	1
CalibStd=100	10000.	9960.0	-40.0	-.400	.75479	.003	1

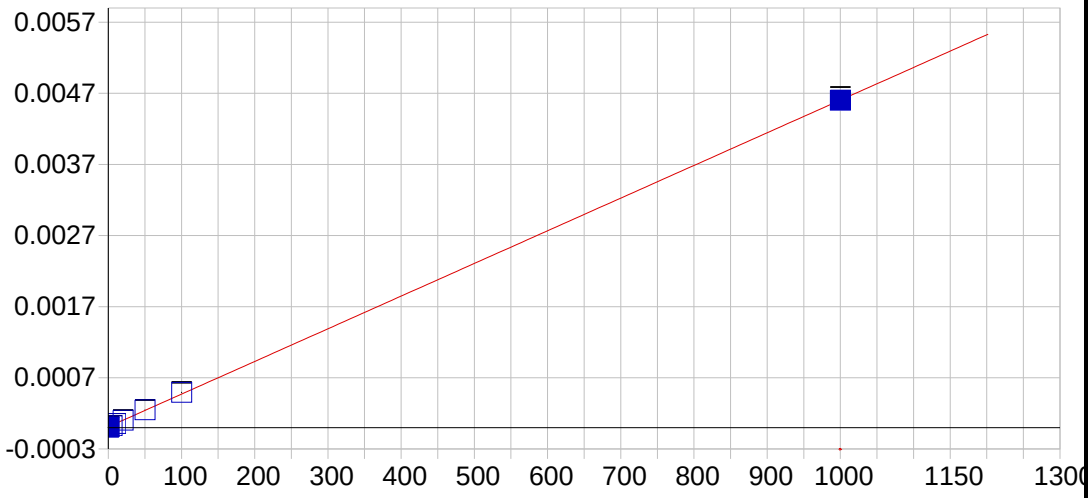


Mn 259.373 {130}

Date of Fit:	11/19/2010 10:07:29	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000051	Re-Slope:	1.000000
A1 (Gain):	0.000055	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999970	Status:	OK.
Std Error of Est:	0.000200		
Predicted MDL:	1.150590		
Predicted MQL:	3.835299		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.05477	-.055	.000	.00005	.000	1
CalibStd=100	10000.	10217.	217.	2.17	.56558	.003	1
CalibStd-100	100000.	99746.	-254.	-.254	5.4931	.051	1
CalibStd=100	1000.0	1035.6	35.6	3.56	.05737	.000	1

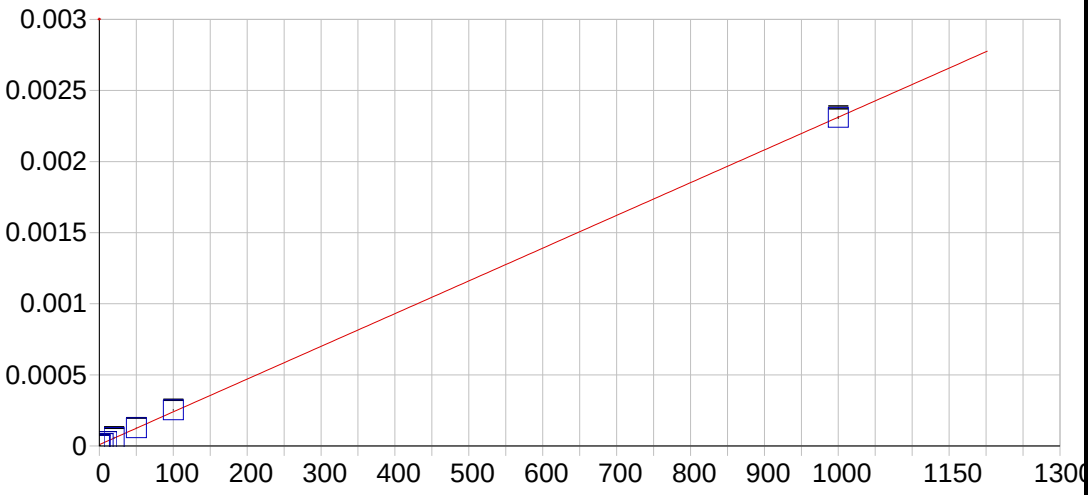


Mo 202.030 {467}

Date of Fit:	11/19/2010 09:55:50	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000012	Re-Slope:	1.000000
A1 (Gain):	0.000005	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999975	Status:	OK.
Std Error of Est:	0.000012		
Predicted MDL:	1.831375		
Predicted MQL:	6.104584		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-1.9551	-1.96	.000	.00000	.000	1
CalibStd=50	50.000	51.759	1.76	3.52	.00025	.000	1
CalibStd=1	1.0000	-.60113	-1.60	-160.	.00001	.000	1
CalibStd=20	20.000	20.004	.004	.021	.00010	.000	1
CalibStd=10	10.000	9.2848	-.715	-7.15	.00005	.000	1
CalibStd=100	100.00	105.23	5.23	5.23	.00050	.000	1
CalibStd=5	5.0000	2.8707	-2.13	-42.6	.00002	.000	1
CalibStd=100	1000.0	999.41	-.592	-.059	.00460	.000	1

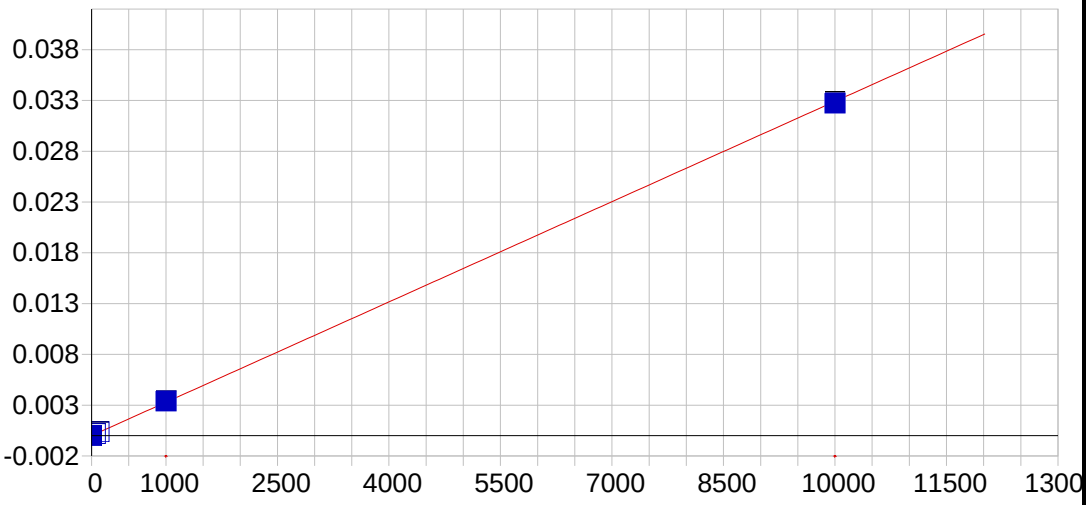


Mo 203.844 {465}

Date of Fit:	11/19/2010 09:55:50	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000009	Re-Slope:	1.000000
A1 (Gain):	0.000002	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999968	Status:	OK.
Std Error of Est:	0.000007		
Predicted MDL:	3.745062		
Predicted MQL:	12.483540		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-1.7304	-1.73	.000	.00001	.000	1
CalibStd=50	50.000	51.210	1.21	2.42	.00013	.000	1
CalibStd=1	1.0000	-1.2510	-2.25	-225.	.00001	.000	1
CalibStd=20	20.000	21.247	1.25	6.23	.00006	.000	1
CalibStd=10	10.000	8.7011	-1.30	-13.0	.00003	.000	1
CalibStd=100	100.00	105.84	5.84	5.84	.00025	.000	1
CalibStd=5	5.0000	2.6282	-2.37	-47.4	.00002	.000	1
CalibStd=100	1000.0	999.36	-.642	-.064	.00231	.000	1

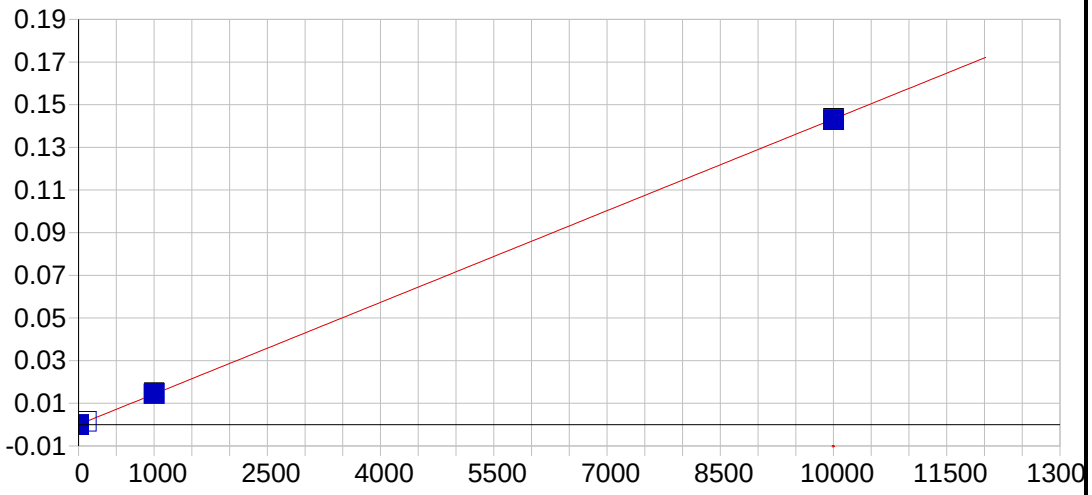


Mo 204.598 {465}

Date of Fit:	11/19/2010 10:01:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000002	Re-Slope:	1.000000
A1 (Gain):	0.000003	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999832	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	2.908810		
Predicted MQL:	9.696033		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.01425	-.014	.000	.00000	.000	1
CalibStd=100	1000.0	1034.1	34.1	3.41	.00340	.000	1
CalibStd=100	10000.	9947.4	-52.6	-.526	.03274	.000	1
CalibStd=50	50.000	57.156	7.16	14.3	.00019	.000	1
CalibStd=100	100.00	111.30	11.3	11.3	.00036	.000	1

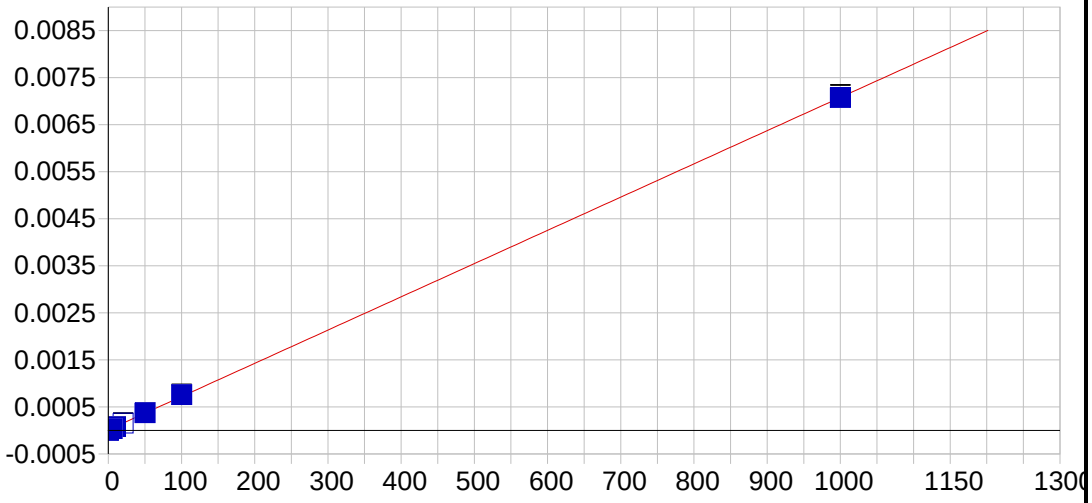


Ni 221.647 {452}

Date of Fit:	11/19/2010 10:01:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000004	Re-Slope:	1.000000
A1 (Gain):	0.000014	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999962	Status:	OK.
Std Error of Est:	0.000006		
Predicted MDL:	1.189901		
Predicted MQL:	3.966336		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00882	-.009	.000	.00000	.000	1
CalibStd=100	10000.	9977.9	-22.1	-.221	.14299	.000	1
CalibStd=100	100.00	107.59	7.59	7.59	.00155	.000	1
CalibStd=100	1000.0	1014.5	14.5	1.45	.01454	.000	1

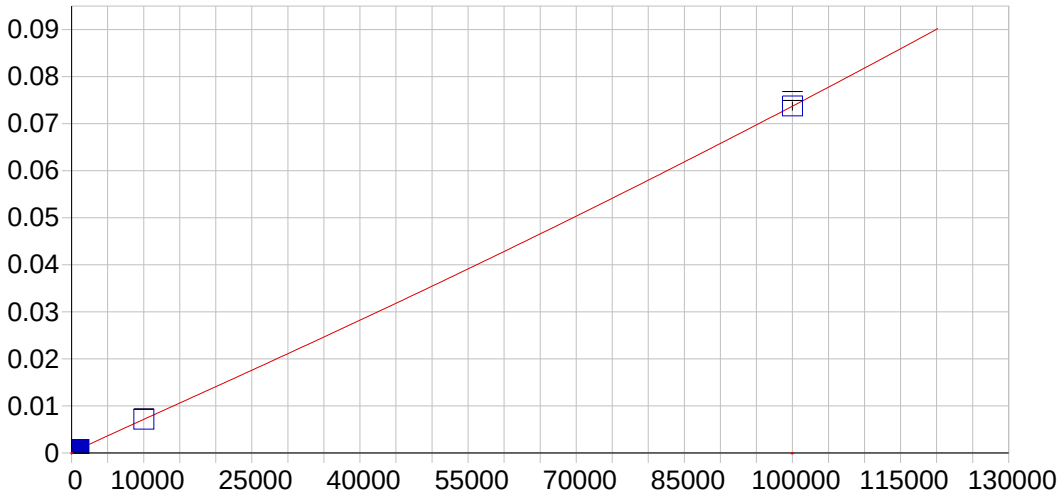


Ni 231.604 {445}

Date of Fit:	11/19/2010 09:55:50	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000013	Re-Slope:	1.000000
A1 (Gain):	0.000007	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999973	Status:	OK.
Std Error of Est:	0.000021		
Predicted MDL:	1.827872		
Predicted MQL:	6.092908		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-2.2584	-2.26	.000	.00000	.000	1
CalibStd=50	50.000	50.931	.931	1.86	.00037	.000	1
CalibStd=20	20.000	19.699	-.301	-1.50	.00015	.000	1
CalibStd=10	10.000	8.6034	-1.40	-14.0	.00007	.000	1
CalibStd=100	100.00	105.63	5.63	5.63	.00076	.000	1
CalibStd=5	5.0000	2.9728	-2.03	-40.5	.00003	.000	1
CalibStd=100	1000.0	999.42	-.580	-.058	.00708	.000	1

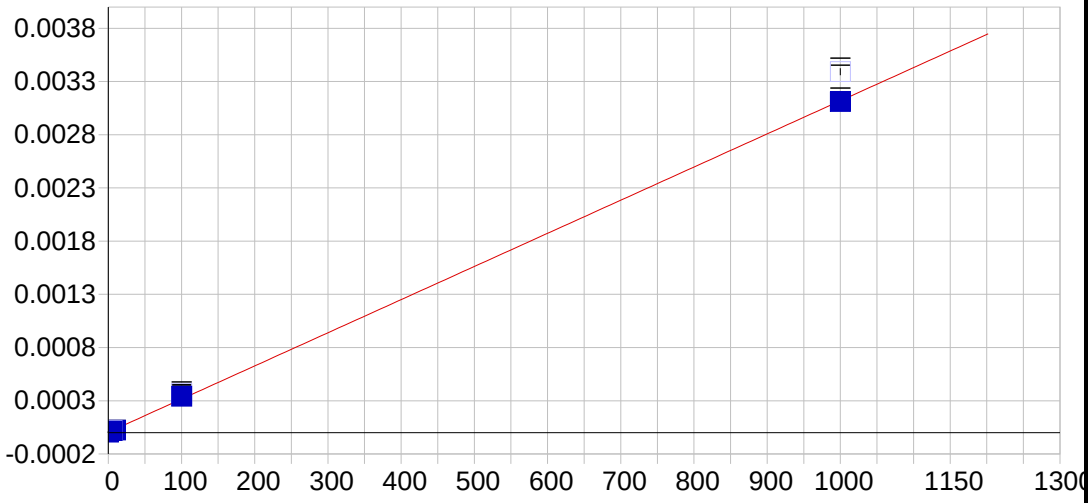


Pb 216.999 {455}

Date of Fit:	11/19/2010 10:07:29	Type of Fit:	Full Fit	Weighting:	None

A0 (Offset):	0.000009	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	0.960000		
Correlation:	1.000000	Status:	Warning Positive Curvature
Std Error of Est:	0.000000		
Predicted MDL:	14.862636		
Predicted MQL:	49.542121		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.20284	.203	.000	.00001	.000	1
CalibStd=100	1000.0	999.66	-.336	-.034	.00078	.000	1
CalibStd=100	10000.	10000.	.044	.000	.00714	.000	1
CalibStd-100	100000.	100000.	.000	.000	.07373	.001	1

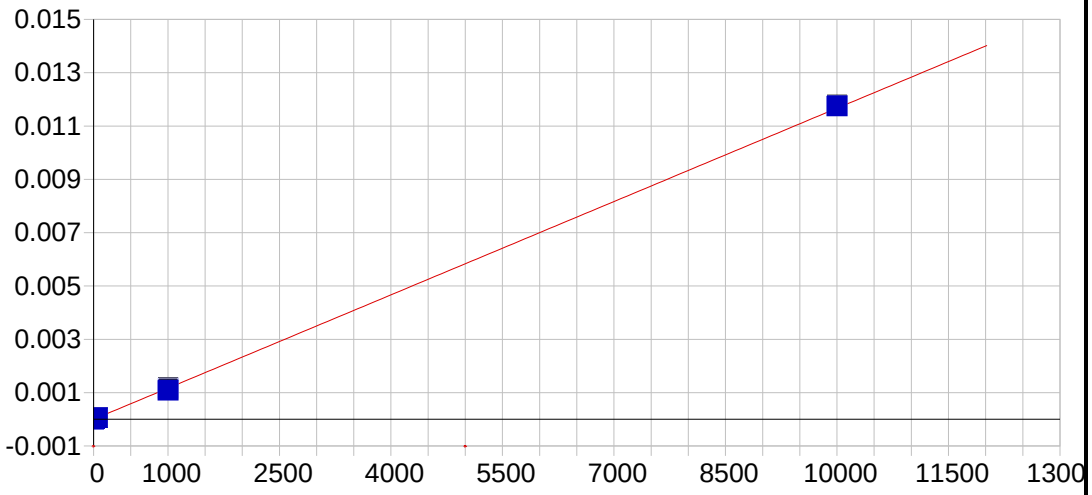


Pb 220.353 {453}

Date of Fit:	11/19/2010 09:55:50	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000004	Re-Slope:	1.000000
A1 (Gain):	0.000003	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999078	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	5.326749		
Predicted MQL:	17.755828		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00296	.003	.000	.00000	.000	1
CalibStd=10	10.000	6.3421	-3.66	-36.6	.00003	.000	1
CalibStd=100	100.00	107.99	7.99	7.99	.00037	.000	1
CalibStd=5	5.0000	3.4833	-1.52	-30.3	.00002	.000	1
CalibStd=100	1000.0	997.19	-2.81	-.281	.00339	.000	1

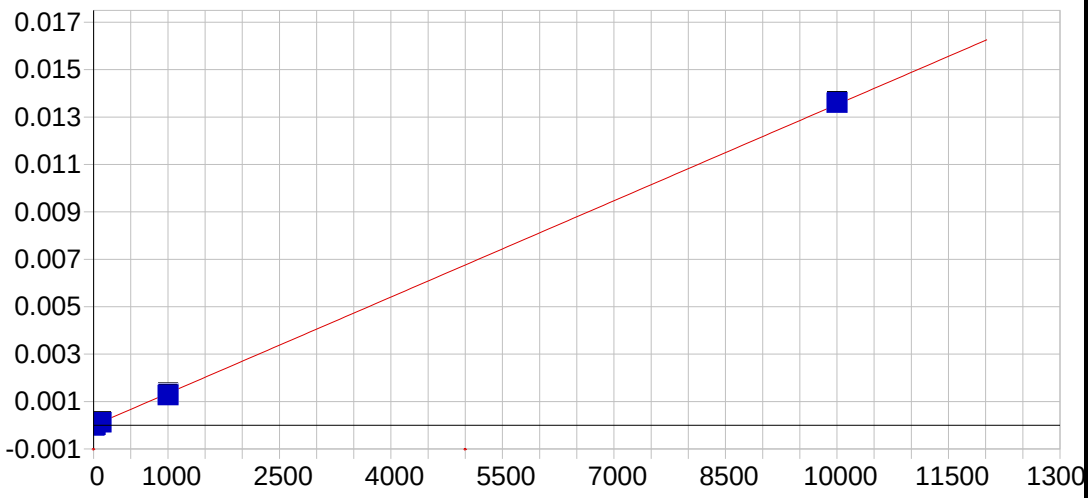


Sb 206.833 {463}

Date of Fit:	11/19/2010 10:01:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999757	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	8.929338		
Predicted MQL:	29.764461		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00022	.000	.000	.00000	.000	1
CalibStd=100	1000.0	932.78	-67.2	-6.72	.00117	.000	1
CalibStd=10	10.000	11.429	1.43	14.3	.00001	.000	1
CalibStd=50	50.000	46.968	-3.03	-6.06	.00006	.000	1
CalibStd=100	10000.	10074.	73.6	.736	.01175	.000	1

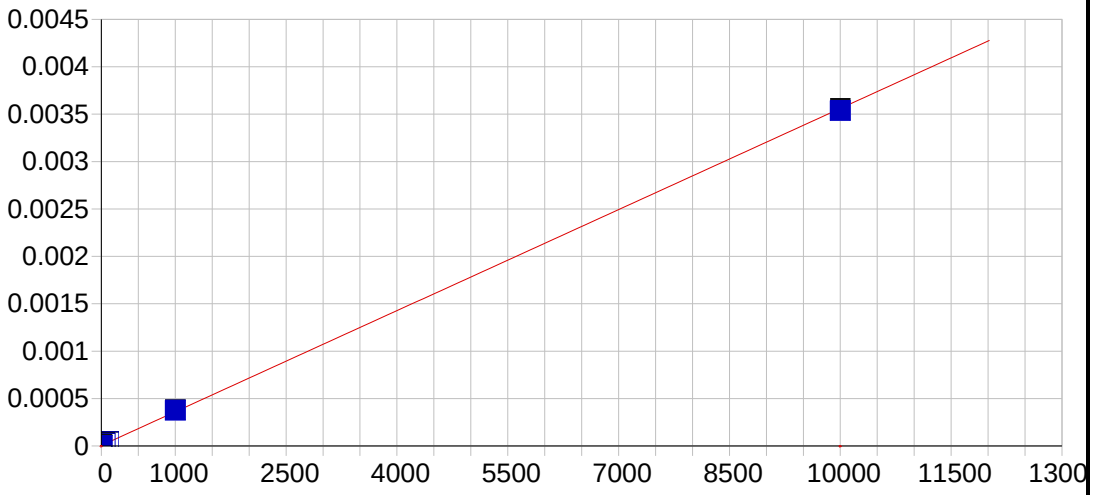


Sb 217.581 {455}

Date of Fit:	11/19/2010 10:01:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000007	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999849	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	11.286894		
Predicted MQL:	37.622979		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00241	.002	.000	-.00001	.000	1
CalibStd=100	1000.0	947.38	-52.6	-5.26	.00134	.000	1
CalibStd=20	20.000	18.047	-1.95	-9.76	.00002	.000	1
CalibStd=10	10.000	8.9923	-1.01	-10.1	.00001	.000	1
CalibStd=100	100.00	100.47	.472	.472	.00014	.000	1
CalibStd=100	10000.	10058.	57.9	.579	.01361	.000	1

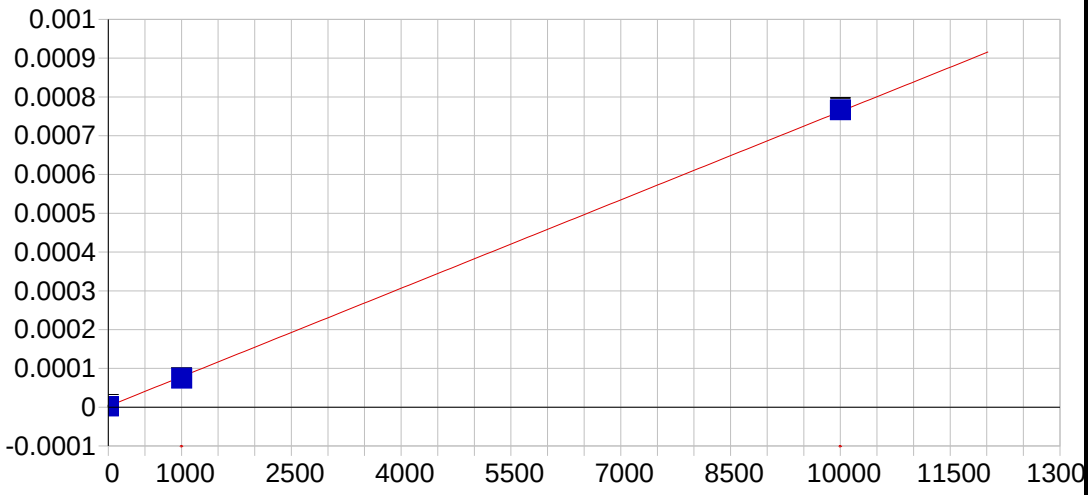


Se 196.090 {472}

Date of Fit:	11/19/2010 10:01:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000005	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999503	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	20.775374		
Predicted MQL:	69.251247		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00319	.003	.000	.00000	.000	1
CalibStd=50	50.000	62.295	12.3	24.6	.00003	.000	1
CalibStd=100	1000.0	1045.2	45.2	4.52	.00038	.000	1
CalibStd=5	5.0000	.60644	-4.39	-87.9	.00000	.000	1
CalibStd=10	10.000	8.3467	-1.65	-16.5	.00001	.000	1
CalibStd=100	100.00	112.20	12.2	12.2	.00004	.000	1
CalibStd=100	10000.	9936.3	-63.7	-.637	.00354	.000	1

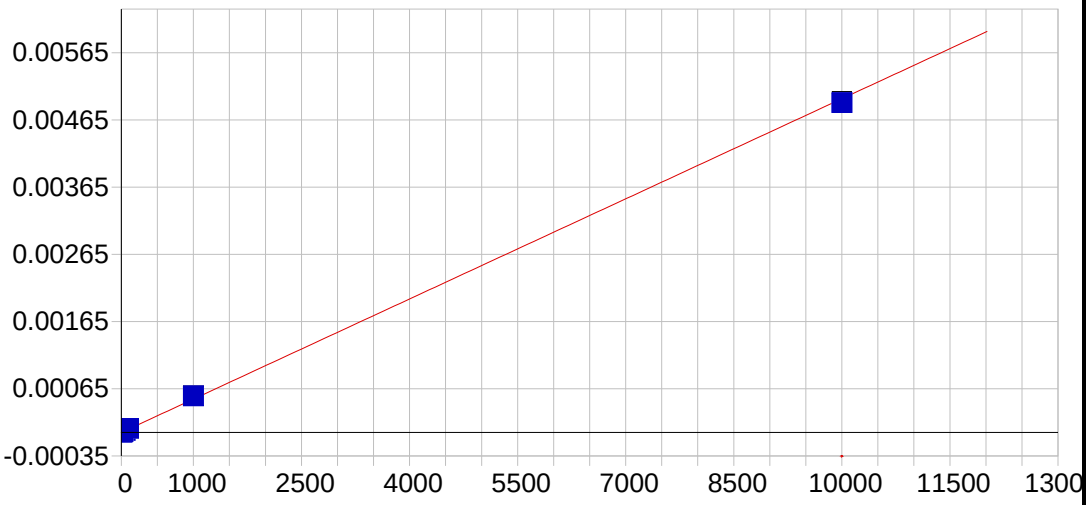


Se 206.279 {463}

Date of Fit:	11/19/2010 10:01:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000003	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999861	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	115.247644		
Predicted MQL:	384.158815		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.04741	.047	.000	.00000	.000	1
CalibStd=100	1000.0	947.33	-52.7	-5.27	.00007	.000	1
CalibStd=100	10000.	10053.	52.7	.527	.00077	.000	1

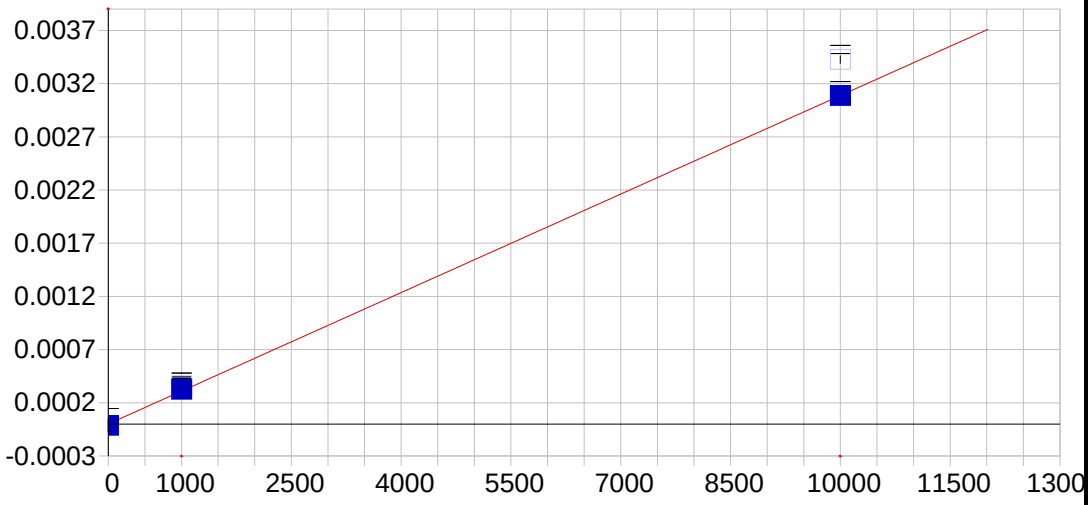


Tl 190.856 {477}

Date of Fit:	11/19/2010 10:01:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999258	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	16.881577		
Predicted MQL:	56.271922		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00401	-.004	.000	.00000	.000	1
CalibStd=50	50.000	56.611	6.61	13.2	.00003	.000	1
CalibStd=100	1000.0	1094.8	94.8	9.48	.00054	.000	1
CalibStd=20	20.000	16.057	-3.94	-19.7	.00001	.000	1
CalibStd=100	100.00	120.53	20.5	20.5	.00006	.000	1
CalibStd=10	10.000	11.782	1.78	17.8	.00001	.000	1
CalibStd=100	10000.	9880.3	-120.	-1.20	.00491	.000	1

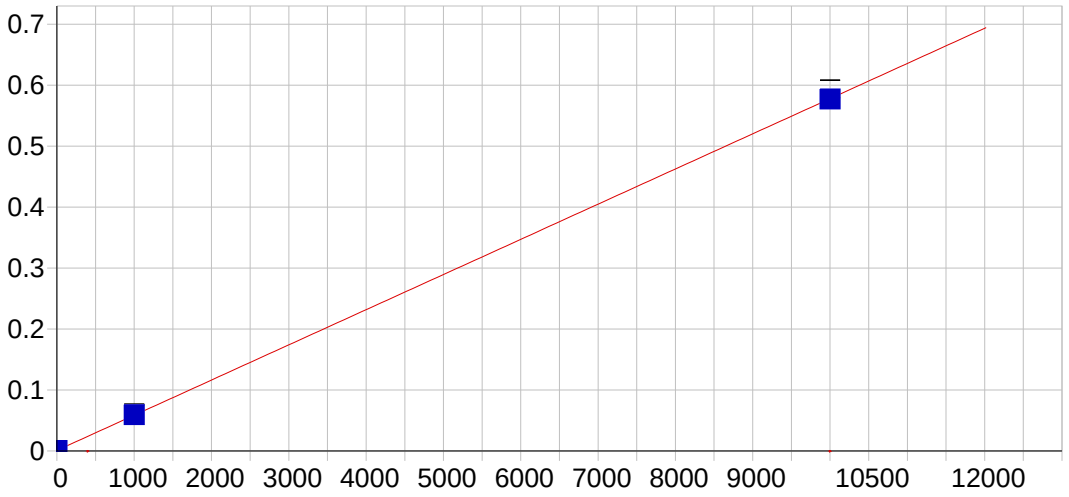


Tl 276.787 {122}

Date of Fit:	11/19/2010 10:01:38	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000001	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999970	Status:	OK.
Std Error of Est:	0.000021		
Predicted MDL:	255.056925		
Predicted MQL:	850.189751		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-44.878	-44.9	.000	-.00001	.000	1
CalibStd=100	1000.0	1049.9	49.9	4.99	.00036	.000	1
CalibStd=100	10000.	9995.0	-4.99	-.050	.00343	.000	1

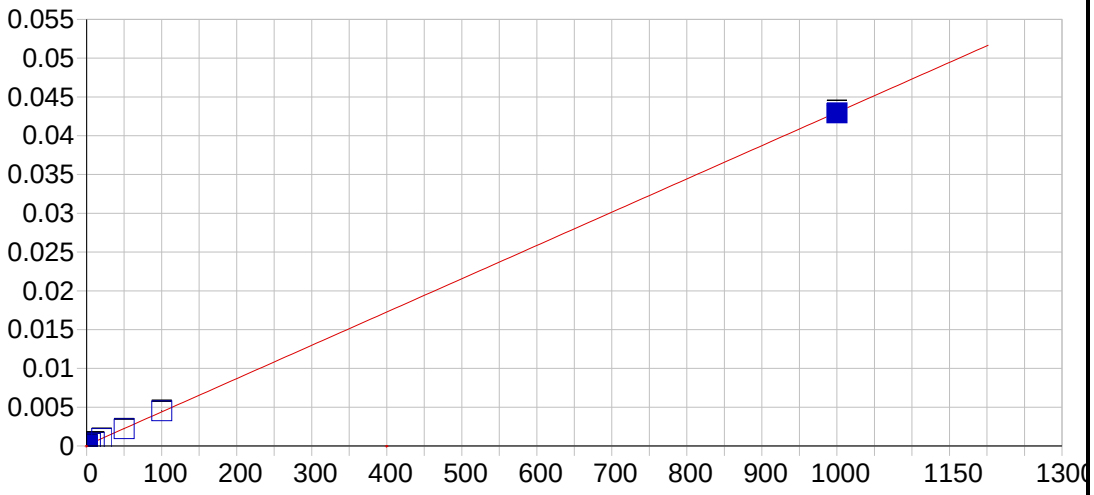


V 290.882 {116}

Date of Fit:	11/19/2010 10:01:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000927	Re-Slope:	1.000000
A1 (Gain):	0.000058	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999992	Status:	OK.
Std Error of Est:	0.000043		
Predicted MDL:	1.788995		
Predicted MQL:	5.963317		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.01160	-.012	.000	.00093	.000	1
CalibStd=100	1000.0	1012.9	12.9	1.29	.05939	.001	1
CalibStd=100	10000.	9987.1	-12.9	-.129	.57732	.014	1

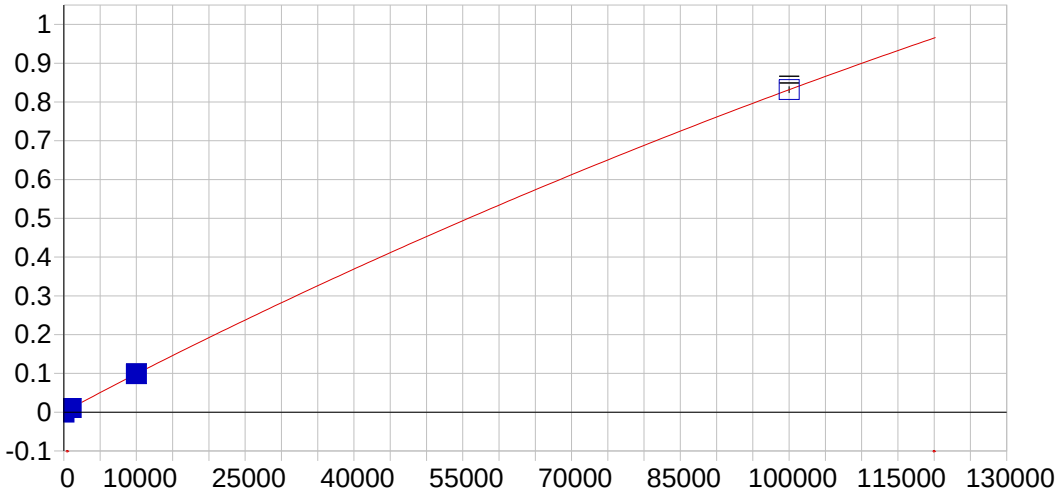


V 292.402 {115}

Date of Fit:	11/19/2010 09:55:50	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000101	Re-Slope:	1.000000
A1 (Gain):	0.000043	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999897	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	2.389161		
Predicted MQL:	7.963868		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00022	.000	.000	.00010	.000	1
CalibStd=50	50.000	49.232	-.768	-1.54	.00221	.000	1
CalibStd=100	1000.0	998.17	-1.83	-.183	.04294	.000	1
CalibStd=1	1.0000	.76187	-.238	-23.8	.00013	.000	1
CalibStd=20	20.000	20.100	.100	.499	.00096	.000	1
CalibStd=5	5.0000	5.3554	.355	7.11	.00033	.000	1
CalibStd=10	10.000	9.2883	-.712	-7.12	.00050	.000	1
CalibStd=100	100.00	103.09	3.09	3.09	.00452	.000	1

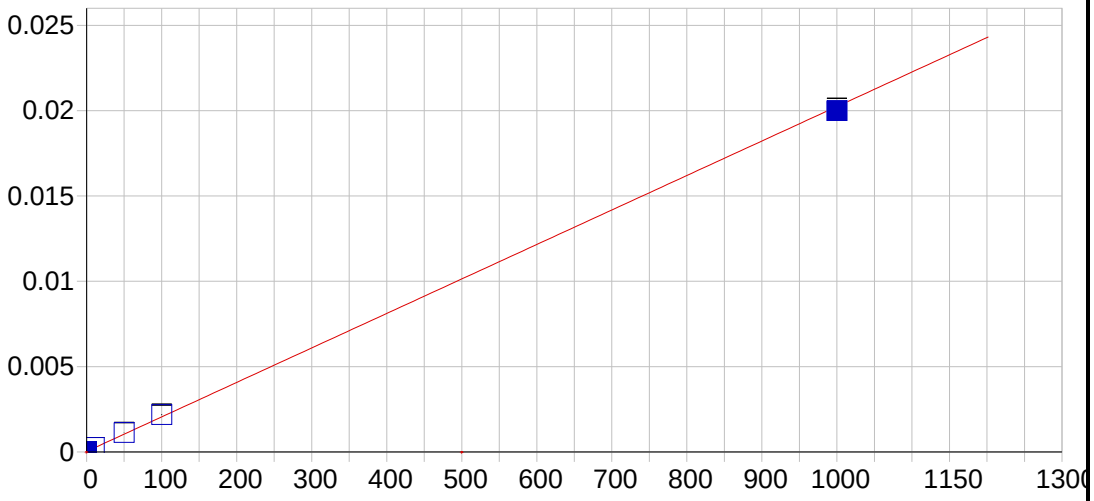


Zn 206.200 {463}

Date of Fit:	11/19/2010 10:07:29	Type of Fit:	Full Fit	Weighting:	None

A0 (Offset):	-0.000013	Re-Slope:	1.000000
A1 (Gain):	0.000012	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	0.980000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.722657		
Predicted MQL:	2.408858		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
CalibStd=100	10000.	10000.	.370	.004	.09881	.000	1
CalibStd-100	100000.	100000.	-.005	.000	.83160	.009	1
Blank	.00000	2.2816	2.28	.000	.00001	.000	1
CalibStd=100	1000.0	997.02	-2.98	-.298	.01043	.000	1

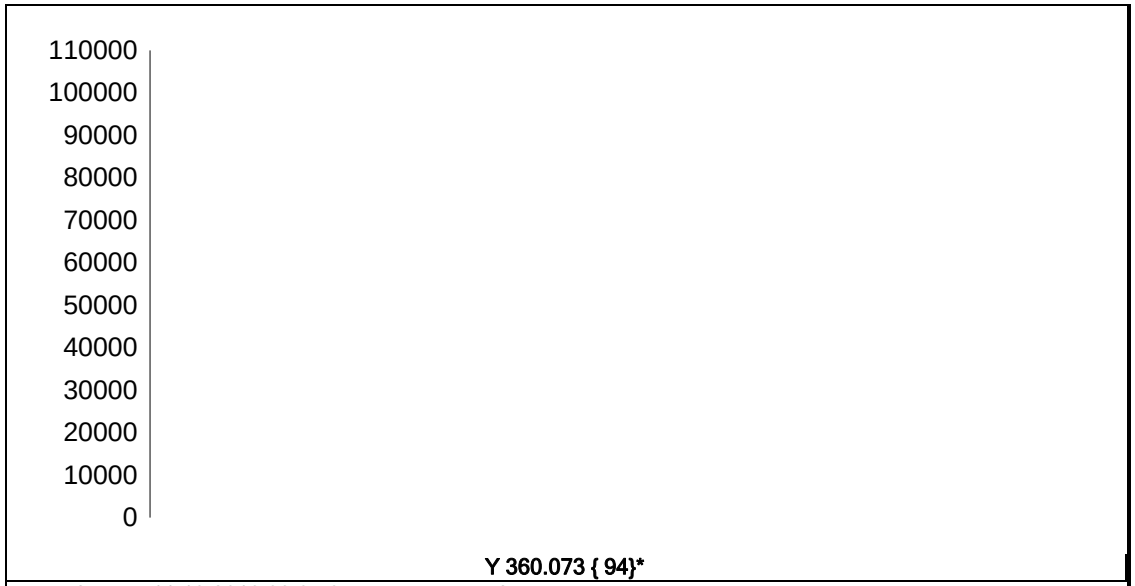


Zn 213.856 {458}

Date of Fit:	11/19/2010 09:55:50	Type of Fit:	Linear	Weighting:	1/Conc

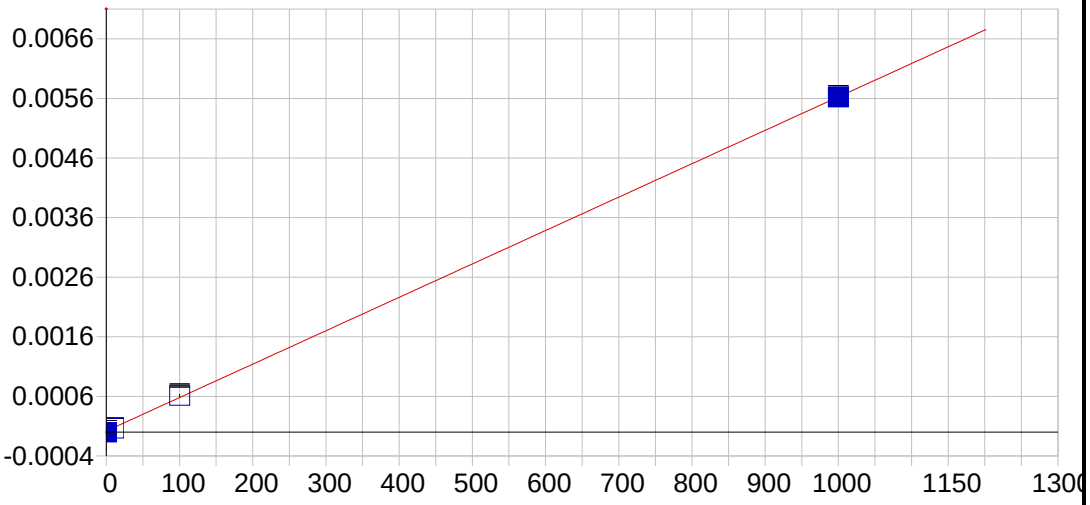
A0 (Offset):	0.000033	Re-Slope:	1.000000
A1 (Gain):	0.000020	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999538	Status:	OK.
Std Error of Est:	0.000003		
Predicted MDL:	0.493507		
Predicted MQL:	1.645022		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00215	-.002	.000	.00003	.000	1
CalibStd=100	100.00	106.68	6.68	6.68	.00219	.000	1
CalibStd=50	50.000	54.676	4.68	9.35	.00114	.000	1
CalibStd=10	10.000	10.668	.668	6.68	.00025	.000	1
CalibStd=100	1000.0	987.97	-12.0	-1.20	.02000	.000	1



Date of Fit:	11/19/2010 09:07:07	Type of Fit:	Linear	Weighting:	None	
A0 (Offset):	0.000000		Re-Slope:	1.000000		
A1 (Gain):	0.000000		Y-int:	0.000000		
A2 (Curvature):	0.000000					
n (Exponent):	1.000000					
Correlation:	0.000000		Status:	Warning	Zero Gain	
Std Error of Est:	0.000000					
Predicted MDL:	n/a					
Predicted MQL:	n/a					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	102210.	1120.	1

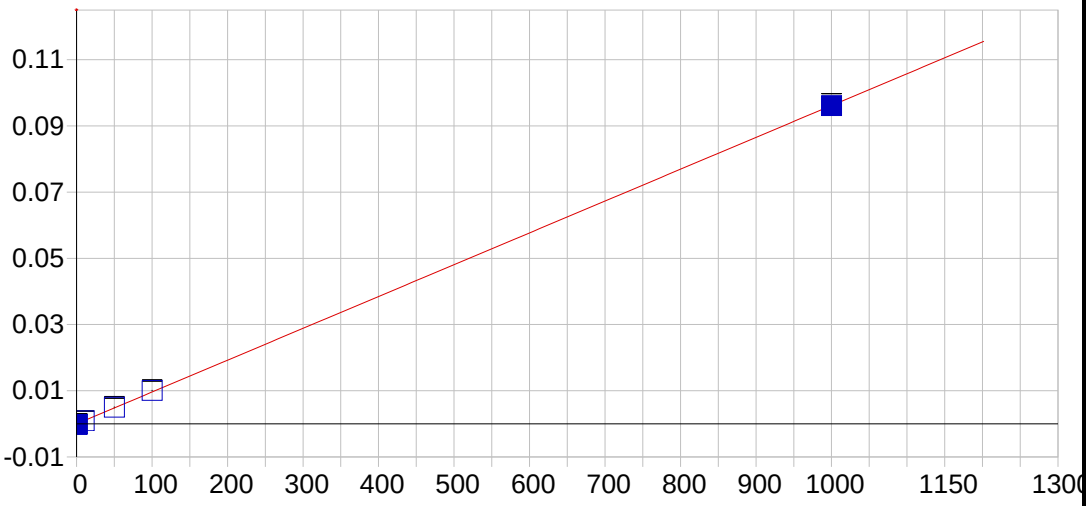


B 249.773 {135}

Date of Fit:	11/19/2010 09:55:50	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000020	Re-Slope:	1.000000
A1 (Gain):	0.000006	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999961	Status:	OK.
Std Error of Est:	0.000029		
Predicted MDL:	9.882118		
Predicted MQL:	32.940395		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-3.4772	-3.48	.000	.00000	.000	1
CalibStd=10	10.000	7.9142	-2.09	-20.9	.00006	.000	1
CalibStd=100	100.00	106.16	6.16	6.16	.00061	.000	1
CalibStd=100	1000.0	999.41	-.595	-.059	.00563	.000	1

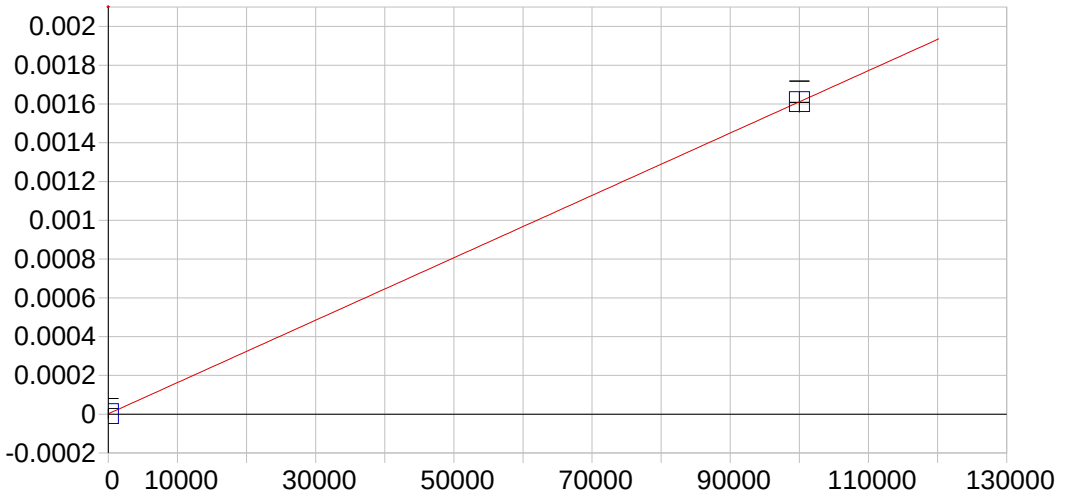


Li 670.784 { 50}

Date of Fit:	11/19/2010 09:55:50	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000003	Re-Slope:	1.000000
A1 (Gain):	0.000096	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999976	Status:	OK.
Std Error of Est:	0.000298		
Predicted MDL:	4.288791		
Predicted MQL:	14.295971		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-2.5589	-2.56	.000	-.00024	.000	1
CalibStd=10	10.000	8.9759	-1.02	-10.2	.00087	.000	1
CalibStd=50	50.000	51.648	1.65	3.30	.00497	.000	1
CalibStd=100	100.00	104.75	4.75	4.75	.01008	.000	1
CalibStd=100	1000.0	999.45	-.545	-.055	.09611	.001	1
CalibStd=1	1.0000	-1.2720	-2.27	-227.	-.00012	.000	1

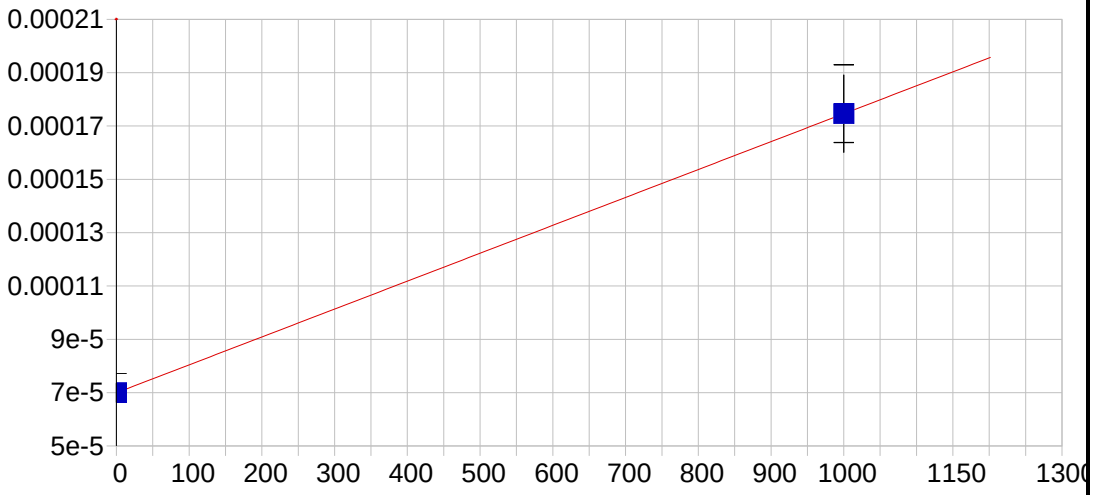


Na 330.298 {102}

Date of Fit:	11/19/2010 10:13:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000002	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	6274.461515		
Predicted MQL:	20914.87171		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00000	.000	1
CalibStd=100	100000.	100000.	.000	.000	.00161	.000	1

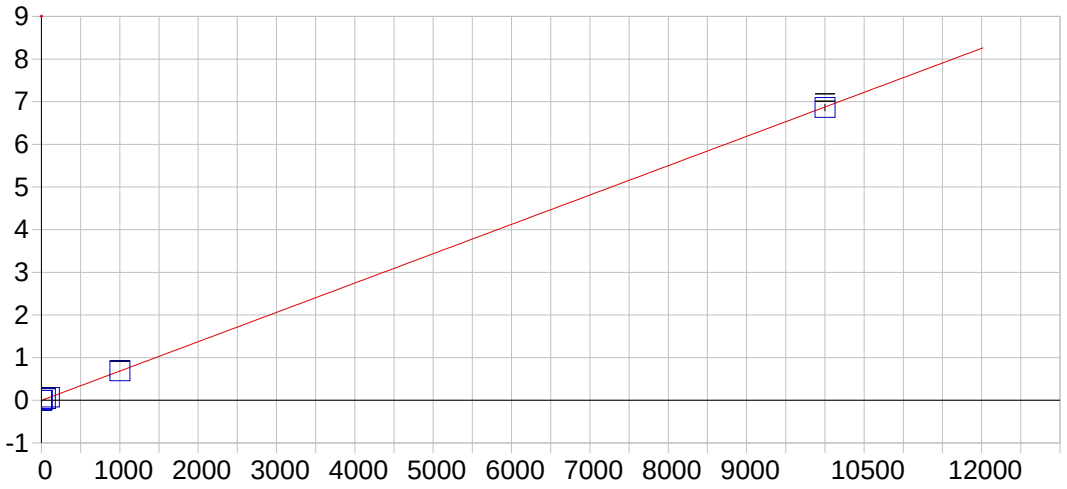


Si 251.611 {134}

Date of Fit:	11/19/2010 09:55:50	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000070	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	562.053924		
Predicted MQL:	1873.513079		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00007	.000	1
CalibStd=100	1000.0	1000.0	.000	.000	.00017	.000	1

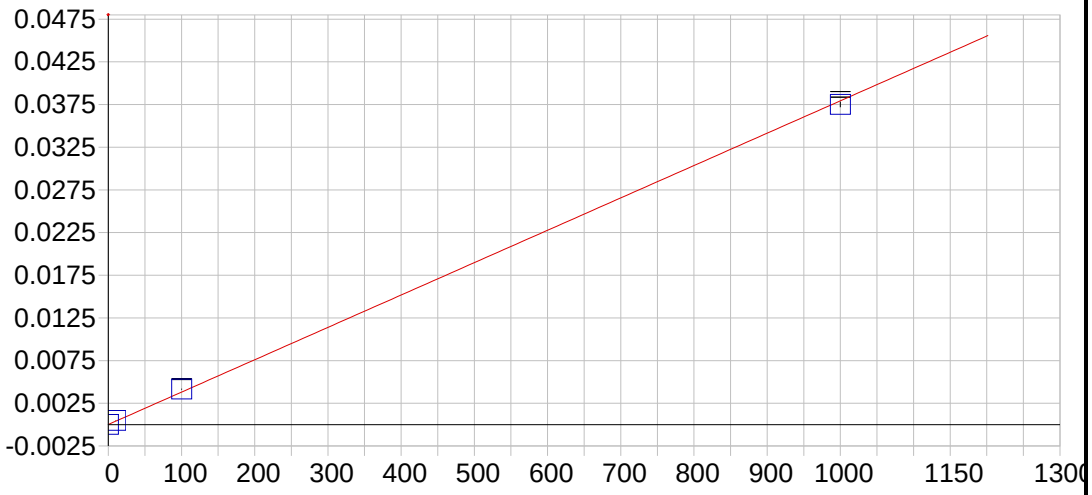


Sr 407.771 { 83}

Date of Fit:	11/19/2010 10:01:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.002599	Re-Slope:	1.000000
A1 (Gain):	0.000688	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999908	Status:	OK.
Std Error of Est:	0.000036		
Predicted MDL:	0.246340		
Predicted MQL:	0.821133		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00063	-.001	.000	-.00260	.000	1
CalibStd=1	1.0000	1.1295	.129	12.9	-.00182	.000	1
CalibStd=5	5.0000	5.5457	.546	10.9	.00122	.000	1
CalibStd=10	10.000	11.802	1.80	18.0	.00552	.000	1
CalibStd=50	50.000	55.168	5.17	10.3	.03535	.000	1
CalibStd=100	100.00	110.35	10.3	10.3	.07330	.001	1
CalibStd=100	1000.0	1001.8	1.81	.181	.68648	.005	1
CalibStd=100	10000.	9980.2	-19.8	-.198	6.8622	.088	1



Ti 334.941 {101}

Date of Fit:	11/19/2010 09:55:50	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000016	Re-Slope:	1.000000
A1 (Gain):	0.000038	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999365	Status:	OK.
Std Error of Est:	0.000006		
Predicted MDL:	2.728691		
Predicted MQL:	9.095638		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00289	-.003	.000	.00002	.000	1
CalibStd=10	10.000	12.076	2.08	20.8	.00047	.000	1
CalibStd=100	100.00	109.22	9.22	9.22	.00416	.000	1
CalibStd=100	1000.0	988.70	-11.3	-1.13	.03751	.000	1

Sample Name: Blank Acquired: 11/19/2010 09:01:43 Type: Cal
Method: DOD Calibration 1(v1278) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	Al3092	Al3961	As1890	As1937	Ba4554	Ba4934	Be2348	Be3130	Ca3179	Ca3933
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.001**	**.000**	**.000**	**.000**	**.000**	**.016**	**.000**	**.000**	**.005**	**.008**
Stddev	.000	.000	.000	.000	.000	.00	.000	.000	.000	.000	.000	.000
%RSD	2.84	3.18	12.8	45.5	159.	53.4	32.5	2.06	22.1	53.3	.015	.791

Elem	Ca3968	Cd2265	Cd2288	Co2286	Co2388	Cr2677	Cr2835	Cu2247	Fe2343	Fe2395	Fe2599	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.004**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.001**	**.000**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	1.95	111.	47.7	106.	72.0	44.0	6.04	7.85	27.9	22.9	17.2	364.

Elem	Mg2795	Mg2802	Mn2576	Mn2593	Mo2020	Mo2045	Ni2216	Ni2316	Pb2169	Pb2203	Sb2068	Sb2175
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.001**	**.001**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**
Stddev	.000	.000	.000	.000	.000	.00	.000	.00	.000	.000	.000	.00
%RSD	.331	1.31	48.0	42.2	175.	327.	190.	197.	14.2	175.	2110.	17.5

Elem	Se1960	Se2062	Tl1908	Tl2767	V_2908	V_2924	Zn2062	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.000**	**.000**	**.001**	**.000**	**.000**	**.000**
Stddev	.000	.000	.00	.00	.000	.000	.000	.000
%RSD	82.5	125.	930.	506.	3.90	6.93	5.77	12.6

Sample Name: Blank Acquired: 11/19/2010 09:01:43 Type: Cal
Method: DOD Calibration 1(v1278) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Units	Cts/S
Avg	**102210.**
Stddev	1118.
%RSD	1.0938

Sample Name: CalibStd=0.25 Acquired: 11/19/2010 09:07:09 Type: Cal
Method: DOD Calibration 1(v1278) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Be3130	Cd2265
Units	Cts/S	Cts/S
Avg	**.000**	**.000**
Stddev	.000	.000
%RSD	23.7	13.0

Int. Std.	Y_3600
Units	Cts/S
Avg	**102210.**
Stddev	791.
%RSD	.77407

Sample Name: CalibStd=0.5 Acquired: 11/19/2010 09:12:38 Type: Cal
Method: DOD Calibration 1(v1278) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Be3130	Cd2265
Units	Cts/S	Cts/S
Avg	**.000**	**.000**
Stddev	.000	.000
%RSD	3.74	42.6

Int. Std.	Y_3600
Units	Cts/S
Avg	**102300.**
Stddev	659.
%RSD	.64440

Sample Name: CalibStd=1 Acquired: 11/19/2010 09:18:06 Type: Cal
Method: DOD Calibration 1(v1278) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Ba4554	Cd2265	Co2286	Cr2677	Mn2576	Mo2020	V_2924
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.001**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	16.8	11.3	.633	6.78	75.8	22.6	26.4	23.5

Int. Std.	Y_3600
Units	Cts/S
Avg	**101750.**
Stddev	498.
%RSD	.48976

Sample Name: CalibStd=5 Acquired: 11/19/2010 09:23:35 Type: Cal
Method: DOD Calibration 1(v1278) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	Ba4554	Be3130	Cd2265	Co2286	Cr2677	Cu2247	Mn2576	Mo2020	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.001**	**.000**	**.002**	**.002**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	4.60	11.3	3.56	1.69	3.35	5.37	9.99	1.93	3.87	5.41	6.86	20.7

Elem	Se1960	V_2924
Units	Cts/S	Cts/S
Avg	**.000**	**.000**
Stddev	.000	.000
%RSD	28.8	2.33

Int. Std.	Y_3600
Units	Cts/S
Avg	**101900.**
Stddev	687.
%RSD	.67449

Sample Name: CalibStd=10 Acquired: 11/19/2010 09:29:05 Type: Cal
Method: DOD Calibration 1(v1278) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Cd2265	Co2286	Cr2677	Cu2247	Mg2795	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.001**	**.000**	**.000**	**.003**	**.005**	**.000**	**.000**	**.000**	**.000**	**.003**	**.001**	**.000**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	5.80	9.47	30.1	2.84	.788	1.21	4.74	3.47	2.37	.081	1.93	2.12

Elem	Ni2316	Pb2203	Sb2068	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	5.72	3.50	21.4	38.6	55.0	66.2	7.66	1.40

Int. Std.	Y_3600
Units	Cts/S
Avg	**99575.**
Stddev	511.
%RSD	.51355

Sample Name: CalibStd=20 Acquired: 11/19/2010 09:34:34 Type: Cal
Method: DOD Calibration 1(v1278) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al1670	Ba4554	Cr2677	Fe2599	Mg2795	Mn2576	Mo2020	Ni2316	Sb2175	Tl1908	V_2924
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.006**	**.001**	**.000**	**.005**	**.002**	**.000**	**.000**	**.000**	**.000**	**.001**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	6.65	1.64	4.38	1.61	1.06	.204	2.53	3.34	31.2	53.3	2.31

Int. Std.	Y_3600
Units	Cts/S
Avg	**98452.**
Stddev	1254.
%RSD	1.2734

Sample Name: CalibStd=50 Acquired: 11/19/2010 09:40:03 Type: Cal
Method: DOD Calibration 1(v1278) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al1670	As1937	Ba4554	Ca3933	Cd2265	Co2286	Cr2677	Cr2835	Cu2247	Fe2599	Mg2795	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.014**	**.063**	**.002**	**.001**	**.002**	**.001**	**.000**	**.001**	**.011**	**.004**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	4.86	8.43	.459	.259	.929	.232	.750	2.38	1.41	4.02	.472	.758

Elem	Mo2020	Mo2045	Ni2316	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.002**	**.001**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	1.82	.927	1.22	3.96	17.4	4.87	2.01	.796

Int. Std.	Y_3600
Units	Cts/S
Avg	**98362.**
Stddev	792.
%RSD	.80563

Sample Name: CalibStd=100 Acquired: 11/19/2010 09:45:28 Type: Cal
Method: DOD Calibration 1(v1278) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	As1890	As1937	Ba4554	Be2348	Be3130	Ca3968	Cd2265	Cd2288	Co2286	Cr2677	Cr2835
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.009**	**.000**	**.000**	**.028**	**.004**	**.045**	**.049**	**.003**	**.003**	**.001**	**.005**	**.001**
Stddev	.000	.000	.000	.000	.000	.001	.000	.000	.000	.000	.000	.000
%RSD	1.72	3.23	7.30	1.32	1.81	1.39	.904	1.33	1.09	.839	.825	1.04

Elem	Cu2247	Fe2599	Mn2576	Mo2020	Mo2045	Ni2216	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.001**	**.001**	**.008**	**.000**	**.000**	**.002**	**.001**	**.000**	**.000**	**.000**	**.000**	**.005**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	1.25	3.51	1.49	1.74	1.99	1.39	.601	3.39	5.06	6.50	5.06	1.62

Elem	Zn2138
Units	Cts/S
Avg	**.002**
Stddev	.000
%RSD	1.30

Int. Std.	Y_3600
Units	Cts/S
Avg	**98955.**
Stddev	1111.
%RSD	1.1224

Sample Name: CalibStd=1000 Acquired: 11/19/2010 09:50:51 Type: Cal
Method: DOD Calibration 1(v1278) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al1670	Al3092	Al3961	As1890	As1937	Ba4934	Be2348	Be3130	Ca3179	Ca3933	Ca3968	Cd2265
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.001**	**.004**	**.006**	**.000**	**.000**	**.345**	**.041**	**.434**	**.014**	**.853**	**.406**	**.030**
Stddev	.000	.000	.000	.000	.000	.001	.000	.001	.000	.004	.002	.000
%RSD	.831	.941	1.32	.858	.363	.276	.392	.157	.634	.496	.457	.826

Elem	Cd2288	Co2286	Co2388	Cr2677	Cr2835	Cu2247	Fe2343	Fe2395	Fe2599	Mg2790	Mg2802	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.031**	**.013**	**.005**	**.044**	**.012**	**.007**	**.001**	**.004**	**.007**	**.001**	**.134**	**.077**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	.001
%RSD	1.04	.672	.973	.965	.067	.780	.246	.762	.374	.709	.675	.723

Elem	Mn2593	Mo2020	Mo2045	Ni2216	Ni2316	Pb2169	Pb2203	Sb2068	Sb2175	Se1960	Se2062	Tl1908
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.057**	**.005**	**.003**	**.015**	**.007**	**.001**	**.003**	**.001**	**.001**	**.000**	**.000**	**.001**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	.589	.985	.893	.924	.778	1.19	.975	.991	1.06	.700	1.90	.748

Elem	Tl2767	V_2908	V_2924	Zn2062	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.059**	**.043**	**.010**	**.020**
Stddev	.000	.001	.000	.000	.000
%RSD	6.94	1.01	.767	.661	.655

Sample Name: CalibStd=1000 Acquired: 11/19/2010 09:50:51 Type: Cal
Method: DOD Calibration 1(v1278) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Units	Cts/S
Avg	**100780.**
Stddev	827.
%RSD	.82074

Sample Name: CalibStd=10000 Acquired: 11/19/2010 09:55:54 Type: Cal
Method: DOD Calibration 1(v1278) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al3092	Al3961	As1890	Ba4934	Ca3179	Ca3968	Co2388	Cr2835	Cu2247	Fe2343	Fe2395	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.033**	**.062**	**.002**	**3.37**	**.098**	**4.06**	**.045**	**.115**	**.070**	**.010**	**.043**	**.012**
Stddev	.000	.000	.000	.01	.000	.02	.000	.000	.000	.000	.000	.000
%RSD	.373	.635	.513	.193	.273	.401	.301	.367	.321	1.32	.603	.974

Elem	Mg2802	Mn2576	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068	Sb2175	Se1960	Se2062	Tl1908	Tl2767
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.29**	**.755**	**.566**	**.033**	**.143**	**.007**	**.012**	**.014**	**.004**	**.001**	**.005**	**.003**
Stddev	.02	.003	.003	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	1.39	.345	.582	.364	.240	.576	.160	.205	.468	.621	.196	1.13

Elem	V_2908	Zn2062
Units	Cts/S	Cts/S
Avg	**.577**	**.099**
Stddev	.014	.000
%RSD	2.48	.302

Int. Std.	Y_3600
Units	Cts/S
Avg	**101410.**
Stddev	304.
%RSD	.29998

Sample Name: CalibStd-100k Acquired: 11/19/2010 10:01:42 Type: Cal
Method: DOD Calibration 1(v1278) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Cr2835	Mn2593	Pb2169	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.16**	**5.49**	**.074**	**.832**
Stddev	.01	.05	.001	.009
%RSD	1.26	.936	1.29	1.05

Int. Std.	Y_3600
Units	Cts/S
Avg	**102850.**
Stddev	1302.
%RSD	1.2660

Sample Name: CalibStd=100000 Acquired: 11/19/2010 10:07:33 Type: Cal
Method: DOD Calibration 1(v1278) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al3092	Al3961	Ca3179	Fe2343	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.313**	**.583**	**.922**	**.108**	**.124**
Stddev	.002	.002	.004	.001	.000
%RSD	.563	.390	.434	.723	.300

Int. Std.	Y_3600
Units	Cts/S
Avg	**100490.**
Stddev	122.
%RSD	.12111

Sample Name: CalibStd=500000 Acquired: 11/19/2010 10:13:20 Type: Cal
Method: DOD Calibration 1(v1278) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al3961	Ca3179	Fe2343	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3.01**	**4.36**	**.535**	**.636**
Stddev	.02	.01	.006	.005
%RSD	.812	.199	1.04	.752

Int. Std.	Y_3600
Units	Cts/S
Avg	**96299.**
Stddev	403.
%RSD	.41857

Sample Name: CalibStd-1000k Acquired: 11/19/2010 10:19:21 Type: Cal
Method: DOD Calibration 1(v1278) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al3961	Ca3179	Fe2343	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5.70**	**7.92**	**1.00**	**1.20**
Stddev	.04	.10	.01	.01
%RSD	.694	1.20	1.37	.479

Int. Std.	Y_3600
Units	Cts/S
Avg	**93658.**
Stddev	419.
%RSD	.44702

Sample Name: icv Acquired: 11/19/2010 10:31:00 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2388	Cr2677	Cu2247
Avg	**117.**	**11400.**	**11500.**	**1980.**	**2090.**	**52.6**	**9950.**	**50.0**	**462.**	**179.**	**251.**
Stddev	.	6.	48.	6.	5.	.8	10.	.1	1.	3.	1.
%RSD	.306	.051	.416	.285	.237	1.44	.099	.259	.276	1.53	.337
Check ?	None	None	None	None	None	None	None	None	None	None	None
Value											
Range											

Elem	Fe2395	Mg2790	Mg2802	Mn2576	Mo2020	Ni2216	Ni2316	Pb2169	Pb2203	Sb2068	Sb2175
Avg	**4780.**	**10800.**	**10300.**	**488.**	**478.**	**526.**	**473.**	**482.**	**512.**	**507.**	**501.**
Stddev	14.	171.	16.	.	1.	.	1.	5.	1.	1.	.
%RSD	.301	1.58	.159	.057	.134	.029	.137	.997	.185	.252	.015
Check ?	None	None	None	None	None	None	None	None	None	None	None
Value											
Range											

Elem	Se1960	Se2062	Tl1908	Tl2767	V_2908	Zn2138
Avg	**2010.**	**2020.**	**2100.**	**2170.**	**483.**	**473.**
Stddev	12.	7.	7.	47.	8.	2.
%RSD	.582	.323	.324	2.18	1.59	.461
Check ?	None	None	None	None	None	None
Value						
Range						

Sample Name: icv Acquired: 11/19/2010 10:31:00 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Avg	**101300.**
Stddev	103.
%RSD	.10167

Sample Name: icb Acquired: 11/19/2010 10:36:35 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3968	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**-.618**	**-.182**	**-3.24**	**.409**	**.020**	**2.25**	**-.032**	**-.072**	**-.355**	**.061**	**-16.1**	**5.61**
Stddev	.213	3.01	5.72	.165	.139	3.02	.062	.227	.534	.884	7.9	2.52
%RSD	34.5	1650.	177.	40.4	703.	134.	195.	316.	150.	1440.	48.9	44.9
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**.054**	**-.615**	**-1.86**	**-1.88**	**1.43**	**.002**	**-6.91**	**.205**	**-.743**
Stddev	.152	1.04	.38	1.96	1.54	5.10	3.39	.375	.186
%RSD	282.	170.	20.6	104.	108.	231000.	49.0	183.	25.0
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**100640.**
Stddev	453.
%RSD	.45046

Sample Name: MRL Acquired: 11/19/2010 10:47:33 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3968	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**19.8**	**399.**	**9.33**	**10.0**	**4.29**	**561.**	**5.32**	**11.3**	**9.03**	**10.8**	**318.**	**497.**
Stddev	.0	1.	2.10	.1	.11	1.	.15	.3	.16	.5	1.	.
%RSD	.116	.243	22.5	1.20	2.49	.182	2.87	3.09	1.72	4.72	.314	.011
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	**10.8**	**7.95**	**8.67**	**8.86**	**17.1**	**7.77**	**22.8**	**10.0**	**11.6**
Stddev	.5	.66	.72	1.58	7.6	9.26	5.8	.9	.0
%RSD	4.40	8.25	8.27	17.8	44.3	119.	25.6	9.26	.281
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**101500.**
Stddev	216.
%RSD	.21295

Sample Name: icsa Acquired: 11/19/2010 10:52:57 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3961	As1937	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Avg	**.000**	**447000.**	**-.303**	**-.049**	**.051**	**495000.**	**.036**	**.030**	**.000**	**-.073**
Stddev	.87	5240.	15.0	.185	.102	2910.	.493	.471	.74	1.55
%RSD	1563e15	1.17	4940.	377.	200.	.588	1370.	1560.	15e6	2130.
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2343	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Avg	**495000.**	**472000.**	**.025**	**.244**	**.001**	**-.027**	**-.100**	**.001**	**.000**	**.080**
Stddev	4460.	2360.	.343	.211	1.00	2.43	5.68	5.22	3.24	.653
%RSD	.901	.500	1380.	86.6	170000.	8960.	5650.	730000.	218e6	820.
Check ?	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Zn2138
Avg	**.062**
Stddev	.476
%RSD	769.
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: icsa Acquired: 11/19/2010 10:52:57 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Avg	**96381.**
Stddev	274.
%RSD	.28465

Sample Name: icsab Acquired: 11/19/2010 10:59:00 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be2348	Ca3179	Cd2288	Co2388	Cr2677	Cu2247
Avg	**474.**	**454000.**	**500.**	**586.**	**537.**	**507000.**	**429.**	**405.**	**419.**	**466.**
Stddev	1.	7030.	17.	3.	1.	2810.	1.	1.	3.	2.
%RSD	.219	1.55	3.37	.574	.265	.554	.158	.139	.662	.487
Check ?	None	None	None	None	None	None	None	None	None	None
Value										
Range										

Elem	Fe2343	Mg2790	Mn2576	Mo2020	Ni2216	Pb2169	Sb2175	Se1960	Tl1908	V_2908
Avg	**509000.**	**484000.**	**507.**	**459.**	**477.**	**445.**	**425.**	**461.**	**412.**	**468.**
Stddev	1510.	1630.	4.	1.	1.	2.	7.	1.	8.	1.
%RSD	.297	.337	.833	.114	.129	.361	1.76	.278	2.01	.115
Check ?	None	None	None	None	None	None	None	None	None	None
Value										
Range										

Elem	Zn2138
Avg	**453.**
Stddev	1.
%RSD	.294
Check ?	None
Value	
Range	

Sample Name: icsab Acquired: 11/19/2010 10:59:00 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Avg	**96623.**
Stddev	30.
%RSD	.03086

Sample Name: ccv1 Acquired: 11/19/2010 18:33:53 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	Al3961	As1890	Ba4554	Ba4934	Be2348	Ca3179	Ca3968	Cd2288	Co2388	Cr2835
Avg	**482.**	**4760.**	**5110.**	**4820.**	**4650.**	**5230.**	**479.**	**6450.**	**7100.**	**468.**	**4360.**	**4370.**
Stddev	9.	124.	121.	143.	129.	142.	12.	282.	567.	14.	121.	108.
%RSD	1.95	2.61	2.37	2.96	2.77	2.71	2.58	4.37	7.98	2.99	2.77	2.47
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Cu2247	Fe2395	Mg2790	Mg2802	Mn2593	Mo2045	Ni2216	Ni2316	Pb2169	Pb2203	Sb2068	Se1960
Avg	**5170.**	**4760.**	**5880.**	**5810.**	**4590.**	**4690.**	**5420.**	**4870.**	**5280.**	**4990.**	**5140.**	**4800.**
Stddev	135.	93.	130.	84.	118.	131.	142.	129.	157.	138.	137.	133.
%RSD	2.62	1.95	2.20	1.44	2.58	2.80	2.63	2.65	2.98	2.76	2.66	2.77
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Se2062	Tl1908	Tl2767	V_2908	Zn2062
Avg	**4900.**	**4980.**	**5080.**	**4930.**	**4900.**
Stddev	145.	129.	142.	108.	123.
%RSD	2.96	2.59	2.79	2.20	2.51
Check ?	None	None	None	None	None
Value					
Range					

Sample Name: ccv1 Acquired: 11/19/2010 18:33:53 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Avg	**101820.**
Stddev	2700.
%RSD	2.6516

Sample Name: ccv2 Acquired: 11/19/2010 18:39:10 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1890	As1937	Ba4554	Ba4934	Be3130	Ca3179	Ca3968	Cd2265	Co2286	Co2388
Avg	**52.4**	**516.**	**495.**	**475.**	**460.**	**525.**	**53.0**	**557.**	**620.**	**52.7**	**558.**	**435.**
Stddev	2.7	21.	23.	25.	23.	30.	2.7	34.	35.	2.2	23.	21.
%RSD	5.10	4.07	4.67	5.24	5.06	5.69	5.17	6.14	5.67	4.09	4.10	4.75
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Cr2677	Cu2247	Fe2599	Mg2795	Mg2802	Mn2576	Mn2593	Mo2020	Ni2216	Ni2316	Pb2169	Pb2203
Avg	**463.**	**532.**	**499.**	**492.**	**544.**	**469.**	**469.**	**466.**	**559.**	**499.**	**517.**	**480.**
Stddev	24.	22.	31.	26.	28.	23.	23.	20.	24.	22.	25.	18.
%RSD	5.27	4.18	6.17	5.20	5.07	4.85	4.89	4.33	4.30	4.49	4.90	3.79
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Sb2068	Sb2175	Se1960	Tl1908	V_2908	Zn2138
Avg	**534.**	**534.**	**500.**	**533.**	**505.**	**474.**
Stddev	20.	22.	19.	16.	27.	20.
%RSD	3.70	4.09	3.84	3.04	5.37	4.26
Check ?	None	None	None	None	None	None
Value						
Range						

Sample Name: ccv2 Acquired: 11/19/2010 18:39:10 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Avg	**102370.**
Stddev	3829.
%RSD	3.7407

Sample Name: ccb Acquired: 11/19/2010 18:49:51 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3179	Ca3968	Cd2265	Co2286	Cr2677	Cu2247	Fe2599
Avg	**-.175**	**-9.51**	**-1.98**	**.191**	**-.013**	**211.**	**243.**	**-.126**	**-.340**	**-.550**	**5.45**	**-31.5**
Stddev	.688	1.22	11.2	.202	.028	8.	12.	.080	.115	.350	.93	3.4
%RSD	393.	12.9	563.	106.	221.	3.92	4.83	63.9	34.0	63.6	17.0	10.9
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mg2795	Mg2802	Mn2576	Mo2020	Ni2216	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**99.4**	**109.**	**.192**	**-1.41**	**.033**	**-1.71**	**-4.68**	**-.671**	**-5.80**	**-.105**	**.425**	**-.529**
Stddev	4.8	5.	.207	.50	.681	.30	.82	1.45	6.17	8.39	.280	.181
%RSD	4.85	4.86	108.	35.2	2060.	17.6	17.6	215.	106.	8010.	65.8	34.3
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Int. Std.	Y_3600
Avg	**97939.**
Stddev	4427.
%RSD	4.5205

Sample Name: lcss35475 Acquired: 11/19/2010 19:46:20 Type: Unk
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2388	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**92.8**	**3730.**	**3650.**	**4150.**	**103.**	**178000.**	**93.6**	**817.**	**333.**	**460.**
Stddev	.7	23.	6.	5.	.	2440.	.5	3.	2.	3.
%RSD	.753	.618	.166	.118	.408	1.37	.515	.407	.706	.621

Elem	Fe2599	Mg2790	Mn2576	Mo2020	Ni2216	Pb2169	Sb2068	Se2062	Tl1908	V_2908
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**2020.**	**90500.**	**881.**	**-1.53**	**985.**	**838.**	**1000.**	**3600.**	**3300.**	**962.**
Stddev	38.	348.	1.	.15	2.	12.	1.	64.	15.	5.
%RSD	1.89	.384	.097	9.79	.224	1.47	.141	1.77	.444	.537

Elem	Zn2062
Units	ug/L
Avg	**889.**
Stddev	4.
%RSD	.452

Int. Std.	Y_3600
Units	Cts/S
Avg	94643.
Stddev	349.
%RSD	.36849

Sample Name: ccv1 Acquired: 11/19/2010 19:52:03 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	Al3961	As1890	Ba4554	Ba4934	Be2348	Ca3179	Ca3968	Cd2288	Co2388	Cr2835
Avg	**487.**	**4630.**	**4970.**	**4860.**	**4630.**	**5290.**	**471.**	**5940.**	**6620.**	**473.**	**4270.**	**4310.**
Stddev	4.	29.	11.	44.	1.	3.	4.	182.	272.	5.	6.	16.
%RSD	.881	.635	.226	.899	.024	.050	.851	3.07	4.11	1.06	.138	.366
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Cu2247	Fe2395	Mg2790	Mg2802	Mn2593	Mo2045	Ni2216	Ni2316	Pb2169	Pb2203	Sb2068	Se1960
Avg	**5280.**	**4480.**	**5700.**	**5600.**	**4520.**	**4720.**	**5570.**	**4970.**	**5390.**	**5060.**	**5300.**	**4860.**
Stddev	58.	27.	116.	100.	14.	60.	60.	57.	64.	55.	54.	67.
%RSD	1.10	.590	2.03	1.79	.308	1.28	1.07	1.15	1.18	1.09	1.02	1.37
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Se2062	Tl1908	Tl2767	V_2908	Zn2062
Avg	**4950.**	**5090.**	**4860.**	**5000.**	**5020.**
Stddev	30.	59.	170.	39.	54.
%RSD	.607	1.17	3.49	.771	1.08
Check ?	None	None	None	None	None
Value					
Range					

Sample Name: ccv1 Acquired: 11/19/2010 19:52:03 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Avg	**99105.**
Stddev	995.
%RSD	1.0043

Sample Name: ccv2 Acquired: 11/19/2010 19:57:18 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1890	As1937	Ba4554	Ba4934	Be3130	Ca3179	Ca3968	Cd2265	Co2286	Co2388
Avg	**52.6**	**525.**	**494.**	**481.**	**454.**	**520.**	**52.7**	**586.**	**663.**	**53.9**	**572.**	**423.**
Stddev	1.7	19.	31.	10.	24.	31.	2.9	38.	44.	1.8	20.	22.
%RSD	3.31	3.61	6.28	2.00	5.31	5.92	5.45	6.42	6.58	3.31	3.55	5.23
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Cr2677	Cu2247	Fe2599	Mg2795	Mg2802	Mn2576	Mn2593	Mo2020	Ni2216	Ni2316	Pb2169	Pb2203
Avg	**460.**	**541.**	**495.**	**504.**	**560.**	**456.**	**454.**	**471.**	**571.**	**508.**	**526.**	**480.**
Stddev	17.	20.	34.	31.	34.	27.	24.	15.	21.	18.	17.	22.
%RSD	3.76	3.71	6.79	6.14	5.99	5.82	5.25	3.24	3.68	3.48	3.28	4.51
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Sb2068	Sb2175	Se1960	Tl1908	V_2908	Zn2138
Avg	**543.**	**547.**	**498.**	**543.**	**506.**	**478.**
Stddev	15.	17.	16.	22.	18.	16.
%RSD	2.68	3.16	3.18	4.09	3.48	3.35
Check ?	None	None	None	None	None	None
Value						
Range						

Sample Name: ccv2 Acquired: 11/19/2010 19:57:18 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Avg	**100940.**
Stddev	3787.
%RSD	3.7519

Sample Name: ccb Acquired: 11/19/2010 20:07:58 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3179	Ca3968	Cd2265	Co2286	Cr2677	Cu2247	Fe2599
Avg	**-.009**	**-8.29**	**-10.6**	**.778**	**-.088**	**198.**	**242.**	**-.140**	**.105**	**-.216**	**5.61**	**-30.3**
Stddev	.458	.64	5.1	.193	.017	2.	1.	.131	.242	.411	1.18	1.0
%RSD	5030.	7.72	48.3	24.8	18.9	1.18	.450	93.5	231.	191.	21.0	3.45
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mg2795	Mg2802	Mn2576	Mo2020	Ni2216	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**97.3**	**108.**	**-.099**	**-1.35**	**-.171**	**-1.78**	**-2.91**	**.197**	**.204**	**2.94**	**-.146**	**-.459**
Stddev	.3	1.	.152	.35	.328	.09	1.20	3.28	8.12	2.26	.422	.114
%RSD	.323	.523	153.	26.2	192.	4.97	41.1	1670.	3980.	76.6	288.	24.9
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Int. Std.	Y_3600
Avg	**98776.**
Stddev	430.
%RSD	.43519

Sample Name: mbs35475 Acquired: 11/19/2010 20:13:25 Type: Unk
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.582**	**46.6**	**-6.13**	**.203**	**-.052**	**33.2**	**.037**	**-.198**	**.018**	**.075**	**74.4**	**9.45**
Stddev	.329	1.5	1.64	.278	.016	.2	.095	.142	.998	.571	2.2	.26
%RSD	56.5	3.15	26.8	137.	31.5	.517	256.	71.6	5460.	761.	2.93	2.79

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**4.47**	**-1.37**	**-1.73**	**-.376**	**-1.00**	**-.485**	**6.27**	**1.31**	**-.052**
Stddev	.32	.74	.68	1.28	5.91	7.36	1.89	.55	.318
%RSD	7.11	53.8	39.3	342.	591.	1520.	30.2	41.8	616.

Int. Std.	Y_3600
Units	Cts/S
Avg	**99610.**
Stddev	1566.
%RSD	1.5717

Sample Name: 870200 Acquired: 11/19/2010 20:18:54 Type: Unk
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: 2 Post Digestion:
Comment:

Elem	Ag3280	Al3961	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**3.97**	**188000.**	**231.**	**2550.**	**19.2**	**309000.**	**21.5**	**212.**	**565.**	**345.**
Stddev	.44	855.	6.	4.	.1	1410.	.0	1.	4.	3.
%RSD	11.1	.455	2.57	.172	.438	.456	.094	.680	.648	.908

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2216	Pb2169	Sb2175	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**466000.**	**66800.**	**25100.**	**28.2**	**679.**	**2560.**	**10700.**	**12.6**	**28.0**	**339.**
Stddev	1830.	266.	80.	1.5	3.	9.	46.	6.3	1.3	3.
%RSD	.393	.398	.320	5.27	.398	.365	.429	50.3	4.53	.762

Elem	Zn2062
Units	ug/L
Avg	**1470.**
Stddev	2.
%RSD	.152

Int. Std.	Y_3600
Units	Cts/S
Avg	**98584.**
Stddev	218.
%RSD	.22133

Sample Name: 870201 Acquired: 11/19/2010 20:24:38 Type: Unk
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: 2 Post Digestion:
Comment:

Elem	Ag3280	Al3961	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**2.84**	**197000.**	**209.**	**1830.**	**12.2**	**48700.**	**20.4**	**206.**	**2170.**	**282.**
Stddev	.17	858.	11.	7.	.1	232.	.2	1.	8.	2.
%RSD	6.16	.436	5.09	.389	.810	.477	.759	.520	.367	.666

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2216	Pb2169	Sb2068	Se1960	Tl1908	V_2908
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**437000.**	**37800.**	**14300.**	**27.7**	**435.**	**590.**	**47.4**	**16.9**	**13.4**	**441.**
Stddev	5680.	296.	78.	.7	3.	5.	2.5	.6	16.4	3.
%RSD	1.30	.784	.547	2.35	.636	.784	5.31	3.29	123.	.668

Elem	Zn2062
Units	ug/L
Avg	**923.**
Stddev	8.
%RSD	.865

Int. Std.	Y_3600
Units	Cts/S
Avg	**99592.**
Stddev	818.
%RSD	.82098

Sample Name: I870201 Acquired: 11/19/2010 20:30:25 Type: Unk
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: 2 Post Digestion:
Comment:

Elem	Ag3280	Al3092	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247	Fe2343
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.589**	**43400.**	**38.6**	**381.**	**2.56**	**10500.**	**4.77**	**46.9**	**508.**	**65.1**	**98700.**
Stddev	.134	118.	10.7	1.	.21	12.	.11	.1	21.	.2	266.
%RSD	22.8	.272	27.7	.145	8.13	.117	2.35	.220	4.15	.374	.270

Elem	Mg2802	Mn2576	Mo2020	Ni2216	Pb2169	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**8170.**	**2990.**	**4.89**	**100.**	**124.**	**8.69**	**7.92**	**5.26**	**93.0**	**212.**
Stddev	8.	6.	.94	.	5.	1.38	2.15	5.02	2.9	1.
%RSD	.099	.202	19.2	.089	3.84	15.9	27.1	95.5	3.08	.649

Int. Std.	Y_3600
Units	Cts/S
Avg	**100150.**
Stddev	576.
%RSD	.57474

Sample Name: dup870201 Acquired: 11/19/2010 20:36:07 Type: Unk
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: 2 Post Digestion:
Comment:

Elem	Ag3280	Al3961	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**2.20**	**186000.**	**190.**	**1730.**	**11.6**	**46100.**	**18.7**	**194.**	**1940.**	**266.**
Stddev	.12	102.	10.	1.	.1	44.	.6	3.	9.	4.
%RSD	5.62	.055	5.42	.081	.797	.094	2.95	1.35	.467	1.59

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2216	Pb2169	Sb2068	Se1960	Tl1908	V_2908
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**419000.**	**36100.**	**13500.**	**26.0**	**420.**	**590.**	**31.7**	**20.5**	**16.3**	**415.**
Stddev	1440.	164.	26.	.8	3.	8.	3.8	9.4	10.0	5.
%RSD	.343	.453	.191	3.15	.705	1.32	11.8	46.1	61.6	1.32

Elem	Zn2062
Units	ug/L
Avg	**882.**
Stddev	11.
%RSD	1.25

Int. Std.	Y_3600
Units	Cts/S
Avg	**101070.**
Stddev	265.
%RSD	.26213

Sample Name: mss870201 Acquired: 11/19/2010 20:41:54 Type: Unk
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: 2 Post Digestion:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**37.6**	**279000.**	**1900.**	**3790.**	**61.8**	**133000.**	**63.0**	**620.**	**1790.**	**479.**
Stddev	.6	482.	18.	8.	.1	410.	.8	6.	13.	8.
%RSD	1.68	.173	.921	.220	.092	.309	1.21	.959	.697	1.64

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2216	Pb2169	Sb2175	Se1960	Tl1908	V_2908
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**495000.**	**79300.**	**13600.**	**24.6**	**870.**	**985.**	**35.4**	**1570.**	**1460.**	**872.**
Stddev	1370.	297.	15.	.4	9.	9.	2.5	11.	7.	5.
%RSD	.276	.375	.107	1.64	1.04	.914	6.98	.687	.493	.626

Elem	Zn2062
Units	ug/L
Avg	**1300.**
Stddev	12.
%RSD	.948

Int. Std.	Y_3600
Units	Cts/S
Avg	**98228.**
Stddev	752.
%RSD	.76523

Sample Name: msds870201 Acquired: 11/19/2010 20:47:31 Type: Unk
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: 2 Post Digestion:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**39.5**	**296000.**	**1950.**	**3980.**	**64.8**	**139000.**	**65.2**	**645.**	**2150.**	**500.**
Stddev	.3	513.	9.	10.	.3	477.	.4	5.	6.	4.
%RSD	.874	.173	.464	.248	.453	.344	.587	.757	.297	.865

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2216	Pb2169	Sb2068	Se1960	Tl1908	V_2908
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**528000.**	**83500.**	**14300.**	**28.7**	**948.**	**1020.**	**146.**	**1650.**	**1510.**	**914.**
Stddev	5750.	447.	15.	.5	7.	35.	6.	21.	8.	8.
%RSD	1.09	.535	.102	1.78	.755	3.47	4.44	1.30	.542	.857

Elem	Zn2062
Units	ug/L
Avg	**1360.**
Stddev	9.
%RSD	.627

Int. Std.	Y_3600
Units	Cts/S
Avg	**98975.**
Stddev	523.
%RSD	.52823

Sample Name: pdss870201 Acquired: 11/19/2010 20:53:18 Type: Unk
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: 2 Post Digestion:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2388	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**74.7**	**349000.**	**3820.**	**6040.**	**118.**	**221000.**	**109.**	**819.**	**2120.**	**702.**
Stddev	8.7	38700.	386.	703.	14.	22600.	11.	98.	244.	72.
%RSD	11.6	11.1	10.1	11.6	11.7	10.2	9.89	12.0	11.5	10.3

Elem	Fe2343	Mg2790	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068	Se1960	Tl1908	V_2908
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**580000.**	**121000.**	**30700.**	**1730.**	**1340.**	**1470.**	**919.**	**3450.**	**3160.**	**1310.**
Stddev	64500.	13300.	3530.	181.	141.	141.	102.	367.	327.	139.
%RSD	11.1	11.0	11.5	10.5	10.5	9.62	11.1	10.6	10.3	10.6

Elem	Zn2062
Units	ug/L
Avg	**1670.**
Stddev	175.
%RSD	10.5

Int. Std.	Y_3600
Units	Cts/S
Avg	**92629.**
Stddev	8999.
%RSD	9.7155

Sample Name: 870202 Acquired: 11/19/2010 20:59:06 Type: Unk
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: 2 Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**2.72**	**181000.**	**213.**	**1650.**	**13.1**	**69100.**	**19.8**	**218.**	**397.**	**290.**
Stddev	.57	534.	6.	1.	.0	49.	.2	1.	7.	3.
%RSD	21.1	.296	2.85	.032	.270	.070	.981	.372	1.84	1.03

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2216	Pb2169	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**433000.**	**45300.**	**12300.**	**22.9**	**457.**	**700.**	**5.98**	**11.9**	**15.6**	**371.**
Stddev	3270.	161.	31.	.4	2.	6.	1.65	9.8	5.5	8.
%RSD	.754	.355	.249	1.64	.427	.893	27.6	82.0	35.0	2.27

Elem	Zn2062
Units	ug/L
Avg	**1010.**
Stddev	2.
%RSD	.184

Int. Std.	Y_3600
Units	Cts/S
Avg	**100740.**
Stddev	357.
%RSD	.35466

Sample Name: 870203 Acquired: 11/19/2010 21:04:44 Type: Unk
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: 2 Post Digestion: J
Comment:

Elem	Ag3280	Al3961	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**3.27**	**187000.**	**203.**	**1720.**	**11.8**	**46200.**	**20.1**	**191.**	**515.**	**269.**
Stddev	1.27	4910.	5.	44.	.2	1160.	.3	4.	14.	6.
%RSD	38.7	2.63	2.56	2.54	1.59	2.52	1.54	1.97	2.63	2.14

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2216	Pb2169	Sb2068	Se1960	Tl1908	V_2908
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**434000.**	**37100.**	**14700.**	**24.3**	**437.**	**597.**	**9.03**	**16.8**	**22.6**	**426.**
Stddev	6260.	806.	379.	.9	7.	10.	1.46	6.0	3.6	9.
%RSD	1.44	2.18	2.57	3.89	1.54	1.70	16.1	35.6	15.9	2.16

Elem	Zn2062
Units	ug/L
Avg	**920.**
Stddev	16.
%RSD	1.68

Int. Std.	Y_3600
Units	Cts/S
Avg	**100140.**
Stddev	1759.
%RSD	1.7570

Sample Name: ccv1 Acquired: 11/19/2010 21:10:33 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be2348	Ca3179	Cd2288	Co2388	Cr2835	Cu2247	Fe2343	Mg2790
Avg	**493.**	**4530.**	**4870.**	**5220.**	**463.**	**5140.**	**478.**	**4190.**	**4250.**	**5340.**	**5350.**	**5250.**
Stddev	.	14.	62.	16.	1.	23.	5.	11.	12.	70.	166.	53.
%RSD	.082	.318	1.28	.312	.167	.456	1.01	.253	.276	1.32	3.11	1.01
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2045	Ni2216	Pb2169	Sb2068	Se1960	Tl1908	V_2908	Zn2062
Avg	**4480.**	**4770.**	**5650.**	**5410.**	**5310.**	**4870.**	**5120.**	**5040.**	**5080.**
Stddev	13.	53.	79.	62.	59.	51.	34.	18.	63.
%RSD	.291	1.11	1.40	1.15	1.10	1.04	.657	.348	1.25
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**97380.**
Stddev	202.
%RSD	.20698

Sample Name: ccv2 Acquired: 11/19/2010 21:15:50 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1890	As1937	Ba4554	Ba4934	Be3130	Cd2265	Co2286	Co2388	Cr2677	Cu2247
Avg	**52.3**	**540.**	**491.**	**487.**	**456.**	**524.**	**52.5**	**54.8**	**580.**	**419.**	**462.**	**548.**
Stddev	.9	6.	21.	5.	2.	3.	.3	.3	5.	3.	.	4.
%RSD	1.73	1.02	4.26	1.00	.430	.486	.584	.614	.780	.835	.108	.671
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Fe2599	Mg2795	Mg2802	Mn2576	Mn2593	Mo2020	Ni2216	Ni2316	Pb2169	Pb2203	Sb2068	Sb2175
Avg	**509.**	**526.**	**584.**	**457.**	**454.**	**479.**	**579.**	**514.**	**544.**	**492.**	**548.**	**552.**
Stddev	15.	2.	1.	2.	3.	3.	4.	4.	4.	2.	1.	2.
%RSD	2.98	.415	.245	.383	.623	.689	.749	.722	.805	.433	.272	.425
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Se1960	Tl1908	V_2908	Zn2138
Avg	**507.**	**552.**	**509.**	**485.**
Stddev	13.	3.	3.	3.
%RSD	2.61	.510	.604	.647
Check ?	None	None	None	None
Value				
Range				

Sample Name: ccv2 Acquired: 11/19/2010 21:15:50 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Avg	**98214.**
Stddev	734.
%RSD	.74741

Sample Name: ccb Acquired: 11/19/2010 21:26:30 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3179	Ca3968	Cd2265	Co2286	Cr2677	Cu2247	Fe2599
Avg	**.372**	**-7.52**	**-4.14**	**.666**	**-.026**	**207.**	**249.**	**-.056**	**.131**	**-.487**	**5.27**	**-30.0**
Stddev	.456	.68	2.65	.511	.042	1.	1.	.089	.104	.133	.11	2.1
%RSD	123.	9.02	64.0	76.7	161.	.416	.229	159.	79.3	27.4	2.05	6.92
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mg2795	Mg2802	Mn2576	Mo2020	Ni2216	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	**101.**	**111.**	**.186**	**-.892**	**.258**	**-2.23**	**-1.83**	**-1.19**	**.215**	**-.586**	**-1.20**	**-.581**
Stddev	.	1.	.504	.600	.707	1.22	.44	3.08	2.83	6.90	.80	.182
%RSD	.295	.642	271.	67.3	275.	54.8	24.3	258.	1320.	1180.	66.9	31.4
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Int. Std.	Y_3600
Avg	**96689.**
Stddev	750.
%RSD	.77561

Sample Name: 870204 Acquired: 11/19/2010 21:31:58 Type: Unk
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: 2 Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**3.93**	**178000.**	**198.**	**2180.**	**13.3**	**70200.**	**19.2**	**189.**	**1150.**	**221.**
Stddev	.29	836.	12.	6.	.1	218.	.4	1.	13.	1.
%RSD	7.48	.470	6.17	.274	.407	.310	2.21	.339	1.13	.377

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2216	Pb2169	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**388000.**	**37300.**	**25000.**	**26.2**	**348.**	**608.**	**18.9**	**16.8**	**21.3**	**390.**
Stddev	3580.	214.	82.	.2	2.	25.	7.9	12.0	4.5	3.
%RSD	.921	.573	.329	.901	.441	4.10	41.7	71.5	21.2	.857

Elem	Zn2062
Units	ug/L
Avg	**1000.**
Stddev	2.
%RSD	.157

Int. Std.	Y_3600
Units	Cts/S
Avg	**98360.**
Stddev	159.
%RSD	.16131

Sample Name: 870207 Acquired: 11/19/2010 21:37:39 Type: Unk
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: 2 Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**2.58**	**186000.**	**185.**	**2030.**	**13.1**	**77700.**	**20.5**	**201.**	**2240.**	**275.**
Stddev	.61	415.	18.	1.	.1	74.	.3	1.	4.	2.
%RSD	23.7	.223	9.80	.072	.740	.096	1.40	.513	.198	.564

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2216	Pb2169	Sb2068	Se1960	Tl1908	V_2908
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**425000.**	**42200.**	**16500.**	**27.9**	**446.**	**596.**	**42.9**	**19.7**	**19.2**	**415.**
Stddev	4350.	272.	42.	1.8	2.	3.	2.5	16.4	1.4	5.
%RSD	1.02	.644	.252	6.54	.470	.503	5.89	83.5	7.17	1.11

Elem	Zn2062
Units	ug/L
Avg	**1010.**
Stddev	6.
%RSD	.605

Int. Std.	Y_3600
Units	Cts/S
Avg	**98533.**
Stddev	358.
%RSD	.36378

Sample Name: 871184 Acquired: 11/19/2010 21:43:19 Type: Unk
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: 2 Post Digestion: Y
Comment:

Elem	Ag3280	Al3961	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**3.95**	**144000.**	**246.**	**3830.**	**14.6**	**1060000.**	**26.9**	**195.**	**273.**
Stddev	.37	267.	7.	18.	.2	21900.	.2	1.	2.
%RSD	9.33	.185	2.76	.478	1.37	2.07	.885	.594	.755

Elem	Cu2247	Fe2343	Mg2790	Mn2593	Mo2020	Ni2216	Pb2169	Sb2068	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**263.**	**495000.**	**45300.**	**20900.**	**31.2**	**437.**	**595.**	**4.26**	**24.2**
Stddev	3.	3500.	169.	14.	1.2	2.	13.	1.75	5.2
%RSD	1.02	.706	.374	.066	3.92	.475	2.18	41.2	21.4

Elem	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L
Avg	**21.3**	**323.**	**1050.**
Stddev	8.0	1.	7.
%RSD	37.7	.351	.623

Int. Std.	Y_3600
Units	Cts/S
Avg	**95363.**
Stddev	496.
%RSD	.52057

Sample Name: 871186 Acquired: 11/19/2010 21:49:09 Type: Unk
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: 2 Post Digestion: J
Comment:

Elem	Ag3280	Al3092	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1.58**	**69200.**	**134.**	**1230.**	**9.80**	**833000.**	**14.1**	**431.**	**161.**	**1980.**
Stddev	.61	64.	11.	4.	.03	9050.	.2	3.	1.	15.
%RSD	38.7	.093	7.92	.326	.269	1.09	1.42	.731	.874	.750

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2216	Pb2169	Sb2175	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**230000.**	**42100.**	**9280.**	**7.20**	**373.**	**594.**	**731.**	**-12.6**	**13.8**	**91.6**
Stddev	1960.	147.	7.	1.43	3.	10.	5.	6.5	11.3	1.2
%RSD	.851	.349	.072	19.8	.770	1.62	.686	51.4	81.3	1.33

Elem	Zn2062
Units	ug/L
Avg	**12600.**
Stddev	78.
%RSD	.617

Int. Std.	Y_3600
Units	Cts/S
Avg	**94099.**
Stddev	441.
%RSD	.46862

Sample Name: 871187 Acquired: 11/19/2010 21:54:54 Type: Unk
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: 2 Post Digestion: J
Comment:

Elem	Ag3280	Al3961	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**3.17**	**169000.**	**187.**	**1770.**	**9.59**	**482000.**	**18.0**	**177.**	**860.**	**236.**
Stddev	.34	251.	10.	7.	.01	11900.	.7	2.	1.	3.
%RSD	10.7	.149	5.52	.412	.137	2.47	4.04	1.15	.130	1.16

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2216	Pb2169	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**396000.**	**36100.**	**17500.**	**18.9**	**333.**	**440.**	**24.4**	**3.69**	**20.9**	**377.**
Stddev	1530.	137.	54.	.7	2.	12.	2.5	5.05	3.1	3.
%RSD	.386	.379	.305	3.85	.729	2.74	10.2	137.	14.8	.776

Elem	Zn2062
Units	ug/L
Avg	**961.**
Stddev	8.
%RSD	.855

Int. Std.	Y_3600
Units	Cts/S
Avg	**95252.**
Stddev	501.
%RSD	.52552

Sample Name: 871188 Acquired: 11/19/2010 22:00:45 Type: Unk
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: 2 Post Digestion: J
Comment:

Elem	Ag3280	Al3961	As1937	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**5.62**	**157000.**	**278.**	**10300.**	**24.3**	**.000**	**32.8**	**140.**	**527.**	**274.**
Stddev	.46	638.	10.	169.	.1	.000	.6	.	1.	2.
%RSD	8.13	.407	3.45	1.64	.469	.000	1.81	.319	.231	.638

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2216	Pb2169	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**557000.**	**105000.**	**25500.**	**35.4**	**624.**	**916.**	**17.3**	**15.5**	**25.0**	**210.**
Stddev	2650.	297.	112.	1.4	2.	12.	2.8	5.6	9.5	1.
%RSD	.476	.283	.440	3.96	.383	1.35	16.5	36.3	38.0	.378

Elem	Zn2062
Units	ug/L
Avg	**1230.**
Stddev	7.
%RSD	.574

Int. Std.	Y_3600
Units	Cts/S
Avg	**94445.**
Stddev	470.
%RSD	.49733

Sample Name: 871189 Acquired: 11/19/2010 22:07:09 Type: Unk
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: 2 Post Digestion: J
Comment:

Elem	Ag3280	Al3961	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**3.39**	**142000.**	**229.**	**3530.**	**11.8**	**952000.**	**50.9**	**186.**	**260.**	**253.**
Stddev	.59	418.	10.	9.	.1	19800.	1.4	4.	5.	8.
%RSD	17.5	.294	4.30	.257	1.16	2.08	2.70	2.40	1.79	3.16

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2216	Pb2169	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**504000.**	**42600.**	**17000.**	**27.5**	**462.**	**633.**	**-6.40**	**-1.74**	**21.4**	**311.**
Stddev	2750.	102.	86.	.7	8.	10.	5.60	7.84	5.4	7.
%RSD	.546	.239	.507	2.47	1.68	1.57	87.4	450.	25.2	2.27

Elem	Zn2062
Units	ug/L
Avg	**3400.**
Stddev	49.
%RSD	1.45

Int. Std.	Y_3600
Units	Cts/S
Avg	**96487.**
Stddev	1493.
%RSD	1.5473

Sample Name: 871190 Acquired: 11/19/2010 22:13:02 Type: Unk
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: 2 Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**3.62**	**185000.**	**229.**	**2130.**	**12.8**	**399000.**	**21.9**	**250.**	**1800.**	**347.**
Stddev	.67	860.	2.	10.	.2	2580.	.2	2.	15.	3.
%RSD	18.5	.464	.738	.462	1.49	.646	.822	.662	.849	.786

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2216	Pb2169	Sb2068	Se1960	Tl1908	V_2908
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**452000.**	**39400.**	**23900.**	**27.3**	**486.**	**529.**	**27.1**	**10.3**	**27.8**	**403.**
Stddev	2920.	88.	99.	1.0	2.	6.	3.6	10.9	11.3	1.
%RSD	.645	.224	.416	3.77	.370	1.20	13.5	106.	40.7	.340

Elem	Zn2062
Units	ug/L
Avg	**986.**
Stddev	4.
%RSD	.452

Int. Std.	Y_3600
Units	Cts/S
Avg	**98876.**
Stddev	294.
%RSD	.29737

Sample Name: 871191 Acquired: 11/19/2010 22:18:51 Type: Unk
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: 2 Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**3.89**	**110000.**	**209.**	**8450.**	**12.6**	**.000**	**35.2**	**149.**	**568.**	**247.**
Stddev	1.16	761.	18.	45.	.0	.000	.3	1.	3.	1.
%RSD	30.0	.690	8.50	.535	.369	.000	.792	.627	.471	.316

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2216	Pb2169	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**539000.**	**52200.**	**16400.**	**34.0**	**526.**	**658.**	**11.3**	**-.377**	**18.5**	**241.**
Stddev	1640.	260.	127.	.4	4.	2.	3.6	7.72	17.5	1.
%RSD	.304	.497	.774	1.13	.719	.286	32.1	2050.	94.5	.464

Elem	Zn2062
Units	ug/L
Avg	**1210.**
Stddev	10.
%RSD	.857

Int. Std.	Y_3600
Units	Cts/S
Avg	**96057.**
Stddev	564.
%RSD	.58745

Sample Name: 871192 Acquired: 11/19/2010 22:25:01 Type: Unk
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: 2 Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**2.39**	**154000.**	**168.**	**1900.**	**9.68**	**747000.**	**15.5**	**159.**	**891.**	**211.**
Stddev	.77	1720.	9.	33.	.18	9000.	.3	1.	9.	2.
%RSD	32.1	1.12	5.28	1.72	1.90	1.20	2.07	.597	.982	.953

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2216	Pb2169	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**354000.**	**36400.**	**13500.**	**17.4**	**368.**	**424.**	**13.6**	**2.96**	**11.0**	**332.**
Stddev	6790.	508.	166.	.6	2.	8.	3.7	13.3	4.1	2.
%RSD	1.92	1.39	1.23	3.62	.636	1.93	27.1	449.	37.0	.519

Elem	Zn2062
Units	ug/L
Avg	**805.**
Stddev	7.
%RSD	.845

Int. Std.	Y_3600
Units	Cts/S
Avg	**97250.**
Stddev	894.
%RSD	.91925

Sample Name: ccv1 Acquired: 11/19/2010 22:30:52 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	Al3961	As1890	Ba4554	Ba4934	Be2348	Ca3179	Ca3968	Cd2288	Co2388	Cr2835
Avg	**491.**	**4570.**	**4950.**	**4850.**	**4590.**	**5230.**	**459.**	**5140.**	**5760.**	**476.**	**4160.**	**4220.**
Stddev	3.	17.	27.	19.	4.	14.	2.	23.	106.	2.	3.	4.
%RSD	.540	.373	.554	.385	.076	.264	.334	.446	1.85	.448	.064	.105
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Cu2247	Fe2343	Mg2790	Mg2802	Mn2593	Mo2045	Ni2216	Ni2316	Pb2169	Pb2203	Sb2068	Se1960
Avg	**5280.**	**4770.**	**5120.**	**5090.**	**4730.**	**4730.**	**5570.**	**4970.**	**5430.**	**4680.**	**5290.**	**4850.**
Stddev	22.	99.	25.	13.	20.	29.	24.	23.	19.	23.	7.	11.
%RSD	.420	2.07	.481	.258	.427	.611	.431	.456	.347	.494	.135	.232
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Se2062	Tl1908	Tl2767	V_2908	Zn2062
Avg	**5060.**	**5070.**	**4510.**	**5000.**	**4970.**
Stddev	12.	39.	73.	13.	28.
%RSD	.229	.772	1.61	.267	.573
Check ?	None	None	None	None	None
Value					
Range					

Sample Name: ccv1 Acquired: 11/19/2010 22:30:52 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Avg	99595.
Stddev	483.
%RSD	.48453

Sample Name: ccv2 Acquired: 11/19/2010 22:36:08 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3968	Cd2265	Co2286	Co2388	Cr2677	Cu2247	Fe2343
Avg	**51.7**	**529.**	**472.**	**448.**	**51.3**	**703.**	**53.2**	**567.**	**410.**	**453.**	**537.**	**460.**
Stddev	1.4	2.	2.	1.	.4	3.	.2	3.	3.	4.	4.	9.
%RSD	2.61	.400	.342	.309	.701	.478	.460	.544	.653	.946	.692	2.04
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Fe2599	Mg2795	Mg2802	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Sb2175	Se1960	Tl1908	V_2908
Avg	**510.**	**515.**	**572.**	**477.**	**466.**	**502.**	**484.**	**535.**	**543.**	**495.**	**538.**	**498.**
Stddev	7.	3.	3.	4.	3.	1.	4.	4.	2.	18.	9.	3.
%RSD	1.34	.565	.607	.761	.591	.162	.801	.771	.296	3.62	1.60	.593
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Zn2138
Avg	**474.**
Stddev	2.
%RSD	.433
Check ?	None
Value	
Range	

Sample Name: ccv2 Acquired: 11/19/2010 22:36:08 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Avg	**101790.**
Stddev	665.
%RSD	.65287

Sample Name: ccb Acquired: 11/19/2010 22:46:49 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3179	Ca3968	Cd2265	Co2286	Cr2677	Cu2247	Fe2599
Avg	**-.159**	**-6.21**	**2.60**	**.606**	**-.085**	**205.**	**244.**	**.089**	**.259**	**-.776**	**5.44**	**-25.8**
Stddev	.678	.83	3.62	.655	.114	5.	2.	.143	.547	.275	1.01	1.8
%RSD	428.	13.4	140.	108.	135.	2.42	.800	161.	212.	35.5	18.5	6.92
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mg2795	Mg2802	Mn2576	Mo2020	Ni2216	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**98.4**	**108.**	**.286**	**-1.02**	**.313**	**-1.76**	**-2.40**	**-.673**	**2.94**	**2.93**	**.878**	**-.188**
Stddev	.3	.	.262	.56	.416	.28	2.83	3.20	1.86	2.90	.109	.216
%RSD	.309	.200	91.5	54.8	133.	16.2	118.	476.	63.2	99.2	12.4	115.
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Int. Std.	Y_3600
Avg	**99671.**
Stddev	159.
%RSD	.15923

Sample Name: 871193 Acquired: 11/19/2010 22:52:16 Type: Unk
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: 2 Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**2.07**	**153000.**	**202.**	**1880.**	**13.4**	**721000.**	**16.6**	**193.**	**269.**	**306.**
Stddev	.37	1910.	6.	17.	.3	6830.	.5	2.	6.	5.
%RSD	18.0	1.25	2.93	.914	2.16	.947	3.16	1.28	2.31	1.47

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2216	Pb2169	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**358000.**	**46200.**	**12600.**	**18.6**	**432.**	**436.**	**.239**	**9.58**	**.197**	**291.**
Stddev	3130.	580.	129.	.7	5.	11.	2.31	8.87	2.59	5.
%RSD	.875	1.26	1.02	3.85	1.20	2.46	965.	92.6	1320.	1.87

Elem	Zn2062
Units	ug/L
Avg	**904.**
Stddev	12.
%RSD	1.35

Int. Std.	Y_3600
Units	Cts/S
Avg	**97380.**
Stddev	1281.
%RSD	1.3159

Sample Name: 871194 Acquired: 11/19/2010 22:58:07 Type: Unk
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: 2 Post Digestion: 7
Comment:

Elem	Ag3280	Al3092	Al3961	As1937	Ba4554	Ba4934	Be3130	Ca3179	Cd2265	Co2286
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1.66**	**61400.**	**60500.**	**127.**	**764.**	**881.**	**7.34**	**207000.**	**15.7**	**440.**
Stddev	1.91	1480.	1350.	4.	17.	24.	.01	2760.	.1	6.
%RSD	115.	2.41	2.23	3.01	2.22	2.74	.168	1.34	.422	1.34

Elem	Cr2835	Cu2247	Fe2343	Mg2790	Mn2593	Mo2020	Ni2216	Ni2316	Pb2169	Pb2203
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**2900.**	**1990.**	**219000.**	**24500.**	**6560.**	**12.3**	**437.**	**385.**	**593.**	**418.**
Stddev	69.	27.	4960.	565.	170.	.3	7.	6.	4.	7.
%RSD	2.38	1.35	2.27	2.31	2.60	2.59	1.57	1.64	.637	1.64

Elem	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**26.7**	**14.0**	**1.29**	**116.**	**5340.**
Stddev	.2	.3	2.29	1.	83.
%RSD	.909	2.11	178.	1.15	1.56

Int. Std.	Y_3600
Units	Cts/S
Avg	**97638.**
Stddev	1339.
%RSD	1.3717

Sample Name: 871195 Acquired: 11/19/2010 23:03:51 Type: Unk
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: 2 Post Digestion: 2
Comment:

Elem	Ag3280	Al3092	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.694**	**47000.**	**142.**	**559.**	**5.77**	**125000.**	**14.7**	**579.**	**194.**	**2710.**
Stddev	.670	170.	6.	1.	.08	177.	.3	3.	1.	13.
%RSD	96.4	.362	4.21	.250	1.41	.142	2.06	.493	.633	.477

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2216	Pb2169	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**229000.**	**19500.**	**6500.**	**6.96**	**284.**	**431.**	**1.35**	**-9.06**	**6.09**	**106.**
Stddev	120.	100.	21.	.15	1.	5.	4.36	7.18	6.94	1.
%RSD	.052	.514	.321	2.16	.421	1.26	322.	79.2	114.	1.23

Elem	Zn2062
Units	ug/L
Avg	**1000.**
Stddev	4.
%RSD	.403

Int. Std.	Y_3600
Units	Cts/S
Avg	**98143.**
Stddev	400.
%RSD	.40739

Sample Name: 871196 Acquired: 11/19/2010 23:09:27 Type: Unk
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: 2 Post Digestion: 2
Comment:

Elem	Ag3280	Al3092	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2388	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**2.52**	**45200.**	**168.**	**939.**	**5.22**	**729000.**	**13.3**	**15.2**	**155.**	**8860.**
Stddev	1.38	239.	7.	6.	.06	13200.	.2	5.3	1.	37.
%RSD	54.7	.529	4.15	.624	1.09	1.81	1.53	35.1	.720	.419

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2216	Pb2169	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**207000.**	**21900.**	**5590.**	**8.73**	**440.**	**562.**	**1.38**	**-4.93**	**3.67**	**96.9**
Stddev	2270.	93.	21.	1.10	2.	3.	1.77	3.41	5.15	1.3
%RSD	1.10	.427	.381	12.6	.558	.542	128.	69.0	140.	1.30

Elem	Zn2062
Units	ug/L
Avg	**1110.**
Stddev	5.
%RSD	.477

Int. Std.	Y_3600
Units	Cts/S
Avg	**95079.**
Stddev	811.
%RSD	.85282

Sample Name: 871197 Acquired: 11/19/2010 23:15:11 Type: Unk
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: 2 Post Digestion: J
Comment:

Elem	Ag3280	Al3092	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1.13**	**58200.**	**134.**	**1290.**	**8.25**	**934000.**	**14.6**	**451.**	**154.**	**2080.**
Stddev	.76	286.	3.	8.	.08	3420.	.5	5.	1.	25.
%RSD	67.1	.492	2.28	.603	1.01	.366	3.13	1.14	.435	1.18

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2216	Pb2169	Sb2175	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**219000.**	**34700.**	**8180.**	**8.63**	**365.**	**508.**	**-8.33**	**3.76**	**-5.19**	**86.4**
Stddev	768.	247.	42.	.36	4.	11.	4.54	11.5	6.02	.2
%RSD	.351	.712	.510	4.15	1.11	2.09	54.5	305.	116.	.236

Elem	Zn2062
Units	ug/L
Avg	**6090.**
Stddev	77.
%RSD	1.26

Int. Std.	Y_3600
Units	Cts/S
Avg	**95747.**
Stddev	189.
%RSD	.19733

Sample Name: 871198 Acquired: 11/19/2010 23:20:56 Type: Unk
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: 2 Post Digestion: 7
Comment:

Elem	Ag3280	Al3961	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**4.40**	**158000.**	**253.**	**6230.**	**17.5**	**1350000.**	**32.3**	**204.**	**1310.**
Stddev	.98	10600.	10.	440.	1.3	128000.	1.3	12.	89.
%RSD	22.4	6.70	3.87	7.07	7.31	9.51	4.16	5.65	6.79

Elem	Cu2247	Fe2343	Mg2790	Mn2593	Mo2020	Ni2216	Pb2169	Sb2068	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**348.**	**557000.**	**50600.**	**20100.**	**41.8**	**507.**	**780.**	**23.4**	**8.53**
Stddev	17.	37700.	3240.	1370.	1.8	28.	66.	3.1	11.3
%RSD	4.99	6.77	6.41	6.80	4.32	5.51	8.51	13.5	132.

Elem	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L
Avg	**29.7**	**343.**	**1190.**
Stddev	9.5	19.	69.
%RSD	32.1	5.50	5.77

Int. Std.	Y_3600
Units	Cts/S
Avg	**98224.**
Stddev	5736.
%RSD	5.8398

Sample Name: ccv1 Acquired: 11/19/2010 23:49:46 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	Al3961	As1890	Ba4554	Ba4934	Be2348	Ca3179	Ca3968	Cd2288	Co2388	Cr2835
Avg	**517.**	**4700.**	**5090.**	**5130.**	**4810.**	**5490.**	**477.**	**5080.**	**5750.**	**502.**	**4340.**	**4440.**
Stddev	19.	201.	179.	175.	188.	209.	18.	201.	178.	18.	175.	178.
%RSD	3.59	4.27	3.52	3.42	3.91	3.80	3.71	3.96	3.10	3.60	4.03	4.01
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Cu2247	Fe2395	Mg2790	Mg2802	Mn2593	Mo2045	Ni2216	Ni2316	Pb2169	Pb2203	Sb2068	Se1960
Avg	**5620.**	**4490.**	**5260.**	**5170.**	**4630.**	**5030.**	**5940.**	**5300.**	**5730.**	**5250.**	**5590.**	**5080.**
Stddev	196.	183.	206.	208.	179.	180.	200.	185.	191.	390.	187.	181.
%RSD	3.49	4.08	3.91	4.02	3.86	3.58	3.36	3.50	3.33	7.43	3.33	3.57
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Se2062	Tl1908	Tl2767	V_2908	Zn2062
Avg	**5280.**	**5340.**	**4800.**	**5300.**	**5310.**
Stddev	207.	175.	345.	241.	189.
%RSD	3.93	3.28	7.19	4.56	3.57
Check ?	None	None	None	None	None
Value					
Range					

Sample Name: ccv1 Acquired: 11/19/2010 23:49:46 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Avg	**99064.**
Stddev	3379.
%RSD	3.4107

Sample Name: ccv2 Acquired: 11/19/2010 23:55:03 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1890	As1937	Ba4554	Ba4934	Be3130	Ca3179	Ca3968	Cd2265	Co2286	Co2388
Avg	**53.4**	**538.**	**497.**	**491.**	**449.**	**517.**	**51.3**	**473.**	**545.**	**55.0**	**584.**	**411.**
Stddev	3.3	41.	40.	36.	36.	47.	4.5	40.	45.	3.9	41.	30.
%RSD	6.13	7.63	8.09	7.34	7.95	9.08	8.73	8.54	8.26	7.07	6.95	7.21
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Cr2677	Cu2247	Fe2599	Mg2795	Mg2802	Mn2576	Mn2593	Mo2020	Ni2216	Ni2316	Pb2169	Pb2203
Avg	**469.**	**554.**	**464.**	**451.**	**500.**	**447.**	**443.**	**482.**	**582.**	**518.**	**549.**	**495.**
Stddev	33.	39.	39.	39.	43.	40.	38.	34.	41.	37.	44.	43.
%RSD	7.02	7.06	8.40	8.61	8.59	8.85	8.51	7.05	7.00	7.05	7.99	8.65
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Sb2068	Sb2175	Se1960	Tl1908	V_2908	Zn2138
Avg	**548.**	**557.**	**509.**	**553.**	**512.**	**489.**
Stddev	41.	36.	29.	39.	37.	35.
%RSD	7.43	6.53	5.77	7.00	7.25	7.05
Check ?	None	None	None	None	None	None
Value						
Range						

Sample Name: ccv2 Acquired: 11/19/2010 23:55:03 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Avg	**101400.**
Stddev	7240.
%RSD	7.1398

Sample Name: ccb Acquired: 11/20/2010 00:05:48 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

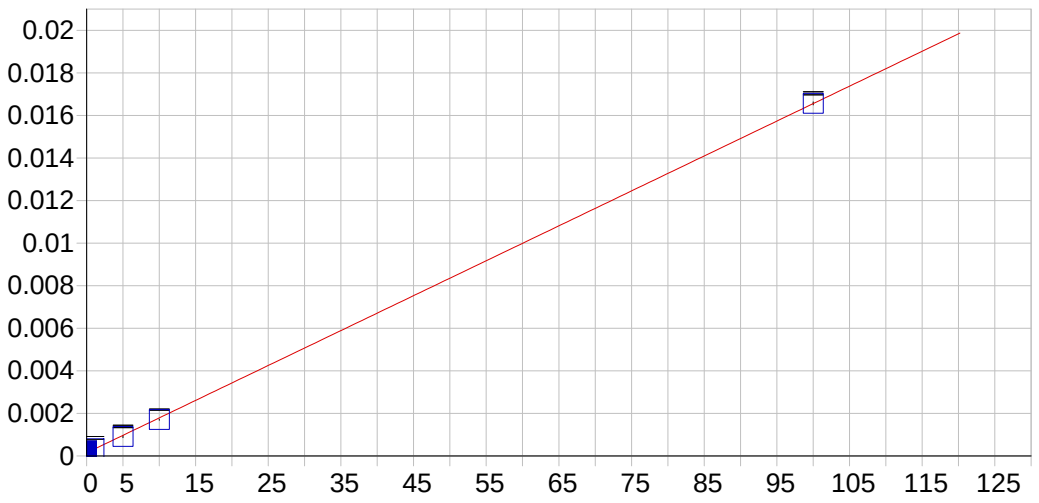
Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**-.090**	**-10.3**	**-3.38**	**-.039**	**.007**	**-27.2**	**-.074**	**-.316**	**-.502**	**-.126**	**-35.1**	**-4.20**
Stddev	.425	1.8	3.67	.444	.101	2.9	.076	.151	.633	.564	1.2	.07
%RSD	473.	17.0	108.	1130.	1380.	10.8	103.	47.7	126.	449.	3.50	1.65
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2216	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**-.220**	**-1.62**	**-.406**	**-2.08**	**-1.67**	**-1.17**	**7.75**	**-6.77**	**.881**	**-1.01**
Stddev	.492	.24	.230	.47	1.83	2.07	5.28	1.56	1.58	.13
%RSD	224.	14.9	56.6	22.8	110.	177.	68.2	23.0	179.	12.5
Check ?	None	None	None	None	None	None	None	None	None	None
Value										
Range										

Int. Std.	Y_3600
Avg	**96604.**
Stddev	1613.
%RSD	1.6694

Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)	Correlation	Std Error of Est	Predicted MDL	Predicted MQL
Ag 328.068 {103}	11/29/2010 14:28:12	11/29/2010 14:28:12	Linear	None	0.000149	0.000164	0.000000	1.000000	0.999950	0.000082	0.750653	2.502177
Ag 338.289 {100}	11/29/2010 13:44:25	11/29/2010 13:44:25	Linear	None	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	-1.000000	-1.000000
Al 167.079 {502}	11/29/2010 14:33:14	11/29/2010 14:33:14	Linear	None	0.000005	0.000001	0.000000	1.000000	0.999985	0.000002	5.116132	17.053772
Al 309.271 {109}	11/29/2010 14:50:36	11/29/2010 14:50:36	Linear	1/Conc	0.000777	0.000004	0.000000	1.000000	0.999992	0.000007	21.755675	72.518915
Al 396.152 { 85}	11/29/2010 15:02:54	11/29/2010 15:02:54	Full Fit	1/Conc	-0.000007	0.000007	0.000000	1.010000	0.999986	0.000089	17.280652	57.602174
As 189.042 {479}	11/29/2010 14:38:56	11/29/2010 14:38:56	Linear	1/Conc	0.000002	0.000000	0.000000	1.000000	0.999993	0.000000	14.569907	48.566358
As 193.759 {474}	11/30/2010 12:41:52	11/29/2010 14:33:14	Linear	None	-0.000003	0.000000	0.000000	1.000000	0.999953	0.000003	13.394792	44.649308
Ba 455.403 { 74}	11/29/2010 14:28:12	11/29/2010 14:28:12	Linear	1/Conc	0.000346	0.000354	0.000000	1.000000	0.999584	0.000005	0.517691	1.725638
Ba 493.409 { 68}	11/29/2010 14:38:56	11/29/2010 14:38:56	Linear	1/Conc	0.024320	0.000406	0.000000	1.000000	0.999981	0.000450	0.872765	2.909217
Be 234.861 {144}	11/29/2010 14:33:14	11/29/2010 14:33:14	Linear	None	0.000106	0.000051	0.000000	1.000000	0.999996	0.000110	0.465511	1.551704
Be 313.042 {108}	11/29/2010 14:33:14	11/29/2010 14:33:14	Linear	1/Conc	0.000077	0.000704	0.000000	1.000000	0.999989	0.000002	0.113431	0.378104
Ca 317.933 {106}	11/29/2010 15:02:54	11/29/2010 15:02:54	Full Fit	1/Conc	0.006641	0.000013	-0.000000	0.990000	0.999993	0.000087	3.401242	11.337472
Ca 393.366 { 86}	11/29/2010 14:33:14	11/29/2010 14:33:14	Linear	None	0.003072	0.000385	0.000000	1.000000	0.999986	0.001649	0.346863	1.156209
Ca 396.847 { 85}	11/29/2010 14:38:56	11/29/2010 14:38:56	Linear	1/Conc	0.002441	0.000583	0.000000	1.000000	0.999986	0.000145	0.131460	0.438199
Cd 226.502 {449}	11/29/2010 14:33:14	11/29/2010 14:33:14	Linear	1/Conc	-0.000005	0.000053	0.000000	1.000000	0.999728	0.000001	0.231121	0.770404
Cd 228.802 {447}	11/29/2010 14:33:14	11/29/2010 14:33:14	Linear	None	0.000171	0.000041	0.000000	1.000000	0.999975	0.000226	0.254003	0.846676
Co 228.616 {447}	11/29/2010 14:33:14	11/29/2010 14:33:14	Linear	1/Conc	-0.000002	0.000024	0.000000	1.000000	0.999796	0.000000	0.362995	1.209985
Co 238.892 {141}	11/29/2010 14:38:56	11/29/2010 14:38:56	Linear	1/Conc	-0.000006	0.000005	0.000000	1.000000	1.000000	0.000000	4.447794	14.825980
Cr 267.716 {126}	11/29/2010 14:33:14	11/29/2010 14:33:14	Linear	1/Conc	0.000083	0.000048	0.000000	1.000000	0.999312	0.000002	1.147255	3.824183
Cr 283.563 {119}	11/29/2010 14:44:49	11/29/2010 14:44:49	Linear	1/Conc	0.000038	0.000014	0.000000	1.000000	0.999975	0.000009	3.164401	10.548005
Cu 224.700 {450}	11/29/2010 14:38:56	11/29/2010 14:38:56	Linear	1/Conc	0.000046	0.000010	0.000000	1.000000	0.999849	0.000002	1.053570	3.511902
Cu 324.754 {104}	11/29/2010 14:44:49	11/29/2010 14:44:49	Linear	None	0.001803	0.000003	0.000000	1.000000	0.999927	0.002137	19.765185	65.883951
Cu 327.396 {103}	11/29/2010 14:33:14	11/29/2010 14:33:14	Linear	None	0.003126	0.000066	0.000000	1.000000	0.999955	0.000276	1.929896	6.432986
Fe 234.349 {144}	11/29/2010 15:02:54	11/29/2010 15:02:54	Full Fit	1/Conc	0.000115	0.000001	0.000000	1.030000	0.999991	0.000012	26.149134	87.163780
Fe 239.562 {141}	11/29/2010 14:38:56	11/29/2010 14:38:56	Linear	None	0.000284	0.000005	0.000000	1.000000	0.999977	0.000263	3.758813	12.529376
Fe 259.940 {130}	12/01/2010 12:56:40	11/29/2010 14:33:14	Linear	None	12.944856	0.326141	0.000000	1.000000	0.996143	14.258800	9.293138	30.977125
Mg 279.079 {121}	11/29/2010 15:02:54	11/29/2010 15:02:54	Full Fit	None	-0.000066	0.000001	0.000000	0.980000	0.999999	0.000369	61.851101	206.170336
Mg 279.553 {121}	11/29/2010 14:22:50	11/29/2010 14:22:50	Linear	None	0.000133	0.000175	0.000000	1.000000	0.999949	0.000047	0.135029	0.450096
Mg 280.270 {120}	11/29/2010 14:38:56	11/29/2010 14:38:56	Linear	1/Conc	0.000057	0.000151	0.000000	1.000000	0.999931	0.000323	0.206956	0.689854
Mn 257.610 {131}	11/29/2010 14:38:56	11/29/2010 14:38:56	Linear	1/Conc	-0.000035	0.000092	0.000000	1.000000	0.999955	0.000003	0.451911	1.506371
Mn 259.373 {130}	11/29/2010 14:44:49	11/29/2010 14:44:49	Linear	1/Conc	0.000030	0.000066	0.000000	1.000000	0.999958	0.000284	0.618200	2.060668
Mo 202.030 {467}	11/29/2010 14:33:14	11/29/2010 14:33:14	Linear	None	0.000012	0.000006	0.000000	1.000000	0.999989	0.000010	0.982107	3.273690
Mo 203.844 {465}	11/29/2010 14:33:14	11/29/2010 14:33:14	Linear	None	0.000011	0.000003	0.000000	1.000000	0.999989	0.000005	1.977565	6.591883
Mo 204.598 {465}	11/29/2010 14:38:56	11/29/2010 14:38:56	Linear	1/Conc	0.000004	0.000004	0.000000	1.000000	0.999981	0.000001	1.533800	5.112667
Ni 221.647 {452}	11/29/2010 14:38:56	11/29/2010 14:38:56	Linear	1/Conc	0.318728	1.473390	0.000000	1.000000	0.999865	1.139195	0.574955	1.916516
Ni 231.604 {445}	11/29/2010 14:33:14	11/29/2010 14:33:14	Linear	None	-0.148209	1.131184	0.000000	1.000000	0.999976	2.527325	0.625252	2.084174
Pb 216.999 {455}	11/29/2010 14:44:49	11/29/2010 14:44:49	Full Fit	None	0.000012	0.000001	0.000000	0.960000	1.000000	0.000000	8.945351	29.817838
Pb 220.353 {453}	11/29/2010 14:33:14	11/29/2010 14:33:14	Linear	1/Conc	-0.000007	0.000005	0.000000	1.000000	0.999616	0.000000	2.141912	7.139708
Sb 206.833 {463}	11/29/2010 14:38:57	11/29/2010 14:38:57	Linear	1/Conc	0.000014	0.000002	0.000000	1.000000	0.999373	0.000001	4.151887	13.839624
Sb 217.581 {455}	11/29/2010 14:38:57	11/29/2010 14:38:57	Linear	1/Conc	0.000005	0.000002	0.000000	1.000000	0.999479	0.000001	5.174056	17.246853
Se 196.090 {472}	11/30/2010 12:52:25	11/29/2010 14:38:57	Linear	1/Conc	0.000010	0.000000	0.000000	1.000000	0.999874	0.000000	13.937161	46.457203
Se 206.279 {463}	11/30/2010 12:47:49	11/29/2010 14:38:57	Linear	None	-0.000001	0.000000	0.000000	1.000000	0.999998	0.000002	57.647198	192.157326
Tl 190.856 {477}	11/30/2010 13:12:13	11/29/2010 14:38:57	Full Fit	1/Conc	-0.000001	0.000001	-0.000000	1.010000	0.999898	0.000000	7.504357	25.014524
Tl 276.787 {122}	11/29/2010 14:38:57	11/29/2010 14:38:57	Linear	None	0.000014	0.000000	0.000000	1.000000	0.999993	0.000010	156.463453	521.544842

Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)	Correlation	Std Error of Est	Predicted MDL	Predicted MQL
V 290.882 {116}	11/29/2010 14:38:57	11/29/2010 14:38:57	Linear	1/Conc	0.001482	0.000084	0.000000	1.000000	0.999997	0.000034	0.854991	2.849969
V 292.402 {115}	11/30/2010 12:34:27	11/29/2010 14:33:15	Linear	None	0.000066	0.000054	0.000000	1.000000	0.999994	0.000078	1.321853	4.406176
Zn 206.200 {463}	11/29/2010 14:44:49	11/29/2010 14:44:49	Full Fit	None	0.000131	0.000013	-0.000000	1.000000	1.000000	0.000000	0.455110	1.517034
Zn 213.856 {458}	11/29/2010 14:33:15	11/29/2010 14:33:15	Linear	1/Conc	0.000035	0.000027	0.000000	1.000000	0.999888	0.000002	0.257457	0.858191
Y 360.073 { 94}*	11/29/2010 13:44:25	11/29/2010 13:44:25	Linear	None	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	-1.000000	-1.000000
B 249.773 {135}	11/29/2010 14:33:15	11/29/2010 14:33:15	Linear	None	0.000023	0.000008	0.000000	1.000000	0.999996	0.000014	4.511657	15.038857
Li 670.784 { 50}	11/29/2010 14:33:15	11/29/2010 14:33:15	Linear	None	0.000268	0.000134	0.000000	1.000000	0.999992	0.000230	1.989618	6.632061
Na 330.298 {102}	11/29/2010 14:50:36	11/29/2010 14:50:36	Linear	1/Conc	0.000033	0.000000	0.000000	1.000000	1.000000	0.000000	3215.59022	10718.6340
Si 251.611 {134}	11/29/2010 14:33:15	11/29/2010 14:33:15	Linear	None	0.000105	0.000000	0.000000	1.000000	1.000000	0.000000	359.657868	1198.85956
Sr 407.771 { 83}	11/29/2010 14:38:57	11/29/2010 14:38:57	Linear	1/Conc	-0.003909	0.000965	0.000000	1.000000	0.999989	0.000018	0.114919	0.383064
Ti 334.941 {101}	11/29/2010 14:33:15	11/29/2010 14:33:15	Linear	1/Conc	-0.000015	0.000055	0.000000	1.000000	0.999901	0.000004	1.186034	3.953447

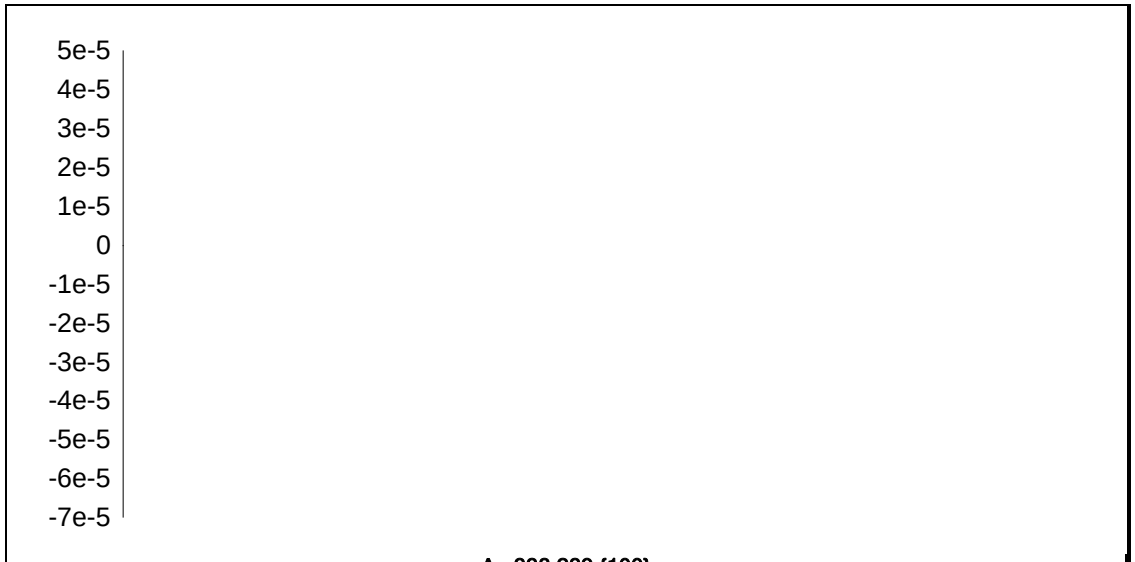


Ag 328.068 {103}

Date of Fit:	11/29/2010 14:28:12	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000149	Re-Slope:	1.000000
A1 (Gain):	0.000164	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999950	Status:	OK.
Std Error of Est:	0.000082		
Predicted MDL:	0.750653		
Predicted MQL:	2.502177		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.51260	.513	.000	.00023	.000	1
CalibStd=100	100.00	100.07	.067	.067	.01657	.000	1
CalibStd=10	10.000	9.4778	-.522	-5.22	.00170	.000	1
CalibStd=1	1.0000	1.2921	.292	29.2	.00036	.000	1
CalibStd=5	5.0000	4.6507	-.349	-6.99	.00091	.000	1

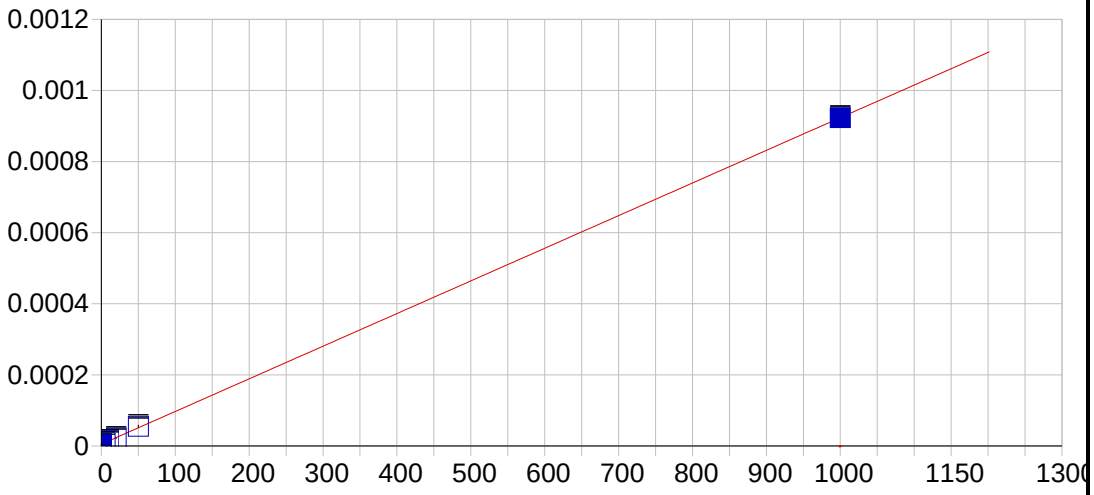


Ag 338.289 {100}

Date of Fit:	11/29/2010 13:44:25	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning Zero Gain
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00001	.000	1

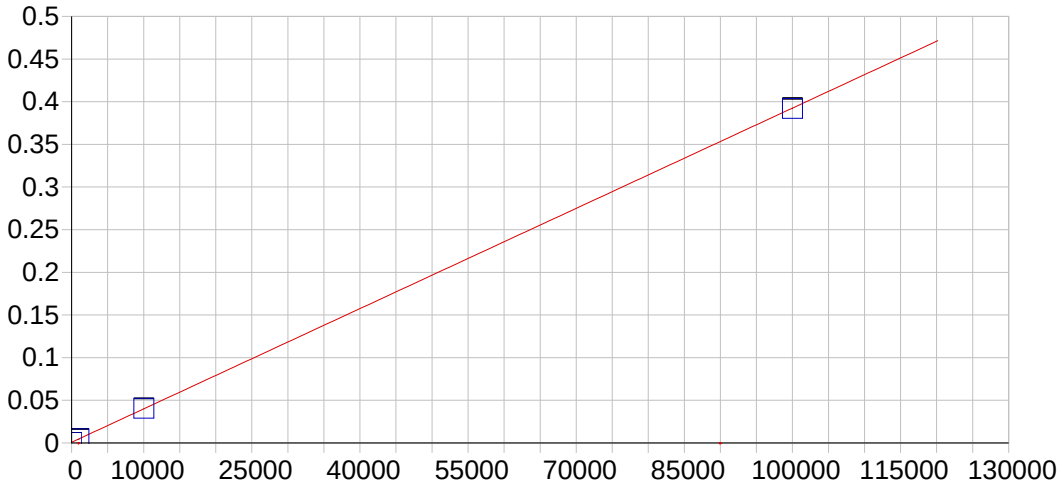


Al 167.079 {502}

Date of Fit:	11/29/2010 14:33:14	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000005	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999985	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	5.116132		
Predicted MQL:	17.053772		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-1.4034	-1.40	.000	.00000	.000	1
CalibStd=100	1000.0	999.82	-.179	-.018	.00092	.000	1
CalibStd=20	20.000	18.778	-1.22	-6.11	.00002	.000	1
CalibStd=10	10.000	10.323	.323	3.23	.00001	.000	1
CalibStd=5	5.0000	3.3093	-1.69	-33.8	.00001	.000	1
CalibStd=50	50.000	54.173	4.17	8.35	.00005	.000	1

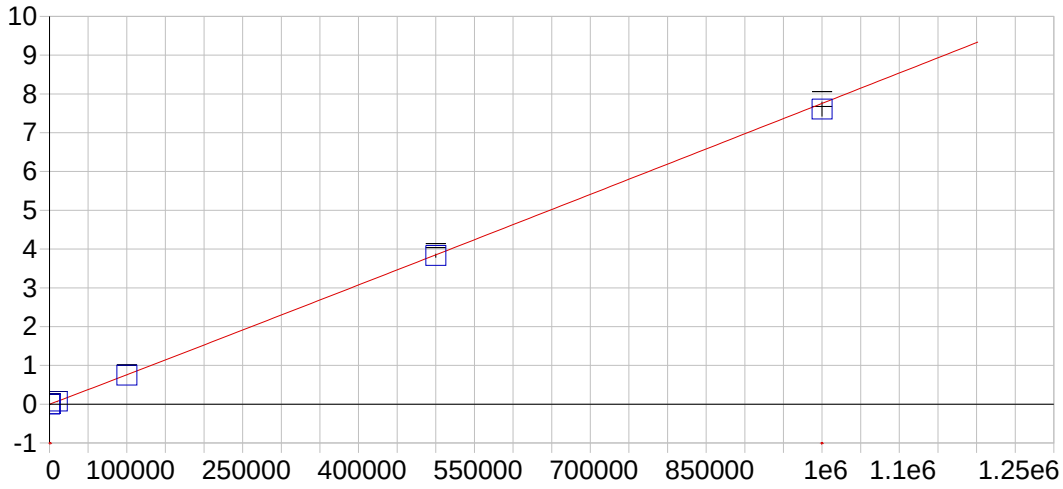


Al 309.271 {109}

Date of Fit:	11/29/2010 14:50:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000777	Re-Slope:	1.000000
A1 (Gain):	0.000004	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999992	Status:	OK.
Std Error of Est:	0.000007		
Predicted MDL:	21.755675		
Predicted MQL:	72.518915		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00420	-.004	.000	.00078	.000	1
CalibStd=100	10000.	10125.	125.	1.25	.04044	.000	1
CalibStd=100	100000.	99883.	-117.	-.117	.39206	.001	1
CalibStd=100	1000.0	992.92	-7.08	-.708	.00467	.000	1

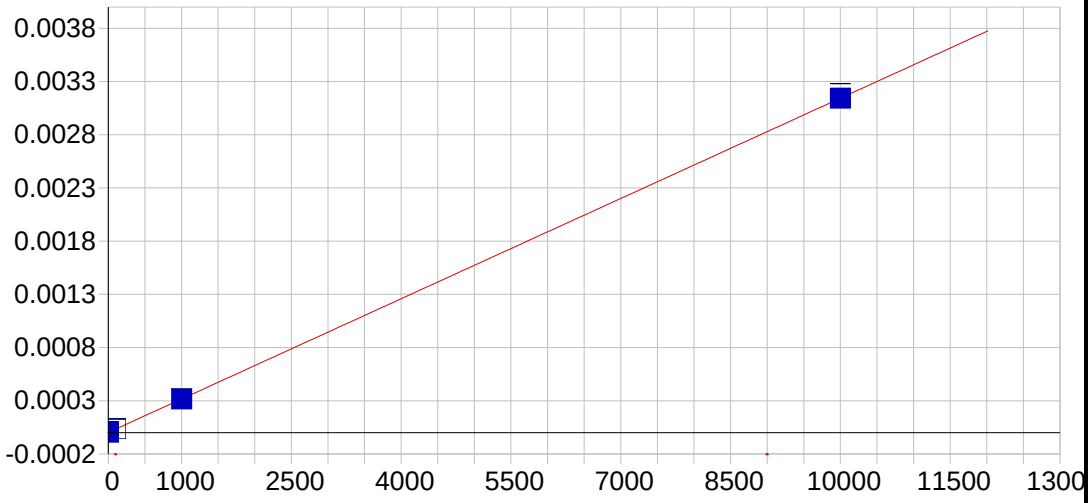


Al 396.152 { 85}

Date of Fit:	11/29/2010 15:02:54	Type of Fit:	Full Fit	Weighting:	1/Conc

A0 (Offset):	-0.000007	Re-Slope:	1.000000
A1 (Gain):	0.000007	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.010000		
Correlation:	0.999986	Status:	OK.
Std Error of Est:	0.000089		
Predicted MDL:	17.280652		
Predicted MQL:	57.602174		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00001	.000	1
CalibStd=100	100000.	98361.	-1640.	-1.64	.74539	.002	1
CalibStd-100	1000000.	981200.	-18800.	-1.88	7.6088	.190	1
CalibStd=500	500000.	497260.	-2740.	-.548	3.8299	.053	1
CalibStd=100	1000.0	1060.0	60.0	6.00	.00767	.000	1
CalibStd=100	10000.	10374.	374.	3.74	.07686	.000	1

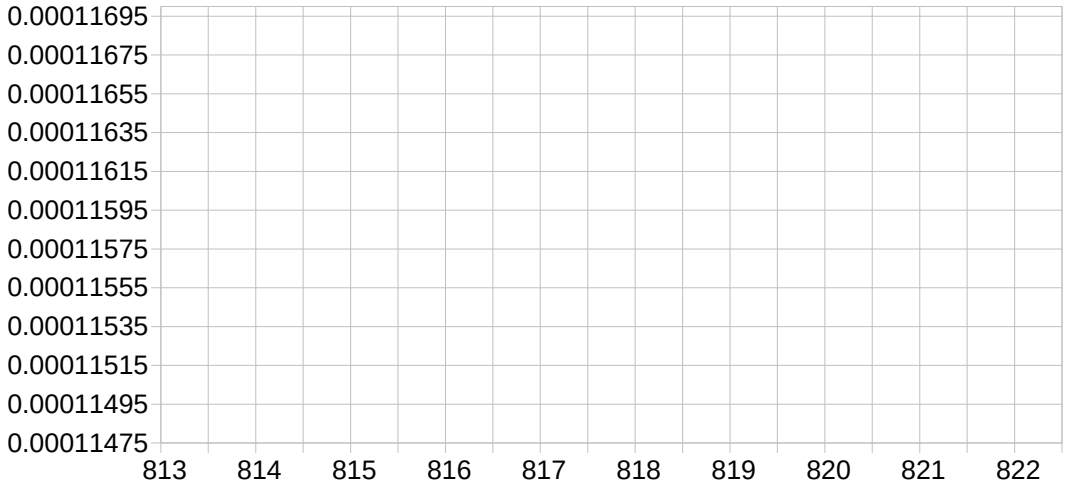


As 189.042 {479}

Date of Fit:	11/29/2010 14:38:56	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000002	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999993	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	14.569907		
Predicted MQL:	48.566358		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00361	-.004	.000	.00000	.000	1
CalibStd=100	1000.0	998.54	-1.46	-.146	.00032	.000	1
CalibStd=100	10000.	9997.7	-2.32	-.023	.00314	.000	1
CalibStd=100	100.00	103.78	3.78	3.78	.00004	.000	1



As 193.759 {474}

Date of Fit:	11/30/2010 12:41:52	Type of Fit:	Linear	Weighting:	None

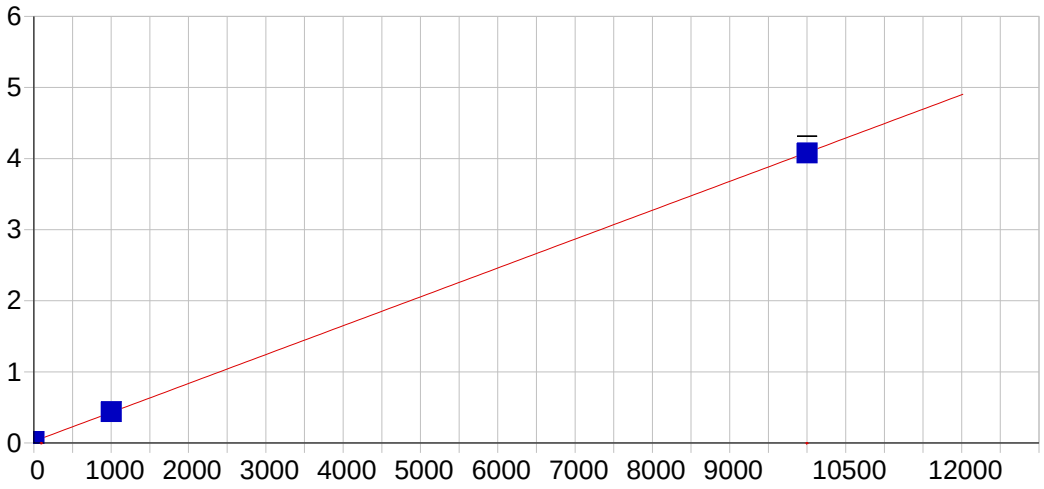
A0 (Offset):	-0.000003	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999953	Status:	OK.
Std Error of Est:	0.000003		
Predicted MDL:	13.394792		
Predicted MQL:	44.649308		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	5.9779	5.98	.000	.00000	.000	1
CalibStd=100	1000.0	1000.6	.587	.059	.00049	.000	1
CalibStd=50	50.000	48.617	-1.38	-2.77	.00002	.000	1
CalibStd=10	10.000	2.3844	-7.62	-76.2	.00000	.000	0
CalibStd=100	100.00	94.819	-5.18	-5.18	.00004	.000	1

Ba 455.403 { 74}

Date of Fit:	11/29/2010 14:28:12	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000346		Re-Slope:	1.000000	
A1 (Gain):	0.000354		Y-int:	0.000000	
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.999584		Status:	OK.	
Std Error of Est:	0.000005				
Predicted MDL:	0.517691				
Predicted MQL:	1.725638				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00031	.000	.000	.00035	.000	1
CalibStd=50	50.000	49.634	-.366	-.733	.01793	.000	1
CalibStd=10	10.000	9.9257	-.074	-.743	.00386	.000	1
CalibStd=20	20.000	20.166	.166	.829	.00749	.000	1
CalibStd=100	100.00	101.18	1.18	1.18	.03619	.000	1
CalibStd=1	1.0000	.83163	-.168	-16.8	.00064	.000	1
CalibStd=5	5.0000	4.2660	-.734	-14.7	.00186	.000	1

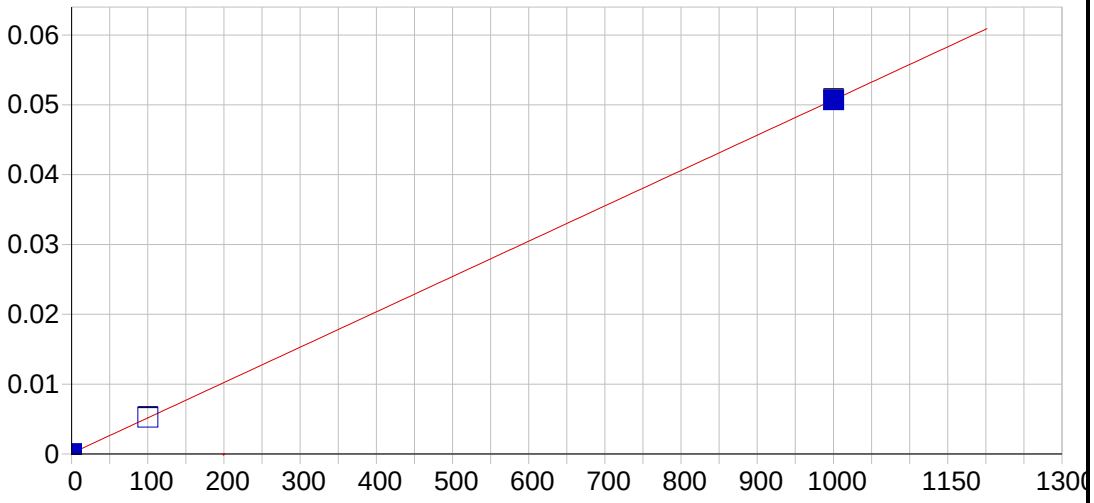


Ba 493.409 { 68}

Date of Fit:	11/29/2010 14:38:56	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.024320	Re-Slope:	1.000000
A1 (Gain):	0.000406	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999981	Status:	OK.
Std Error of Est:	0.000450		
Predicted MDL:	0.872765		
Predicted MQL:	2.909217		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.01735	-.017	.000	.02431	.001	1
CalibStd=100	1000.0	1019.3	19.3	1.93	.43828	.001	1
CalibStd=100	10000.	9980.7	-19.3	-.193	4.0778	.095	1

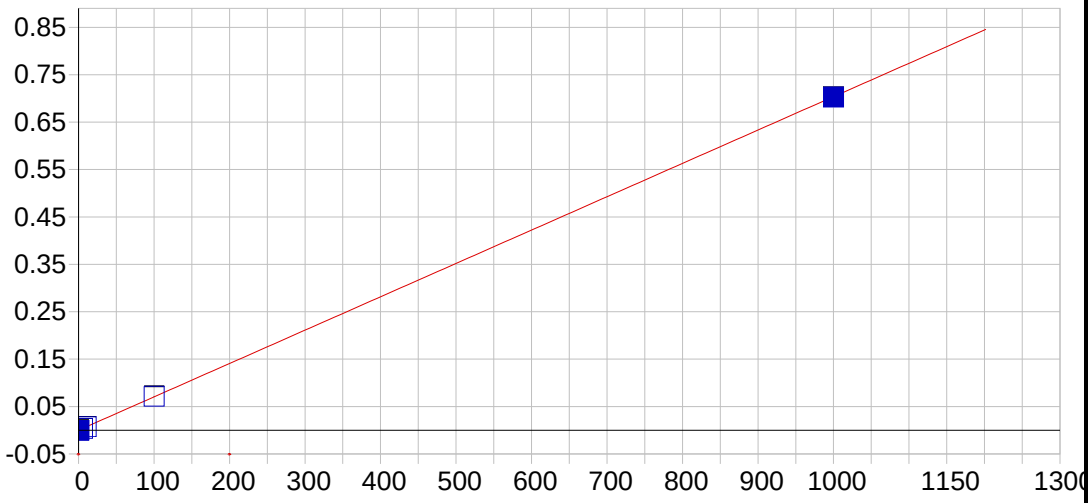


Be 234.861 {144}

Date of Fit:	11/29/2010 14:33:14	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000106	Re-Slope:	1.000000
A1 (Gain):	0.000051	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999996	Status:	OK.
Std Error of Est:	0.000110		
Predicted MDL:	0.465511		
Predicted MQL:	1.551704		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-1.4451	-1.45	.000	.00003	.000	1
CalibStd=100	1000.0	999.84	-.161	-.016	.05070	.000	1
CalibStd=100	100.00	101.61	1.61	1.61	.00525	.000	1

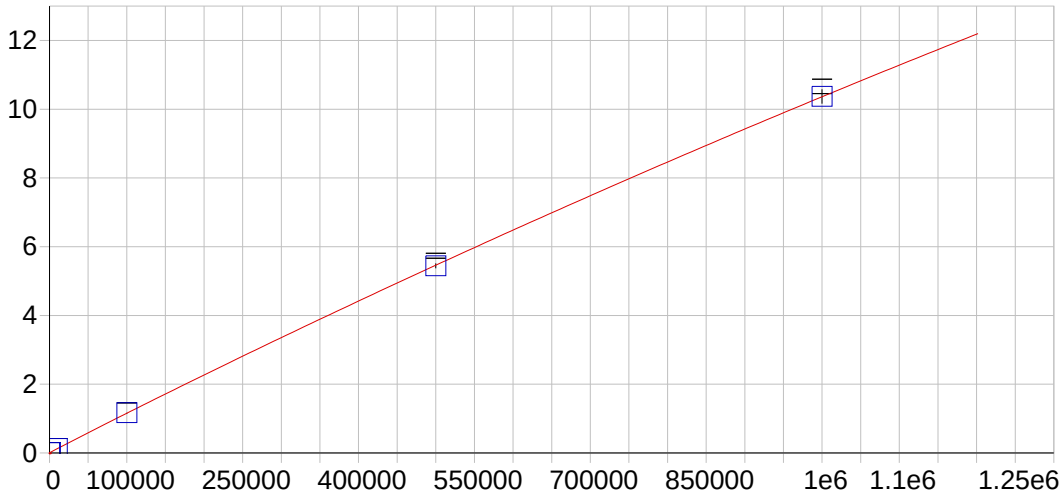


Be 313.042 {108}

Date of Fit:	11/29/2010 14:33:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000077	Re-Slope:	1.000000
A1 (Gain):	0.000704	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999989	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	0.113431		
Predicted MQL:	0.378104		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00003	.000	.000	.00008	.000	1
CalibStd=10	10.000	9.9429	-.057	-.571	.00707	.000	1
CalibStd=100	100.00	101.38	1.38	1.38	.07141	.000	1
CalibStd=0.5	.50000	.52967	.030	5.93	.00045	.000	1
CalibStd=5	5.0000	4.9559	-.044	-.883	.00356	.000	1
CalibStd=0.2	.25000	.26861	.019	7.44	.00027	.000	1
CalibStd=100	1000.0	998.67	-1.33	-.133	.70276	.001	1

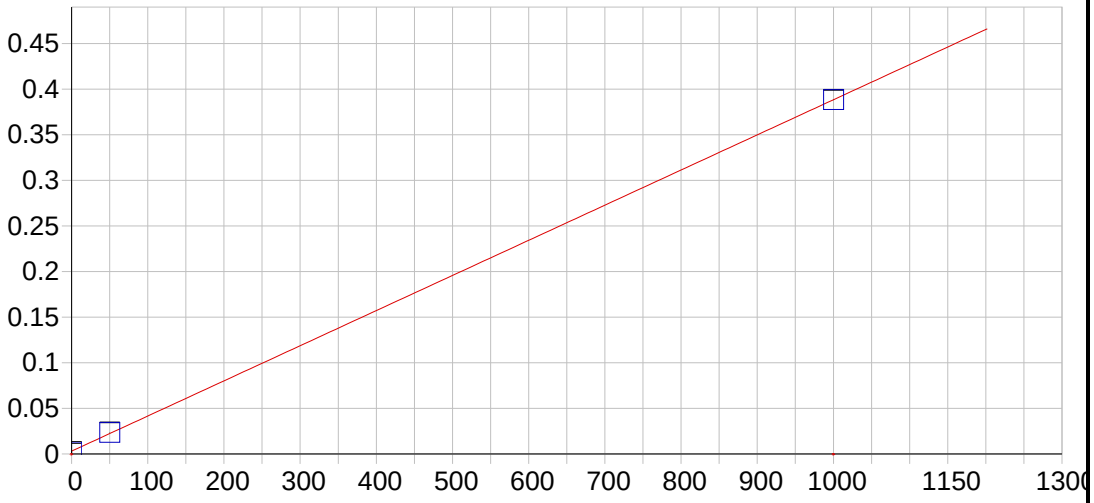


Ca 317.933 {106}

Date of Fit:	11/29/2010 15:02:54	Type of Fit:	Full Fit	Weighting:	1/Conc

A0 (Offset):	0.006641	Re-Slope:	1.000000
A1 (Gain):	0.000013	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	0.990000		
Correlation:	0.999993	Status:	OK.
Std Error of Est:	0.000087		
Predicted MDL:	3.401242		
Predicted MQL:	11.337472		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.03259	.033	.000	.00664	.000	1
CalibStd=100	10000.	9902.9	-97.1	-.971	.12394	.001	1
CalibStd=100	100000.	101070.	1070.	1.07	1.1670	.001	1
CalibStd=500	500000.	498170.	-1830.	-.365	5.4429	.073	1
CalibStd-100	1000000.	1000900.	894.	.089	10.371	.208	1
CalibStd=100	1000.0	965.40	-34.6	-3.46	.01835	.000	1

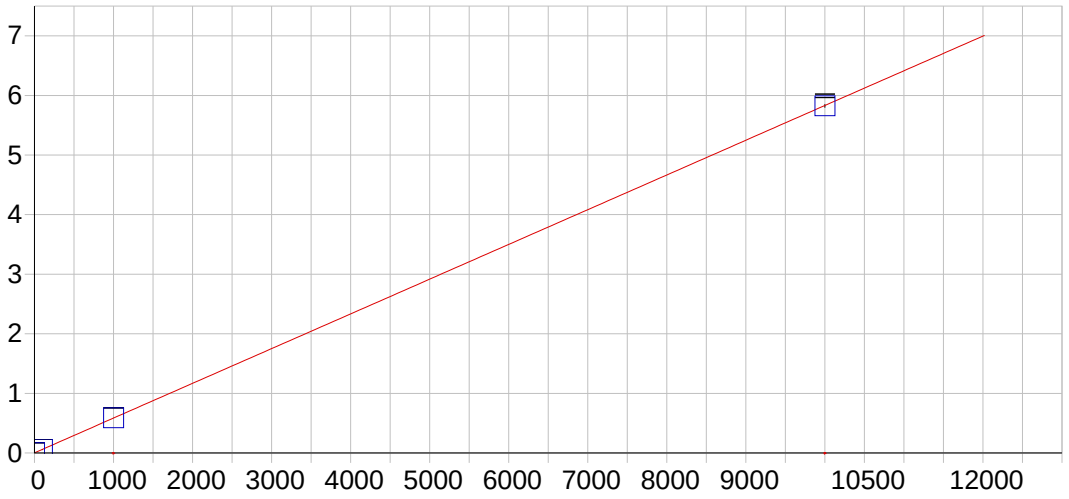


Ca 393.366 { 86}

Date of Fit:	11/29/2010 14:33:14	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.003072	Re-Slope:	1.000000
A1 (Gain):	0.000385	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999986	Status:	OK.
Std Error of Est:	0.001649		
Predicted MDL:	0.346863		
Predicted MQL:	1.156209		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-2.9448	-2.94	.000	.00194	.001	1
CalibStd=50	50.000	53.100	3.10	6.20	.02353	.000	1
CalibStd=100	1000.0	999.85	-.155	-.015	.38834	.000	1

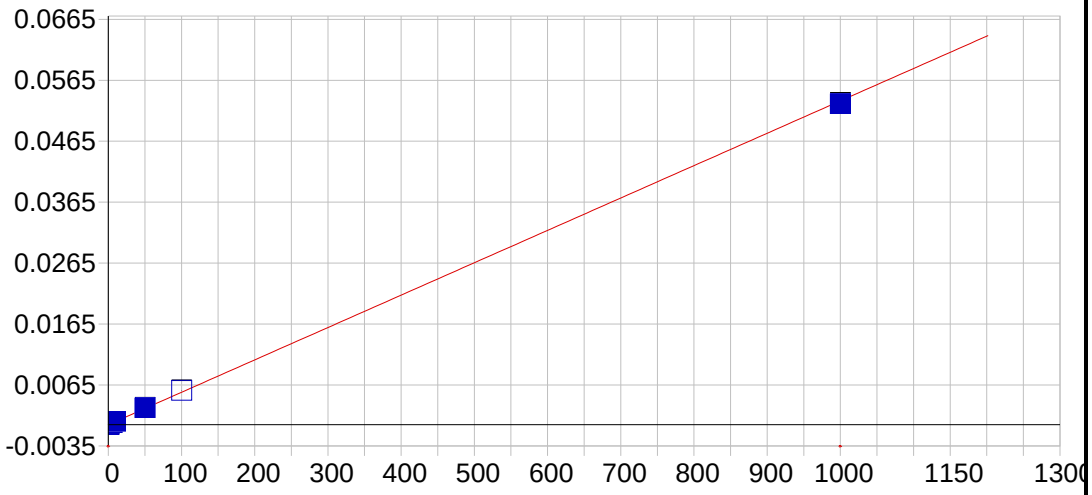


Ca 396.847 { 85}

Date of Fit:	11/29/2010 14:38:56	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002441	Re-Slope:	1.000000
A1 (Gain):	0.000583	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999986	Status:	OK.
Std Error of Est:	0.000145		
Predicted MDL:	0.131460		
Predicted MQL:	0.438199		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00561	-.006	.000	.00244	.001	1
CalibStd=100	10000.	9989.5	-10.5	-.105	5.8251	.030	1
CalibStd=100	100.00	105.19	5.19	5.19	.06375	.000	1
CalibStd=100	1000.0	1005.3	5.26	.526	.58839	.001	1

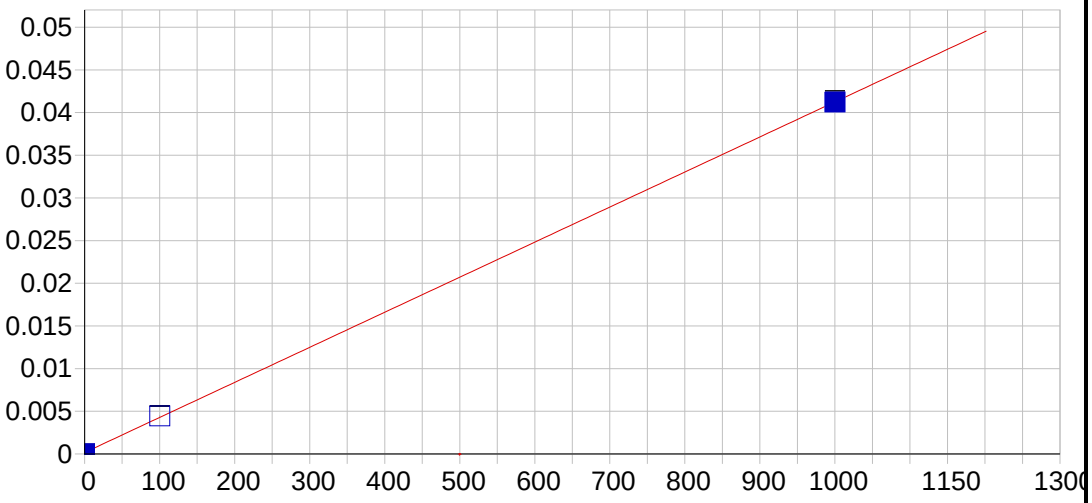


Cd 226.502 {449}

Date of Fit:	11/29/2010 14:33:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000005	Re-Slope:	1.000000
A1 (Gain):	0.000053	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999728	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	0.231121		
Predicted MQL:	0.770404		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00025	.000	.000	.00000	.000	1
CalibStd=50	50.000	52.289	2.29	4.58	.00277	.000	1
CalibStd=1	1.0000	1.0913	.091	9.13	.00005	.000	1
CalibStd=0.5	.50000	.57626	.076	15.3	.00003	.000	1
CalibStd=5	5.0000	5.3816	.382	7.63	.00028	.000	1
CalibStd=0.2	.25000	.39155	.142	56.6	.00002	.000	1
CalibStd=100	100.00	105.66	5.66	5.66	.00561	.000	1
CalibStd=10	10.000	10.174	.174	1.74	.00054	.000	1
CalibStd=100	1000.0	991.19	-8.81	-.881	.05265	.000	1

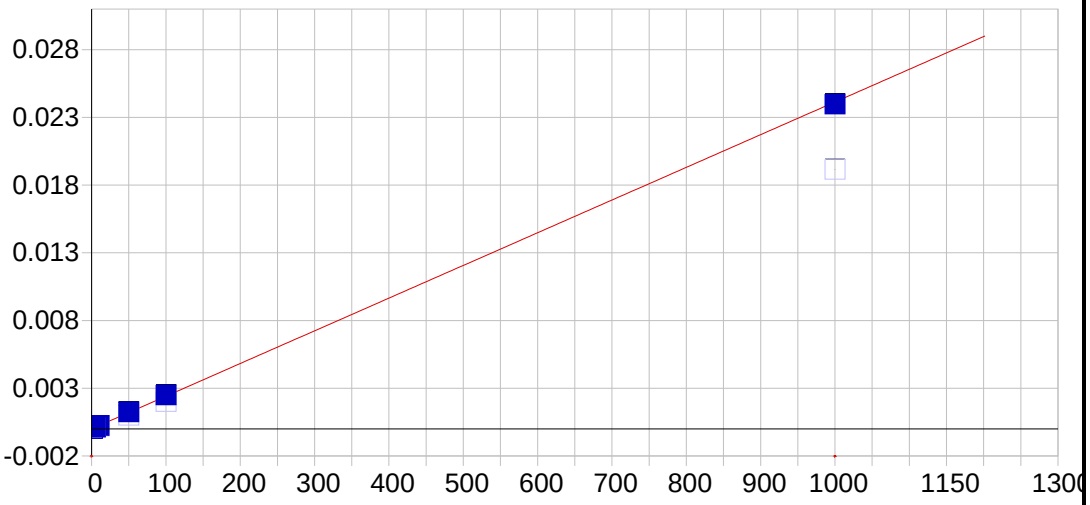


Cd 228.802 {447}

Date of Fit:	11/29/2010 14:33:14	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000171	Re-Slope:	1.000000
A1 (Gain):	0.000041	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999975	Status:	OK.
Std Error of Est:	0.000226		
Predicted MDL:	0.254003		
Predicted MQL:	0.846676		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-3.6742	-3.67	.000	.00002	.000	1
CalibStd=100	1000.0	999.59	-.408	-.041	.04124	.000	1
CalibStd=100	100.00	104.08	4.08	4.08	.00445	.000	1

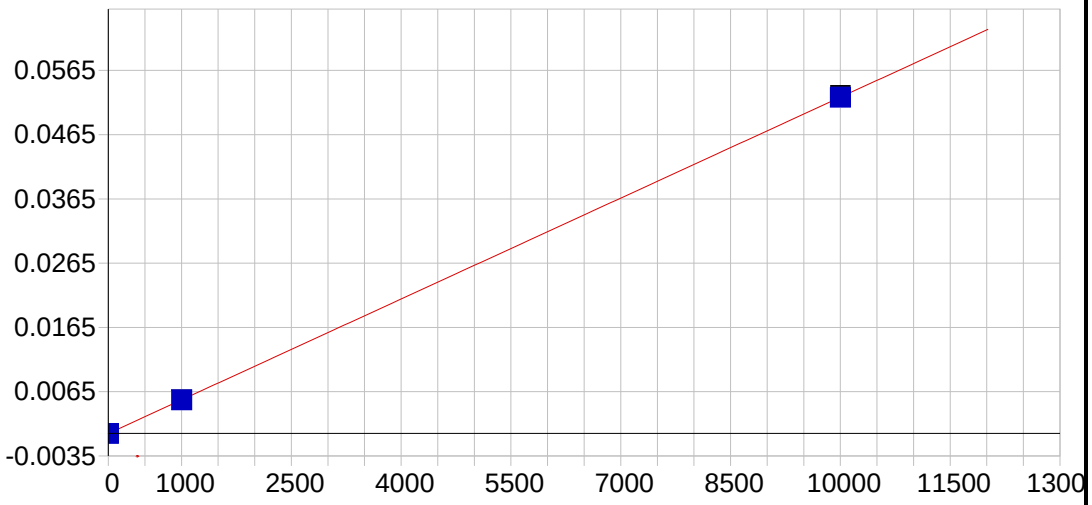


Co 228.616 {447}

Date of Fit:	11/29/2010 14:33:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000002	Re-Slope:	1.000000
A1 (Gain):	0.000024	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999796	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.362995		
Predicted MQL:	1.209985		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00029	.000	.000	.00000	.000	1
CalibStd=50	50.000	51.694	1.69	3.39	.00100	.000	1
CalibStd=10	10.000	10.334	.334	3.34	.00020	.000	1
CalibStd=5	5.0000	5.4350	.435	8.70	.00011	.000	1
CalibStd=1	1.0000	1.1080	.108	10.8	.00002	.000	1
CalibStd=100	100.00	103.82	3.82	3.82	.00202	.000	1
CalibStd=100	1000.0	993.58	-6.42	-.642	.01916	.000	1

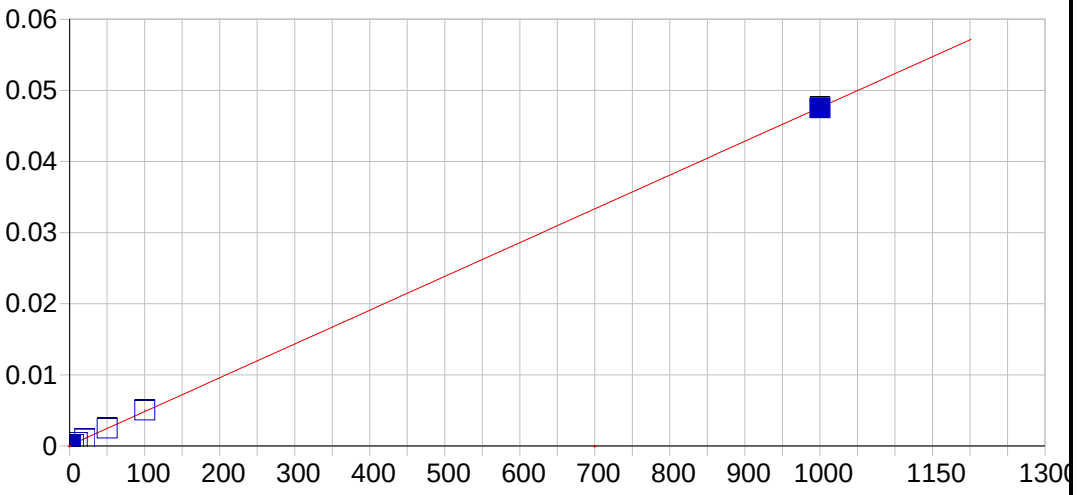


Co 238.892 {141}

Date of Fit:	11/29/2010 14:38:56	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000006	Re-Slope:	1.000000
A1 (Gain):	0.000005	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	4.447794		
Predicted MQL:	14.825980		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00089	.001	.000	-.00001	.000	1
CalibStd=100	1000.0	999.01	-.988	-.099	.00521	.000	1
CalibStd=100	10000.	10001.	.988	.010	.05226	.000	1

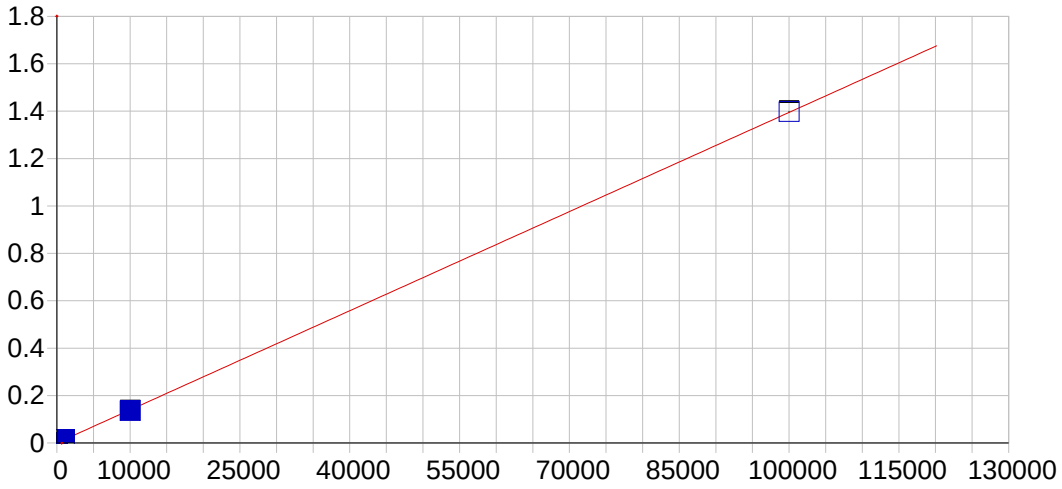


Cr 267.716 {126}

Date of Fit:	11/29/2010 14:33:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000083	Re-Slope:	1.000000
A1 (Gain):	0.000048	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999312	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	1.147255		
Predicted MQL:	3.824183		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00120	.001	.000	.00008	.000	1
CalibStd=10	10.000	8.5756	-1.42	-14.2	.00049	.000	1
CalibStd=5	5.0000	3.1708	-1.83	-36.6	.00023	.000	1
CalibStd=1	1.0000	.26070	-.739	-73.9	.00010	.000	1
CalibStd=50	50.000	50.933	.933	1.87	.00250	.000	1
CalibStd=100	1000.0	998.98	-1.02	-.102	.04756	.000	1
CalibStd=20	20.000	19.714	-.286	-1.43	.00102	.000	1
CalibStd=100	100.00	104.37	4.37	4.37	.00504	.000	1

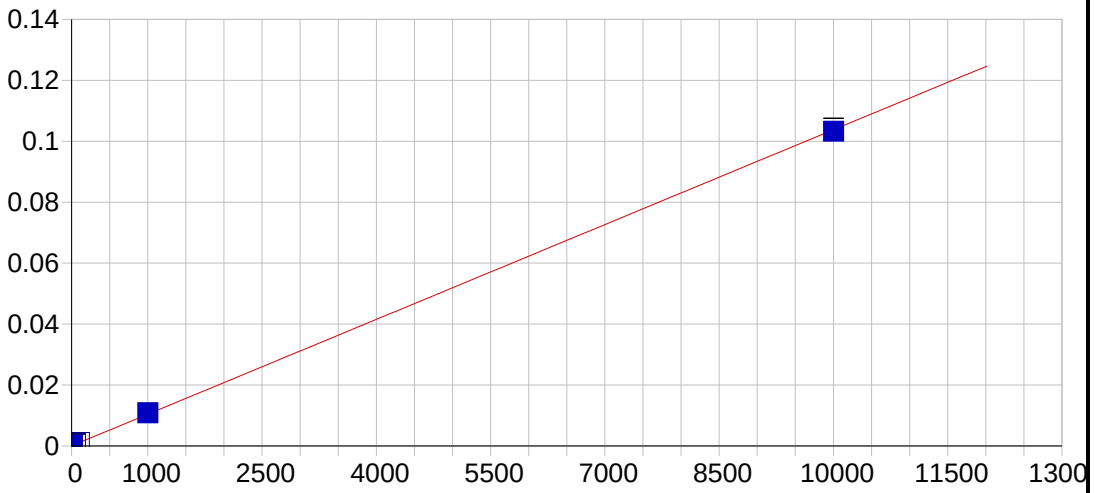


Cr 283.563 {119}

Date of Fit:	11/29/2010 14:44:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000038	Re-Slope:	1.000000
A1 (Gain):	0.000014	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999975	Status:	OK.
Std Error of Est:	0.000009		
Predicted MDL:	3.164401		
Predicted MQL:	10.548005		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00381	.004	.000	.00004	.000	1
CalibStd=50	50.000	47.992	-2.01	-4.02	.00071	.000	1
CalibStd=100	100.00	100.84	.841	.841	.00144	.000	1
CalibStd=100	1000.0	973.69	-26.3	-2.63	.01364	.000	1
CalibStd=100	10000.	9795.6	-204.	-2.04	.13686	.001	1
CalibStd-100	100000.	100230.	232.	.232	1.3980	.003	1

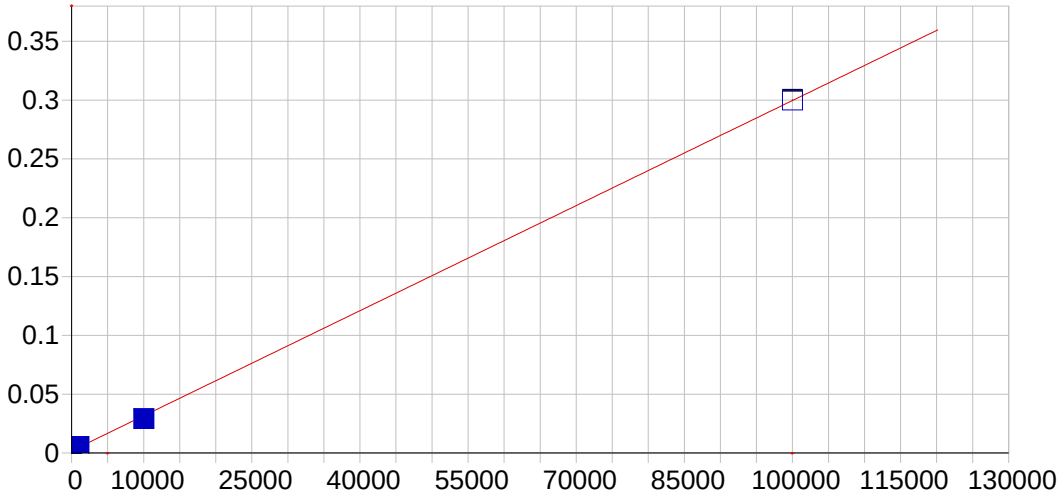


Cu 224.700 {450}

Date of Fit:	11/29/2010 14:38:56	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000046	Re-Slope:	1.000000
A1 (Gain):	0.000010	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999849	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	1.053570		
Predicted MQL:	3.511902		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00226	-.002	.000	.00005	.000	1
CalibStd=100	1000.0	1037.1	37.1	3.71	.01081	.000	1
CalibStd=50	50.000	54.607	4.61	9.21	.00061	.000	1
CalibStd=100	100.00	110.38	10.4	10.4	.00119	.000	1
CalibStd=5	5.0000	6.0083	1.01	20.2	.00011	.000	1
CalibStd=10	10.000	10.225	.225	2.25	.00015	.000	1
CalibStd=100	10000.	9946.7	-53.3	-.533	.10328	.001	1

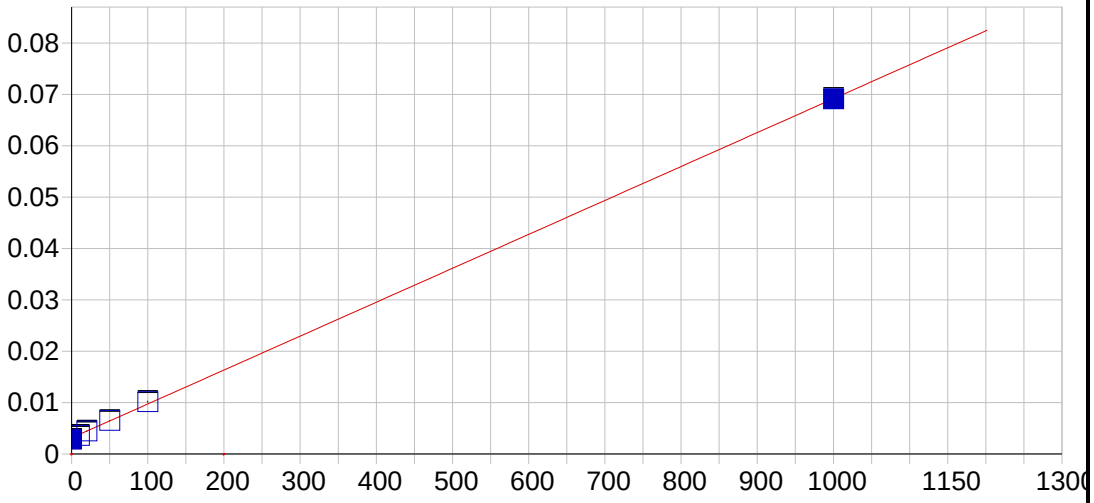


Cu 324.754 {104}

Date of Fit:	11/29/2010 14:44:49	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.001803	Re-Slope:	1.000000
A1 (Gain):	0.000003	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999927	Status:	OK.
Std Error of Est:	0.002137		
Predicted MDL:	19.765185		
Predicted MQL:	65.883951		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	474.25	474.	.000	.00322	.000	1
CalibStd=100	10000.	9155.1	-845.	-8.45	.02908	.000	1
CalibStd-100	100000.	100080.	81.6	.082	.29995	.001	1
CalibStd=100	1000.0	1289.1	289.	28.9	.00564	.000	1

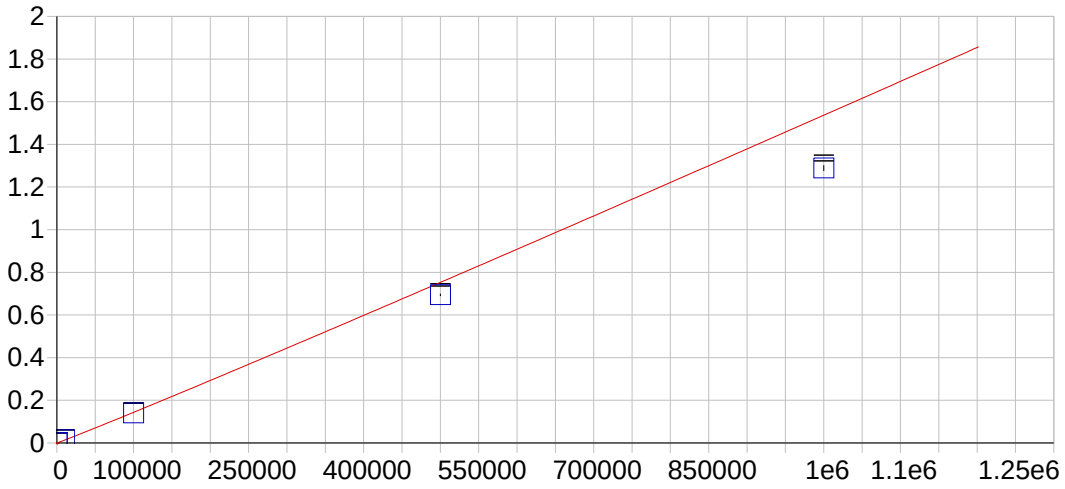


Cu 327.396 {103}

Date of Fit:	11/29/2010 14:33:14	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.003126	Re-Slope:	1.000000
A1 (Gain):	0.000066	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999955	Status:	OK.
Std Error of Est:	0.000276		
Predicted MDL:	1.929896		
Predicted MQL:	6.432986		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-3.9704	-3.97	.000	.00286	.000	1
CalibStd=20	20.000	19.918	-.082	-.409	.00444	.000	1
CalibStd=50	50.000	51.043	1.04	2.09	.00650	.000	1
CalibStd=100	100.00	106.62	6.62	6.62	.01017	.000	1
CalibStd=10	10.000	7.0744	-2.93	-29.3	.00359	.000	1
CalibStd=100	1000.0	999.32	-.683	-.068	.06912	.000	1

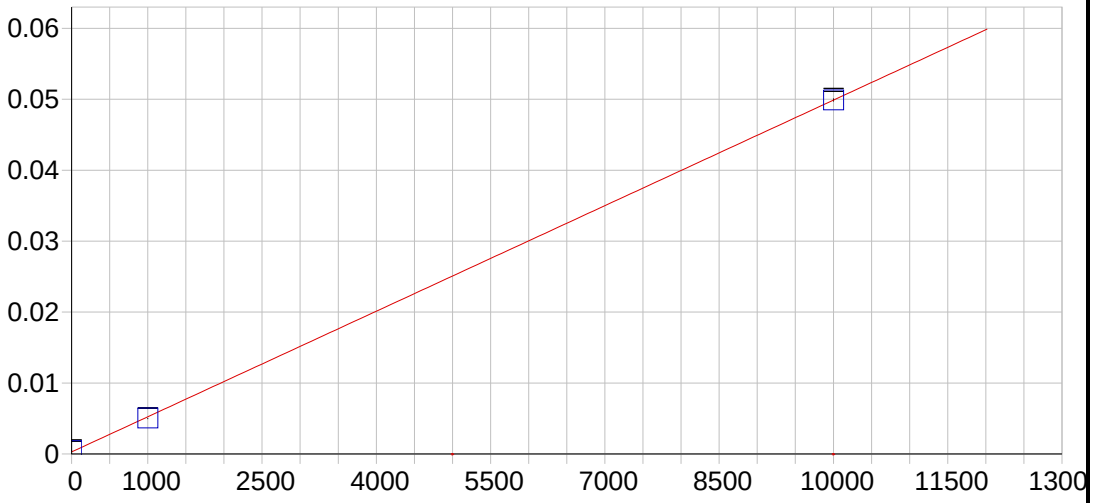


Fe 234.349 {144}

Date of Fit:	11/29/2010 15:02:54	Type of Fit:	Full Fit	Weighting:	1/Conc

A0 (Offset):	0.000115	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.030000		
Correlation:	0.999991	Status:	OK.
Std Error of Est:	0.000012		
Predicted MDL:	26.149134		
Predicted MQL:	87.163780		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00011	.000	1
CalibStd=100	10000.	10371.	371.	3.71	.01401	.000	1
CalibStd=500	500000.	462460.	-37500.	-7.51	.69449	.005	1
CalibStd=100	100000.	97672.	-2330.	-2.33	.14008	.000	1
CalibStd-100	1000000.	842980.	-157000.	-15.7	1.2888	.014	1
CalibStd=100	1000.0	1018.9	18.9	1.89	.00139	.000	1

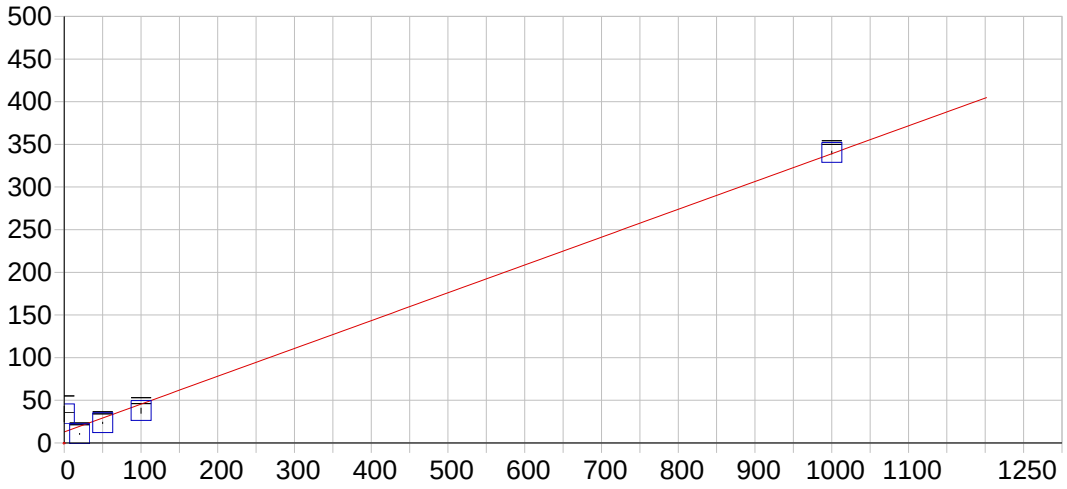


Fe 239.562 {141}

Date of Fit:	11/29/2010 14:38:56	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000284	Re-Slope:	1.000000
A1 (Gain):	0.000005	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999977	Status:	OK.
Std Error of Est:	0.000263		
Predicted MDL:	3.758813		
Predicted MQL:	12.529376		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	35.405	35.4	.000	.00046	.000	1
CalibStd=100	1000.0	960.66	-39.3	-3.93	.00505	.000	1
CalibStd=100	10000.	10004.	3.93	.039	.04990	.000	1

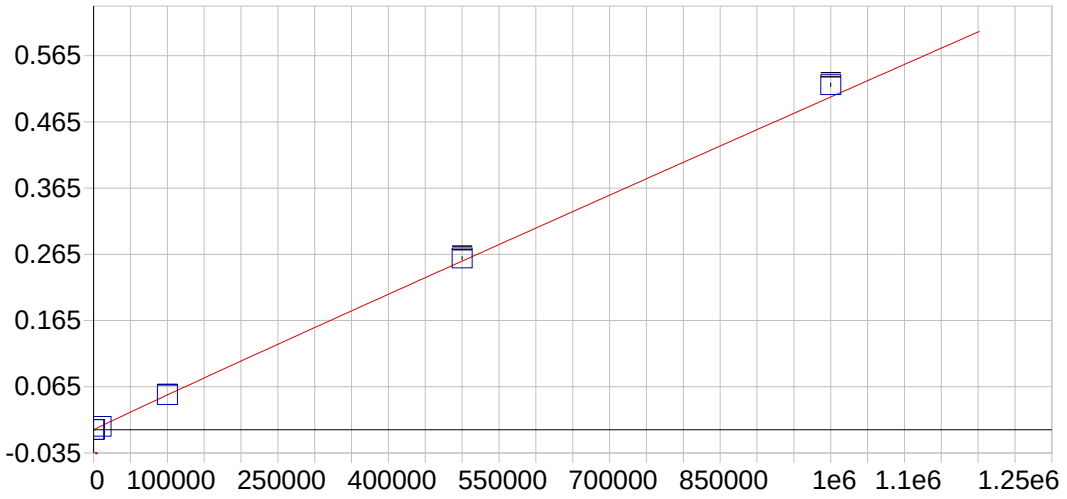


Fe 259.940 {130}

Date of Fit:	12/01/2010 12:56:40	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	12.944856	Re-Slope:	1.000000
A1 (Gain):	0.326141	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.996143	Status:	OK.
Std Error of Est:	14.258800		
Predicted MDL:	9.293138		
Predicted MQL:	30.977125		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	64.258	64.3	.000	33.902	9.50	1
CalibStd=100	1000.0	1003.8	3.78	.378	340.32	2.23	1
CalibStd=50	50.000	32.655	-17.3	-34.7	23.595	1.20	1
CalibStd=100	100.00	76.272	-23.7	-23.7	37.820	3.44	1
CalibStd=20	20.000	-6.9639	-27.0	-135.	10.674	1.03	1

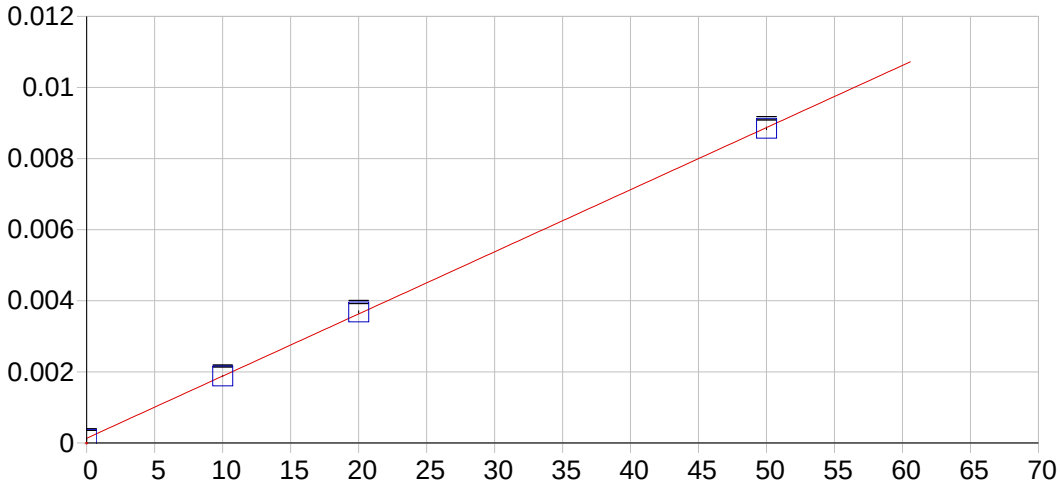


Mg 279.079 {121}

Date of Fit:	11/29/2010 15:02:54	Type of Fit:	Full Fit	Weighting:	None

A0 (Offset):	-0.000066	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	0.980000		
Correlation:	0.999999	Status:	OK.
Std Error of Est:	0.000369		
Predicted MDL:	61.851101		
Predicted MQL:	206.170336		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	136.98	137.	.000	.00002	.000	1
CalibStd=100	100000.	100990.	987.	.987	.05308	.000	1
CalibStd=500	500000.	509320.	9320.	1.86	.25944	.003	1
CalibStd=100	10000.	9277.0	-723.	-7.23	.00505	.000	1
CalibStd-100	1000000.	1037600.	37600.	3.76	.52114	.003	1
CalibStd=100	1000.0	1142.7	143.	14.3	.00059	.000	1

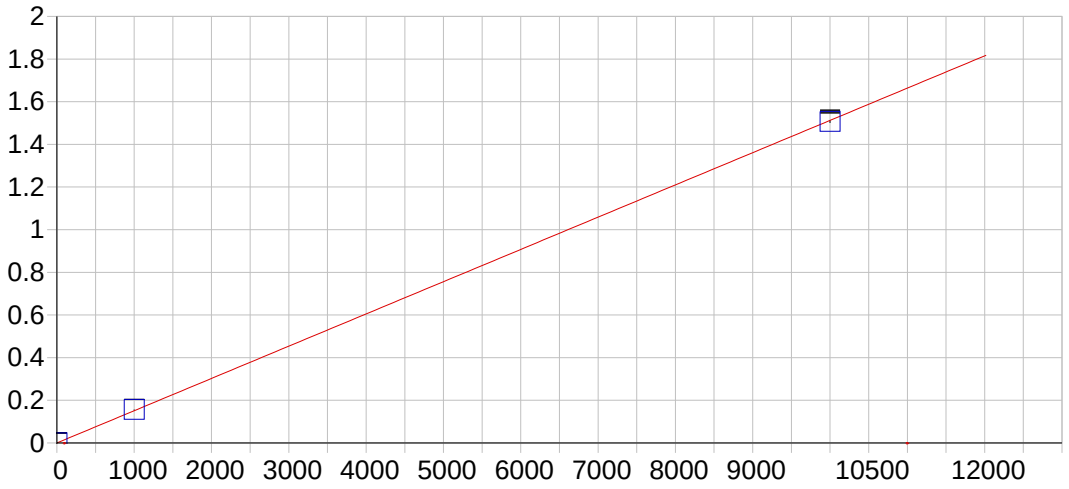


Mg 279.553 {121}

Date of Fit:	11/29/2010 14:22:50	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000133	Re-Slope:	1.000000
A1 (Gain):	0.000175	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999949	Status:	OK.
Std Error of Est:	0.000047		
Predicted MDL:	0.135029		
Predicted MQL:	0.450096		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.19097	-.191	.000	.00010	.000	1
CalibStd=50	50.000	49.876	-.124	-.247	.00885	.000	1
CalibStd=20	20.000	20.303	.303	1.52	.00368	.000	1
CalibStd=10	10.000	10.011	.011	.111	.00188	.000	1

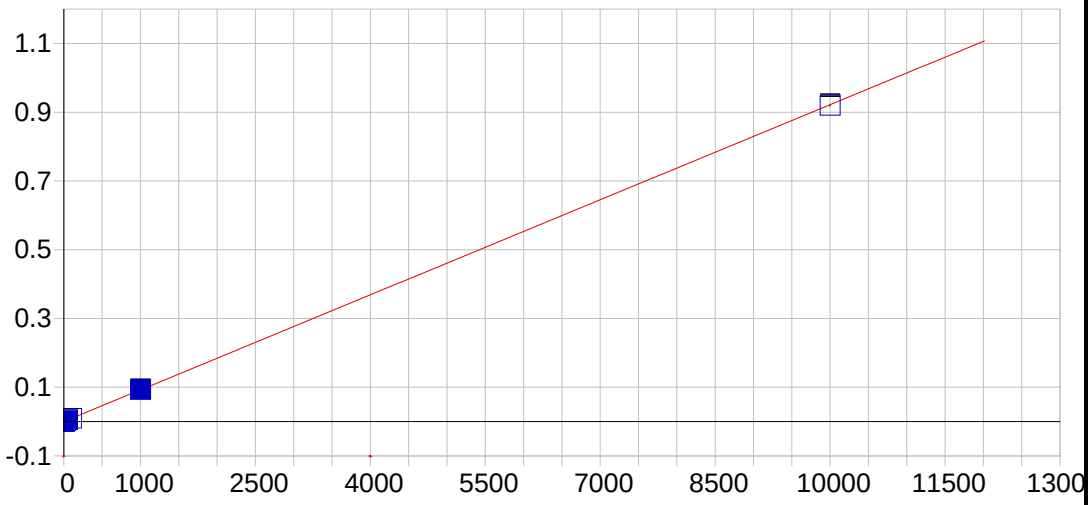


Mg 280.270 {120}

Date of Fit:	11/29/2010 14:38:56	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000057	Re-Slope:	1.000000
A1 (Gain):	0.000151	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999931	Status:	OK.
Std Error of Est:	0.000323		
Predicted MDL:	0.206956		
Predicted MQL:	0.689854		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.03343	-.033	.000	.00005	.000	1
CalibStd=100	1000.0	1037.1	37.1	3.71	.15691	.000	1
CalibStd=100	10000.	9962.9	-37.1	-.371	1.5068	.007	1

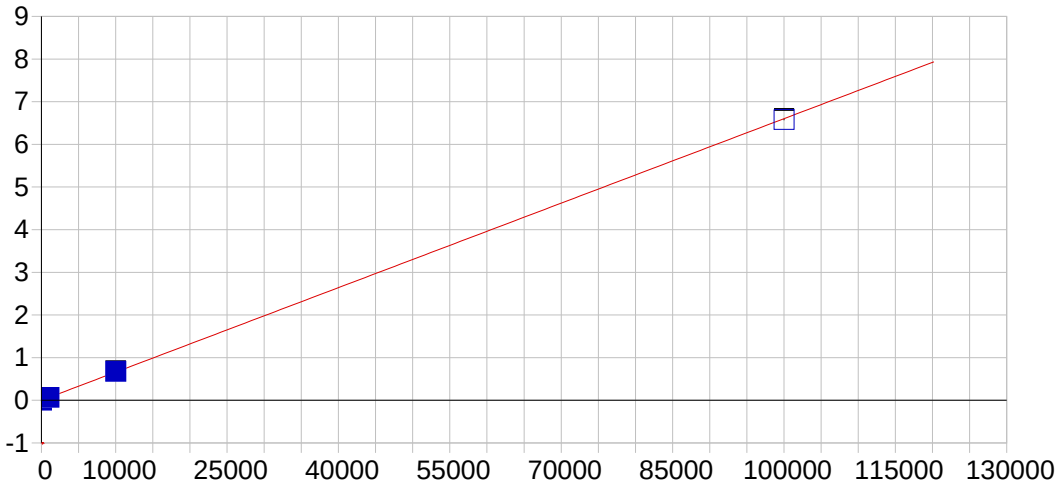


Mn 257.610 {131}

Date of Fit:	11/29/2010 14:38:56	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000035	Re-Slope:	1.000000
A1 (Gain):	0.000092	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999955	Status:	OK.
Std Error of Est:	0.000003		
Predicted MDL:	0.451911		
Predicted MQL:	1.506371		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00082	-.001	.000	-.00004	.000	1
CalibStd=10	10.000	10.818	.818	8.18	.00096	.000	1
CalibStd=50	50.000	52.380	2.38	4.76	.00479	.000	1
CalibStd=20	20.000	21.364	1.36	6.82	.00193	.000	1
CalibStd=100	100.00	105.81	5.81	5.81	.00972	.000	1
CalibStd=5	5.0000	5.6947	.695	13.9	.00049	.000	1
CalibStd=1	1.0000	1.4146	.415	41.5	.00010	.000	1
CalibStd=100	1000.0	1009.6	9.60	.960	.09303	.000	1
CalibStd=100	10000.	9978.9	-21.1	-.211	.91987	.004	1

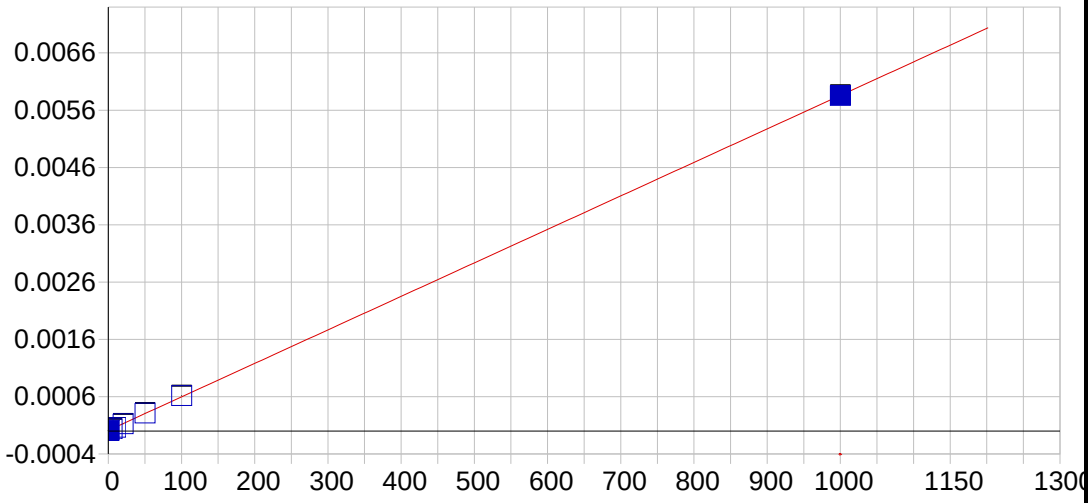


Mn 259.373 {130}

Date of Fit:	11/29/2010 14:44:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000030	Re-Slope:	1.000000
A1 (Gain):	0.000066	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999958	Status:	OK.
Std Error of Est:	0.000284		
Predicted MDL:	0.618200		
Predicted MQL:	2.060668		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.05807	-.058	.000	.00003	.000	1
CalibStd=100	10000.	10267.	267.	2.67	.68134	.002	1
CalibStd-100	100000.	99697.	-303.	-.303	6.5825	.017	1
CalibStd=100	1000.0	1034.4	34.4	3.44	.06867	.000	1

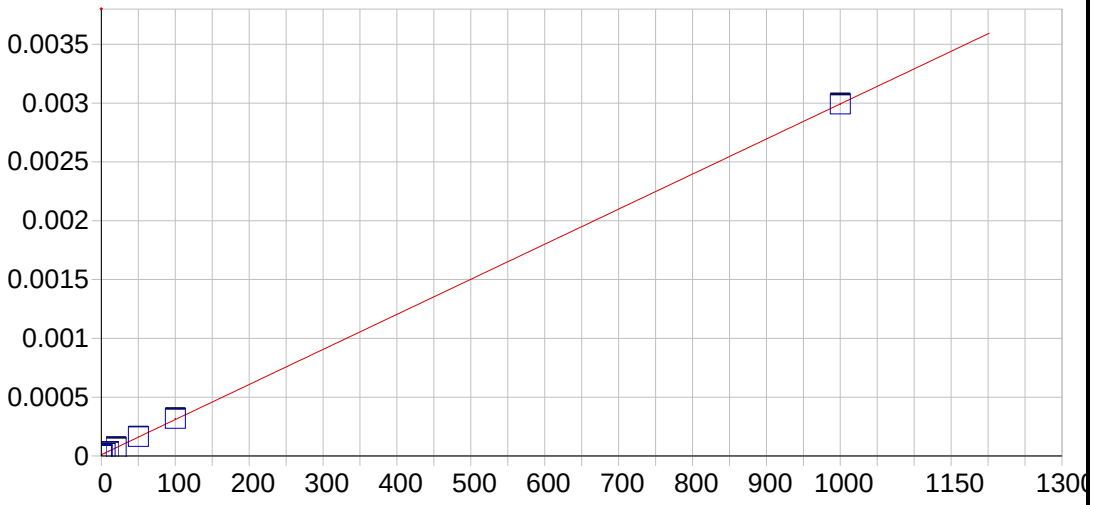


Mo 202.030 {467}

Date of Fit:	11/29/2010 14:33:14	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000012	Re-Slope:	1.000000
A1 (Gain):	0.000006	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999989	Status:	OK.
Std Error of Est:	0.000010		
Predicted MDL:	0.982107		
Predicted MQL:	3.273690		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-1.0419	-1.04	.000	.00001	.000	1
CalibStd=50	50.000	51.600	1.60	3.20	.00031	.000	1
CalibStd=1	1.0000	.37734	-.623	-62.3	.00001	.000	1
CalibStd=20	20.000	19.282	-.718	-3.59	.00012	.000	1
CalibStd=10	10.000	8.6681	-1.33	-13.3	.00006	.000	1
CalibStd=100	100.00	103.36	3.36	3.36	.00062	.000	1
CalibStd=5	5.0000	4.1338	-.866	-17.3	.00004	.000	1
CalibStd=100	1000.0	999.62	-.384	-.038	.00586	.000	1

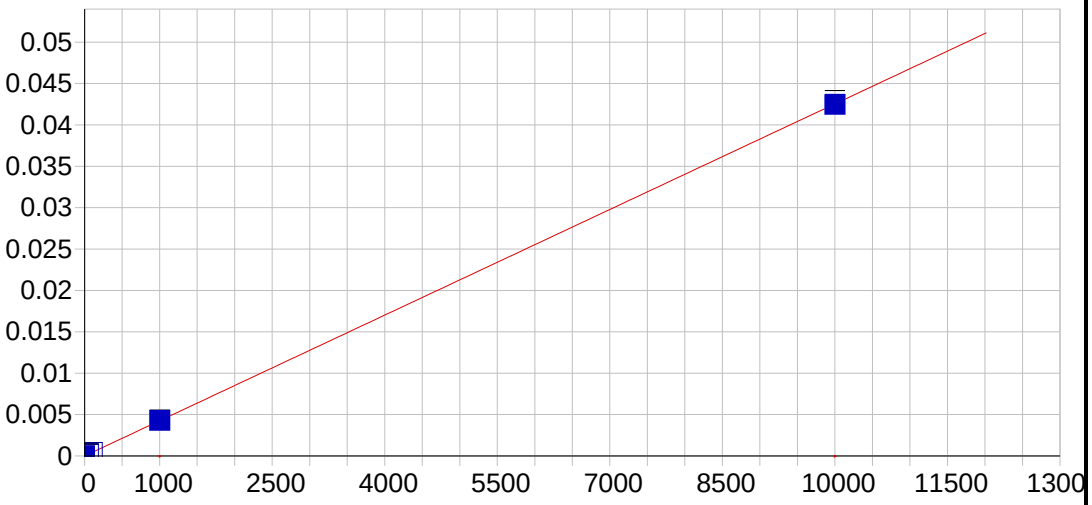


Mo 203.844 {465}

Date of Fit:	11/29/2010 14:33:14	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000011	Re-Slope:	1.000000
A1 (Gain):	0.000003	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999989	Status:	OK.
Std Error of Est:	0.000005		
Predicted MDL:	1.977565		
Predicted MQL:	6.591883		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.93760	-.938	.000	.00001	.000	1
CalibStd=50	50.000	51.404	1.40	2.81	.00016	.000	1
CalibStd=1	1.0000	-.49711	-1.50	-150.	.00001	.000	1
CalibStd=20	20.000	20.503	.503	2.52	.00007	.000	1
CalibStd=10	10.000	8.6029	-1.40	-14.0	.00004	.000	1
CalibStd=100	100.00	103.19	3.19	3.19	.00032	.000	1
CalibStd=5	5.0000	4.1100	-.890	-17.8	.00002	.000	1
CalibStd=100	1000.0	999.62	-.380	-.038	.00299	.000	1

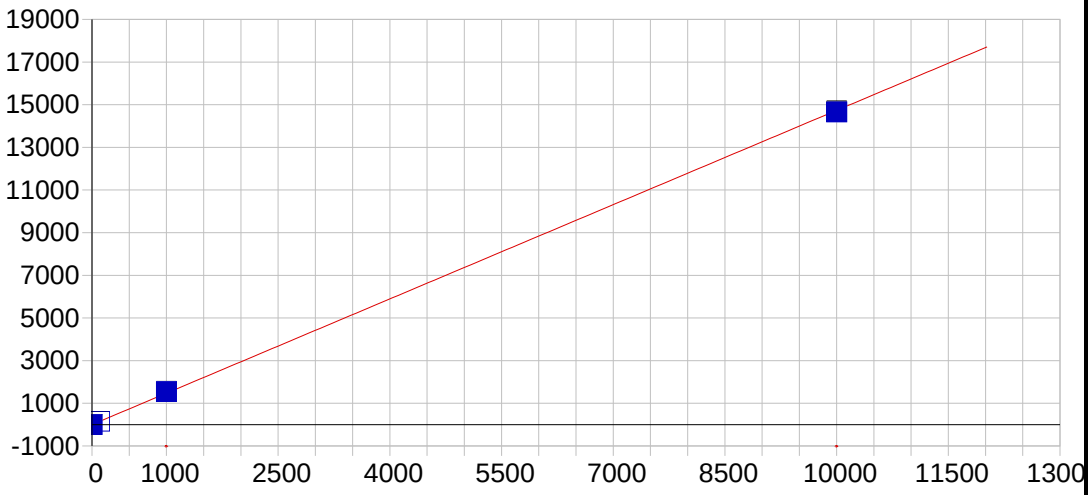


Mo 204.598 {465}

Date of Fit:	11/29/2010 14:38:56	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000004	Re-Slope:	1.000000
A1 (Gain):	0.000004	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999981	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	1.533800		
Predicted MQL:	5.112667		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00529	-.005	.000	.00000	.000	1
CalibStd=100	1000.0	1006.9	6.90	.690	.00429	.000	1
CalibStd=100	10000.	9985.9	-14.1	-.141	.04248	.000	1
CalibStd=50	50.000	52.849	2.85	5.70	.00023	.000	1
CalibStd=100	100.00	104.34	4.34	4.34	.00045	.000	1

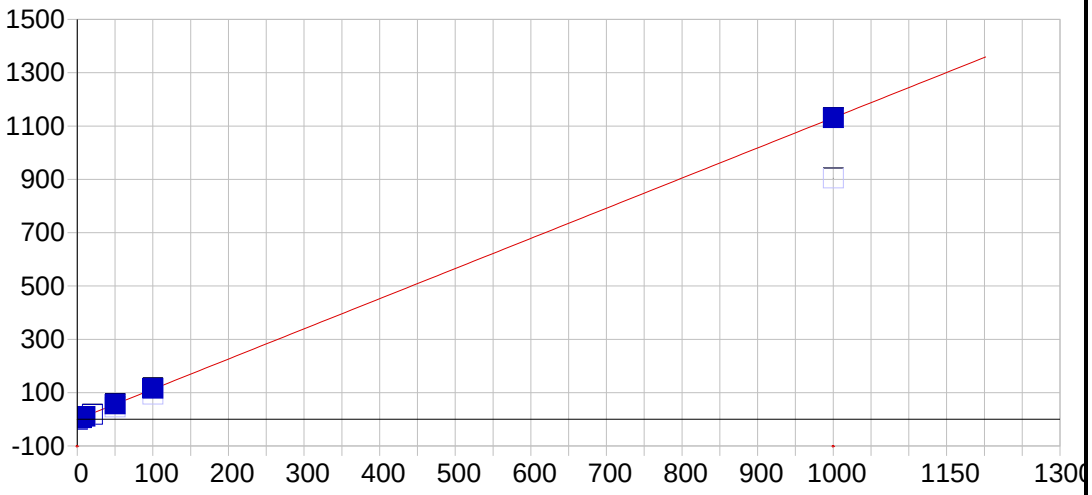


Ni 221.647 {452}

Date of Fit:	11/29/2010 14:38:56	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.318728	Re-Slope:	1.000000
A1 (Gain):	1.473390	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999865	Status:	OK.
Std Error of Est:	1.139195		
Predicted MDL:	0.574955		
Predicted MQL:	1.916516		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.01164	-.012	.000	.30158	.702	1
CalibStd=100	10000.	9946.3	-53.7	-.537	14655.	30.1	1
CalibStd=100	100.00	107.56	7.56	7.56	158.80	.467	1
CalibStd=100	1000.0	1046.2	46.2	4.62	1541.7	5.35	1

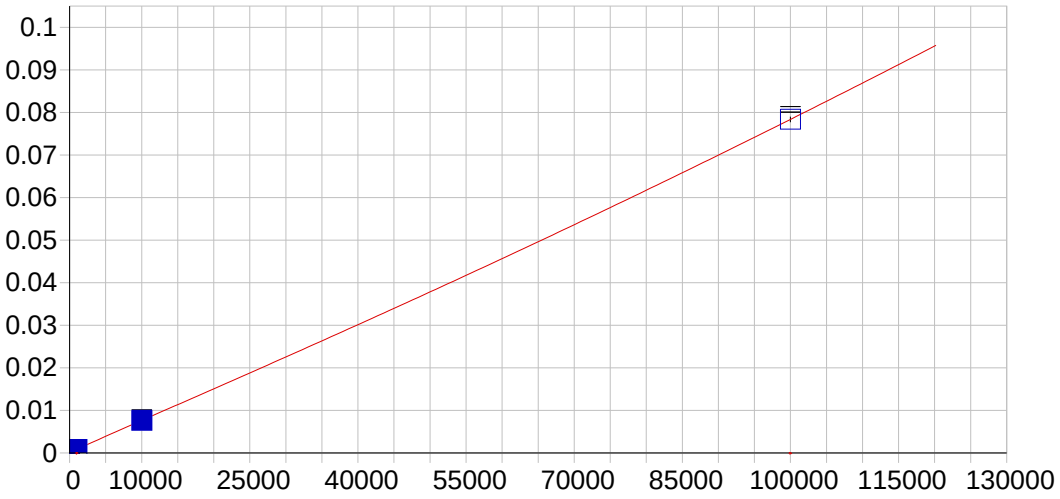


Ni 231.604 {445}

Date of Fit:	11/29/2010 14:33:14	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-0.148209	Re-Slope:	1.000000
A1 (Gain):	1.131184	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999976	Status:	OK.
Std Error of Est:	2.527325		
Predicted MDL:	0.625252		
Predicted MQL:	2.084174		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.27993	-.280	.000	-.46486	.511	1
CalibStd=50	50.000	50.864	.864	1.73	46.076	.210	1
CalibStd=20	20.000	16.123	-3.88	-19.4	18.090	.373	1
CalibStd=10	10.000	10.325	.325	3.25	9.2689	.296	1
CalibStd=100	100.00	102.98	2.98	2.98	93.717	.761	1
CalibStd=5	5.0000	5.2376	.238	4.75	4.6453	.349	1
CalibStd=100	1000.0	999.75	-.249	-.025	904.62	.647	1

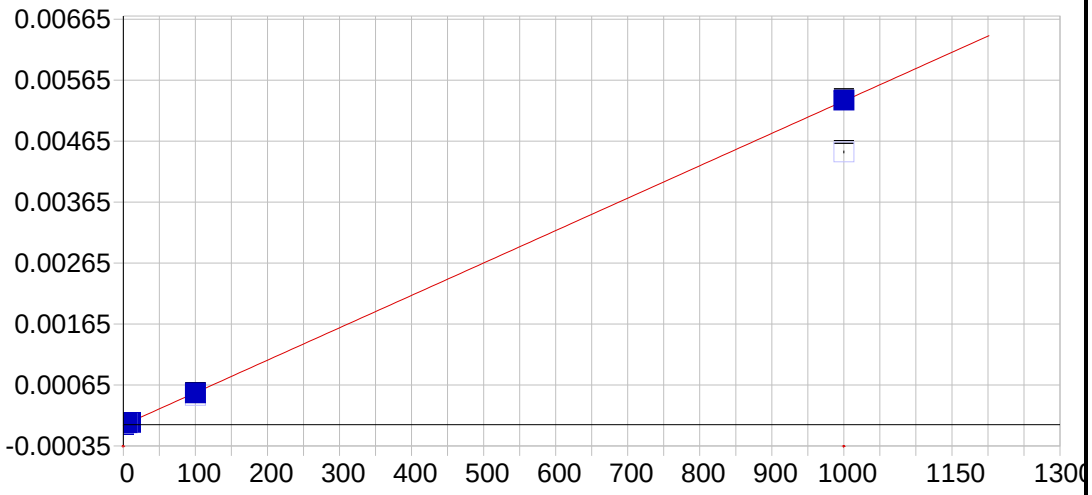


Pb 216.999 {455}

Date of Fit:	11/29/2010 14:44:49	Type of Fit:	Full Fit	Weighting:	None

A0 (Offset):	0.000012	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	0.960000		
Correlation:	1.000000	Status:	Warning Positive Curvature
Std Error of Est:	0.000000		
Predicted MDL:	8.945351		
Predicted MQL:	29.817838		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00001	.000	1
CalibStd=100	1000.0	1004.6	4.60	.460	.00084	.000	1
CalibStd=100	10000.	9999.4	-.597	-.006	.00766	.000	1
CalibStd-100	100000.	100000.	.006	.000	.07838	.001	1

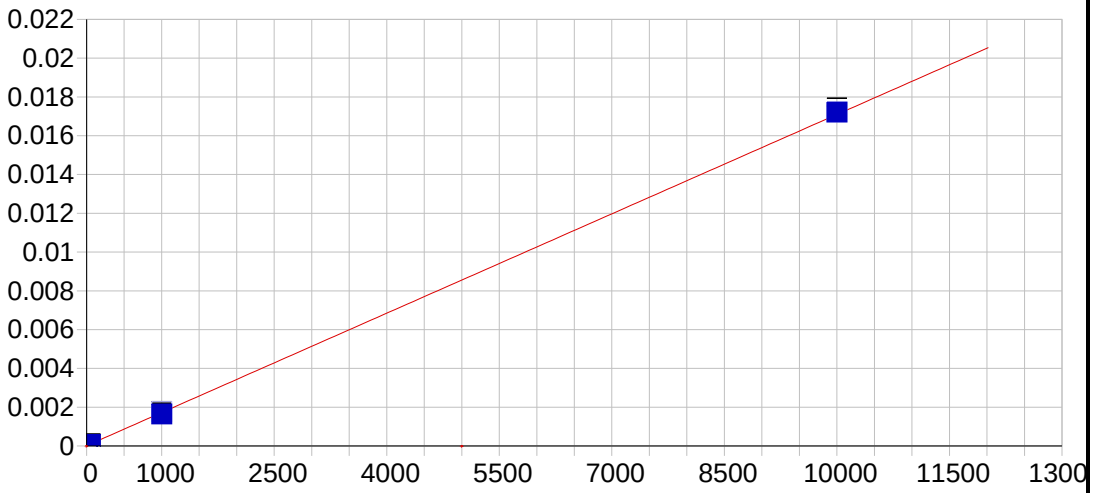


Pb 220.353 {453}

Date of Fit:	11/29/2010 14:33:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000007	Re-Slope:	1.000000
A1 (Gain):	0.000005	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999616	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	2.141912		
Predicted MQL:	7.139708		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00005	.000	.000	-.00001	.000	1
CalibStd=10	10.000	8.0031	-2.00	-20.0	.00003	.000	1
CalibStd=100	100.00	98.808	-1.19	-1.19	.00048	.000	1
CalibStd=5	5.0000	5.9943	.994	19.9	.00002	.000	1
CalibStd=100	1000.0	1002.4	2.40	.240	.00447	.000	1

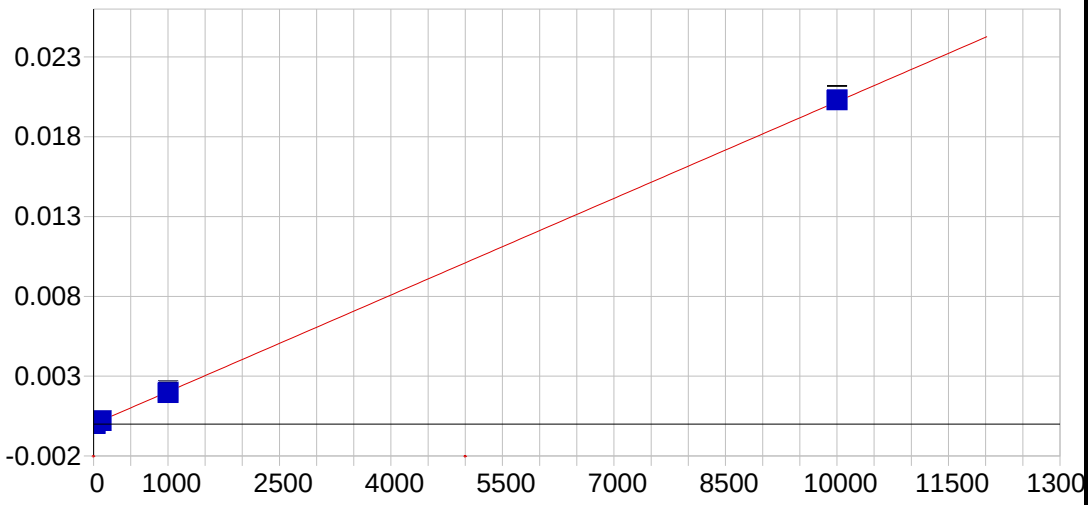


Sb 206.833 {463}

Date of Fit:	11/29/2010 14:38:57	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000014	Re-Slope:	1.000000
A1 (Gain):	0.000002	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999373	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	4.151887		
Predicted MQL:	13.839624		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.01215	.012	.000	.00001	.000	1
CalibStd=100	1000.0	955.30	-44.7	-4.47	.00176	.000	1
CalibStd=10	10.000	-.12909	-10.1	-101.	.00001	.000	1
CalibStd=50	50.000	41.782	-8.22	-16.4	.00009	.000	1
CalibStd=100	10000.	10067.	67.4	.674	.01721	.000	1

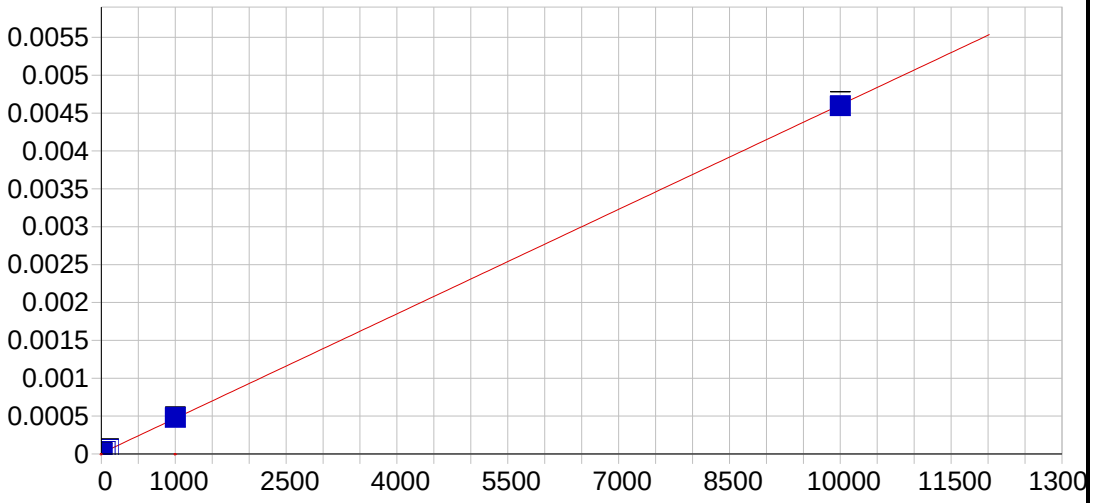


Sb 217.581 {455}

Date of Fit:	11/29/2010 14:38:57	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000005	Re-Slope:	1.000000
A1 (Gain):	0.000002	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999479	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	5.174056		
Predicted MQL:	17.246853		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.01296	.013	.000	.00000	.000	1
CalibStd=100	1000.0	969.08	-30.9	-3.09	.00206	.000	1
CalibStd=20	20.000	10.092	-9.91	-49.5	.00003	.000	1
CalibStd=10	10.000	2.6749	-7.33	-73.3	.00001	.000	1
CalibStd=100	100.00	95.731	-4.27	-4.27	.00021	.000	1
CalibStd=100	10000.	10055.	55.0	.550	.02030	.000	1

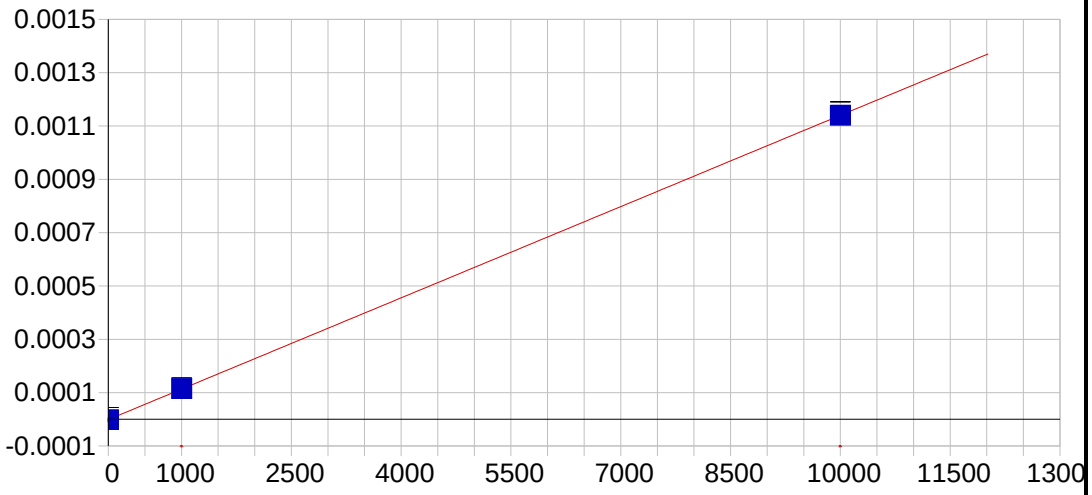


Se 196.090 {472}

Date of Fit:	11/30/2010 12:52:25	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000010	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999874	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	13.937161		
Predicted MQL:	46.457203		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00286	.003	.000	.00001	.000	1
CalibStd=50	50.000	46.971	-3.03	-6.06	.00003	.000	1
CalibStd=100	1000.0	1024.8	24.8	2.48	.00048	.000	1
CalibStd=10	10.000	6.6285	-3.37	-33.7	.00001	.000	1
CalibStd=100	100.00	108.96	8.96	8.96	.00006	.000	1
CalibStd=100	10000.	9972.6	-27.4	-.274	.00459	.000	1

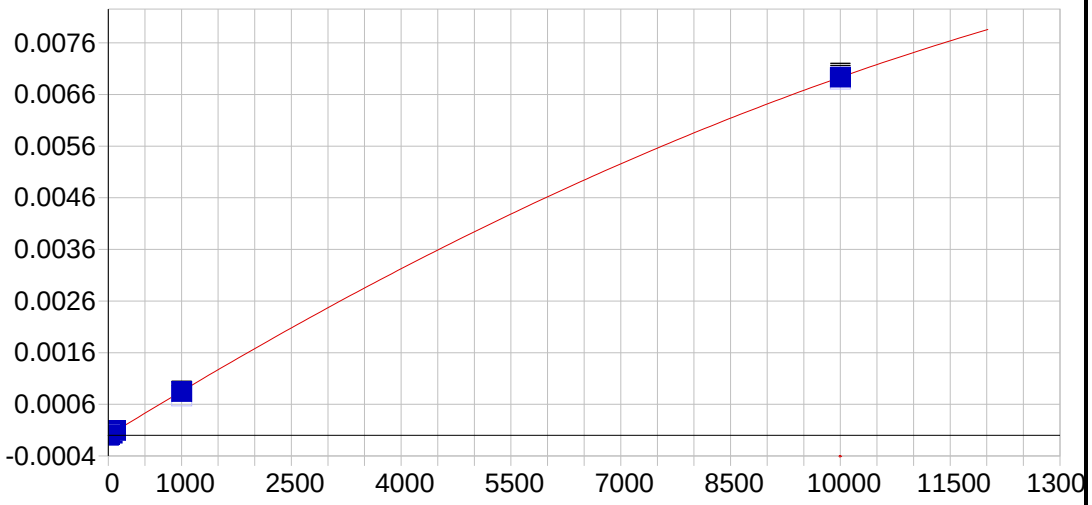


Se 206.279 {463}

Date of Fit:	11/30/2010 12:47:49	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-0.000001	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999998	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	57.647198		
Predicted MQL:	192.157326		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-11.259	-11.3	.000	.00000	.000	1
CalibStd=100	1000.0	1012.5	12.5	1.25	.00011	.000	1
CalibStd=100	10000.	9998.7	-1.25	-.013	.00114	.000	1

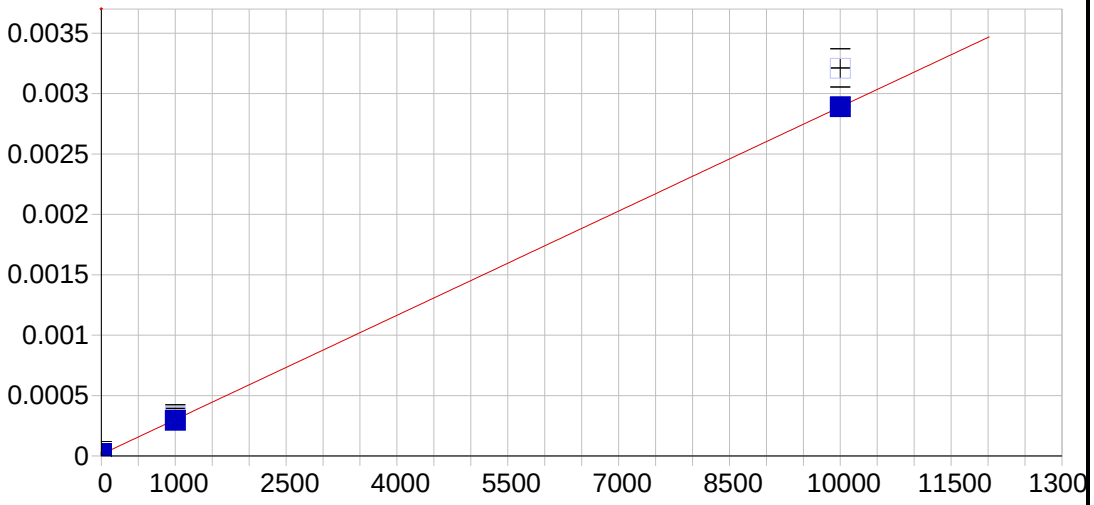


Tl 190.856 {477}

Date of Fit:	11/30/2010 13:12:13	Type of Fit:	Full Fit	Weighting:	1/Conc

A0 (Offset):	-0.000001	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	1.010000		
Correlation:	0.999898	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	7.504357		
Predicted MQL:	25.014524		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00152	.002	.000	.00000	.000	1
CalibStd=50	50.000	48.502	-1.50	-3.00	.00004	.000	1
CalibStd=100	1000.0	993.06	-6.94	-.694	.00076	.000	1
CalibStd=20	20.000	19.459	-.541	-2.71	.00002	.000	1
CalibStd=100	100.00	110.44	10.4	10.4	.00008	.000	1
CalibStd=10	10.000	8.1965	-1.80	-18.0	.00001	.000	1
CalibStd=100	10000.	10001.	.972	.010	.00689	.000	1

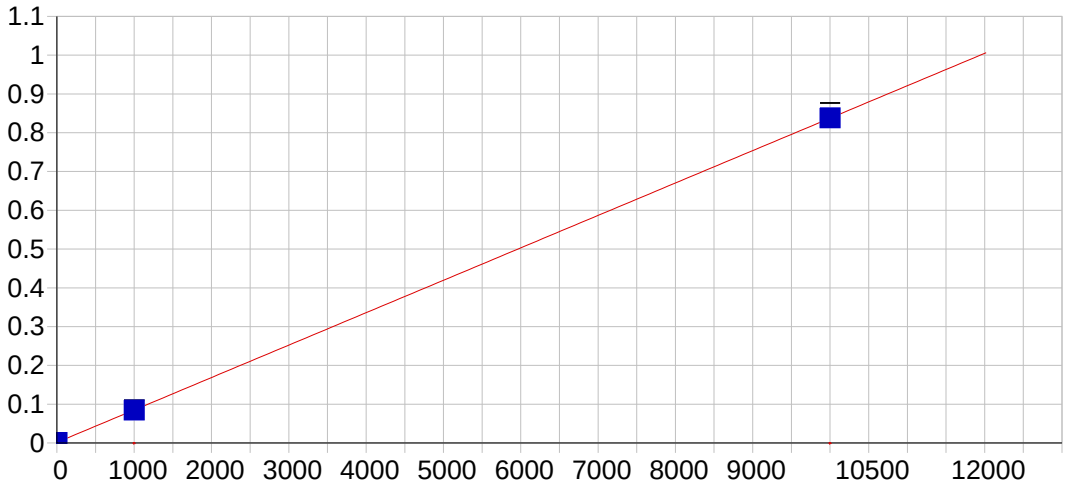


Tl 276.787 {122}

Date of Fit:	11/29/2010 14:38:57	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000014	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999993	Status:	OK.
Std Error of Est:	0.000010		
Predicted MDL:	156.463453		
Predicted MQL:	521.544842		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	22.153	22.2	.000	.00002	.000	1
CalibStd=100	1000.0	975.39	-24.6	-2.46	.00033	.000	1
CalibStd=100	10000.	10002.	2.46	.025	.00321	.000	1

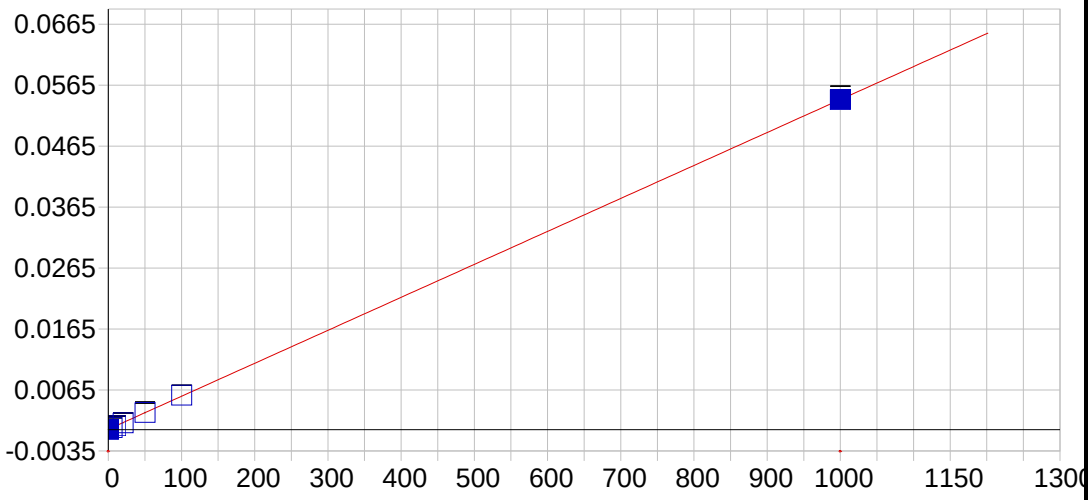


V 290.882 {116}

Date of Fit:	11/29/2010 14:38:57	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001482	Re-Slope:	1.000000
A1 (Gain):	0.000084	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999997	Status:	OK.
Std Error of Est:	0.000034		
Predicted MDL:	0.854991		
Predicted MQL:	2.849969		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00638	.006	.000	.00148	.000	1
CalibStd=100	1000.0	992.92	-7.08	-.708	.08450	.000	1
CalibStd=100	10000.	10007.	7.08	.071	.83822	.013	1

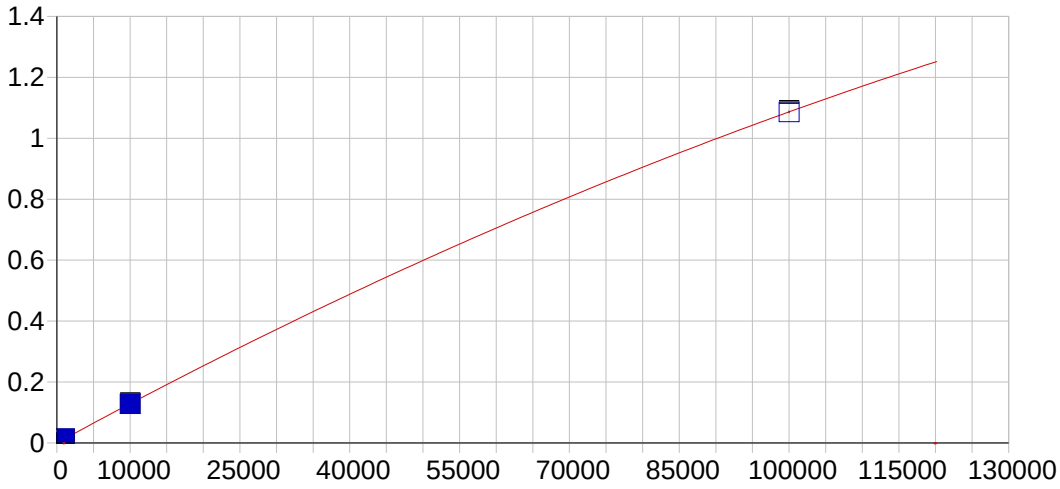


V 292.402 {115}

Date of Fit:	11/30/2010 12:34:27	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000066	Re-Slope:	1.000000
A1 (Gain):	0.000054	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999994	Status:	OK.
Std Error of Est:	0.000078		
Predicted MDL:	1.321853		
Predicted MQL:	4.406176		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.85881	-.859	.000	.00002	.000	1
CalibStd=50	50.000	50.324	.324	.647	.00279	.000	1
CalibStd=100	1000.0	999.73	-.275	-.027	.05414	.001	1
CalibStd=20	20.000	19.181	-.819	-4.10	.00110	.000	1
CalibStd=5	5.0000	4.2090	-.791	-15.8	.00029	.000	1
CalibStd=10	10.000	9.5923	-.408	-4.08	.00058	.000	1
CalibStd=100	100.00	102.83	2.83	2.83	.00563	.000	1

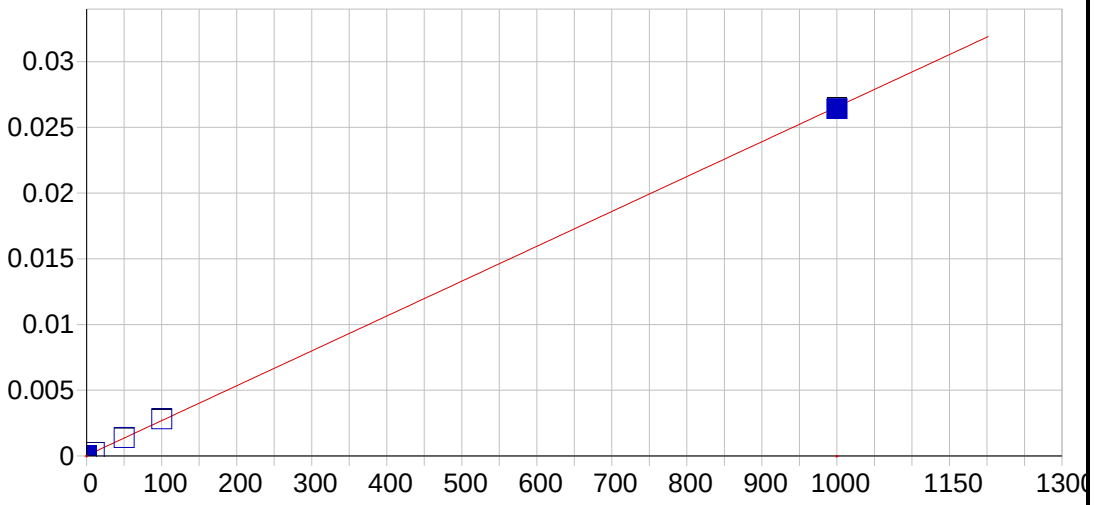


Zn 206.200 {463}

Date of Fit:	11/29/2010 14:44:49	Type of Fit:	Full Fit	Weighting:	None

A0 (Offset):	0.000131	Re-Slope:	1.000000
A1 (Gain):	0.000013	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.455110		
Predicted MQL:	1.517034		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
CalibStd=100	10000.	9998.8	-1.15	-.012	.12878	.001	1
CalibStd-100	100000.	100000.	.015	.000	1.0867	.004	1
Blank	.00000	.00000	.000	.000	.00001	.000	1
CalibStd=100	1000.0	1010.2	10.2	1.02	.01333	.000	1

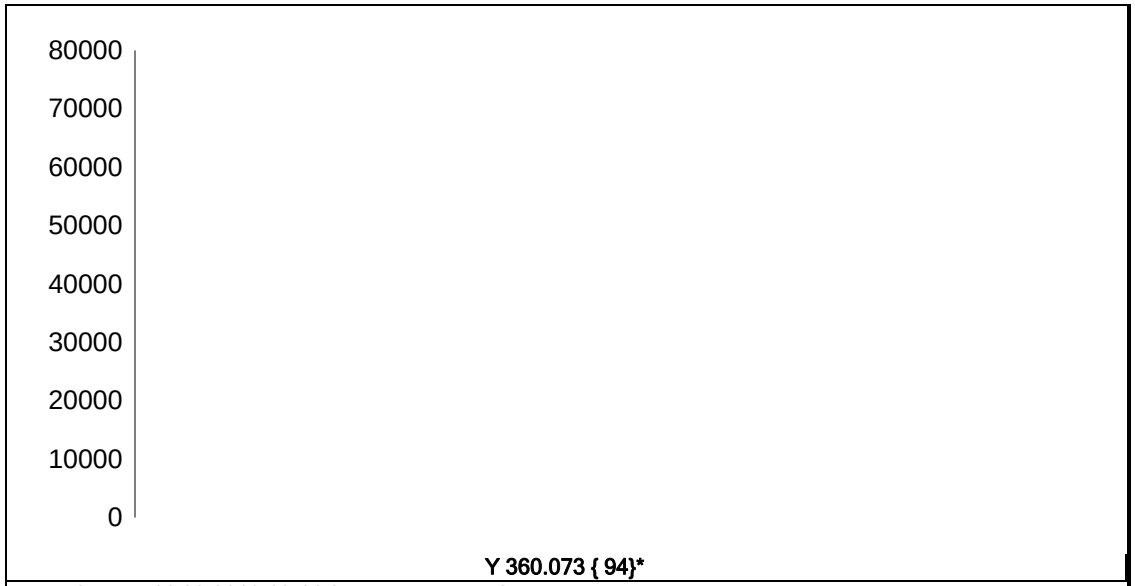


Zn 213.856 {458}

Date of Fit:	11/29/2010 14:33:15	Type of Fit:	Linear	Weighting:	1/Conc

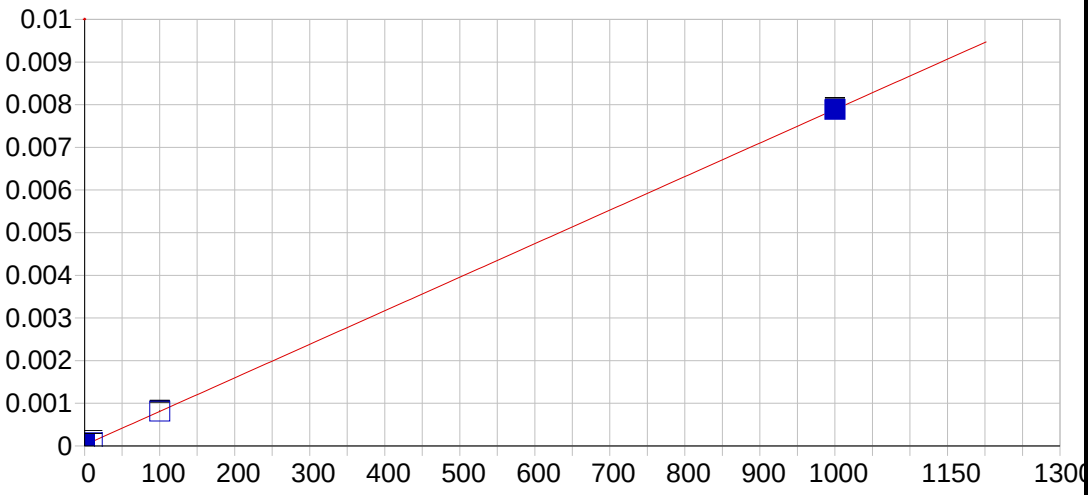
A0 (Offset):	0.000035	Re-Slope:	1.000000
A1 (Gain):	0.000027	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999888	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	0.257457		
Predicted MQL:	0.858191		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00028	.000	.000	.00004	.000	1
CalibStd=100	100.00	104.49	4.49	4.49	.00281	.000	1
CalibStd=50	50.000	51.023	1.02	2.05	.00139	.000	1
CalibStd=10	10.000	9.6770	-.323	-3.23	.00029	.000	1
CalibStd=100	1000.0	994.81	-5.19	-.519	.02643	.000	1



Date of Fit:	11/29/2010 13:44:25	Type of Fit:	Linear	Weighting:	None	
A0 (Offset):	0.000000		Re-Slope:	1.000000		
A1 (Gain):	0.000000		Y-int:	0.000000		
A2 (Curvature):	0.000000					
n (Exponent):	1.000000					
Correlation:	0.000000		Status:	Warning	Zero Gain	
Std Error of Est:	0.000000					
Predicted MDL:	n/a					
Predicted MQL:	n/a					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	71799.	2810.	1

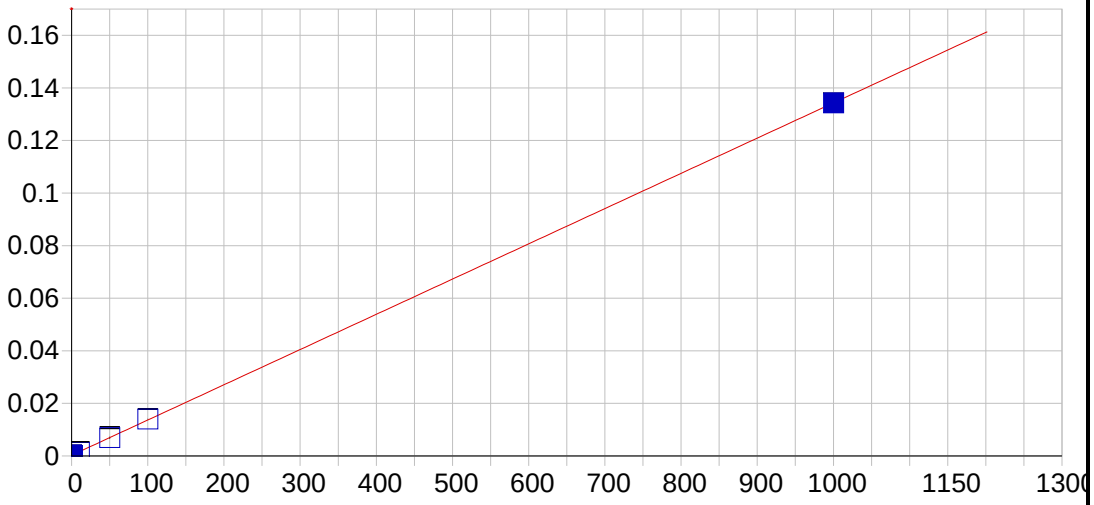


B 249.773 {135}

Date of Fit:	11/29/2010 14:33:15	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000023	Re-Slope:	1.000000
A1 (Gain):	0.000008	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999996	Status:	OK.
Std Error of Est:	0.000014		
Predicted MDL:	4.511657		
Predicted MQL:	15.038857		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	1.4325	1.43	.000	.00003	.000	1
CalibStd=10	10.000	8.0736	-1.93	-19.3	.00009	.000	1
CalibStd=100	100.00	100.53	.527	.527	.00081	.000	1
CalibStd=100	1000.0	999.97	-.033	-.003	.00789	.000	1

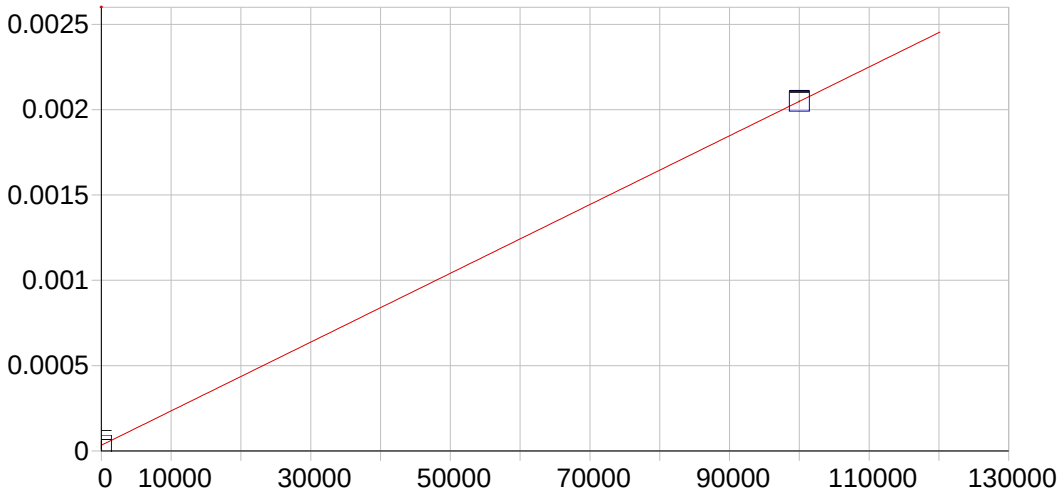


Li 670.784 { 50}

Date of Fit:	11/29/2010 14:33:15	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000268	Re-Slope:	1.000000
A1 (Gain):	0.000134	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999992	Status:	OK.
Std Error of Est:	0.000230		
Predicted MDL:	1.989618		
Predicted MQL:	6.632061		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.84122	.841	.000	.00038	.000	1
CalibStd=10	10.000	8.9190	-1.08	-10.8	.00146	.000	1
CalibStd=50	50.000	49.634	-.366	-.733	.00692	.000	1
CalibStd=100	100.00	102.59	2.59	2.59	.01402	.000	1
CalibStd=100	1000.0	999.77	-.228	-.023	.13428	.000	1
CalibStd=1	1.0000	-.75262	-1.75	-175.	.00017	.000	1

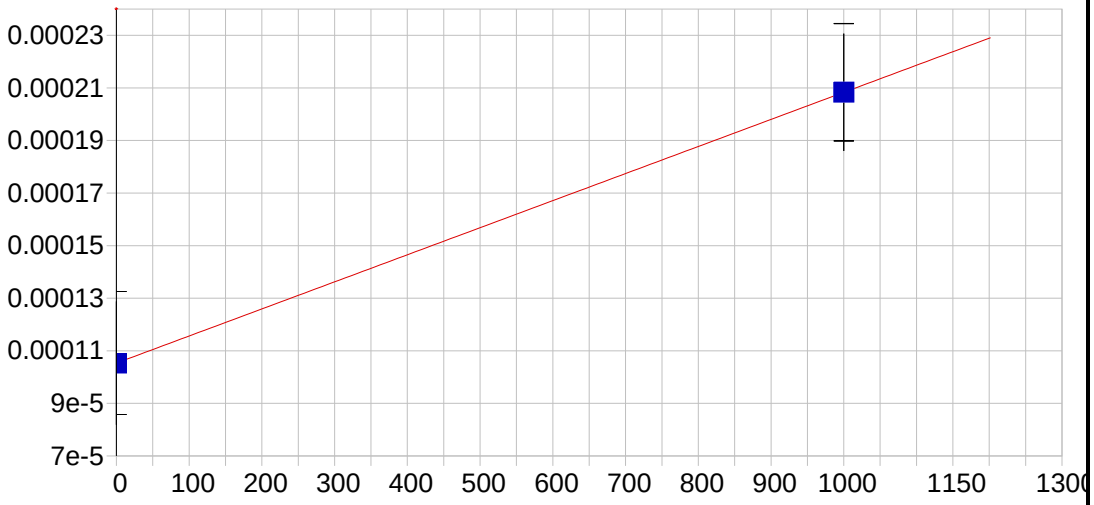


Na 330.298 {102}

Date of Fit:	11/29/2010 14:50:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000033	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	3215.590228		
Predicted MQL:	10718.63409		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00003	.000	1
CalibStd=100	100000.	100000.	.000	.000	.00205	.000	1

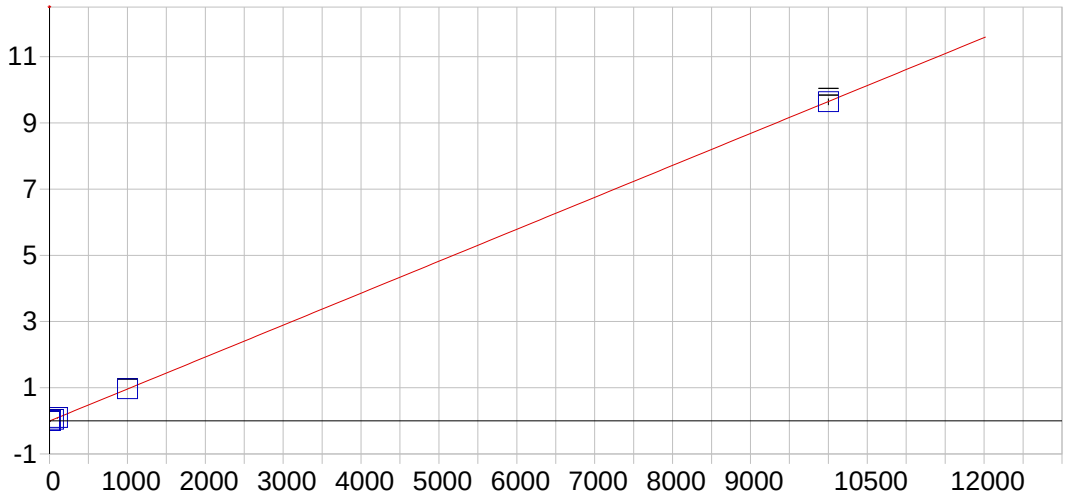


Si 251.611 {134}

Date of Fit:	11/29/2010 14:33:15	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000105	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	359.657868		
Predicted MQL:	1198.859562		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00011	.000	1
CalibStd=100	1000.0	1000.0	.000	.000	.00021	.000	1

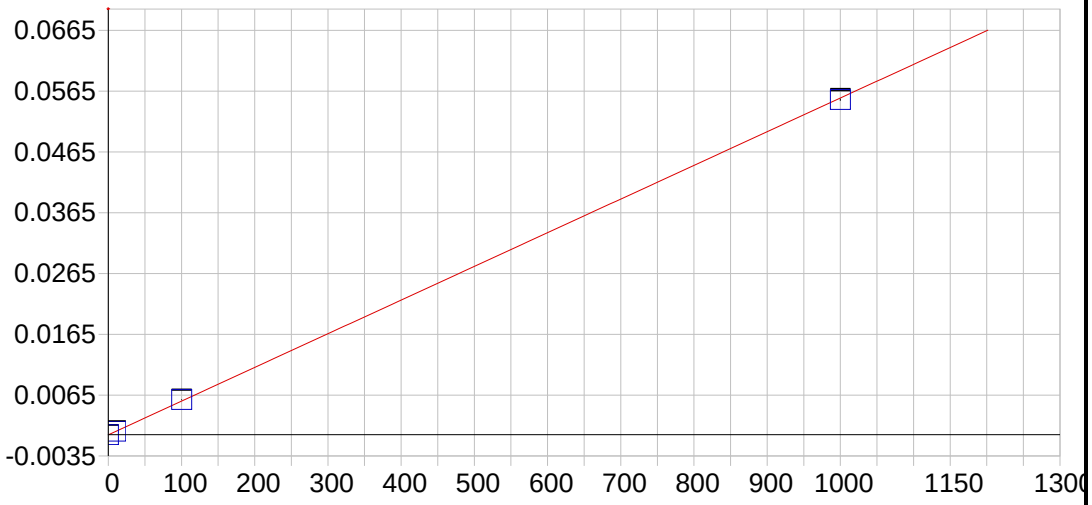


Sr 407.771 { 83}

Date of Fit:	11/29/2010 14:38:57	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.003909	Re-Slope:	1.000000
A1 (Gain):	0.000965	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999989	Status:	OK.
Std Error of Est:	0.000018		
Predicted MDL:	0.114919		
Predicted MQL:	0.383064		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00020	.000	.000	-.00391	.000	1
CalibStd=1	1.0000	1.0735	.073	7.35	-.00287	.000	1
CalibStd=5	5.0000	5.0967	.097	1.93	.00101	.000	1
CalibStd=10	10.000	10.390	.390	3.90	.00612	.000	1
CalibStd=50	50.000	51.230	1.23	2.46	.04553	.000	1
CalibStd=100	100.00	104.13	4.13	4.13	.09658	.000	1
CalibStd=100	1000.0	1004.4	4.45	.445	.96548	.002	1
CalibStd=100	10000.	9989.6	-10.4	-.104	9.6371	.102	1



Ti 334.941 {101}

Date of Fit:	11/29/2010 14:33:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000015	Re-Slope:	1.000000
A1 (Gain):	0.000055	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999901	Status:	OK.
Std Error of Est:	0.000004		
Predicted MDL:	1.186034		
Predicted MQL:	3.953447		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00081	-.001	.000	-.00002	.000	1
CalibStd=10	10.000	10.430	.430	4.30	.00056	.000	1
CalibStd=100	100.00	104.24	4.24	4.24	.00576	.000	1
CalibStd=100	1000.0	995.33	-4.67	-.467	.05511	.000	1

Sample Name: Blank Acquired: 11/29/2010 13:38:59 Type: Cal
Method: DOD Calibration 1(v1282) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	Al3092	Al3961	As1890	As1937	Ba4554	Ba4934	Be2348	Be3130	Ca3179	Ca3933
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.001**	**.000**	**.000**	**.000**	**.000**	**.024**	**.000**	**.000**	**.007**	**.002**
Stddev	.000	.000	.000	.00	.000	.00	.000	.001	.000	.000	.000	.001
%RSD	14.1	42.2	3.91	758.	187.	6170.	50.2	3.15	77.2	103.	.267	52.8

Elem	Ca3968	Cd2265	Cd2288	Co2286	Co2388	Cr2677	Cr2835	Cu2247	Fe2343	Fe2395	Fe2599	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.002**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**33.9**	**.000**
Stddev	.001	.00	.000	.00	.00	.000	.000	.000	.000	.000	9.5	.000
%RSD	60.0	244.	62.0	211.	226.	29.8	85.0	9.23	16.0	23.5	28.0	19.4

Elem	Mg2795	Mg2802	Mn2576	Mn2593	Mo2020	Mo2045	Ni2216	Ni2316	Pb2169	Pb2203	Sb2068	Sb2175
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.302**	**-.465**	**.000**	**.000**	**.000**	**.000**
Stddev	.000	.000	.00	.000	.000	.000	.702	.511	.000	.00	.000	.000
%RSD	32.7	53.3	128.	122.	113.	51.4	233.	110.	61.0	23.8	37.5	105.

Elem	Se1960	Se2062	Tl1908	V_2908	V_2924	Zn2062	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.000**	**.001**	**.000**	**.000**	**.000**
Stddev	.000	.00	.00	.000	.000	.000	.000
%RSD	2.21	394.	388.	6.86	194.	48.5	21.0

Sample Name: Blank Acquired: 11/29/2010 13:38:59 Type: Cal
Method: DOD Calibration 1(v1282) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Units	Cts/S
Avg	**71799.**
Stddev	2812.
%RSD	3.9165

Sample Name: CalibStd=0.25 Acquired: 11/29/2010 13:44:28 Type: Cal
Method: DOD Calibration 1(v1282) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Be3130	Cd2265
Units	Cts/S	Cts/S
Avg	**.000**	**.000**
Stddev	.000	.000
%RSD	27.0	73.7

Int. Std.	Y_3600
Units	Cts/S
Avg	**70758.**
Stddev	1090.
%RSD	1.5399

Sample Name: CalibStd=0.5 Acquired: 11/29/2010 13:49:58 Type: Cal
Method: DOD Calibration 1(v1282) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Be3130	Cd2265
Units	Cts/S	Cts/S
Avg	**.000**	**.000**
Stddev	.000	.000
%RSD	7.03	19.7

Int. Std.	Y_3600
Units	Cts/S
Avg	**71430.**
Stddev	834.
%RSD	1.1683

Sample Name: CalibStd=1 Acquired: 11/29/2010 13:55:28 Type: Cal
Method: DOD Calibration 1(v1282) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Ba4554	Cd2265	Co2286	Cr2677	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.001**	**.000**	**.000**	**.000**	**.000**	**.000**
Stddev	.000	.000	.000	.000	.000	.000	.000
%RSD	21.7	17.8	14.3	26.2	26.0	13.5	14.2

Int. Std.	Y_3600
Units	Cts/S
Avg	**71437.**
Stddev	416.
%RSD	.58218

Sample Name: CalibStd=5 Acquired: 11/29/2010 14:00:58 Type: Cal
Method: DOD Calibration 1(v1282) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	Ba4554	Be3130	Cd2265	Co2286	Cr2677	Cu2247	Mn2576	Mo2020	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.001**	**.000**	**.002**	**.004**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**4.65**	**.000**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.35	.000
%RSD	6.35	39.9	4.00	3.80	1.25	9.68	2.97	8.37	3.72	9.03	7.50	49.7

Elem	V_2924
Units	Cts/S
Avg	**.000**
Stddev	.000
%RSD	9.93

Int. Std.	Y_3600
Units	Cts/S
Avg	**71821.**
Stddev	1042.
%RSD	1.4507

Sample Name: CalibStd=10 Acquired: 11/29/2010 14:06:28 Type: Cal
Method: DOD Calibration 1(v1282) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Cd2265	Co2286	Cr2677	Cu2247	Mg2795	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.002**	**.000**	**.000**	**.004**	**.007**	**.001**	**.000**	**.000**	**.000**	**.002**	**.001**	**.000**
Stddev	.000	.000	.00	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	1.49	22.1	504.	2.66	.472	2.59	3.03	2.84	2.27	1.46	4.93	2.69

Elem	Ni2316	Pb2203	Sb2068	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**9.27**	**.000**	**.000**	**.000**	**.000**	**.000**	**.001**	**.000**
Stddev	.30	.000	.000	.000	.000	.000	.000	.000
%RSD	3.19	14.2	12.2	46.9	18.0	77.3	10.2	1.54

Int. Std.	Y_3600
Units	Cts/S
Avg	**71293.**
Stddev	449.
%RSD	.62917

Sample Name: CalibStd=20 Acquired: 11/29/2010 14:11:58 Type: Cal
Method: DOD Calibration 1(v1282) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al1670	Ba4554	Cr2677	Fe2599	Mg2795	Mn2576	Mo2020	Ni2316	Sb2175	Tl1908	V_2924
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.007**	**.001**	**10.7**	**.004**	**.002**	**.000**	**18.1**	**.000**	**.000**	**.001**
Stddev	.000	.000	.000	1.0	.000	.000	.000	.4	.000	.000	.000
%RSD	13.8	1.37	2.33	9.65	1.17	3.46	3.97	2.06	40.8	19.0	4.45

Int. Std.	Y_3600
Units	Cts/S
Avg	**71220.**
Stddev	1277.
%RSD	1.7932

Sample Name: CalibStd=50 Acquired: 11/29/2010 14:17:27 Type: Cal
Method: DOD Calibration 1(v1282) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al1670	As1937	Ba4554	Ca3933	Cd2265	Co2286	Cr2677	Cr2835	Cu2247	Fe2599	Mg2795	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.018**	**.024**	**.003**	**.001**	**.003**	**.001**	**.001**	**23.6**	**.009**	**.005**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	1.2	.000	.000
%RSD	8.12	3.53	.409	.692	.802	.580	1.44	3.56	.971	5.08	.546	.799

Elem	Mo2020	Mo2045	Ni2316	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**46.1**	**.000**	**.000**	**.000**	**.003**	**.001**
Stddev	.000	.000	.2	.000	.000	.000	.000	.000
%RSD	1.19	.714	.456	7.59	10.0	14.4	4.24	1.16

Int. Std.	Y_3600
Units	Cts/S
Avg	**70679.**
Stddev	720.
%RSD	1.0192

Sample Name: CalibStd=100 Acquired: 11/29/2010 14:22:53 Type: Cal
Method: DOD Calibration 1(v1282) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	As1890	As1937	Ba4554	Be2348	Be3130	Ca3968	Cd2265	Cd2288	Co2286	Cr2677	Cr2835
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.017**	**.000**	**.000**	**.036**	**.005**	**.071**	**.064**	**.006**	**.004**	**.002**	**.005**	**.001**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	.423	3.22	9.68	.542	.716	.609	.546	.387	.345	.693	1.11	3.75

Elem	Cu2247	Fe2599	Mn2576	Mo2020	Mo2045	Ni2216	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.001**	**37.8**	**.010**	**.001**	**.000**	**159.**	**93.7**	**.000**	**.000**	**.000**	**.000**	**.006**
Stddev	.000	3.4	.000	.000	.000	.	.8	.000	.000	.000	.000	.000
%RSD	1.63	9.08	.430	.884	2.02	.294	.812	1.32	1.90	9.27	.943	.177

Elem	Zn2138
Units	Cts/S
Avg	**.003**
Stddev	.000
%RSD	.539

Int. Std.	Y_3600
Units	Cts/S
Avg	**70429.**
Stddev	250.
%RSD	.35472

Sample Name: CalibStd=1000 Acquired: 11/29/2010 14:28:15 Type: Cal
Method: DOD Calibration 1(v1282) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al1670	Al3092	Al3961	As1890	As1937	Ba4934	Be2348	Be3130	Ca3179	Ca3933	Ca3968	Cd2265
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.001**	**.005**	**.008**	**.000**	**.000**	**.438**	**.051**	**.703**	**.018**	**.388**	**.588**	**.053**
Stddev	.000	.000	.000	.000	.000	.001	.000	.001	.000	.000	.001	.000
%RSD	.446	.837	2.15	1.38	.992	.114	.196	.155	.421	.047	.216	.317

Elem	Cd2288	Co2286	Co2388	Cr2677	Cr2835	Cu2247	Fe2343	Fe2395	Fe2599	Mg2790	Mg2802	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.041**	**.019**	**.005**	**.048**	**.014**	**.011**	**.001**	**.005**	**340.**	**.001**	**.157**	**.093**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	2.	.000	.000	.000
%RSD	.259	.023	.392	.288	.308	.141	3.20	.093	.656	2.53	.142	.406

Elem	Mn2593	Mo2020	Mo2045	Ni2216	Ni2316	Pb2169	Pb2203	Sb2068	Sb2175	Se1960	Se2062	Tl1908
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.069**	**.006**	**.004**	**1540.**	**905.**	**.001**	**.004**	**.002**	**.002**	**.000**	**.000**	**.001**
Stddev	.000	.000	.000	5.	1.	.000	.000	.000	.000	.000	.000	.000
%RSD	.373	.109	.285	.347	.072	.780	.474	.760	.754	.716	1.59	.682

Elem	V_2908	V_2924	Zn2062	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.085**	**.054**	**.013**	**.026**
Stddev	.000	.001	.000	.000
%RSD	.276	1.01	.231	.221

Sample Name: CalibStd=1000 Acquired: 11/29/2010 14:28:15 Type: Cal
Method: DOD Calibration 1(v1282) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Units	Cts/S
Avg	**71597.**
Stddev	115.
%RSD	.16026

Sample Name: CalibStd=10000 Acquired: 11/29/2010 14:33:18 Type: Cal
Method: DOD Calibration 1(v1282) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al3092	Al3961	As1890	Ba4934	Ca3179	Ca3968	Co2388	Cr2835	Cu2247	Fe2343	Fe2395
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.040**	**.077**	**.003**	**4.08**	**.124**	**5.83**	**.052**	**.137**	**.103**	**.014**	**.050**
Stddev	.000	.000	.000	.10	.001	.03	.000	.001	.001	.000	.000
%RSD	.534	.173	1.37	2.33	.572	.517	.392	.385	.923	1.37	.413

Elem	Mg2790	Mg2802	Mn2576	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068	Sb2175	Se1960	Se2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.005**	**1.51**	**.920**	**.681**	**.042**	**14700.**	**.008**	**.017**	**.020**	**.005**	**.001**
Stddev	.000	.01	.004	.002	.000	30.	.000	.000	.000	.000	.000
%RSD	1.34	.442	.382	.357	1.07	.206	1.16	1.18	1.24	1.20	1.13

Elem	Tl1908	V_2908	Zn2062
Units	Cts/S	Cts/S	Cts/S
Avg	**.007**	**.838**	**.129**
Stddev	.000	.013	.001
%RSD	1.08	1.50	1.13

Int. Std.	Y_3600
Units	Cts/S
Avg	**70548.**
Stddev	798.
%RSD	1.1311

Sample Name: CalibStd-100k Acquired: 11/29/2010 14:39:00 Type: Cal
Method: DOD Calibration 1(v1282) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Cr2835	Mn2593	Pb2169	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.40**	**6.58**	**.078**	**1.09**
Stddev	.00	.02	.001	.00
%RSD	.223	.258	.841	.385

Int. Std.	Y_3600
Units	Cts/S
Avg	**71221.**
Stddev	337.
%RSD	.47375

Sample Name: CalibStd=100000 Acquired: 11/29/2010 14:44:53 Type: Cal
Method: DOD Calibration 1(v1282) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al3092	Al3961	Ca3179	Fe2343	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.392**	**.745**	**1.17**	**.140**	**.053**
Stddev	.001	.002	.00	.000	.000
%RSD	.161	.281	.069	.300	.486

Int. Std.	Y_3600
Units	Cts/S
Avg	**70271.**
Stddev	228.
%RSD	.32457

Sample Name: CalibStd=500000 Acquired: 11/29/2010 14:50:40 Type: Cal
Method: DOD Calibration 1(v1282) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al3961	Ca3179	Fe2343	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3.83**	**5.44**	**.694**	**.259**
Stddev	.05	.07	.005	.003
%RSD	1.38	1.34	.788	1.06

Int. Std.	Y_3600
Units	Cts/S
Avg	**68082.**
Stddev	732.
%RSD	1.0753

Sample Name: CalibStd-1000k Acquired: 11/29/2010 14:56:43 Type: Cal
Method: DOD Calibration 1(v1282) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al3961	Ca3179	Fe2343	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7.61**	**10.4**	**1.29**	**.521**
Stddev	.19	.2	.01	.003
%RSD	2.50	2.01	1.05	.615

Int. Std.	Y_3600
Units	Cts/S
Avg	**65950.**
Stddev	616.
%RSD	.93434

Sample Name: icv Acquired: 11/29/2010 15:08:27 Type: QC
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247	Fe2395
Avg	**116.**	**12500.**	**2130.**	**2110.**	**51.7**	**10500.**	**49.9**	**459.**	**199.**	**257.**	**5230.**
Stddev	.	63.	20.	11.	.1	41.	.4	3.	2.	2.	22.
%RSD	.261	.505	.948	.520	.240	.392	.704	.680	1.04	.752	.424
Check ?	None	None	None	None	None	None	None	None	None	None	None
Value											
Range											

Elem	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se2062	Tl1908	V_2924	Zn2138
Avg	**9920.**	**531.**	**536.**	**514.**	**527.**	**516.**	**2210.**	**1830.**	**527.**	**534.**
Stddev	102.	3.	5.	2.	4.	3.	29.	19.	6.	4.
%RSD	1.02	.573	.897	.298	.834	.644	1.30	1.03	1.21	.810
Check ?	None	None	None	None	None	None	None	None	None	None
Value										
Range										

Int. Std.	Y_3600
Avg	**71175.**
Stddev	459.
%RSD	.64529

Sample Name: icb Acquired: 11/29/2010 15:19:31 Type: QC
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**-.038**	**.528**	**.511**	**-.303**	**.116**	**-2.53**	**-.064**	**.319**	**-1.26**	**.026**	**-133.**	**2.11**
Stddev	.331	3.12	1.11	.200	.080	1.93	.143	.278	.65	1.06	7.	1.99
%RSD	879.	591.	217.	66.0	68.6	76.4	223.	87.2	51.4	4010.	5.32	94.7
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	**.521**	**-1.26**	**-.007**	**-.416**	**-8.22**	**-5.29**	**.188**	**-1.10**	**-.476**
Stddev	.676	.41	.270	1.50	3.52	11.0	3.87	1.42	.088
%RSD	130.	32.4	3630.	361.	42.8	207.	2060.	129.	18.5
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**70062.**
Stddev	428.
%RSD	.61151

Sample Name: MRL Acquired: 11/29/2010 15:25:02 Type: QC
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1890	Ba4554	Be3130	Ca3968	Cd2265	Co2286	Cr2677	Cu2247	Fe2395	Mg2795
Avg	**20.3**	**413.**	**11.2**	**10.8**	**4.33**	**562.**	**5.11**	**11.2**	**9.38**	**11.8**	**286.**	**497.**
Stddev	.7	4.	2.8	.1	.04	2.	.09	.3	.25	.3	3.	2.
%RSD	3.58	1.02	24.9	.644	1.01	.364	1.72	3.07	2.68	2.68	1.05	.319
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	**11.9**	**9.74**	**11.0**	**10.1**	**14.9**	**7.48**	**22.3**	**9.72**	**12.6**
Stddev	.3	.49	.4	.2	.8	3.82	5.0	1.90	.3
%RSD	2.78	5.06	3.26	1.93	5.06	51.0	22.1	19.5	1.99
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	70585.
Stddev	250.
%RSD	.35349

Sample Name: icsa Acquired: 11/29/2010 15:30:27 Type: QC
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3961	As1937	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Avg	**.000**	**528000.**	**.581**	**.000**	**.000**	**543000.**	**-.001**	**.008**	**.000**	**.040**
Stddev	.28	5910.	4.41	.252	.088	3140.	.195	.152	.710	2.95
%RSD	42e15	1.12	758.	248e15	198e6	.579	21100.	1930.	1470000.	7460.
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2343	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Avg	**485000.**	**559000.**	**.000**	**-.120**	**.011**	**.051**	**.008**	**-.019**	**.620**	**.000**
Stddev	2350.	4250.	.33	.338	.957	2.07	7.55	5.29	6.51	1.73
%RSD	.484	.760	11e6	282.	8620.	4080.	91700.	27300.	1050.	1830000.
Check ?	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Zn2138
Avg	**.000**
Stddev	.61
%RSD	598000.
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: icsa Acquired: 11/29/2010 15:30:27 Type: QC
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Avg	**66871.**
Stddev	575.
%RSD	.86005

Sample Name: icsab Acquired: 11/29/2010 15:36:29 Type: QC
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be2348	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Avg	**478.**	**547000.**	**519.**	**586.**	**562.**	**558000.**	**432.**	**461.**	**478.**	**480.**
Stddev	7.	2680.	13.	8.	3.	4180.	7.	6.	6.	10.
%RSD	1.52	.490	2.53	1.43	.580	.749	1.69	1.32	1.31	2.05
Check ?	None	None	None	None	None	None	None	None	None	None
Value										
Range										

Elem	Fe2343	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Avg	**501000.**	**570000.**	**561.**	**520.**	**435.**	**449.**	**509.**	**510.**	**399.**	**530.**
Stddev	3220.	8530.	3.	7.	3.	7.	12.	18.	1.	10.
%RSD	.642	1.50	.579	1.33	.602	1.51	2.32	3.44	.336	1.90
Check ?	None	None	None	None	None	None	None	None	None	None
Value										
Range										

Elem	Zn2138
Avg	**520.**
Stddev	8.
%RSD	1.51
Check ?	None
Value	
Range	

Sample Name: icsab Acquired: 11/29/2010 15:36:29 Type: QC
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Avg	**66864.**
Stddev	683.
%RSD	1.0212

Sample Name: lcss35475 Acquired: 11/29/2010 15:47:54 Type: Unk
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2388	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**86.8**	**4240.**	**4120.**	**4100.**	**98.2**	**197000.**	**91.9**	**984.**	**362.**	**462.**
Stddev	.3	7.	26.	11.	.2	1440.	.5	6.	3.	1.
%RSD	.294	.158	.631	.255	.232	.729	.490	.609	.780	.301

Elem	Fe2343	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se2062	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**2180.**	**95900.**	**1010.**	**-1.51**	**887.**	**918.**	**1020.**	**4090.**	**3090.**	**967.**
Stddev	35.	1270.	3.	.59	1.	1.	2.	70.	5.	8.
%RSD	1.60	1.33	.260	38.8	.168	.135	.231	1.72	.174	.849

Elem	Zn2138
Units	ug/L
Avg	**995.**
Stddev	1.
%RSD	.054

Int. Std.	Y_3600
Units	Cts/S
Avg	**67787.**
Stddev	38.
%RSD	.05646

Sample Name: mbs35475 Acquired: 11/29/2010 15:53:35 Type: Unk
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-.089**	**.067**	**-1.61**	**-.207**	**.103**	**.143**	**-.024**	**.470**	**-1.40**	**-.459**	**-129.**	**1.45**
Stddev	.735	3.62	7.67	.120	.021	1.65	.221	.135	.44	.569	3.	.72
%RSD	826.	5430.	477.	57.7	20.4	1160.	924.	28.6	31.2	124.	2.70	49.3

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.499**	**-1.43**	**.202**	**1.21**	**-4.03**	**-.442**	**-1.47**	**-.450**	**-.511**
Stddev	.177	.35	.259	1.04	1.89	2.12	1.00	.732	.108
%RSD	35.3	24.8	128.	86.0	46.8	480.	68.2	163.	21.2

Int. Std.	Y_3600
Units	Cts/S
Avg	**70365.**
Stddev	132.
%RSD	.18704

Sample Name: 870200 Acquired: 11/29/2010 15:59:05 Type: Unk
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 5
Comment:

Elem	Ag3280	Al3961	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.992**	**97100.**	**-9.59**	**1130.**	**8.11**	**144000.**	**6.73**	**87.9**	**304.**	**143.**
Stddev	.089	827.	21.7	16.	.05	1810.	.14	.8	3.	2.
%RSD	8.93	.851	226.	1.39	.601	1.25	2.16	.941	.894	1.33

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**188000.**	**34700.**	**12600.**	**10.2**	**240.**	**852.**	**2450.**	**12.7**	**6.20**	**167.**
Stddev	1890.	90.	143.	.3	1.	8.	26.	7.1	7.34	1.
%RSD	1.01	.260	1.13	2.84	.520	.978	1.04	56.1	118.	.388

Elem	Zn2138
Units	ug/L
Avg	**733.**
Stddev	6.
%RSD	.772

Int. Std.	Y_3600
Units	Cts/S
Avg	**70988.**
Stddev	351.
%RSD	.49384

Sample Name: 870201 Acquired: 11/29/2010 16:04:39 Type: Unk
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 5
Comment:

Elem	Ag3280	Al3961	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.014**	**106000.**	**25.7**	**821.**	**5.06**	**22300.**	**5.69**	**84.4**	**1210.**	**115.**
Stddev	.586	164.	19.7	3.	.04	59.	.42	.5	7.	1.
%RSD	4120.	.155	76.7	.378	.818	.262	7.33	.565	.542	1.13

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**171000.**	**19700.**	**7090.**	**10.9**	**160.**	**181.**	**17.2**	**12.2**	**7.15**	**220.**
Stddev	1170.	298.	15.	.3	.	1.	4.5	8.6	3.14	1.
%RSD	.683	1.52	.217	3.07	.165	.568	26.2	70.1	43.9	.385

Elem	Zn2138
Units	ug/L
Avg	**465.**
Stddev	2.
%RSD	.364

Int. Std.	Y_3600
Units	Cts/S
Avg	**71688.**
Stddev	240.
%RSD	.33470

Sample Name: I870201 Acquired: 11/29/2010 16:10:24 Type: Unk
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 5
Comment:

Elem	Ag3280	Al3092	As1937	Ba4934	Be3130	Ca3968	Cd2265	Co2286	Cr2677	Cu2247	Fe2343
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.833**	**21600.**	**8.09**	**164.**	**1.06**	**4390.**	**1.05**	**17.9**	**259.**	**23.9**	**36400.**
Stddev	.521	36.	10.5	1.	.08	52.	.05	.1	4.	.4	84.
%RSD	62.6	.169	130.	.795	7.76	1.19	4.67	.619	1.47	1.80	.230

Elem	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**4100.**	**1450.**	**.462**	**33.7**	**38.4**	**-4.32**	**-4.82**	**4.14**	**43.0**	**100.**
Stddev	96.	2.	.544	.6	1.0	3.32	4.17	2.84	.7	1.
%RSD	2.33	.121	118.	1.81	2.56	76.8	86.4	68.7	1.52	1.10

Int. Std.	Y_3600
Units	Cts/S
Avg	**71874.**
Stddev	543.
%RSD	.75579

Sample Name: dup870201 Acquired: 11/29/2010 16:16:00 Type: Unk
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 5
Comment:

Elem	Ag3280	Al3961	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-.008**	**103000.**	**13.5**	**809.**	**5.11**	**22000.**	**5.44**	**79.6**	**1140.**	**108.**
Stddev	.384	681.	15.5	8.	.08	133.	.04	1.1	6.	3.
%RSD	4630.	.658	114.	.981	1.54	.605	.774	1.33	.508	2.99

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**169000.**	**19300.**	**7020.**	**9.06**	**154.**	**180.**	**8.41**	**-3.77**	**2.83**	**211.**
Stddev	541.	473.	45.	.21	2.	4.	4.67	12.3	4.31	3.
%RSD	.321	2.45	.646	2.37	1.21	2.14	55.5	327.	152.	1.65

Elem	Zn2138
Units	ug/L
Avg	**444.**
Stddev	5.
%RSD	1.19

Int. Std.	Y_3600
Units	Cts/S
Avg	**71976.**
Stddev	318.
%RSD	.44161

Sample Name: mss870201 Acquired: 11/29/2010 16:21:46 Type: Unk
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 5
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**15.0**	**151000.**	**914.**	**1700.**	**26.7**	**62800.**	**25.9**	**257.**	**1050.**	**204.**
Stddev	.5	137.	29.	1.	.1	127.	.1	1.	3.	1.
%RSD	3.26	.091	3.22	.079	.481	.203	.430	.415	.295	.597

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**203000.**	**42000.**	**6950.**	**9.65**	**338.**	**356.**	**26.8**	**817.**	**617.**	**419.**
Stddev	1020.	269.	7.	1.42	1.	2.	1.0	8.	11.	2.
%RSD	.501	.640	.098	14.7	.284	.468	3.60	1.03	1.81	.422

Elem	Zn2138
Units	ug/L
Avg	**661.**
Stddev	3.
%RSD	.394

Int. Std.	Y_3600
Units	Cts/S
Avg	**71014.**
Stddev	338.
%RSD	.47664

Sample Name: msds870201 Acquired: 11/29/2010 16:27:22 Type: Unk
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 5
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**15.7**	**153000.**	**920.**	**1710.**	**26.9**	**64100.**	**25.1**	**259.**	**1060.**	**208.**
Stddev	1.2	373.	22.	5.	.1	211.	.2	2.	7.	2.
%RSD	7.36	.244	2.43	.309	.511	.330	.788	.785	.684	1.02

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**212000.**	**41400.**	**7070.**	**10.8**	**339.**	**359.**	**28.5**	**798.**	**614.**	**425.**
Stddev	878.	191.	20.	.4	1.	4.	1.1	13.	8.	6.
%RSD	.415	.462	.283	4.09	.280	1.06	3.67	1.65	1.38	1.40

Elem	Zn2138
Units	ug/L
Avg	**668.**
Stddev	6.
%RSD	.876

Int. Std.	Y_3600
Units	Cts/S
Avg	**70586.**
Stddev	589.
%RSD	.83412

Sample Name: pdss870201 Acquired: 11/29/2010 16:32:59 Type: Unk
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 5
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2388	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**100.**	**290000.**	**3930.**	**5000.**	**104.**	**212000.**	**92.2**	**947.**	**1390.**	**527.**
Stddev	1.	5660.	36.	91.	2.	710.	.6	18.	31.	4.
%RSD	.995	1.95	.905	1.82	1.77	.335	.678	1.85	2.24	.697

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2216	Pb2203	Sb2068	Se2062	Tl1908	V_2908
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**335000.**	**117000.**	**187000.**	**8.96**	**1030.**	**994.**	**960.**	**3700.**	**2810.**	**1140.**
Stddev	7680.	2040.	2790.	.91	1.	5.	8.	69.	13.	10.
%RSD	2.29	1.75	1.49	10.2	.089	.510	.802	1.86	.475	.894

Elem	Zn2062
Units	ug/L
Avg	**1270.**
Stddev	6.
%RSD	.499

Int. Std.	Y_3600
Units	Cts/S
Avg	**69290.**
Stddev	417.
%RSD	.60145

Sample Name: ccv1 Acquired: 11/29/2010 16:39:01 Type: QC
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be2348	Ca3179	Cd2288	Co2388	Cr2835	Cu2247	Fe2343	Mg2790
Avg	**447.**	**5240.**	**4990.**	**5150.**	**498.**	**4920.**	**501.**	**4970.**	**4880.**	**5050.**	**5290.**	**4600.**
Stddev	19.	230.	191.	243.	25.	251.	19.	235.	243.	194.	215.	262.
%RSD	4.26	4.40	3.82	4.73	5.05	5.10	3.70	4.73	4.98	3.84	4.07	5.70
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068	Se2062	Tl1908	V_2908	Zn2062
Avg	**5120.**	**4990.**	**5150.**	**5090.**	**4780.**	**5120.**	**4550.**	**5020.**	**5020.**
Stddev	243.	191.	3.	213.	185.	215.	201.	198.	206.
%RSD	4.75	3.83	.052	4.19	3.86	4.19	4.42	3.95	4.10
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**71293.**
Stddev	2843.
%RSD	3.9880

Sample Name: ccv2 Acquired: 11/29/2010 16:44:18 Type: QC
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4934	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	**51.4**	**543.**	**538.**	**535.**	**51.9**	**502.**	**51.8**	**526.**	**522.**	**543.**	**551.**	**533.**
Stddev	.9	2.	11.	3.	.2	2.	.2	2.	13.	1.	6.	1.
%RSD	1.76	.452	2.11	.480	.383	.466	.332	.405	2.44	.191	1.17	.103
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	**529.**	**527.**	**516.**	**533.**	**527.**	**558.**	**473.**	**536.**	**531.**
Stddev	2.	1.	2.	1.	4.	7.	2.	7.	1.
%RSD	.368	.099	.412	.239	.797	1.18	.493	1.39	.237
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**69507.**
Stddev	283.
%RSD	.40726

Sample Name: ccb Acquired: 11/29/2010 16:55:00 Type: QC
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**.360**	**.113**	**-5.06**	**.064**	**.045**	**-3.37**	**.021**	**.167**	**-.749**	**-.194**	**-144.**	**.657**
Stddev	.711	5.65	6.56	.184	.047	.20	.138	.159	1.30	.418	10.	.125
%RSD	198.	4980.	130.	287.	105.	5.86	655.	94.8	174.	215.	6.85	19.0
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**.469**	**-1.24**	**-.471**	**-.606**	**-7.04**	**-6.57**	**-3.03**	**-.749**	**-.685**
Stddev	.232	.18	.587	2.11	3.21	11.5	4.56	.855	.146
%RSD	49.5	14.2	125.	348.	45.6	175.	151.	114.	21.3
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**69054.**
Stddev	321.
%RSD	.46516

Sample Name: 870202 Acquired: 11/29/2010 17:00:32 Type: Unk
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 5
Comment:

Elem	Ag3280	Al3961	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.332**	**102000.**	**-20.3**	**750.**	**5.80**	**35400.**	**3.98**	**90.8**	**204.**	**123.**
Stddev	.626	1180.	10.8	13.	.19	342.	.13	.4	3.	1.
%RSD	189.	1.15	53.3	1.69	3.22	.966	3.28	.437	1.61	.812

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**212000.**	**20600.**	**6710.**	**8.83**	**167.**	**209.**	**-3.92**	**3.90**	**4.49**	**197.**
Stddev	633.	375.	78.	1.38	2.	2.	2.57	7.09	4.25	3.
%RSD	.299	1.82	1.17	15.6	1.48	.994	65.6	182.	94.6	1.36

Elem	Zn2138
Units	ug/L
Avg	**517.**
Stddev	1.
%RSD	.216

Int. Std.	Y_3600
Units	Cts/S
Avg	**69501.**
Stddev	564.
%RSD	.81216

Sample Name: 870203 Acquired: 11/29/2010 17:06:18 Type: Unk
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 5
Comment:

Elem	Ag3280	Al3961	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.322**	**103000.**	**-19.0**	**747.**	**5.13**	**22500.**	**3.41**	**69.5**	**238.**	**95.5**
Stddev	.195	2710.	12.5	20.	.20	659.	.04	1.5	3.	1.7
%RSD	60.4	2.63	65.5	2.61	3.95	2.94	1.10	2.14	1.18	1.82

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**204000.**	**15800.**	**7700.**	**9.48**	**141.**	**154.**	**-3.99**	**19.5**	**2.29**	**202.**
Stddev	6510.	323.	188.	1.61	2.	1.	6.02	2.5	4.13	4.
%RSD	3.20	2.04	2.44	16.9	1.60	.642	151.	12.7	180.	2.16

Elem	Zn2138
Units	ug/L
Avg	**421.**
Stddev	8.
%RSD	1.88

Int. Std.	Y_3600
Units	Cts/S
Avg	**70134.**
Stddev	321.
%RSD	.45819

Sample Name: 870204 Acquired: 11/29/2010 17:12:04 Type: Unk
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 5
Comment:

Elem	Ag3280	Al3961	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1.02**	**97200.**	**-29.0**	**941.**	**5.72**	**34800.**	**3.78**	**72.6**	**634.**	**84.5**
Stddev	.33	1280.	16.3	14.	.05	344.	.43	.5	3.	1.9
%RSD	32.6	1.31	56.2	1.46	.832	.988	11.3	.675	.397	2.24

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**185000.**	**15700.**	**13300.**	**10.3**	**121.**	**180.**	**3.37**	**16.4**	**10.1**	**195.**
Stddev	893.	229.	153.	1.3	1.	4.	1.92	5.0	9.1	3.
%RSD	.483	1.46	1.15	12.7	.472	2.22	56.9	30.2	90.2	1.41

Elem	Zn2138
Units	ug/L
Avg	**486.**
Stddev	5.
%RSD	1.01

Int. Std.	Y_3600
Units	Cts/S
Avg	**70595.**
Stddev	152.
%RSD	.21564

Sample Name: 870207 Acquired: 11/29/2010 17:17:50 Type: Unk
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 5
Comment:

Elem	Ag3280	Al3961	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.739**	**97100.**	**-19.1**	**865.**	**5.59**	**37100.**	**4.03**	**77.3**	**1200.**	**105.**
Stddev	.109	2420.	8.0	21.	.07	924.	.13	1.2	32.	1.
%RSD	14.8	2.49	42.0	2.44	1.22	2.49	3.29	1.52	2.66	.618

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**196000.**	**17900.**	**8320.**	**11.1**	**150.**	**158.**	**10.2**	**9.10**	**6.64**	**195.**
Stddev	5410.	558.	207.	.5	.	4.	5.5	1.95	7.71	3.
%RSD	2.76	3.12	2.49	4.80	.089	2.65	53.6	21.4	116.	1.67

Elem	Zn2138
Units	ug/L
Avg	**477.**
Stddev	8.
%RSD	1.73

Int. Std.	Y_3600
Units	Cts/S
Avg	**69899.**
Stddev	1263.
%RSD	1.8065

Sample Name: 871184 Acquired: 11/29/2010 17:23:35 Type: Unk
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 5
Comment:

Elem	Ag3280	Al3092	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1.50**	**81600.**	**-90.5**	**2060.**	**6.63**	**509000.**	**6.72**	**71.2**	**155.**	**81.8**
Stddev	.27	2120.	12.1	56.	.24	14800.	.12	2.3	2.	3.8
%RSD	18.1	2.60	13.4	2.69	3.66	2.91	1.73	3.17	1.12	4.68

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**225000.**	**22900.**	**11300.**	**12.8**	**145.**	**120.**	**-5.10**	**17.5**	**5.85**	**159.**
Stddev	4840.	888.	280.	.9	5.	4.	2.70	11.7	4.89	1.
%RSD	2.15	3.87	2.48	6.83	3.20	2.98	52.9	67.3	83.7	.413

Elem	Zn2138
Units	ug/L
Avg	**495.**
Stddev	13.
%RSD	2.69

Int. Std.	Y_3600
Units	Cts/S
Avg	**68974.**
Stddev	444.
%RSD	.64427

Sample Name: 871186 Acquired: 11/29/2010 17:29:22 Type: Unk
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 5
Comment:

Elem	Ag3280	Al3092	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.098**	**38700.**	**-10.1**	**636.**	**4.67**	**434000.**	**4.50**	**195.**	**93.0**	**902.**
Stddev	.151	1820.	11.7	34.	.25	24100.	.17	6.	1.4	28.
%RSD	155.	4.70	116.	5.27	5.32	5.55	3.81	3.00	1.47	3.07

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**101000.**	**24400.**	**5310.**	**2.75**	**158.**	**202.**	**214.**	**5.40**	**-.656**	**45.4**
Stddev	4320.	1370.	232.	.83	4.	8.	7.	7.53	7.54	2.1
%RSD	4.29	5.61	4.37	30.3	2.55	3.83	3.14	139.	1150.	4.62

Elem	Zn2062
Units	ug/L
Avg	**5760.**
Stddev	168.
%RSD	2.91

Int. Std.	Y_3600
Units	Cts/S
Avg	**68492.**
Stddev	421.
%RSD	.61495

Sample Name: 871187 Acquired: 11/29/2010 17:35:07 Type: Unk
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 5
Comment:

Elem	Ag3280	Al3961	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1.43**	**96200.**	**-28.7**	**908.**	**4.50**	**244000.**	**4.52**	**62.4**	**555.**	**67.3**
Stddev	.44	5710.	16.9	51.	.19	12300.	.41	.9	13.	2.4
%RSD	30.8	5.94	58.8	5.59	4.16	5.06	9.19	1.48	2.25	3.58

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**164000.**	**20700.**	**9540.**	**5.89**	**107.**	**107.**	**.069**	**6.81**	**2.49**	**183.**
Stddev	9670.	1100.	543.	.81	2.	1.	3.14	6.87	1.70	3.
%RSD	5.89	5.30	5.69	13.7	1.69	1.36	4550.	101.	68.2	1.77

Elem	Zn2138
Units	ug/L
Avg	**388.**
Stddev	9.
%RSD	2.25

Int. Std.	Y_3600
Units	Cts/S
Avg	**69791.**
Stddev	556.
%RSD	.79736

Sample Name: 871188 Acquired: 11/29/2010 17:40:54 Type: Unk
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 5
Comment:

Elem	Ag3280	Al3092	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1.02**	**88700.**	**-55.3**	**5820.**	**11.9**	**1490000.**	**11.4**	**58.5**	**329.**
Stddev	.23	1770.	12.8	126.	.2	22600.	.2	.5	6.
%RSD	22.9	1.99	23.2	2.17	1.93	1.52	1.48	.842	1.81

Elem	Cu2247	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**106.**	**241000.**	**67000.**	**14300.**	**15.3**	**168.**	**273.**	**.363**	**13.3**
Stddev	3.	3520.	1280.	257.	.8	2.	1.	4.46	14.0
%RSD	2.51	1.46	1.91	1.81	5.54	.962	.372	1230.	105.

Elem	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L
Avg	**13.5**	**114.**	**695.**
Stddev	10.7	2.	4.
%RSD	79.6	2.04	.642

Int. Std.	Y_3600
Units	Cts/S
Avg	**68800.**
Stddev	401.
%RSD	.58290

Sample Name: 871189 Acquired: 11/29/2010 17:46:46 Type: Unk
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 5
Comment:

Elem	Ag3280	Al3092	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1.17**	**78400.**	**-66.3**	**1770.**	**5.25**	**409000.**	**19.2**	**78.2**	**147.**	**96.8**
Stddev	.17	297.	19.2	3.	.08	1170.	.3	.3	1.	.7
%RSD	14.3	.379	28.9	.172	1.48	.285	1.47	.401	.706	.753

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**210000.**	**23300.**	**8880.**	**11.4**	**171.**	**140.**	**-7.88**	**6.03**	**-.091**	**163.**
Stddev	909.	169.	13.	.8	1.	2.	4.19	10.2	4.09	1.
%RSD	.433	.727	.150	7.23	.375	1.68	53.2	169.	4480.	.446

Elem	Zn2062
Units	ug/L
Avg	**1680.**
Stddev	5.
%RSD	.271

Int. Std.	Y_3600
Units	Cts/S
Avg	**70032.**
Stddev	297.
%RSD	.42383

Sample Name: 871190 Acquired: 11/29/2010 17:52:33 Type: Unk
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 5
Comment:

Elem	Ag3280	Al3961	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.939**	**106000.**	**-26.5**	**1010.**	**5.96**	**198000.**	**5.15**	**95.6**	**1140.**	**124.**
Stddev	.545	7030.	3.9	62.	.32	11000.	.19	3.7	79.	3.
%RSD	58.1	6.62	14.6	6.13	5.29	5.54	3.58	3.85	6.98	2.32

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**196000.**	**21800.**	**13100.**	**10.9**	**167.**	**131.**	**9.29**	**14.1**	**-1.18**	**199.**
Stddev	13900.	1110.	837.	2.1	3.	5.	3.02	10.0	7.49	7.
%RSD	7.06	5.11	6.40	19.6	1.51	3.64	32.5	71.1	634.	3.50

Elem	Zn2138
Units	ug/L
Avg	**447.**
Stddev	19.
%RSD	4.26

Int. Std.	Y_3600
Units	Cts/S
Avg	**70916.**
Stddev	1722.
%RSD	2.4275

Sample Name: ccv1 Acquired: 11/29/2010 17:58:17 Type: QC
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be2348	Ca3179	Cd2288	Co2388	Cr2835	Cu2247	Fe2343	Mg2790
Avg	**466.**	**5370.**	**5180.**	**5600.**	**512.**	**5100.**	**531.**	**5180.**	**5120.**	**5440.**	**5080.**	**5250.**
Stddev	14.	249.	150.	244.	19.	199.	14.	194.	190.	152.	141.	250.
%RSD	2.96	4.64	2.89	4.36	3.65	3.90	2.68	3.75	3.71	2.79	2.77	4.76
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2593	Mo2045	Ni2216	Pb2169	Sb2175	Se2062	Tl1908	V_2908	Zn2062
Avg	**5330.**	**5220.**	**5040.**	**5350.**	**4980.**	**5510.**	**4920.**	**5190.**	**5160.**
Stddev	205.	137.	11.	130.	119.	211.	164.	151.	149.
%RSD	3.85	2.63	.225	2.44	2.39	3.83	3.33	2.91	2.90
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**69017.**
Stddev	1990.
%RSD	2.8835

Sample Name: ccv2 Acquired: 11/29/2010 18:03:34 Type: QC
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4934	Be3130	Ca3933	Cd2265	Co2286	Co2388	Cr2677	Cu2247	Mg2795
Avg	**51.0**	**587.**	**516.**	**568.**	**53.6**	**591.**	**55.3**	**543.**	**527.**	**561.**	**566.**	**535.**
Stddev	.1	4.	21.	1.	.2	2.	.2	3.	2.	3.	3.	2.
%RSD	.237	.714	4.00	.104	.367	.310	.422	.566	.407	.548	.602	.310
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**535.**	**529.**	**524.**	**539.**	**501.**	**538.**	**487.**	**539.**	**536.**
Stddev	2.	4.	.	5.	5.	16.	13.	4.	2.
%RSD	.371	.679	.078	.939	1.08	2.88	2.59	.806	.417
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**69576.**
Stddev	355.
%RSD	.51041

Sample Name: ccb Acquired: 11/29/2010 18:14:17 Type: QC
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**.044**	**-6.72**	**-5.61**	**-.382**	**.076**	**-1.98**	**-.092**	**.343**	**-1.38**	**.358**	**-134.**	**.961**
Stddev	.365	.82	5.84	.167	.080	.21	.051	.149	.71	.435	8.	.143
%RSD	828.	12.3	104.	43.7	105.	10.4	55.7	43.5	51.3	121.	5.76	14.9
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	**.724**	**-.957**	**.149**	**.013**	**-9.73**	**-5.25**	**-2.87**	**-1.82**	**-.616**
Stddev	.358	.377	.226	1.72	2.97	3.09	4.95	1.01	.082
%RSD	49.4	39.5	152.	13300.	30.6	58.9	172.	55.6	13.3
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**68955.**
Stddev	873.
%RSD	1.2654

Sample Name: 871191 Acquired: 11/29/2010 18:19:48 Type: Unk
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 5
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1.37**	**70100.**	**88.7**	**4440.**	**6.69**	**1130000.**	**9.81**	**64.0**	**317.**
Stddev	.12	2730.	8.0	168.	.27	44900.	.20	1.2	2.
%RSD	9.03	3.89	8.99	3.78	4.09	3.99	2.01	1.89	.571

Elem	Cu2247	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**100.**	**290000.**	**30300.**	**9930.**	**17.0**	**178.**	**128.**	**1.55**	**7.01**
Stddev	.	9170.	1180.	358.	1.3	1.	3.	2.16	5.77
%RSD	.456	3.16	3.90	3.60	7.91	.813	2.20	140.	82.3

Elem	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L
Avg	**12.9**	**136.**	**706.**
Stddev	2.4	.	12.
%RSD	18.3	.198	1.65

Int. Std.	Y_3600
Units	Cts/S
Avg	**67797.**
Stddev	443.
%RSD	.65304

Sample Name: 871192 Acquired: 11/29/2010 18:25:44 Type: Unk
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 5
Comment:

Elem	Ag3280	Al3092	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.837**	**86800.**	**-28.9**	**837.**	**4.49**	**368000.**	**2.85**	**62.9**	**515.**	**81.9**
Stddev	.795	2230.	7.5	22.	.17	12300.	.26	1.5	13.	1.4
%RSD	95.0	2.57	25.7	2.62	3.86	3.34	8.92	2.33	2.42	1.66

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**170000.**	**17300.**	**7350.**	**6.34**	**127.**	**116.**	**3.96**	**-1.37**	**3.26**	**173.**
Stddev	4670.	428.	176.	.99	3.	1.	4.47	12.6	5.74	3.
%RSD	2.75	2.47	2.40	15.6	2.04	1.10	113.	915.	176.	1.67

Elem	Zn2138
Units	ug/L
Avg	**405.**
Stddev	10.
%RSD	2.41

Int. Std.	Y_3600
Units	Cts/S
Avg	**68448.**
Stddev	841.
%RSD	1.2290

Sample Name: 871193 Acquired: 11/29/2010 18:31:32 Type: Unk
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 5
Comment:

Elem	Ag3280	Al3092	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.306**	**81200.**	**.013**	**819.**	**5.80**	**342000.**	**3.38**	**75.4**	**121.**	**123.**
Stddev	.257	704.	22.0	12.	.05	3110.	.08	.4	2.	1.
%RSD	84.2	.867	172000.	1.47	.846	.908	2.47	.514	1.41	.455

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**168000.**	**20300.**	**6560.**	**6.77**	**148.**	**115.**	**-7.84**	**12.8**	**4.05**	**145.**
Stddev	816.	261.	59.	.29	2.	.	4.94	12.2	3.88	.
%RSD	.485	1.29	.904	4.27	1.31	.429	63.1	95.2	95.7	.163

Elem	Zn2138
Units	ug/L
Avg	**445.**
Stddev	3.
%RSD	.755

Int. Std.	Y_3600
Units	Cts/S
Avg	**68205.**
Stddev	39.
%RSD	.05748

Sample Name: 871194 Acquired: 11/29/2010 18:37:22 Type: Unk
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 5
Comment:

Elem	Ag3280	Al3092	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-.225**	**37200.**	**-25.6**	**447.**	**3.74**	**121000.**	**4.27**	**204.**	**1860.**	**928.**
Stddev	.179	943.	9.2	11.	.13	3030.	.13	.	50.	3.
%RSD	79.5	2.53	35.9	2.44	3.52	2.50	3.08	.106	2.71	.301

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**123000.**	**11400.**	**4130.**	**5.82**	**189.**	**217.**	**3.81**	**1.78**	**.611**	**62.8**
Stddev	2740.	246.	110.	.96	1.	1.	1.94	12.7	2.00	.4
%RSD	2.23	2.15	2.67	16.4	.471	.353	51.1	716.	328.	.710

Elem	Zn2062
Units	ug/L
Avg	**2850.**
Stddev	18.
%RSD	.630

Int. Std.	Y_3600
Units	Cts/S
Avg	**68223.**
Stddev	475.
%RSD	.69664

Sample Name: 871195 Acquired: 11/29/2010 18:42:52 Type: Unk
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 5
Comment:

Elem	Ag3280	Al3092	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.046**	**27900.**	**-46.8**	**288.**	**3.07**	**71600.**	**2.96**	**268.**	**77.9**	**1260.**
Stddev	.477	437.	9.4	6.	.07	1300.	.27	2.	.6	9.
%RSD	1040.	1.57	20.1	1.98	2.10	1.82	9.25	.579	.753	.699

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**130000.**	**8690.**	**4010.**	**2.09**	**145.**	**146.**	**-5.66**	**.764**	**3.88**	**55.6**
Stddev	1850.	164.	59.	1.29	1.	1.	4.77	1.83	7.11	1.3
%RSD	1.42	1.89	1.46	62.0	.700	.756	84.3	240.	183.	2.40

Elem	Zn2138
Units	ug/L
Avg	**503.**
Stddev	4.
%RSD	.797

Int. Std.	Y_3600
Units	Cts/S
Avg	**67746.**
Stddev	358.
%RSD	.52836

Sample Name: 871196 Acquired: 11/29/2010 18:48:23 Type: Unk
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 5
Comment:

Elem	Ag3280	Al3092	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.159**	**21500.**	**4.44**	**426.**	**2.14**	**336000.**	**2.63**	**698.**	**65.7**	**3420.**
Stddev	.284	689.	2.18	13.	.07	13500.	.11	12.	1.5	55.
%RSD	178.	3.21	49.0	3.07	3.52	4.01	4.12	1.65	2.32	1.61

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**92800.**	**8510.**	**2790.**	**1.89**	**259.**	**217.**	**-6.94**	**6.33**	**3.42**	**39.0**
Stddev	2760.	382.	95.	.90	4.	4.	2.25	8.43	3.11	.2
%RSD	2.97	4.49	3.41	47.7	1.39	1.65	32.4	133.	91.0	.412

Elem	Zn2138
Units	ug/L
Avg	**484.**
Stddev	9.
%RSD	1.85

Int. Std.	Y_3600
Units	Cts/S
Avg	**67266.**
Stddev	224.
%RSD	.33229

Sample Name: 871197 Acquired: 11/29/2010 18:54:01 Type: Unk
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 5
Comment:

Elem	Ag3280	Al3092	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.556**	**32500.**	**-17.1**	**660.**	**3.94**	**473000.**	**4.47**	**204.**	**82.7**	**944.**
Stddev	.096	954.	12.0	23.	.14	15100.	.22	2.	1.7	11.
%RSD	17.3	2.93	70.1	3.46	3.64	3.20	4.90	.978	2.01	1.18

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**106000.**	**17100.**	**4710.**	**3.00**	**163.**	**171.**	**-7.54**	**-7.02**	**6.12**	**43.6**
Stddev	3180.	683.	137.	.42	1.	3.	1.93	7.06	.20	.9
%RSD	2.99	3.98	2.90	13.9	.440	1.64	25.6	101.	3.19	1.96

Elem	Zn2062
Units	ug/L
Avg	**2990.**
Stddev	36.
%RSD	1.19

Int. Std.	Y_3600
Units	Cts/S
Avg	**67649.**
Stddev	385.
%RSD	.56891

Sample Name: 871198 Acquired: 11/29/2010 18:59:48 Type: Unk
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 5
Comment:

Elem	Ag3280	Al3092	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1.44**	**85500.**	**-73.9**	**2790.**	**7.70**	**570000.**	**8.59**	**80.4**	**812.**	**127.**
Stddev	.25	719.	5.6	23.	.17	7830.	.32	1.3	9.	4.
%RSD	17.6	.841	7.55	.839	2.18	1.37	3.72	1.65	1.06	3.20

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	TI1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**245000.**	**25200.**	**10600.**	**17.9**	**181.**	**176.**	**1.10**	**18.1**	**8.32**	**174.**
Stddev	1070.	380.	81.	1.2	1.	5.	1.14	7.8	5.38	3.
%RSD	.436	1.51	.761	6.60	.801	2.69	104.	43.2	64.6	1.73

Elem	Zn2138
Units	ug/L
Avg	**588.**
Stddev	9.
%RSD	1.61

Int. Std.	Y_3600
Units	Cts/S
Avg	**68705.**
Stddev	648.
%RSD	.94267

Sample Name: ccv1 Acquired: 11/29/2010 19:16:44 Type: QC
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be2348	Ca3179	Cd2288	Co2388	Cr2835	Cu2247	Fe2343	Mg2790
Avg	**466.**	**5230.**	**5110.**	**5310.**	**519.**	**5080.**	**519.**	**5100.**	**5080.**	**5180.**	**5490.**	**4610.**
Stddev	4.	17.	35.	8.	4.	21.	2.	28.	25.	19.	47.	14.
%RSD	.801	.333	.687	.155	.767	.422	.311	.540	.487	.364	.850	.315
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068	Se2062	Tl1908	V_2908	Zn2062
Avg	**5290.**	**5090.**	**5160.**	**5290.**	**4970.**	**5290.**	**4620.**	**5260.**	**5180.**
Stddev	33.	14.	5.	11.	26.	59.	12.	2.	25.
%RSD	.624	.279	.089	.199	.513	1.11	.259	.033	.484
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**68625.**
Stddev	272.
%RSD	.39586

Sample Name: ccv2 Acquired: 11/29/2010 19:22:00 Type: QC
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4934	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**51.0**	**536.**	**546.**	**531.**	**52.2**	**495.**	**50.7**	**517.**	**510.**	**533.**	**552.**	**480.**
Stddev	.7	5.	4.	8.	.5	6.	.3	3.	8.	4.	6.	7.
%RSD	1.33	1.02	.795	1.51	.965	1.21	.502	.562	1.48	.798	1.05	1.54
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**526.**	**518.**	**514.**	**530.**	**506.**	**552.**	**457.**	**541.**	**526.**
Stddev	6.	4.	2.	5.	6.	3.	1.	5.	3.
%RSD	1.14	.736	.374	.943	1.09	.519	.225	.860	.560
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**69806.**
Stddev	452.
%RSD	.64780

Sample Name: ccb Acquired: 11/29/2010 19:32:42 Type: QC
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

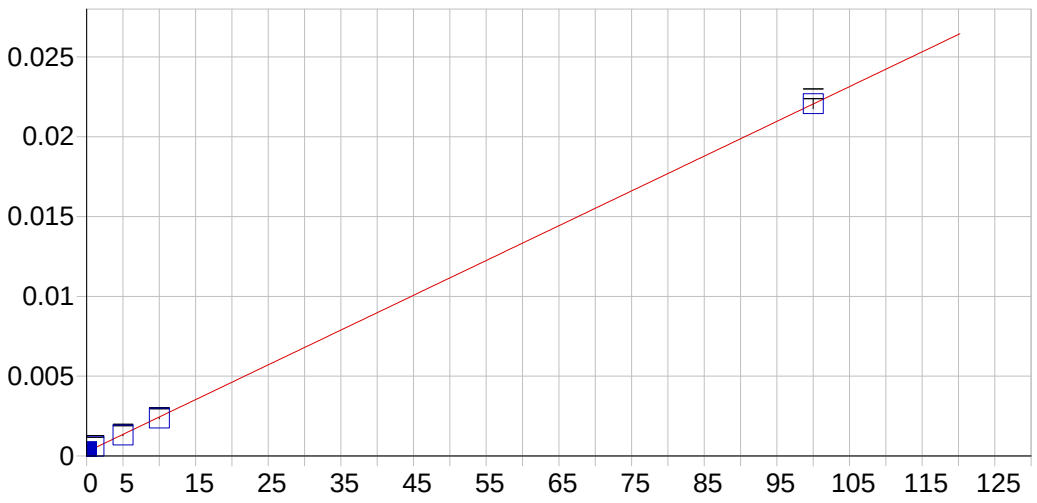
Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**.331**	**-5.18**	**-7.37**	**-.228**	**.043**	**-2.20**	**-.030**	**.068**	**-1.24**	**-1.43**	**-135.**	**.906**
Stddev	.694	2.40	5.36	.142	.049	.17	.144	.401	.44	.95	5.	.103
%RSD	210.	46.4	72.8	62.1	116.	7.53	478.	590.	35.0	67.0	3.86	11.4
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	**.685**	**-1.33**	**-.306**	**.471**	**-8.16**	**6.76**	**-3.33**	**-1.65**	**-.581**
Stddev	.185	.30	.427	.658	2.04	5.56	5.75	1.70	.124
%RSD	27.0	22.5	139.	140.	25.0	82.3	173.	103.	21.3
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**68128.**
Stddev	310.
%RSD	.45555

Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)	Correlation	Std Error of Est	Predicted MDL	Predicted MQL
Ag 328.068 {103}	12/03/2010 13:24:08	12/03/2010 13:24:08	Linear	None	0.000262	0.000218	0.000000	1.000000	0.999969	0.000086	0.782889	2.609630
Ag 338.289 {100}	12/03/2010 12:40:18	12/03/2010 12:40:18	Linear	None	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	-1.000000	-1.000000
Al 167.079 {502}	12/03/2010 13:29:13	12/03/2010 13:29:13	Linear	None	0.000003	0.000002	0.000000	1.000000	0.999968	0.000009	2.185326	7.284421
Al 309.271 {109}	12/03/2010 13:46:44	12/03/2010 13:46:44	Linear	1/Conc	0.001036	0.000005	0.000000	1.000000	0.999458	0.000072	23.295930	77.653099
Al 396.152 { 85}	12/03/2010 13:58:49	12/03/2010 13:58:49	Full Fit	1/Conc	0.000191	0.000009	0.000000	1.020000	0.999904	0.000342	17.981099	59.936998
As 189.042 {479}	12/03/2010 13:34:58	12/03/2010 13:34:58	Linear	1/Conc	0.000001	0.000000	0.000000	1.000000	0.999916	0.000000	15.294384	50.981279
As 193.759 {474}	12/03/2010 13:29:13	12/03/2010 13:29:13	Linear	None	-0.000002	0.000000	0.000000	1.000000	0.999952	0.000002	15.455569	51.518562
Ba 455.403 { 74}	12/03/2010 13:24:08	12/03/2010 13:24:08	Linear	1/Conc	-0.000476	0.000490	0.000000	1.000000	0.999844	0.000004	0.515510	1.718368
Ba 493.409 { 68}	12/03/2010 13:34:58	12/03/2010 13:34:58	Linear	1/Conc	0.033137	0.000625	0.000000	1.000000	0.999983	0.000661	0.790795	2.635984
Be 234.861 {144}	12/03/2010 13:29:13	12/03/2010 13:29:13	Linear	None	-0.000100	0.000067	0.000000	1.000000	0.999997	0.000124	0.475079	1.583595
Be 313.042 {108}	12/03/2010 13:29:13	12/03/2010 13:29:13	Linear	1/Conc	0.000050	0.001028	0.000000	1.000000	0.999970	0.000005	0.108934	0.363113
Ca 317.933 {106}	12/03/2010 13:58:49	12/03/2010 13:58:49	Full Fit	1/Conc	0.003803	0.000015	-0.000000	0.990000	0.999965	0.000220	3.694505	12.315015
Ca 393.366 { 86}	12/06/2010 13:55:09	12/03/2010 13:29:13	Linear	None	0.011790	0.002655	0.000000	1.000000	1.000000	0.000000	0.054122	0.180407
Ca 396.847 { 85}	12/06/2010 13:58:31	12/03/2010 13:34:58	Linear	1/Conc	0.004308	0.000814	0.000000	1.000000	0.995910	0.003479	0.124558	0.415194
Cd 226.502 {449}	12/03/2010 13:29:13	12/03/2010 13:29:13	Linear	1/Conc	0.000006	0.000100	0.000000	1.000000	0.999812	0.000001	0.170774	0.569248
Cd 228.802 {447}	12/03/2010 13:29:13	12/03/2010 13:29:13	Linear	None	0.000031	0.000059	0.000000	1.000000	1.000000	0.000028	0.246135	0.820448
Co 228.616 {447}	12/03/2010 13:29:13	12/03/2010 13:29:13	Linear	1/Conc	-0.000003	0.000039	0.000000	1.000000	0.999959	0.000000	0.316067	1.053556
Co 238.892 {141}	12/03/2010 13:34:58	12/03/2010 13:34:58	Linear	1/Conc	0.000006	0.000006	0.000000	1.000000	0.999901	0.000014	5.341604	17.805347
Cr 267.716 {126}	12/03/2010 13:29:13	12/03/2010 13:29:13	Linear	1/Conc	-0.000011	0.000105	0.000000	1.000000	0.999532	0.000004	0.761934	2.539780
Cr 283.563 {119}	12/03/2010 13:40:52	12/03/2010 13:40:52	Linear	1/Conc	0.000069	0.000021	0.000000	1.000000	0.999991	0.000008	3.053421	10.178069
Cu 224.700 {450}	12/03/2010 13:34:58	12/03/2010 13:34:58	Linear	1/Conc	0.000086	0.000018	0.000000	1.000000	0.999892	0.000002	0.857844	2.859479
Cu 324.754 {104}	12/03/2010 13:40:52	12/03/2010 13:40:52	Linear	None	0.000943	0.000006	0.000000	1.000000	1.000000	0.000153	11.840714	39.469047
Cu 327.396 {103}	12/03/2010 13:29:13	12/03/2010 13:29:13	Linear	None	0.000881	0.000077	0.000000	1.000000	0.999927	0.000413	2.353007	7.843358
Fe 234.349 {144}	12/06/2010 14:05:25	12/03/2010 13:58:50	Full Fit	None	0.000059	0.000000	0.000000	1.030000	1.000000	0.000084	321.366440	1071.22146
Fe 239.562 {141}	12/06/2010 13:50:57	12/03/2010 13:34:58	Linear	None	0.000509	0.000003	0.000000	1.000000	0.999621	0.000712	6.935094	23.116979
Fe 259.940 {130}	12/06/2010 14:07:05	12/03/2010 13:29:14	Linear	1/Conc	0.000152	0.000021	0.000000	1.000000	0.996417	0.000011	2.352812	7.842707
Mg 279.079 {121}	12/06/2010 13:52:40	12/03/2010 13:58:50	Full Fit	None	0.000386	0.000001	0.000000	1.030000	1.000000	0.000256	61.906950	206.356499
Mg 279.553 {121}	12/03/2010 13:18:45	12/03/2010 13:18:45	Linear	None	0.000521	0.000354	0.000000	1.000000	0.999870	0.000151	0.085664	0.285547
Mg 280.270 {120}	12/06/2010 13:53:25	12/03/2010 13:34:58	Linear	1/Conc	0.000271	0.000216	0.000000	1.000000	0.996154	0.003446	0.184356	0.614520
Mn 257.610 {131}	12/03/2010 13:34:58	12/03/2010 13:34:58	Linear	1/Conc	0.000031	0.000116	0.000000	1.000000	0.999967	0.000004	0.544024	1.813415
Mn 259.373 {130}	12/03/2010 13:40:52	12/03/2010 13:40:52	Linear	1/Conc	-0.000007	0.000065	0.000000	1.000000	0.999918	0.000395	0.789048	2.630161
Mo 202.030 {467}	12/03/2010 13:29:14	12/03/2010 13:29:14	Linear	None	0.000004	0.000009	0.000000	1.000000	0.999999	0.000005	0.896640	2.988798
Mo 203.844 {465}	12/03/2010 13:29:14	12/03/2010 13:29:14	Linear	None	0.000008	0.000004	0.000000	1.000000	1.000000	0.000002	1.850950	6.169835
Mo 204.598 {465}	12/03/2010 13:34:58	12/03/2010 13:34:58	Linear	1/Conc	0.000003	0.000007	0.000000	1.000000	0.999949	0.000002	1.394092	4.646972
Ni 221.647 {452}	12/03/2010 13:34:58	12/03/2010 13:34:58	Linear	1/Conc	0.000004	0.000030	0.000000	1.000000	0.999895	0.000021	0.537311	1.791036
Ni 231.604 {445}	12/06/2010 14:31:10	12/03/2010 13:29:14	Linear	1/Conc	-0.000002	0.000028	0.000000	1.000000	0.999336	0.000002	0.494329	1.647764
Pb 216.999 {455}	12/03/2010 13:40:52	12/03/2010 13:40:52	Full Fit	None	0.000013	0.000001	0.000000	0.970000	1.000000	0.000000	10.791424	35.971414
Pb 220.353 {453}	12/03/2010 13:29:14	12/03/2010 13:29:14	Linear	1/Conc	-0.000010	0.000008	0.000000	1.000000	0.999804	0.000000	2.072715	6.909051
Sb 206.833 {463}	12/03/2010 13:34:58	12/03/2010 13:34:58	Linear	1/Conc	0.000002	0.000002	0.000000	1.000000	0.999963	0.000000	5.027101	16.757005
Sb 217.581 {455}	12/03/2010 13:34:59	12/03/2010 13:34:59	Linear	1/Conc	-0.000014	0.000001	0.000000	1.000000	0.998781	0.000000	22.755935	75.853116
Se 196.090 {472}	12/03/2010 13:34:59	12/03/2010 13:34:59	Linear	1/Conc	0.000008	0.000001	0.000000	1.000000	0.999175	0.000000	10.989014	36.630047
Se 206.279 {463}	12/03/2010 13:34:59	12/03/2010 13:34:59	Linear	None	0.000000	0.000000	0.000000	1.000000	0.999998	0.000003	54.697681	182.325602
Tl 190.856 {477}	12/03/2010 13:34:59	12/03/2010 13:34:59	Linear	1/Conc	-0.000006	0.000001	0.000000	1.000000	0.999550	0.000000	7.817368	26.057894
Tl 276.787 {122}	12/03/2010 13:34:59	12/03/2010 13:34:59	Linear	None	0.000022	0.000000	0.000000	1.000000	0.999986	0.000019	137.066887	456.889623

Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)	Correlation	Std Error of Est	Predicted MDL	Predicted MQL
V 290.882 {116}	12/03/2010 13:34:59	12/03/2010 13:34:59	Linear	1/Conc	0.001479	0.000132	0.000000	1.000000	0.999857	0.000406	0.817399	2.724663
V 292.402 {115}	12/03/2010 13:29:14	12/03/2010 13:29:14	Linear	None	-0.000027	0.000136	0.000000	1.000000	0.999999	0.000070	0.883468	2.944893
Zn 206.200 {463}	12/03/2010 13:40:52	12/03/2010 13:40:52	Full Fit	None	-0.000032	0.000024	-0.000000	0.970000	1.000000	0.000000	0.343458	1.144860
Zn 213.856 {458}	12/03/2010 13:29:14	12/03/2010 13:29:14	Linear	1/Conc	0.000116	0.000038	0.000000	1.000000	0.999957	0.000002	0.248361	0.827870
Y 360.073 { 94}*	12/03/2010 12:40:18	12/03/2010 12:40:18	Linear	None	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	-1.000000	-1.000000
B 249.773 {135}	12/03/2010 13:29:14	12/03/2010 13:29:14	Linear	None	0.000043	0.000007	0.000000	1.000000	0.999864	0.000072	6.303696	21.012320
Li 670.784 { 50}	12/03/2010 13:29:14	12/03/2010 13:29:14	Linear	None	0.001090	0.000179	0.000000	1.000000	0.999995	0.000244	2.062434	6.874779
Na 330.298 {102}	12/03/2010 13:46:44	12/03/2010 13:46:44	Linear	1/Conc	0.000011	0.000000	0.000000	1.000000	1.000000	0.000000	3383.86811	11279.5603
Si 251.611 {134}	12/03/2010 13:29:14	12/03/2010 13:29:14	Linear	None	0.000114	0.000000	0.000000	1.000000	1.000000	0.000000	575.029642	1916.76547
Sr 407.771 { 83}	12/03/2010 13:34:59	12/03/2010 13:34:59	Linear	1/Conc	-0.001611	0.001126	0.000000	1.000000	0.999644	0.000116	0.121208	0.404025
Ti 334.941 {101}	12/03/2010 13:29:14	12/03/2010 13:29:14	Linear	1/Conc	0.000091	0.000081	0.000000	1.000000	0.999912	0.000005	1.050606	3.502021

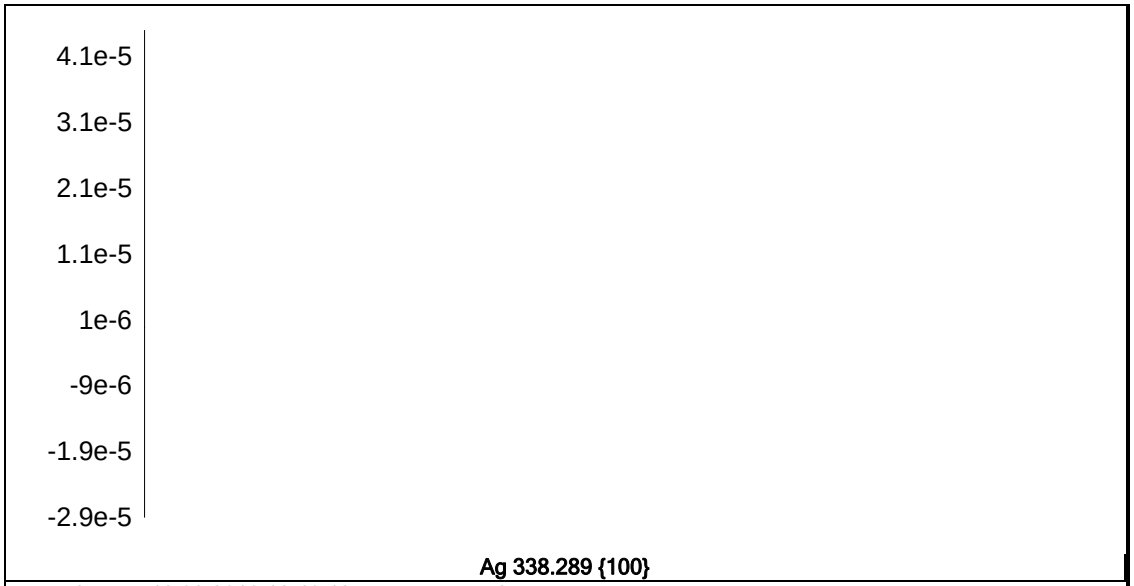


Ag 328.068 {103}

Date of Fit:	12/03/2010 13:24:08	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000262	Re-Slope:	1.000000
A1 (Gain):	0.000218	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999969	Status:	OK.
Std Error of Est:	0.000086		
Predicted MDL:	0.782889		
Predicted MQL:	2.609630		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.01178	-.012	.000	.00026	.000	1
CalibStd=100	100.00	100.04	.041	.041	.02206	.000	1
CalibStd=10	10.000	9.6377	-.362	-3.62	.00236	.000	1
CalibStd=1	1.0000	1.5368	.537	53.7	.00060	.000	1
CalibStd=5	5.0000	4.7962	-.204	-4.08	.00131	.000	1

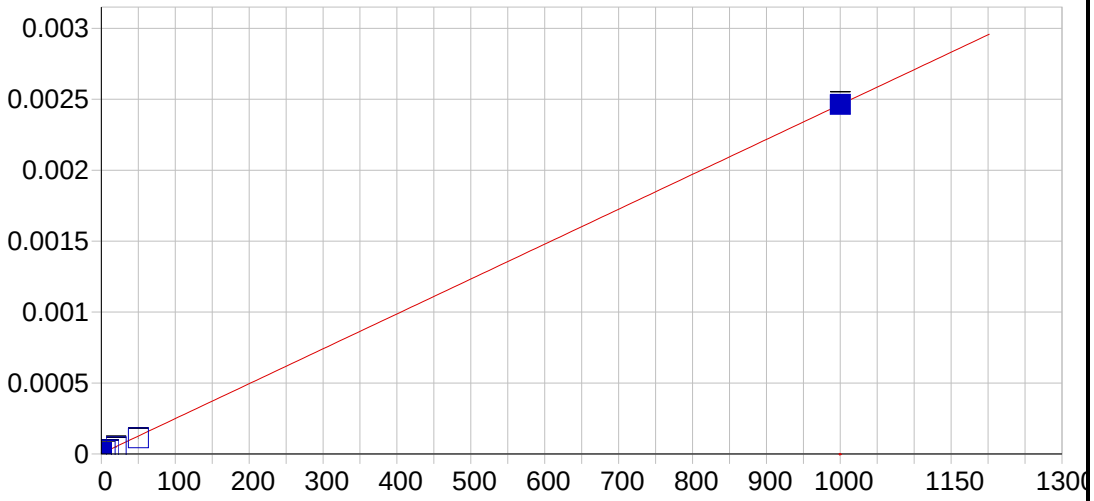


Ag 338.289 {100}

Date of Fit:	12/03/2010 12:40:18	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning Zero Gain
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00001	.000	1

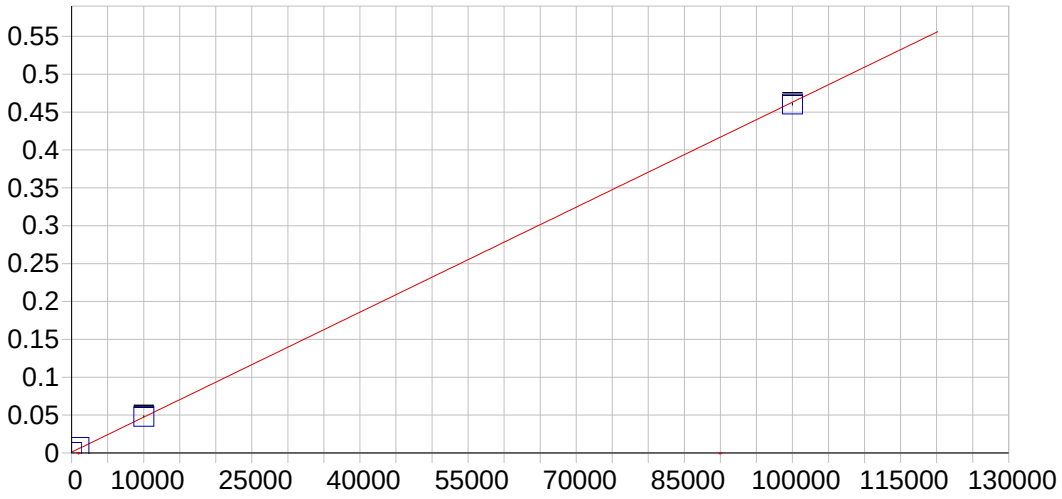


Al 167.079 {502}

Date of Fit:	12/03/2010 13:29:13	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000003	Re-Slope:	1.000000
A1 (Gain):	0.000002	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999968	Status:	OK.
Std Error of Est:	0.000009		
Predicted MDL:	2.185326		
Predicted MQL:	7.284421		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	3.0369	3.04	.000	.00001	.000	1
CalibStd=100	1000.0	1000.3	.286	.029	.00247	.000	1
CalibStd=20	20.000	18.978	-1.02	-5.11	.00005	.000	1
CalibStd=10	10.000	10.269	.269	2.69	.00003	.000	1
CalibStd=5	5.0000	8.1079	3.11	62.2	.00002	.000	1
CalibStd=50	50.000	44.322	-5.68	-11.4	.00011	.000	1

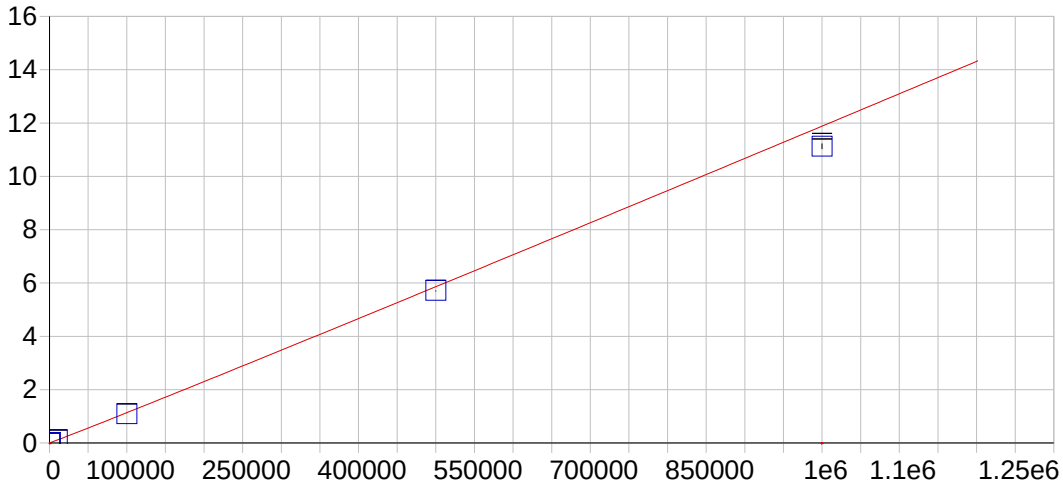


Al 309.271 {109}

Date of Fit:	12/03/2010 13:46:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001036	Re-Slope:	1.000000
A1 (Gain):	0.000005	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999458	Status:	OK.
Std Error of Est:	0.000072		
Predicted MDL:	23.295930		
Predicted MQL:	77.653099		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.35144	-.351	.000	.00103	.000	1
CalibStd=100	10000.	10212.	212.	2.12	.04822	.001	1
CalibStd=100	100000.	99453.	-547.	-.547	.46059	.002	1
CalibStd=100	1000.0	1335.8	336.	33.6	.00721	.000	1

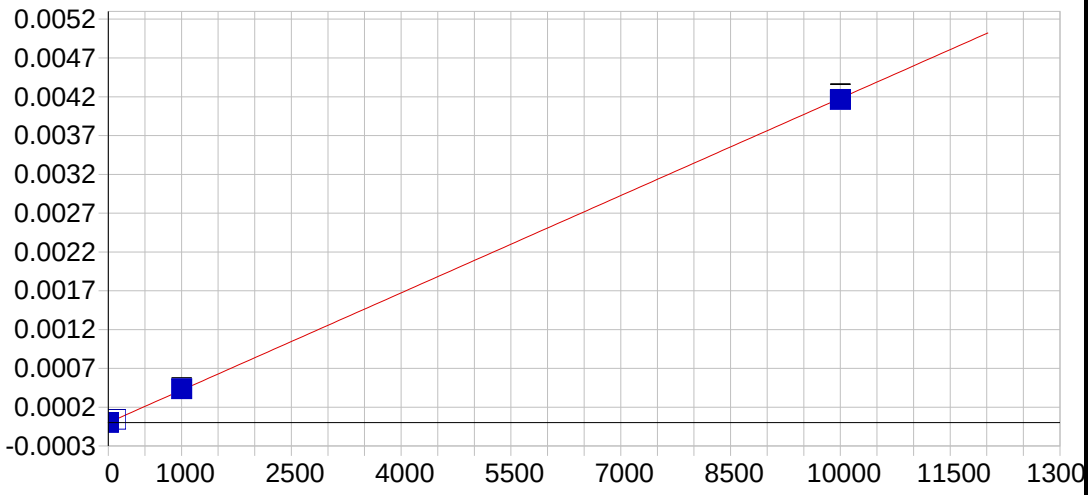


Al 396.152 { 85}

Date of Fit:	12/03/2010 13:58:49	Type of Fit:	Full Fit	Weighting:	1/Conc

A0 (Offset):	0.000191	Re-Slope:	1.000000
A1 (Gain):	0.000009	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.020000		
Correlation:	0.999904	Status:	OK.
Std Error of Est:	0.000342		
Predicted MDL:	17.981099		
Predicted MQL:	59.936998		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00019	.000	1
CalibStd=100	100000.	96538.	-3460.	-3.46	1.0950	.004	1
CalibStd-100	1000000.	937680.	-62300.	-6.23	11.129	.106	1
CalibStd=500	500000.	488420.	-11600.	-2.32	5.7217	.001	1
CalibStd=100	1000.0	1442.4	442.	44.2	.01523	.000	1
CalibStd=100	10000.	10415.	415.	4.15	.11316	.003	1

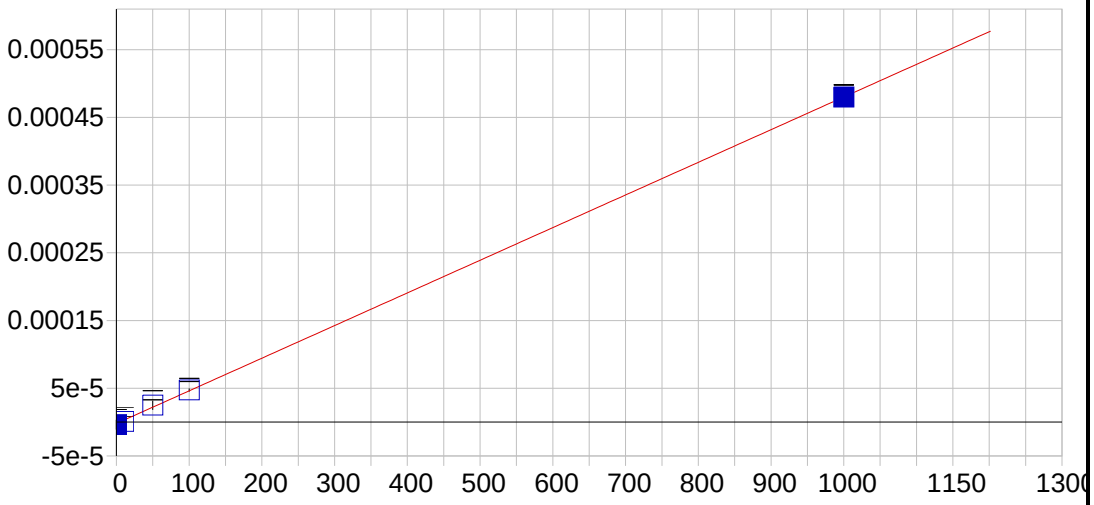


As 189.042 {479}

Date of Fit:	12/03/2010 13:34:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000001	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999916	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	15.294384		
Predicted MQL:	50.981279		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00434	-.004	.000	.00000	.000	1
CalibStd=100	1000.0	1041.0	41.0	4.10	.00044	.000	1
CalibStd=100	10000.	9958.4	-41.6	-.416	.00416	.000	1
CalibStd=100	100.00	100.66	.658	.658	.00004	.000	1

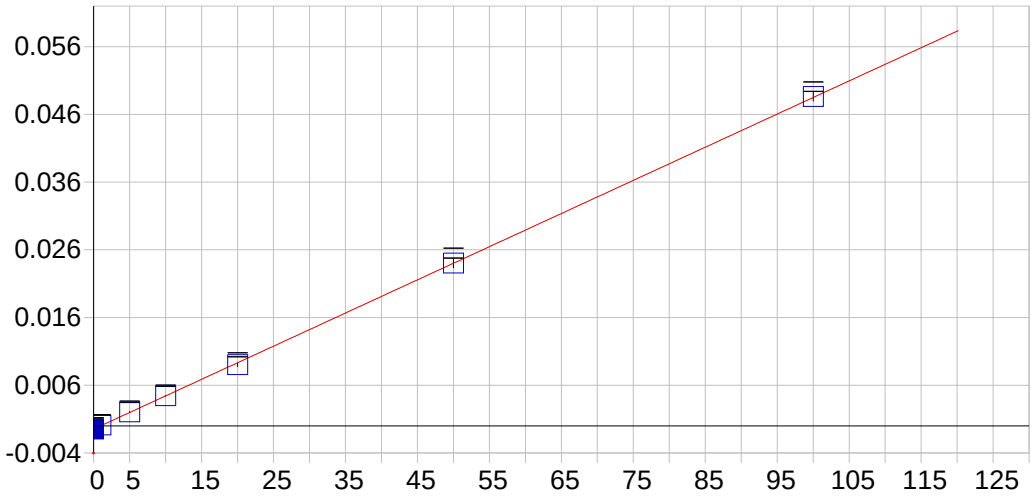


As 193.759 {474}

Date of Fit:	12/03/2010 13:29:13	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-0.000002	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999952	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	15.455569		
Predicted MQL:	51.518562		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-3.5778	-3.58	.000	.00000	.000	1
CalibStd=100	1000.0	999.50	-.498	-.050	.00048	.000	1
CalibStd=50	50.000	55.804	5.80	11.6	.00002	.000	1
CalibStd=10	10.000	5.7671	-4.23	-42.3	.00000	.000	1
CalibStd=100	100.00	102.50	2.50	2.50	.00005	.000	1

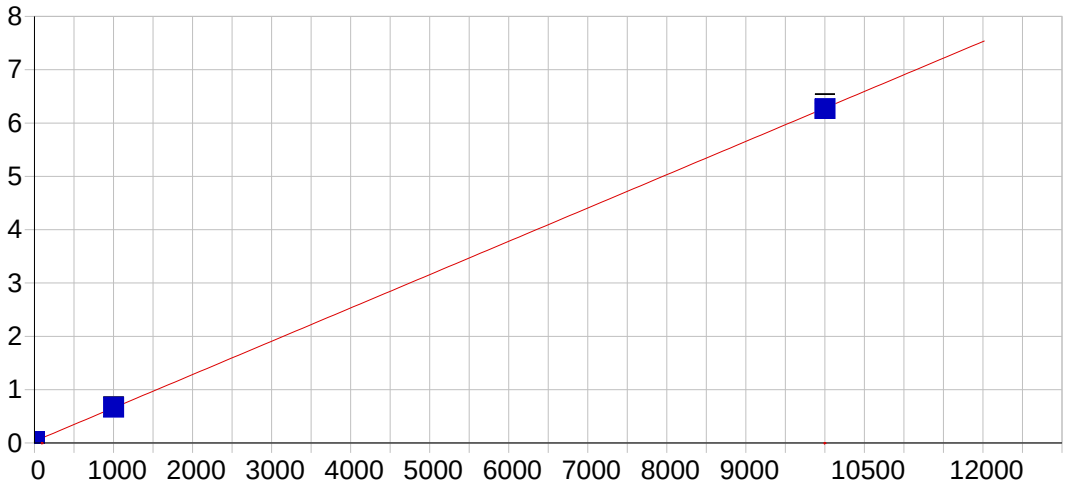


Ba 455.403 { 74}

Date of Fit:	12/03/2010 13:24:08	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000476	Re-Slope:	1.000000
A1 (Gain):	0.000490	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999844	Status:	OK.
Std Error of Est:	0.000004		
Predicted MDL:	0.515510		
Predicted MQL:	1.718368		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00019	.000	.000	-.00048	.000	1
CalibStd=50	50.000	50.020	.020	.040	.02402	.001	1
CalibStd=10	10.000	10.031	.031	.315	.00444	.000	1
CalibStd=20	20.000	19.371	-.629	-3.14	.00901	.000	1
CalibStd=100	100.00	100.23	.228	.228	.04861	.001	1
CalibStd=1	1.0000	1.1786	.179	17.9	.00010	.000	1
CalibStd=5	5.0000	5.1709	.171	3.42	.00206	.000	1

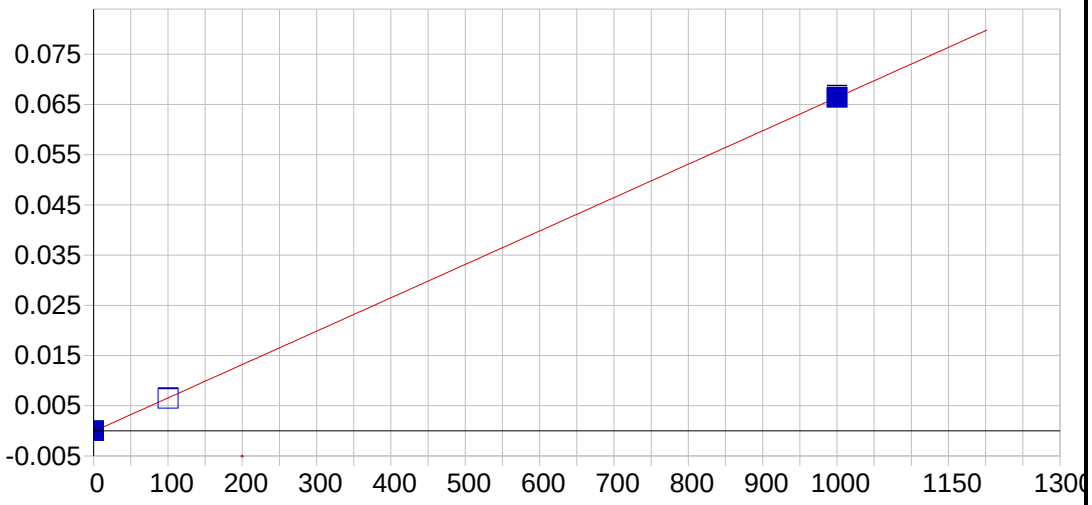


Ba 493.409 { 68}

Date of Fit:	12/03/2010 13:34:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.033137	Re-Slope:	1.000000
A1 (Gain):	0.000625	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999983	Status:	OK.
Std Error of Est:	0.000661		
Predicted MDL:	0.790795		
Predicted MQL:	2.635984		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.01657	-.017	.000	.03313	.000	1
CalibStd=100	1000.0	1018.4	18.4	1.84	.66932	.002	1
CalibStd=100	10000.	9981.6	-18.4	-.184	6.2684	.083	1

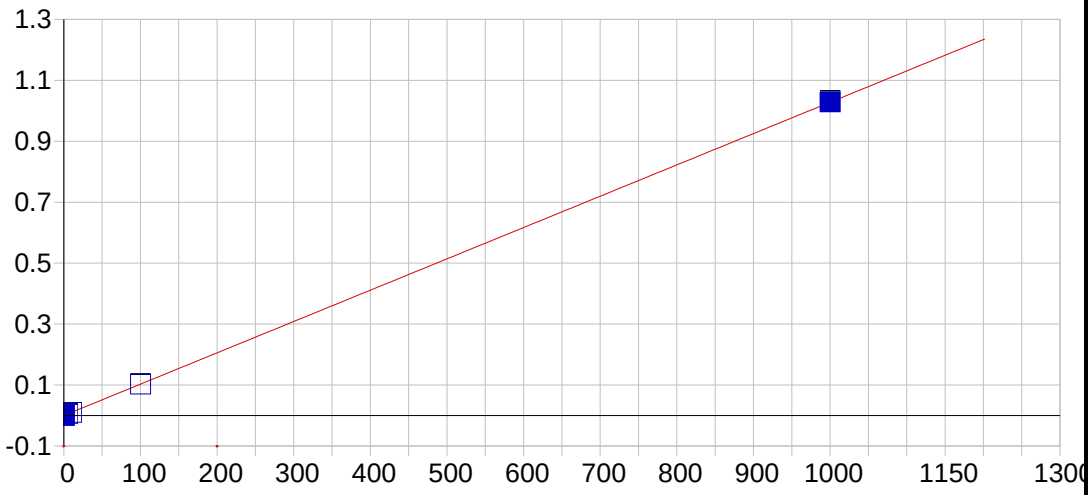


Be 234.861 {144}

Date of Fit:	12/03/2010 13:29:13	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-0.000100	Re-Slope:	1.000000
A1 (Gain):	0.000067	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999997	Status:	OK.
Std Error of Est:	0.000124		
Predicted MDL:	0.475079		
Predicted MQL:	1.583595		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	1.2448	1.24	.000	-.00002	.000	1
CalibStd=100	1000.0	1000.1	.138	.014	.06643	.000	1
CalibStd=100	100.00	98.617	-1.38	-1.38	.00646	.000	1

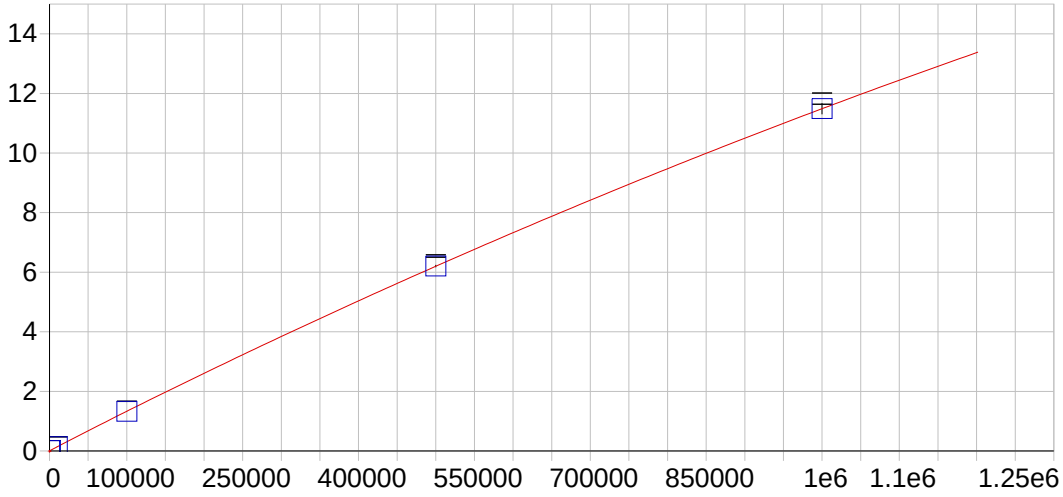


Be 313.042 {108}

Date of Fit:	12/03/2010 13:29:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000050	Re-Slope:	1.000000
A1 (Gain):	0.001028	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999970	Status:	OK.
Std Error of Est:	0.000005		
Predicted MDL:	0.108934		
Predicted MQL:	0.363113		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00005	.000	.000	.00005	.000	1
CalibStd=10	10.000	9.4825	-.518	-5.18	.00980	.000	1
CalibStd=100	100.00	99.606	-.394	-.394	.10245	.001	1
CalibStd=0.5	.50000	.63447	.134	26.9	.00070	.000	1
CalibStd=5	5.0000	4.9422	-.058	-1.16	.00513	.000	1
CalibStd=0.2	.25000	.24993	.000	-.028	.00031	.000	1
CalibStd=100	1000.0	1000.8	.835	.084	1.0289	.004	1

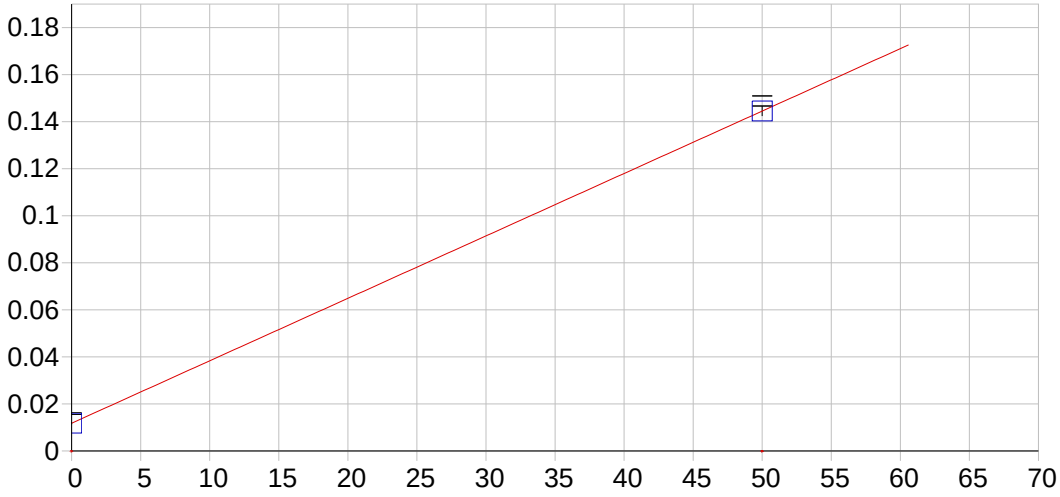


Ca 317.933 {106}

Date of Fit:	12/03/2010 13:58:49	Type of Fit:	Full Fit	Weighting:	1/Conc

A0 (Offset):	0.003803	Re-Slope:	1.000000
A1 (Gain):	0.000015	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	0.990000		
Correlation:	0.999965	Status:	OK.
Std Error of Est:	0.000220		
Predicted MDL:	3.694505		
Predicted MQL:	12.315015		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00380	.000	1
CalibStd=100	10000.	9817.8	-182.	-1.82	.13870	.004	1
CalibStd=100	100000.	99603.	-397.	-.397	1.3256	.005	1
CalibStd=500	500000.	500550.	546.	.109	6.2054	.041	1
CalibStd-100	1000000.	999730.	-267.	-.027	11.486	.187	1
CalibStd=100	1000.0	1280.0	280.	28.0	.02177	.000	1

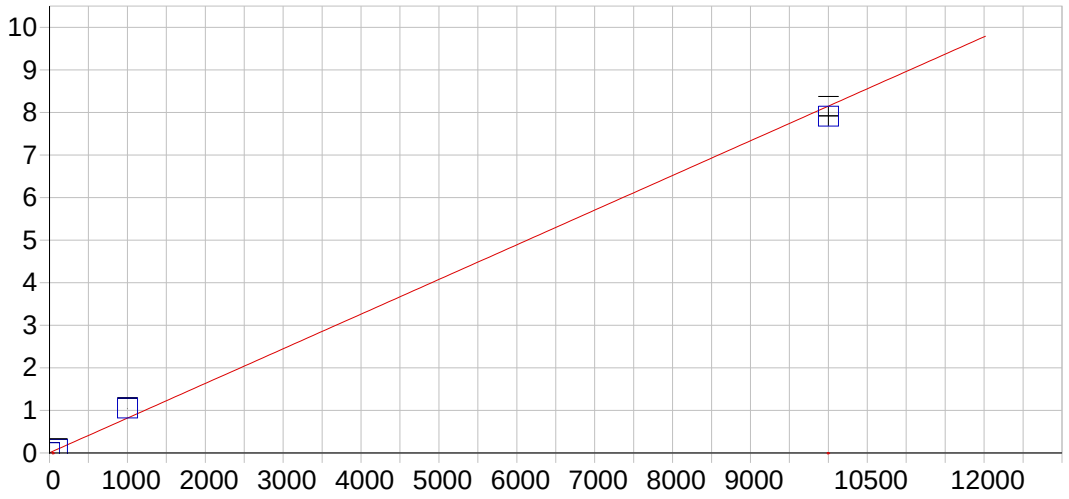


Ca 393.366 { 86}

Date of Fit:	12/06/2010 13:55:09	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.011790	Re-Slope:	1.000000
A1 (Gain):	0.002655	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.054122		
Predicted MQL:	0.180407		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.01179	.000	1
CalibStd=50	50.000	50.000	.000	.000	.14452	.002	1

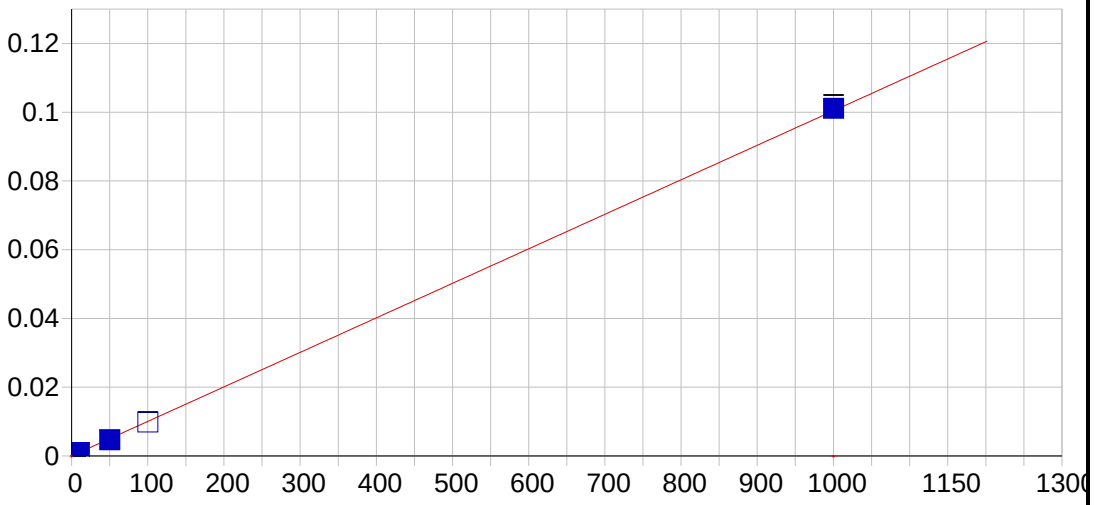


Ca 396.847 { 85}

Date of Fit:	12/06/2010 13:58:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004308	Re-Slope:	1.000000
A1 (Gain):	0.000814	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.995910	Status:	OK.
Std Error of Est:	0.003479		
Predicted MDL:	0.124558		
Predicted MQL:	0.415194		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.03263	-.033	.000	.00428	.000	1
CalibStd=100	10000.	9706.3	-294.	-2.94	7.9099	.227	1
CalibStd=100	100.00	106.89	6.89	6.89	.09136	.001	1
CalibStd=100	1000.0	1286.8	287.	28.7	1.0524	.003	1

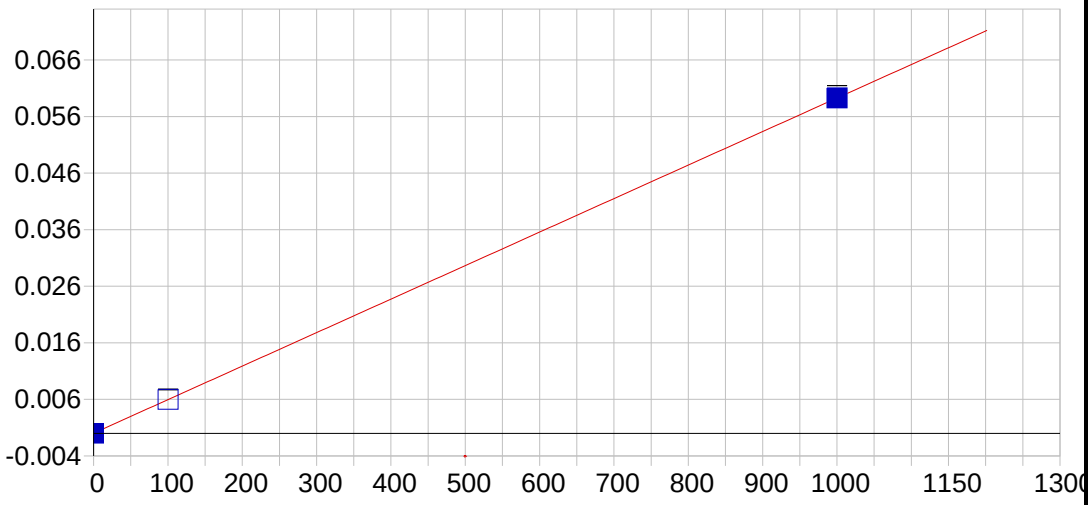


Cd 226.502 {449}

Date of Fit:	12/03/2010 13:29:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000006	Re-Slope:	1.000000
A1 (Gain):	0.000100	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999812	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	0.170774		
Predicted MQL:	0.569248		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00015	.000	.000	.00001	.000	1
CalibStd=50	50.000	46.349	-3.65	-7.30	.00466	.000	1
CalibStd=1	1.0000	.86191	-.138	-13.8	.00009	.000	1
CalibStd=0.5	.50000	.35253	-.147	-29.5	.00004	.000	1
CalibStd=5	5.0000	4.8804	-.120	-2.39	.00050	.000	1
CalibStd=0.2	.25000	.24999	.000	-.005	.00003	.000	1
CalibStd=100	100.00	97.807	-2.19	-2.19	.00983	.000	1
CalibStd=10	10.000	9.6280	-.372	-3.72	.00097	.000	1
CalibStd=100	1000.0	1006.6	6.62	.662	.10109	.001	1

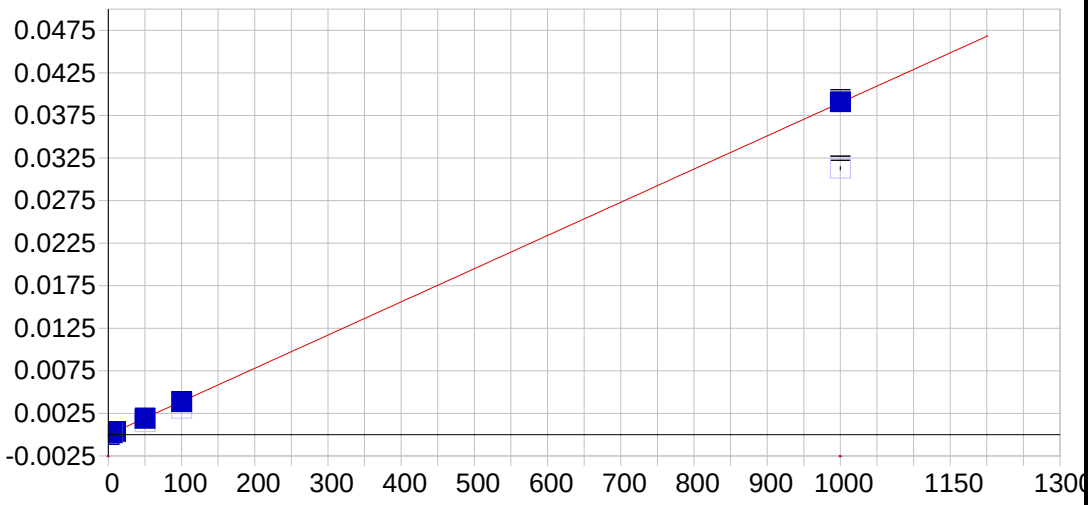


Cd 228.802 {447}

Date of Fit:	12/03/2010 13:29:13	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000031	Re-Slope:	1.000000
A1 (Gain):	0.000059	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000028		
Predicted MDL:	0.246135		
Predicted MQL:	0.820448		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.31870	-.319	.000	.00001	.000	1
CalibStd=100	1000.0	999.96	-.035	-.004	.05927	.000	1
CalibStd=100	100.00	100.35	.354	.354	.00598	.000	1

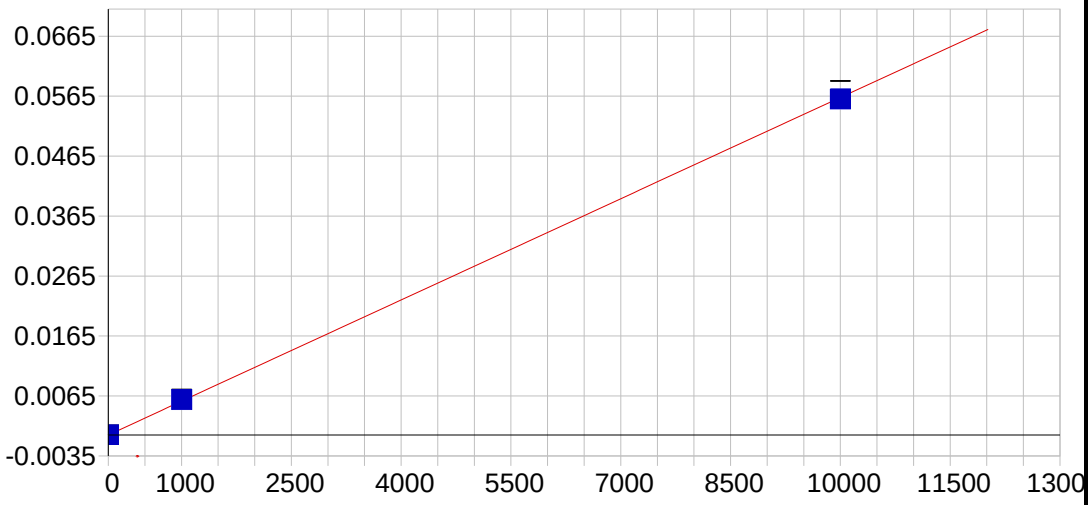


Co 228.616 {447}

Date of Fit:	12/03/2010 13:29:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000003	Re-Slope:	1.000000
A1 (Gain):	0.000039	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999959	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.316067		
Predicted MQL:	1.053556		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00004	.000	.000	.00000	.000	1
CalibStd=50	50.000	48.678	-1.32	-2.64	.00151	.000	1
CalibStd=10	10.000	9.8795	-.120	-1.20	.00030	.000	1
CalibStd=5	5.0000	5.0604	.060	1.21	.00016	.000	1
CalibStd=1	1.0000	1.0719	.072	7.19	.00004	.000	1
CalibStd=100	100.00	98.863	-1.14	-1.14	.00307	.000	1
CalibStd=100	1000.0	1002.4	2.43	.243	.03130	.000	1

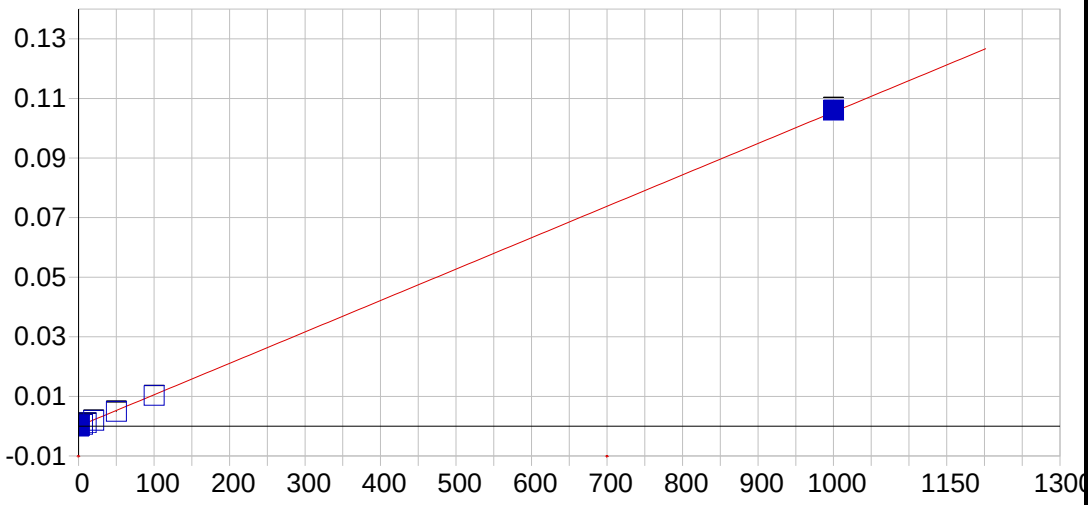


Co 238.892 {141}

Date of Fit:	12/03/2010 13:34:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000006	Re-Slope:	1.000000
A1 (Gain):	0.000006	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999901	Status:	OK.
Std Error of Est:	0.000014		
Predicted MDL:	5.341604		
Predicted MQL:	17.805347		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.03992	-.040	.000	.00001	.000	1
CalibStd=100	1000.0	1044.4	44.4	4.44	.00588	.000	1
CalibStd=100	10000.	9955.6	-44.4	-.444	.05597	.001	1

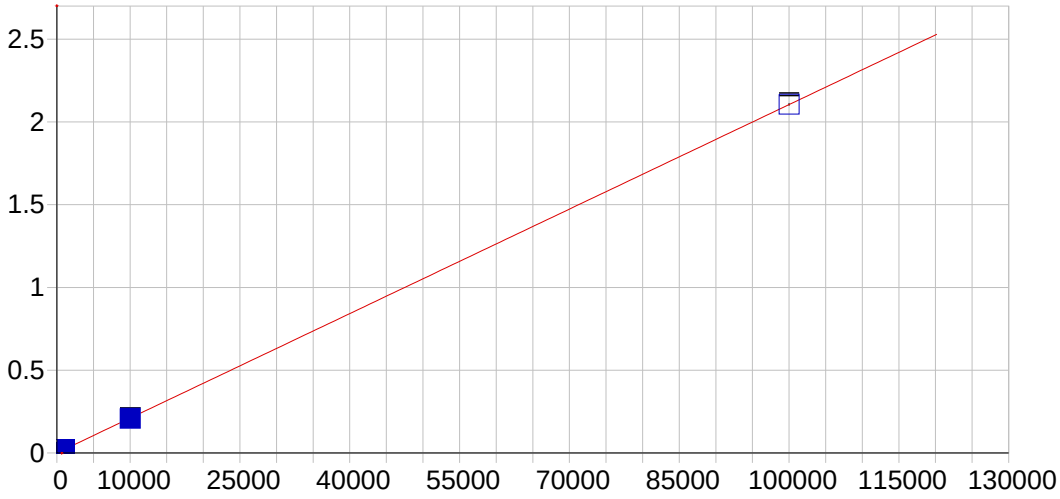


Cr 267.716 {126}

Date of Fit:	12/03/2010 13:29:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000011	Re-Slope:	1.000000
A1 (Gain):	0.000105	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999532	Status:	OK.
Std Error of Est:	0.000004		
Predicted MDL:	0.761934		
Predicted MQL:	2.539780		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00076	-.001	.000	-.00001	.000	1
CalibStd=10	10.000	10.064	.064	.636	.00105	.000	1
CalibStd=5	5.0000	5.6027	.603	12.1	.00058	.000	1
CalibStd=1	1.0000	1.7899	.790	79.0	.00018	.000	1
CalibStd=50	50.000	46.736	-3.26	-6.53	.00492	.000	1
CalibStd=100	1000.0	1005.7	5.72	.572	.10603	.001	1
CalibStd=20	20.000	18.531	-1.47	-7.35	.00194	.000	1
CalibStd=100	100.00	97.562	-2.44	-2.44	.01028	.000	1

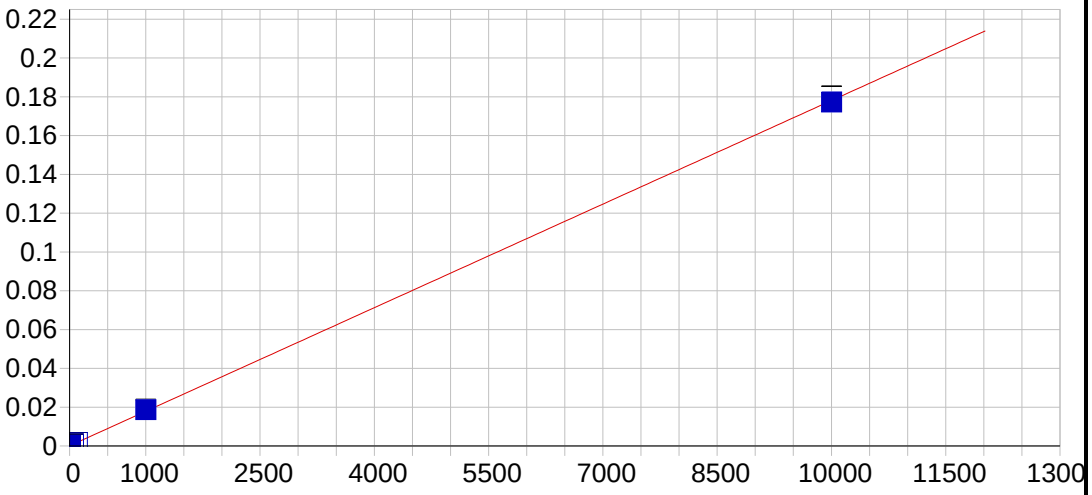


Cr 283.563 {119}

Date of Fit:	12/03/2010 13:40:52	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000069	Re-Slope:	1.000000
A1 (Gain):	0.000021	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999991	Status:	OK.
Std Error of Est:	0.000008		
Predicted MDL:	3.053421		
Predicted MQL:	10.178069		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00230	-.002	.000	.00007	.000	1
CalibStd=50	50.000	50.436	.436	.872	.00113	.000	1
CalibStd=100	100.00	101.57	1.57	1.57	.00221	.000	1
CalibStd=100	1000.0	1030.6	30.6	3.06	.02180	.000	1
CalibStd=100	10000.	9902.3	-97.7	-.977	.20884	.005	1
CalibStd-100	100000.	100070.	65.2	.065	2.1061	.008	1

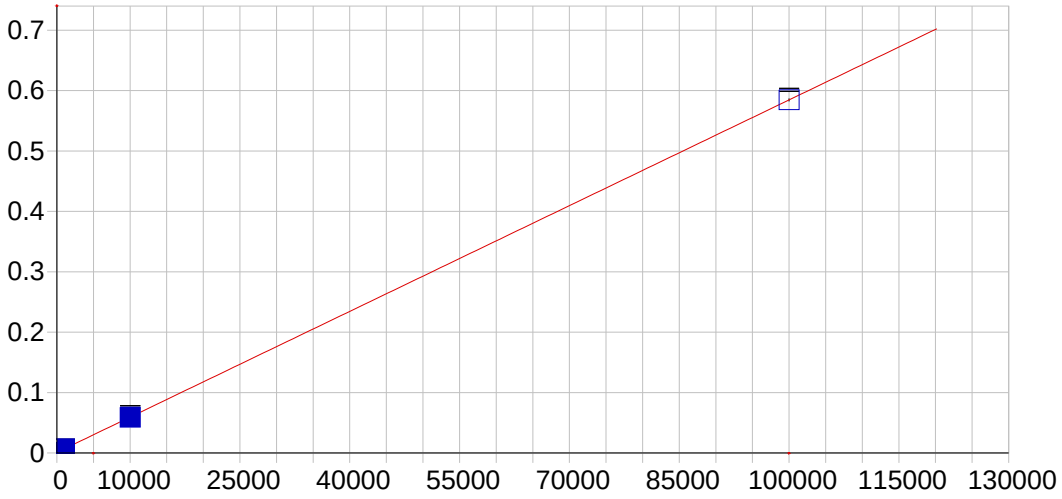


Cu 224.700 {450}

Date of Fit:	12/03/2010 13:34:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000086	Re-Slope:	1.000000
A1 (Gain):	0.000018	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999892	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	0.857844		
Predicted MQL:	2.859479		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00072	-.001	.000	.00009	.000	1
CalibStd=100	1000.0	1044.1	44.1	4.41	.01867	.000	1
CalibStd=50	50.000	49.725	-.275	-.550	.00097	.000	1
CalibStd=100	100.00	103.70	3.70	3.70	.00193	.000	1
CalibStd=5	5.0000	5.6288	.629	12.6	.00019	.000	1
CalibStd=10	10.000	9.4732	-.527	-5.27	.00025	.000	1
CalibStd=100	10000.	9952.4	-47.6	-.476	.17724	.003	1

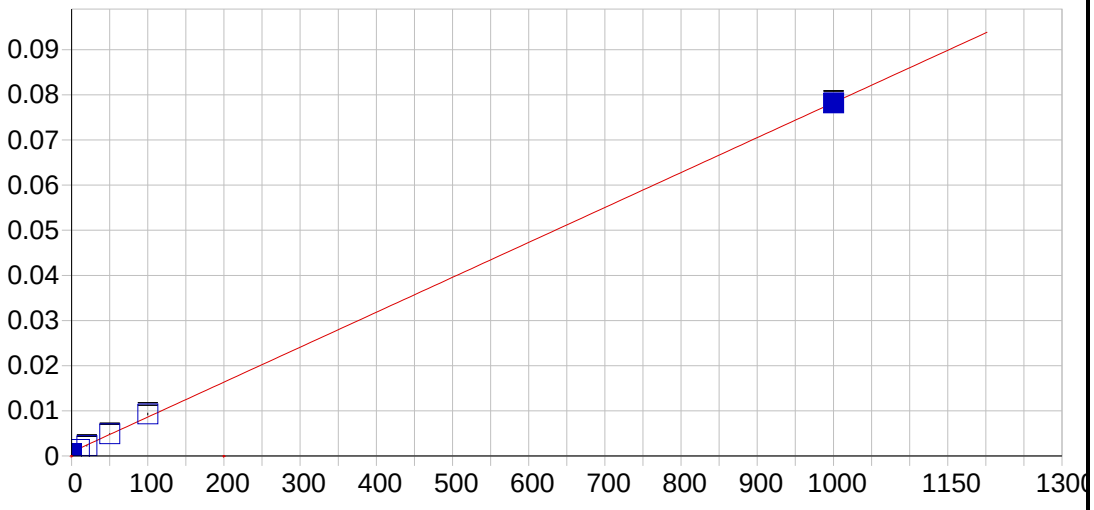


Cu 324.754 {104}

Date of Fit:	12/03/2010 13:40:52	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000943	Re-Slope:	1.000000
A1 (Gain):	0.000006	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000153		
Predicted MDL:	11.840714		
Predicted MQL:	39.469047		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	29.568	29.6	.000	.00112	.000	1
CalibStd=100	10000.	9983.0	-17.0	-.170	.05921	.002	1
CalibStd-100	100000.	100000.	1.85	.002	.58463	.002	1
CalibStd=100	1000.0	985.62	-14.4	-1.44	.00670	.000	1

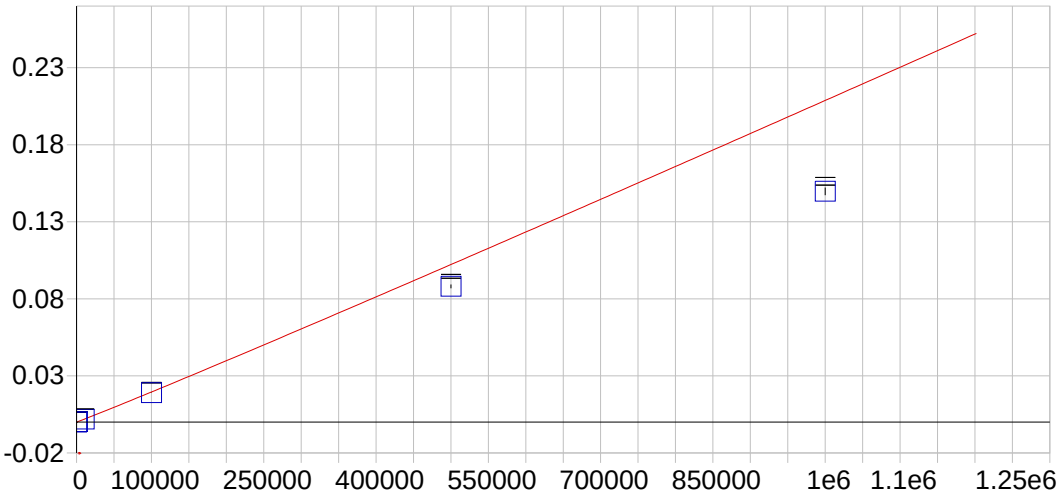


Cu 327.396 {103}

Date of Fit:	12/03/2010 13:29:13	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000881	Re-Slope:	1.000000
A1 (Gain):	0.000077	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999927	Status:	OK.
Std Error of Est:	0.000413		
Predicted MDL:	2.353007		
Predicted MQL:	7.843358		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-4.8142	-4.81	.000	.00051	.000	1
CalibStd=20	20.000	18.110	-1.89	-9.45	.00228	.000	1
CalibStd=50	50.000	52.004	2.00	4.01	.00490	.000	1
CalibStd=100	100.00	108.57	8.57	8.57	.00928	.000	1
CalibStd=10	10.000	7.0220	-2.98	-29.8	.00142	.000	1
CalibStd=100	1000.0	999.11	-.889	-.089	.07819	.000	1

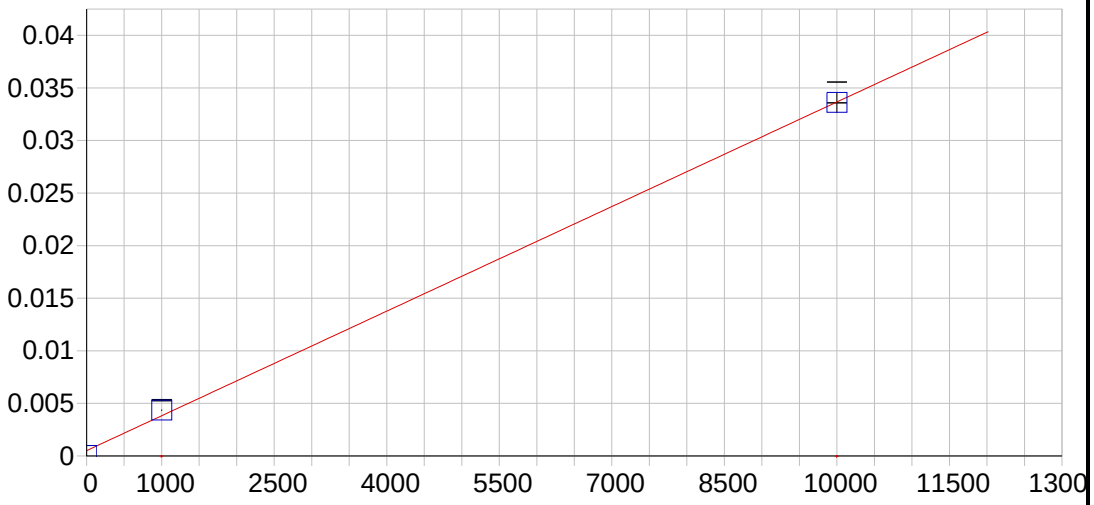


Fe 234.349 {144}

Date of Fit:	12/06/2010 14:05:25	Type of Fit:	Full Fit	Weighting:	None

A0 (Offset):	0.000059	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.030000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000084		
Predicted MDL:	321.366440		
Predicted MQL:	1071.221466		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00003	.000	1
CalibStd=100	10000.	10071.	70.7	.707	.00189	.000	1
CalibStd=500	500000.	432560.	-67400.	-13.5	.08809	.001	1
CalibStd=100	100000.	97786.	-2210.	-2.21	.01909	.000	1
CalibStd-100	1000000.	724380.	-276000.	-27.6	.14978	.002	1
CalibStd=100	1000.0	1118.9	119.	11.9	.00025	.000	1

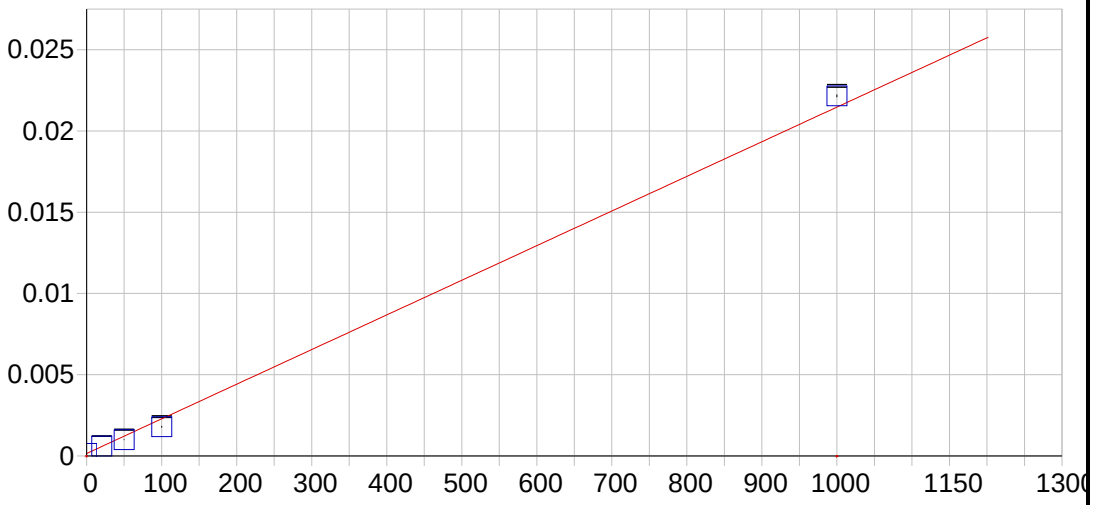


Fe 239.562 {141}

Date of Fit:	12/06/2010 13:50:57	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000509	Re-Slope:	1.000000
A1 (Gain):	0.000003	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999621	Status:	OK.
Std Error of Est:	0.000712		
Predicted MDL:	6.935094		
Predicted MQL:	23.116979		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-143.19	-143.	.000	.00003	.000	1
CalibStd=100	1000.0	1159.1	159.	15.9	.00435	.000	1
CalibStd=100	10000.	9984.1	-15.9	-.159	.03361	.001	1

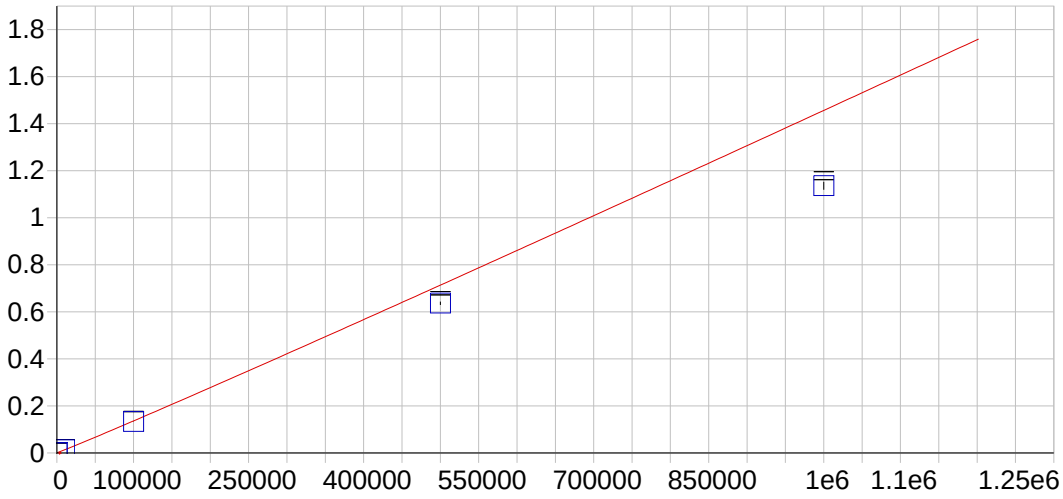


Fe 259.940 {130}

Date of Fit:	12/06/2010 14:07:05	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000152	Re-Slope:	1.000000
A1 (Gain):	0.000021	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.996417	Status:	OK.
Std Error of Est:	0.000011		
Predicted MDL:	2.352812		
Predicted MQL:	7.842707		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00723	.007	.000	.00015	.000	1
CalibStd=100	1000.0	1032.3	32.3	3.23	.02216	.000	1
CalibStd=50	50.000	39.709	-10.3	-20.6	.00100	.000	1
CalibStd=100	100.00	77.134	-22.9	-22.9	.00180	.000	1
CalibStd=20	20.000	20.811	.811	4.05	.00060	.000	1

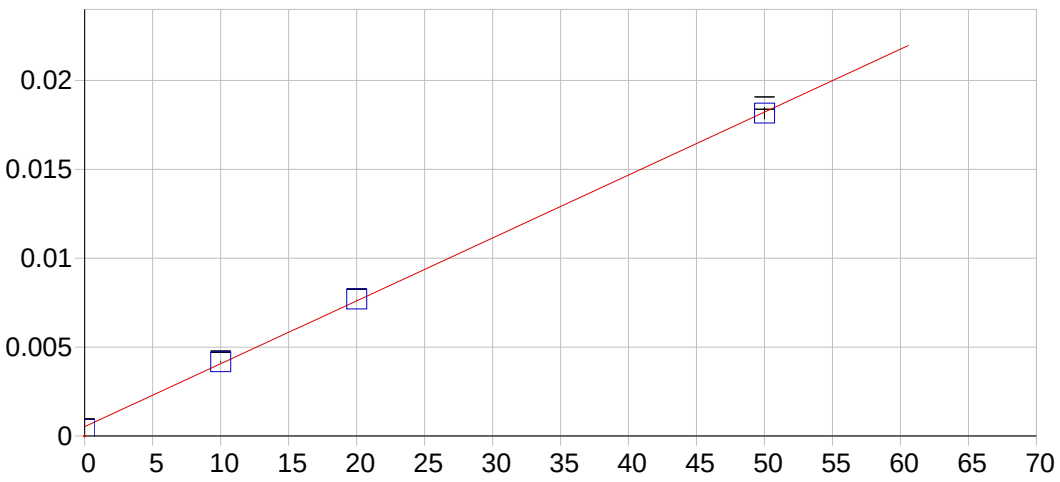


Mg 279.079 {121}

Date of Fit:	12/06/2010 13:52:40	Type of Fit:	Full Fit	Weighting:	None

A0 (Offset):	0.000386	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.030000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000256		
Predicted MDL:	61.906950		
Predicted MQL:	206.356499		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00008	.000	1
CalibStd=100	100000.	98064.	-1940.	-1.94	.13355	.001	1
CalibStd=500	500000.	447620.	-52400.	-10.5	.63655	.007	1
CalibStd=100	10000.	10078.	77.7	.777	.01317	.000	1
CalibStd-100	1000000.	785760.	-214000.	-21.4	1.1361	.017	1
CalibStd=100	1000.0	1101.0	101.	10.1	.00169	.000	1

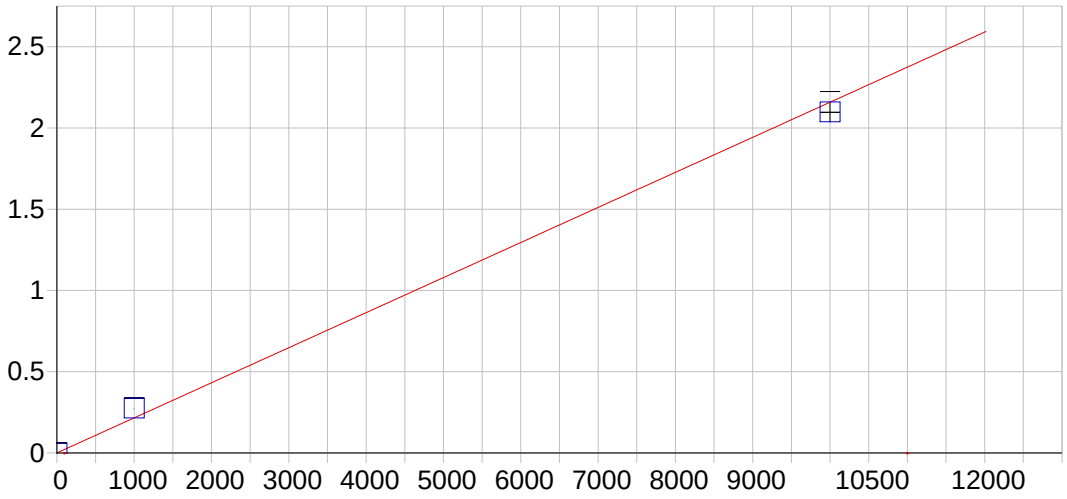


Mg 279.553 {121}

Date of Fit:	12/03/2010 13:18:45	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000521	Re-Slope:	1.000000
A1 (Gain):	0.000354	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999870	Status:	OK.
Std Error of Est:	0.000151		
Predicted MDL:	0.085664		
Predicted MQL:	0.285547		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.40959	-.410	.000	.00038	.000	1
CalibStd=50	50.000	49.831	-.169	-.337	.01816	.000	1
CalibStd=20	20.000	20.265	.265	1.32	.00769	.000	1
CalibStd=10	10.000	10.314	.314	3.14	.00417	.000	1

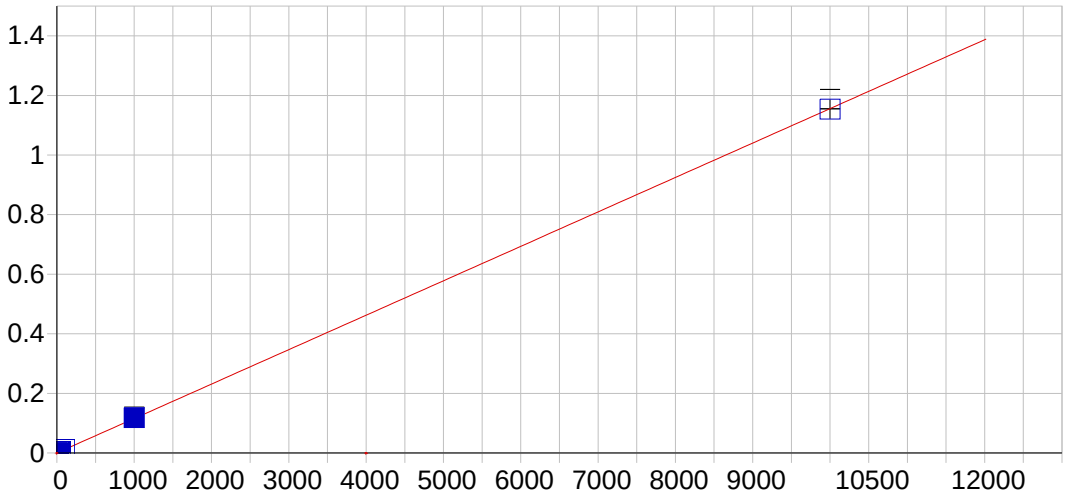


Mg 280.270 {120}

Date of Fit:	12/06/2010 13:53:25	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000271	Re-Slope:	1.000000
A1 (Gain):	0.000216	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.996154	Status:	OK.
Std Error of Est:	0.003446		
Predicted MDL:	0.184356		
Predicted MQL:	0.614520		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.25021	-.250	.000	.00022	.000	1
CalibStd=100	1000.0	1278.0	278.	27.8	.27606	.001	1
CalibStd=100	10000.	9722.0	-278.	-2.78	2.0983	.064	1

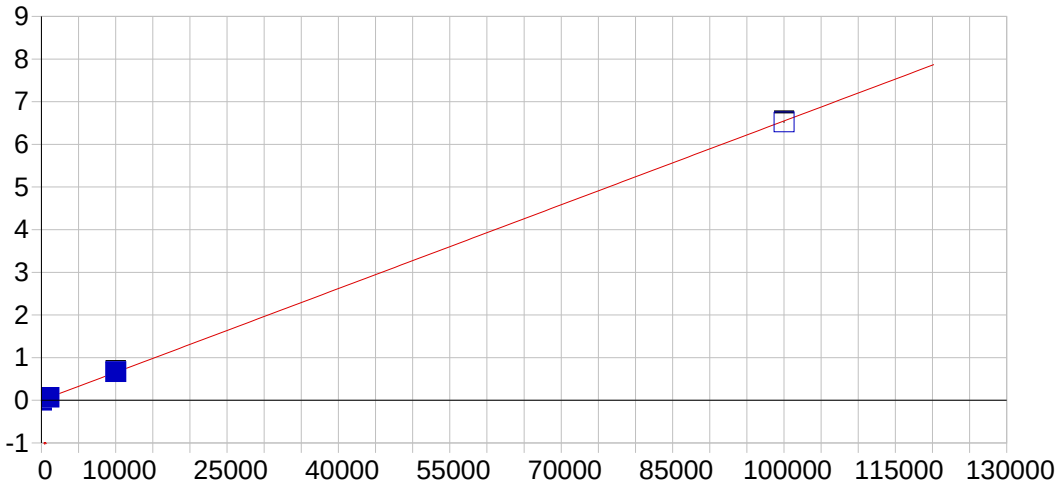


Mn 257.610 {131}

Date of Fit:	12/03/2010 13:34:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000031	Re-Slope:	1.000000
A1 (Gain):	0.000116	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999967	Status:	OK.
Std Error of Est:	0.000004		
Predicted MDL:	0.544024		
Predicted MQL:	1.813415		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00001	.000	.000	.00003	.000	1
CalibStd=10	10.000	9.8111	-.189	-1.89	.00116	.000	1
CalibStd=50	50.000	48.085	-1.91	-3.83	.00559	.000	1
CalibStd=20	20.000	19.084	-.916	-4.58	.00224	.000	1
CalibStd=100	100.00	98.994	-1.01	-1.01	.01147	.000	1
CalibStd=5	5.0000	5.3295	.329	6.59	.00065	.000	1
CalibStd=1	1.0000	1.0194	.019	1.94	.00015	.000	1
CalibStd=100	1000.0	1023.2	23.2	2.32	.11830	.001	1
CalibStd=100	10000.	9980.5	-19.5	-.195	1.1536	.032	1

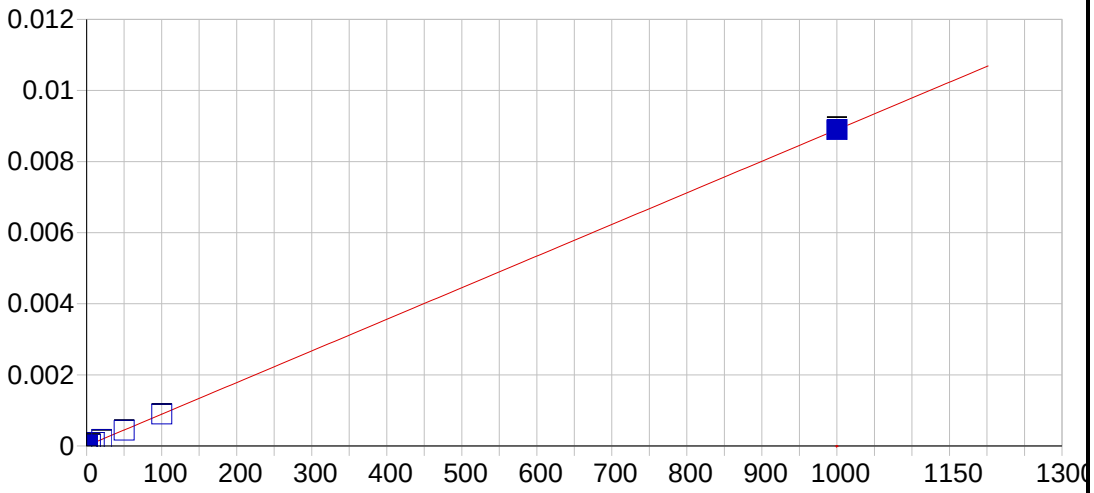


Mn 259.373 {130}

Date of Fit:	12/03/2010 13:40:52	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000007	Re-Slope:	1.000000
A1 (Gain):	0.000065	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999918	Status:	OK.
Std Error of Est:	0.000395		
Predicted MDL:	0.789048		
Predicted MQL:	2.630161		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.12678	-.127	.000	-.00002	.000	1
CalibStd=100	10000.	10239.	239.	2.39	.67386	.016	1
CalibStd-100	100000.	99653.	-347.	-.347	6.5253	.019	1
CalibStd=100	1000.0	1106.3	106.	10.6	.07278	.000	1

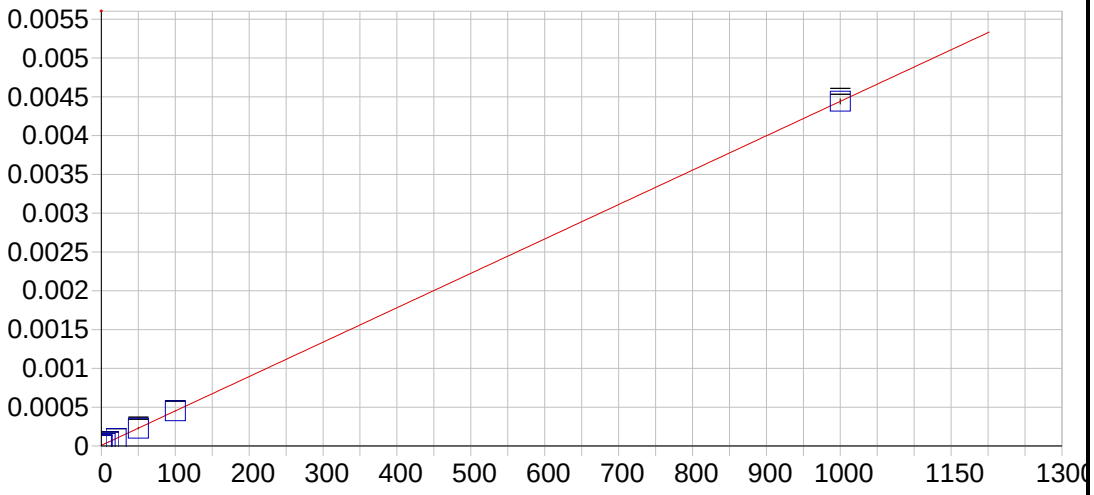


Mo 202.030 {467}

Date of Fit:	12/03/2010 13:29:14	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000004	Re-Slope:	1.000000
A1 (Gain):	0.000009	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999999	Status:	OK.
Std Error of Est:	0.000005		
Predicted MDL:	0.896640		
Predicted MQL:	2.988798		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.55090	.551	.000	.00001	.000	1
CalibStd=50	50.000	49.378	-.622	-1.24	.00044	.000	1
CalibStd=1	1.0000	.71540	-.285	-28.5	.00001	.000	1
CalibStd=20	20.000	19.133	-.867	-4.34	.00017	.000	1
CalibStd=10	10.000	10.449	.449	4.49	.00010	.000	1
CalibStd=100	100.00	100.49	.491	.491	.00090	.000	1
CalibStd=5	5.0000	5.2884	.288	5.77	.00005	.000	1
CalibStd=100	1000.0	999.99	-.006	-.001	.00890	.000	1

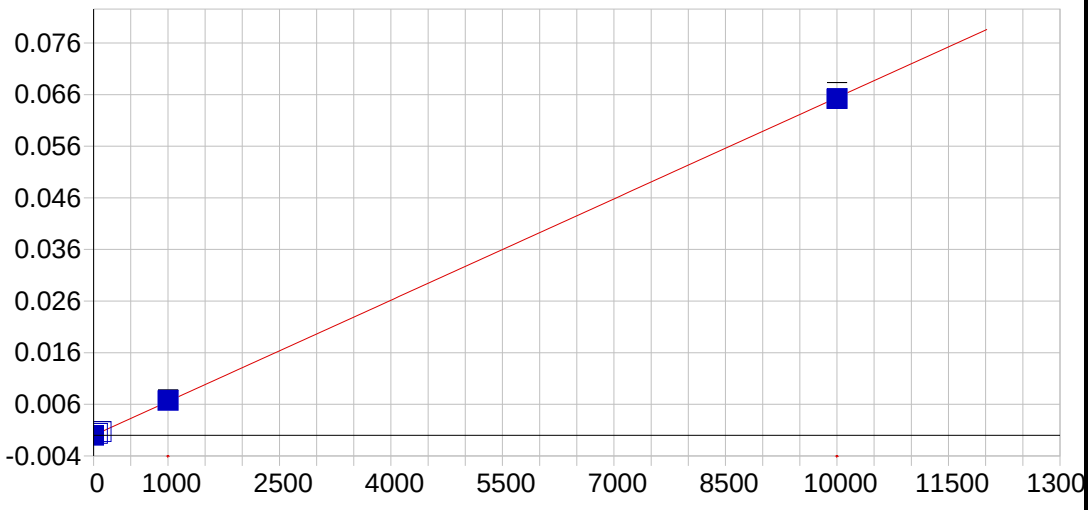


Mo 203.844 {465}

Date of Fit:	12/03/2010 13:29:14	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000008	Re-Slope:	1.000000
A1 (Gain):	0.000004	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	1.850950		
Predicted MQL:	6.169835		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.55285	.553	.000	.00001	.000	1
CalibStd=50	50.000	49.535	-.465	-.931	.00023	.000	1
CalibStd=1	1.0000	.92829	-.072	-7.17	.00001	.000	1
CalibStd=20	20.000	19.638	-.362	-1.81	.00009	.000	1
CalibStd=10	10.000	10.030	.030	.297	.00005	.000	1
CalibStd=100	100.00	100.10	.097	.097	.00045	.000	1
CalibStd=5	5.0000	5.2000	.200	4.00	.00003	.000	1
CalibStd=100	1000.0	1000.0	.020	.002	.00444	.000	1

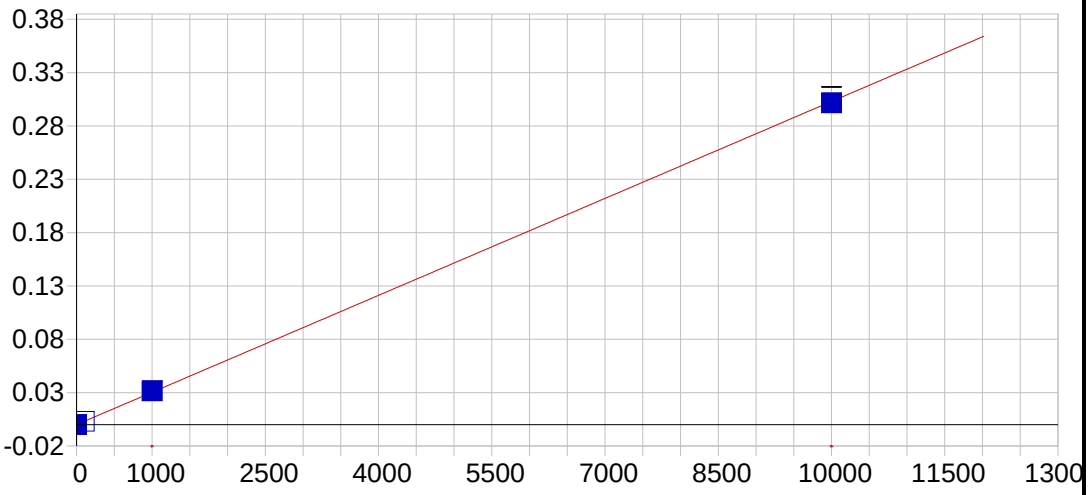


Mo 204.598 {465}

Date of Fit:	12/03/2010 13:34:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000003	Re-Slope:	1.000000
A1 (Gain):	0.000007	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999949	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	1.394092		
Predicted MQL:	4.646972		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00344	-.003	.000	.00000	.000	1
CalibStd=100	1000.0	1030.7	30.7	3.07	.00675	.000	1
CalibStd=100	10000.	9965.8	-34.2	-.342	.06520	.001	1
CalibStd=50	50.000	50.686	.686	1.37	.00033	.000	1
CalibStd=100	100.00	102.78	2.78	2.78	.00068	.000	1

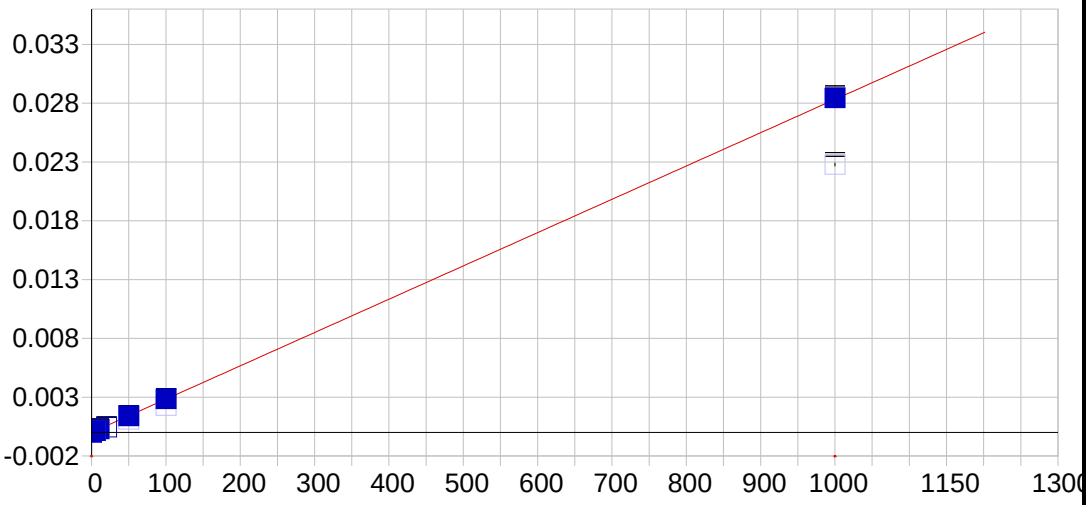


Ni 221.647 {452}

Date of Fit:	12/03/2010 13:34:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000004	Re-Slope:	1.000000
A1 (Gain):	0.000030	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999895	Status:	OK.
Std Error of Est:	0.000021		
Predicted MDL:	0.537311		
Predicted MQL:	1.791036		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00620	-.006	.000	.00000	.000	1
CalibStd=100	10000.	9952.6	-47.4	-.474	.30154	.006	1
CalibStd=100	100.00	102.14	2.14	2.14	.00310	.000	1
CalibStd=100	1000.0	1045.3	45.3	4.53	.03167	.000	1

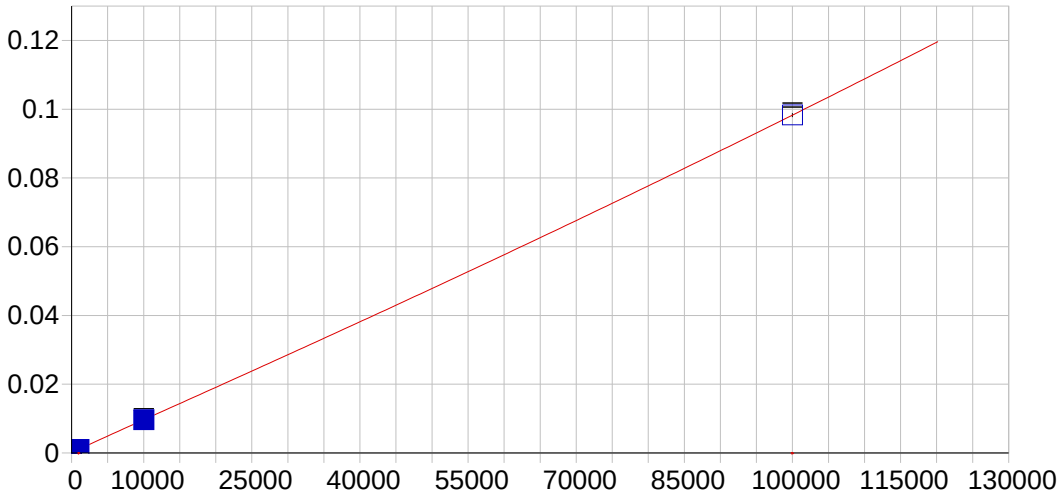


Ni 231.604 {445}

Date of Fit:	12/06/2010 14:31:10	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000002	Re-Slope:	1.000000
A1 (Gain):	0.000028	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999336	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	0.494329		
Predicted MQL:	1.647764		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00052	.001	.000	.00000	.000	1
CalibStd=50	50.000	49.477	-.523	-1.05	.00112	.000	1
CalibStd=20	20.000	15.669	-4.33	-21.7	.00044	.000	1
CalibStd=10	10.000	10.156	.156	1.56	.00023	.000	1
CalibStd=100	100.00	100.74	.737	.737	.00229	.000	1
CalibStd=5	5.0000	5.4735	.473	9.47	.00013	.000	1
CalibStd=100	1000.0	1004.6	4.57	.457	.02279	.000	1

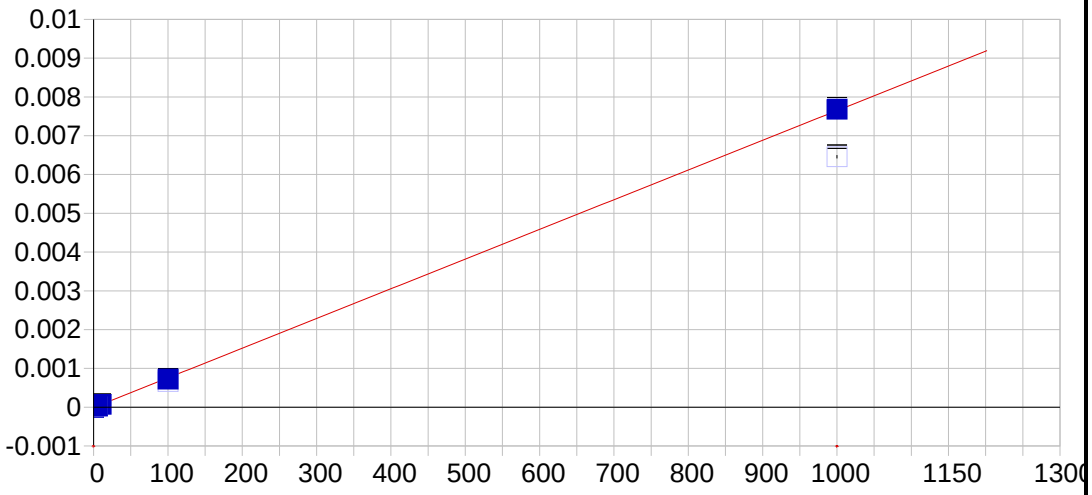


Pb 216.999 {455}

Date of Fit:	12/03/2010 13:40:52	Type of Fit:	Full Fit	Weighting:	None

A0 (Offset):	0.000013	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	0.970000		
Correlation:	1.000000	Status:	Warning Positive Curvature
Std Error of Est:	0.000000		
Predicted MDL:	10.791424		
Predicted MQL:	35.971414		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00001	.000	1
CalibStd=100	1000.0	1000.3	.316	.032	.00104	.000	1
CalibStd=100	10000.	10000.0	-.039	.000	.00967	.000	1
CalibStd-100	100000.	100000.	.000	.000	.09829	.001	1

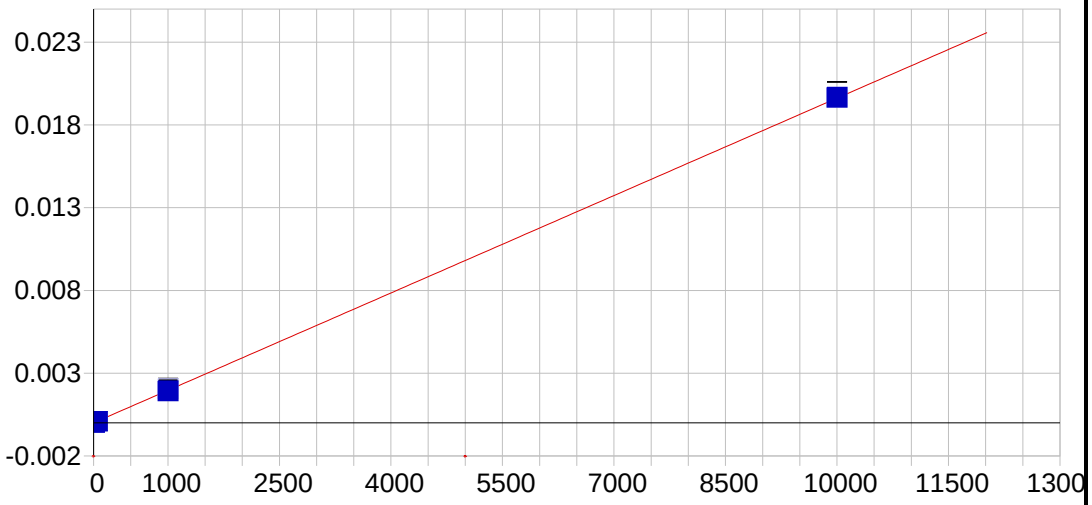


Pb 220.353 {453}

Date of Fit:	12/03/2010 13:29:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000010	Re-Slope:	1.000000
A1 (Gain):	0.000008	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999804	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	2.072715		
Predicted MQL:	6.909051		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00005	.000	.000	-.00001	.000	1
CalibStd=10	10.000	10.875	.875	8.75	.00007	.000	1
CalibStd=100	100.00	95.485	-4.51	-4.51	.00066	.000	1
CalibStd=5	5.0000	4.7139	-.286	-5.72	.00002	.000	1
CalibStd=100	1000.0	1004.3	4.30	.430	.00646	.000	1

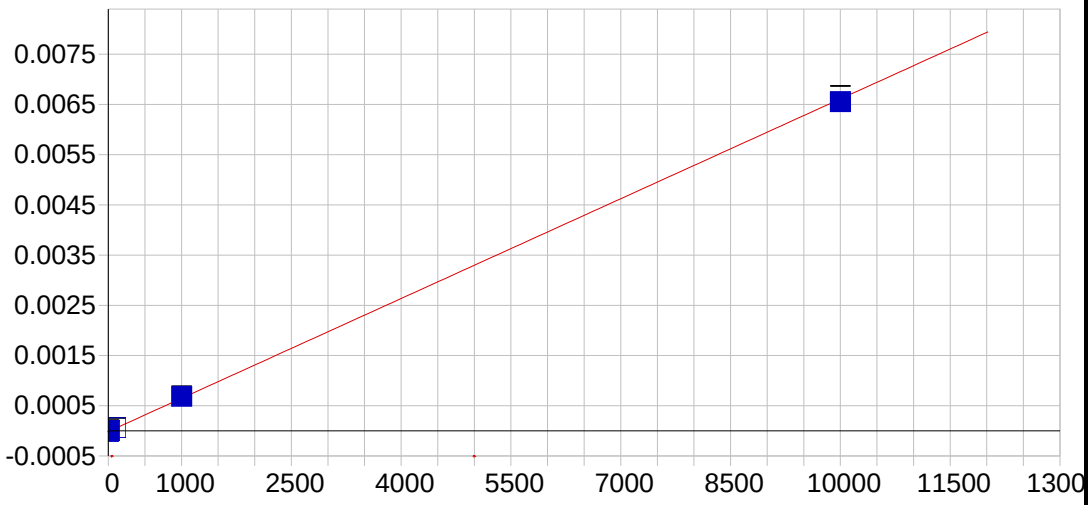


Sb 206.833 {463}

Date of Fit:	12/03/2010 13:34:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000002	Re-Slope:	1.000000
A1 (Gain):	0.000002	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999963	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	5.027101		
Predicted MQL:	16.757005		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00204	.002	.000	.00000	.000	1
CalibStd=100	1000.0	978.77	-21.2	-2.12	.00206	.000	1
CalibStd=10	10.000	8.2085	-1.79	-17.9	.00002	.000	1
CalibStd=50	50.000	49.695	-.305	-.610	.00011	.000	1
CalibStd=100	10000.	10025.	24.9	.249	.01967	.000	1

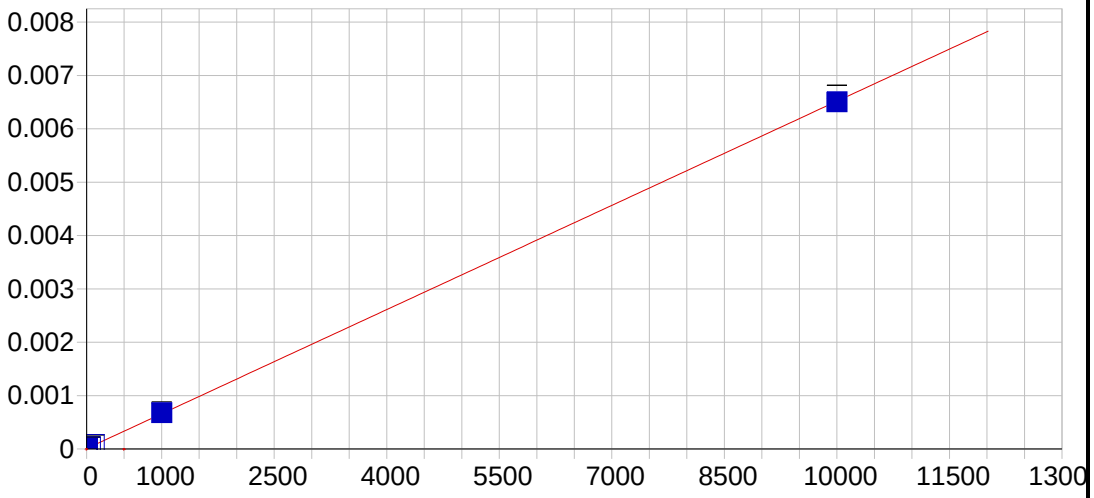


Sb 217.581 {455}

Date of Fit:	12/03/2010 13:34:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000014	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998781	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	22.755935		
Predicted MQL:	75.853116		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.01880	-.019	.000	-.00001	.000	1
CalibStd=100	1000.0	1054.0	54.0	5.40	.00068	.000	1
CalibStd=20	20.000	25.772	5.77	28.9	.00000	.000	1
CalibStd=10	10.000	24.297	14.3	143.	.00000	.000	1
CalibStd=100	100.00	111.59	11.6	11.6	.00006	.000	1
CalibStd=100	10000.	9914.3	-85.7	-.857	.00655	.000	1

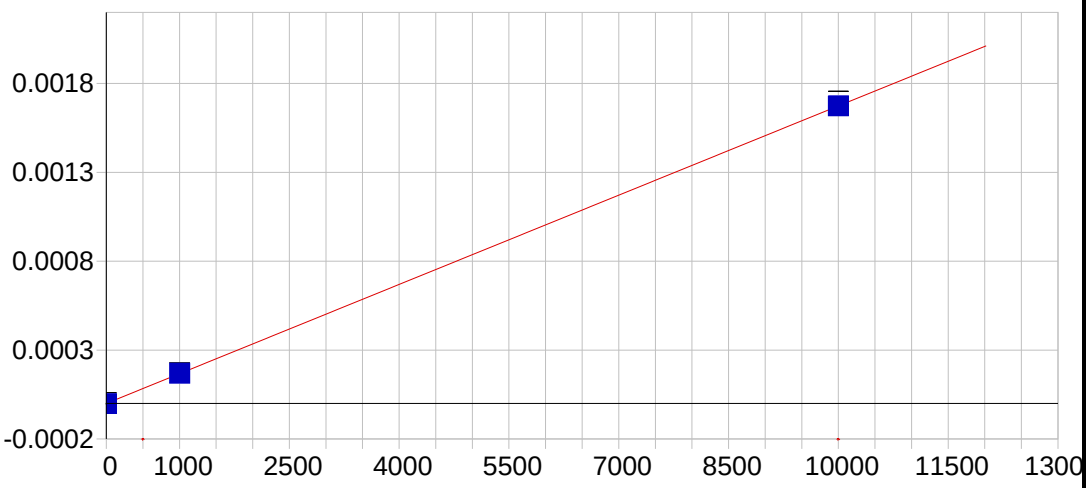


Se 196.090 {472}

Date of Fit:	12/03/2010 13:34:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000008	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999175	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	10.989014		
Predicted MQL:	36.630047		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.01247	.012	.000	.00001	.000	1
CalibStd=50	50.000	40.808	-9.19	-18.4	.00003	.000	1
CalibStd=100	1000.0	1030.4	30.4	3.04	.00068	.000	1
CalibStd=10	10.000	-2.0373	-12.0	-120.	.00001	.000	1
CalibStd=100	100.00	111.22	11.2	11.2	.00008	.000	1
CalibStd=100	10000.	9979.6	-20.4	-.204	.00650	.000	1

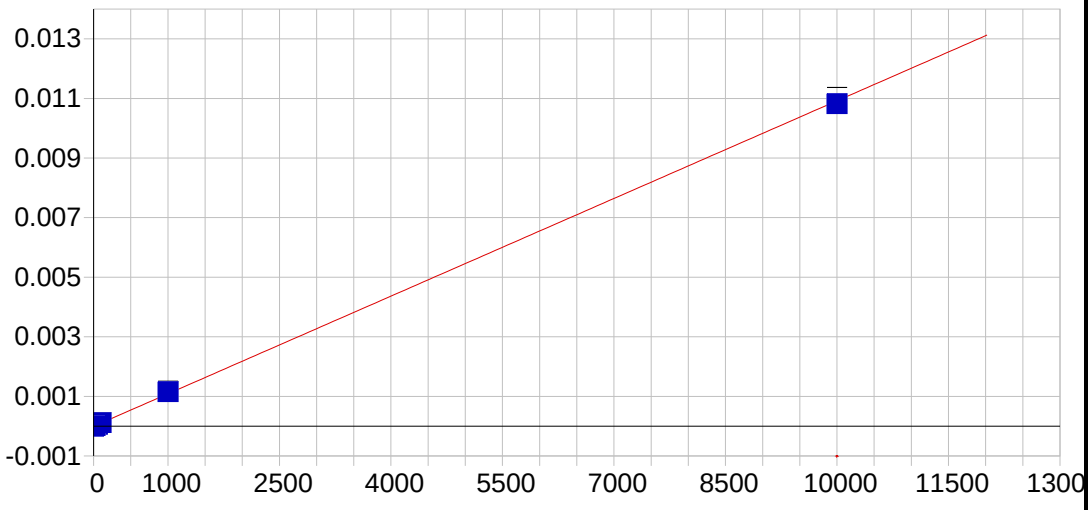


Se 206.279 {463}

Date of Fit:	12/03/2010 13:34:59	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999998	Status:	OK.
Std Error of Est:	0.000003		
Predicted MDL:	54.697681		
Predicted MQL:	182.325602		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-10.459	-10.5	.000	.00000	.000	1
CalibStd=100	1000.0	1011.6	11.6	1.16	.00017	.000	1
CalibStd=100	10000.	9998.8	-1.16	-.012	.00167	.000	1

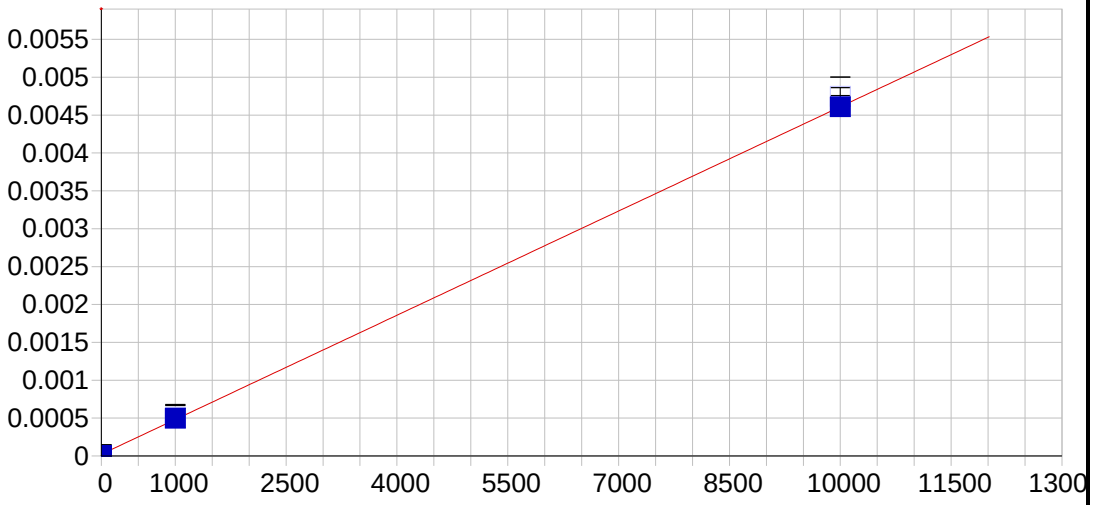


Tl 190.856 {477}

Date of Fit:	12/03/2010 13:34:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000006	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999550	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	7.817368		
Predicted MQL:	26.057894		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00987	-.010	.000	-.00001	.000	1
CalibStd=50	50.000	58.052	8.05	16.1	.00006	.000	1
CalibStd=100	1000.0	1063.8	63.8	6.38	.00116	.000	1
CalibStd=20	20.000	24.201	4.20	21.0	.00002	.000	1
CalibStd=100	100.00	108.79	8.79	8.79	.00011	.000	1
CalibStd=10	10.000	14.731	4.73	47.3	.00001	.000	1
CalibStd=100	10000.	9910.5	-89.5	-.895	.01082	.000	1

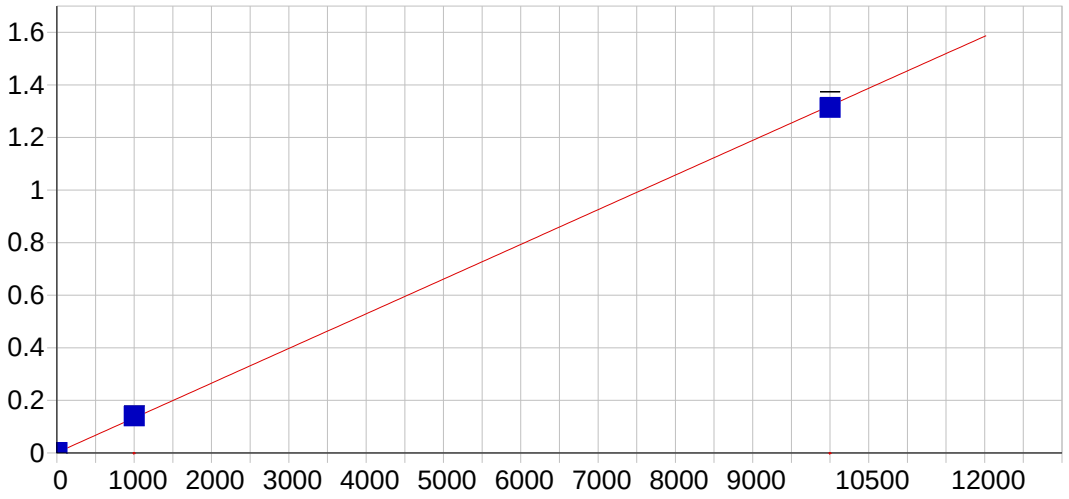


Tl 276.787 {122}

Date of Fit:	12/03/2010 13:34:59	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000022	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999986	Status:	OK.
Std Error of Est:	0.000019		
Predicted MDL:	137.066887		
Predicted MQL:	456.889623		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-28.148	-28.1	.000	.00001	.000	1
CalibStd=100	1000.0	1031.3	31.3	3.13	.00051	.000	1
CalibStd=100	10000.	9996.9	-3.13	-.031	.00475	.000	1

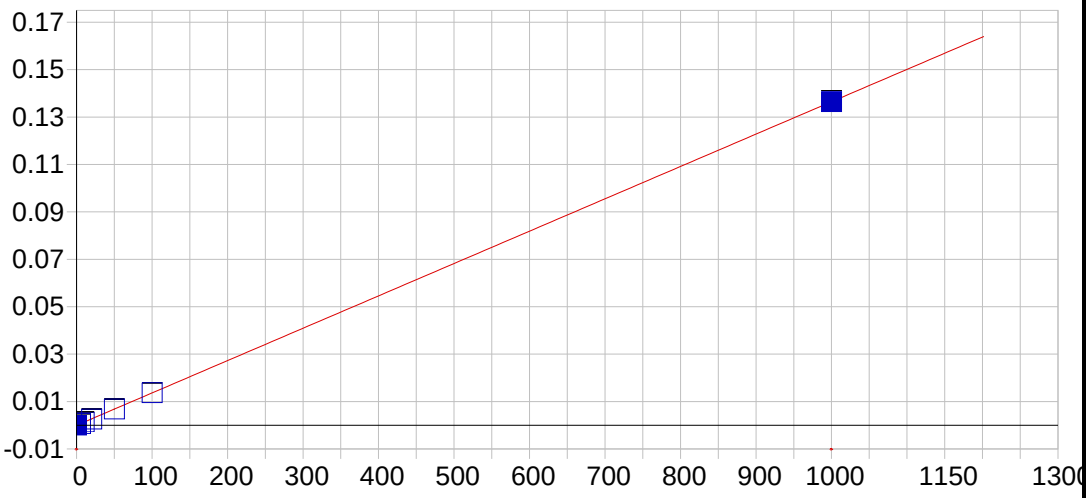


V 290.882 {116}

Date of Fit:	12/03/2010 13:34:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001479	Re-Slope:	1.000000
A1 (Gain):	0.000132	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999857	Status:	OK.
Std Error of Est:	0.000406		
Predicted MDL:	0.817399		
Predicted MQL:	2.724663		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.04817	-.048	.000	.00147	.000	1
CalibStd=100	1000.0	1053.5	53.5	5.35	.14052	.001	1
CalibStd=100	10000.	9946.5	-53.5	-.535	1.3142	.022	1

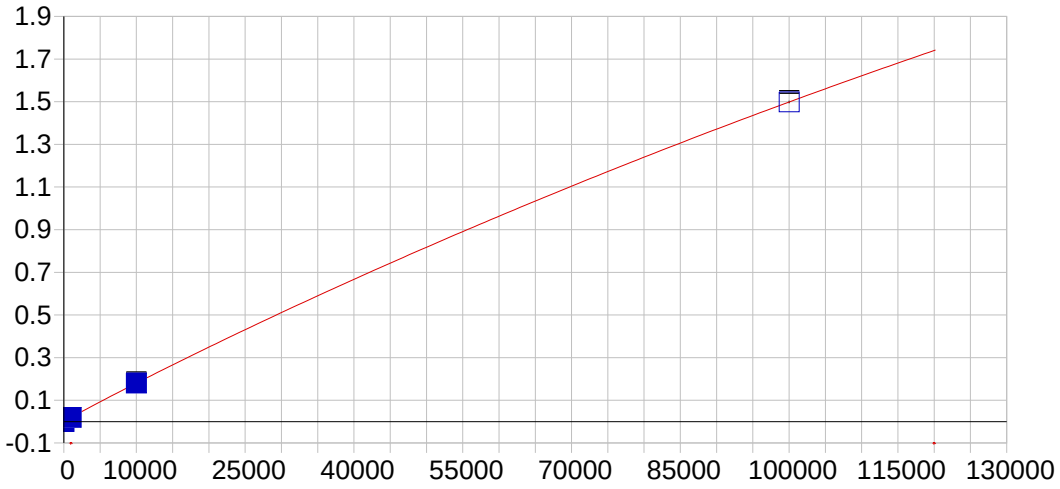


V 292.402 {115}

Date of Fit:	12/03/2010 13:29:14	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-0.000027	Re-Slope:	1.000000
A1 (Gain):	0.000136	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999999	Status:	OK.
Std Error of Est:	0.000070		
Predicted MDL:	0.883468		
Predicted MQL:	2.944893		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.40341	.403	.000	.00003	.000	1
CalibStd=50	50.000	49.948	-.052	-.104	.00679	.000	1
CalibStd=100	1000.0	999.99	-.007	-.001	.13647	.000	1
CalibStd=20	20.000	18.993	-1.01	-5.03	.00257	.000	1
CalibStd=5	5.0000	5.1509	.151	3.02	.00068	.000	1
CalibStd=10	10.000	10.246	.246	2.46	.00137	.000	1
CalibStd=100	100.00	100.27	.266	.266	.01366	.000	1

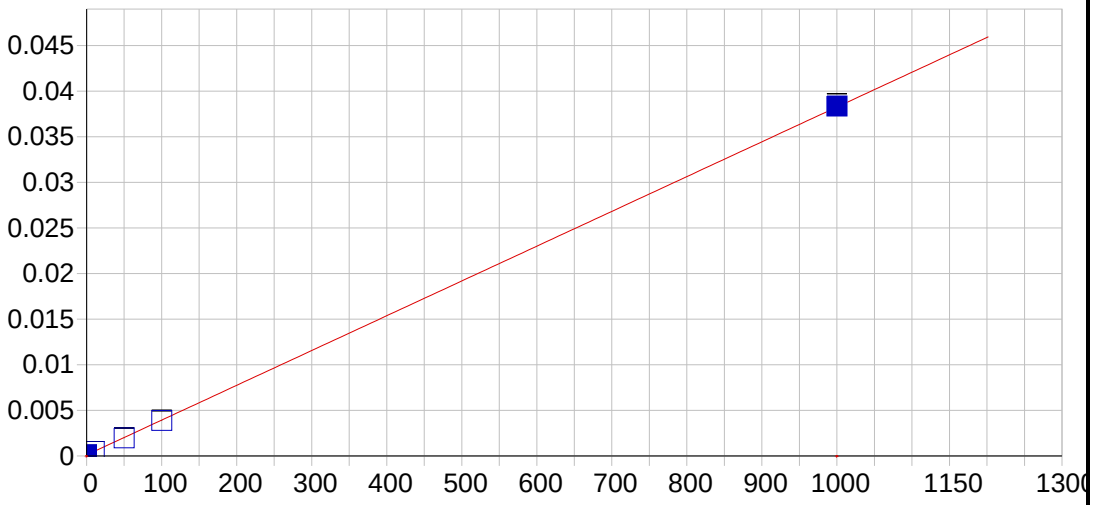


Zn 206.200 {463}

Date of Fit:	12/03/2010 13:40:52	Type of Fit:	Full Fit	Weighting:	None

A0 (Offset):	-0.000032	Re-Slope:	1.000000
A1 (Gain):	0.000024	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	0.970000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.343458		
Predicted MQL:	1.144860		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
CalibStd=100	10000.	10001.	.671	.007	.18072	.004	1
CalibStd-100	100000.	100000.	-.010	.000	1.4986	.006	1
Blank	.00000	3.7175	3.72	.000	.00005	.000	1
CalibStd=100	1000.0	994.85	-5.15	-.515	.01947	.000	1

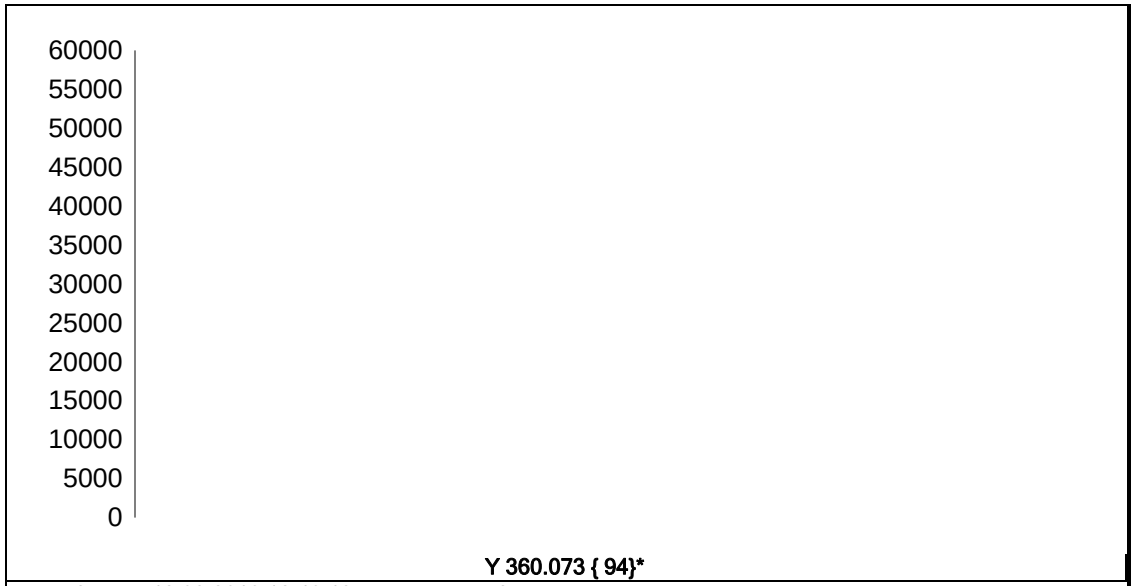


Zn 213.856 {458}

Date of Fit:	12/03/2010 13:29:14	Type of Fit:	Linear	Weighting:	1/Conc

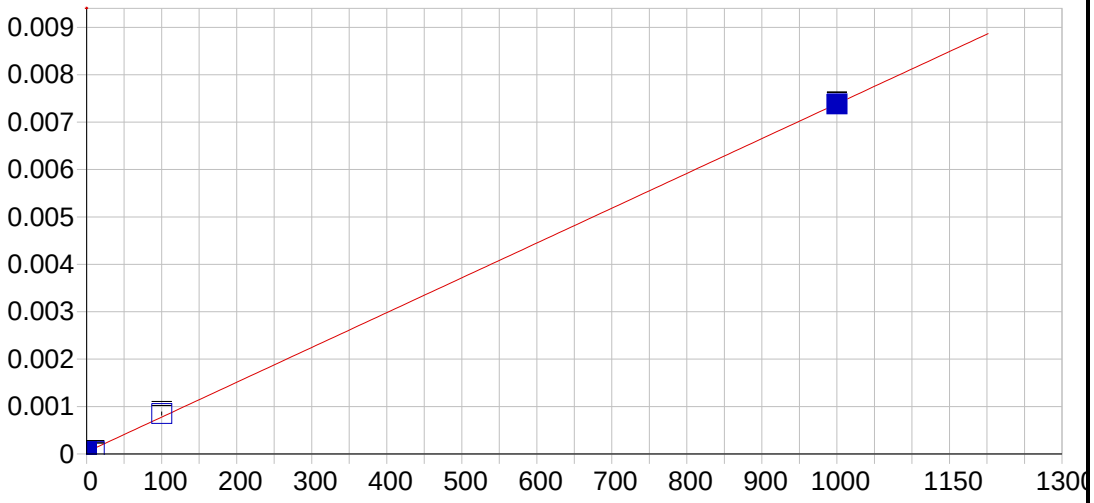
A0 (Offset):	0.000116	Re-Slope:	1.000000
A1 (Gain):	0.000038	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999957	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	0.248361		
Predicted MQL:	0.827870		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00002	.000	.000	.00012	.000	1
CalibStd=100	100.00	98.625	-1.38	-1.38	.00388	.000	1
CalibStd=50	50.000	48.375	-1.63	-3.25	.00196	.000	1
CalibStd=10	10.000	10.458	.458	4.58	.00052	.000	1
CalibStd=100	1000.0	1002.5	2.54	.254	.03836	.000	1



Date of Fit:	12/03/2010 12:40:18	Type of Fit:	Linear	Weighting:	None	
A0 (Offset):	0.000000		Re-Slope:	1.000000		
A1 (Gain):	0.000000		Y-int:	0.000000		
A2 (Curvature):	0.000000					
n (Exponent):	1.000000					
Correlation:	0.000000		Status:	Warning	Zero Gain	
Std Error of Est:	0.000000					
Predicted MDL:	n/a					
Predicted MQL:	n/a					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	51016.	498.	1

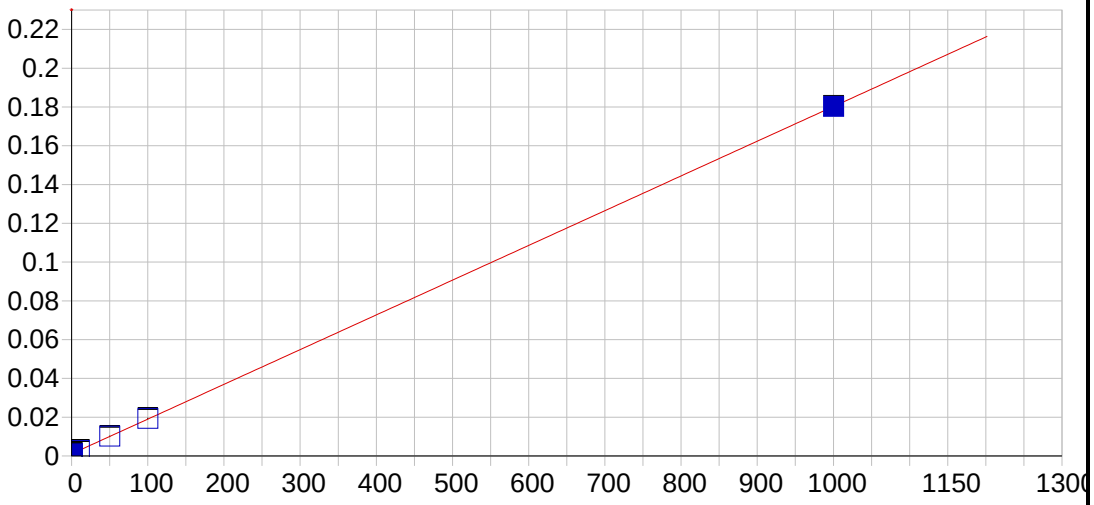


B 249.773 {135}

Date of Fit:	12/03/2010 13:29:14	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000043	Re-Slope:	1.000000
A1 (Gain):	0.000007	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999864	Status:	OK.
Std Error of Est:	0.000072		
Predicted MDL:	6.303696		
Predicted MQL:	21.012320		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.10078	.101	.000	.00004	.000	1
CalibStd=10	10.000	.66264	-9.34	-93.4	.00005	.000	1
CalibStd=100	100.00	110.16	10.2	10.2	.00085	.000	1
CalibStd=100	1000.0	999.08	-.922	-.092	.00738	.000	1

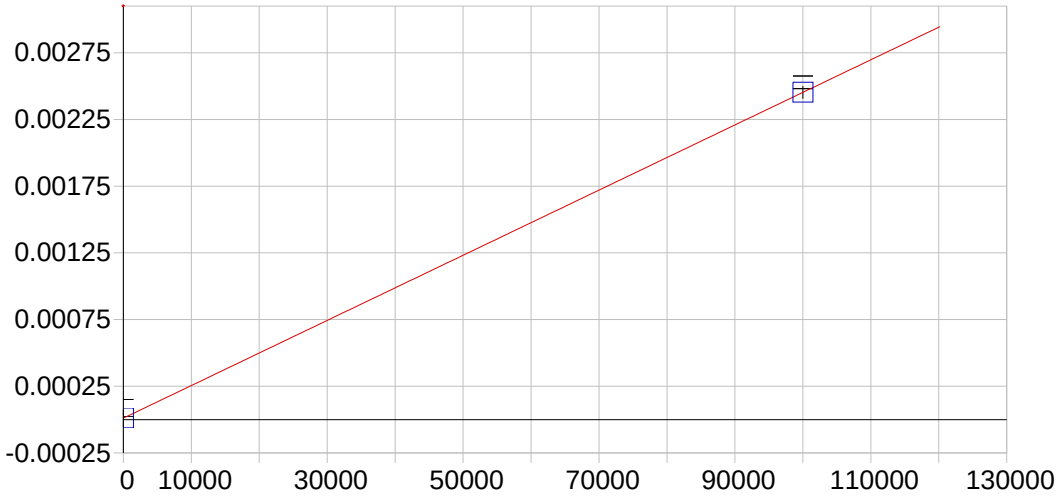


Li 670.784 { 50}

Date of Fit:	12/03/2010 13:29:14	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.001090	Re-Slope:	1.000000
A1 (Gain):	0.000179	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999995	Status:	OK.
Std Error of Est:	0.000244		
Predicted MDL:	2.062434		
Predicted MQL:	6.874779		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-1.9164	-1.92	.000	.00075	.000	1
CalibStd=10	10.000	9.4167	-.583	-5.83	.00278	.001	1
CalibStd=50	50.000	50.348	.348	.696	.01011	.000	1
CalibStd=100	100.00	101.68	1.68	1.68	.01931	.000	1
CalibStd=100	1000.0	999.82	-.180	-.018	.18023	.000	1
CalibStd=1	1.0000	1.6523	.652	65.2	.00139	.000	1

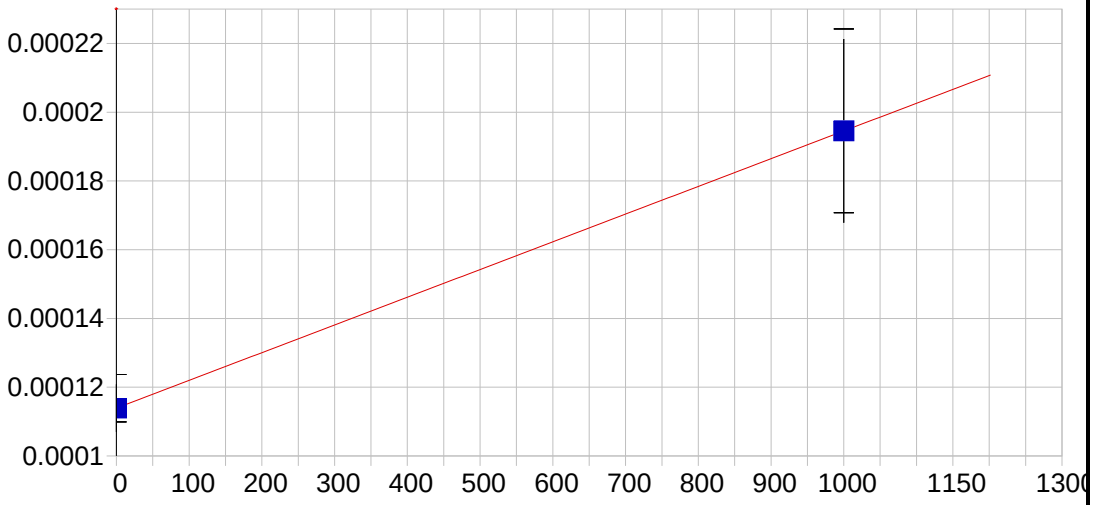


Na 330.298 {102}

Date of Fit:	12/03/2010 13:46:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000011	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	3383.868119		
Predicted MQL:	11279.56039		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00001	.000	1
CalibStd=100	100000.	100000.	.000	.000	.00245	.000	1

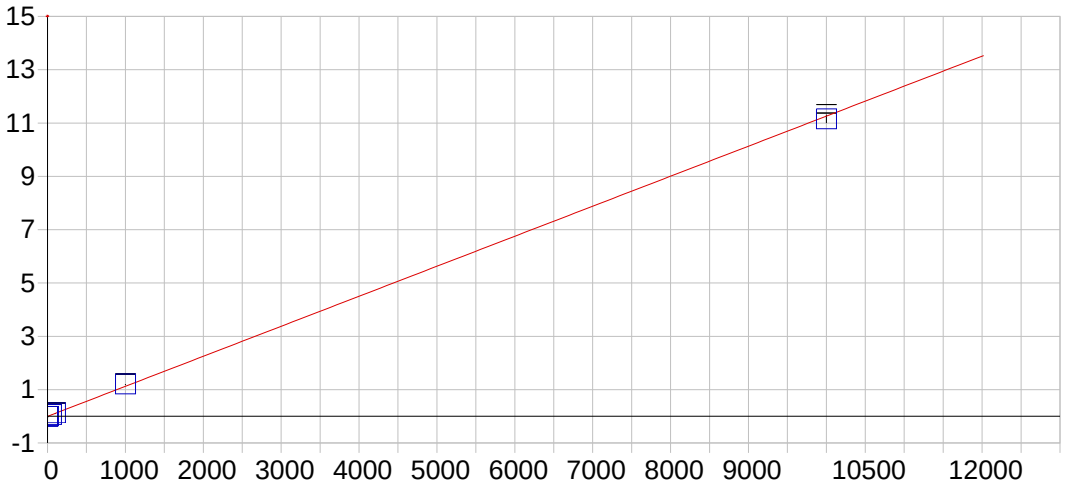


Si 251.611 {134}

Date of Fit:	12/03/2010 13:29:14	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000114	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	575.029642		
Predicted MQL:	1916.765472		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00011	.000	1
CalibStd=100	1000.0	1000.0	.000	.000	.00019	.000	1

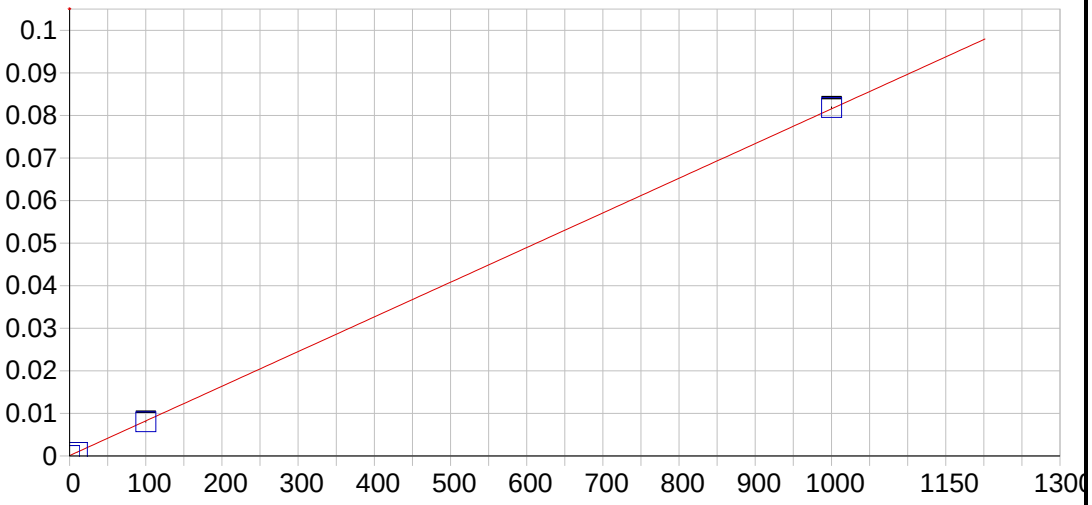


Sr 407.771 { 83}

Date of Fit:	12/03/2010 13:34:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001611	Re-Slope:	1.000000
A1 (Gain):	0.001126	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999644	Status:	OK.
Std Error of Est:	0.000116		
Predicted MDL:	0.121208		
Predicted MQL:	0.404025		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00032	.000	.000	-.00161	.000	1
CalibStd=1	1.0000	.98460	-.015	-1.54	-.00050	.000	1
CalibStd=5	5.0000	5.1951	.195	3.90	.00424	.000	1
CalibStd=10	10.000	10.443	.443	4.43	.01015	.000	1
CalibStd=50	50.000	54.128	4.13	8.26	.05933	.001	1
CalibStd=100	100.00	110.50	10.5	10.5	.12280	.001	1
CalibStd=100	1000.0	1075.3	75.3	7.53	1.2091	.002	1
CalibStd=100	10000.	9909.5	-90.5	-.905	11.156	.157	1



Ti 334.941 {101}

Date of Fit:	12/03/2010 13:29:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000091	Re-Slope:	1.000000
A1 (Gain):	0.000081	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999912	Status:	OK.
Std Error of Est:	0.000005		
Predicted MDL:	1.050606		
Predicted MQL:	3.502021		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00125	.001	.000	.00009	.000	1
CalibStd=10	10.000	8.9889	-1.01	-10.1	.00082	.000	1
CalibStd=100	100.00	97.206	-2.79	-2.79	.00801	.000	1
CalibStd=100	1000.0	1003.8	3.80	.380	.08185	.000	1

Sample Name: Blank Acquired: 12/03/2010 12:34:51 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	Al3092	Al3961	As1890	Ba4554	Ba4934	Be2348	Be3130	Ca3179	Ca3933	Ca3968
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.001**	**.000**	**.000**	**.000**	**.033**	**.000**	**.000**	**.004**	**.012**	**.004**
Stddev	.000	.000	.000	.000	.000	.00	.000	.00	.000	.000	.000	.000
%RSD	3.11	9.41	2.79	34.6	378.	35.8	1.23	140.	169.	1.86	4.04	10.2

Elem	Cd2265	Cd2288	Co2286	Co2388	Cr2677	Cr2835	Cu2247	Fe2343	Fe2395	Fe2599	Mg2790	Mg2795
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**
Stddev	.000	.000	.00	.000	.00	.000	.000	.00	.000	.000	.000	.000
%RSD	16.0	122.	82.4	185.	227.	63.6	6.51	21.9	26.0	8.08	23.4	4.58

Elem	Mg2802	Mn2576	Mn2593	Mo2020	Mo2045	Ni2216	Ni2316	Pb2169	Pb2203	Sb2068	Sb2175	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**
Stddev	.000	.000	.00	.000	.000	.000	.00	.000	.00	.000	.00	.000
%RSD	3.06	91.2	122.	28.2	564.	161.	889.	74.0	73.4	181.	102.	47.2

Elem	Se2062	Tl1908	V_2908	V_2924	Zn2062	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.001**	**.000**	**.000**	**.000**
Stddev	.00	.00	.000	.000	.000	.000
%RSD	239.	35.4	5.04	24.0	8.49	9.35

Sample Name: Blank Acquired: 12/03/2010 12:34:51 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Units	Cts/S
Avg	**51016.**
Stddev	498.
%RSD	.97521

Sample Name: CalibStd=0.25 Acquired: 12/03/2010 12:40:21 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Be3130	Cd2265
Units	Cts/S	Cts/S
Avg	**.000**	**.000**
Stddev	.000	.000
%RSD	42.4	16.9

Int. Std.	Y_3600
Units	Cts/S
Avg	**49657.**
Stddev	355.
%RSD	.71391

Sample Name: CalibStd=0.5 Acquired: 12/03/2010 12:45:50 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Be3130	Cd2265
Units	Cts/S	Cts/S
Avg	**.001**	**.000**
Stddev	.000	.000
%RSD	25.1	17.9

Int. Std.	Y_3600
Units	Cts/S
Avg	**50470.**
Stddev	244.
%RSD	.48414

Sample Name: CalibStd=1 Acquired: 12/03/2010 12:51:20 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Ba4554	Cd2265	Co2286	Cr2677	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.001**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**
Stddev	.000	.000	.000	.000	.000	.000	.000
%RSD	9.31	80.9	4.54	31.3	35.9	24.2	59.5

Int. Std.	Y_3600
Units	Cts/S
Avg	**50017.**
Stddev	656.
%RSD	1.3120

Sample Name: CalibStd=5 Acquired: 12/03/2010 12:56:50 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	Ba4554	Be3130	Cd2265	Co2286	Cr2677	Cu2247	Mn2576	Mo2020	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.001**	**.000**	**.002**	**.005**	**.000**	**.000**	**.001**	**.000**	**.001**	**.000**	**.000**	**.000**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	3.26	11.4	5.51	3.03	2.73	2.39	4.98	2.78	8.80	11.3	7.83	59.4

Elem	V_2924
Units	Cts/S
Avg	**.001**
Stddev	.000
%RSD	20.2

Int. Std.	Y_3600
Units	Cts/S
Avg	**50884.**
Stddev	145.
%RSD	.28425

Sample Name: CalibStd=10 Acquired: 12/03/2010 13:02:21 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	Ba4554	Be3130	Cd2265	Co2286	Cr2677	Cu2247	Mg2795	Mn2576	Mo2020	Ni2316
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.002**	**.000**	**.004**	**.010**	**.001**	**.000**	**.001**	**.000**	**.004**	**.001**	**.000**	**.000**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	1.37	7.34	1.93	.735	.834	2.61	2.21	4.40	.969	4.42	4.45	4.03

Elem	Pb2203	Sb2068	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.000**	**.000**	**.000**	**.001**	**.001**
Stddev	.000	.000	.000	.000	.000	.000	.000
%RSD	9.06	27.2	769.	91.2	41.6	6.68	.810

Int. Std.	Y_3600
Units	Cts/S
Avg	**51091.**
Stddev	216.
%RSD	.42311

Sample Name: CalibStd=20 Acquired: 12/03/2010 13:07:53 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al1670	Ba4554	Cr2677	Fe2599	Mg2795	Mn2576	Mo2020	Ni2316	Sb2175	Tl1908	V_2924
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.009**	**.002**	**.001**	**.008**	**.002**	**.000**	**.000**	**.000**	**.000**	**.003**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	10.3	3.36	2.11	3.18	.197	1.69	4.47	3.23	108.	20.1	4.02

Int. Std.	Y_3600
Units	Cts/S
Avg	**51608.**
Stddev	228.
%RSD	.44108

Sample Name: CalibStd=50 Acquired: 12/03/2010 13:13:22 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al1670	Ba4554	Ca3933	Cd2265	Co2286	Cr2677	Cr2835	Cu2247	Fe2599	Mg2795	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.024**	**.145**	**.005**	**.002**	**.005**	**.001**	**.001**	**.001**	**.018**	**.006**	**.000**
Stddev	.000	.001	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	1.80	3.02	1.50	1.17	1.88	2.57	2.53	2.37	2.86	1.92	2.86	1.01

Elem	Mo2045	Ni2316	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.001**	**.000**	**.000**	**.000**	**.007**	**.002**
Stddev	.000	.000	.000	.000	.000	.000	.000
%RSD	3.34	.727	4.96	13.5	11.1	1.79	1.15

Int. Std.	Y_3600
Units	Cts/S
Avg	**50814.**
Stddev	712.
%RSD	1.4004

Sample Name: CalibStd=100 Acquired: 12/03/2010 13:18:48 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	As1890	Ba4554	Be2348	Be3130	Ca3968	Cd2265	Cd2288	Co2286	Cr2677	Cr2835	Cu2247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.022**	**.000**	**.049**	**.006**	**.102**	**.091**	**.010**	**.006**	**.003**	**.010**	**.002**	**.002**
Stddev	.000	.000	.001	.000	.001	.001	.000	.000	.000	.000	.000	.000
%RSD	1.39	4.00	1.44	.657	.777	1.10	.492	.725	.787	.094	.703	.926

Elem	Fe2599	Mn2576	Mo2020	Mo2045	Ni2216	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.002**	**.011**	**.001**	**.001**	**.003**	**.002**	**.001**	**.000**	**.000**	**.000**	**.014**	**.004**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	2.78	1.56	.956	.204	.865	.909	2.40	7.26	7.55	2.40	.303	.824

Int. Std.	Y_3600
Units	Cts/S
Avg	**50760.**
Stddev	367.
%RSD	.72350

Sample Name: CalibStd=1000 Acquired: 12/03/2010 13:24:12 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al1670	Al3092	Al3961	As1890	Ba4934	Be2348	Be3130	Ca3179	Ca3968	Cd2265	Cd2288	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.002**	**.007**	**.015**	**.000**	**.669**	**.066**	**1.03**	**.022**	**1.05**	**.101**	**.059**	**.031**
Stddev	.000	.000	.000	.000	.002	.000	.00	.000	.00	.001	.000	.000
%RSD	.739	1.82	.752	1.96	.301	.538	.347	.740	.284	.986	.727	.793

Elem	Co2388	Cr2677	Cr2835	Cu2247	Fe2343	Fe2395	Fe2599	Mg2790	Mg2802	Mn2576	Mn2593	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.006**	**.106**	**.022**	**.019**	**.000**	**.004**	**.022**	**.002**	**.276**	**.118**	**.073**	**.009**
Stddev	.000	.001	.000	.000	.000	.000	.000	.000	.001	.001	.000	.000
%RSD	.678	.882	.839	.882	2.82	1.28	.389	2.14	.387	.919	.418	.776

Elem	Mo2045	Ni2216	Ni2316	Pb2169	Pb2203	Sb2068	Sb2175	Se1960	Se2062	Tl1908	V_2908	V_2924
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.007**	**.032**	**.023**	**.001**	**.006**	**.002**	**.001**	**.001**	**.000**	**.001**	**.141**	**.136**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000
%RSD	.629	.905	.692	1.06	.682	.888	.516	1.05	1.84	.795	.441	.365

Elem	Zn2062	Zn2138
Units	Cts/S	Cts/S
Avg	**.019**	**.038**
Stddev	.000	.000
%RSD	.448	.674

Sample Name: CalibStd=1000 Acquired: 12/03/2010 13:24:12 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Units	Cts/S
Avg	**50134.**
Stddev	228.
%RSD	.45426

Sample Name: CalibStd=10000 Acquired: 12/03/2010 13:29:17 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al3092	Al3961	As1890	Ba4934	Ca3179	Ca3968	Co2388	Cr2835	Cu2247	Fe2343	Fe2395	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.048**	**.113**	**.004**	**6.27**	**.139**	**7.91**	**.056**	**.209**	**.177**	**.002**	**.034**	**.013**
Stddev	.001	.003	.000	.08	.004	.23	.001	.005	.003	.000	.001	.000
%RSD	2.90	2.52	1.68	1.33	2.77	2.88	2.43	2.42	1.69	5.25	2.95	3.56

Elem	Mg2802	Mn2576	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068	Sb2175	Se1960	Se2062	Tl1908	V_2908
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.10**	**1.15**	**.674**	**.065**	**.302**	**.010**	**.020**	**.007**	**.007**	**.002**	**.011**	**1.31**
Stddev	.06	.03	.016	.001	.006	.000	.000	.000	.000	.000	.000	.02
%RSD	3.04	2.82	2.31	1.80	1.88	2.15	1.65	1.83	1.87	1.50	1.92	1.66

Elem	Zn2062
Units	Cts/S
Avg	**.181**
Stddev	.004
%RSD	1.96

Int. Std.	Y_3600
Units	Cts/S
Avg	**50253.**
Stddev	916.
%RSD	1.8220

Sample Name: CalibStd-100k Acquired: 12/03/2010 13:35:02 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Cr2835	Mn2593	Pb2169	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.11**	**6.53**	**.098**	**1.50**
Stddev	.01	.02	.001	.01
%RSD	.397	.298	.581	.415

Int. Std.	Y_3600
Units	Cts/S
Avg	**50345.**
Stddev	197.
%RSD	.39078

Sample Name: CalibStd=100000 Acquired: 12/03/2010 13:40:56 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al3092	Al3961	Ca3179	Fe2343	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.461**	**1.09**	**1.33**	**.019**	**.134**
Stddev	.002	.00	.01	.000	.001
%RSD	.390	.399	.353	.791	.493

Int. Std.	Y_3600
Units	Cts/S
Avg	**49360.**
Stddev	372.
%RSD	.75426

Sample Name: CalibStd=500000 Acquired: 12/03/2010 13:46:48 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al3961	Ca3179	Fe2343	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5.72**	**6.21**	**.088**	**.637**
Stddev	.00	.04	.001	.007
%RSD	.010	.658	1.41	1.13

Int. Std.	Y_3600
Units	Cts/S
Avg	**48356.**
Stddev	337.
%RSD	.69793

Sample Name: CalibStd-1000k Acquired: 12/03/2010 13:52:40 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al3961	Ca3179	Fe2343	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**11.1**	**11.5**	**.150**	**1.14**
Stddev	.1	.2	.002	.02
%RSD	.957	1.63	1.64	1.48

Int. Std.	Y_3600
Units	Cts/S
Avg	**47243.**
Stddev	385.
%RSD	.81400

Sample Name: icv Acquired: 12/03/2010 14:04:19 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2388	Cr2677	Cu2247	Fe2395
Avg	**116.**	**12200.**	**2050.**	**2060.**	**50.5**	**10100.**	**49.8**	**518.**	**197.**	**252.**	**4920.**
Stddev	2.	65.	21.	14.	.1	35.	.2	8.	2.	1.	21.
%RSD	1.62	.532	1.00	.677	.291	.347	.483	1.46	.924	.207	.434
Check ?	None	None	None	None	None	None	None	None	None	None	None
Value											
Range											

Elem	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se2062	Tl1908	V_2924	Zn2138
Avg	**10400.**	**508.**	**504.**	**495.**	**499.**	**536.**	**2120.**	**2110.**	**491.**	**505.**
Stddev	80.	1.	2.	2.	2.	10.	54.	15.	1.	2.
%RSD	.765	.244	.323	.345	.333	1.87	2.53	.714	.243	.410
Check ?	None	None	None	None	None	None	None	None	None	None
Value										
Range										

Int. Std.	Y_3600
Avg	**50998.**
Stddev	122.
%RSD	.23904

Sample Name: icb Acquired: 12/03/2010 14:15:22 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1890	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**.016**	**25.9**	**-8.14**	**.479**	**.030**	**25.4**	**-.062**	**.328**	**.945**	**.261**	**22.1**	**28.2**
Stddev	1.05	2.5	5.23	.213	.013	2.5	.223	.028	.076	.898	4.2	3.0
%RSD	6540.	9.71	64.2	44.6	41.7	9.77	361.	8.41	8.00	345.	18.8	10.5
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**.414**	**.913**	**.560**	**.941**	**-1.05**	**-.384**	**.938**	**.226**	**-.551**
Stddev	.143	.850	.641	1.45	3.80	.674	3.54	.085	.153
%RSD	34.6	93.2	115.	154.	362.	175.	378.	37.4	27.8
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**50932.**
Stddev	149.
%RSD	.29297

Sample Name: MRL Acquired: 12/03/2010 14:20:52 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1890	Ba4554	Be3130	Ca3968	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**20.1**	**346.**	**7.68**	**9.83**	**3.95**	**540.**	**5.00**	**10.4**	**10.9**	**11.3**	**289.**	**522.**
Stddev	.0	3.	18.8	.37	.04	.	.08	.3	.6	.1	5.	.
%RSD	.024	.765	245.	3.78	1.05	.030	1.61	2.49	5.29	.540	1.57	.028
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**12.7**	**10.0**	**10.2**	**12.0**	**20.5**	**10.9**	**24.6**	**9.89**	**10.6**
Stddev	.1	.5	.4	1.1	2.5	3.2	1.3	.43	.1
%RSD	.619	5.30	4.04	9.26	12.4	29.3	5.32	4.36	1.40
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**51209.**
Stddev	49.
%RSD	.09568

Sample Name: icsa Acquired: 12/03/2010 14:26:19 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Avg	**.000**	**537000.**	**.003**	**.015**	**.003**	**572000.**	**.081**	**.037**	**.004**	**.000**
Stddev	.398	5370.	9.83	.246	.019	8930.	.035	.331	.846	.189
%RSD	30e15	.998	374000.	1590.	685.	1.56	43.2	891.	23800.	108000.
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2343	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Avg	**486000.**	**516000.**	**.000**	**-.056**	**.027**	**.016**	**.025**	**-.019**	**.086**	**.077**
Stddev	1830.	4630.	.706	.860	.219	2.37	5.72	11.6	7.02	.402
%RSD	.375	.898	1085e6	1540.	808.	14400.	22500.	60300.	8190.	522.
Check ?	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Zn2138
Avg	**.000**
Stddev	.625
%RSD	416000.
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: icsa Acquired: 12/03/2010 14:26:19 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Avg	**47864.**
Stddev	285.
%RSD	.59480

Sample Name: icsab Acquired: 12/03/2010 14:32:18 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be2348	Ca3179	Cd2265	Co2388	Cr2677	Cu2247
Avg	**535.**	**553000.**	**552.**	**595.**	**410.**	**585000.**	**442.**	**442.**	**474.**	**509.**
Stddev	3.	780.	22.	4.	3.	4230.	4.	10.	2.	5.
%RSD	.647	.141	4.05	.602	.716	.723	.962	2.27	.442	.940
Check ?	None	None	None	None	None	None	None	None	None	None
Value										
Range										

Elem	Fe2343	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se2062	Tl1908	V_2924
Avg	**467000.**	**504000.**	**561.**	**527.**	**469.**	**480.**	**580.**	**491.**	**477.**	**536.**
Stddev	4660.	3770.	6.	3.	4.	5.	6.	79.	4.	3.
%RSD	.997	.747	1.15	.604	.883	1.02	1.03	16.1	.937	.570
Check ?	None	None	None	None	None	None	None	None	None	None
Value										
Range										

Elem	Zn2138
Avg	**537.**
Stddev	5.
%RSD	.971
Check ?	None
Value	
Range	

Sample Name: icsab Acquired: 12/03/2010 14:32:18 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Avg	**48226.**
Stddev	399.
%RSD	.82646

Sample Name: 870204 Acquired: 12/03/2010 14:37:58 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.456**	**216000.**	**188.**	**2050.**	**11.8**	**75400.**	**4.90**	**160.**	**1620.**	**198.**
Stddev	.221	1780.	4.	16.	.2	564.	.10	1.	16.	1.
%RSD	48.6	.823	1.95	.786	1.86	.748	2.03	.730	.992	.414

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**328000.**	**34600.**	**30300.**	**25.8**	**265.**	**410.**	**31.7**	**23.3**	**12.0**	**413.**
Stddev	2060.	343.	262.	1.0	2.	1.	3.1	4.4	5.8	3.
%RSD	.629	.992	.868	3.96	.823	.358	9.87	18.9	48.3	.671

Elem	Zn2062
Units	ug/L
Avg	**1070.**
Stddev	11.
%RSD	.996

Int. Std.	Y_3600
Units	Cts/S
Avg	**51593.**
Stddev	308.
%RSD	.59676

Sample Name: 870207 Acquired: 12/03/2010 14:43:38 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-.248**	**214000.**	**185.**	**1830.**	**11.3**	**79400.**	**4.70**	**163.**	**2750.**	**228.**
Stddev	1.18	2570.	4.	38.	.1	1200.	.24	1.	39.	1.
%RSD	477.	1.20	2.39	2.11	.583	1.51	5.07	.517	1.43	.489

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**361000.**	**39000.**	**19000.**	**25.6**	**316.**	**348.**	**53.8**	**15.1**	**7.97**	**410.**
Stddev	9890.	989.	205.	.5	3.	2.	1.1	9.1	6.05	1.
%RSD	2.74	2.54	1.08	2.00	.791	.543	1.96	60.6	75.9	.298

Elem	Zn2062
Units	ug/L
Avg	**1110.**
Stddev	3.
%RSD	.260

Int. Std.	Y_3600
Units	Cts/S
Avg	**50989.**
Stddev	221.
%RSD	.43288

Sample Name: 871184 Acquired: 12/03/2010 14:49:16 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**3.22**	**174000.**	**219.**	**4290.**	**13.2**	**1080000.**	**10.6**	**163.**	**354.**
Stddev	.59	591.	30.	11.	.1	4390.	.3	1.	3.
%RSD	18.2	.341	13.8	.255	.430	.405	2.60	.504	.901

Elem	Cu2247	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**205.**	**481000.**	**47100.**	**24100.**	**32.2**	**337.**	**274.**	**7.67**	**38.7**
Stddev	1.	3000.	176.	102.	1.4	1.	2.	1.89	3.4
%RSD	.461	.625	.375	.422	4.29	.350	.800	24.7	8.87

Elem	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L
Avg	**4.65**	**339.**	**1080.**
Stddev	6.11	1.	5.
%RSD	131.	.365	.505

Int. Std.	Y_3600
Units	Cts/S
Avg	**49184.**
Stddev	244.
%RSD	.49628

Sample Name: 871187 Acquired: 12/03/2010 15:00:41 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**3.15**	**204000.**	**186.**	**1890.**	**8.82**	**539000.**	**5.68**	**149.**	**1170.**	**182.**
Stddev	.53	247.	14.	2.	.14	2560.	.35	.	1.	1.
%RSD	16.8	.121	7.51	.120	1.57	.474	6.11	.067	.090	.746

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**415000.**	**40300.**	**20600.**	**21.1**	**261.**	**250.**	**25.5**	**32.5**	**10.3**	**401.**
Stddev	1270.	161.	75.	.5	1.	2.	.3	14.5	4.0	2.
%RSD	.306	.399	.365	2.60	.297	.831	1.09	44.5	39.3	.425

Elem	Zn2062
Units	ug/L
Avg	**939.**
Stddev	6.
%RSD	.609

Int. Std.	Y_3600
Units	Cts/S
Avg	**49677.**
Stddev	45.
%RSD	.09023

Sample Name: 871188 Acquired: 12/03/2010 15:06:23 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 10
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1.39**	**50700.**	**56.6**	**2860.**	**6.18**	**815000.**	**3.31**	**37.2**	**177.**	**70.5**
Stddev	.29	99.	10.8	5.	.10	5520.	.14	.5	1.	.8
%RSD	21.0	.194	19.1	.174	1.67	.677	4.40	1.27	.773	1.11

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**160000.**	**31100.**	**8160.**	**10.1**	**106.**	**167.**	**77.5**	**4.36**	**.659**	**66.9**
Stddev	2660.	221.	17.	.8	.	2.	16.4	15.9	6.58	.6
%RSD	1.66	.711	.209	7.47	.253	1.42	21.1	365.	997.	.947

Elem	Zn2138
Units	ug/L
Avg	**420.**
Stddev	3.
%RSD	.604

Int. Std.	Y_3600
Units	Cts/S
Avg	**50489.**
Stddev	383.
%RSD	.75936

Sample Name: 871190 Acquired: 12/03/2010 15:17:52 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-.382**	**198000.**	**194.**	**1740.**	**10.2**	**368000.**	**4.44**	**191.**	**2120.**	**283.**
Stddev	.635	1260.	20.	8.	.0	6680.	.27	1.	14.	2.
%RSD	166.	.636	10.1	.475	.191	1.82	6.18	.686	.667	.708

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**343000.**	**32600.**	**25300.**	**24.2**	**333.**	**278.**	**38.5**	**4.55**	**13.3**	**376.**
Stddev	1010.	120.	226.	.3	3.	6.	10.2	5.31	10.3	4.
%RSD	.294	.370	.896	1.25	.813	2.02	26.5	117.	77.4	1.05

Elem	Zn2138
Units	ug/L
Avg	**953.**
Stddev	10.
%RSD	1.000

Int. Std.	Y_3600
Units	Cts/S
Avg	**51431.**
Stddev	329.
%RSD	.63998

Sample Name: 871191 Acquired: 12/03/2010 15:23:33 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 10
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.847**	**33500.**	**45.9**	**1860.**	**3.11**	**496000.**	**2.77**	**34.7**	**164.**	**58.6**
Stddev	1.08	998.	16.1	56.	.15	17100.	.25	1.1	5.	1.5
%RSD	127.	2.98	35.1	3.01	4.80	3.44	9.05	3.02	2.95	2.61

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**131000.**	**13400.**	**5060.**	**7.71**	**98.0**	**73.4**	**5.13**	**8.79**	**8.96**	**67.5**
Stddev	5360.	561.	122.	.36	2.9	2.7	4.85	5.87	4.45	1.9
%RSD	4.08	4.20	2.41	4.70	2.92	3.73	94.6	66.8	49.7	2.75

Elem	Zn2138
Units	ug/L
Avg	**352.**
Stddev	10.
%RSD	2.87

Int. Std.	Y_3600
Units	Cts/S
Avg	**50940.**
Stddev	1444.
%RSD	2.8354

Sample Name: 871192 Acquired: 12/03/2010 15:29:20 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**3.44**	**281000.**	**194.**	**2670.**	**13.5**	**1260000.**	**3.74**	**165.**	**1830.**
Stddev	.07	12000.	21.	132.	.6	67800.	.71	13.	77.
%RSD	2.14	4.29	10.5	4.93	4.12	5.37	18.9	7.72	4.19

Elem	Cu2247	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**202.**	**514000.**	**56200.**	**24100.**	**23.1**	**350.**	**307.**	**23.9**	**41.1**
Stddev	19.	24500.	2360.	1020.	1.8	27.	26.	3.2	6.4
%RSD	9.25	4.78	4.20	4.23	7.85	7.77	8.36	13.3	15.6

Elem	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L
Avg	**6.43**	**485.**	**1010.**
Stddev	13.3	16.	80.
%RSD	208.	3.32	7.89

Int. Std.	Y_3600
Units	Cts/S
Avg	**48718.**
Stddev	827.
%RSD	1.6981

Sample Name: ccv1 Acquired: 12/03/2010 15:35:01 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be2348	Ca3179	Cd2288	Co2388	Cr2835	Cu2247	Fe2395	Mg2790
Avg	**465.**	**5290.**	**5000.**	**5160.**	**514.**	**5040.**	**511.**	**5270.**	**5130.**	**5070.**	**5200.**	**5120.**
Stddev	2.	13.	48.	5.	1.	21.	3.	25.	35.	33.	40.	15.
%RSD	.464	.247	.963	.089	.239	.407	.682	.479	.676	.641	.763	.299
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068	Se2062	Tl1908	V_2908	Zn2062
Avg	**5390.**	**5010.**	**5060.**	**5060.**	**4770.**	**5070.**	**5080.**	**5090.**	**4980.**
Stddev	39.	38.	37.	42.	48.	98.	43.	19.	32.
%RSD	.729	.755	.722	.838	1.00	1.93	.844	.378	.632
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**50434.**
Stddev	314.
%RSD	.62190

Sample Name: ccv2 Acquired: 12/03/2010 15:40:11 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1890	Ba4934	Be3130	Ca3968	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**51.3**	**427.**	**509.**	**514.**	**50.1**	**532.**	**51.5**	**505.**	**502.**	**525.**	**435.**	**515.**
Stddev	.6	6.	10.	11.	1.0	10.	.6	7.	7.	6.	10.	9.
%RSD	1.13	1.39	1.89	2.18	2.00	1.90	1.20	1.31	1.32	1.18	2.29	1.80
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**525.**	**496.**	**512.**	**510.**	**495.**	**517.**	**544.**	**505.**	**504.**
Stddev	10.	9.	7.	9.	11.	9.	11.	6.	7.
%RSD	1.88	1.86	1.43	1.85	2.24	1.73	2.07	1.12	1.30
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**51125.**
Stddev	725.
%RSD	1.4189

Sample Name: ccb Acquired: 12/03/2010 15:50:53 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1890	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**-.165**	**4.51**	**-5.51**	**.796**	**.128**	**6.91**	**-.036**	**.714**	**.753**	**.641**	**5.59**	**3.47**
Stddev	.135	.58	11.0	.257	.105	.15	.114	.195	.476	.198	1.51	.06
%RSD	81.7	12.9	200.	32.3	82.3	2.13	316.	27.3	63.2	30.9	27.1	1.82
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**.297**	**-.267**	**.439**	**.542**	**-1.76**	**-6.35**	**-.976**	**.005**	**-1.25**
Stddev	.467	.212	.266	1.84	4.47	3.97	7.18	.841	.09
%RSD	157.	79.5	60.7	339.	255.	62.5	735.	16200.	7.06
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**50804.**
Stddev	107.
%RSD	.21017

Sample Name: 871193 Acquired: 12/03/2010 15:56:24 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.114**	**189000.**	**196.**	**1830.**	**12.8**	**796000.**	**3.00**	**160.**	**259.**	**265.**
Stddev	.341	3440.	23.	30.	.2	8470.	.15	1.	5.	2.
%RSD	300.	1.82	11.6	1.65	1.71	1.06	4.93	.678	1.95	.880

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**324000.**	**44600.**	**15700.**	**18.8**	**324.**	**255.**	**4.06**	**11.0**	**3.45**	**316.**
Stddev	3640.	545.	317.	.2	2.	3.	2.11	5.0	10.8	6.
%RSD	1.12	1.22	2.02	1.29	.516	1.04	52.0	45.7	313.	2.02

Elem	Zn2062
Units	ug/L
Avg	**989.**
Stddev	8.
%RSD	.784

Int. Std.	Y_3600
Units	Cts/S
Avg	**51151.**
Stddev	991.
%RSD	1.9366

Sample Name: 871194 Acquired: 12/03/2010 16:02:07 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.264**	**80300.**	**101.**	**958.**	**7.66**	**256000.**	**6.43**	**443.**	**4290.**	**2020.**
Stddev	.456	866.	8.	7.	.06	3190.	.07	3.	44.	14.
%RSD	173.	1.08	8.39	.731	.789	1.24	1.02	.692	1.02	.698

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**220000.**	**25100.**	**9500.**	**16.5**	**417.**	**470.**	**62.4**	**5.75**	**4.91**	**131.**
Stddev	4430.	132.	35.	.2	2.	5.	3.5	6.41	2.87	1.
%RSD	2.01	.524	.367	1.04	.517	.964	5.69	112.	58.6	.443

Elem	Zn2062
Units	ug/L
Avg	**5960.**
Stddev	47.
%RSD	.782

Int. Std.	Y_3600
Units	Cts/S
Avg	**51458.**
Stddev	369.
%RSD	.71684

Sample Name: 871195 Acquired: 12/03/2010 16:07:54 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1.88**	**72300.**	**165.**	**769.**	**7.26**	**187000.**	**4.39**	**607.**	**530.**	**2850.**
Stddev	.43	471.	25.	5.	.05	1500.	.14	4.	10.	20.
%RSD	22.7	.651	15.4	.682	.678	.802	3.28	.652	1.90	.686

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**290000.**	**25600.**	**10600.**	**12.0**	**348.**	**349.**	**6.35**	**13.8**	**4.90**	**133.**
Stddev	1580.	186.	114.	.5	2.	3.	6.62	5.6	5.32	2.
%RSD	.546	.727	1.07	3.83	.548	.895	104.	40.9	109.	1.79

Elem	Zn2062
Units	ug/L
Avg	**1580.**
Stddev	9.
%RSD	.558

Int. Std.	Y_3600
Units	Cts/S
Avg	**51732.**
Stddev	1272.
%RSD	2.4592

Sample Name: 871196 Acquired: 12/03/2010 16:13:32 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2388	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**2.44**	**52300.**	**142.**	**1000.**	**4.79**	**816000.**	**4.02**	**43.8**	**153.**	**7420.**
Stddev	.31	3030.	7.	61.	.19	49600.	.07	11.6	1.	132.
%RSD	12.7	5.80	4.72	6.08	3.90	6.09	1.64	26.5	.928	1.78

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**214000.**	**22500.**	**6800.**	**8.44**	**272.**	**348.**	**.205**	**14.0**	**-1.25**	**91.2**
Stddev	12100.	1290.	391.	.76	5.	7.	2.76	5.3	7.42	2.3
%RSD	5.67	5.74	5.74	8.97	1.70	1.98	1350.	37.6	595.	2.47

Elem	Zn2062
Units	ug/L
Avg	**986.**
Stddev	20.
%RSD	2.06

Int. Std.	Y_3600
Units	Cts/S
Avg	**49376.**
Stddev	376.
%RSD	.76155

Sample Name: 871197 Acquired: 12/03/2010 16:19:15 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**2.63**	**82900.**	**128.**	**1610.**	**9.30**	**1280000.**	**6.66**	**461.**	**188.**
Stddev	.57	2390.	16.	53.	.23	55600.	.07	6.	3.
%RSD	21.9	2.88	12.8	3.27	2.50	4.33	.984	1.38	1.78

Elem	Cu2247	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2175	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**2130.**	**278000.**	**44100.**	**12000.**	**11.8**	**386.**	**389.**	**129.**	**23.6**
Stddev	31.	9380.	1320.	381.	.3	5.	6.	25.	2.2
%RSD	1.45	3.37	2.99	3.17	2.95	1.37	1.59	19.2	9.32

Elem	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L
Avg	**8.08**	**104.**	**6590.**
Stddev	4.07	1.	98.
%RSD	50.3	.486	1.49

Int. Std.	Y_3600
Units	Cts/S
Avg	**49209.**
Stddev	29.
%RSD	.05899

Sample Name: 871198 Acquired: 12/03/2010 16:24:58 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**3.04**	**184000.**	**208.**	**5700.**	**15.5**	**1290000.**	**9.86**	**159.**	**1710.**
Stddev	.22	1840.	27.	65.	.2	24600.	.20	1.	16.
%RSD	7.19	1.00	12.8	1.14	1.55	1.90	2.01	.941	.927

Elem	Cu2247	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**261.**	**531000.**	**49900.**	**23000.**	**40.4**	**365.**	**346.**	**28.0**	**45.4**
Stddev	2.	7870.	802.	226.	1.3	3.	3.	2.7	5.5
%RSD	.626	1.48	1.61	.980	3.22	.950	.948	9.61	12.0

Elem	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L
Avg	**7.87**	**346.**	**1080.**
Stddev	1.84	3.	10.
%RSD	23.4	.722	.946

Int. Std.	Y_3600
Units	Cts/S
Avg	**50315.**
Stddev	331.
%RSD	.65817

Sample Name: ccv1 Acquired: 12/03/2010 16:53:05 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be2348	Ca3179	Cd2288	Co2388	Cr2835	Cu2247	Fe2395	Mg2790
Avg	**471.**	**5280.**	**5070.**	**5240.**	**545.**	**5120.**	**515.**	**5500.**	**5200.**	**5100.**	**5380.**	**5180.**
Stddev	8.	111.	64.	115.	10.	96.	8.	115.	101.	90.	107.	119.
%RSD	1.70	2.10	1.27	2.19	1.83	1.86	1.54	2.10	1.94	1.77	1.99	2.30
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068	Se2062	Tl1908	V_2908	Zn2062
Avg	**5510.**	**5050.**	**5080.**	**5080.**	**4870.**	**5140.**	**5050.**	**5200.**	**5050.**
Stddev	98.	82.	85.	83.	73.	133.	77.	83.	89.
%RSD	1.78	1.63	1.68	1.63	1.50	2.59	1.53	1.59	1.76
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**50038.**
Stddev	793.
%RSD	1.5852

Sample Name: ccv2 Acquired: 12/03/2010 16:58:16 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1890	Ba4934	Be3130	Ca3968	Cd2265	Co2388	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**50.4**	**423.**	**489.**	**511.**	**49.4**	**540.**	**50.0**	**542.**	**487.**	**514.**	**435.**	**513.**
Stddev	1.5	8.	21.	13.	1.5	13.	1.1	18.	12.	9.	13.	14.
%RSD	2.99	1.98	4.36	2.59	2.99	2.45	2.13	3.26	2.43	1.85	2.91	2.70
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**517.**	**487.**	**507.**	**506.**	**486.**	**496.**	**526.**	**499.**	**496.**
Stddev	13.	12.	13.	13.	13.	17.	5.	11.	11.
%RSD	2.52	2.42	2.53	2.49	2.59	3.32	.919	2.20	2.11
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

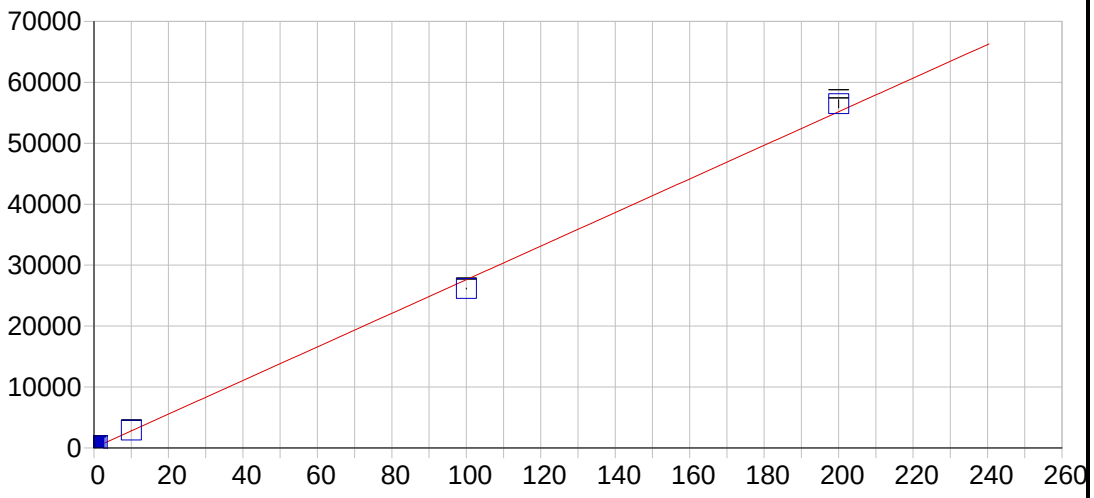
Int. Std.	Y_3600
Avg	**51995.**
Stddev	1137.
%RSD	2.1864

Sample Name: ccb Acquired: 12/03/2010 17:08:57 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1890	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**.048**	**7.31**	**1.60**	**1.24**	**.009**	**10.5**	**-.012**	**.489**	**.842**	**-.219**	**3.66**	**3.84**
Stddev	.216	.23	10.5	.29	.051	.1	.131	.217	.571	.690	1.37	.05
%RSD	450.	3.07	658.	23.3	549.	.571	1040.	44.4	67.8	316.	37.4	1.38
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**.752**	**.381**	**.404**	**1.19**	**-.344**	**-4.51**	**3.27**	**.367**	**-1.14**
Stddev	.144	.613	.352	.57	1.10	14.4	3.41	.076	.14
%RSD	19.1	161.	87.3	47.5	321.	320.	104.	20.7	12.1
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**51556.**
Stddev	202.
%RSD	.39225

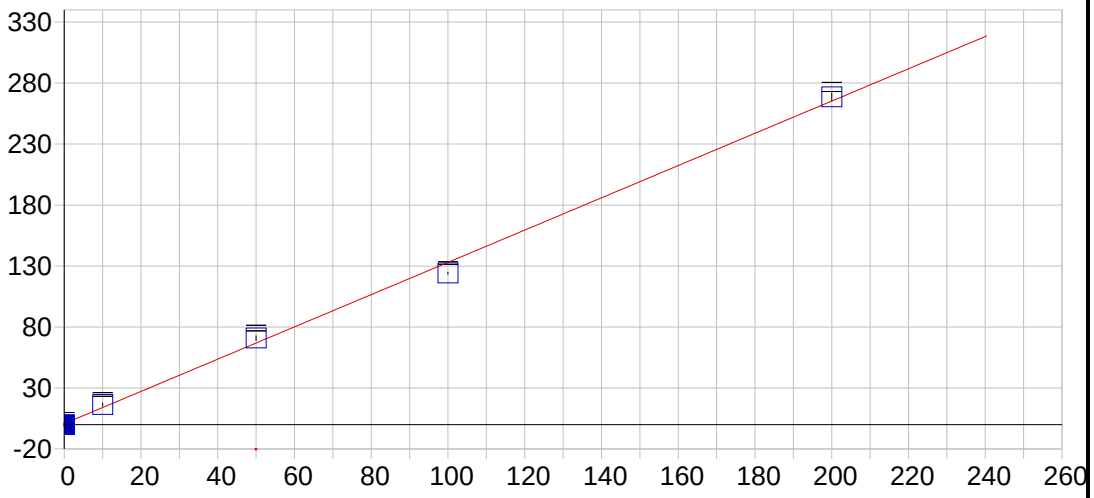


K 766.490 { 44}

Date of Fit:	11/22/2010 12:29:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	41.979862	Re-Slope:	1.000000
A1 (Gain):	275.656701	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999326	Status:	OK.
Std Error of Est:	4.890653		
Predicted MDL:	0.033629		
Predicted MQL:	0.112098		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00010	.000	.000	41.952	11.9	1
CalibStd-1.0	1.0000	1.1270	.127	12.7	352.65	3.62	1
CalibStd-10.0	10.000	10.374	.374	3.74	2901.6	8.64	1
CalibStd-0.5	.50000	.53303	.033	6.61	188.91	4.80	1
CalibStd-100	100.00	94.742	-5.26	-5.26	26158.	78.0	1
CalibStd-200	200.00	204.72	4.72	2.36	56475.	671.	1

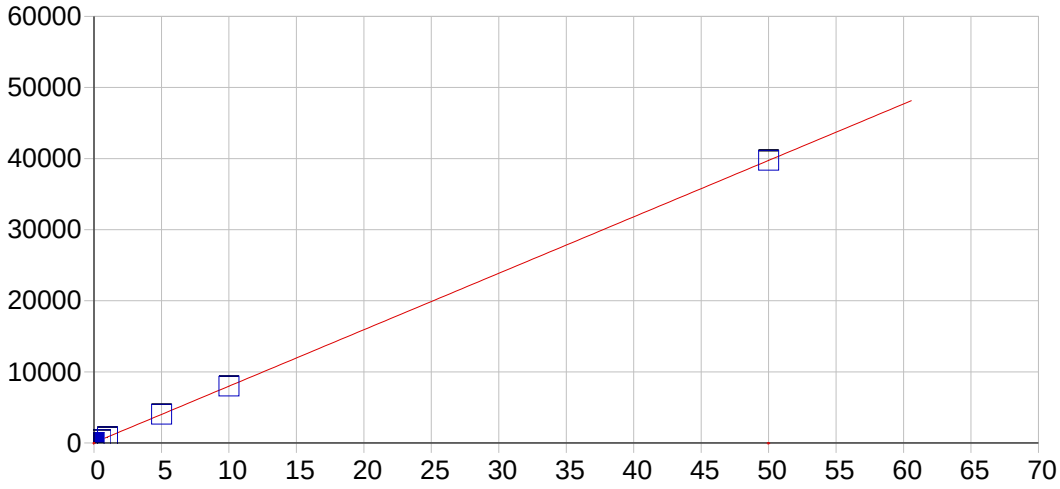


Na 330.237 {102}

Date of Fit:	11/22/2010 07:25:40	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.730901	Re-Slope:	1.000000
A1 (Gain):	1.322714	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998799	Status:	OK.
Std Error of Est:	6.119149		
Predicted MDL:	1.694771		
Predicted MQL:	5.649236		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.65214	-.652	.000	-.13169	1.91	1
CalibStd-200	200.00	202.51	2.51	1.25	268.59	3.70	1
CalibStd-10.0	10.000	11.835	1.84	18.4	16.386	1.52	1
CalibStd-50	50.000	53.017	3.02	6.03	70.858	2.32	1
CalibStd-100	100.00	93.291	-6.71	-6.71	124.13	1.15	1

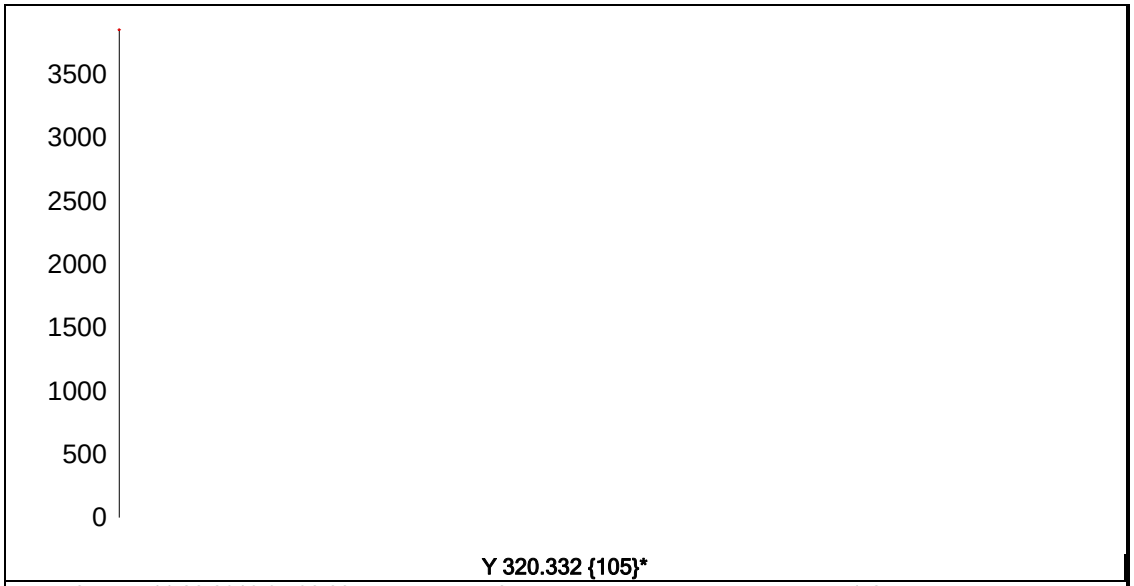


Na 589.592 { 57}

Date of Fit:	11/22/2010 07:20:47	Type of Fit:	Linear	Weighting:	None

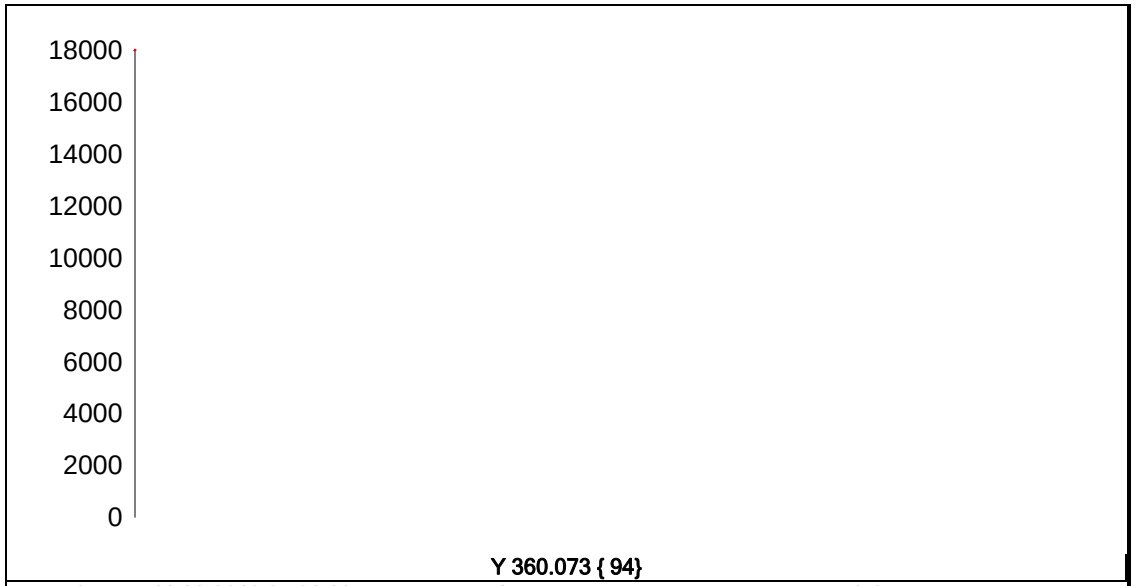
A0 (Offset):	43.502833	Re-Slope:	1.000000
A1 (Gain):	793.980305	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	15.750651		
Predicted MDL:	0.009923		
Predicted MQL:	0.033076		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.01608	.016	.000	56.271	3.39	1
CalibStd-0.5	.50000	.47261	-.027	-5.48	418.75	8.31	1
CalibStd-1.0	1.0000	.99181	-.008	-.819	830.98	6.05	1
CalibStd-5.0	5.0000	5.0222	.022	.445	4031.1	28.1	1
CalibStd-10.0	10.000	9.9988	-.001	-.012	7982.4	31.5	1
CalibStd-50	50.000	49.998	-.002	-.003	39741.	71.2	1



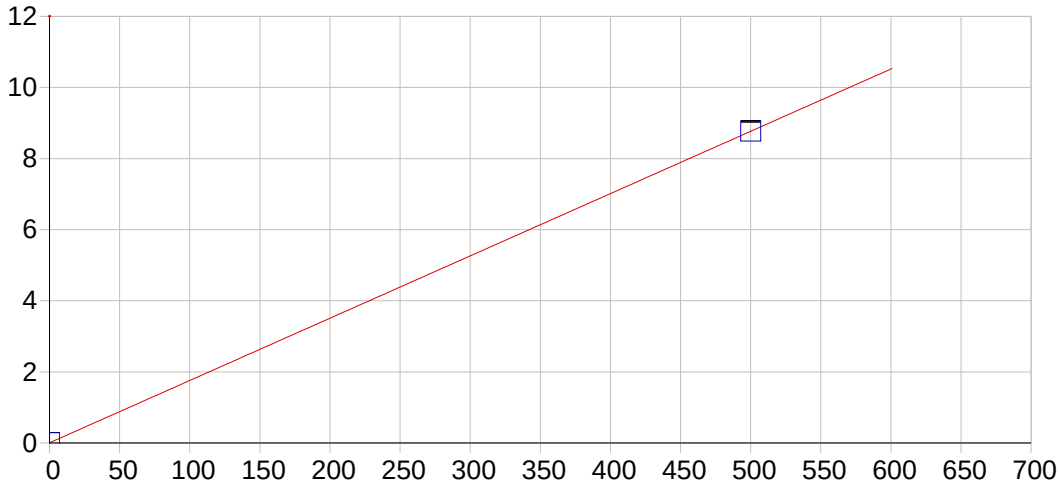
Date of Fit:	11/22/2010 07:08:33	Type of Fit:	Linear	Weighting:	1/Conc	
A0 (Offset):	0.000000		Re-Slope:	1.000000		
A1 (Gain):	0.000000		Y-int:	0.000000		
A2 (Curvature):	0.000000					
n (Exponent):	1.000000					
Correlation:	0.000000		Status:	Warning	Zero Gain	
Std Error of Est:	0.000000					
Predicted MDL:	n/a					
Predicted MQL:	n/a					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	3619.3	9.99	1



Date of Fit:	11/22/2010 07:08:33	Type of Fit:	Linear	Weighting:	1/Conc	
A0 (Offset):	0.000000		Re-Slope:	1.000000		
A1 (Gain):	0.000000		Y-int:	0.000000		
A2 (Curvature):	0.000000					
n (Exponent):	1.000000					
Correlation:	0.000000		Status:	Warning	Zero Gain	
Std Error of Est:	0.000000					
Predicted MDL:	n/a					
Predicted MQL:	n/a					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	16938.	101.	1

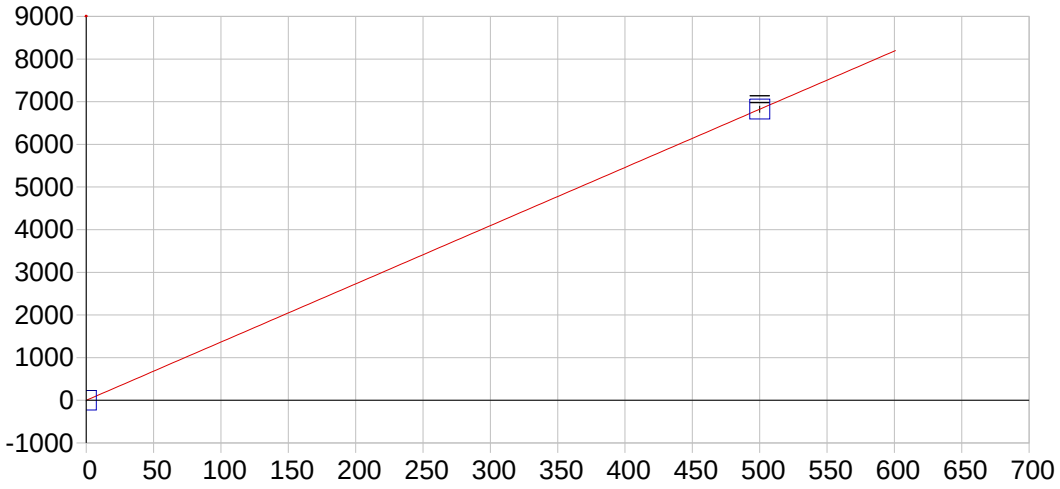


Al 308.215 {109}

Date of Fit:	11/22/2010 07:28:21	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.004072	Re-Slope:	1.000000
A1 (Gain):	0.017526	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.026740		
Predicted MQL:	0.089135		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00407	.000	1
CalibStd-500	500.00	500.00	.000	.000	8.7671	.021	1

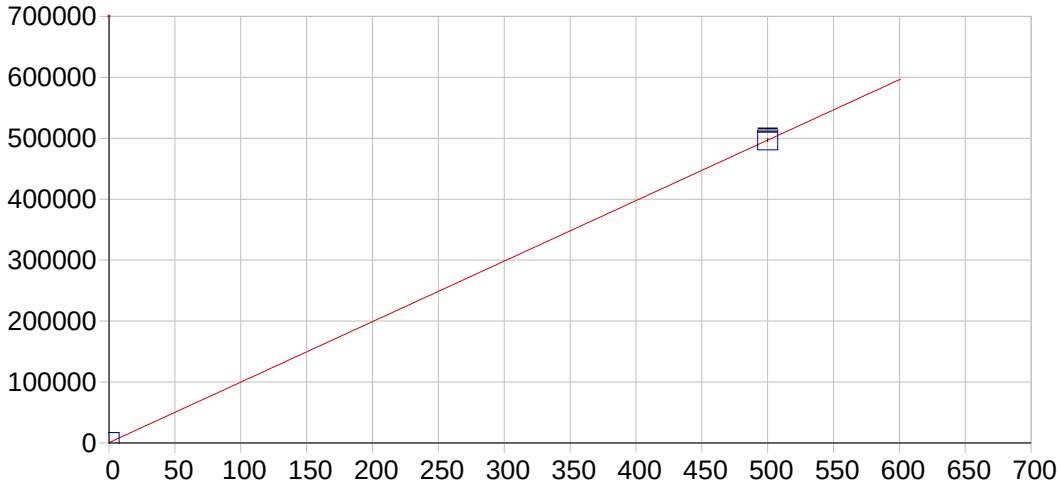


Al 396.152 { 85}

Date of Fit:	11/22/2010 07:28:21	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.548284	Re-Slope:	1.000000
A1 (Gain):	13.645900	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.280652		
Predicted MQL:	0.935506		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.54828	.666	1
CalibStd-500	500.00	500.00	.000	.000	6823.5	80.3	1

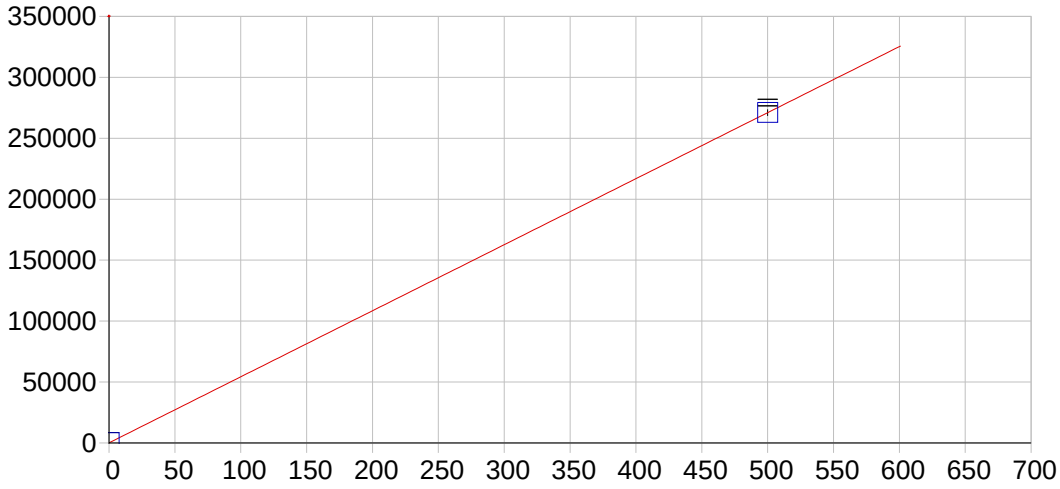


Mg 279.553 {121}

Date of Fit:	11/22/2010 07:28:21	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	579.664443	Re-Slope:	1.000000
A1 (Gain):	992.663774	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.001147		
Predicted MQL:	0.003823		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	579.66	35.0	1
CalibStd-500	500.00	500.00	.000	.000	496910.	2930.	1

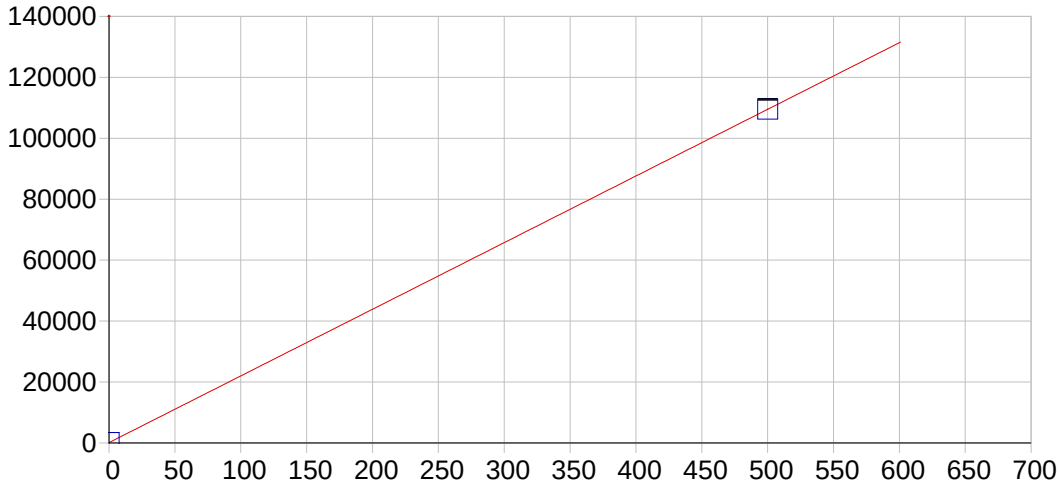


Mg 285.213 {118}

Date of Fit:	11/22/2010 07:28:21	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	90.420758	Re-Slope:	1.000000
A1 (Gain):	541.901541	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.002589		
Predicted MQL:	0.008631		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	90.421	4.78	1
CalibStd-500	500.00	500.00	.000	.000	271040.	2700.	1

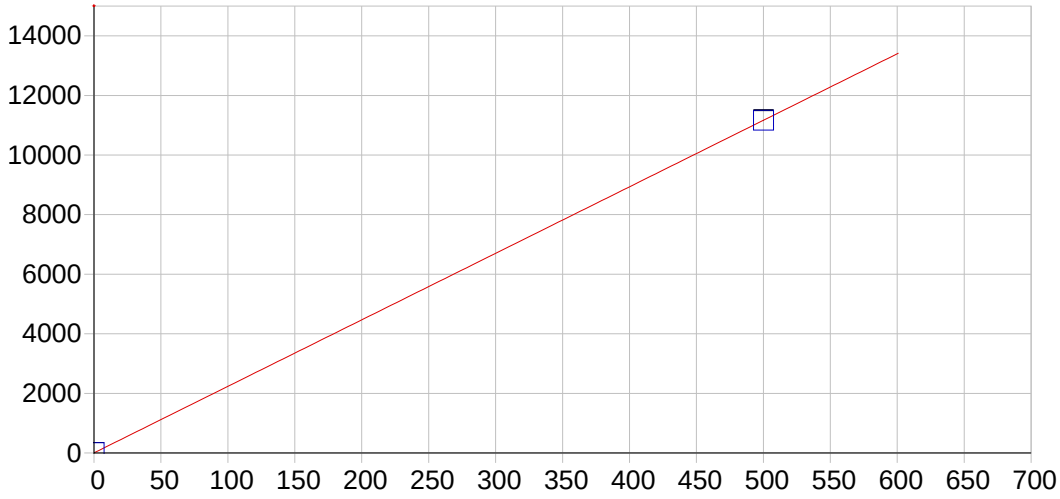


Ca 317.933 {106}

Date of Fit:	11/22/2010 07:28:21	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	122.629336	Re-Slope:	1.000000
A1 (Gain):	218.751299	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.007996		
Predicted MQL:	0.026652		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	122.63	6.17	1
CalibStd-500	500.00	500.00	.000	.000	109500.	205.	1



Fe 234.349 {144}

Date of Fit:	11/22/2010 07:28:21	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	2.908833	Re-Slope:	1.000000
A1 (Gain):	22.326041	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.043846		
Predicted MQL:	0.146154		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	2.9088	.178	1
CalibStd-500	500.00	500.00	.000	.000	11166.	12.7	1

Sample Name: Blank Acquired: 11/22/2010 07:05:58 Type: Cal
Method: Sodium and Potassium 1(v114) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**42.0**	**-.132**	**56.3**	**.548**	**90.4**	**123.**	**2.91**
Stddev	11.9	1.91	3.4	.666	4.8	6.	.18
%RSD	28.4	1450.	6.02	121.	5.29	5.03	6.12

Int. Std.	Y_3203
Units	Cts/S
Avg	**3619.3**
Stddev	10.0
%RSD	.27608

Sample Name: CalibStd-0.5 Acquired: 11/22/2010 07:08:36 Type: Cal
Method: Sodium and Potassium 1(v114) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895
Units	Cts/S	Cts/S
Avg	**189.**	**419.**
Stddev	5.	8.
%RSD	2.54	1.99

Sample Name: CalibStd-1.0 Acquired: 11/22/2010 07:11:04 Type: Cal
Method: Sodium and Potassium 1(v114) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895
Units	Cts/S	Cts/S
Avg	**353.**	**831.**
Stddev	4.	6.
%RSD	1.03	.728

Sample Name: CalibStd-5.0 Acquired: 11/22/2010 07:13:31 Type: Cal
Method: Sodium and Potassium 1(v114) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	Na5895
Units	Cts/S
Avg	**4030.**
Stddev	28.
%RSD	.697

Sample Name: CalibStd-10.0 Acquired: 11/22/2010 07:15:57 Type: Cal
Method: Sodium and Potassium 1(v114) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302	Na5895
Units	Cts/S	Cts/S	Cts/S
Avg	**2900.**	**16.4**	**7980.**
Stddev	9.	1.5	32.
%RSD	.298	9.28	.394

Sample Name: CalibStd-50 Acquired: 11/22/2010 07:18:24 Type: Cal
Method: Sodium and Potassium 1(v114) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	Na3302	Na5895
Units	Cts/S	Cts/S
Avg	**70.9**	**39700.**
Stddev	2.3	71.
%RSD	3.27	.179

Sample Name: CalibStd-100 Acquired: 11/22/2010 07:20:51 Type: Cal
Method: Sodium and Potassium 1(v114) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302
Units	Cts/S	Cts/S
Avg	**26200.**	**124.**
Stddev	78.	1.
%RSD	.298	.929

Sample Name: CalibStd-200 Acquired: 11/22/2010 07:23:18 Type: Cal
Method: Sodium and Potassium 1(v114) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302
Units	Cts/S	Cts/S
Avg	**56500.**	**269.**
Stddev	671.	4.
%RSD	1.19	1.38

Sample Name: CalibStd-500 Acquired: 11/22/2010 07:25:43 Type: Cal
Method: Sodium and Potassium 1(v114) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	Al3961	Mg2852	Ca3179	Fe2343
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6820.**	**271000.**	**109000.**	**11200.**
Stddev	80.	2700.	205.	13.
%RSD	1.18	.995	.187	.114

Int. Std.	Y_3203
Units	Cts/S
Avg	**2995.3**
Stddev	9.9
%RSD	.33074

Sample Name: icv Acquired: 11/22/2010 07:28:24 Type: QC
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**105.**	**101.**	**.105**	**.360**	**.023**	**.501**
Stddev	1.	1.	.142	.003	.006	.095
%RSD	.543	.835	136.	.704	27.9	19.0
#1	104.	100.	-.056	.357	.029	.611
#2	105.	101.	.155	.362	.017	.450
#3	105.	102.	.215	.360	.023	.442
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	**3269.8**
Stddev	13.2
%RSD	.40462
#1	3255.1
#2	3273.5
#3	3280.8

Sample Name: icb Acquired: 11/22/2010 07:30:50 Type: QC
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**.193**	**.016**	**-.090**	**-.124**	**-.428**	**-.086**
Stddev	.020	.005	.175	.000	.001	.019
%RSD	10.4	29.8	194.	.247	.327	21.9
#1	.216	.020	-.272	-.124	-.430	-.091
#2	.178	.017	-.076	-.125	-.427	-.065
#3	.185	.011	.077	-.124	-.428	-.102
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	**3377.7**
Stddev	17.3
%RSD	.51233
#1	3360.0
#2	3394.5
#3	3378.5

Sample Name: mrl Acquired: 11/22/2010 07:33:18 Type: QC
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**5.28**	**1.09**	**.318**	**.491**	**.103**	**.308**
Stddev	.02	.00	.118	.003	.008	.013
%RSD	.400	.397	37.0	.575	7.85	4.11
#1	5.25	1.10	.216	.488	.101	.321
#2	5.30	1.09	.447	.492	.113	.307
#3	5.28	1.09	.291	.493	.097	.296
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	**3338.8**
Stddev	14.3
%RSD	.42777
#1	3324.6
#2	3338.5
#3	3353.2

Sample Name: icsa Acquired: 11/22/2010 07:35:44 Type: QC
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**.000**	**.000**	**538.**	**458.**	**493.**	**473.**
Stddev	.01	.00	1.	1.	3.	2.
%RSD	23e15	20e15	.275	.290	.507	.390
#1	.004	.000	539.	458.	490.	471.
#2	-.011	-.003	540.	457.	493.	474.
#3	.007	.003	537.	459.	495.	474.
Check ?	Chk Pass	Chk Pass	None	None	None	None
High Limit						
Low Limit						

Int. Std.	Y_3203
Units	Cts/S
Avg	**2893.5**
Stddev	6.3
%RSD	.21641
#1	2888.5
#2	2891.4
#3	2900.5

Sample Name: icsab Acquired: 11/22/2010 07:38:26 Type: QC
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**109.**	**97.0**	**517.**	**442.**	**480.**	**462.**
Stddev	.	1.5	6.	4.	8.	6.
%RSD	.394	1.52	1.21	.810	1.65	1.29
#1	109.	98.6	512.	439.	471.	456.
#2	108.	96.6	516.	440.	481.	463.
#3	108.	95.8	524.	446.	487.	468.
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	**2844.4**
Stddev	14.5
%RSD	.51028
#1	2827.6
#2	2851.9
#3	2853.6

Sample Name: lcss35475 Acquired: 11/22/2010 07:41:06 Type: Unk
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**93.6**	**87.6**	**3.39**	**98.2**	**182.**	**2.03**
Stddev	.3	1.3	.36	.7	2.	.04
%RSD	.313	1.53	10.5	.738	1.26	2.00
#1	93.2	88.6	2.98	97.6	180.	1.98
#2	93.7	86.1	3.55	97.9	182.	2.06
#3	93.8	88.1	3.64	99.0	184.	2.04

Int. Std.	Y_3203
Units	Cts/S
Avg	**2993.2**
Stddev	14.2
%RSD	.47460
#1	2978.9
#2	2993.3
#3	3007.3

Sample Name: mbs35475 Acquired: 11/22/2010 07:43:40 Type: Unk
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**.334**	**.000**	**-.070**	**-.110**	**-.355**	**.022**
Stddev	.018	.01	.279	.002	.010	.021
%RSD	5.32	5620.	399.	2.03	2.79	97.0
#1	.339	.004	-.303	-.112	-.361	.047
#2	.350	-.009	.239	-.109	-.361	.008
#3	.315	.005	-.146	-.108	-.344	.011

Int. Std.	Y_3203
Units	Cts/S
Avg	**3217.4**
Stddev	25.1
%RSD	.78135
#1	3193.8
#2	3214.7
#3	3243.9

Sample Name: 870200 Acquired: 11/22/2010 07:46:08 Type: Unk
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**29.0**	**3.55**	**441.**	**140.**	**585.**	**814.**
Stddev	.1	.02	5.	1.	5.	7.
%RSD	.389	.518	1.24	.585	.793	.887
#1	28.8	3.53	443.	139.	583.	808.
#2	29.0	3.56	435.	141.	583.	812.
#3	29.0	3.56	446.	140.	591.	822.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2864.7**
Stddev	14.1
%RSD	.49257
#1	2851.7
#2	2862.7
#3	2879.7

Sample Name: 870201 Acquired: 11/22/2010 07:48:39 Type: Unk
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**37.6**	**2.12**	**465.**	**74.8**	**92.7**	**767.**
Stddev	.4	.01	8.	.3	.9	5.
%RSD	.942	.521	1.70	.337	.991	.652
#1	37.3	2.11	460.	74.5	92.4	765.
#2	37.6	2.12	461.	74.8	92.0	764.
#3	38.0	2.13	474.	75.0	93.8	773.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2951.8**
Stddev	18.1
%RSD	.61253
#1	2936.1
#2	2947.7
#3	2971.6

Sample Name: I870201 Acquired: 11/22/2010 07:51:02 Type: Unk
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**7.91**	**.401**	**72.6**	**16.4**	**20.6**	**188.**
Stddev	.06	.001	.4	.1	.1	1.
%RSD	.691	.371	.615	.372	.426	.570
#1	7.95	.399	73.1	16.4	20.7	189.
#2	7.85	.402	72.2	16.3	20.7	187.
#3	7.92	.402	72.4	16.4	20.6	188.

Int. Std.	Y_3203
Units	Cts/S
Avg	**3261.4**
Stddev	11.0
%RSD	.33743
#1	3257.1
#2	3253.3
#3	3273.9

Sample Name: dup870201 Acquired: 11/22/2010 07:53:26 Type: Unk
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**37.4**	**2.10**	**467.**	**73.9**	**91.5**	**757.**
Stddev	.1	.01	5.	.1	1.0	6.
%RSD	.156	.337	1.07	.149	1.09	.778
#1	37.4	2.11	464.	73.7	90.5	751.
#2	37.3	2.09	464.	73.9	91.6	756.
#3	37.4	2.10	473.	73.9	92.5	762.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2927.4**
Stddev	13.4
%RSD	.45609
#1	2912.5
#2	2931.5
#3	2938.3

Sample Name: mss870201 Acquired: 11/22/2010 07:55:48 Type: Unk
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**126.**	**84.9**	**764.**	**161.**	**260.**	**869.**
Stddev	1.	1.7	11.	1.	5.	13.
%RSD	.551	1.96	1.40	.548	1.84	1.46
#1	125.	83.1	752.	160.	254.	854.
#2	125.	85.4	768.	161.	262.	878.
#3	127.	86.3	772.	162.	262.	874.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2878.3**
Stddev	27.2
%RSD	.94612
#1	2847.8
#2	2887.1
#3	2900.2

Sample Name: msds870201 Acquired: 11/22/2010 07:58:20 Type: Unk
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**125.**	**85.8**	**771.**	**162.**	**262.**	**886.**
Stddev	.	1.5	7.	1.	2.	5.
%RSD	.384	1.69	.848	.602	.775	.584
#1	125.	84.4	763.	162.	260.	881.
#2	125.	87.3	776.	162.	262.	888.
#3	126.	85.8	773.	163.	264.	891.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2901.5**
Stddev	11.7
%RSD	.40428
#1	2896.9
#2	2892.7
#3	2914.8

Sample Name: pdss870201 Acquired: 11/22/2010 08:00:53 Type: Unk
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**134.**	**85.1**	**456.**	**72.6**	**91.7**	**763.**
Stddev	.	.4	4.	.2	.8	7.
%RSD	.325	.495	.839	.281	.882	.858
#1	134.	85.6	457.	72.3	90.8	755.
#2	133.	85.0	452.	72.6	92.0	766.
#3	134.	84.8	459.	72.7	92.3	767.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2970.1**
Stddev	17.2
%RSD	.57901
#1	2951.2
#2	2984.8
#3	2974.3

Sample Name: 870202 Acquired: 11/22/2010 08:03:18 Type: Unk
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**27.9**	**1.26**	**467.**	**94.9**	**145.**	**813.**
Stddev	.2	.01	6.	.3	1.	6.
%RSD	.551	.976	1.33	.321	.929	.726
#1	27.7	1.25	461.	94.8	144.	810.
#2	28.0	1.26	473.	94.7	145.	810.
#3	28.0	1.27	469.	95.3	146.	820.

Int. Std.	Y_3203
Units	Cts/S
Avg	**3028.4**
Stddev	22.7
%RSD	.75021
#1	3003.2
#2	3034.7
#3	3047.3

Sample Name: ccv Acquired: 11/22/2010 08:05:50 Type: QC
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**94.7**	**89.7**	**-.247**	**-.148**	**-.411**	**.058**
Stddev	.1	.5	.078	.001	.006	.123
%RSD	.131	.553	31.7	.464	1.47	211.
#1	94.8	89.3	-.303	-.147	-.407	.145
#2	94.6	90.0	-.192	-.148	-.416	-.029
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	3216.9
Stddev	8.7
%RSD	.26965
#1	3210.7
#2	3223.0

Sample Name: ccb Acquired: 11/22/2010 08:08:18 Type: QC
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**.125**	**-.016**	**-.246**	**-.149**	**-.399**	**-.054**
Stddev	.009	.006	.015	.001	.004	.028
%RSD	6.80	37.7	6.27	.693	1.03	52.4
#1	.123	-.016	-.262	-.149	-.398	-.079
#2	.134	-.022	-.231	-.149	-.403	-.023
#3	.118	-.010	-.246	-.147	-.395	-.060
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	**3381.9**
Stddev	6.3
%RSD	.18726
#1	3374.8
#2	3383.9
#3	3387.0

Sample Name: 870203 Acquired: 11/22/2010 08:10:46 Type: Unk
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**24.0**	**.970**	**431.**	**71.8**	**87.9**	**755.**
Stddev	.2	.010	4.	.2	.7	4.
%RSD	.877	.990	1.02	.340	.752	.477
#1	23.8	.964	427.	71.6	87.4	751.
#2	24.2	.964	431.	72.1	87.7	755.
#3	24.0	.981	435.	71.8	88.6	758.

Int. Std.	Y_3203
Units	Cts/S
Avg	**3019.3**
Stddev	11.1
%RSD	.36794
#1	3006.6
#2	3027.2
#3	3024.1

Sample Name: 870204 Acquired: 11/22/2010 08:13:10 Type: Unk
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**32.5**	**2.21**	**450.**	**78.8**	**149.**	**736.**
Stddev	.1	.01	6.	.7	2.	7.
%RSD	.428	.372	1.39	.842	1.43	.992
#1	32.4	2.21	449.	78.2	147.	729.
#2	32.4	2.20	445.	78.7	149.	736.
#3	32.7	2.22	457.	79.5	152.	743.

Int. Std.	Y_3203
Units	Cts/S
Avg	**3032.1**
Stddev	28.2
%RSD	.93141
#1	3007.9
#2	3025.2
#3	3063.1

Sample Name: 870207 Acquired: 11/22/2010 08:15:33 Type: Unk
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**37.0**	**2.34**	**443.**	**88.0**	**158.**	**792.**
Stddev	.1	.02	2.	.2	2.	6.
%RSD	.183	.684	.464	.175	.952	.732
#1	37.1	2.36	445.	88.0	157.	787.
#2	36.9	2.34	441.	87.9	158.	791.
#3	37.0	2.33	443.	88.2	160.	799.

Int. Std.	Y_3203
Units	Cts/S
Avg	**3044.6**
Stddev	17.1
%RSD	.56241
#1	3031.2
#2	3038.7
#3	3063.9

Sample Name: 871184 Acquired: 11/22/2010 08:18:05 Type: Unk
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**22.7**	**3.02**	**289.**	**95.0**	**1600.**	**842.**
Stddev	.1	.00	2.	.4	16.	7.
%RSD	.511	.030	.659	.473	.998	.811
#1	22.6	3.02	287.	94.6	1580.	834.
#2	22.7	3.02	288.	95.5	1600.	847.
#3	22.9	3.02	291.	95.0	1610.	846.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2826.4**
Stddev	19.6
%RSD	.69493
#1	2803.8
#2	2837.6
#3	2837.9

Sample Name: 871186 Acquired: 11/22/2010 08:20:43 Type: Unk
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**18.5**	**3.42**	**124.**	**97.3**	**1480.**	**443.**
Stddev	.0	.02	1.	.5	16.	2.
%RSD	.162	.531	.865	.467	1.09	.499
#1	18.5	3.44	125.	97.1	1460.	442.
#2	18.6	3.40	123.	97.0	1490.	441.
#3	18.6	3.43	124.	97.8	1480.	445.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2919.2**
Stddev	17.4
%RSD	.59522
#1	2911.5
#2	2907.1
#3	2939.1

Sample Name: 871187 Acquired: 11/22/2010 08:23:23 Type: Unk
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**27.6**	**1.42**	**381.**	**79.5**	**904.**	**731.**
Stddev	.1	.01	5.	.5	6.	5.
%RSD	.266	.353	1.19	.584	.706	.658
#1	27.7	1.41	384.	79.0	906.	726.
#2	27.7	1.42	376.	79.8	909.	730.
#3	27.5	1.41	383.	79.7	897.	736.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2878.5**
Stddev	8.9
%RSD	.30762
#1	2873.3
#2	2873.6
#3	2888.8

Sample Name: 871188 Acquired: 11/22/2010 08:25:48 Type: Unk
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**53.9**	**12.7**	**321.**	**235.**	**3390.**	**892.**
Stddev	.1	.0	3.	1.	52.	8.
%RSD	.171	.067	.959	.599	1.53	.853
#1	54.0	12.7	319.	234.	3340.	884.
#2	54.0	12.7	324.	235.	3400.	892.
#3	53.8	12.7	319.	236.	3440.	900.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2582.3**
Stddev	26.0
%RSD	1.0084
#1	2552.7
#2	2592.7
#3	2601.6

Sample Name: 871189 Acquired: 11/22/2010 08:28:29 Type: Unk
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**24.0**	**2.51**	**280.**	**90.3**	**1430.**	**899.**
Stddev	.1	.01	2.	.4	20.	5.
%RSD	.300	.411	.873	.407	1.40	.524
#1	23.9	2.52	278.	90.3	1410.	895.
#2	24.1	2.52	283.	90.6	1430.	898.
#3	24.1	2.50	281.	89.9	1450.	904.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2856.4**
Stddev	9.5
%RSD	.33426
#1	2847.0
#2	2856.0
#3	2866.1

Sample Name: 871190 Acquired: 11/22/2010 08:31:03 Type: Unk
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**39.4**	**1.85**	**368.**	**82.1**	**705.**	**780.**
Stddev	.1	.01	3.	.6	4.	5.
%RSD	.330	.280	.789	.733	.609	.620
#1	39.3	1.85	370.	81.4	700.	775.
#2	39.3	1.84	365.	82.2	705.	779.
#3	39.5	1.85	370.	82.6	709.	785.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2953.6**
Stddev	27.0
%RSD	.91435
#1	2922.8
#2	2964.9
#3	2973.2

Sample Name: 871191 Acquired: 11/22/2010 08:33:27 Type: Unk
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**43.6**	**5.93**	**213.**	**129.**	**2790.**	**964.**
Stddev	.3	.05	1.	1.	19.	7.
%RSD	.704	.828	.391	.941	.664	.680
#1	43.3	5.88	212.	128.	2770.	957.
#2	43.8	5.94	214.	129.	2790.	963.
#3	43.8	5.98	213.	130.	2810.	970.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2645.7**
Stddev	23.4
%RSD	.88410
#1	2620.4
#2	2650.2
#3	2666.5

Sample Name: ccv Acquired: 11/22/2010 08:36:08 Type: QC
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**104.**	**100.**	**.329**	**.348**	**.279**	**.592**
Stddev	.	1.	.226	.002	.020	.072
%RSD	.253	.766	68.8	.667	7.07	12.1
#1	104.	101.	.223	.348	.301	.674
#2	104.	99.6	.176	.351	.271	.563
#3	104.	101.	.589	.346	.264	.540
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	**3301.1**
Stddev	18.5
%RSD	.56145
#1	3280.7
#2	3316.8
#3	3306.0

Sample Name: ccb Acquired: 11/22/2010 08:38:35 Type: QC
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**.110**	**-.019**	**-.142**	**-.147**	**-.132**	**.001**
Stddev	.022	.008	.140	.003	.026	.016
%RSD	19.8	43.6	98.4	1.81	19.3	1490.
#1	.130	-.029	-.006	-.144	-.103	-.003
#2	.113	-.012	-.286	-.148	-.148	.019
#3	.087	-.017	-.134	-.149	-.146	-.013
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	**3611.4**
Stddev	370.6
%RSD	10.260
#1	4034.3
#2	3343.6
#3	3456.4

Sample Name: 871192 Acquired: 11/22/2010 08:41:03 Type: Unk
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**26.1**	**1.56**	**299.**	**82.8**	**1240.**	**640.**
Stddev	.2	.01	3.	.6	11.	6.
%RSD	.654	.643	1.04	.719	.847	1.01
#1	26.1	1.55	297.	82.4	1230.	633.
#2	26.0	1.55	298.	82.5	1240.	642.
#3	26.3	1.57	303.	83.5	1250.	645.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2890.3**
Stddev	31.4
%RSD	1.0864
#1	2859.4
#2	2889.4
#3	2922.2

Sample Name: 871193 Acquired: 11/22/2010 08:43:35 Type: Unk
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**24.7**	**1.75**	**293.**	**105.**	**1230.**	**650.**
Stddev	.1	.01	1.	.	13.	4.
%RSD	.214	.298	.264	.331	1.02	.627
#1	24.7	1.76	293.	105.	1210.	646.
#2	24.6	1.75	294.	105.	1240.	653.
#3	24.8	1.75	292.	106.	1230.	653.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2925.3**
Stddev	15.5
%RSD	.52940
#1	2907.9
#2	2930.3
#3	2937.6

Sample Name: 871194 Acquired: 11/22/2010 08:46:16 Type: Unk
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**28.3**	**2.48**	**113.**	**61.9**	**476.**	**477.**
Stddev	.1	.01	1.	.2	4.	3.
%RSD	.421	.407	1.15	.398	.790	.592
#1	28.2	2.47	113.	61.7	474.	475.
#2	28.4	2.48	111.	62.2	473.	476.
#3	28.4	2.49	114.	61.9	480.	481.

Int. Std.	Y_3203
Units	Cts/S
Avg	**3096.2**
Stddev	25.8
%RSD	.83297
#1	3068.7
#2	3100.0
#3	3119.8

Sample Name: 871195 Acquired: 11/22/2010 08:48:41 Type: Unk
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**15.8**	**1.41**	**85.7**	**50.0**	**302.**	**523.**
Stddev	.0	.01	.9	.2	3.	4.
%RSD	.178	.552	1.03	.452	.828	.770
#1	15.8	1.42	85.8	49.7	299.	519.
#2	15.8	1.40	84.7	49.9	301.	522.
#3	15.8	1.40	86.5	50.2	304.	527.

Int. Std.	Y_3203
Units	Cts/S
Avg	**3118.0**
Stddev	20.5
%RSD	.65802
#1	3101.9
#2	3110.9
#3	3141.1

Sample Name: 871196 Acquired: 11/22/2010 08:51:05 Type: Unk
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**14.4**	**1.40**	**65.0**	**48.2**	**1230.**	**379.**
Stddev	.0	.00	.6	.2	24.	3.
%RSD	.288	.278	.885	.516	1.96	.839
#1	14.4	1.40	64.5	47.9	1200.	375.
#2	14.3	1.40	64.9	48.2	1240.	381.
#3	14.4	1.40	65.6	48.4	1250.	381.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2989.8**
Stddev	11.8
%RSD	.39455
#1	2977.3
#2	2991.4
#3	3000.7

Sample Name: 871197 Acquired: 11/22/2010 08:53:38 Type: Unk
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**16.5**	**2.80**	**98.5**	**89.6**	**1610.**	**443.**
Stddev	.1	.01	1.1	.4	10.	5.
%RSD	.462	.345	1.12	.404	.611	1.02
#1	16.4	2.79	97.4	89.2	1600.	438.
#2	16.5	2.80	99.6	89.7	1610.	444.
#3	16.5	2.81	98.6	89.9	1620.	447.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2910.5**
Stddev	32.3
%RSD	1.1107
#1	2912.9
#2	2877.0
#3	2941.5

Sample Name: 871198 Acquired: 11/22/2010 08:56:10 Type: Unk
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**38.3**	**4.64**	**285.**	**115.**	**1790.**	**928.**
Stddev	.1	.01	3.	1.	25.	5.
%RSD	.210	.319	1.20	.624	1.37	.585
#1	38.2	4.63	289.	115.	1760.	923.
#2	38.3	4.65	282.	116.	1810.	926.
#3	38.4	4.66	284.	116.	1810.	934.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2816.2**
Stddev	19.2
%RSD	.68004
#1	2794.1
#2	2826.9
#3	2827.6

Sample Name: ccv Acquired: 11/22/2010 09:06:42 Type: QC
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**103.**	**102.**	**.248**	**.385**	**.192**	**.576**
Stddev	1.	1.	.182	.004	.009	.050
%RSD	.844	1.03	73.4	1.09	4.86	8.62
#1	102.	102.	.337	.388	.195	.633
#2	104.	103.	.039	.380	.198	.558
#3	104.	101.	.367	.386	.181	.539
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	3291.6
Stddev	17.5
%RSD	.53048
#1	3271.9
#2	3304.9
#3	3298.2

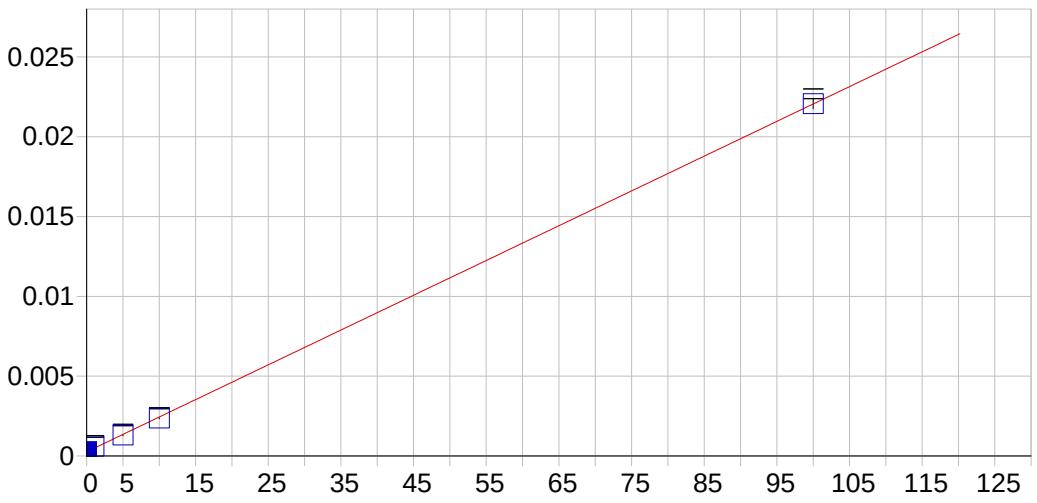
Sample Name: ccb Acquired: 11/22/2010 09:09:08 Type: QC
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**.100**	**-.016**	**-.204**	**-.129**	**-.305**	**-.042**
Stddev	.026	.007	.143	.004	.008	.023
%RSD	26.0	42.4	70.1	2.78	2.75	54.0
#1	.130	-.014	-.304	-.125	-.299	-.030
#2	.086	-.023	-.040	-.129	-.302	-.068
#3	.084	-.011	-.268	-.132	-.315	-.028
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	3429.2
Stddev	10.4
%RSD	.30404
#1	3417.2
#2	3434.3
#3	3436.0

Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)	Correlation	Std Error of Est	Predicted MDL	Predicted MQL
Ag 328.068 {103}	12/03/2010 13:24:08	12/03/2010 13:24:08	Linear	None	0.000262	0.000218	0.000000	1.000000	0.999969	0.000086	0.782889	2.609630
Ag 338.289 {100}	12/03/2010 12:40:18	12/03/2010 12:40:18	Linear	None	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	-1.000000	-1.000000
Al 167.079 {502}	12/03/2010 13:29:13	12/03/2010 13:29:13	Linear	None	0.000003	0.000002	0.000000	1.000000	0.999968	0.000009	2.185326	7.284421
Al 309.271 {109}	12/03/2010 13:46:44	12/03/2010 13:46:44	Linear	1/Conc	0.001036	0.000005	0.000000	1.000000	0.999458	0.000072	23.295930	77.653099
Al 396.152 { 85}	12/03/2010 13:58:49	12/03/2010 13:58:49	Full Fit	1/Conc	0.000191	0.000009	0.000000	1.020000	0.999904	0.000342	17.981099	59.936998
As 189.042 {479}	12/03/2010 13:34:58	12/03/2010 13:34:58	Linear	1/Conc	0.000001	0.000000	0.000000	1.000000	0.999916	0.000000	15.294384	50.981279
As 193.759 {474}	12/03/2010 13:29:13	12/03/2010 13:29:13	Linear	None	-0.000002	0.000000	0.000000	1.000000	0.999952	0.000002	15.455569	51.518562
Ba 455.403 { 74}	12/03/2010 13:24:08	12/03/2010 13:24:08	Linear	1/Conc	-0.000476	0.000490	0.000000	1.000000	0.999844	0.000004	0.515510	1.718368
Ba 493.409 { 68}	12/03/2010 13:34:58	12/03/2010 13:34:58	Linear	1/Conc	0.033137	0.000625	0.000000	1.000000	0.999983	0.000661	0.790795	2.635984
Be 234.861 {144}	12/03/2010 13:29:13	12/03/2010 13:29:13	Linear	None	-0.000100	0.000067	0.000000	1.000000	0.999997	0.000124	0.475079	1.583595
Be 313.042 {108}	12/03/2010 13:29:13	12/03/2010 13:29:13	Linear	1/Conc	0.000050	0.001028	0.000000	1.000000	0.999970	0.000005	0.108934	0.363113
Ca 317.933 {106}	12/03/2010 13:58:49	12/03/2010 13:58:49	Full Fit	1/Conc	0.003803	0.000015	-0.000000	0.990000	0.999965	0.000220	3.694505	12.315015
Ca 393.366 { 86}	12/06/2010 13:55:09	12/03/2010 13:29:13	Linear	None	0.011790	0.002655	0.000000	1.000000	1.000000	0.000000	0.054122	0.180407
Ca 396.847 { 85}	12/06/2010 13:58:31	12/03/2010 13:34:58	Linear	1/Conc	0.004308	0.000814	0.000000	1.000000	0.995910	0.003479	0.124558	0.415194
Cd 226.502 {449}	12/03/2010 13:29:13	12/03/2010 13:29:13	Linear	1/Conc	0.000006	0.000100	0.000000	1.000000	0.999812	0.000001	0.170774	0.569248
Cd 228.802 {447}	12/03/2010 13:29:13	12/03/2010 13:29:13	Linear	None	0.000031	0.000059	0.000000	1.000000	1.000000	0.000028	0.246135	0.820448
Co 228.616 {447}	12/03/2010 13:29:13	12/03/2010 13:29:13	Linear	1/Conc	-0.000003	0.000039	0.000000	1.000000	0.999959	0.000000	0.316067	1.053556
Co 238.892 {141}	12/03/2010 13:34:58	12/03/2010 13:34:58	Linear	1/Conc	0.000006	0.000006	0.000000	1.000000	0.999901	0.000014	5.341604	17.805347
Cr 267.716 {126}	12/03/2010 13:29:13	12/03/2010 13:29:13	Linear	1/Conc	-0.000011	0.000105	0.000000	1.000000	0.999532	0.000004	0.761934	2.539780
Cr 283.563 {119}	12/03/2010 13:40:52	12/03/2010 13:40:52	Linear	1/Conc	0.000069	0.000021	0.000000	1.000000	0.999991	0.000008	3.053421	10.178069
Cu 224.700 {450}	12/03/2010 13:34:58	12/03/2010 13:34:58	Linear	1/Conc	0.000086	0.000018	0.000000	1.000000	0.999892	0.000002	0.857844	2.859479
Cu 324.754 {104}	12/03/2010 13:40:52	12/03/2010 13:40:52	Linear	None	0.000943	0.000006	0.000000	1.000000	1.000000	0.000153	11.840714	39.469047
Cu 327.396 {103}	12/03/2010 13:29:13	12/03/2010 13:29:13	Linear	None	0.000881	0.000077	0.000000	1.000000	0.999927	0.000413	2.353007	7.843358
Fe 234.349 {144}	12/06/2010 14:05:25	12/03/2010 13:58:50	Full Fit	None	0.000059	0.000000	0.000000	1.030000	1.000000	0.000084	321.366440	1071.22146
Fe 239.562 {141}	12/06/2010 13:50:57	12/03/2010 13:34:58	Linear	None	0.000509	0.000003	0.000000	1.000000	0.999621	0.000712	6.935094	23.116979
Fe 259.940 {130}	12/06/2010 14:07:05	12/03/2010 13:29:14	Linear	1/Conc	0.000152	0.000021	0.000000	1.000000	0.996417	0.000011	2.352812	7.842707
Mg 279.079 {121}	12/06/2010 13:52:40	12/03/2010 13:58:50	Full Fit	None	0.000386	0.000001	0.000000	1.030000	1.000000	0.000256	61.906950	206.356499
Mg 279.553 {121}	12/03/2010 13:18:45	12/03/2010 13:18:45	Linear	None	0.000521	0.000354	0.000000	1.000000	0.999870	0.000151	0.085664	0.285547
Mg 280.270 {120}	12/06/2010 13:53:25	12/03/2010 13:34:58	Linear	1/Conc	0.000271	0.000216	0.000000	1.000000	0.996154	0.003446	0.184356	0.614520
Mn 257.610 {131}	12/03/2010 13:34:58	12/03/2010 13:34:58	Linear	1/Conc	0.000031	0.000116	0.000000	1.000000	0.999967	0.000004	0.544024	1.813415
Mn 259.373 {130}	12/03/2010 13:40:52	12/03/2010 13:40:52	Linear	1/Conc	-0.000007	0.000065	0.000000	1.000000	0.999918	0.000395	0.789048	2.630161
Mo 202.030 {467}	12/03/2010 13:29:14	12/03/2010 13:29:14	Linear	None	0.000004	0.000009	0.000000	1.000000	0.999999	0.000005	0.896640	2.988798
Mo 203.844 {465}	12/03/2010 13:29:14	12/03/2010 13:29:14	Linear	None	0.000008	0.000004	0.000000	1.000000	1.000000	0.000002	1.850950	6.169835
Mo 204.598 {465}	12/03/2010 13:34:58	12/03/2010 13:34:58	Linear	1/Conc	0.000003	0.000007	0.000000	1.000000	0.999949	0.000002	1.394092	4.646972
Ni 221.647 {452}	12/03/2010 13:34:58	12/03/2010 13:34:58	Linear	1/Conc	0.000004	0.000030	0.000000	1.000000	0.999895	0.000021	0.537311	1.791036
Ni 231.604 {445}	12/06/2010 14:31:10	12/03/2010 13:29:14	Linear	1/Conc	-0.000002	0.000028	0.000000	1.000000	0.999336	0.000002	0.494329	1.647764
Pb 216.999 {455}	12/03/2010 13:40:52	12/03/2010 13:40:52	Full Fit	None	0.000013	0.000001	0.000000	0.970000	1.000000	0.000000	10.791424	35.971414
Pb 220.353 {453}	12/03/2010 13:29:14	12/03/2010 13:29:14	Linear	1/Conc	-0.000010	0.000008	0.000000	1.000000	0.999804	0.000000	2.072715	6.909051
Sb 206.833 {463}	12/03/2010 13:34:58	12/03/2010 13:34:58	Linear	1/Conc	0.000002	0.000002	0.000000	1.000000	0.999963	0.000000	5.027101	16.757005
Sb 217.581 {455}	12/03/2010 13:34:59	12/03/2010 13:34:59	Linear	1/Conc	-0.000014	0.000001	0.000000	1.000000	0.998781	0.000000	22.755935	75.853116
Se 196.090 {472}	12/03/2010 13:34:59	12/03/2010 13:34:59	Linear	1/Conc	0.000008	0.000001	0.000000	1.000000	0.999175	0.000000	10.989014	36.630047
Se 206.279 {463}	12/03/2010 13:34:59	12/03/2010 13:34:59	Linear	None	0.000000	0.000000	0.000000	1.000000	0.999998	0.000003	54.697681	182.325602
Tl 190.856 {477}	12/03/2010 13:34:59	12/03/2010 13:34:59	Linear	1/Conc	-0.000006	0.000001	0.000000	1.000000	0.999550	0.000000	7.817368	26.057894
Tl 276.787 {122}	12/03/2010 13:34:59	12/03/2010 13:34:59	Linear	None	0.000022	0.000000	0.000000	1.000000	0.999986	0.000019	137.066887	456.889623

Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)	Correlation	Std Error of Est	Predicted MDL	Predicted MQL
V 290.882 {116}	12/03/2010 13:34:59	12/03/2010 13:34:59	Linear	1/Conc	0.001479	0.000132	0.000000	1.000000	0.999857	0.000406	0.817399	2.724663
V 292.402 {115}	12/03/2010 13:29:14	12/03/2010 13:29:14	Linear	None	-0.000027	0.000136	0.000000	1.000000	0.999999	0.000070	0.883468	2.944893
Zn 206.200 {463}	12/03/2010 13:40:52	12/03/2010 13:40:52	Full Fit	None	-0.000032	0.000024	-0.000000	0.970000	1.000000	0.000000	0.343458	1.144860
Zn 213.856 {458}	12/03/2010 13:29:14	12/03/2010 13:29:14	Linear	1/Conc	0.000116	0.000038	0.000000	1.000000	0.999957	0.000002	0.248361	0.827870
Y 360.073 { 94}*	12/03/2010 12:40:18	12/03/2010 12:40:18	Linear	None	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	-1.000000	-1.000000
B 249.773 {135}	12/03/2010 13:29:14	12/03/2010 13:29:14	Linear	None	0.000043	0.000007	0.000000	1.000000	0.999864	0.000072	6.303696	21.012320
Li 670.784 { 50}	12/03/2010 13:29:14	12/03/2010 13:29:14	Linear	None	0.001090	0.000179	0.000000	1.000000	0.999995	0.000244	2.062434	6.874779
Na 330.298 {102}	12/03/2010 13:46:44	12/03/2010 13:46:44	Linear	1/Conc	0.000011	0.000000	0.000000	1.000000	1.000000	0.000000	3383.86811	11279.5603
Si 251.611 {134}	12/03/2010 13:29:14	12/03/2010 13:29:14	Linear	None	0.000114	0.000000	0.000000	1.000000	1.000000	0.000000	575.029642	1916.76547
Sr 407.771 { 83}	12/03/2010 13:34:59	12/03/2010 13:34:59	Linear	1/Conc	-0.001611	0.001126	0.000000	1.000000	0.999644	0.000116	0.121208	0.404025
Ti 334.941 {101}	12/03/2010 13:29:14	12/03/2010 13:29:14	Linear	1/Conc	0.000091	0.000081	0.000000	1.000000	0.999912	0.000005	1.050606	3.502021

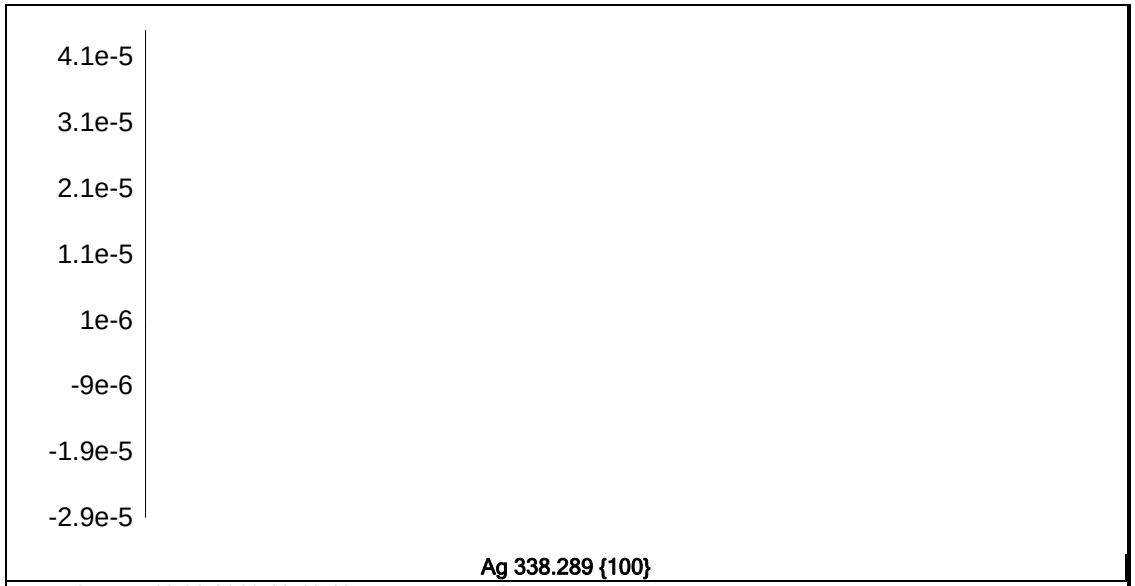


Ag 328.068 {103}

Date of Fit:	12/03/2010 13:24:08	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000262	Re-Slope:	1.000000
A1 (Gain):	0.000218	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999969	Status:	OK.
Std Error of Est:	0.000086		
Predicted MDL:	0.782889		
Predicted MQL:	2.609630		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.01178	-.012	.000	.00026	.000	1
CalibStd=100	100.00	100.04	.041	.041	.02206	.000	1
CalibStd=10	10.000	9.6377	-.362	-3.62	.00236	.000	1
CalibStd=1	1.0000	1.5368	.537	53.7	.00060	.000	1
CalibStd=5	5.0000	4.7962	-.204	-4.08	.00131	.000	1

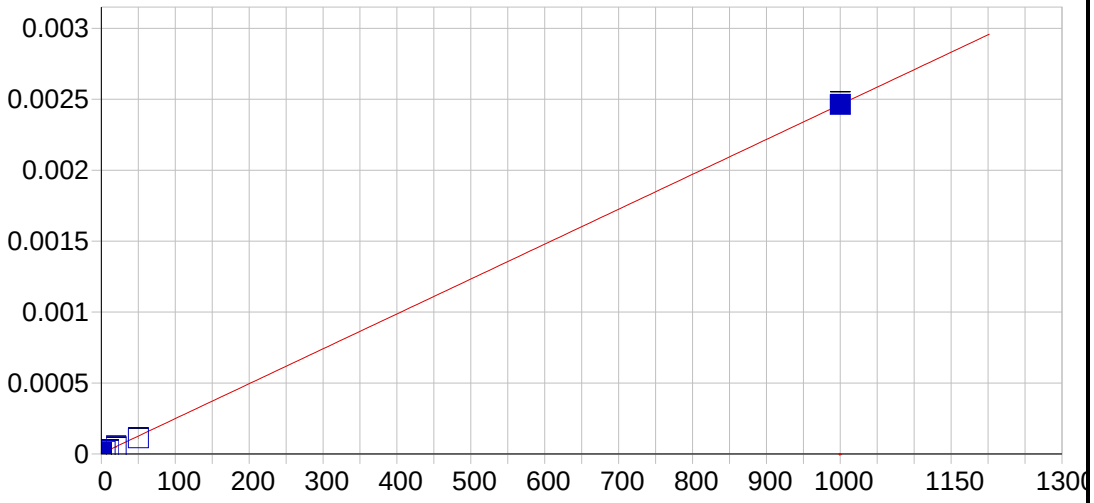


Ag 338.289 {100}

Date of Fit:	12/03/2010 12:40:18	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning Zero Gain
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00001	.000	1

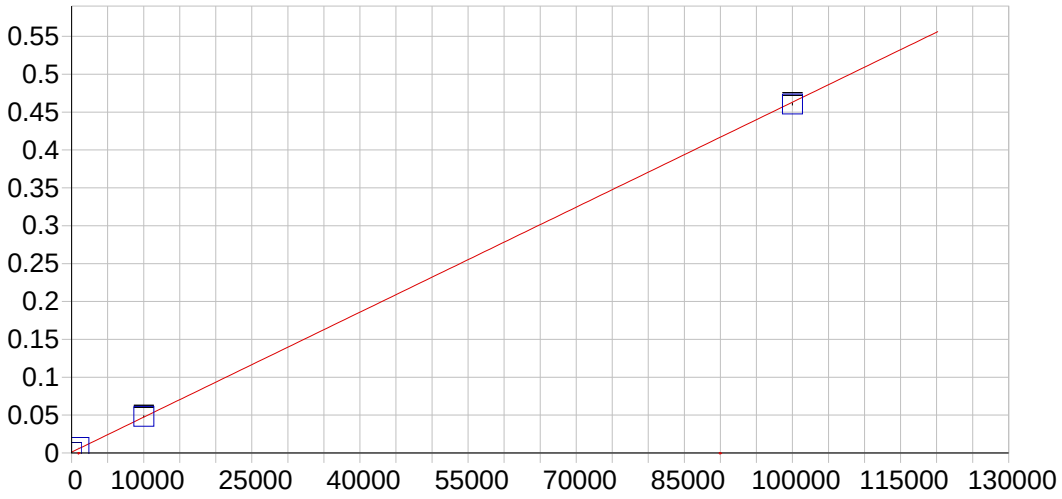


Al 167.079 {502}

Date of Fit:	12/03/2010 13:29:13	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000003	Re-Slope:	1.000000
A1 (Gain):	0.000002	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999968	Status:	OK.
Std Error of Est:	0.000009		
Predicted MDL:	2.185326		
Predicted MQL:	7.284421		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	3.0369	3.04	.000	.00001	.000	1
CalibStd=100	1000.0	1000.3	.286	.029	.00247	.000	1
CalibStd=20	20.000	18.978	-1.02	-5.11	.00005	.000	1
CalibStd=10	10.000	10.269	.269	2.69	.00003	.000	1
CalibStd=5	5.0000	8.1079	3.11	62.2	.00002	.000	1
CalibStd=50	50.000	44.322	-5.68	-11.4	.00011	.000	1

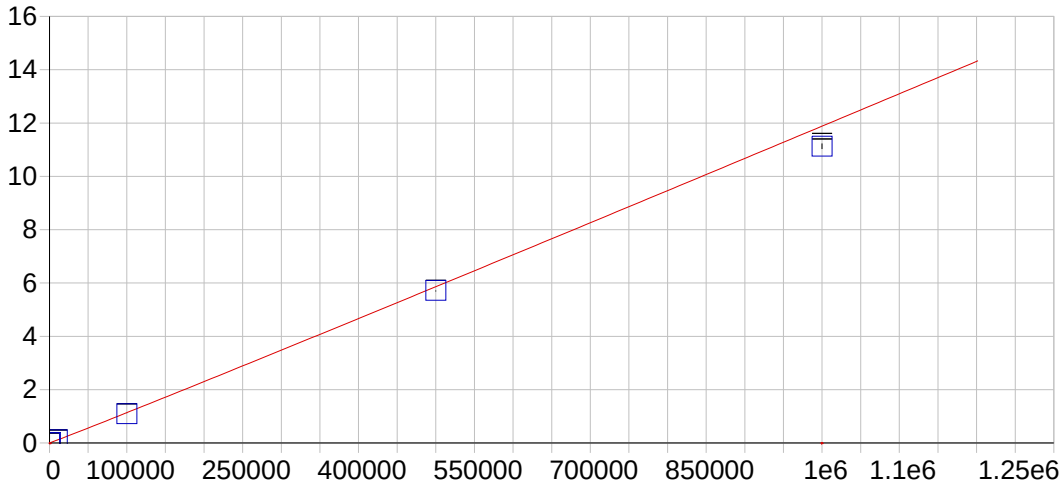


Al 309.271 {109}

Date of Fit:	12/03/2010 13:46:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001036	Re-Slope:	1.000000
A1 (Gain):	0.000005	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999458	Status:	OK.
Std Error of Est:	0.000072		
Predicted MDL:	23.295930		
Predicted MQL:	77.653099		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.35144	-.351	.000	.00103	.000	1
CalibStd=100	10000.	10212.	212.	2.12	.04822	.001	1
CalibStd=100	100000.	99453.	-547.	-.547	.46059	.002	1
CalibStd=100	1000.0	1335.8	336.	33.6	.00721	.000	1

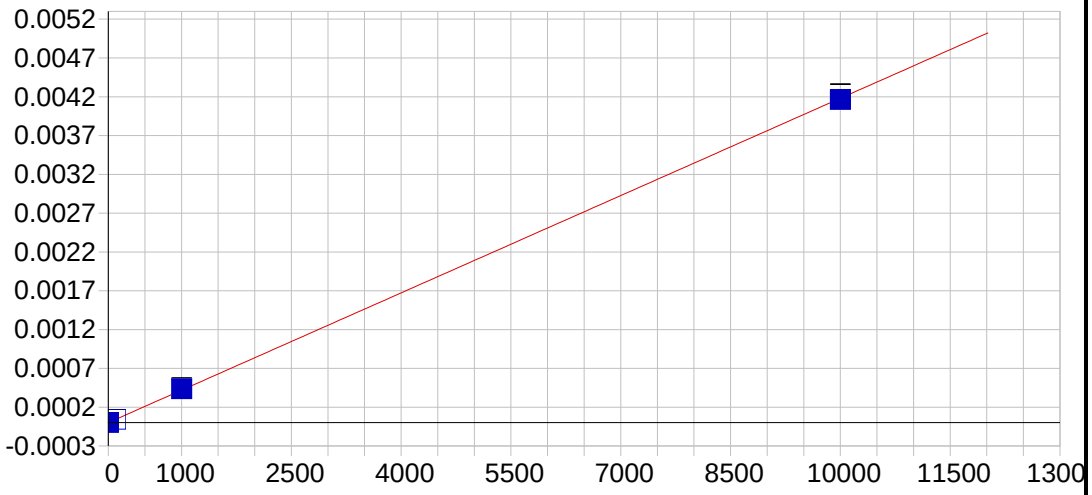


Al 396.152 { 85}

Date of Fit:	12/03/2010 13:58:49	Type of Fit:	Full Fit	Weighting:	1/Conc

A0 (Offset):	0.000191	Re-Slope:	1.000000
A1 (Gain):	0.000009	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.020000		
Correlation:	0.999904	Status:	OK.
Std Error of Est:	0.000342		
Predicted MDL:	17.981099		
Predicted MQL:	59.936998		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00019	.000	1
CalibStd=100	100000.	96538.	-3460.	-3.46	1.0950	.004	1
CalibStd-100	1000000.	937680.	-62300.	-6.23	11.129	.106	1
CalibStd=500	500000.	488420.	-11600.	-2.32	5.7217	.001	1
CalibStd=100	1000.0	1442.4	442.	44.2	.01523	.000	1
CalibStd=100	10000.	10415.	415.	4.15	.11316	.003	1

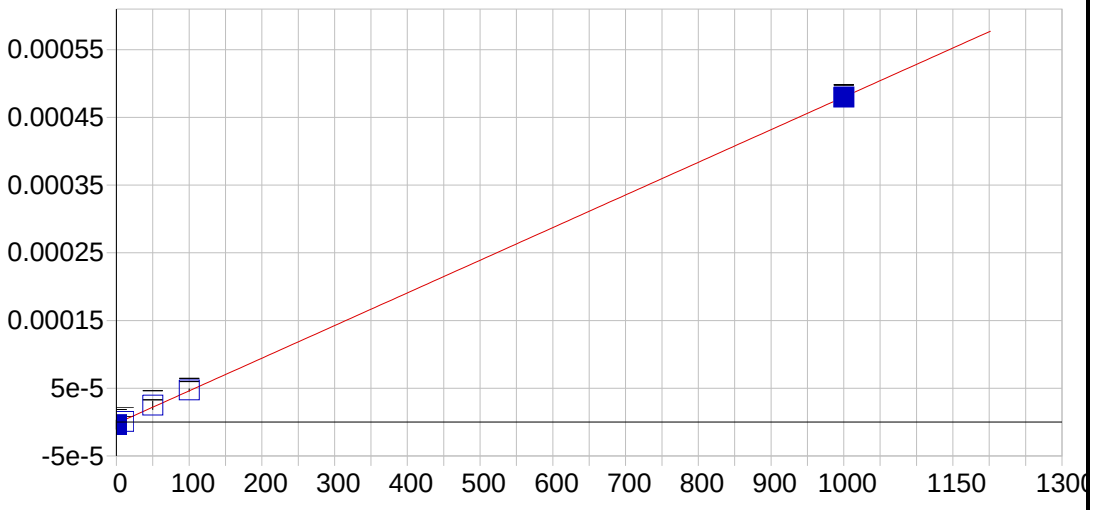


As 189.042 {479}

Date of Fit:	12/03/2010 13:34:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000001	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999916	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	15.294384		
Predicted MQL:	50.981279		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00434	-.004	.000	.00000	.000	1
CalibStd=100	1000.0	1041.0	41.0	4.10	.00044	.000	1
CalibStd=100	10000.	9958.4	-41.6	-.416	.00416	.000	1
CalibStd=100	100.00	100.66	.658	.658	.00004	.000	1

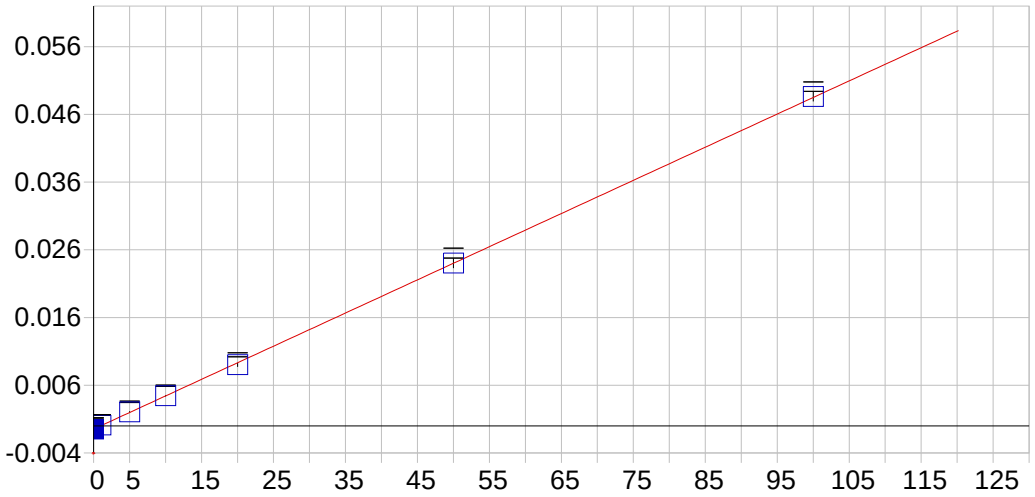


As 193.759 {474}

Date of Fit:	12/03/2010 13:29:13	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-0.000002	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999952	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	15.455569		
Predicted MQL:	51.518562		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-3.5778	-3.58	.000	.00000	.000	1
CalibStd=100	1000.0	999.50	-.498	-.050	.00048	.000	1
CalibStd=50	50.000	55.804	5.80	11.6	.00002	.000	1
CalibStd=10	10.000	5.7671	-4.23	-42.3	.00000	.000	1
CalibStd=100	100.00	102.50	2.50	2.50	.00005	.000	1

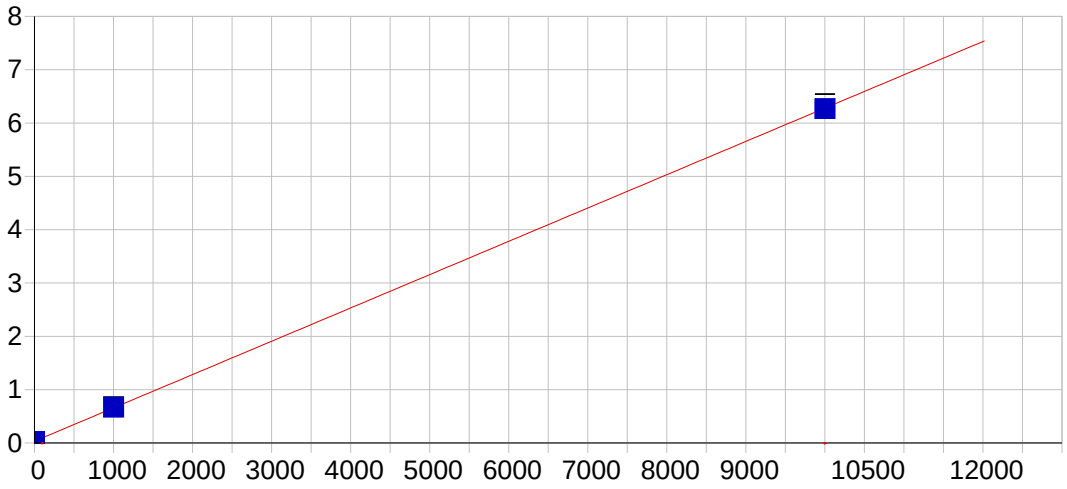


Ba 455.403 { 74}

Date of Fit:	12/03/2010 13:24:08	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000476	Re-Slope:	1.000000
A1 (Gain):	0.000490	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999844	Status:	OK.
Std Error of Est:	0.000004		
Predicted MDL:	0.515510		
Predicted MQL:	1.718368		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00019	.000	.000	-.00048	.000	1
CalibStd=50	50.000	50.020	.020	.040	.02402	.001	1
CalibStd=10	10.000	10.031	.031	.315	.00444	.000	1
CalibStd=20	20.000	19.371	-.629	-3.14	.00901	.000	1
CalibStd=100	100.00	100.23	.228	.228	.04861	.001	1
CalibStd=1	1.0000	1.1786	.179	17.9	.00010	.000	1
CalibStd=5	5.0000	5.1709	.171	3.42	.00206	.000	1

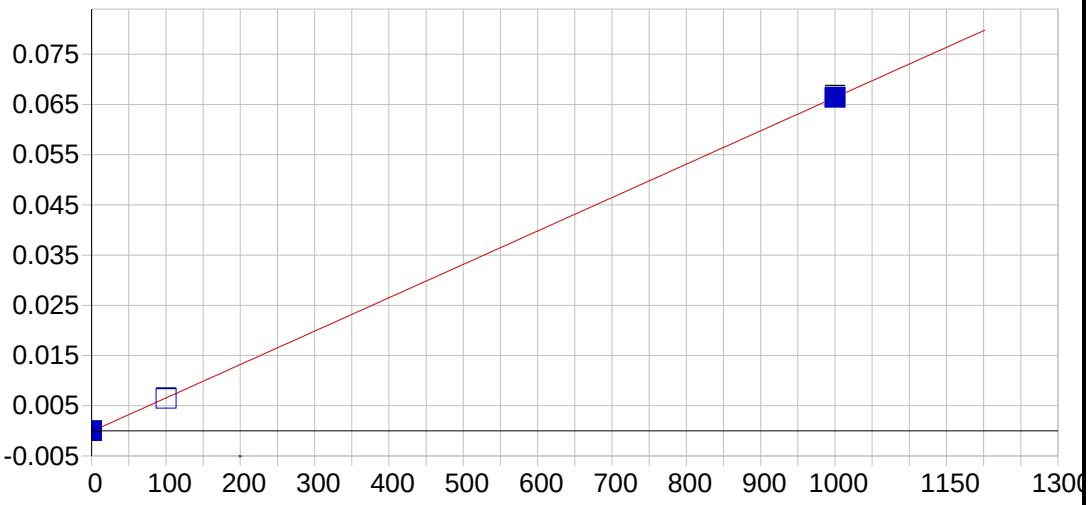


Ba 493.409 { 68}

Date of Fit:	12/03/2010 13:34:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.033137	Re-Slope:	1.000000
A1 (Gain):	0.000625	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999983	Status:	OK.
Std Error of Est:	0.000661		
Predicted MDL:	0.790795		
Predicted MQL:	2.635984		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.01657	-.017	.000	.03313	.000	1
CalibStd=100	1000.0	1018.4	18.4	1.84	.66932	.002	1
CalibStd=100	10000.	9981.6	-18.4	-.184	6.2684	.083	1

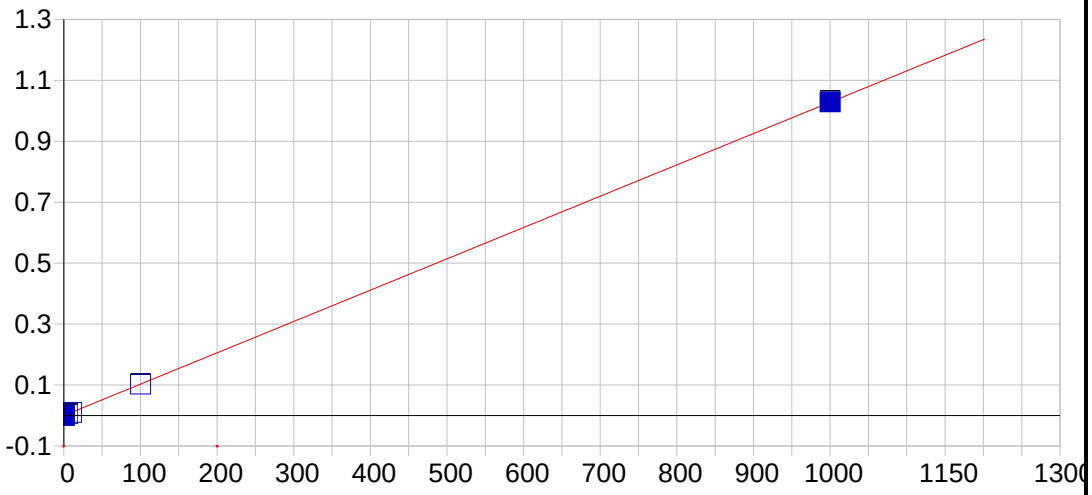


Be 234.861 {144}

Date of Fit:	12/03/2010 13:29:13	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-0.000100	Re-Slope:	1.000000
A1 (Gain):	0.000067	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999997	Status:	OK.
Std Error of Est:	0.000124		
Predicted MDL:	0.475079		
Predicted MQL:	1.583595		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	1.2448	1.24	.000	-.00002	.000	1
CalibStd=100	1000.0	1000.1	.138	.014	.06643	.000	1
CalibStd=100	100.00	98.617	-1.38	-1.38	.00646	.000	1

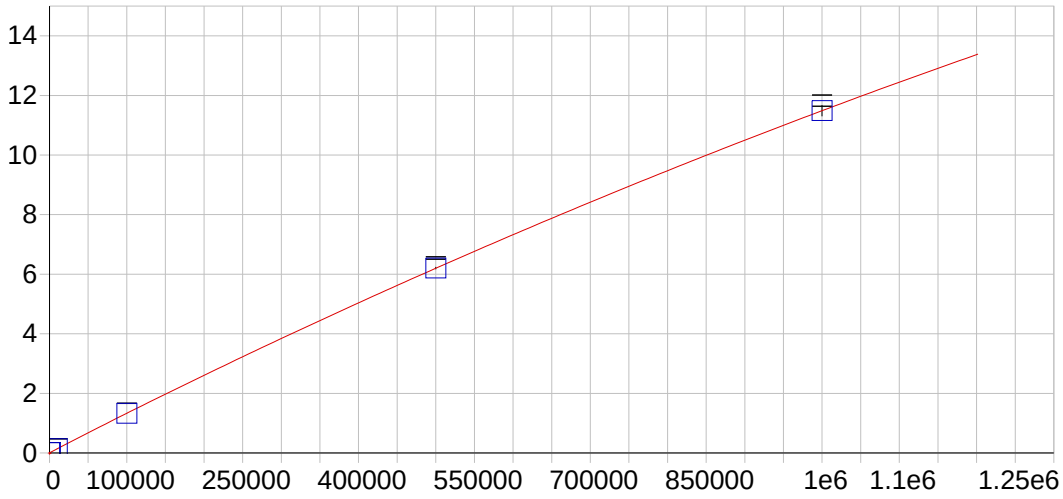


Be 313.042 {108}

Date of Fit:	12/03/2010 13:29:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000050	Re-Slope:	1.000000
A1 (Gain):	0.001028	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999970	Status:	OK.
Std Error of Est:	0.000005		
Predicted MDL:	0.108934		
Predicted MQL:	0.363113		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00005	.000	.000	.00005	.000	1
CalibStd=10	10.000	9.4825	-.518	-5.18	.00980	.000	1
CalibStd=100	100.00	99.606	-.394	-.394	.10245	.001	1
CalibStd=0.5	.50000	.63447	.134	26.9	.00070	.000	1
CalibStd=5	5.0000	4.9422	-.058	-1.16	.00513	.000	1
CalibStd=0.2	.25000	.24993	.000	-.028	.00031	.000	1
CalibStd=100	1000.0	1000.8	.835	.084	1.0289	.004	1

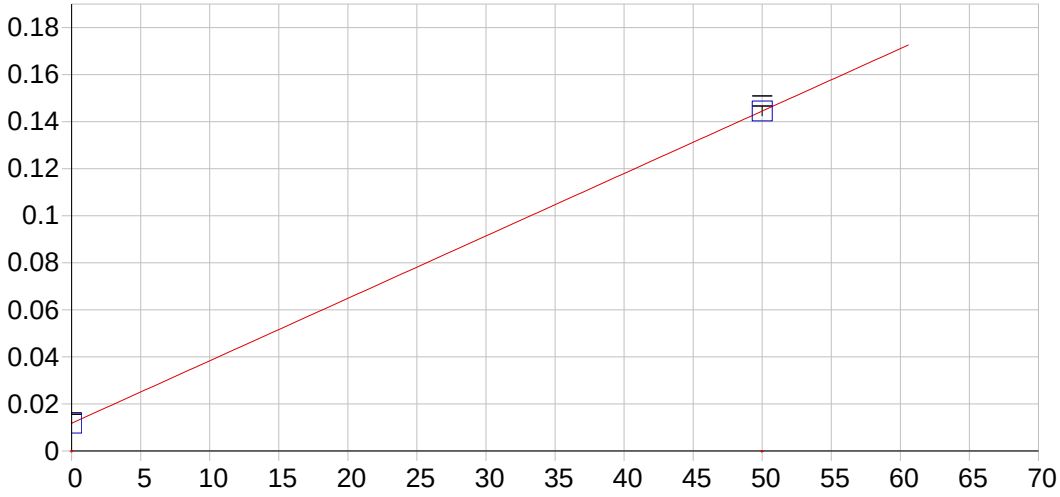


Ca 317.933 {106}

Date of Fit:	12/03/2010 13:58:49	Type of Fit:	Full Fit	Weighting:	1/Conc

A0 (Offset):	0.003803	Re-Slope:	1.000000
A1 (Gain):	0.000015	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	0.990000		
Correlation:	0.999965	Status:	OK.
Std Error of Est:	0.000220		
Predicted MDL:	3.694505		
Predicted MQL:	12.315015		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00380	.000	1
CalibStd=100	10000.	9817.8	-182.	-1.82	.13870	.004	1
CalibStd=100	100000.	99603.	-397.	-.397	1.3256	.005	1
CalibStd=500	500000.	500550.	546.	.109	6.2054	.041	1
CalibStd-100	1000000.	999730.	-267.	-.027	11.486	.187	1
CalibStd=100	1000.0	1280.0	280.	28.0	.02177	.000	1

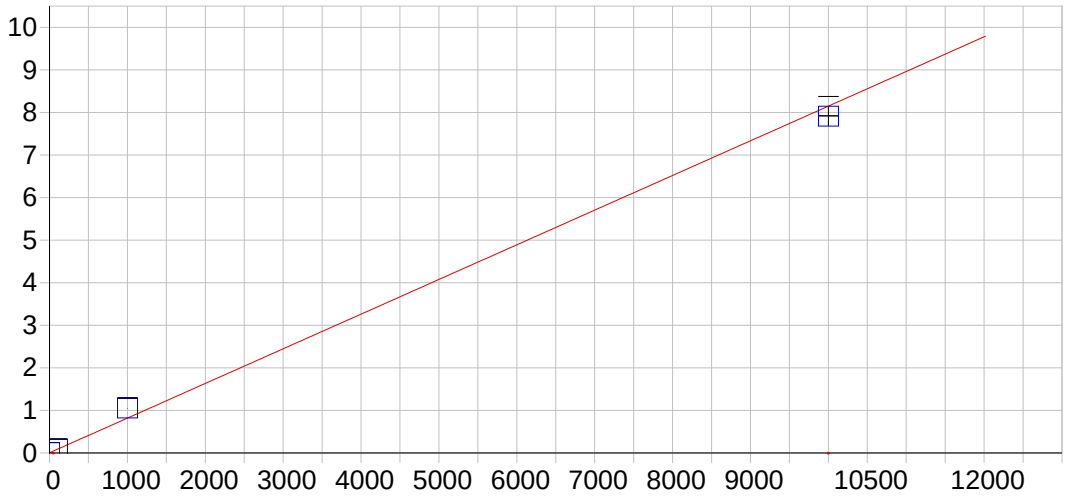


Ca 393.366 { 86}

Date of Fit:	12/06/2010 13:55:09	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.011790	Re-Slope:	1.000000
A1 (Gain):	0.002655	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.054122		
Predicted MQL:	0.180407		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.01179	.000	1
CalibStd=50	50.000	50.000	.000	.000	.14452	.002	1

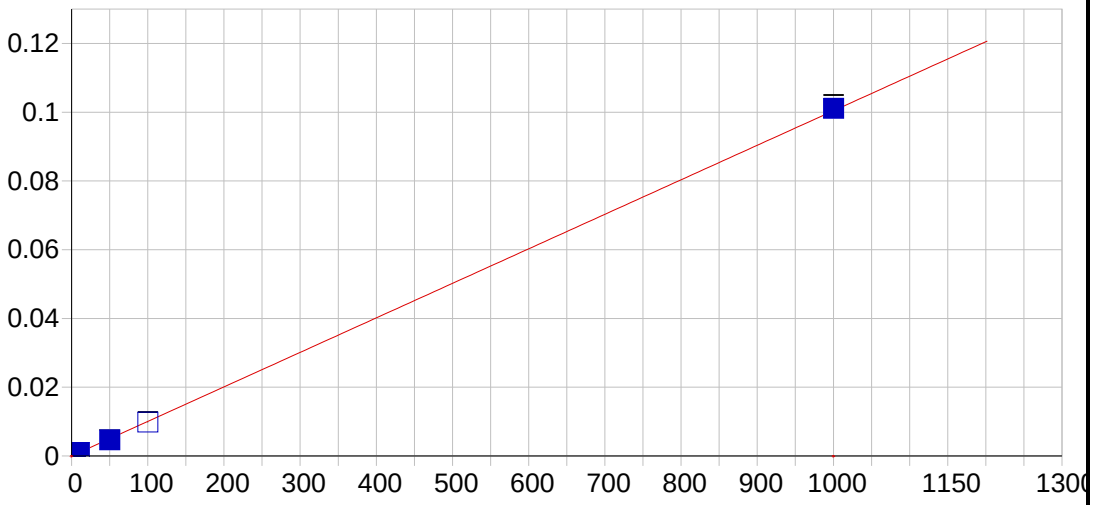


Ca 396.847 { 85}

Date of Fit:	12/06/2010 13:58:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004308	Re-Slope:	1.000000
A1 (Gain):	0.000814	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.995910	Status:	OK.
Std Error of Est:	0.003479		
Predicted MDL:	0.124558		
Predicted MQL:	0.415194		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.03263	-.033	.000	.00428	.000	1
CalibStd=100	10000.	9706.3	-294.	-2.94	7.9099	.227	1
CalibStd=100	100.00	106.89	6.89	6.89	.09136	.001	1
CalibStd=100	1000.0	1286.8	287.	28.7	1.0524	.003	1

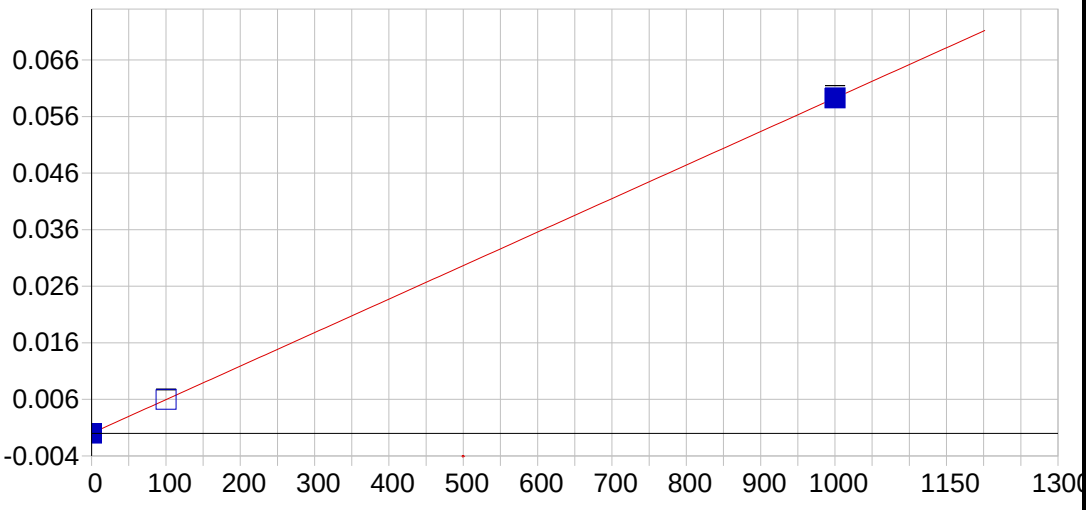


Cd 226.502 {449}

Date of Fit:	12/03/2010 13:29:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000006	Re-Slope:	1.000000
A1 (Gain):	0.000100	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999812	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	0.170774		
Predicted MQL:	0.569248		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00015	.000	.000	.00001	.000	1
CalibStd=50	50.000	46.349	-3.65	-7.30	.00466	.000	1
CalibStd=1	1.0000	.86191	-.138	-13.8	.00009	.000	1
CalibStd=0.5	.50000	.35253	-.147	-29.5	.00004	.000	1
CalibStd=5	5.0000	4.8804	-.120	-2.39	.00050	.000	1
CalibStd=0.2	.25000	.24999	.000	-.005	.00003	.000	1
CalibStd=100	100.00	97.807	-2.19	-2.19	.00983	.000	1
CalibStd=10	10.000	9.6280	-.372	-3.72	.00097	.000	1
CalibStd=100	1000.0	1006.6	6.62	.662	.10109	.001	1

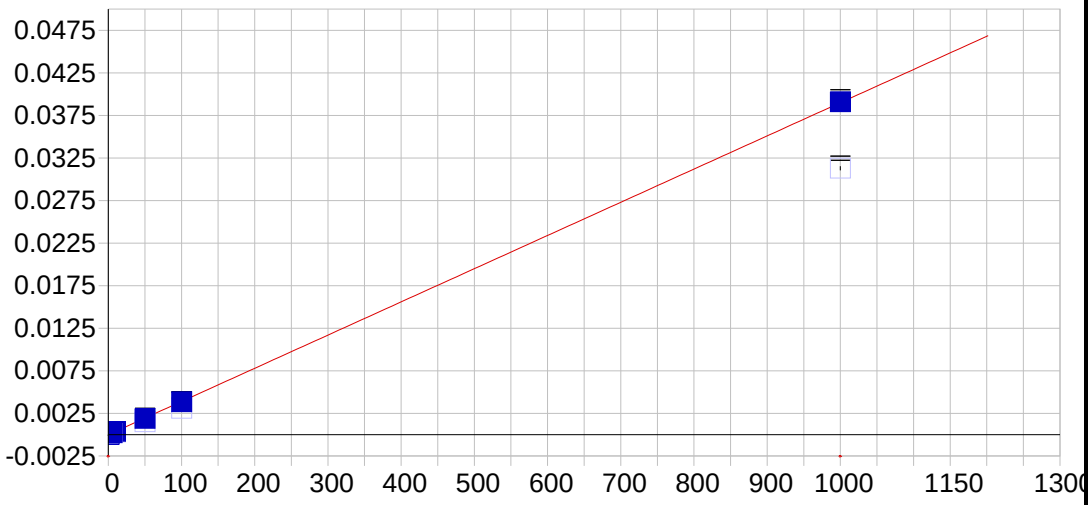


Cd 228.802 {447}

Date of Fit:	12/03/2010 13:29:13	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000031	Re-Slope:	1.000000
A1 (Gain):	0.000059	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000028		
Predicted MDL:	0.246135		
Predicted MQL:	0.820448		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.31870	-.319	.000	.00001	.000	1
CalibStd=100	1000.0	999.96	-.035	-.004	.05927	.000	1
CalibStd=100	100.00	100.35	.354	.354	.00598	.000	1

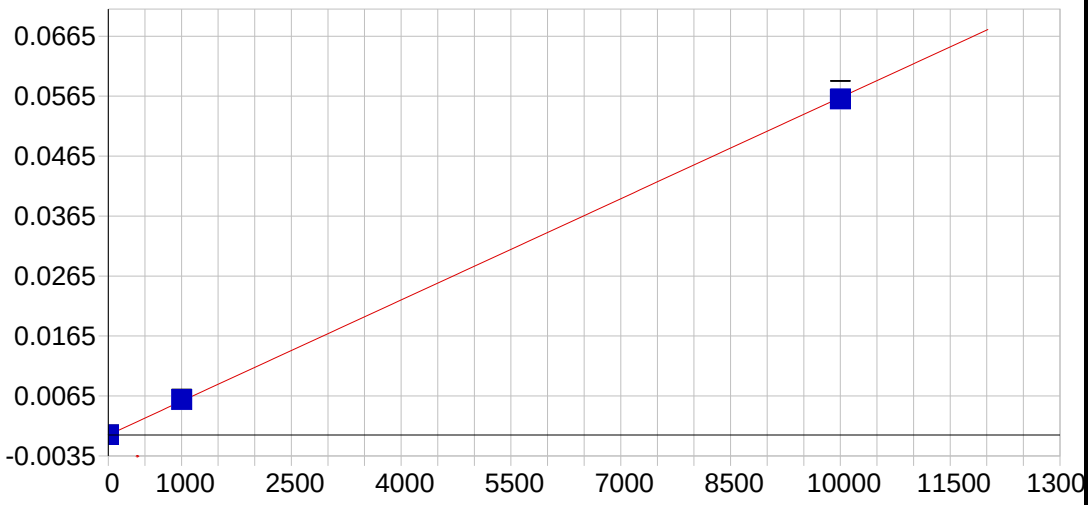


Co 228.616 {447}

Date of Fit:	12/03/2010 13:29:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000003	Re-Slope:	1.000000
A1 (Gain):	0.000039	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999959	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.316067		
Predicted MQL:	1.053556		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00004	.000	.000	.00000	.000	1
CalibStd=50	50.000	48.678	-1.32	-2.64	.00151	.000	1
CalibStd=10	10.000	9.8795	-.120	-1.20	.00030	.000	1
CalibStd=5	5.0000	5.0604	.060	1.21	.00016	.000	1
CalibStd=1	1.0000	1.0719	.072	7.19	.00004	.000	1
CalibStd=100	100.00	98.863	-1.14	-1.14	.00307	.000	1
CalibStd=100	1000.0	1002.4	2.43	.243	.03130	.000	1

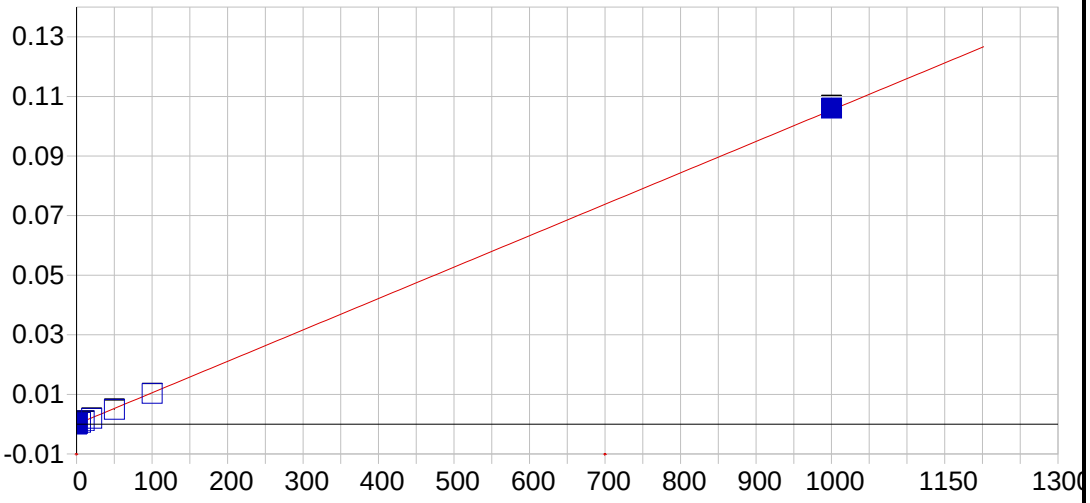


Co 238.892 {141}

Date of Fit:	12/03/2010 13:34:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000006	Re-Slope:	1.000000
A1 (Gain):	0.000006	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999901	Status:	OK.
Std Error of Est:	0.000014		
Predicted MDL:	5.341604		
Predicted MQL:	17.805347		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.03992	-.040	.000	.00001	.000	1
CalibStd=100	1000.0	1044.4	44.4	4.44	.00588	.000	1
CalibStd=100	10000.	9955.6	-44.4	-.444	.05597	.001	1

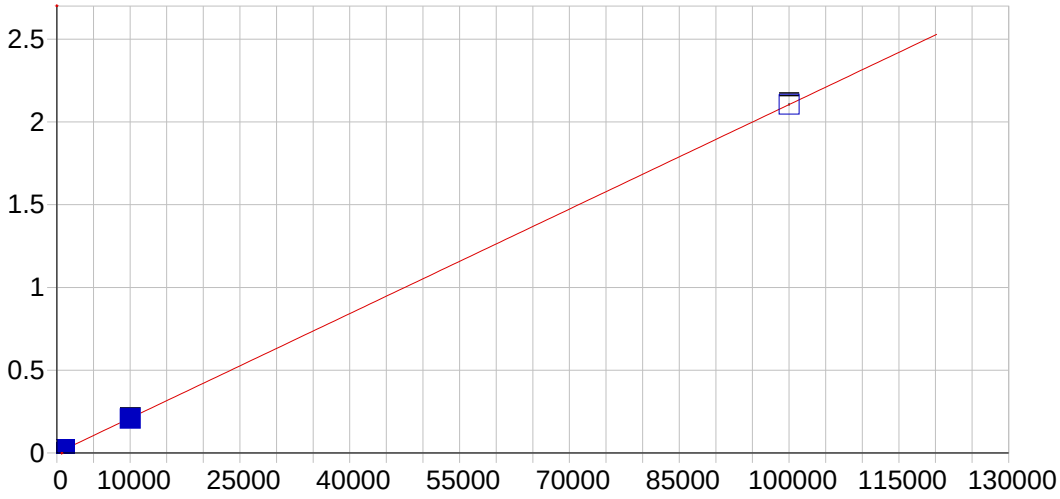


Cr 267.716 {126}

Date of Fit:	12/03/2010 13:29:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000011	Re-Slope:	1.000000
A1 (Gain):	0.000105	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999532	Status:	OK.
Std Error of Est:	0.000004		
Predicted MDL:	0.761934		
Predicted MQL:	2.539780		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00076	-.001	.000	-.00001	.000	1
CalibStd=10	10.000	10.064	.064	.636	.00105	.000	1
CalibStd=5	5.0000	5.6027	.603	12.1	.00058	.000	1
CalibStd=1	1.0000	1.7899	.790	79.0	.00018	.000	1
CalibStd=50	50.000	46.736	-3.26	-6.53	.00492	.000	1
CalibStd=100	1000.0	1005.7	5.72	.572	.10603	.001	1
CalibStd=20	20.000	18.531	-1.47	-7.35	.00194	.000	1
CalibStd=100	100.00	97.562	-2.44	-2.44	.01028	.000	1

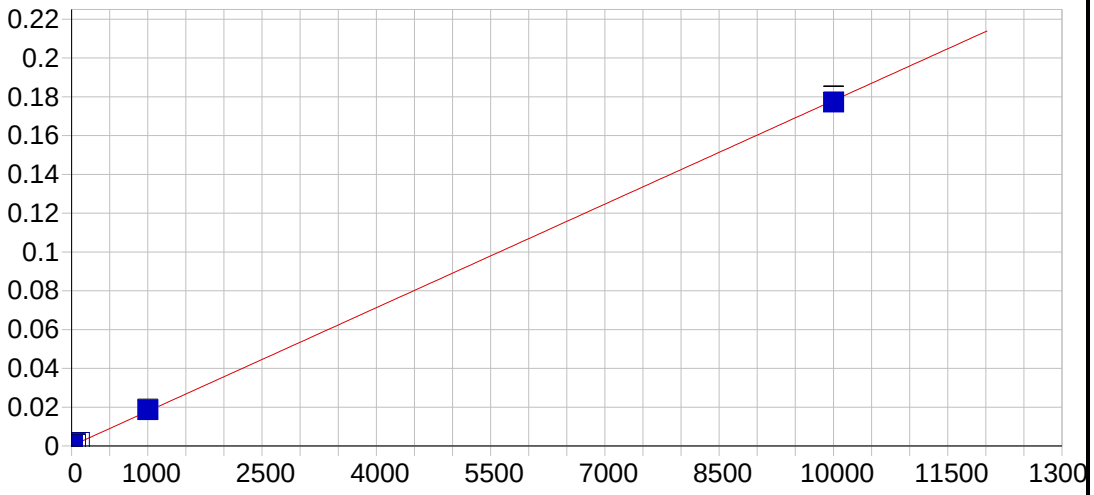


Cr 283.563 {119}

Date of Fit:	12/03/2010 13:40:52	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000069	Re-Slope:	1.000000
A1 (Gain):	0.000021	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999991	Status:	OK.
Std Error of Est:	0.000008		
Predicted MDL:	3.053421		
Predicted MQL:	10.178069		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00230	-.002	.000	.00007	.000	1
CalibStd=50	50.000	50.436	.436	.872	.00113	.000	1
CalibStd=100	100.00	101.57	1.57	1.57	.00221	.000	1
CalibStd=100	1000.0	1030.6	30.6	3.06	.02180	.000	1
CalibStd=100	10000.	9902.3	-97.7	-.977	.20884	.005	1
CalibStd-100	100000.	100070.	65.2	.065	2.1061	.008	1

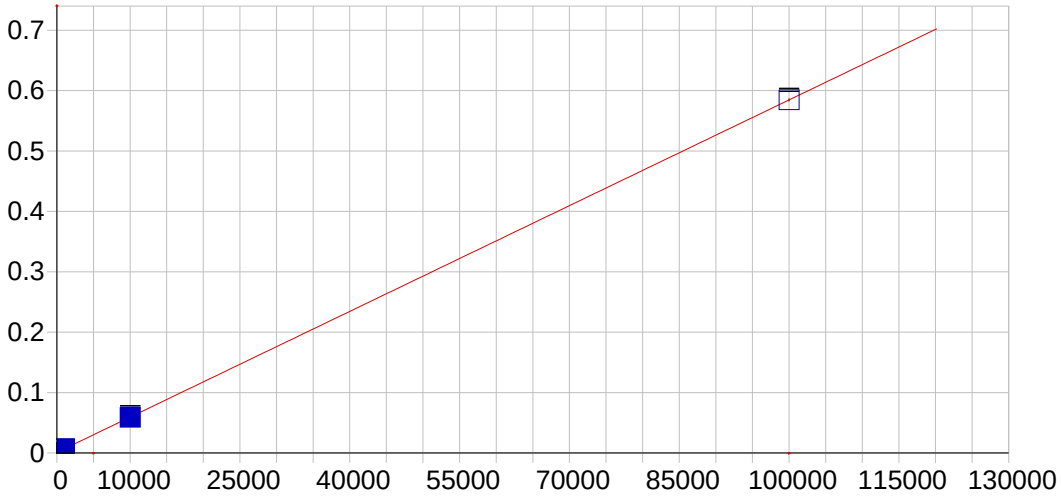


Cu 224.700 {450}

Date of Fit:	12/03/2010 13:34:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000086	Re-Slope:	1.000000
A1 (Gain):	0.000018	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999892	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	0.857844		
Predicted MQL:	2.859479		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00072	-.001	.000	.00009	.000	1
CalibStd=100	1000.0	1044.1	44.1	4.41	.01867	.000	1
CalibStd=50	50.000	49.725	-.275	-.550	.00097	.000	1
CalibStd=100	100.00	103.70	3.70	3.70	.00193	.000	1
CalibStd=5	5.0000	5.6288	.629	12.6	.00019	.000	1
CalibStd=10	10.000	9.4732	-.527	-5.27	.00025	.000	1
CalibStd=100	10000.	9952.4	-47.6	-.476	.17724	.003	1

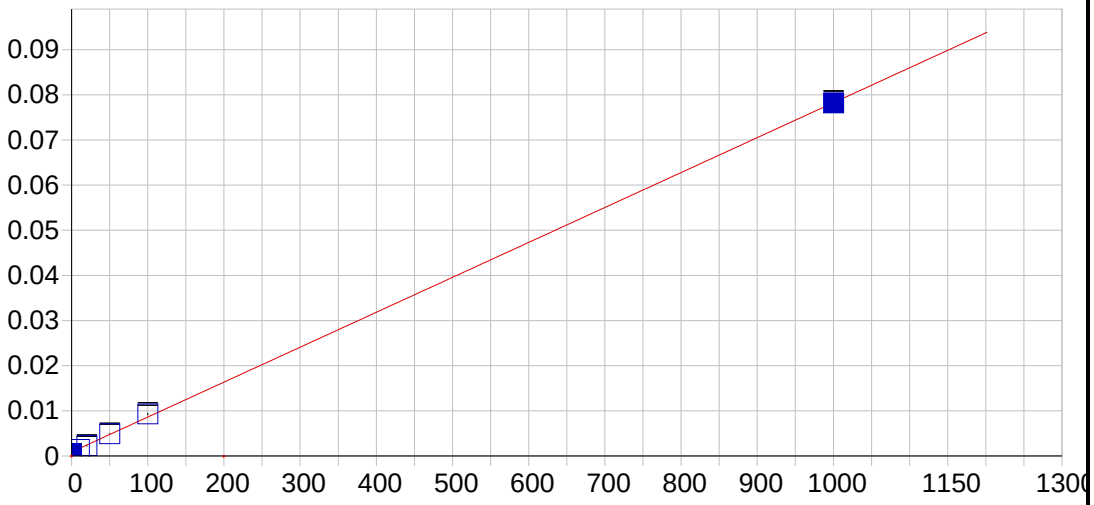


Cu 324.754 {104}

Date of Fit:	12/03/2010 13:40:52	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000943	Re-Slope:	1.000000
A1 (Gain):	0.000006	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000153		
Predicted MDL:	11.840714		
Predicted MQL:	39.469047		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	29.568	29.6	.000	.00112	.000	1
CalibStd=100	10000.	9983.0	-17.0	-.170	.05921	.002	1
CalibStd-100	100000.	100000.	1.85	.002	.58463	.002	1
CalibStd=100	1000.0	985.62	-14.4	-1.44	.00670	.000	1

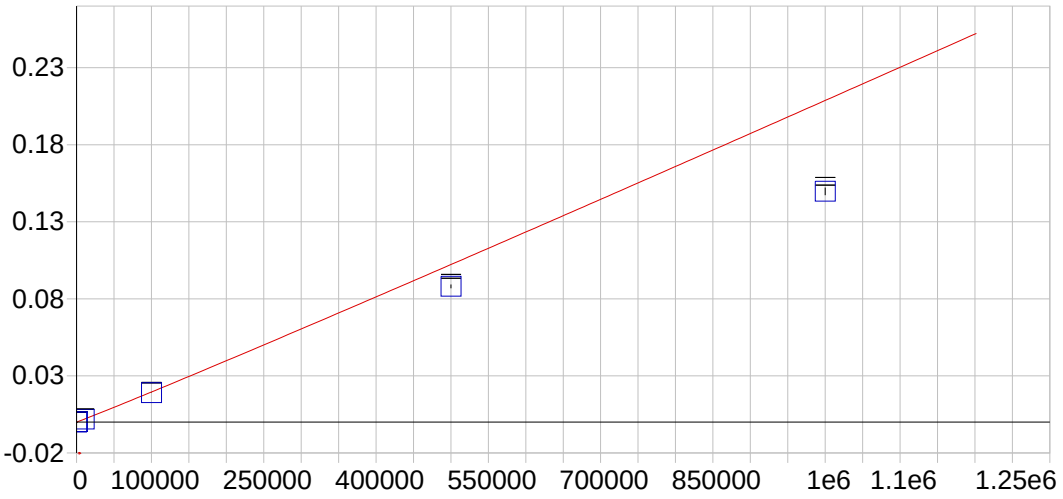


Cu 327.396 {103}

Date of Fit:	12/03/2010 13:29:13	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000881	Re-Slope:	1.000000
A1 (Gain):	0.000077	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999927	Status:	OK.
Std Error of Est:	0.000413		
Predicted MDL:	2.353007		
Predicted MQL:	7.843358		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-4.8142	-4.81	.000	.00051	.000	1
CalibStd=20	20.000	18.110	-1.89	-9.45	.00228	.000	1
CalibStd=50	50.000	52.004	2.00	4.01	.00490	.000	1
CalibStd=100	100.00	108.57	8.57	8.57	.00928	.000	1
CalibStd=10	10.000	7.0220	-2.98	-29.8	.00142	.000	1
CalibStd=100	1000.0	999.11	-.889	-.089	.07819	.000	1

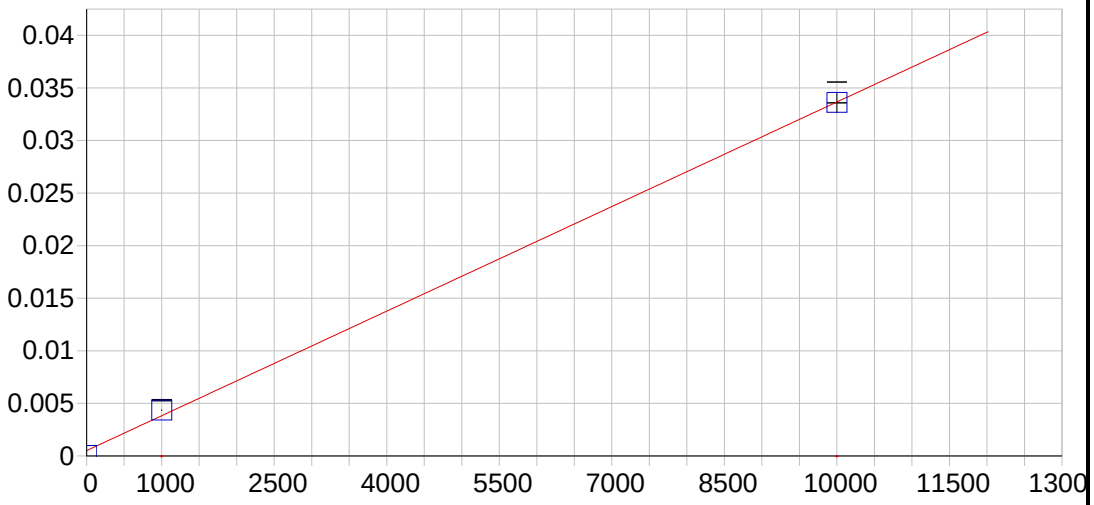


Fe 234.349 {144}

Date of Fit:	12/06/2010 14:05:25	Type of Fit:	Full Fit	Weighting:	None

A0 (Offset):	0.000059	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.030000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000084		
Predicted MDL:	321.366440		
Predicted MQL:	1071.221466		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00003	.000	1
CalibStd=100	10000.	10071.	70.7	.707	.00189	.000	1
CalibStd=500	500000.	432560.	-67400.	-13.5	.08809	.001	1
CalibStd=100	100000.	97786.	-2210.	-2.21	.01909	.000	1
CalibStd-100	1000000.	724380.	-276000.	-27.6	.14978	.002	1
CalibStd=100	1000.0	1118.9	119.	11.9	.00025	.000	1

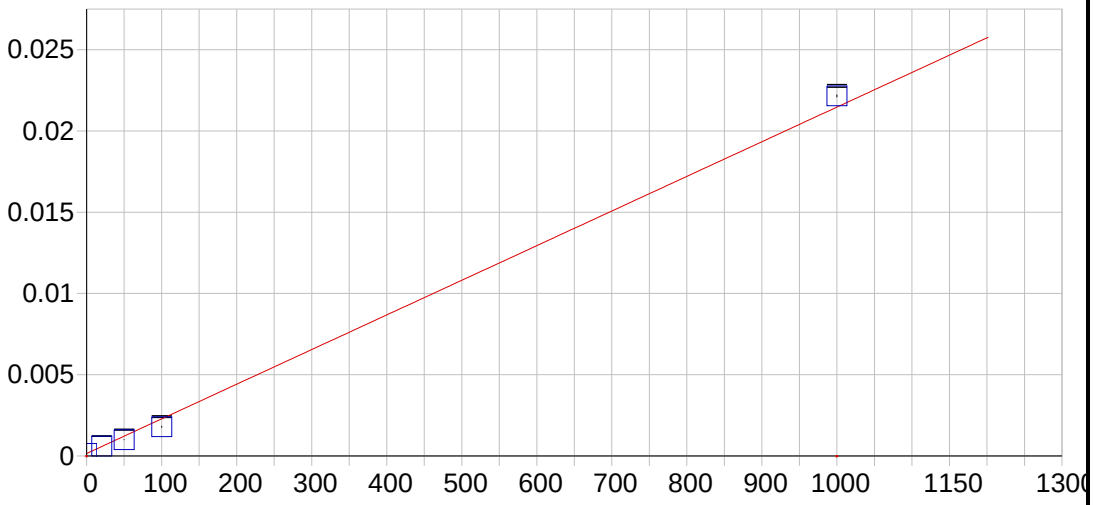


Fe 239.562 {141}

Date of Fit:	12/06/2010 13:50:57	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000509	Re-Slope:	1.000000
A1 (Gain):	0.000003	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999621	Status:	OK.
Std Error of Est:	0.000712		
Predicted MDL:	6.935094		
Predicted MQL:	23.116979		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-143.19	-143.	.000	.00003	.000	1
CalibStd=100	1000.0	1159.1	159.	15.9	.00435	.000	1
CalibStd=100	10000.	9984.1	-15.9	-.159	.03361	.001	1

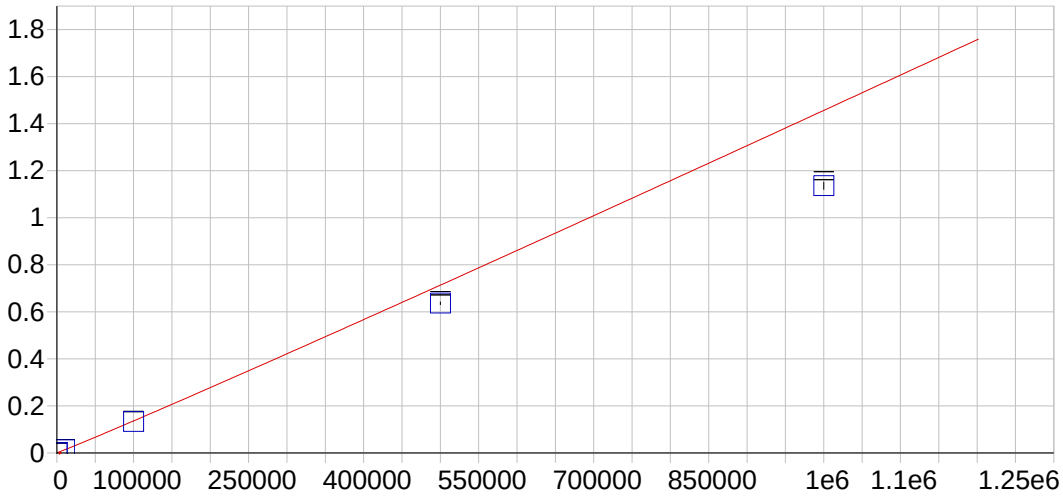


Fe 259.940 {130}

Date of Fit:	12/06/2010 14:07:05	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000152	Re-Slope:	1.000000
A1 (Gain):	0.000021	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.996417	Status:	OK.
Std Error of Est:	0.000011		
Predicted MDL:	2.352812		
Predicted MQL:	7.842707		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00723	.007	.000	.00015	.000	1
CalibStd=100	1000.0	1032.3	32.3	3.23	.02216	.000	1
CalibStd=50	50.000	39.709	-10.3	-20.6	.00100	.000	1
CalibStd=100	100.00	77.134	-22.9	-22.9	.00180	.000	1
CalibStd=20	20.000	20.811	.811	4.05	.00060	.000	1

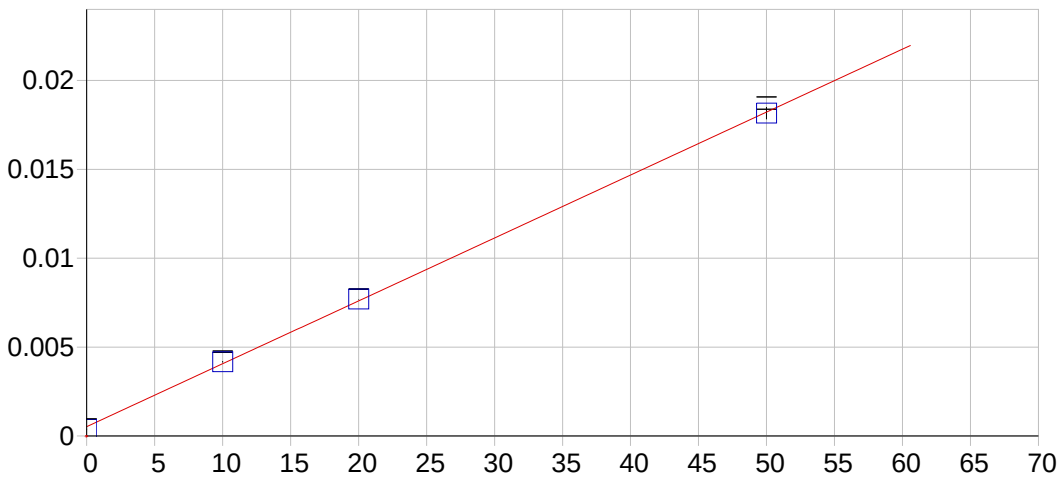


Mg 279.079 {121}

Date of Fit:	12/06/2010 13:52:40	Type of Fit:	Full Fit	Weighting:	None

A0 (Offset):	0.000386	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.030000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000256		
Predicted MDL:	61.906950		
Predicted MQL:	206.356499		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00008	.000	1
CalibStd=100	100000.	98064.	-1940.	-1.94	.13355	.001	1
CalibStd=500	500000.	447620.	-52400.	-10.5	.63655	.007	1
CalibStd=100	10000.	10078.	77.7	.777	.01317	.000	1
CalibStd-100	1000000.	785760.	-214000.	-21.4	1.1361	.017	1
CalibStd=100	1000.0	1101.0	101.	10.1	.00169	.000	1

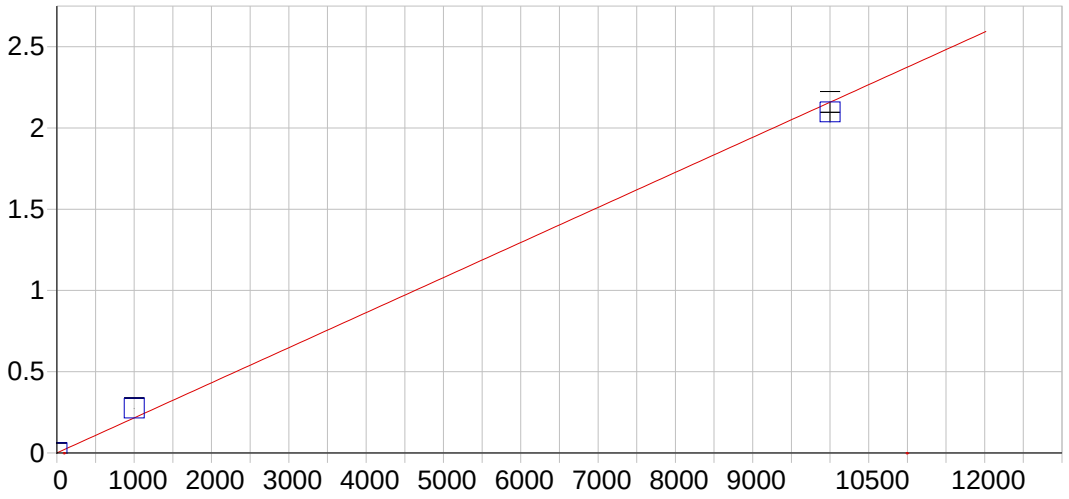


Mg 279.553 {121}

Date of Fit:	12/03/2010 13:18:45	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000521	Re-Slope:	1.000000
A1 (Gain):	0.000354	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999870	Status:	OK.
Std Error of Est:	0.000151		
Predicted MDL:	0.085664		
Predicted MQL:	0.285547		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.40959	-.410	.000	.00038	.000	1
CalibStd=50	50.000	49.831	-.169	-.337	.01816	.000	1
CalibStd=20	20.000	20.265	.265	1.32	.00769	.000	1
CalibStd=10	10.000	10.314	.314	3.14	.00417	.000	1

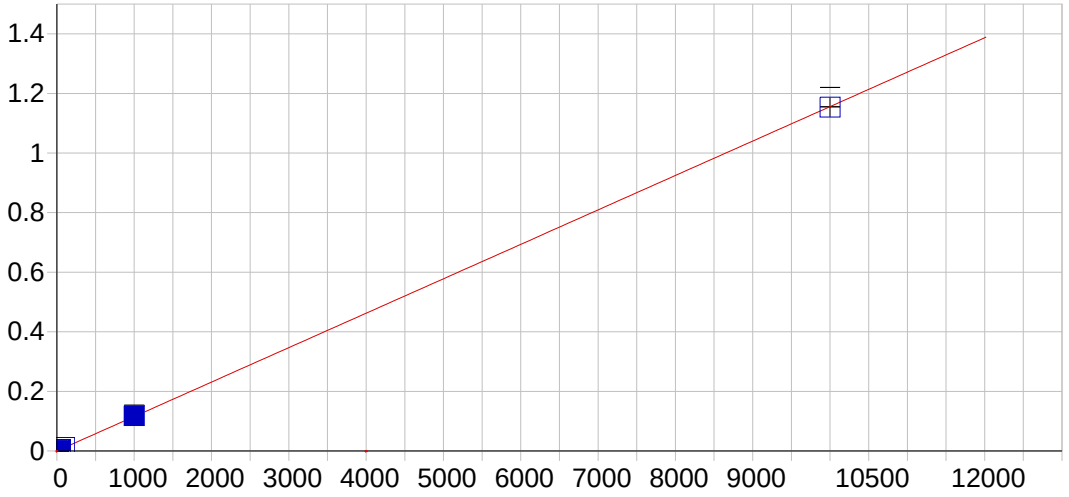


Mg 280.270 {120}

Date of Fit:	12/06/2010 13:53:25	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000271	Re-Slope:	1.000000
A1 (Gain):	0.000216	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.996154	Status:	OK.
Std Error of Est:	0.003446		
Predicted MDL:	0.184356		
Predicted MQL:	0.614520		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.25021	-.250	.000	.00022	.000	1
CalibStd=100	1000.0	1278.0	278.	27.8	.27606	.001	1
CalibStd=100	10000.	9722.0	-278.	-2.78	2.0983	.064	1

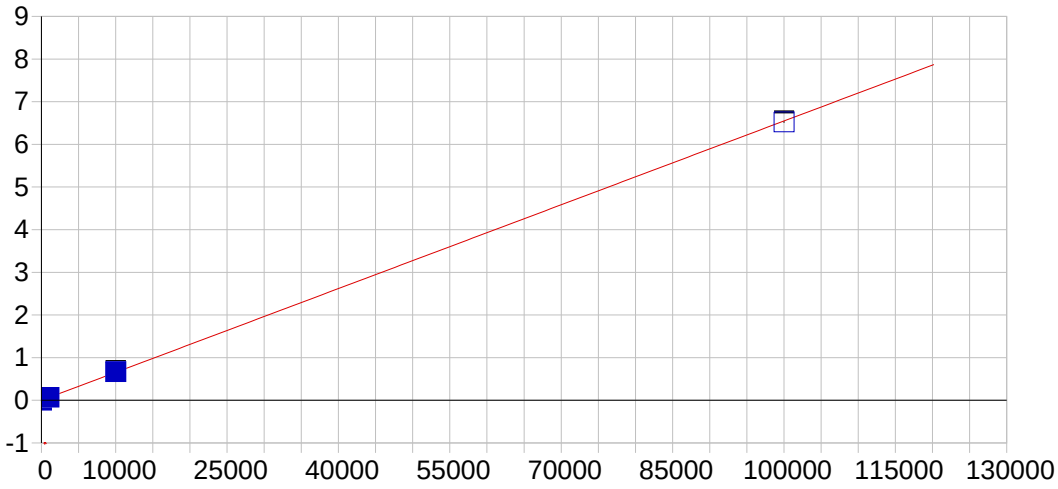


Mn 257.610 {131}

Date of Fit:	12/03/2010 13:34:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000031	Re-Slope:	1.000000
A1 (Gain):	0.000116	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999967	Status:	OK.
Std Error of Est:	0.000004		
Predicted MDL:	0.544024		
Predicted MQL:	1.813415		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00001	.000	.000	.00003	.000	1
CalibStd=10	10.000	9.8111	-.189	-1.89	.00116	.000	1
CalibStd=50	50.000	48.085	-1.91	-3.83	.00559	.000	1
CalibStd=20	20.000	19.084	-.916	-4.58	.00224	.000	1
CalibStd=100	100.00	98.994	-1.01	-1.01	.01147	.000	1
CalibStd=5	5.0000	5.3295	.329	6.59	.00065	.000	1
CalibStd=1	1.0000	1.0194	.019	1.94	.00015	.000	1
CalibStd=100	1000.0	1023.2	23.2	2.32	.11830	.001	1
CalibStd=100	10000.	9980.5	-19.5	-.195	1.1536	.032	1

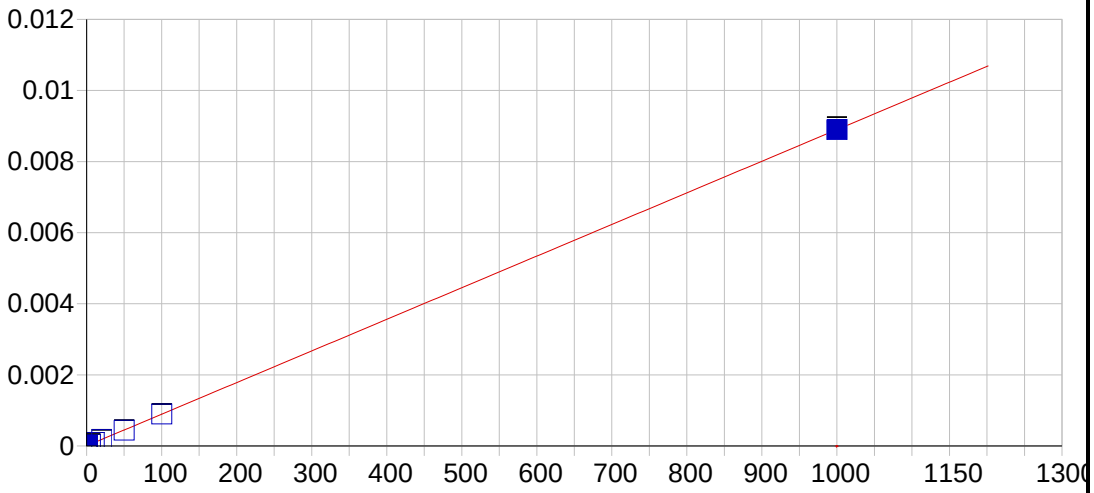


Mn 259.373 {130}

Date of Fit:	12/03/2010 13:40:52	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000007	Re-Slope:	1.000000
A1 (Gain):	0.000065	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999918	Status:	OK.
Std Error of Est:	0.000395		
Predicted MDL:	0.789048		
Predicted MQL:	2.630161		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.12678	-.127	.000	-.00002	.000	1
CalibStd=100	10000.	10239.	239.	2.39	.67386	.016	1
CalibStd-100	100000.	99653.	-347.	-.347	6.5253	.019	1
CalibStd=100	1000.0	1106.3	106.	10.6	.07278	.000	1

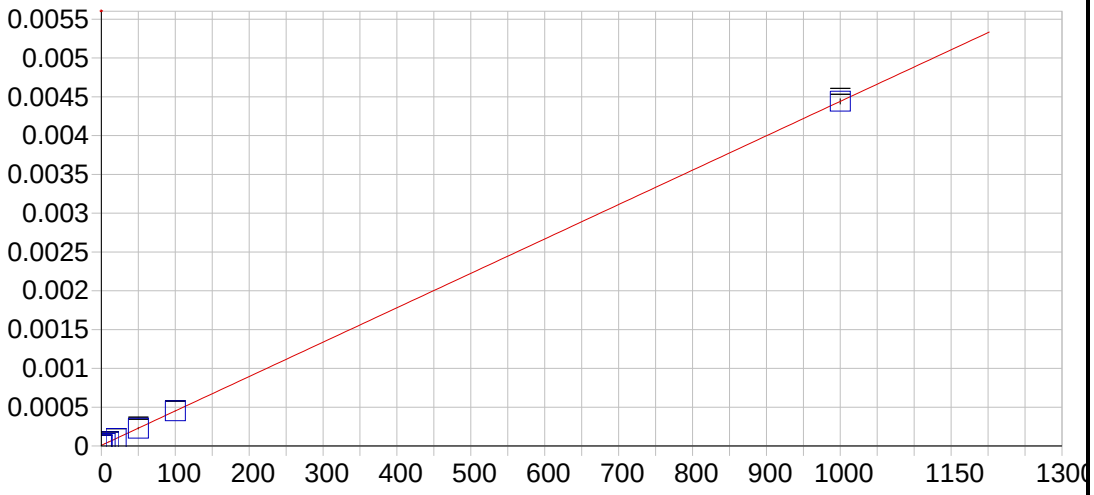


Mo 202.030 {467}

Date of Fit:	12/03/2010 13:29:14	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000004	Re-Slope:	1.000000
A1 (Gain):	0.000009	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999999	Status:	OK.
Std Error of Est:	0.000005		
Predicted MDL:	0.896640		
Predicted MQL:	2.988798		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.55090	.551	.000	.00001	.000	1
CalibStd=50	50.000	49.378	-.622	-1.24	.00044	.000	1
CalibStd=1	1.0000	.71540	-.285	-28.5	.00001	.000	1
CalibStd=20	20.000	19.133	-.867	-4.34	.00017	.000	1
CalibStd=10	10.000	10.449	.449	4.49	.00010	.000	1
CalibStd=100	100.00	100.49	.491	.491	.00090	.000	1
CalibStd=5	5.0000	5.2884	.288	5.77	.00005	.000	1
CalibStd=100	1000.0	999.99	-.006	-.001	.00890	.000	1

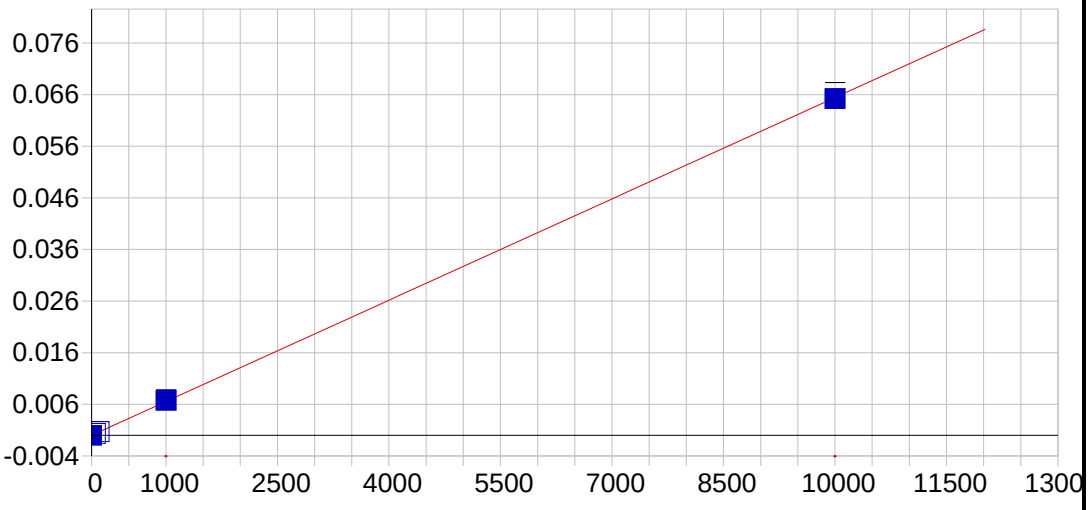


Mo 203.844 {465}

Date of Fit:	12/03/2010 13:29:14	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000008	Re-Slope:	1.000000
A1 (Gain):	0.000004	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	1.850950		
Predicted MQL:	6.169835		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.55285	.553	.000	.00001	.000	1
CalibStd=50	50.000	49.535	-.465	-.931	.00023	.000	1
CalibStd=1	1.0000	.92829	-.072	-7.17	.00001	.000	1
CalibStd=20	20.000	19.638	-.362	-1.81	.00009	.000	1
CalibStd=10	10.000	10.030	.030	.297	.00005	.000	1
CalibStd=100	100.00	100.10	.097	.097	.00045	.000	1
CalibStd=5	5.0000	5.2000	.200	4.00	.00003	.000	1
CalibStd=100	1000.0	1000.0	.020	.002	.00444	.000	1

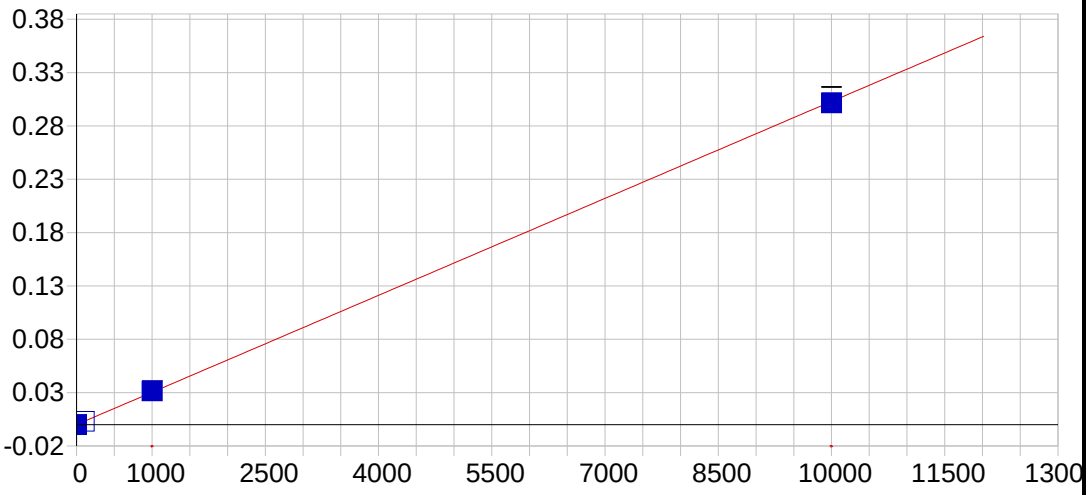


Mo 204.598 {465}

Date of Fit:	12/03/2010 13:34:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000003	Re-Slope:	1.000000
A1 (Gain):	0.000007	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999949	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	1.394092		
Predicted MQL:	4.646972		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00344	-.003	.000	.00000	.000	1
CalibStd=100	1000.0	1030.7	30.7	3.07	.00675	.000	1
CalibStd=100	10000.	9965.8	-34.2	-.342	.06520	.001	1
CalibStd=50	50.000	50.686	.686	1.37	.00033	.000	1
CalibStd=100	100.00	102.78	2.78	2.78	.00068	.000	1

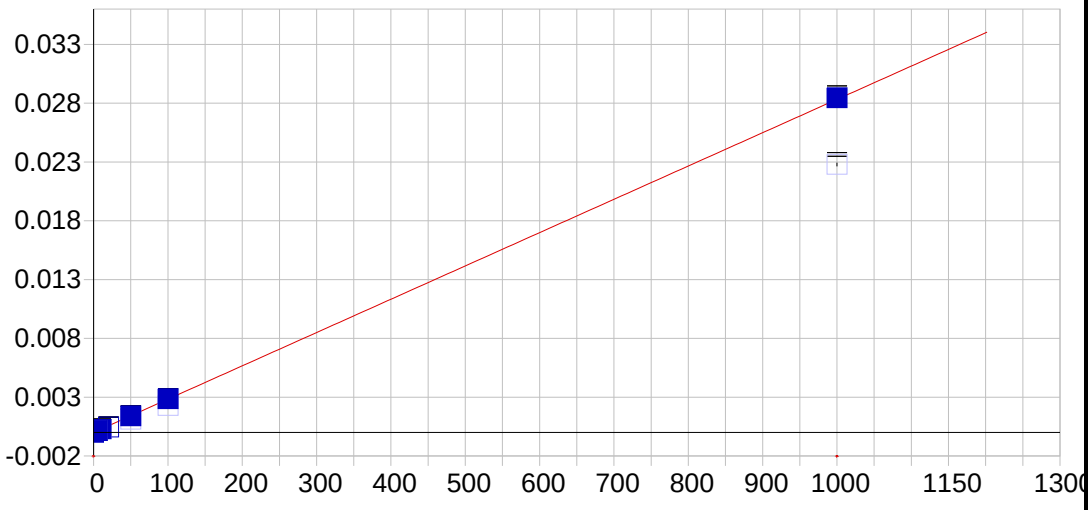


Ni 221.647 {452}

Date of Fit:	12/03/2010 13:34:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000004	Re-Slope:	1.000000
A1 (Gain):	0.000030	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999895	Status:	OK.
Std Error of Est:	0.000021		
Predicted MDL:	0.537311		
Predicted MQL:	1.791036		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00620	-.006	.000	.00000	.000	1
CalibStd=100	10000.	9952.6	-47.4	-.474	.30154	.006	1
CalibStd=100	100.00	102.14	2.14	2.14	.00310	.000	1
CalibStd=100	1000.0	1045.3	45.3	4.53	.03167	.000	1

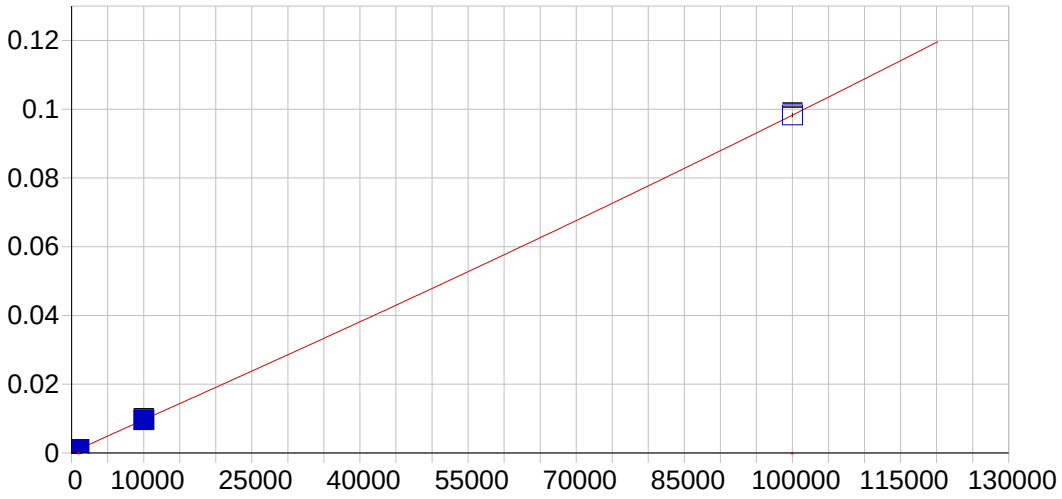


Ni 231.604 {445}

Date of Fit:	12/06/2010 14:31:10	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000002	Re-Slope:	1.000000
A1 (Gain):	0.000028	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999336	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	0.494329		
Predicted MQL:	1.647764		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00052	.001	.000	.00000	.000	1
CalibStd=50	50.000	49.477	-.523	-1.05	.00112	.000	1
CalibStd=20	20.000	15.669	-4.33	-21.7	.00044	.000	1
CalibStd=10	10.000	10.156	.156	1.56	.00023	.000	1
CalibStd=100	100.00	100.74	.737	.737	.00229	.000	1
CalibStd=5	5.0000	5.4735	.473	9.47	.00013	.000	1
CalibStd=100	1000.0	1004.6	4.57	.457	.02279	.000	1

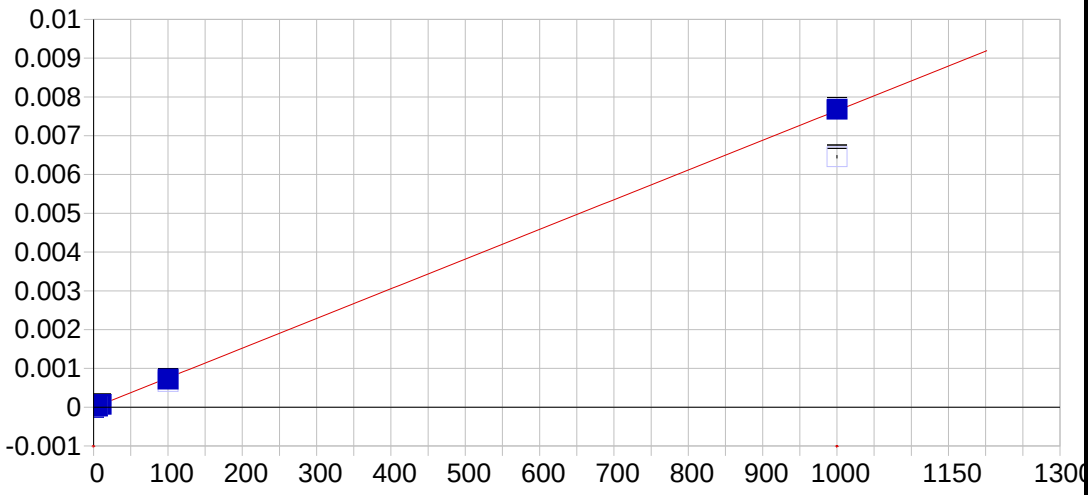


Pb 216.999 {455}

Date of Fit:	12/03/2010 13:40:52	Type of Fit:	Full Fit	Weighting:	None

A0 (Offset):	0.000013	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	0.970000		
Correlation:	1.000000	Status:	Warning Positive Curvature
Std Error of Est:	0.000000		
Predicted MDL:	10.791424		
Predicted MQL:	35.971414		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00001	.000	1
CalibStd=100	1000.0	1000.3	.316	.032	.00104	.000	1
CalibStd=100	10000.	10000.0	-.039	.000	.00967	.000	1
CalibStd-100	100000.	100000.	.000	.000	.09829	.001	1

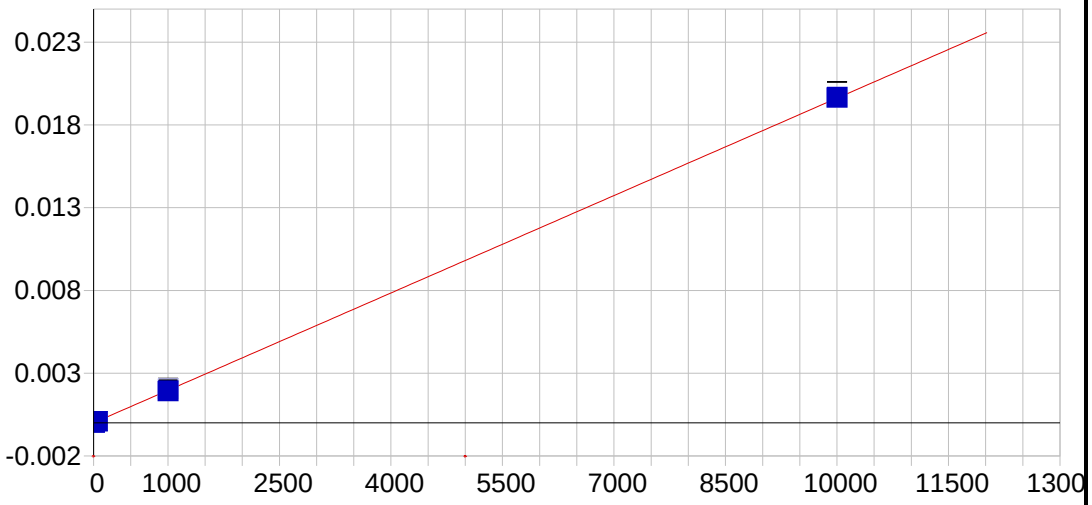


Pb 220.353 {453}

Date of Fit:	12/03/2010 13:29:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000010	Re-Slope:	1.000000
A1 (Gain):	0.000008	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999804	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	2.072715		
Predicted MQL:	6.909051		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00005	.000	.000	-.00001	.000	1
CalibStd=10	10.000	10.875	.875	8.75	.00007	.000	1
CalibStd=100	100.00	95.485	-4.51	-4.51	.00066	.000	1
CalibStd=5	5.0000	4.7139	-.286	-5.72	.00002	.000	1
CalibStd=100	1000.0	1004.3	4.30	.430	.00646	.000	1

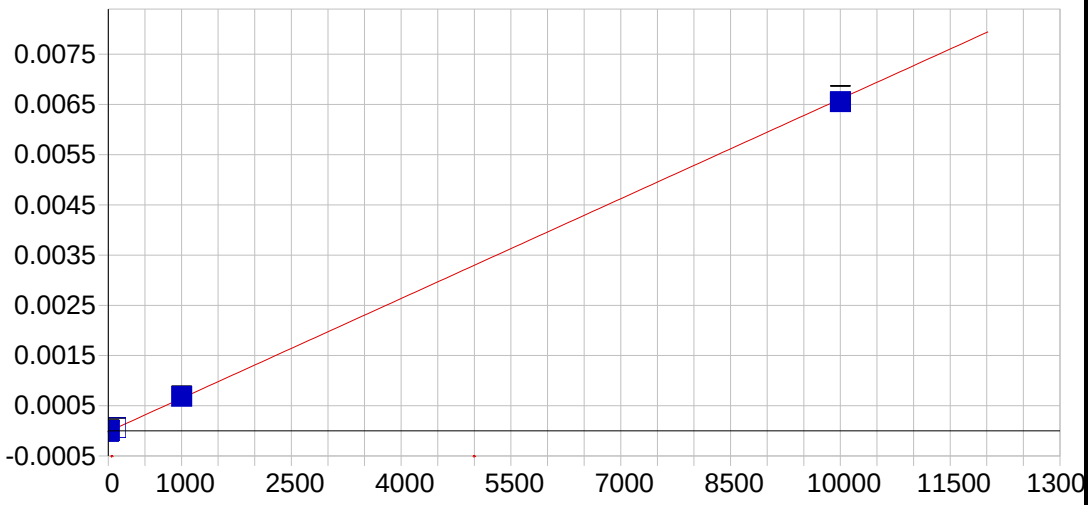


Sb 206.833 {463}

Date of Fit:	12/03/2010 13:34:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000002	Re-Slope:	1.000000
A1 (Gain):	0.000002	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999963	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	5.027101		
Predicted MQL:	16.757005		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00204	.002	.000	.00000	.000	1
CalibStd=100	1000.0	978.77	-21.2	-2.12	.00206	.000	1
CalibStd=10	10.000	8.2085	-1.79	-17.9	.00002	.000	1
CalibStd=50	50.000	49.695	-.305	-.610	.00011	.000	1
CalibStd=100	10000.	10025.	24.9	.249	.01967	.000	1

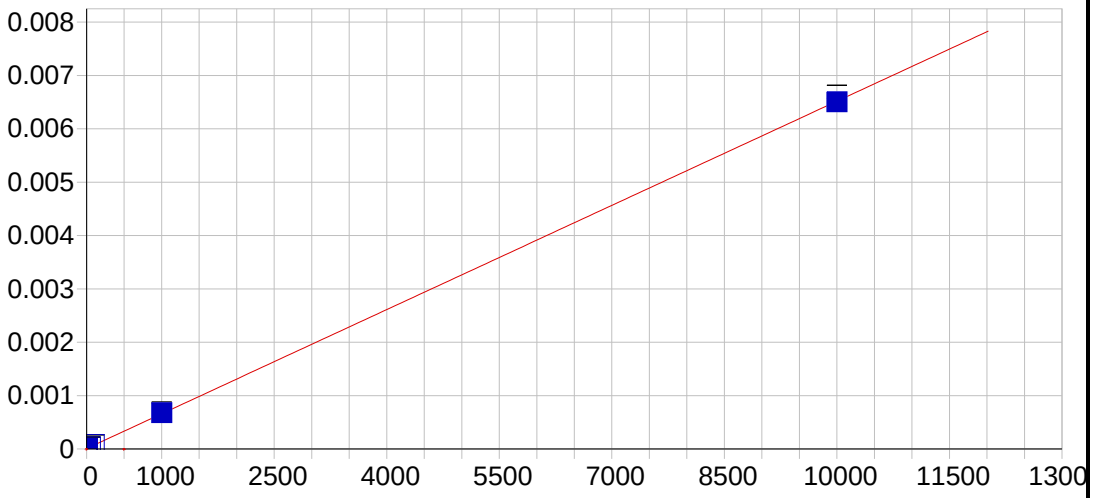


Sb 217.581 {455}

Date of Fit:	12/03/2010 13:34:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000014	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998781	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	22.755935		
Predicted MQL:	75.853116		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.01880	-.019	.000	-.00001	.000	1
CalibStd=100	1000.0	1054.0	54.0	5.40	.00068	.000	1
CalibStd=20	20.000	25.772	5.77	28.9	.00000	.000	1
CalibStd=10	10.000	24.297	14.3	143.	.00000	.000	1
CalibStd=100	100.00	111.59	11.6	11.6	.00006	.000	1
CalibStd=100	10000.	9914.3	-85.7	-.857	.00655	.000	1

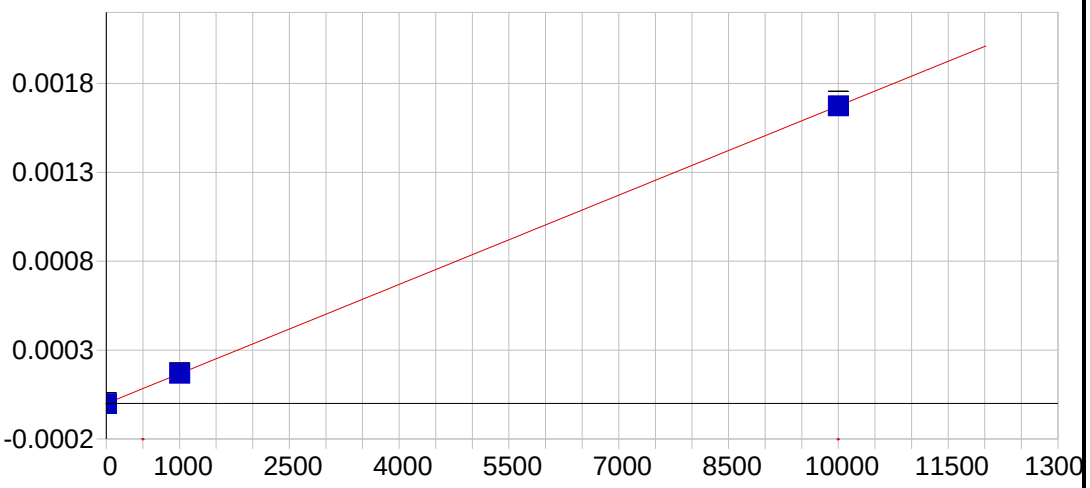


Se 196.090 {472}

Date of Fit:	12/03/2010 13:34:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000008	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999175	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	10.989014		
Predicted MQL:	36.630047		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.01247	.012	.000	.00001	.000	1
CalibStd=50	50.000	40.808	-9.19	-18.4	.00003	.000	1
CalibStd=100	1000.0	1030.4	30.4	3.04	.00068	.000	1
CalibStd=10	10.000	-2.0373	-12.0	-120.	.00001	.000	1
CalibStd=100	100.00	111.22	11.2	11.2	.00008	.000	1
CalibStd=100	10000.	9979.6	-20.4	-.204	.00650	.000	1

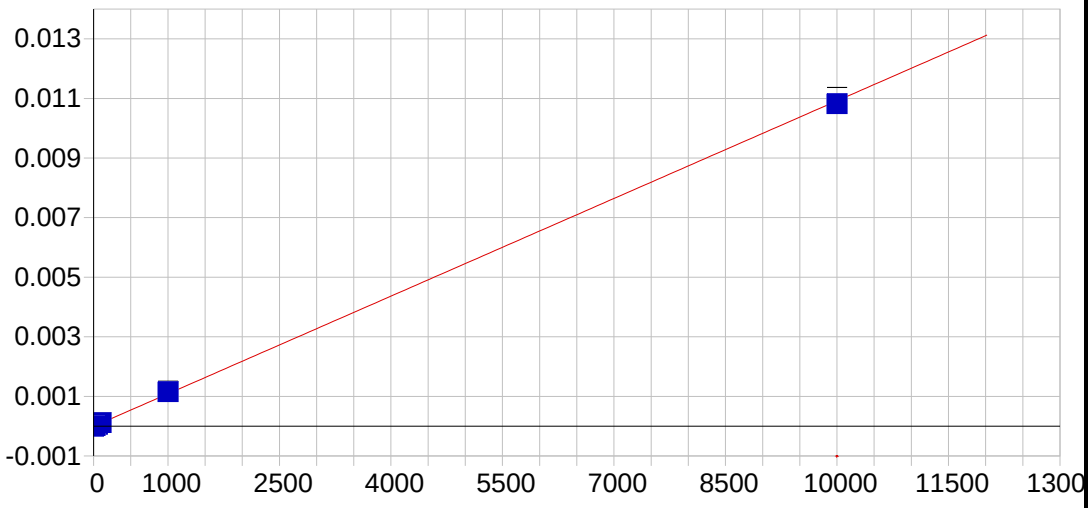


Se 206.279 {463}

Date of Fit:	12/03/2010 13:34:59	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999998	Status:	OK.
Std Error of Est:	0.000003		
Predicted MDL:	54.697681		
Predicted MQL:	182.325602		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-10.459	-10.5	.000	.00000	.000	1
CalibStd=100	1000.0	1011.6	11.6	1.16	.00017	.000	1
CalibStd=100	10000.	9998.8	-1.16	-.012	.00167	.000	1

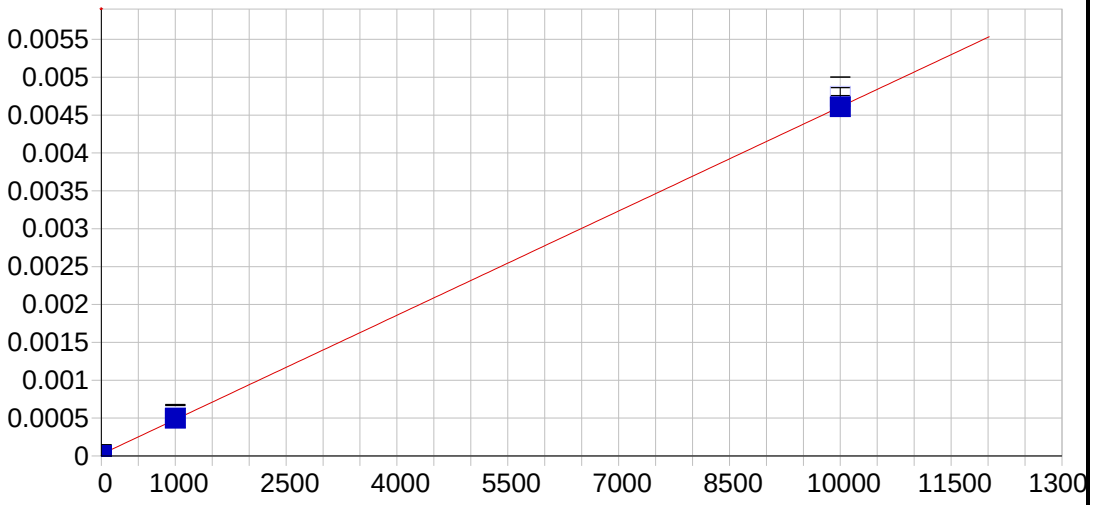


Tl 190.856 {477}

Date of Fit:	12/03/2010 13:34:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000006	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999550	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	7.817368		
Predicted MQL:	26.057894		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00987	-.010	.000	-.00001	.000	1
CalibStd=50	50.000	58.052	8.05	16.1	.00006	.000	1
CalibStd=100	1000.0	1063.8	63.8	6.38	.00116	.000	1
CalibStd=20	20.000	24.201	4.20	21.0	.00002	.000	1
CalibStd=100	100.00	108.79	8.79	8.79	.00011	.000	1
CalibStd=10	10.000	14.731	4.73	47.3	.00001	.000	1
CalibStd=100	10000.	9910.5	-89.5	-.895	.01082	.000	1

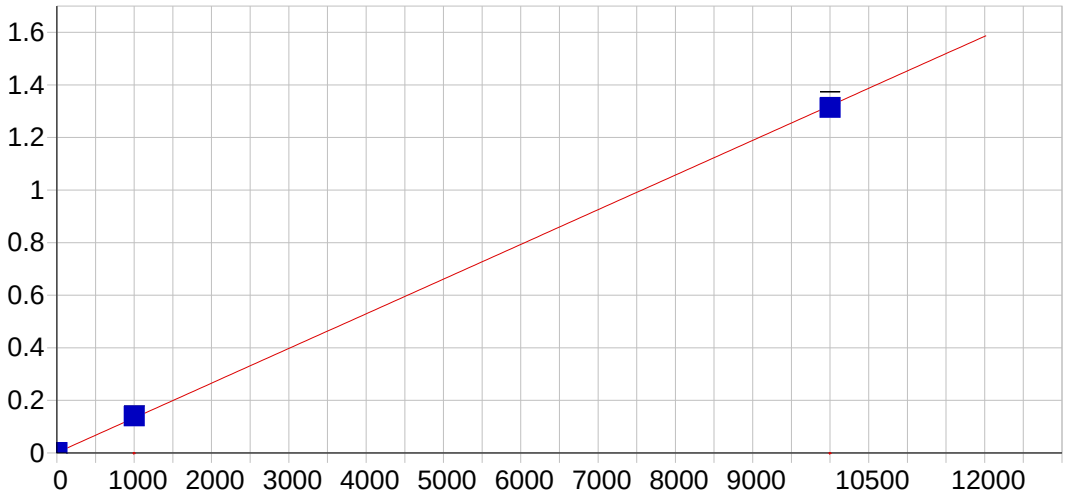


Tl 276.787 {122}

Date of Fit:	12/03/2010 13:34:59	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000022	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999986	Status:	OK.
Std Error of Est:	0.000019		
Predicted MDL:	137.066887		
Predicted MQL:	456.889623		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-28.148	-28.1	.000	.00001	.000	1
CalibStd=100	1000.0	1031.3	31.3	3.13	.00051	.000	1
CalibStd=100	10000.	9996.9	-3.13	-.031	.00475	.000	1

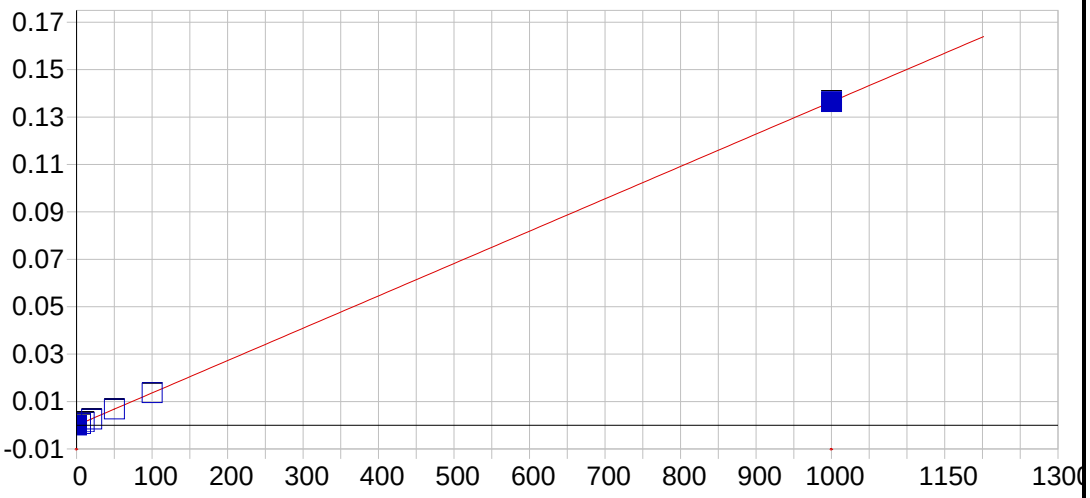


V 290.882 {116}

Date of Fit:	12/03/2010 13:34:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001479	Re-Slope:	1.000000
A1 (Gain):	0.000132	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999857	Status:	OK.
Std Error of Est:	0.000406		
Predicted MDL:	0.817399		
Predicted MQL:	2.724663		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.04817	-.048	.000	.00147	.000	1
CalibStd=100	1000.0	1053.5	53.5	5.35	.14052	.001	1
CalibStd=100	10000.	9946.5	-53.5	-.535	1.3142	.022	1

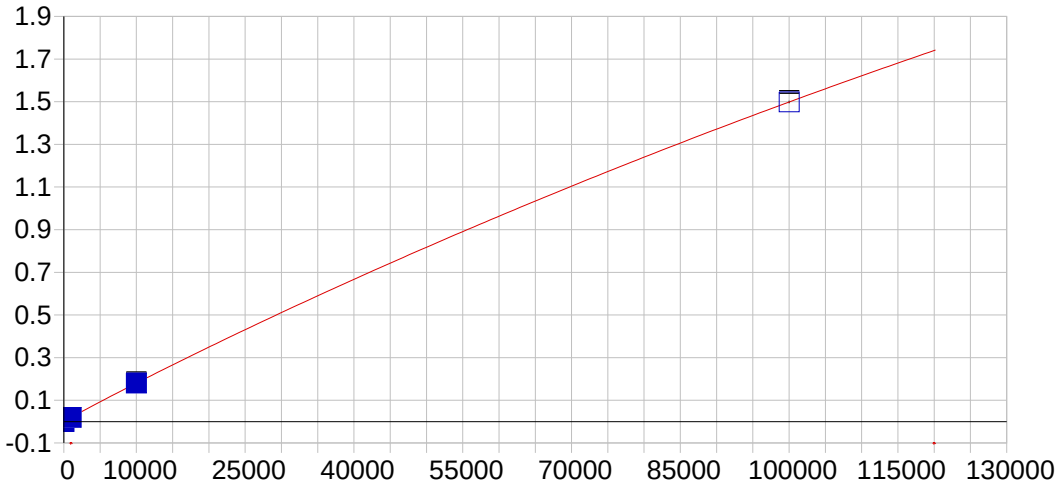


V 292.402 {115}

Date of Fit:	12/03/2010 13:29:14	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-0.000027	Re-Slope:	1.000000
A1 (Gain):	0.000136	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999999	Status:	OK.
Std Error of Est:	0.000070		
Predicted MDL:	0.883468		
Predicted MQL:	2.944893		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.40341	.403	.000	.00003	.000	1
CalibStd=50	50.000	49.948	-.052	-.104	.00679	.000	1
CalibStd=100	1000.0	999.99	-.007	-.001	.13647	.000	1
CalibStd=20	20.000	18.993	-1.01	-5.03	.00257	.000	1
CalibStd=5	5.0000	5.1509	.151	3.02	.00068	.000	1
CalibStd=10	10.000	10.246	.246	2.46	.00137	.000	1
CalibStd=100	100.00	100.27	.266	.266	.01366	.000	1

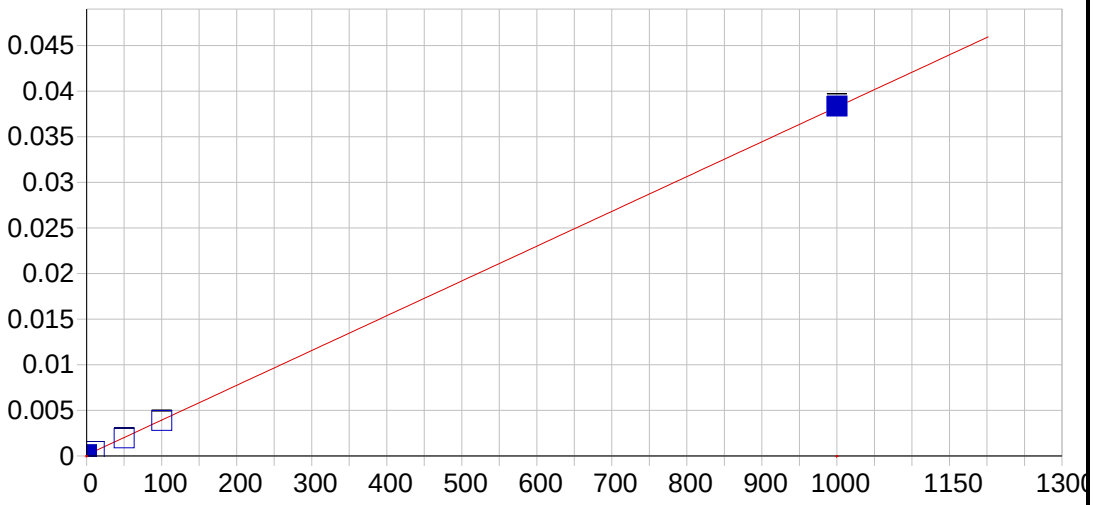


Zn 206.200 {463}

Date of Fit:	12/03/2010 13:40:52	Type of Fit:	Full Fit	Weighting:	None

A0 (Offset):	-0.000032	Re-Slope:	1.000000
A1 (Gain):	0.000024	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	0.970000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.343458		
Predicted MQL:	1.144860		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
CalibStd=100	10000.	10001.	.671	.007	.18072	.004	1
CalibStd-100	100000.	100000.	-.010	.000	1.4986	.006	1
Blank	.00000	3.7175	3.72	.000	.00005	.000	1
CalibStd=100	1000.0	994.85	-5.15	-.515	.01947	.000	1

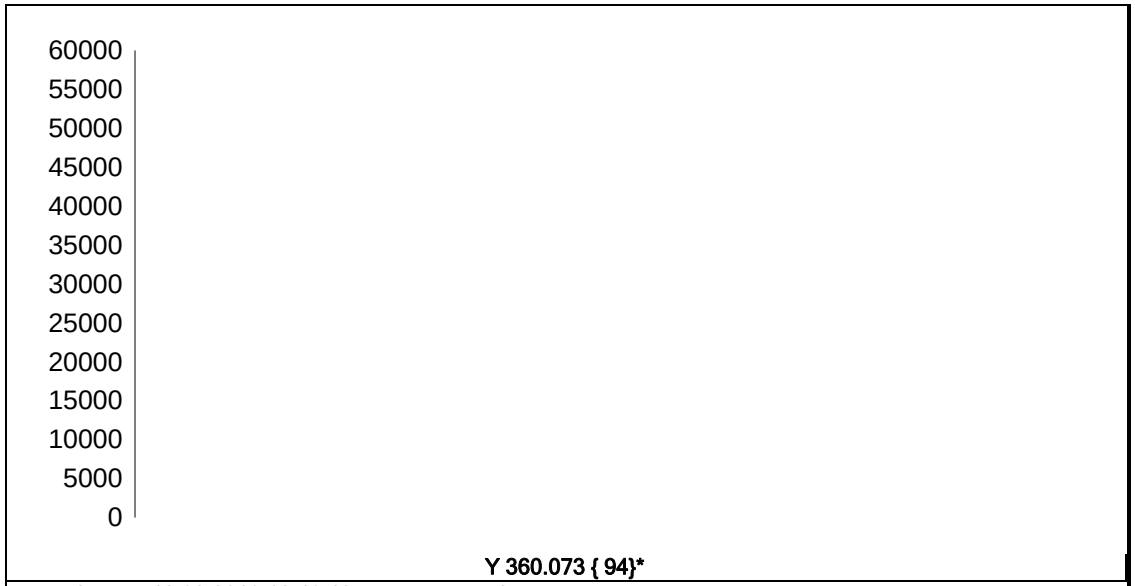


Zn 213.856 {458}

Date of Fit:	12/03/2010 13:29:14	Type of Fit:	Linear	Weighting:	1/Conc

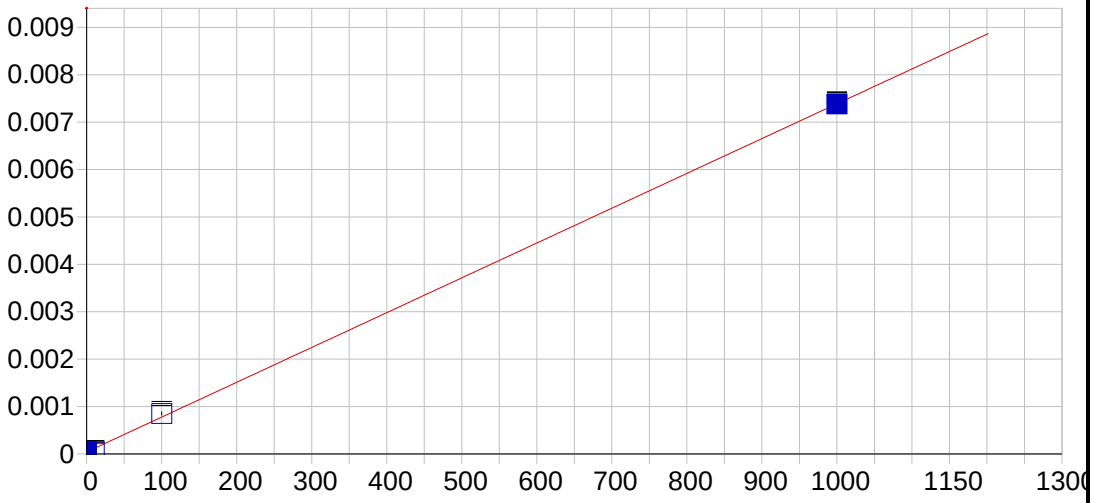
A0 (Offset):	0.000116	Re-Slope:	1.000000
A1 (Gain):	0.000038	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999957	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	0.248361		
Predicted MQL:	0.827870		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00002	.000	.000	.00012	.000	1
CalibStd=100	100.00	98.625	-1.38	-1.38	.00388	.000	1
CalibStd=50	50.000	48.375	-1.63	-3.25	.00196	.000	1
CalibStd=10	10.000	10.458	.458	4.58	.00052	.000	1
CalibStd=100	1000.0	1002.5	2.54	.254	.03836	.000	1



Date of Fit:	12/03/2010 12:40:18	Type of Fit:	Linear	Weighting:	None	
A0 (Offset):	0.000000		Re-Slope:	1.000000		
A1 (Gain):	0.000000		Y-int:	0.000000		
A2 (Curvature):	0.000000					
n (Exponent):	1.000000					
Correlation:	0.000000		Status:	Warning	Zero Gain	
Std Error of Est:	0.000000					
Predicted MDL:	n/a					
Predicted MQL:	n/a					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	51016.	498.	1

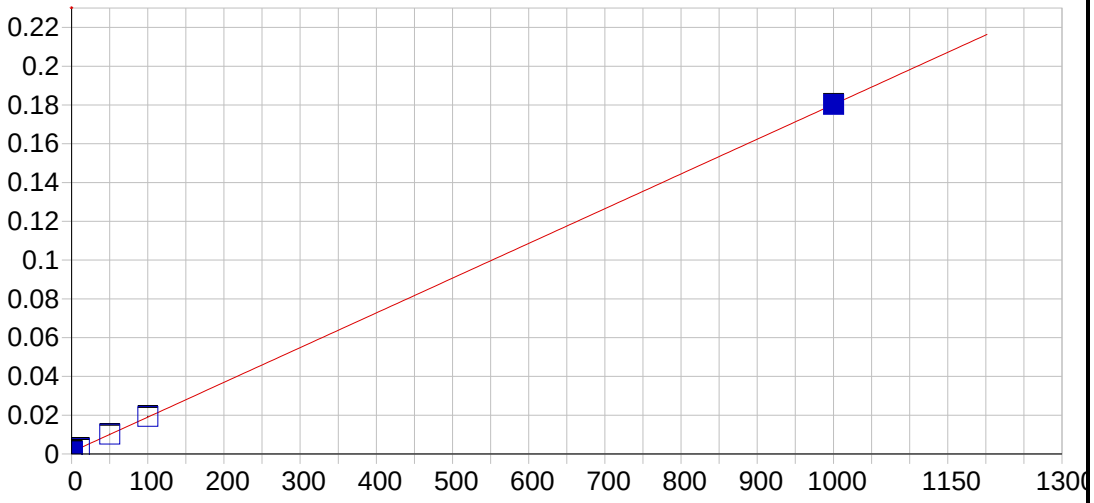


B 249.773 {135}

Date of Fit:	12/03/2010 13:29:14	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000043	Re-Slope:	1.000000
A1 (Gain):	0.000007	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999864	Status:	OK.
Std Error of Est:	0.000072		
Predicted MDL:	6.303696		
Predicted MQL:	21.012320		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.10078	.101	.000	.00004	.000	1
CalibStd=10	10.000	.66264	-9.34	-93.4	.00005	.000	1
CalibStd=100	100.00	110.16	10.2	10.2	.00085	.000	1
CalibStd=100	1000.0	999.08	-.922	-.092	.00738	.000	1

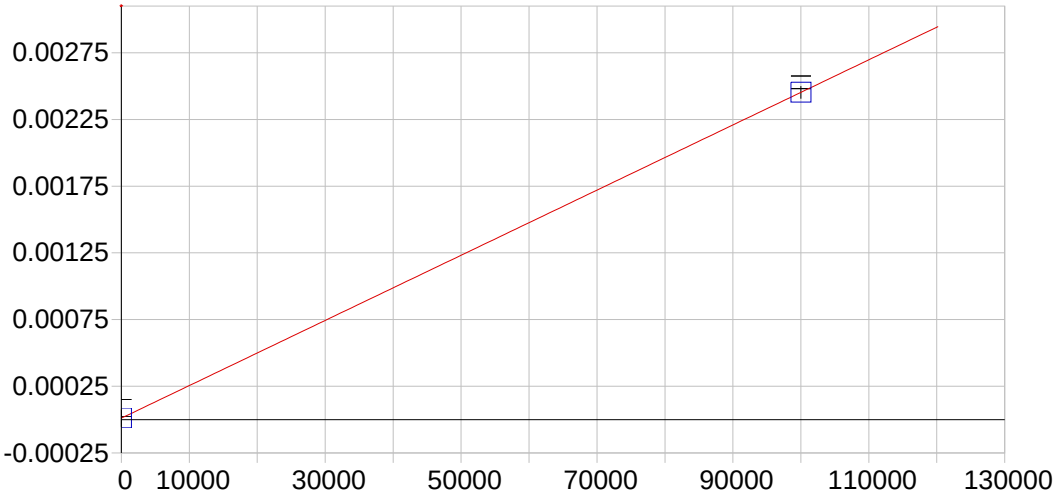


Li 670.784 { 50}

Date of Fit:	12/03/2010 13:29:14	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.001090	Re-Slope:	1.000000
A1 (Gain):	0.000179	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999995	Status:	OK.
Std Error of Est:	0.000244		
Predicted MDL:	2.062434		
Predicted MQL:	6.874779		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-1.9164	-1.92	.000	.00075	.000	1
CalibStd=10	10.000	9.4167	-.583	-5.83	.00278	.001	1
CalibStd=50	50.000	50.348	.348	.696	.01011	.000	1
CalibStd=100	100.00	101.68	1.68	1.68	.01931	.000	1
CalibStd=100	1000.0	999.82	-.180	-.018	.18023	.000	1
CalibStd=1	1.0000	1.6523	.652	65.2	.00139	.000	1

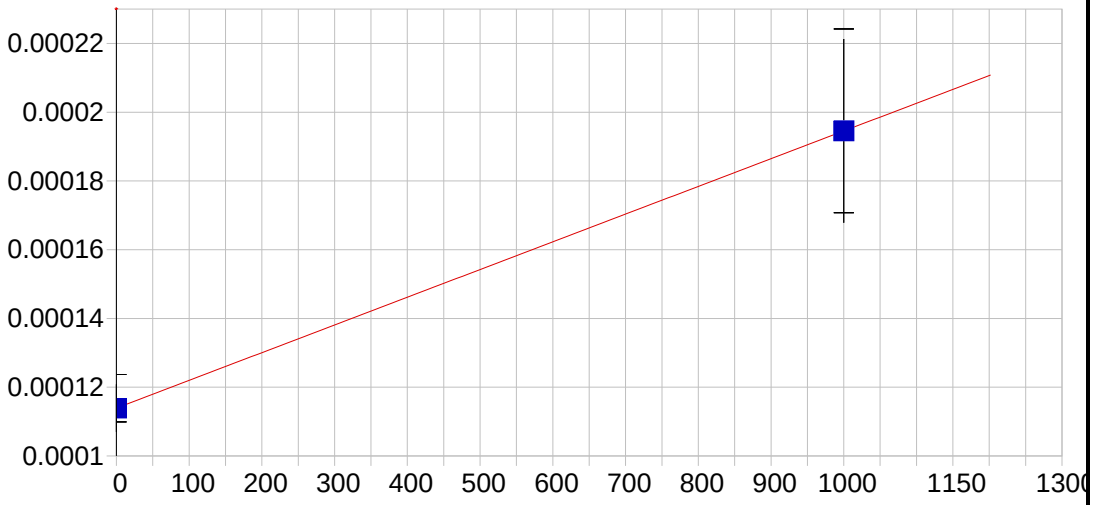


Na 330.298 {102}

Date of Fit:	12/03/2010 13:46:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000011	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	3383.868119		
Predicted MQL:	11279.56039		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00001	.000	1
CalibStd=100	100000.	100000.	.000	.000	.00245	.000	1

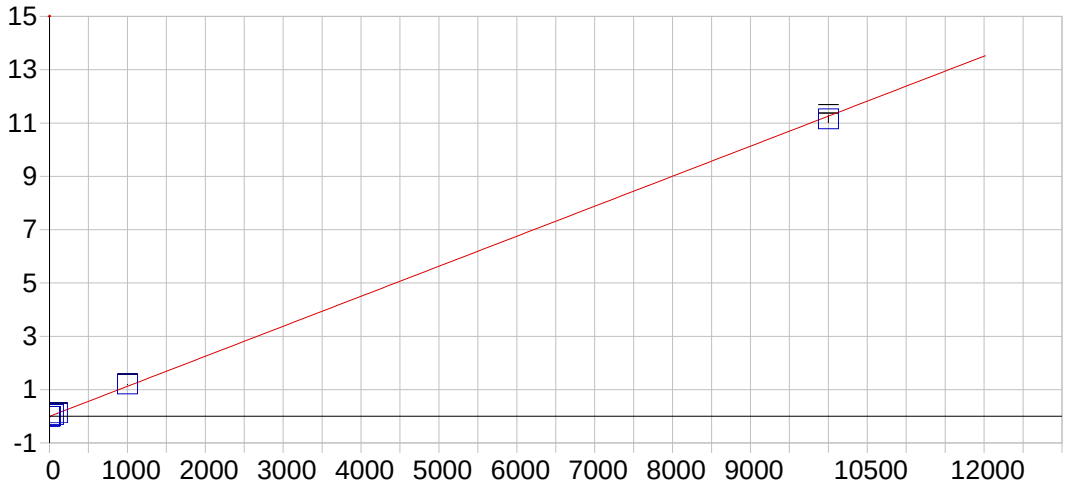


Si 251.611 {134}

Date of Fit:	12/03/2010 13:29:14	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000114	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	575.029642		
Predicted MQL:	1916.765472		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00011	.000	1
CalibStd=100	1000.0	1000.0	.000	.000	.00019	.000	1

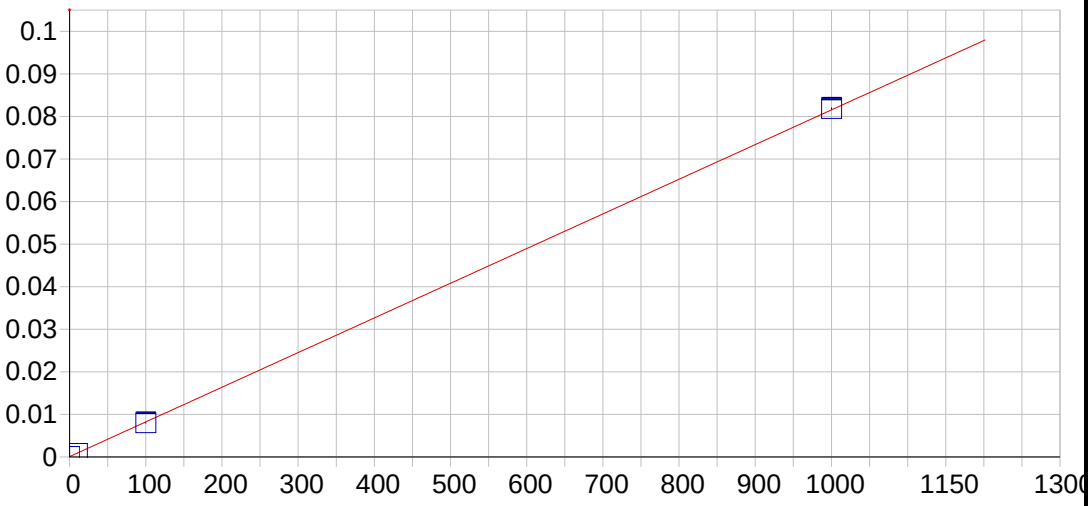


Sr 407.771 { 83}

Date of Fit:	12/03/2010 13:34:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001611	Re-Slope:	1.000000
A1 (Gain):	0.001126	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999644	Status:	OK.
Std Error of Est:	0.000116		
Predicted MDL:	0.121208		
Predicted MQL:	0.404025		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00032	.000	.000	-.00161	.000	1
CalibStd=1	1.0000	.98460	-.015	-1.54	-.00050	.000	1
CalibStd=5	5.0000	5.1951	.195	3.90	.00424	.000	1
CalibStd=10	10.000	10.443	.443	4.43	.01015	.000	1
CalibStd=50	50.000	54.128	4.13	8.26	.05933	.001	1
CalibStd=100	100.00	110.50	10.5	10.5	.12280	.001	1
CalibStd=100	1000.0	1075.3	75.3	7.53	1.2091	.002	1
CalibStd=100	10000.	9909.5	-90.5	-.905	11.156	.157	1



Ti 334.941 {101}

Date of Fit:	12/03/2010 13:29:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000091	Re-Slope:	1.000000
A1 (Gain):	0.000081	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999912	Status:	OK.
Std Error of Est:	0.000005		
Predicted MDL:	1.050606		
Predicted MQL:	3.502021		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00125	.001	.000	.00009	.000	1
CalibStd=10	10.000	8.9889	-1.01	-10.1	.00082	.000	1
CalibStd=100	100.00	97.206	-2.79	-2.79	.00801	.000	1
CalibStd=100	1000.0	1003.8	3.80	.380	.08185	.000	1

Sample Name: Blank Acquired: 12/03/2010 12:34:51 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	Al3092	Al3961	As1890	Ba4554	Ba4934	Be2348	Be3130	Ca3179	Ca3933	Ca3968
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.001**	**.000**	**.000**	**.000**	**.033**	**.000**	**.000**	**.004**	**.012**	**.004**
Stddev	.000	.000	.000	.000	.000	.00	.000	.00	.000	.000	.000	.000
%RSD	3.11	9.41	2.79	34.6	378.	35.8	1.23	140.	169.	1.86	4.04	10.2

Elem	Cd2265	Cd2288	Co2286	Co2388	Cr2677	Cr2835	Cu2247	Fe2343	Fe2395	Fe2599	Mg2790	Mg2795
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**
Stddev	.000	.000	.00	.000	.00	.000	.000	.00	.000	.000	.000	.000
%RSD	16.0	122.	82.4	185.	227.	63.6	6.51	21.9	26.0	8.08	23.4	4.58

Elem	Mg2802	Mn2576	Mn2593	Mo2020	Mo2045	Ni2216	Ni2316	Pb2169	Pb2203	Sb2068	Sb2175	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**
Stddev	.000	.000	.00	.000	.000	.000	.00	.000	.00	.000	.00	.000
%RSD	3.06	91.2	122.	28.2	564.	161.	889.	74.0	73.4	181.	102.	47.2

Elem	Se2062	Tl1908	V_2908	V_2924	Zn2062	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.001**	**.000**	**.000**	**.000**
Stddev	.00	.00	.000	.000	.000	.000
%RSD	239.	35.4	5.04	24.0	8.49	9.35

Sample Name: Blank Acquired: 12/03/2010 12:34:51 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Units	Cts/S
Avg	**51016.**
Stddev	498.
%RSD	.97521

Sample Name: CalibStd=0.25 Acquired: 12/03/2010 12:40:21 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Be3130	Cd2265
Units	Cts/S	Cts/S
Avg	**.000**	**.000**
Stddev	.000	.000
%RSD	42.4	16.9

Int. Std.	Y_3600
Units	Cts/S
Avg	**49657.**
Stddev	355.
%RSD	.71391

Sample Name: CalibStd=0.5 Acquired: 12/03/2010 12:45:50 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Be3130	Cd2265
Units	Cts/S	Cts/S
Avg	**.001**	**.000**
Stddev	.000	.000
%RSD	25.1	17.9

Int. Std.	Y_3600
Units	Cts/S
Avg	**50470.**
Stddev	244.
%RSD	.48414

Sample Name: CalibStd=1 Acquired: 12/03/2010 12:51:20 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Ba4554	Cd2265	Co2286	Cr2677	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.001**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**
Stddev	.000	.000	.000	.000	.000	.000	.000
%RSD	9.31	80.9	4.54	31.3	35.9	24.2	59.5

Int. Std.	Y_3600
Units	Cts/S
Avg	**50017.**
Stddev	656.
%RSD	1.3120

Sample Name: CalibStd=5 Acquired: 12/03/2010 12:56:50 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	Ba4554	Be3130	Cd2265	Co2286	Cr2677	Cu2247	Mn2576	Mo2020	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.001**	**.000**	**.002**	**.005**	**.000**	**.000**	**.001**	**.000**	**.001**	**.000**	**.000**	**.000**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	3.26	11.4	5.51	3.03	2.73	2.39	4.98	2.78	8.80	11.3	7.83	59.4

Elem	V_2924
Units	Cts/S
Avg	**.001**
Stddev	.000
%RSD	20.2

Int. Std.	Y_3600
Units	Cts/S
Avg	**50884.**
Stddev	145.
%RSD	.28425

Sample Name: CalibStd=10 Acquired: 12/03/2010 13:02:21 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	Ba4554	Be3130	Cd2265	Co2286	Cr2677	Cu2247	Mg2795	Mn2576	Mo2020	Ni2316
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.002**	**.000**	**.004**	**.010**	**.001**	**.000**	**.001**	**.000**	**.004**	**.001**	**.000**	**.000**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	1.37	7.34	1.93	.735	.834	2.61	2.21	4.40	.969	4.42	4.45	4.03

Elem	Pb2203	Sb2068	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.000**	**.000**	**.000**	**.001**	**.001**
Stddev	.000	.000	.000	.000	.000	.000	.000
%RSD	9.06	27.2	769.	91.2	41.6	6.68	.810

Int. Std.	Y_3600
Units	Cts/S
Avg	**51091.**
Stddev	216.
%RSD	.42311

Sample Name: CalibStd=20 Acquired: 12/03/2010 13:07:53 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al1670	Ba4554	Cr2677	Fe2599	Mg2795	Mn2576	Mo2020	Ni2316	Sb2175	Tl1908	V_2924
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.009**	**.002**	**.001**	**.008**	**.002**	**.000**	**.000**	**.000**	**.000**	**.003**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	10.3	3.36	2.11	3.18	.197	1.69	4.47	3.23	108.	20.1	4.02

Int. Std.	Y_3600
Units	Cts/S
Avg	**51608.**
Stddev	228.
%RSD	.44108

Sample Name: CalibStd=50 Acquired: 12/03/2010 13:13:22 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al1670	Ba4554	Ca3933	Cd2265	Co2286	Cr2677	Cr2835	Cu2247	Fe2599	Mg2795	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.024**	**.145**	**.005**	**.002**	**.005**	**.001**	**.001**	**.001**	**.018**	**.006**	**.000**
Stddev	.000	.001	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	1.80	3.02	1.50	1.17	1.88	2.57	2.53	2.37	2.86	1.92	2.86	1.01

Elem	Mo2045	Ni2316	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.001**	**.000**	**.000**	**.000**	**.007**	**.002**
Stddev	.000	.000	.000	.000	.000	.000	.000
%RSD	3.34	.727	4.96	13.5	11.1	1.79	1.15

Int. Std.	Y_3600
Units	Cts/S
Avg	**50814.**
Stddev	712.
%RSD	1.4004

Sample Name: CalibStd=100 Acquired: 12/03/2010 13:18:48 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	As1890	Ba4554	Be2348	Be3130	Ca3968	Cd2265	Cd2288	Co2286	Cr2677	Cr2835	Cu2247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.022**	**.000**	**.049**	**.006**	**.102**	**.091**	**.010**	**.006**	**.003**	**.010**	**.002**	**.002**
Stddev	.000	.000	.001	.000	.001	.001	.000	.000	.000	.000	.000	.000
%RSD	1.39	4.00	1.44	.657	.777	1.10	.492	.725	.787	.094	.703	.926

Elem	Fe2599	Mn2576	Mo2020	Mo2045	Ni2216	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.002**	**.011**	**.001**	**.001**	**.003**	**.002**	**.001**	**.000**	**.000**	**.000**	**.014**	**.004**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	2.78	1.56	.956	.204	.865	.909	2.40	7.26	7.55	2.40	.303	.824

Int. Std.	Y_3600
Units	Cts/S
Avg	**50760.**
Stddev	367.
%RSD	.72350

Sample Name: CalibStd=1000 Acquired: 12/03/2010 13:24:12 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al1670	Al3092	Al3961	As1890	Ba4934	Be2348	Be3130	Ca3179	Ca3968	Cd2265	Cd2288	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.002**	**.007**	**.015**	**.000**	**.669**	**.066**	**1.03**	**.022**	**1.05**	**.101**	**.059**	**.031**
Stddev	.000	.000	.000	.000	.002	.000	.00	.000	.00	.001	.000	.000
%RSD	.739	1.82	.752	1.96	.301	.538	.347	.740	.284	.986	.727	.793

Elem	Co2388	Cr2677	Cr2835	Cu2247	Fe2343	Fe2395	Fe2599	Mg2790	Mg2802	Mn2576	Mn2593	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.006**	**.106**	**.022**	**.019**	**.000**	**.004**	**.022**	**.002**	**.276**	**.118**	**.073**	**.009**
Stddev	.000	.001	.000	.000	.000	.000	.000	.000	.001	.001	.000	.000
%RSD	.678	.882	.839	.882	2.82	1.28	.389	2.14	.387	.919	.418	.776

Elem	Mo2045	Ni2216	Ni2316	Pb2169	Pb2203	Sb2068	Sb2175	Se1960	Se2062	Tl1908	V_2908	V_2924
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.007**	**.032**	**.023**	**.001**	**.006**	**.002**	**.001**	**.001**	**.000**	**.001**	**.141**	**.136**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000
%RSD	.629	.905	.692	1.06	.682	.888	.516	1.05	1.84	.795	.441	.365

Elem	Zn2062	Zn2138
Units	Cts/S	Cts/S
Avg	**.019**	**.038**
Stddev	.000	.000
%RSD	.448	.674

Sample Name: CalibStd=1000 Acquired: 12/03/2010 13:24:12 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Units	Cts/S
Avg	**50134.**
Stddev	228.
%RSD	.45426

Sample Name: CalibStd=10000 Acquired: 12/03/2010 13:29:17 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al3092	Al3961	As1890	Ba4934	Ca3179	Ca3968	Co2388	Cr2835	Cu2247	Fe2343	Fe2395	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.048**	**.113**	**.004**	**6.27**	**.139**	**7.91**	**.056**	**.209**	**.177**	**.002**	**.034**	**.013**
Stddev	.001	.003	.000	.08	.004	.23	.001	.005	.003	.000	.001	.000
%RSD	2.90	2.52	1.68	1.33	2.77	2.88	2.43	2.42	1.69	5.25	2.95	3.56

Elem	Mg2802	Mn2576	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068	Sb2175	Se1960	Se2062	Tl1908	V_2908
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.10**	**1.15**	**.674**	**.065**	**.302**	**.010**	**.020**	**.007**	**.007**	**.002**	**.011**	**1.31**
Stddev	.06	.03	.016	.001	.006	.000	.000	.000	.000	.000	.000	.02
%RSD	3.04	2.82	2.31	1.80	1.88	2.15	1.65	1.83	1.87	1.50	1.92	1.66

Elem	Zn2062
Units	Cts/S
Avg	**.181**
Stddev	.004
%RSD	1.96

Int. Std.	Y_3600
Units	Cts/S
Avg	**50253.**
Stddev	916.
%RSD	1.8220

Sample Name: CalibStd-100k Acquired: 12/03/2010 13:35:02 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Cr2835	Mn2593	Pb2169	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.11**	**6.53**	**.098**	**1.50**
Stddev	.01	.02	.001	.01
%RSD	.397	.298	.581	.415

Int. Std.	Y_3600
Units	Cts/S
Avg	**50345.**
Stddev	197.
%RSD	.39078

Sample Name: CalibStd=100000 Acquired: 12/03/2010 13:40:56 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al3092	Al3961	Ca3179	Fe2343	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.461**	**1.09**	**1.33**	**.019**	**.134**
Stddev	.002	.00	.01	.000	.001
%RSD	.390	.399	.353	.791	.493

Int. Std.	Y_3600
Units	Cts/S
Avg	**49360.**
Stddev	372.
%RSD	.75426

Sample Name: CalibStd=500000 Acquired: 12/03/2010 13:46:48 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al3961	Ca3179	Fe2343	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5.72**	**6.21**	**.088**	**.637**
Stddev	.00	.04	.001	.007
%RSD	.010	.658	1.41	1.13

Int. Std.	Y_3600
Units	Cts/S
Avg	**48356.**
Stddev	337.
%RSD	.69793

Sample Name: CalibStd-1000k Acquired: 12/03/2010 13:52:40 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al3961	Ca3179	Fe2343	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**11.1**	**11.5**	**.150**	**1.14**
Stddev	.1	.2	.002	.02
%RSD	.957	1.63	1.64	1.48

Int. Std.	Y_3600
Units	Cts/S
Avg	**47243.**
Stddev	385.
%RSD	.81400

Sample Name: icv Acquired: 12/03/2010 14:04:19 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2388	Cr2677	Cu2247	Fe2395
Avg	**116.**	**12200.**	**2050.**	**2060.**	**50.5**	**10100.**	**49.8**	**518.**	**197.**	**252.**	**4920.**
Stddev	2.	65.	21.	14.	.1	35.	.2	8.	2.	1.	21.
%RSD	1.62	.532	1.00	.677	.291	.347	.483	1.46	.924	.207	.434
Check ?	None	None	None	None	None	None	None	None	None	None	None
Value											
Range											

Elem	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se2062	Tl1908	V_2924	Zn2138
Avg	**10400.**	**508.**	**504.**	**495.**	**499.**	**536.**	**2120.**	**2110.**	**491.**	**505.**
Stddev	80.	1.	2.	2.	2.	10.	54.	15.	1.	2.
%RSD	.765	.244	.323	.345	.333	1.87	2.53	.714	.243	.410
Check ?	None	None	None	None	None	None	None	None	None	None
Value										
Range										

Int. Std.	Y_3600
Avg	**50998.**
Stddev	122.
%RSD	.23904

Sample Name: icb Acquired: 12/03/2010 14:15:22 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1890	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**.016**	**25.9**	**-8.14**	**.479**	**.030**	**25.4**	**-.062**	**.328**	**.945**	**.261**	**22.1**	**28.2**
Stddev	1.05	2.5	5.23	.213	.013	2.5	.223	.028	.076	.898	4.2	3.0
%RSD	6540.	9.71	64.2	44.6	41.7	9.77	361.	8.41	8.00	345.	18.8	10.5
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**.414**	**.913**	**.560**	**.941**	**-1.05**	**-.384**	**.938**	**.226**	**-.551**
Stddev	.143	.850	.641	1.45	3.80	.674	3.54	.085	.153
%RSD	34.6	93.2	115.	154.	362.	175.	378.	37.4	27.8
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**50932.**
Stddev	149.
%RSD	.29297

Sample Name: MRL Acquired: 12/03/2010 14:20:52 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1890	Ba4554	Be3130	Ca3968	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**20.1**	**346.**	**7.68**	**9.83**	**3.95**	**540.**	**5.00**	**10.4**	**10.9**	**11.3**	**289.**	**522.**
Stddev	.0	3.	18.8	.37	.04	.	.08	.3	.6	.1	5.	.
%RSD	.024	.765	245.	3.78	1.05	.030	1.61	2.49	5.29	.540	1.57	.028
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**12.7**	**10.0**	**10.2**	**12.0**	**20.5**	**10.9**	**24.6**	**9.89**	**10.6**
Stddev	.1	.5	.4	1.1	2.5	3.2	1.3	.43	.1
%RSD	.619	5.30	4.04	9.26	12.4	29.3	5.32	4.36	1.40
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**51209.**
Stddev	49.
%RSD	.09568

Sample Name: icsa Acquired: 12/03/2010 14:26:19 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Avg	**.000**	**537000.**	**.003**	**.015**	**.003**	**572000.**	**.081**	**.037**	**.004**	**.000**
Stddev	.398	5370.	9.83	.246	.019	8930.	.035	.331	.846	.189
%RSD	30e15	.998	374000.	1590.	685.	1.56	43.2	891.	23800.	108000.
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2343	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Avg	**486000.**	**516000.**	**.000**	**-.056**	**.027**	**.016**	**.025**	**-.019**	**.086**	**.077**
Stddev	1830.	4630.	.706	.860	.219	2.37	5.72	11.6	7.02	.402
%RSD	.375	.898	1085e6	1540.	808.	14400.	22500.	60300.	8190.	522.
Check ?	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Zn2138
Avg	**.000**
Stddev	.625
%RSD	416000.
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: icsa Acquired: 12/03/2010 14:26:19 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Avg	**47864.**
Stddev	285.
%RSD	.59480

Sample Name: icsab Acquired: 12/03/2010 14:32:18 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be2348	Ca3179	Cd2265	Co2388	Cr2677	Cu2247
Avg	**535.**	**553000.**	**552.**	**595.**	**410.**	**585000.**	**442.**	**442.**	**474.**	**509.**
Stddev	3.	780.	22.	4.	3.	4230.	4.	10.	2.	5.
%RSD	.647	.141	4.05	.602	.716	.723	.962	2.27	.442	.940
Check ?	None	None	None	None	None	None	None	None	None	None
Value										
Range										

Elem	Fe2343	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se2062	Tl1908	V_2924
Avg	**467000.**	**504000.**	**561.**	**527.**	**469.**	**480.**	**580.**	**491.**	**477.**	**536.**
Stddev	4660.	3770.	6.	3.	4.	5.	6.	79.	4.	3.
%RSD	.997	.747	1.15	.604	.883	1.02	1.03	16.1	.937	.570
Check ?	None	None	None	None	None	None	None	None	None	None
Value										
Range										

Elem	Zn2138
Avg	**537.**
Stddev	5.
%RSD	.971
Check ?	None
Value	
Range	

Sample Name: icsab Acquired: 12/03/2010 14:32:18 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Avg	**48226.**
Stddev	399.
%RSD	.82646

Sample Name: ccv1 Acquired: 12/03/2010 22:04:52 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be2348	Ca3179	Cd2265	Co2388	Cr2835	Cu2247	Fe2395	Mg2790
Avg	**481.**	**5220.**	**4970.**	**5230.**	**516.**	**4900.**	**483.**	**5240.**	**4970.**	**5030.**	**5090.**	**4890.**
Stddev	8.	41.	55.	24.	5.	31.	4.	32.	28.	48.	56.	59.
%RSD	1.67	.788	1.10	.466	.900	.634	.908	.617	.554	.948	1.09	1.20
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068	Se2062	Tl1908	V_2908	Zn2062
Avg	**5200.**	**4940.**	**5000.**	**5080.**	**4890.**	**5020.**	**4930.**	**5170.**	**4920.**
Stddev	21.	45.	46.	35.	46.	101.	61.	70.	40.
%RSD	.399	.900	.921	.678	.930	2.02	1.24	1.35	.820
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**49887.**
Stddev	384.
%RSD	.77041

Sample Name: ccv2 Acquired: 12/03/2010 22:10:03 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**53.1**	**460.**	**509.**	**498.**	**49.1**	**500.**	**49.7**	**501.**	**485.**	**519.**	**445.**	**511.**
Stddev	.8	6.	10.	6.	.6	7.	.3	3.	6.	3.	4.	5.
%RSD	1.47	1.25	2.00	1.13	1.21	1.47	.629	.651	1.29	.508	.995	1.05
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se2062	Tl1908	V_2924	Zn2138
Avg	**498.**	**494.**	**513.**	**516.**	**510.**	**539.**	**525.**	**515.**	**503.**
Stddev	2.	6.	5.	5.	8.	50.	5.	7.	6.
%RSD	.379	1.19	.924	.957	1.53	9.24	.883	1.40	1.14
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**50619.**
Stddev	552.
%RSD	1.0895

Sample Name: ccb Acquired: 12/03/2010 22:20:45 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1890	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**-.067**	**10.9**	**-5.26**	**1.10**	**.162**	**14.9**	**-.173**	**.683**	**.754**	**.150**	**15.3**	**5.69**
Stddev	.473	.6	10.3	.25	.087	.1	.115	.198	.448	.296	.2	.03
%RSD	706.	5.26	196.	22.9	53.7	.417	66.4	29.0	59.5	198.	1.35	.542
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**1.24**	**1.08**	**.780**	**.485**	**-3.02**	**1.06**	**7.51**	**.117**	**-.790**
Stddev	.39	.17	.199	1.18	4.86	9.78	1.83	.837	.058
%RSD	31.0	15.6	25.5	243.	161.	918.	24.3	717.	7.40
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**50419.**
Stddev	211.
%RSD	.41890

Sample Name: lcss35623 Acquired: 12/03/2010 22:26:17 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2388	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**86.1**	**3800.**	**3700.**	**3580.**	**88.8**	**177000.**	**74.7**	**972.**	**300.**	**393.**
Stddev	1.1	18.	30.	16.	.7	697.	.7	4.	3.	4.
%RSD	1.27	.460	.821	.445	.744	.395	.954	.436	.911	.970

Elem	Fe2395	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se2062	Tl1908	V_2908
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1460.**	**69200.**	**811.**	**.883**	**857.**	**858.**	**1030.**	**3360.**	**3040.**	**1010.**
Stddev	10.	692.	3.	1.40	6.	8.	7.	25.	21.	7.
%RSD	.677	1.000	.336	159.	.660	.881	.652	.738	.681	.737

Elem	Zn2138
Units	ug/L
Avg	**881.**
Stddev	6.
%RSD	.638

Int. Std.	Y_3600
Units	Cts/S
Avg	**47873.**
Stddev	346.
%RSD	.72230

Sample Name: mbs35623 Acquired: 12/03/2010 22:32:00 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1890	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.057**	**25.7**	**-.269**	**1.36**	**.055**	**25.5**	**-.140**	**.115**	**.911**	**-.387**	**46.3**	**8.15**
Stddev	.065	3.8	3.26	.25	.084	.5	.126	.248	.420	.795	1.2	.23
%RSD	114.	15.0	1210.	18.6	153.	2.10	89.5	216.	46.1	205.	2.49	2.81

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**2.95**	**-.271**	**-.057**	**.599**	**-1.87**	**-4.26**	**1.01**	**-.115**	**-1.05**
Stddev	.11	.519	.122	1.28	3.06	6.41	4.02	.762	.06
%RSD	3.75	191.	214.	213.	164.	151.	399.	664.	5.99

Int. Std.	Y_3600
Units	Cts/S
Avg	**49604.**
Stddev	373.
%RSD	.75194

Sample Name: 869552 Acquired: 12/03/2010 22:37:32 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.492**	**251000.**	**220.**	**1890.**	**13.2**	**94400.**	**5.00**	**193.**	**1150.**	**261.**
Stddev	.753	9200.	24.	76.	.5	3760.	.20	8.	36.	12.
%RSD	153.	3.67	10.9	4.00	3.93	3.98	4.05	4.30	3.14	4.50

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**443000.**	**49200.**	**18900.**	**25.9**	**411.**	**380.**	**27.7**	**15.6**	**2.44**	**450.**
Stddev	20100.	1990.	701.	1.2	17.	14.	3.5	14.2	6.21	15.
%RSD	4.54	4.04	3.72	4.47	4.15	3.73	12.8	90.9	254.	3.33

Elem	Zn2062
Units	ug/L
Avg	**1230.**
Stddev	54.
%RSD	4.38

Int. Std.	Y_3600
Units	Cts/S
Avg	**49226.**
Stddev	1598.
%RSD	3.2464

Sample Name: I869552 Acquired: 12/03/2010 22:43:09 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3092	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247	Fe2343
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.444**	**45800.**	**34.9**	**327.**	**2.50**	**17400.**	**.730**	**37.6**	**205.**	**49.7**	**94400.**
Stddev	.874	910.	22.5	8.	.04	314.	.107	.1	2.	.4	1400.
%RSD	197.	1.99	64.4	2.42	1.73	1.81	14.6	.256	1.05	.814	1.48

Elem	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**10100.**	**3190.**	**4.14**	**80.3**	**73.7**	**5.55**	**3.33**	**.674**	**84.7**	**247.**
Stddev	155.	52.	.63	.3	2.3	2.85	2.59	1.90	.9	2.
%RSD	1.53	1.62	15.2	.378	3.17	51.4	77.6	283.	1.03	.735

Int. Std.	Y_3600
Units	Cts/S
Avg	**50373.**
Stddev	134.
%RSD	.26676

Sample Name: dup869552 Acquired: 12/03/2010 22:48:53 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1.53**	**248000.**	**213.**	**1940.**	**13.0**	**96200.**	**6.19**	**198.**	**1080.**	**269.**
Stddev	.57	311.	2.	1.	.1	103.	.07	1.	6.	4.
%RSD	37.0	.125	1.14	.052	.980	.107	1.21	.640	.549	1.36

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**476000.**	**52300.**	**18100.**	**26.9**	**424.**	**354.**	**30.7**	**23.8**	**2.19**	**467.**
Stddev	229.	23.	49.	1.2	2.	1.	7.4	3.1	6.82	2.
%RSD	.048	.044	.271	4.44	.507	.313	24.1	12.8	312.	.323

Elem	Zn2062
Units	ug/L
Avg	**1270.**
Stddev	5.
%RSD	.388

Int. Std.	Y_3600
Units	Cts/S
Avg	**49896.**
Stddev	194.
%RSD	.38893

Sample Name: mss869552 Acquired: 12/03/2010 22:54:30 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2388	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**82.5**	**385000.**	**3520.**	**5340.**	**94.8**	**425000.**	**75.7**	**942.**	**1230.**	**581.**
Stddev	1.2	1550.	21.	21.	.3	2280.	.2	19.	19.	5.
%RSD	1.47	.401	.597	.396	.344	.536	.312	2.05	1.52	.883

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2216	Pb2169	Sb2068	Se2062	Tl1908	V_2908
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**518000.**	**192000.**	**32800.**	**21.3**	**1110.**	**473.**	**920.**	**3190.**	**2660.**	**1250.**
Stddev	7930.	2330.	232.	.4	7.	18.	11.	79.	16.	7.
%RSD	1.53	1.21	.707	2.08	.591	3.73	1.14	2.48	.608	.588

Elem	Zn2062
Units	ug/L
Avg	**1700.**
Stddev	11.
%RSD	.660

Int. Std.	Y_3600
Units	Cts/S
Avg	**48518.**
Stddev	278.
%RSD	.57225

Sample Name: msds869552 Acquired: 12/03/2010 23:00:05 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2388	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**40.0**	**316000.**	**1810.**	**3440.**	**54.0**	**167000.**	**38.4**	**481.**	**1040.**	**421.**
Stddev	.1	3360.	15.	47.	.5	1920.	.2	25.	16.	4.
%RSD	.209	1.06	.847	1.36	.983	1.15	.519	5.22	1.58	.896

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se2062	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**431000.**	**78300.**	**16200.**	**20.9**	**705.**	**678.**	**91.4**	**1410.**	**1320.**	**811.**
Stddev	10100.	1630.	155.	1.3	8.	9.	6.6	79.	10.	8.
%RSD	2.35	2.08	.961	6.38	1.15	1.35	7.25	5.57	.788	1.03

Elem	Zn2062
Units	ug/L
Avg	**1450.**
Stddev	12.
%RSD	.817

Int. Std.	Y_3600
Units	Cts/S
Avg	**49618.**
Stddev	282.
%RSD	.56850

Sample Name: pdss869552 Acquired: 12/03/2010 23:05:40 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2388	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**42.5**	**359000.**	**1950.**	**3780.**	**60.4**	**189000.**	**38.1**	**449.**	**1200.**	**457.**
Stddev	1.2	8550.	23.	117.	1.7	4920.	.3	26.	19.	4.
%RSD	2.69	2.38	1.16	3.09	2.88	2.60	.897	5.76	1.59	.789

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se2062	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**450000.**	**82500.**	**18500.**	**22.8**	**741.**	**731.**	**108.**	**1550.**	**1380.**	**886.**
Stddev	16600.	2670.	385.	.7	12.	11.	5.	87.	30.	12.
%RSD	3.69	3.24	2.08	3.12	1.60	1.54	4.45	5.59	2.17	1.39

Elem	Zn2062
Units	ug/L
Avg	**1590.**
Stddev	18.
%RSD	1.10

Int. Std.	Y_3600
Units	Cts/S
Avg	**49888.**
Stddev	319.
%RSD	.63910

Sample Name: 869553 Acquired: 12/03/2010 23:11:15 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-2.78**	**226000.**	**189.**	**2000.**	**13.8**	**152000.**	**2.32**	**159.**	**287.**	**219.**
Stddev	1.04	4950.	14.	40.	.3	3420.	.22	1.	1.	2.
%RSD	37.4	2.19	7.62	1.99	2.53	2.26	9.37	.913	.185	.704

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**327000.**	**38900.**	**27800.**	**24.9**	**396.**	**363.**	**11.4**	**3.82**	**11.2**	**444.**
Stddev	6610.	859.	603.	1.7	5.	5.	2.7	7.24	4.7	2.
%RSD	2.02	2.21	2.17	6.68	1.13	1.42	23.9	189.	41.8	.504

Elem	Zn2138
Units	ug/L
Avg	**889.**
Stddev	9.
%RSD	1.01

Int. Std.	Y_3600
Units	Cts/S
Avg	**50534.**
Stddev	163.
%RSD	.32243

Sample Name: 869554 Acquired: 12/03/2010 23:16:54 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-1.97**	**333000.**	**255.**	**2570.**	**18.9**	**169000.**	**3.40**	**231.**	**1410.**	**281.**
Stddev	.23	14900.	11.	114.	.7	7860.	.20	10.	68.	16.
%RSD	11.7	4.48	4.17	4.43	3.89	4.65	5.84	4.50	4.82	5.65

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**490000.**	**60500.**	**35700.**	**32.2**	**463.**	**467.**	**43.9**	**22.7**	**5.25**	**558.**
Stddev	15700.	2440.	1660.	2.2	21.	22.	3.2	1.4	3.44	9.
%RSD	3.20	4.04	4.64	6.83	4.59	4.76	7.21	6.28	65.5	1.54

Elem	Zn2062
Units	ug/L
Avg	**1440.**
Stddev	67.
%RSD	4.61

Int. Std.	Y_3600
Units	Cts/S
Avg	**49417.**
Stddev	383.
%RSD	.77426

Sample Name: ccv1 Acquired: 12/03/2010 23:22:29 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be2348	Ca3179	Cd2288	Co2388	Cr2835	Cu2247	Fe2395	Mg2790
Avg	**484.**	**5260.**	**5130.**	**5320.**	**528.**	**5100.**	**525.**	**5480.**	**5200.**	**5180.**	**5110.**	**4730.**
Stddev	7.	60.	37.	75.	9.	68.	4.	58.	72.	48.	61.	41.
%RSD	1.39	1.14	.724	1.40	1.64	1.33	.831	1.06	1.39	.933	1.19	.871
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068	Se2062	Tl1908	V_2908	Zn2062
Avg	**5620.**	**5110.**	**5140.**	**5230.**	**5040.**	**5210.**	**5070.**	**5500.**	**5130.**
Stddev	70.	45.	42.	54.	25.	9.	44.	43.	43.
%RSD	1.25	.882	.811	1.03	.505	.182	.874	.779	.846
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**48971.**
Stddev	380.
%RSD	.77681

Sample Name: ccv2 Acquired: 12/03/2010 23:27:39 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**53.5**	**484.**	**512.**	**516.**	**51.5**	**545.**	**53.6**	**529.**	**526.**	**549.**	**476.**	**528.**
Stddev	.6	1.	2.	4.	.2	4.	.7	3.	3.	3.	4.	3.
%RSD	1.16	.227	.302	.812	.445	.814	1.26	.523	.622	.598	.769	.506
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se2062	Tl1908	V_2924	Zn2138
Avg	**526.**	**511.**	**532.**	**532.**	**510.**	**524.**	**546.**	**532.**	**523.**
Stddev	2.	4.	3.	3.	5.	8.	12.	3.	3.
%RSD	.457	.764	.609	.654	.908	1.57	2.14	.621	.554
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**49391.**
Stddev	203.
%RSD	.41098

Sample Name: ccb Acquired: 12/03/2010 23:38:22 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1890	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**.304**	**16.1**	**4.75**	**1.30**	**.127**	**17.2**	**-.077**	**1.34**	**1.48**	**1.62**	**23.2**	**6.58**
Stddev	.558	.7	3.46	.10	.027	.1	.073	.05	.23	.64	.9	.09
%RSD	184.	4.30	72.8	7.97	21.2	.435	94.9	3.69	15.6	39.7	3.81	1.30
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**1.60**	**.670**	**1.35**	**2.52**	**-1.94**	**-6.39**	**3.61**	**.914**	**-.577**
Stddev	.38	.557	.26	1.57	2.17	1.60	4.35	.546	.106
%RSD	23.6	83.2	19.3	62.5	112.	25.0	120.	59.7	18.4
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**49425.**
Stddev	311.
%RSD	.62921

Sample Name: 869555 Acquired: 12/03/2010 23:43:53 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1.93**	**213000.**	**220.**	**2270.**	**15.8**	**190000.**	**1.54**	**129.**	**1120.**	**173.**
Stddev	.29	14600.	24.	181.	1.2	20500.	.29	6.	76.	5.
%RSD	14.9	6.85	10.8	7.97	7.64	10.8	19.2	4.38	6.77	3.06

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**403000.**	**47000.**	**24700.**	**23.0**	**366.**	**473.**	**33.8**	**33.3**	**7.43**	**343.**
Stddev	29500.	3610.	1720.	1.8	16.	21.	5.1	3.4	4.21	6.
%RSD	7.32	7.69	6.97	7.67	4.35	4.36	15.2	10.1	56.6	1.84

Elem	Zn2138
Units	ug/L
Avg	**864.**
Stddev	39.
%RSD	4.52

Int. Std.	Y_3600
Units	Cts/S
Avg	**50098.**
Stddev	258.
%RSD	.51399

Sample Name: 869556 Acquired: 12/03/2010 23:49:36 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-.176**	**209000.**	**217.**	**2000.**	**13.7**	**261000.**	**2.44**	**157.**	**353.**	**204.**
Stddev	.562	11800.	5.	120.	.6	15400.	.55	1.	3.	2.
%RSD	319.	5.64	2.52	5.97	4.35	5.92	22.3	.712	.984	.868

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**371000.**	**62700.**	**26000.**	**20.1**	**311.**	**372.**	**3420.**	**6.86**	**8.25**	**339.**
Stddev	19300.	3280.	1430.	1.0	3.	4.	35.	21.3	10.7	3.
%RSD	5.20	5.24	5.53	4.87	.896	1.05	1.04	311.	129.	.858

Elem	Zn2062
Units	ug/L
Avg	**1080.**
Stddev	13.
%RSD	1.15

Int. Std.	Y_3600
Units	Cts/S
Avg	**49604.**
Stddev	93.
%RSD	.18778

Sample Name: ccv1 Acquired: 12/04/2010 00:38:34 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be2348	Ca3179	Cd2288	Co2388	Cr2835	Cu2247	Fe2395	Mg2802
Avg	**491.**	**5080.**	**4960.**	**4910.**	**494.**	**4770.**	**507.**	**5240.**	**4950.**	**4780.**	**4510.**	**4370.**
Stddev	4.	31.	31.	10.	1.	12.	4.	14.	17.	38.	24.	6.
%RSD	.816	.613	.624	.203	.246	.248	.768	.274	.342	.794	.539	.131
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068	Se2062	Tl1908	V_2908	Zn2062
Avg	**5310.**	**4880.**	**4740.**	**5030.**	**5220.**	**4730.**	**4670.**	**5460.**	**5020.**
Stddev	14.	27.	37.	34.	28.	18.	37.	41.	24.
%RSD	.262	.547	.777	.678	.547	.382	.786	.754	.482
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**49845.**
Stddev	272.
%RSD	.54506

Sample Name: ccv2 Acquired: 12/04/2010 00:43:45 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1890	Ba4554	Be3130	Ca3968	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**53.2**	**484.**	**523.**	**530.**	**49.3**	**544.**	**46.0**	**487.**	**456.**	**498.**	**452.**	**521.**
Stddev	.4	4.	6.	.	.2	3.	.5	2.	3.	3.	4.	2.
%RSD	.710	.920	1.12	.069	.420	.540	1.05	.511	.625	.610	.799	.295
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se2062	Tl1908	V_2924	Zn2138
Avg	**460.**	**495.**	**517.**	**523.**	**552.**	**486.**	**503.**	**528.**	**507.**
Stddev	5.	3.	3.	4.	4.	31.	6.	4.	3.
%RSD	1.05	.596	.515	.733	.747	6.40	1.25	.802	.604
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**50205.**
Stddev	276.
%RSD	.54984

Sample Name: ccb Acquired: 12/04/2010 00:54:27 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

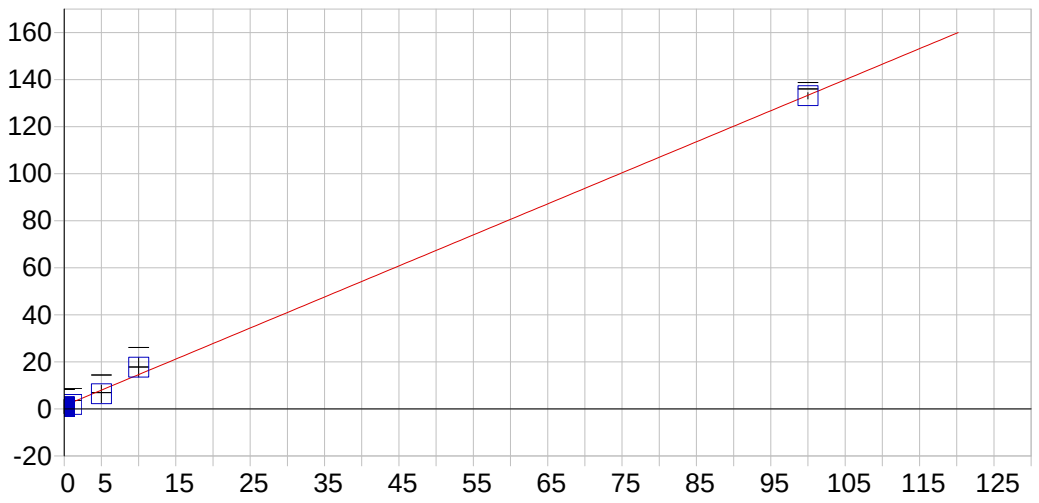
Elem	Ag3280	Al1670	As1890	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**.817**	**23.4**	**2.15**	**2.02**	**.219**	**21.3**	**-.149**	**1.20**	**1.49**	**1.07**	**31.2**	**8.82**
Stddev	.605	2.8	13.3	.28	.025	.1	.117	.07	.24	.33	1.3	.04
%RSD	74.0	11.9	619.	13.7	11.4	.523	78.2	5.96	16.0	30.5	4.08	.402
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**2.48**	**1.71**	**1.18**	**2.15**	**-2.88**	**-9.17**	**1.79**	**1.29**	**-.260**
Stddev	.72	1.05	.12	2.17	1.61	4.63	7.87	.89	.251
%RSD	29.0	61.5	10.4	101.	56.0	50.5	439.	68.6	96.6
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**49212.**
Stddev	27.
%RSD	.05588

	Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)	Correlation	Std Error of Est	Predicted MDL
	Ag 328.068 {103}	12/09/2010 14:56:26	12/09/2010 14:56:26	Linear	None	1.387742	1.319875	0.000000	1.000000	0.999491	2.096624	3.549819
	Ag 338.289 {100}	12/09/2010 14:14:07	12/09/2010 14:14:07	Linear	None	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	-1.000000
	Al 167.079 {502}	12/09/2010 15:01:23	12/09/2010 15:01:23	Linear	None	0.492931	0.073097	0.000000	1.000000	0.999984	0.187572	3.257682
	Al 309.271 {109}	12/09/2010 15:17:48	12/09/2010 15:17:48	Linear	1/Conc	29.555062	0.212418	0.000000	1.000000	0.999812	1.937608	19.087408
	Al 396.152 { 85}	12/09/2010 15:29:24	12/09/2010 15:29:24	Full Fit	1/Conc	7.763901	0.516818	-0.000000	1.010000	0.999967	9.889395	12.295726
	As 189.042 {479}	12/09/2010 15:06:47	12/09/2010 15:06:47	Linear	1/Conc	-0.208401	0.019708	0.000000	1.000000	0.999717	0.022067	15.192265
	As 193.759 {474}	12/09/2010 15:01:23	12/09/2010 15:01:23	Linear	None	-0.266421	0.028282	0.000000	1.000000	0.999818	0.268817	14.794132
	Ba 455.403 { 74}	12/09/2010 14:56:26	12/09/2010 14:56:26	Linear	1/Conc	-0.930468	28.243410	0.000000	1.000000	0.999731	0.334359	0.364729
	Ba 493.409 { 68}	12/09/2010 15:06:47	12/09/2010 15:06:47	Linear	1/Conc	1078.60991	34.920861	0.000000	1.000000	0.999985	35.150037	0.556132
	Be 234.861 {144}	12/09/2010 15:01:23	12/09/2010 15:01:23	Linear	None	-0.006779	2.619928	0.000000	1.000000	1.000000	0.734160	0.493099
	Be 313.042 {108}	12/09/2010 15:01:23	12/09/2010 15:01:23	Linear	1/Conc	4.333082	41.674118	0.000000	1.000000	0.999957	0.242198	0.099827
	Ca 317.933 {106}	12/09/2010 15:29:24	12/09/2010 15:29:24	Full Fit	1/Conc	304.915696	0.550779	-0.000000	0.990000	0.999999	1.013332	3.872254
	Ca 393.366 { 86}	12/09/2010 15:01:23	12/09/2010 15:01:23	Linear	None	2781.01129	93.451675	0.000000	1.000000	0.999471	2424.11408	0.057420
	Ca 396.847 { 85}	12/09/2010 15:06:47	12/09/2010 15:06:47	Linear	1/Conc	1610.72624	32.690719	0.000000	1.000000	0.999435	51.750985	0.110952
	Cd 226.502 {449}	12/09/2010 15:01:23	12/09/2010 15:01:23	Linear	1/Conc	0.031189	4.281043	0.000000	1.000000	0.999936	0.029636	0.141983
	Cd 228.802 {447}	12/09/2010 15:01:23	12/09/2010 15:01:23	Linear	None	4.577199	3.611810	0.000000	1.000000	0.999998	5.315738	0.174985
	Co 228.616 {447}	12/09/2010 15:01:23	12/09/2010 15:01:23	Linear	1/Conc	0.143844	2.052087	0.000000	1.000000	0.999952	0.020614	0.258407
	Co 238.892 {141}	12/09/2010 15:06:47	12/09/2010 15:06:47	Linear	1/Conc	0.911885	0.217562	0.000000	1.000000	0.999978	0.260835	5.464256
	Cr 267.716 {126}	12/09/2010 15:01:23	12/09/2010 15:01:23	Linear	1/Conc	0.830505	0.622393	0.000000	1.000000	0.997273	0.057875	3.335292
	Cr 283.563 {119}	12/09/2010 15:12:13	12/09/2010 15:12:13	Linear	1/Conc	2.350355	0.837024	0.000000	1.000000	0.999994	0.273051	2.812662
	Cu 224.700 {450}	12/09/2010 15:06:47	12/09/2010 15:06:47	Linear	1/Conc	5.179590	0.801614	0.000000	1.000000	0.999785	0.146969	0.678355
	Cu 324.754 {104}	12/09/2010 15:12:13	12/09/2010 15:12:13	Linear	None	126.323575	0.219699	0.000000	1.000000	0.999997	34.203226	13.246221
	Cu 327.396 {103}	12/09/2010 15:01:23	12/09/2010 15:01:23	Linear	None	5.805320	0.405013	0.000000	1.000000	0.999968	1.431674	11.871052
	Fe 234.349 {144}	12/09/2010 15:29:24	12/09/2010 15:29:24	Full Fit	None	5.699243	0.072038	-0.000000	0.990000	1.000000	6.164771	11.076523
	Fe 239.562 {141}	12/09/2010 15:06:47	12/09/2010 15:06:47	Linear	None	5.586650	0.174659	0.000000	1.000000	0.999992	5.438125	5.469373
	Fe 259.940 {130}	12/09/2010 15:01:23	12/09/2010 15:01:23	Linear	None	4.225604	0.645523	0.000000	1.000000	0.999981	1.997258	2.917910
	Mg 279.079 {121}	12/10/2010 07:01:40	12/09/2010 15:29:24	Full Fit	1/Conc	0.150746	0.013268	-0.000000	1.020000	0.999968	0.343773	86.334352
	Mg 279.553 {121}	12/09/2010 14:51:15	12/09/2010 14:51:15	Linear	None	32.147694	7.457203	0.000000	1.000000	0.995120	19.563216	0.159353
	Mg 280.270 {120}	12/09/2010 15:06:47	12/09/2010 15:06:47	Linear	1/Conc	60.980935	10.237574	0.000000	1.000000	0.999893	27.213016	0.148188
	Mn 257.610 {131}	12/09/2010 15:06:47	12/09/2010 15:06:47	Linear	1/Conc	0.592726	3.829402	0.000000	1.000000	0.999908	0.197048	0.503904
	Mn 259.373 {130}	12/09/2010 15:12:13	12/09/2010 15:12:13	Linear	1/Conc	1.811593	3.018035	0.000000	1.000000	0.999923	17.641198	0.770488
	Mo 202.030 {467}	12/09/2010 15:01:23	12/09/2010 15:01:23	Linear	None	0.491792	0.458041	0.000000	1.000000	0.999999	0.200376	0.775578
	Mo 203.844 {465}	12/09/2010 15:01:23	12/09/2010 15:01:23	Linear	None	0.559627	0.234543	0.000000	1.000000	0.999999	0.141078	1.558272
	Mo 204.598 {465}	12/09/2010 15:06:47	12/09/2010 15:06:47	Linear	1/Conc	0.428810	0.336474	0.000000	1.000000	0.999901	0.144580	1.191711
	Ni 221.647 {452}	12/09/2010 15:06:47	12/09/2010 15:06:47	Linear	1/Conc	-0.133583	1.412114	0.000000	1.000000	0.999634	1.799867	0.500960
	Ni 231.604 {445}	12/09/2010 15:01:23	12/09/2010 15:01:23	Linear	None	0.339264	1.050200	0.000000	1.000000	0.999987	1.756972	0.582053
	Pb 216.999 {455}	12/09/2010 15:12:13	12/09/2010 15:12:13	Full Fit	None	0.408394	0.093517	0.000000	0.960000	1.000000	0.000000	6.306988
	Pb 220.353 {453}	12/09/2010 15:01:23	12/09/2010 15:01:23	Linear	1/Conc	-0.000003	0.000008	0.000000	1.000000	0.999634	0.000001	1.729987
	Sb 206.833 {463}	12/09/2010 15:06:47	12/09/2010 15:06:47	Linear	1/Conc	-0.000003	0.000003	0.000000	1.000000	0.999935	0.000000	3.415680

Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)	Correlation	Std Error of Est	Predicted MDL
Sb 217.581 {455}	12/09/2010 15:06:47	12/09/2010 15:06:47	Linear	1/Conc	-0.108791	0.179114	0.000000	1.000000	0.999963	0.019984	3.632934
Se 196.090 {472}	12/09/2010 15:06:47	12/09/2010 15:06:47	Linear	1/Conc	0.199523	0.031951	0.000000	1.000000	0.999611	0.011524	10.087391
Se 206.279 {463}	12/09/2010 15:06:47	12/09/2010 15:06:47	Linear	None	0.238662	0.008442	0.000000	1.000000	0.999968	0.524368	48.233961
Tl 190.856 {477}	12/09/2010 15:06:47	12/09/2010 15:06:47	Linear	None	-0.000001	0.000001	0.000000	1.000000	0.999963	0.000004	7.194077
Tl 276.787 {122}	12/09/2010 15:06:47	12/09/2010 15:06:47	Linear	None	-0.000009	0.000000	0.000000	1.000000	0.999944	0.000029	133.950114
V 290.882 {116}	12/09/2010 15:06:47	12/09/2010 15:06:47	Linear	None	0.000331	0.000018	0.000000	1.000000	0.999998	0.000293	3.996109
V 292.402 {115}	12/09/2010 15:01:23	12/09/2010 15:01:23	Linear	None	-0.000009	0.000015	0.000000	1.000000	0.999995	0.000019	4.392894
Zn 206.200 {463}	12/09/2010 15:12:13	12/09/2010 15:12:13	Full Fit	None	0.000090	0.000026	-0.000000	0.970000	1.000000	0.000000	0.321901
Zn 213.856 {458}	12/09/2010 15:01:23	12/09/2010 15:01:23	Linear	1/Conc	0.000244	0.000045	0.000000	1.000000	0.999651	0.000005	0.198099
Y 360.073 { 94}*	12/09/2010 14:14:07	12/09/2010 14:14:07	Linear	None	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	-1.000000
B 249.773 {135}	12/09/2010 15:01:23	12/09/2010 15:01:23	Linear	None	0.000002	0.000006	0.000000	1.000000	0.999998	0.000007	5.696604
Li 670.784 { 50}	12/09/2010 15:01:23	12/09/2010 15:01:23	Linear	None	0.000155	0.000273	0.000000	1.000000	0.999993	0.000469	1.223928
Na 330.298 {102}	12/09/2010 15:17:48	12/09/2010 15:17:48	Linear	1/Conc	0.000025	0.000000	0.000000	1.000000	1.000000	0.000000	2666.91158
Si 251.611 {134}	12/09/2010 15:01:23	12/09/2010 15:01:23	Linear	None	0.000049	0.000000	0.000000	1.000000	1.000000	0.000000	321.273392
Sr 407.771 { 83}	12/09/2010 15:06:47	12/09/2010 15:06:47	Linear	1/Conc	-0.001234	0.001338	0.000000	1.000000	0.999763	0.000112	0.087288
Ti 334.941 {101}	12/09/2010 15:01:23	12/09/2010 15:01:23	Linear	1/Conc	0.000019	0.000076	0.000000	1.000000	0.999923	0.000004	0.905839

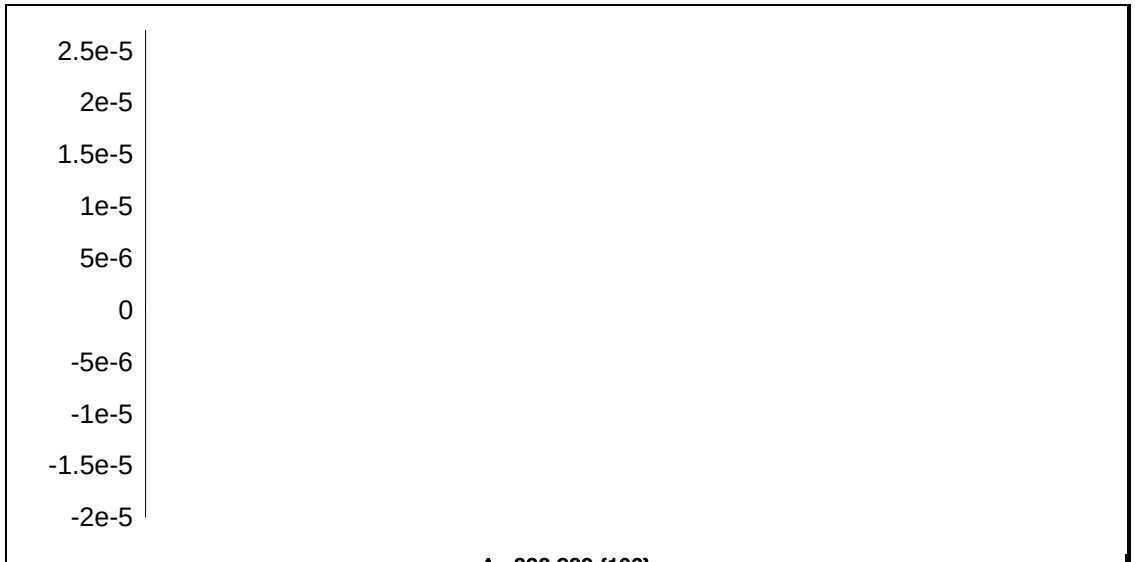


Ag 328.068 {103}

Date of Fit:	12/09/2010 14:56:26	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	1.387742	Re-Slope:	1.000000
A1 (Gain):	1.319875	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999491	Status:	OK.
Std Error of Est:	2.096624		
Predicted MDL:	3.549819		
Predicted MQL:	11.832730		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.30682	-.307	.000	.98278	3.00	1
CalibStd=100	100.00	99.832	-.168	-.168	133.15	1.37	1
CalibStd=10	10.000	12.352	2.35	23.5	17.691	4.15	1
CalibStd=1	1.0000	.33717	-.663	-66.3	1.8328	2.65	1
CalibStd=5	5.0000	3.7853	-1.21	-24.3	6.3839	3.76	1

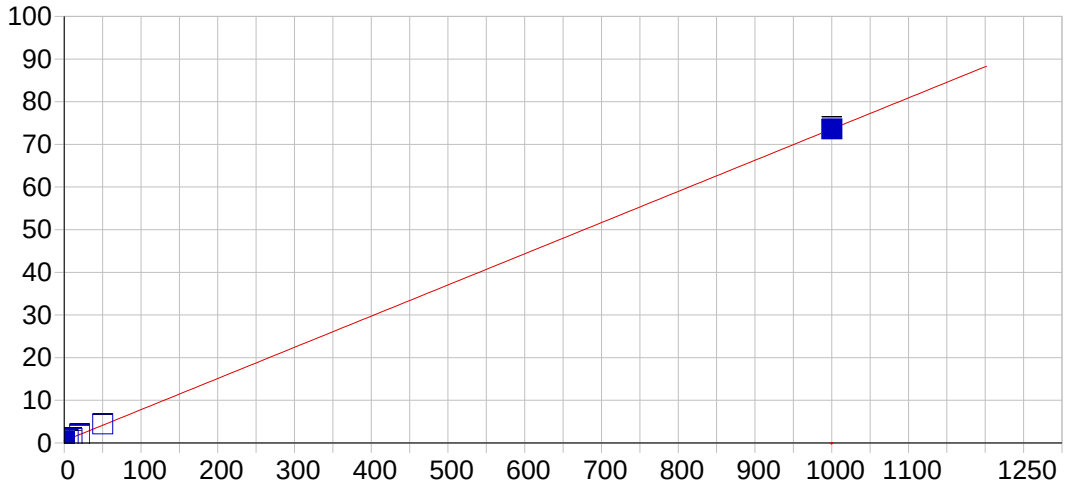


Ag 338.289 {100}

Date of Fit:	12/09/2010 14:14:07	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning Zero Gain
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00000	.000	1

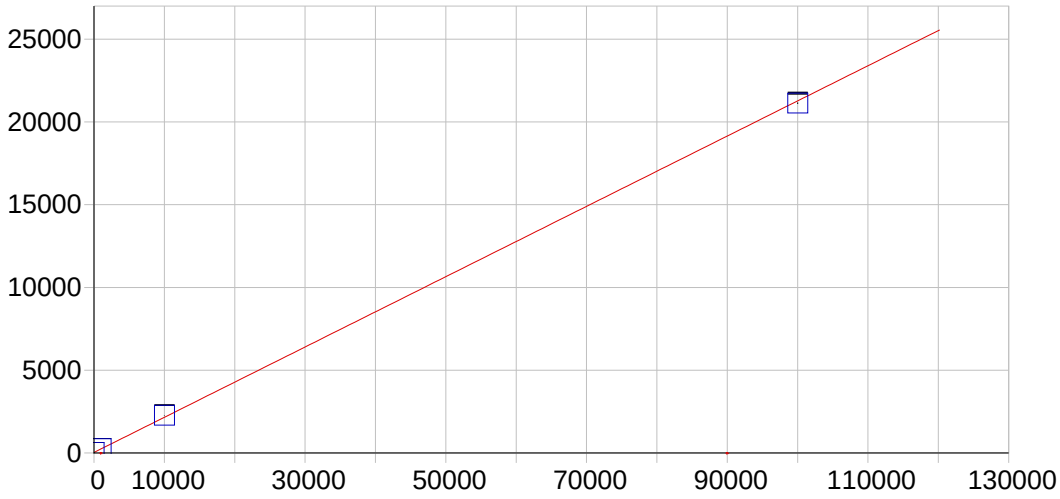


Al 167.079 {502}

Date of Fit:	12/09/2010 15:01:23	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.492931	Re-Slope:	1.000000
A1 (Gain):	0.073097	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999984	Status:	OK.
Std Error of Est:	0.187572		
Predicted MDL:	3.257682		
Predicted MQL:	10.858939		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.06283	-.063	.000	.48834	.022	1
CalibStd=100	1000.0	999.83	-.169	-.017	73.623	.527	1
CalibStd=20	20.000	20.548	.548	2.74	1.9950	.147	1
CalibStd=10	10.000	6.8969	-3.10	-31.0	.99707	.334	1
CalibStd=5	5.0000	3.8937	-1.11	-22.1	.77754	.212	1
CalibStd=50	50.000	53.893	3.89	7.79	4.4323	.028	1

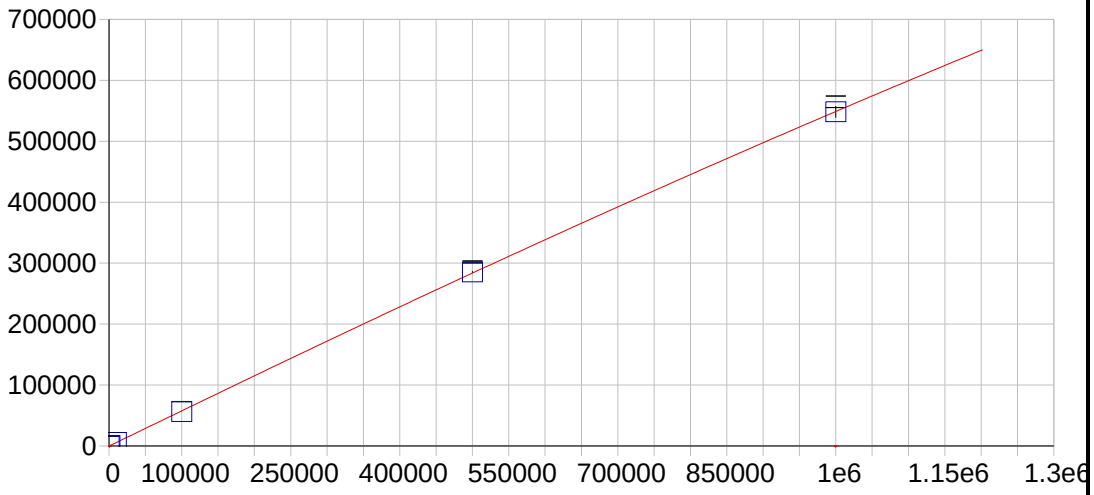


Al 309.271 {109}

Date of Fit:	12/09/2010 15:17:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	29.555062	Re-Slope:	1.000000
A1 (Gain):	0.212418	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999812	Status:	OK.
Std Error of Est:	1.937608		
Predicted MDL:	19.087408		
Predicted MQL:	63.624694		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.11728	-.117	.000	29.530	3.52	1
CalibStd=100	10000.	10576.	576.	5.76	2276.0	17.4	1
CalibStd=100	100000.	99358.	-642.	-.642	21135.	47.9	1
CalibStd=100	1000.0	1066.1	66.1	6.61	256.02	2.48	1

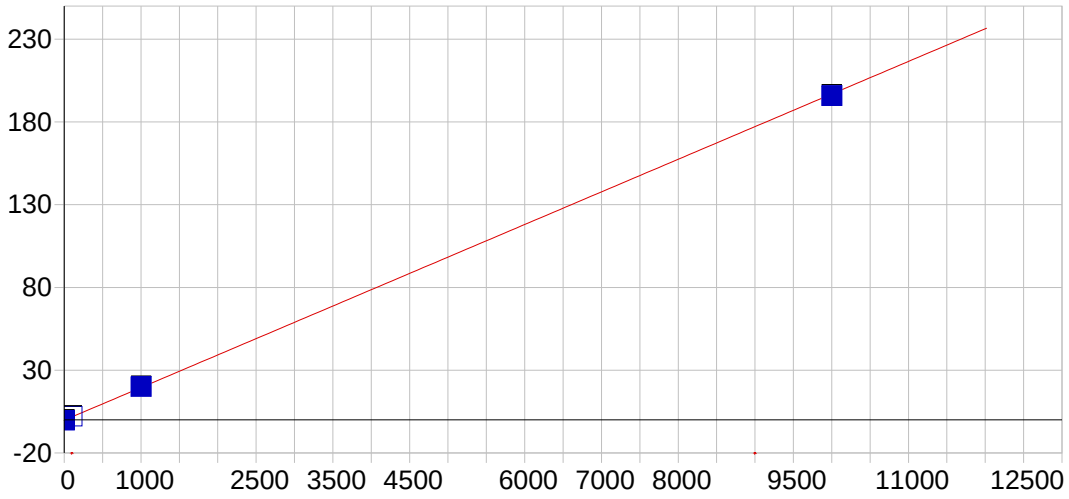


Al 396.152 { 85}

Date of Fit:	12/09/2010 15:29:24	Type of Fit:	Full Fit	Weighting:	1/Conc

A0 (Offset):	7.763901	Re-Slope:	1.000000
A1 (Gain):	0.516818	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	1.010000		
Correlation:	0.999967	Status:	OK.
Std Error of Est:	9.889395		
Predicted MDL:	12.295726		
Predicted MQL:	40.985753		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	7.6970	1.38	1
CalibStd=100	100000.	97774.	-2230.	-2.23	56286.	126.	1
CalibStd-100	1000000.	998640.	-1360.	-.136	548220.	9470.	1
CalibStd=500	500000.	502990.	2990.	.597	285330.	1530.	1
CalibStd=100	1000.0	1087.9	87.9	8.79	610.66	.940	1
CalibStd=100	10000.	10489.	489.	4.89	5950.3	48.3	1

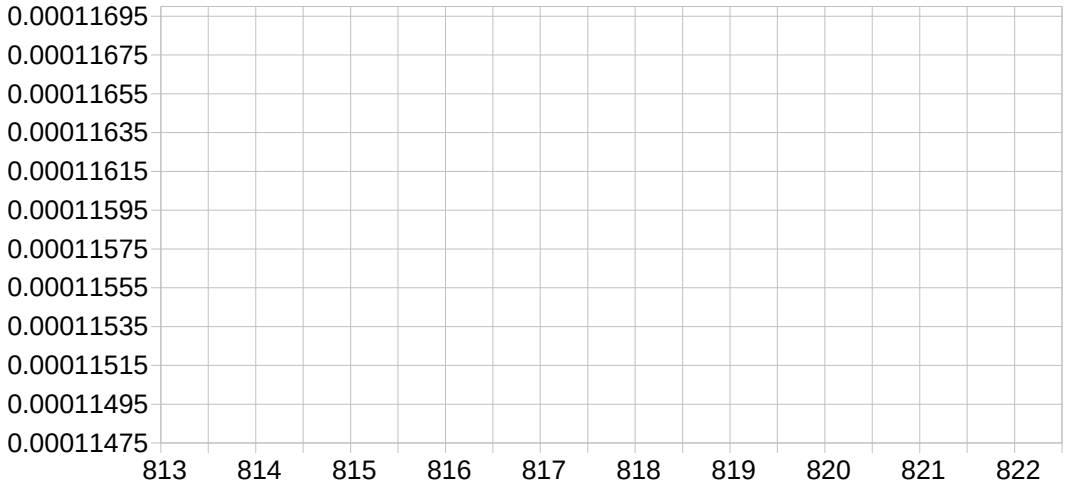


As 189.042 {479}

Date of Fit:	12/09/2010 15:06:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.208401	Re-Slope:	1.000000
A1 (Gain):	0.019708	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999717	Status:	OK.
Std Error of Est:	0.022067		
Predicted MDL:	15.192265		
Predicted MQL:	50.640883		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.02510	-.025	.000	-.20890	.078	1
CalibStd=100	1000.0	1029.0	29.0	2.90	20.071	.150	1
CalibStd=100	10000.	9948.2	-51.8	-.518	195.85	.503	1
CalibStd=100	100.00	122.71	22.7	22.7	2.2100	.233	1



As 193.759 {474}

Date of Fit:	12/09/2010 15:01:23	Type of Fit:	Linear	Weighting:	None

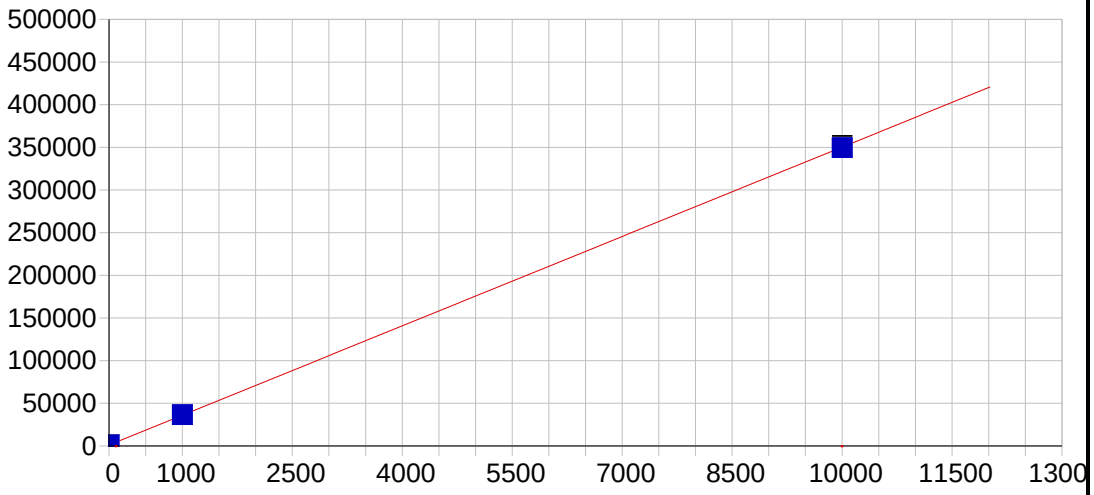
A0 (Offset):	-0.266421	Re-Slope:	1.000000
A1 (Gain):	0.028282	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999818	Status:	OK.
Std Error of Est:	0.268817		
Predicted MDL:	14.794132		
Predicted MQL:	49.313773		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-9.5497	-9.55	.000	-.53651	.487	1
CalibStd=100	1000.0	999.49	-.514	-.051	28.031	.334	1
CalibStd=50	50.000	63.208	13.2	26.4	1.5212	.173	1
CalibStd=10	10.000	8.1241	-1.88	-18.8	-.03666	.325	1
CalibStd=100	100.00	98.732	-1.27	-1.27	2.5259	.286	1

Ba 455.403 { 74}

Date of Fit:	12/09/2010 14:56:26	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	-0.930468		Re-Slope:	1.000000	
A1 (Gain):	28.243410		Y-int:	0.000000	
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.999731		Status:	OK.	
Std Error of Est:	0.334359				
Predicted MDL:	0.364729				
Predicted MQL:	1.215765				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00014	.000	.000	-.93439	4.36	1
CalibStd=50	50.000	50.953	.953	1.91	1438.2	2.51	1
CalibStd=10	10.000	10.034	.034	.339	282.46	1.13	1
CalibStd=20	20.000	20.695	.695	3.48	583.57	5.48	1
CalibStd=100	100.00	98.412	-1.59	-1.59	2778.6	19.7	1
CalibStd=1	1.0000	1.1453	.145	14.5	31.418	7.05	1
CalibStd=5	5.0000	4.7607	-.239	-4.79	133.53	1.51	1

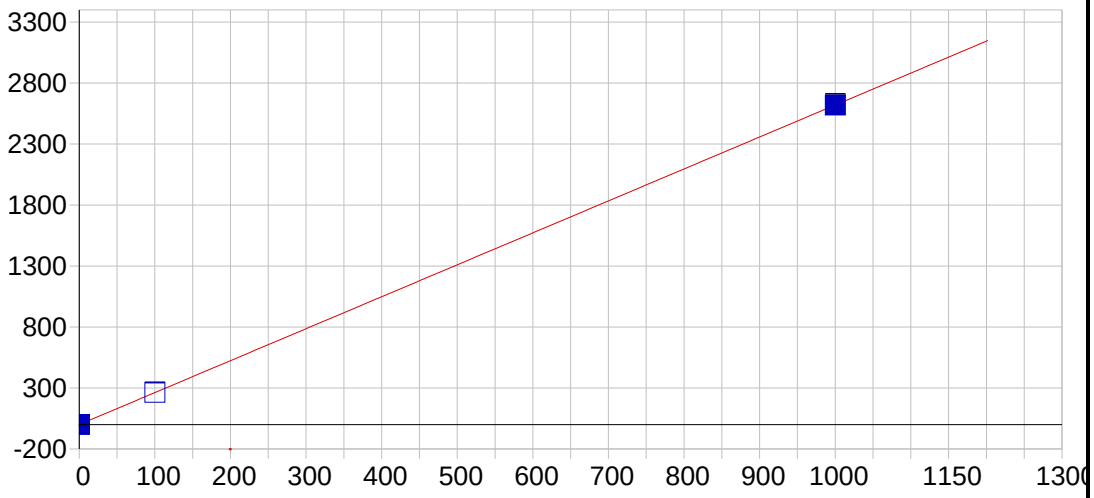


Ba 493.409 { 68}

Date of Fit:	12/09/2010 15:06:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	1078.609910	Re-Slope:	1.000000
A1 (Gain):	34.920861	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999985	Status:	OK.
Std Error of Est:	35.150037		
Predicted MDL:	0.556132		
Predicted MQL:	1.853772		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.01577	-.016	.000	1078.1	22.0	1
CalibStd=100	1000.0	1017.5	17.5	1.75	36613.	172.	1
CalibStd=100	10000.	9982.5	-17.5	-.175	349690.	2030.	1

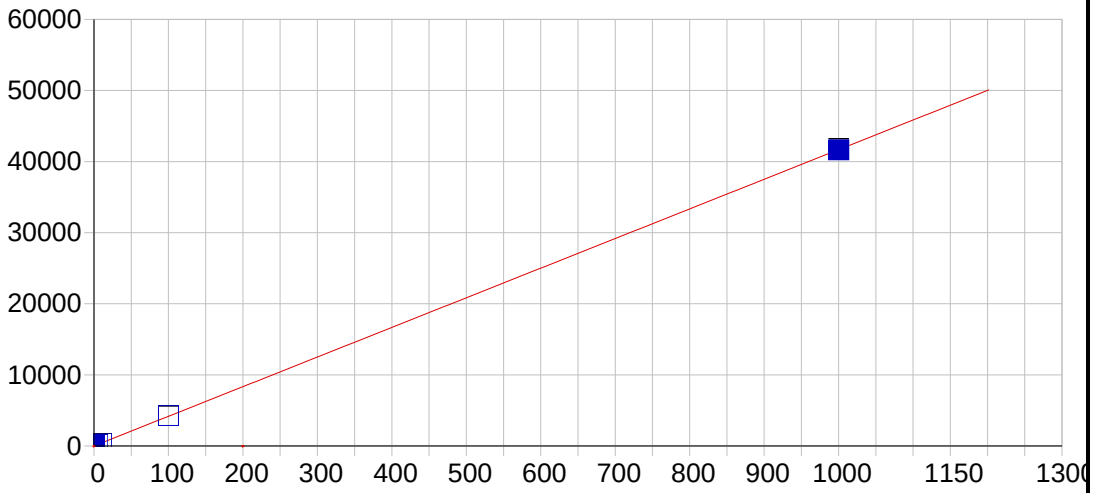


Be 234.861 {144}

Date of Fit:	12/09/2010 15:01:23	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-0.006779	Re-Slope:	1.000000
A1 (Gain):	2.619928	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.734160		
Predicted MDL:	0.493099		
Predicted MQL:	1.643665		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.18694	-.187	.000	-.49655	.294	1
CalibStd=100	1000.0	999.98	-.021	-.002	2619.6	8.13	1
CalibStd=100	100.00	100.21	.208	.208	262.53	2.10	1

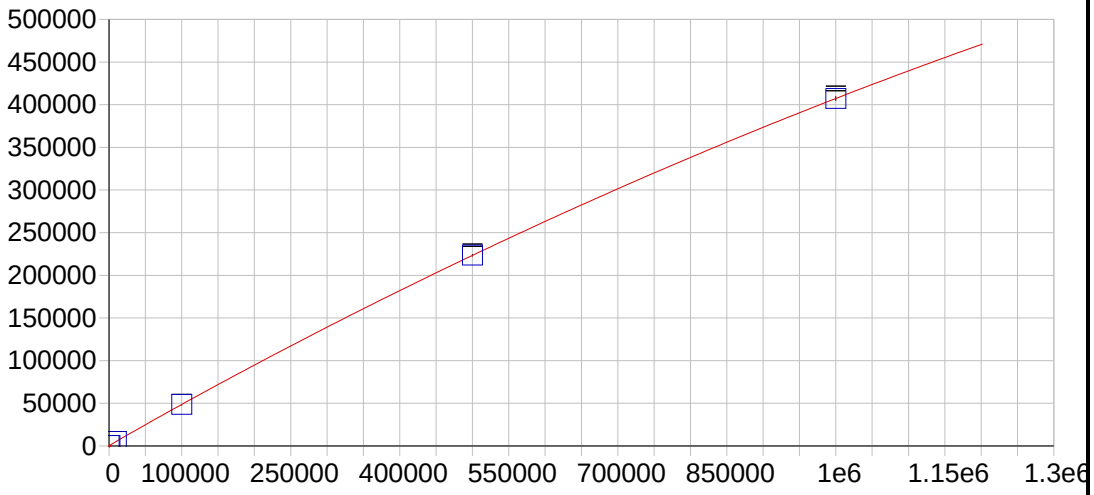


Be 313.042 {108}

Date of Fit:	12/09/2010 15:01:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	4.333082	Re-Slope:	1.000000
A1 (Gain):	41.674118	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999957	Status:	OK.
Std Error of Est:	0.242198		
Predicted MDL:	0.099827		
Predicted MQL:	0.332756		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00013	.000	.000	4.3385	2.59	1
CalibStd=10	10.000	9.5443	-.456	-4.56	402.08	4.02	1
CalibStd=100	100.00	101.74	1.74	1.74	4244.4	18.4	1
CalibStd=0.5	.50000	.41012	-.090	-18.0	21.425	1.80	1
CalibStd=5	5.0000	4.7655	-.234	-4.69	202.93	1.21	1
CalibStd=0.2	.25000	.18383	-.066	-26.5	11.994	1.75	1
CalibStd=100	1000.0	999.10	-.896	-.090	41641.	143.	1

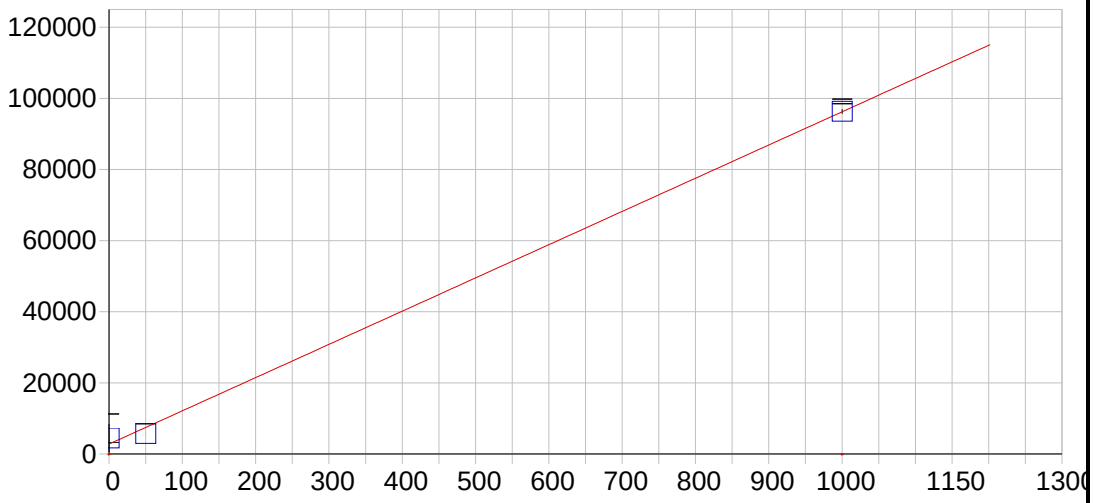


Ca 317.933 {106}

Date of Fit:	12/09/2010 15:29:24	Type of Fit:	Full Fit	Weighting:	1/Conc

A0 (Offset):	304.915696	Re-Slope:	1.000000
A1 (Gain):	0.550779	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	0.990000		
Correlation:	0.999999	Status:	OK.
Std Error of Est:	1.013332		
Predicted MDL:	3.872254		
Predicted MQL:	12.907514		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.02045	.020	.000	304.93	18.1	1
CalibStd=100	10000.	10044.	43.8	.438	5341.8	26.8	1
CalibStd=100	100000.	99816.	-184.	-.184	48545.	39.0	1
CalibStd=500	500000.	500350.	353.	.071	223540.	1400.	1
CalibStd-100	1000000.	999810.	-192.	-.019	407230.	2760.	1
CalibStd=100	1000.0	973.99	-26.0	-2.60	805.62	.981	1

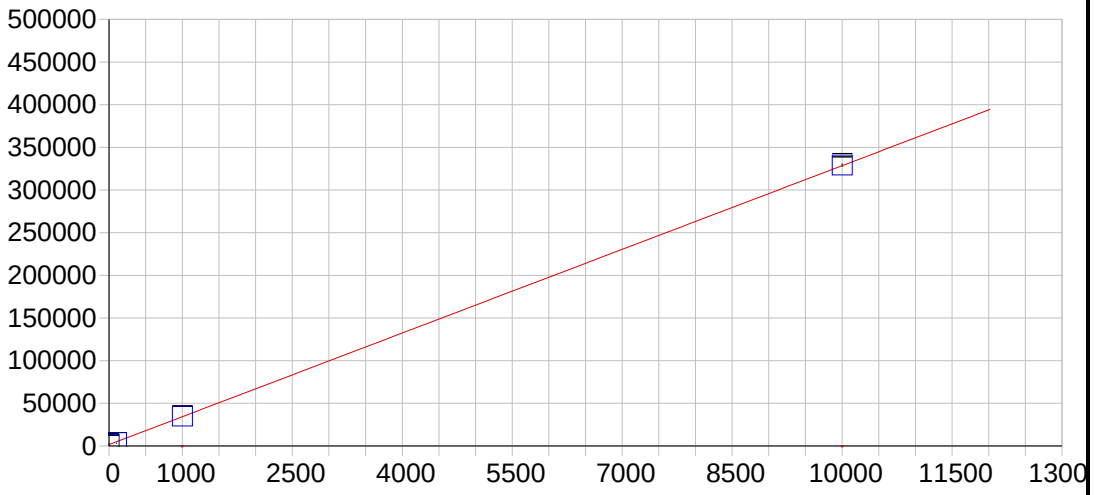


Ca 393.366 { 86}

Date of Fit:	12/09/2010 15:01:23	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	2781.011296	Re-Slope:	1.000000
A1 (Gain):	93.451675	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999471	Status:	OK.
Std Error of Est:	2424.114089		
Predicted MDL:	0.057420		
Predicted MQL:	0.191400		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	17.854	17.9	.000	4449.5	3950.	1
CalibStd=50	50.000	31.206	-18.8	-37.6	5697.3	23.1	1
CalibStd=100	1000.0	1000.9	.940	.094	96321.	638.	1

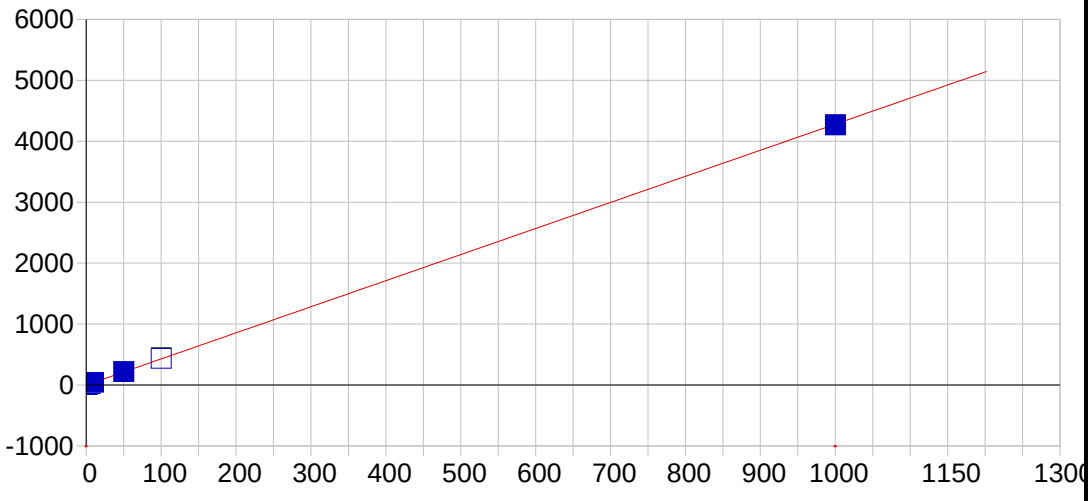


Ca 396.847 { 85}

Date of Fit:	12/09/2010 15:06:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	1610.726240	Re-Slope:	1.000000
A1 (Gain):	32.690719	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999435	Status:	OK.
Std Error of Est:	51.750985		
Predicted MDL:	0.110952		
Predicted MQL:	0.369841		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.03296	.033	.000	1611.8	1430.	1
CalibStd=100	10000.	10017.	17.1	.171	329080.	1930.	1
CalibStd=100	100.00	65.091	-34.9	-34.9	3738.6	8.60	1
CalibStd=100	1000.0	1017.8	17.8	1.78	34884.	244.	1

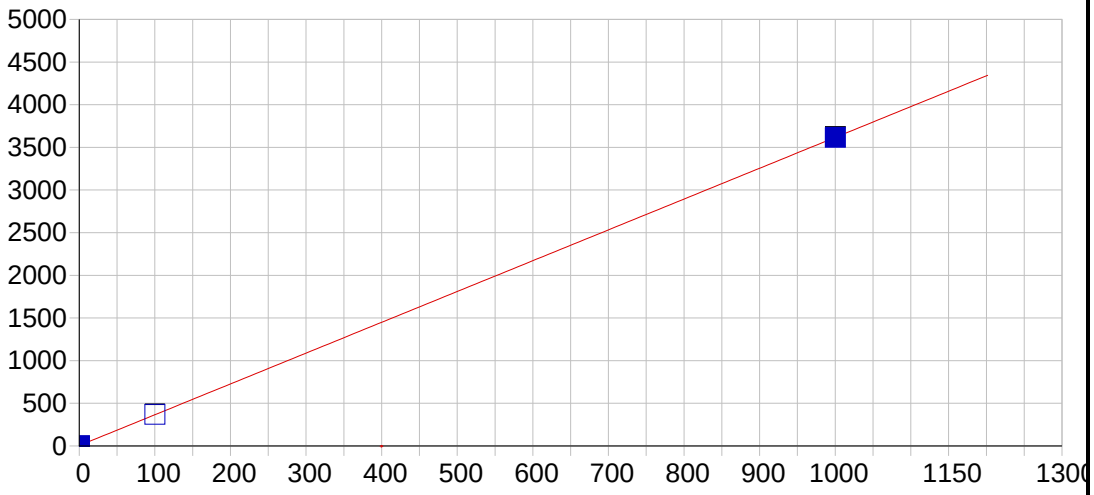


Cd 226.502 {449}

Date of Fit:	12/09/2010 15:01:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.031189	Re-Slope:	1.000000
A1 (Gain):	4.281043	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999936	Status:	OK.
Std Error of Est:	0.029636		
Predicted MDL:	0.141983		
Predicted MQL:	0.473275		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00011	.000	.000	.03071	.351	1
CalibStd=50	50.000	50.904	.904	1.81	217.96	1.31	1
CalibStd=1	1.0000	.91522	-.085	-8.48	3.9493	.476	1
CalibStd=0.5	.50000	.48560	-.014	-2.88	2.1101	.228	1
CalibStd=5	5.0000	5.1371	.137	2.74	22.024	.193	1
CalibStd=0.2	.25000	.36951	.120	47.8	1.6131	.087	1
CalibStd=100	100.00	102.17	2.17	2.17	437.41	1.43	1
CalibStd=10	10.000	10.236	.236	2.36	43.853	.177	1
CalibStd=100	1000.0	996.54	-3.46	-.346	4266.7	1.67	1

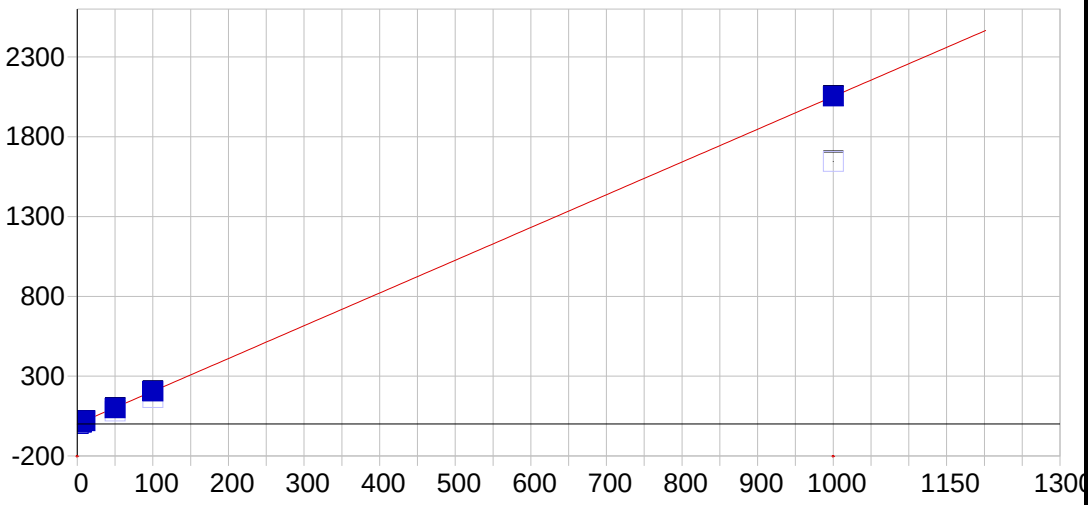


Cd 228.802 {447}

Date of Fit:	12/09/2010 15:01:23	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	4.577199	Re-Slope:	1.000000
A1 (Gain):	3.611810	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999998	Status:	OK.
Std Error of Est:	5.315738		
Predicted MDL:	0.174985		
Predicted MQL:	0.583282		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.98185	-.982	.000	1.0309	.617	1
CalibStd=100	1000.0	999.89	-.109	-.011	3616.0	9.89	1
CalibStd=100	100.00	101.09	1.09	1.09	369.70	1.46	1

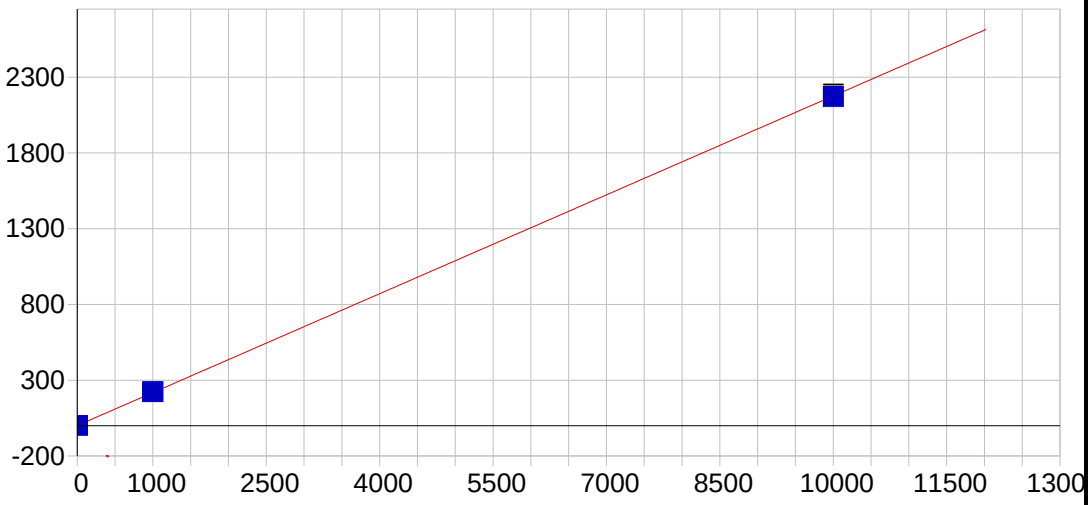


Co 228.616 {447}

Date of Fit:	12/09/2010 15:01:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.143844	Re-Slope:	1.000000
A1 (Gain):	2.052087	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999952	Status:	OK.
Std Error of Est:	0.020614		
Predicted MDL:	0.258407		
Predicted MQL:	0.861356		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00027	.000	.000	.14440	.425	1
CalibStd=50	50.000	49.040	-.960	-1.92	80.256	.949	1
CalibStd=10	10.000	9.8179	-.182	-1.82	16.187	.167	1
CalibStd=5	5.0000	4.8793	-.121	-2.41	8.1045	.328	1
CalibStd=1	1.0000	.78717	-.213	-21.3	1.7592	.061	1
CalibStd=100	100.00	100.16	.160	.160	164.64	.401	1
CalibStd=100	1000.0	1001.4	1.37	.137	1644.6	2.12	1

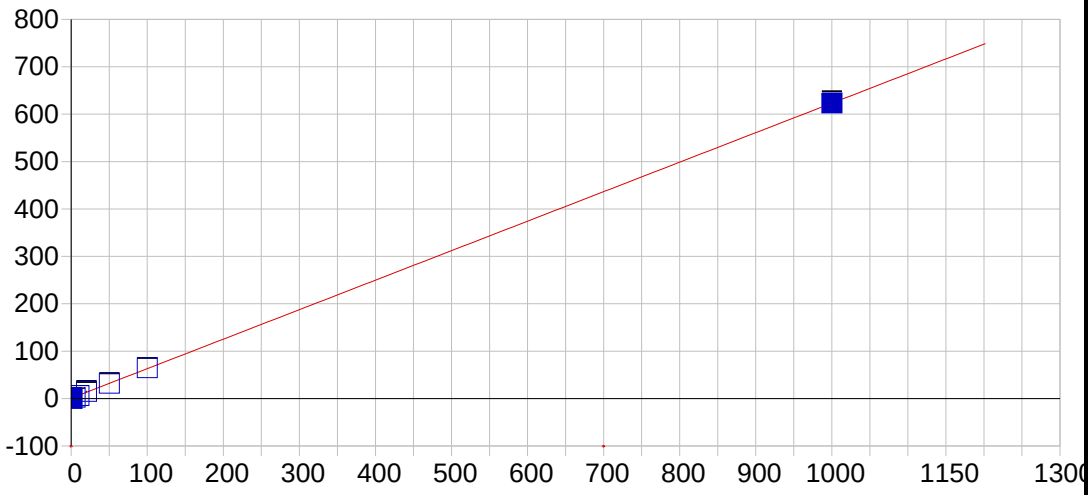


Co 238.892 {141}

Date of Fit:	12/09/2010 15:06:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.911885	Re-Slope:	1.000000
A1 (Gain):	0.217562	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999978	Status:	OK.
Std Error of Est:	0.260835		
Predicted MDL:	5.464256		
Predicted MQL:	18.214186		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.01879	-.019	.000	.90780	.909	1
CalibStd=100	1000.0	1020.9	20.9	2.09	222.70	.370	1
CalibStd=100	10000.	9979.1	-20.9	-.209	2168.8	15.5	1

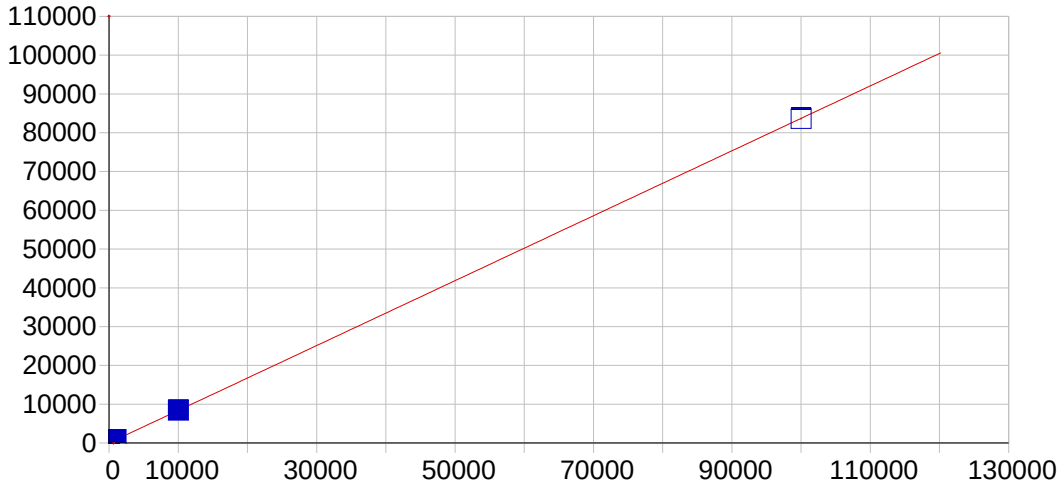


Cr 267.716 {126}

Date of Fit:	12/09/2010 15:01:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.830505	Re-Slope:	1.000000
A1 (Gain):	0.622393	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.997273	Status:	OK.
Std Error of Est:	0.057875		
Predicted MDL:	3.335292		
Predicted MQL:	11.117639		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00264	.003	.000	.83215	1.07	1
CalibStd=10	10.000	8.4881	-1.51	-15.1	6.1134	.285	1
CalibStd=5	5.0000	2.8833	-2.12	-42.3	2.6250	3.46	1
CalibStd=1	1.0000	-1.2275	-2.23	-223.	.06650	.880	1
CalibStd=50	50.000	50.247	.247	.494	32.104	.827	1
CalibStd=100	1000.0	1000.6	.556	.056	623.57	3.70	1
CalibStd=20	20.000	22.604	2.60	13.0	14.899	1.66	1
CalibStd=100	100.00	102.45	2.45	2.45	64.595	.082	1

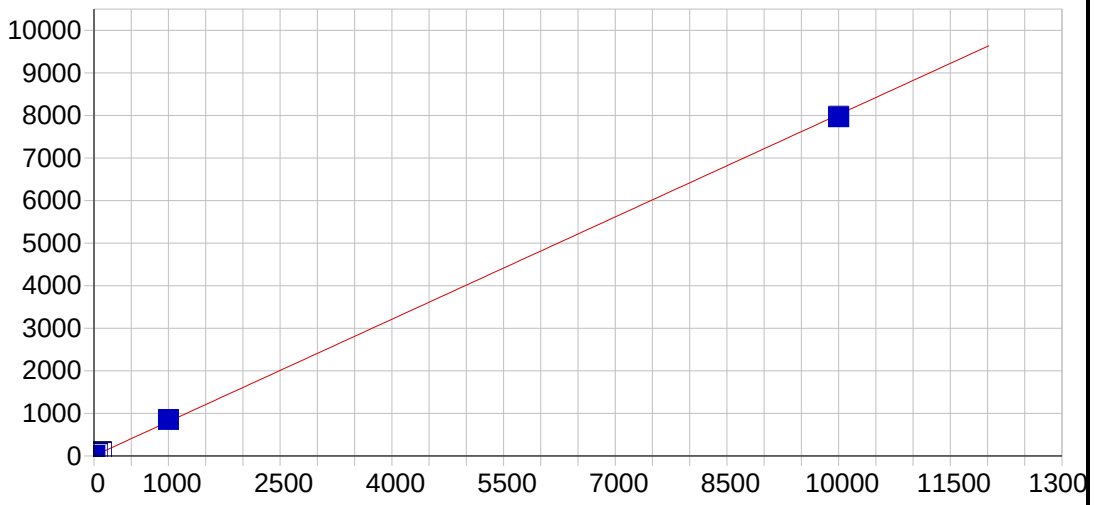


Cr 283.563 {119}

Date of Fit:	12/09/2010 15:12:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	2.350355	Re-Slope:	1.000000
A1 (Gain):	0.837024	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999994	Status:	OK.
Std Error of Est:	0.273051		
Predicted MDL:	2.812662		
Predicted MQL:	9.375540		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00525	-.005	.000	2.3460	.984	1
CalibStd=50	50.000	51.208	1.21	2.42	45.213	2.01	1
CalibStd=100	100.00	104.63	4.63	4.63	89.928	.807	1
CalibStd=100	1000.0	1032.4	32.4	3.24	867.63	5.91	1
CalibStd=100	10000.	10029.	29.1	.291	8408.8	63.0	1
CalibStd-100	100000.	99933.	-67.4	-.067	83648.	203.	1

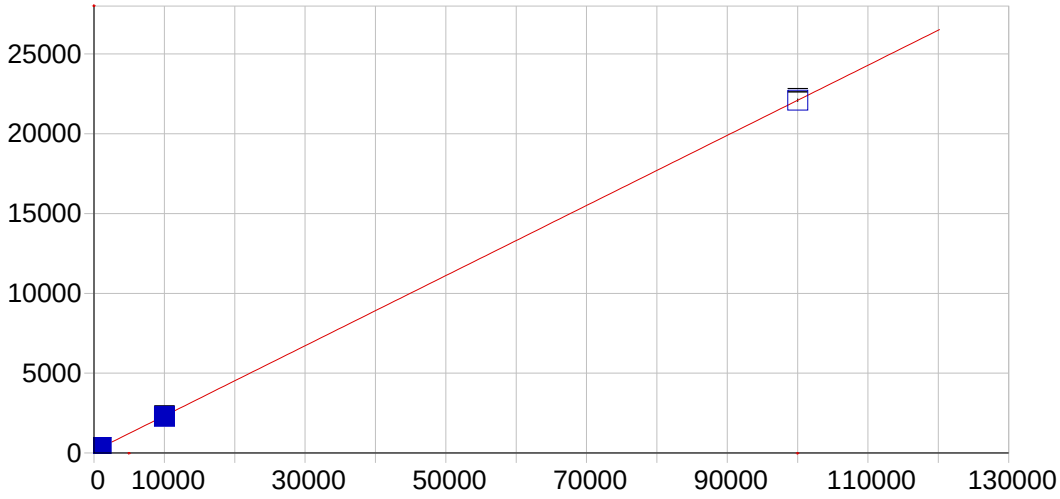


Cu 224.700 {450}

Date of Fit:	12/09/2010 15:06:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	5.179590	Re-Slope:	1.000000
A1 (Gain):	0.801614	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999785	Status:	OK.
Std Error of Est:	0.146969		
Predicted MDL:	0.678355		
Predicted MQL:	2.261183		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00152	-.002	.000	5.1784	.160	1
CalibStd=100	1000.0	1056.9	56.9	5.69	852.49	.534	1
CalibStd=50	50.000	54.076	4.08	8.15	48.528	.575	1
CalibStd=100	100.00	108.24	8.24	8.24	91.944	.345	1
CalibStd=5	5.0000	5.0173	.017	.346	9.2015	.548	1
CalibStd=10	10.000	10.869	.869	8.69	13.892	.202	1
CalibStd=100	10000.	9929.9	-70.1	-.701	7966.4	9.26	1

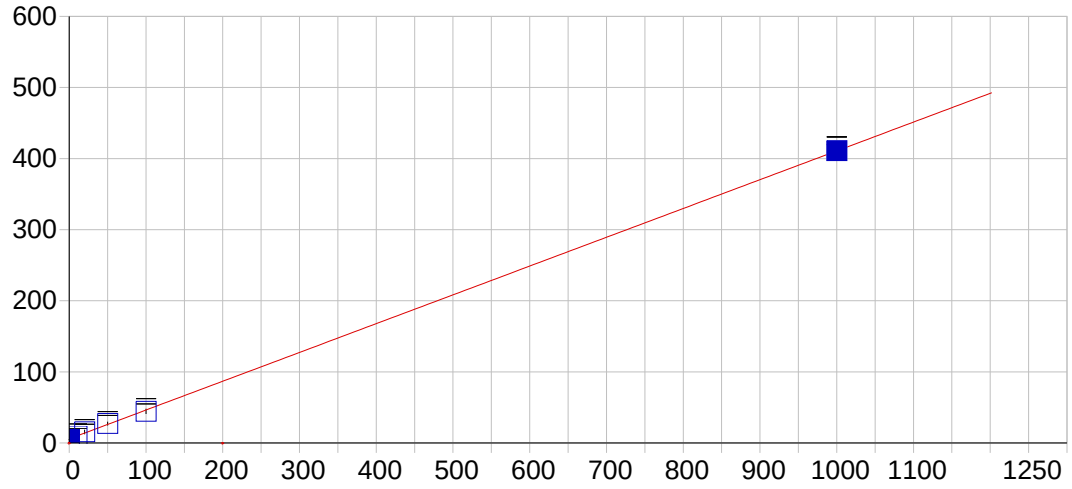


Cu 324.754 {104}

Date of Fit:	12/09/2010 15:12:13	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	126.323575	Re-Slope:	1.000000
A1 (Gain):	0.219699	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999997	Status:	OK.
Std Error of Est:	34.203226		
Predicted MDL:	13.246221		
Predicted MQL:	44.154069		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	115.93	116.	.000	151.79	3.45	1
CalibStd=100	10000.	9819.6	-180.	-1.80	2283.6	21.2	1
CalibStd-100	100000.	100020.	17.6	.018	22100.	110.	1
CalibStd=100	1000.0	1046.9	46.9	4.69	356.31	2.18	1

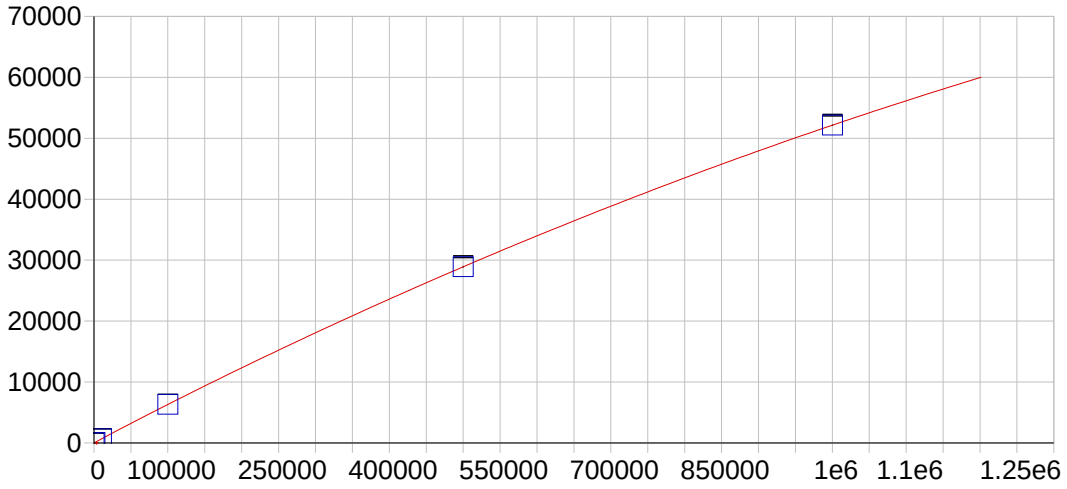


Cu 327.396 {103}

Date of Fit:	12/09/2010 15:01:23	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	5.805320	Re-Slope:	1.000000
A1 (Gain):	0.405013	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999968	Status:	OK.
Std Error of Est:	1.431674		
Predicted MDL:	11.871052		
Predicted MQL:	39.570173		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-1.8553	-1.86	.000	5.0539	.445	1
CalibStd=20	20.000	23.841	3.84	19.2	15.461	3.23	1
CalibStd=50	50.000	53.062	3.06	6.12	27.296	2.66	1
CalibStd=100	100.00	95.311	-4.69	-4.69	44.407	3.73	1
CalibStd=10	10.000	9.3970	-.603	-6.03	9.6112	3.10	1
CalibStd=100	1000.0	1000.2	.245	.025	410.90	5.41	1

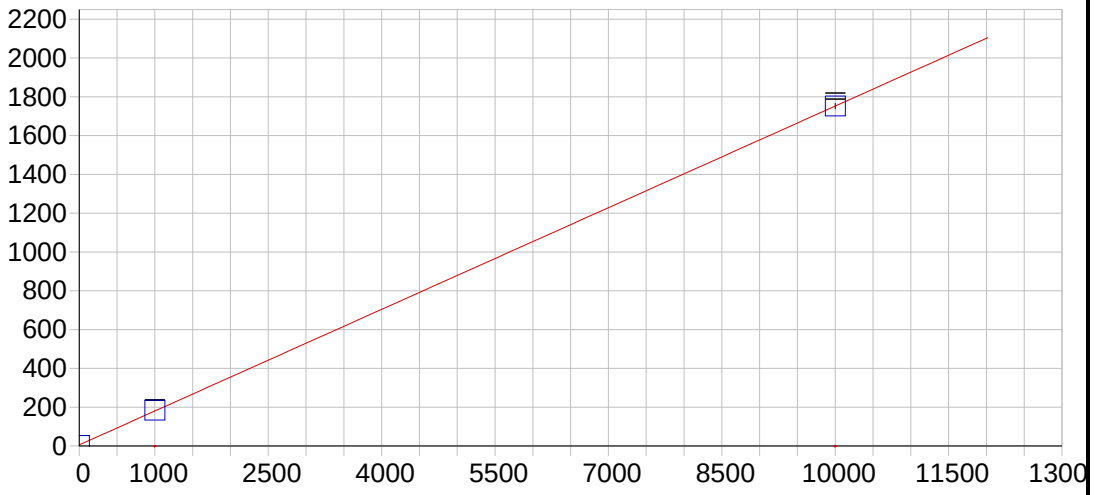


Fe 234.349 {144}

Date of Fit:	12/09/2010 15:29:24	Type of Fit:	Full Fit	Weighting:	None

A0 (Offset):	5.699243	Re-Slope:	1.000000
A1 (Gain):	0.072038	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	0.990000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	6.164771		
Predicted MDL:	11.076523		
Predicted MQL:	36.921744		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	1.0877	.783	1
CalibStd=100	10000.	10093.	93.2	.932	667.57	5.70	1
CalibStd=500	500000.	499980.	-23.2	-.005	28906.	148.	1
CalibStd=100	100000.	100040.	42.9	.043	6317.7	15.8	1
CalibStd-100	1000000.	1000000.	6.74	.001	52146.	140.	1
CalibStd=100	1000.0	952.92	-47.1	-4.71	69.784	.395	1

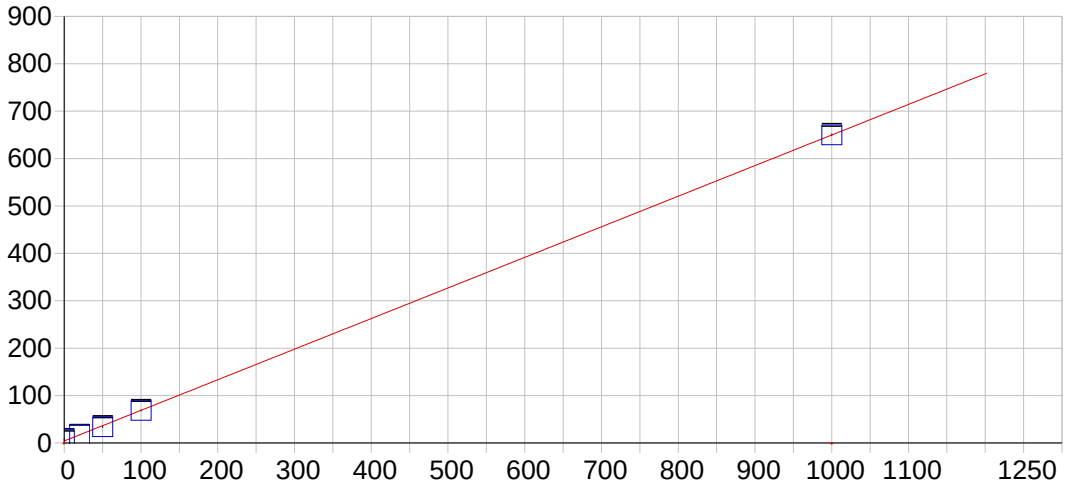


Fe 239.562 {141}

Date of Fit:	12/09/2010 15:06:47	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	5.586650	Re-Slope:	1.000000
A1 (Gain):	0.174659	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999992	Status:	OK.
Std Error of Est:	5.438125		
Predicted MDL:	5.469373		
Predicted MQL:	18.231244		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-20.771	-20.8	.000	1.9587	1.49	1
CalibStd=100	1000.0	1023.1	23.1	2.31	184.28	1.51	1
CalibStd=100	10000.	9997.7	-2.31	-.023	1751.8	15.9	1

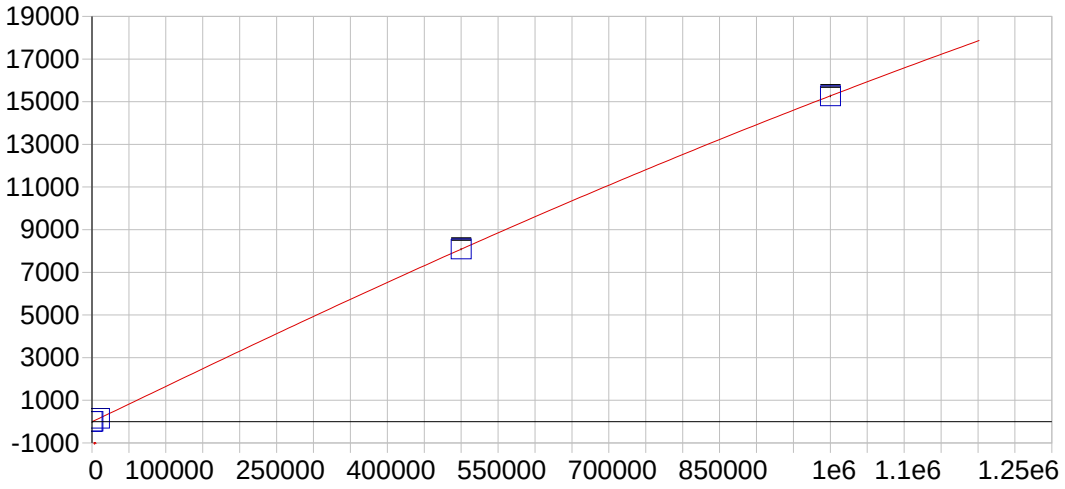


Fe 259.940 {130}

Date of Fit:	12/09/2010 15:01:23	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	4.225604	Re-Slope:	1.000000
A1 (Gain):	0.645523	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999981	Status:	OK.
Std Error of Est:	1.997258		
Predicted MDL:	2.917910		
Predicted MQL:	9.726365		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	3.8109	3.81	.000	6.6856	2.68	1
CalibStd=100	1000.0	1000.2	.234	.023	649.90	2.87	1
CalibStd=50	50.000	46.281	-3.72	-7.44	34.101	1.87	1
CalibStd=100	100.00	99.480	-.520	-.520	68.442	1.99	1
CalibStd=20	20.000	20.194	.194	.970	17.261	.690	1

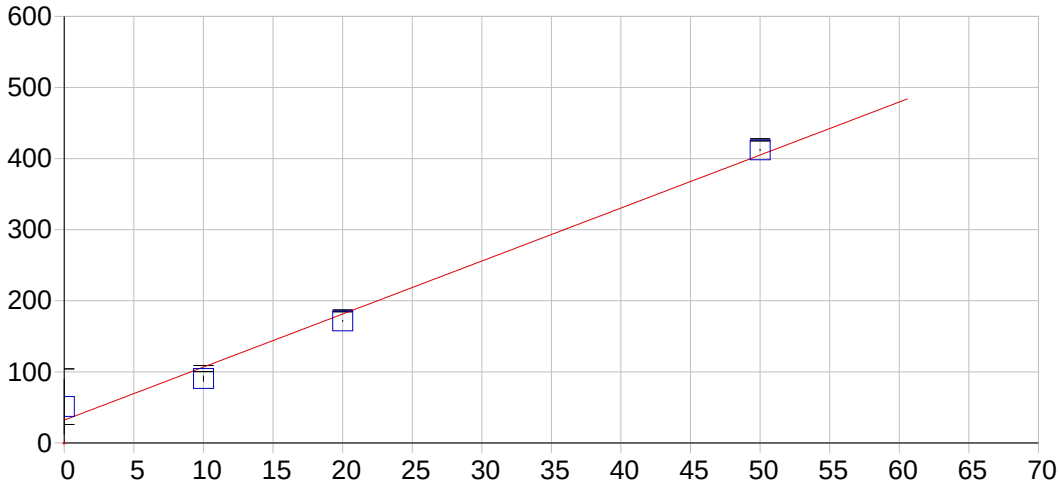


Mg 279.079 {121}

Date of Fit:	12/10/2010 07:01:40	Type of Fit:	Full Fit	Weighting:	1/Conc

A0 (Offset):	0.150746	Re-Slope:	1.000000
A1 (Gain):	0.013268	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	1.020000		
Correlation:	0.999968	Status:	OK.
Std Error of Est:	0.343773		
Predicted MDL:	86.334352		
Predicted MQL:	287.781172		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.14709	.314	1
CalibStd=500	500000.	500320.	322.	.064	8090.6	48.5	1
CalibStd=100	10000.	9573.6	-426.	-4.26	152.56	2.13	1
CalibStd-100	1000000.	999820.	-177.	-.018	15270.	56.3	1
CalibStd=100	1000.0	1278.5	278.	27.8	19.719	.564	1

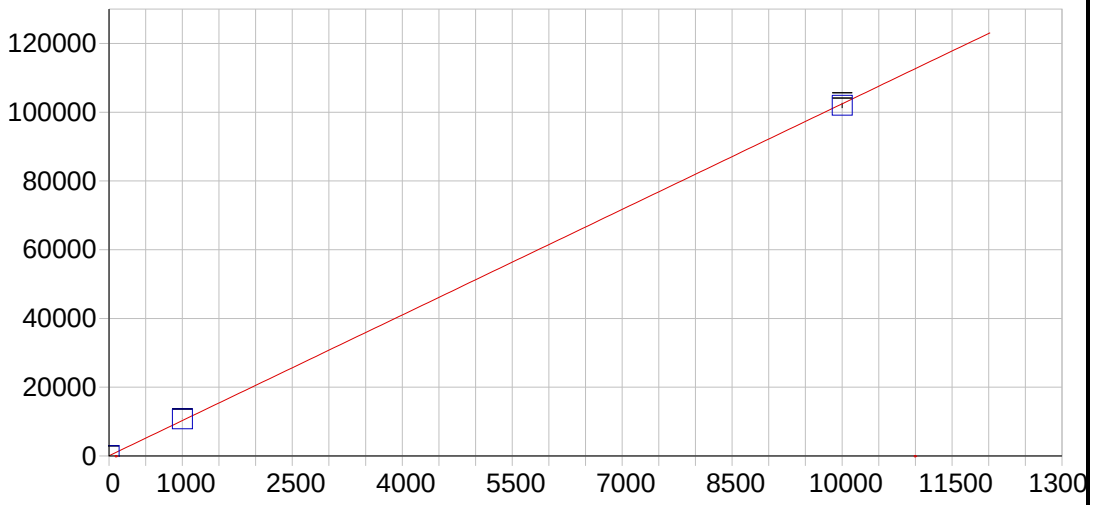


Mg 279.553 {121}

Date of Fit:	12/09/2010 14:51:15	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	32.147694	Re-Slope:	1.000000
A1 (Gain):	7.457203	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.995120	Status:	OK.
Std Error of Est:	19.563216		
Predicted MDL:	0.159353		
Predicted MQL:	0.531175		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	2.5275	2.53	.000	50.995	39.1	1
CalibStd=50	50.000	50.958	.958	1.92	412.15	1.48	1
CalibStd=20	20.000	18.697	-1.30	-6.51	171.58	1.24	1
CalibStd=10	10.000	7.8176	-2.18	-21.8	90.445	4.29	1

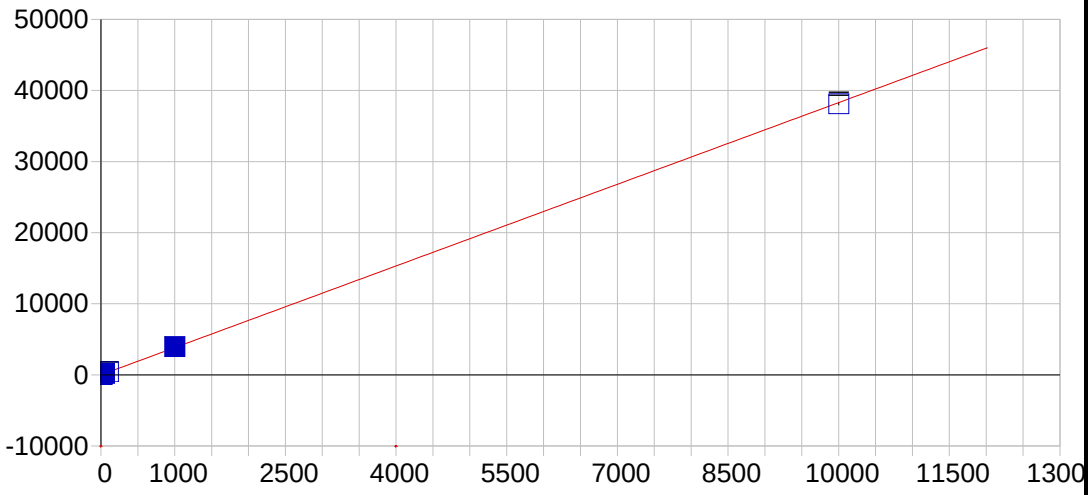


Mg 280.270 {120}

Date of Fit:	12/09/2010 15:06:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	60.980935	Re-Slope:	1.000000
A1 (Gain):	10.237574	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999893	Status:	OK.
Std Error of Est:	27.213016		
Predicted MDL:	0.148188		
Predicted MQL:	0.493959		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.04165	-.042	.000	60.555	43.8	1
CalibStd=100	1000.0	1046.3	46.3	4.63	10772.	38.7	1
CalibStd=100	10000.	9953.7	-46.3	-.463	101960.	782.	1

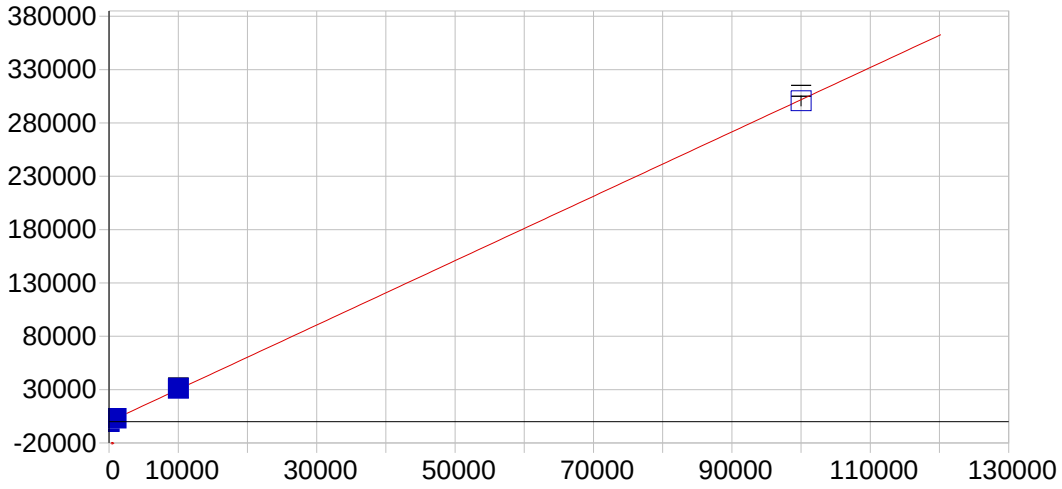


Mn 257.610 {131}

Date of Fit:	12/09/2010 15:06:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.592726	Re-Slope:	1.000000
A1 (Gain):	3.829402	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999908	Status:	OK.
Std Error of Est:	0.197048		
Predicted MDL:	0.503904		
Predicted MQL:	1.679680		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00071	-.001	.000	.59000	3.26	1
CalibStd=10	10.000	10.694	.694	6.94	41.544	2.64	1
CalibStd=50	50.000	52.750	2.75	5.50	202.59	2.85	1
CalibStd=20	20.000	21.251	1.25	6.25	81.970	1.30	1
CalibStd=100	100.00	105.43	5.43	5.43	404.33	5.44	1
CalibStd=5	5.0000	5.4296	.430	8.59	21.385	1.06	1
CalibStd=1	1.0000	1.3552	.355	35.5	5.7822	1.90	1
CalibStd=100	1000.0	1033.6	33.6	3.36	3958.6	21.2	1
CalibStd=100	10000.	9955.5	-44.5	-.445	38124.	214.	1

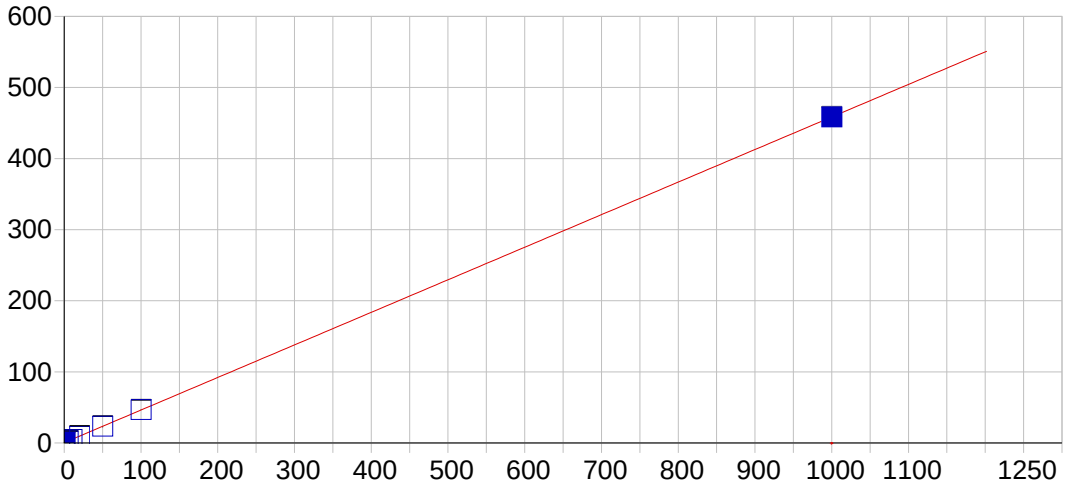


Mn 259.373 {130}

Date of Fit:	12/09/2010 15:12:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	1.811593	Re-Slope:	1.000000
A1 (Gain):	3.018035	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999923	Status:	OK.
Std Error of Est:	17.641198		
Predicted MDL:	0.770488		
Predicted MQL:	2.568295		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.10669	-.107	.000	1.4896	3.21	1
CalibStd=100	10000.	10303.	303.	3.03	31253.	238.	1
CalibStd-100	100000.	99615.	-385.	-.385	300640.	5110.	1
CalibStd=100	1000.0	1080.3	80.3	8.03	3277.8	14.7	1

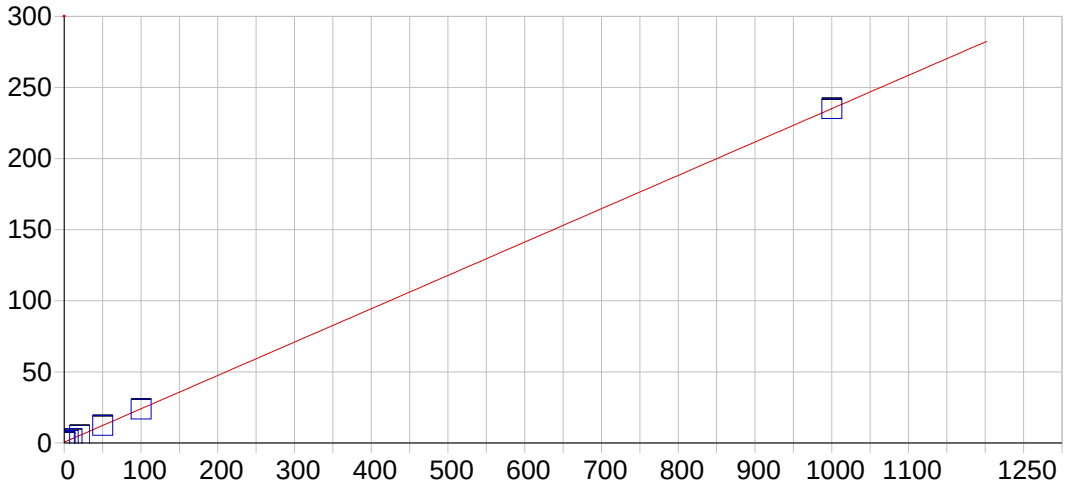


Mo 202.030 {467}

Date of Fit:	12/09/2010 15:01:23	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.491792	Re-Slope:	1.000000
A1 (Gain):	0.458041	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999999	Status:	OK.
Std Error of Est:	0.200376		
Predicted MDL:	0.775578		
Predicted MQL:	2.585260		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.09903	-.099	.000	.44643	.135	1
CalibStd=50	50.000	50.207	.207	.414	23.489	.011	1
CalibStd=1	1.0000	.70785	-.292	-29.2	.81602	.246	1
CalibStd=20	20.000	19.738	-.262	-1.31	9.5327	.327	1
CalibStd=10	10.000	9.7419	-.258	-2.58	4.9540	.280	1
CalibStd=100	100.00	100.92	.922	.922	46.718	.395	1
CalibStd=5	5.0000	4.8754	-.125	-2.49	2.7249	.031	1
CalibStd=100	1000.0	999.91	-.094	-.009	458.49	.641	1

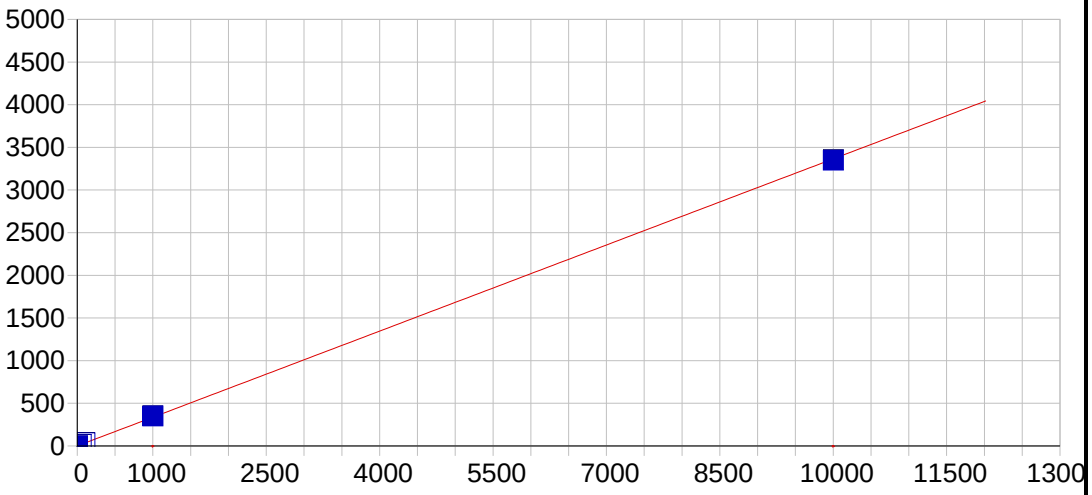


Mo 203.844 {465}

Date of Fit:	12/09/2010 15:01:23	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.559627	Re-Slope:	1.000000
A1 (Gain):	0.234543	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999999	Status:	OK.
Std Error of Est:	0.141078		
Predicted MDL:	1.558272		
Predicted MQL:	5.194240		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.25446	.254	.000	.61931	.166	1
CalibStd=50	50.000	49.837	-.163	-.326	12.249	.265	1
CalibStd=1	1.0000	.57048	-.430	-43.0	.69343	.298	1
CalibStd=20	20.000	20.734	.734	3.67	5.4227	.128	1
CalibStd=10	10.000	10.666	.666	6.66	3.0613	.321	1
CalibStd=100	100.00	99.074	-.926	-.926	23.797	.101	1
CalibStd=5	5.0000	4.7829	-.217	-4.34	1.6814	.249	1
CalibStd=100	1000.0	1000.1	.081	.008	235.12	.453	1

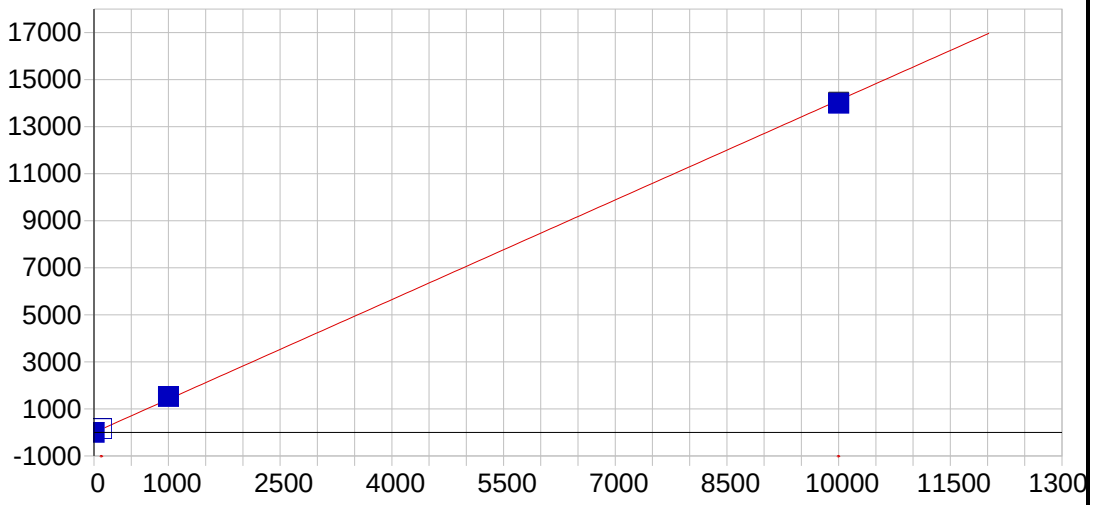


Mo 204.598 {465}

Date of Fit:	12/09/2010 15:06:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.428810	Re-Slope:	1.000000
A1 (Gain):	0.336474	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999901	Status:	OK.
Std Error of Est:	0.144580		
Predicted MDL:	1.191711		
Predicted MQL:	3.972371		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00675	-.007	.000	.42654	.071	1
CalibStd=100	1000.0	1040.8	40.8	4.08	350.64	.111	1
CalibStd=100	10000.	9952.5	-47.5	-.475	3349.3	3.79	1
CalibStd=50	50.000	53.171	3.17	6.34	18.320	.182	1
CalibStd=100	100.00	103.56	3.56	3.56	35.273	.168	1

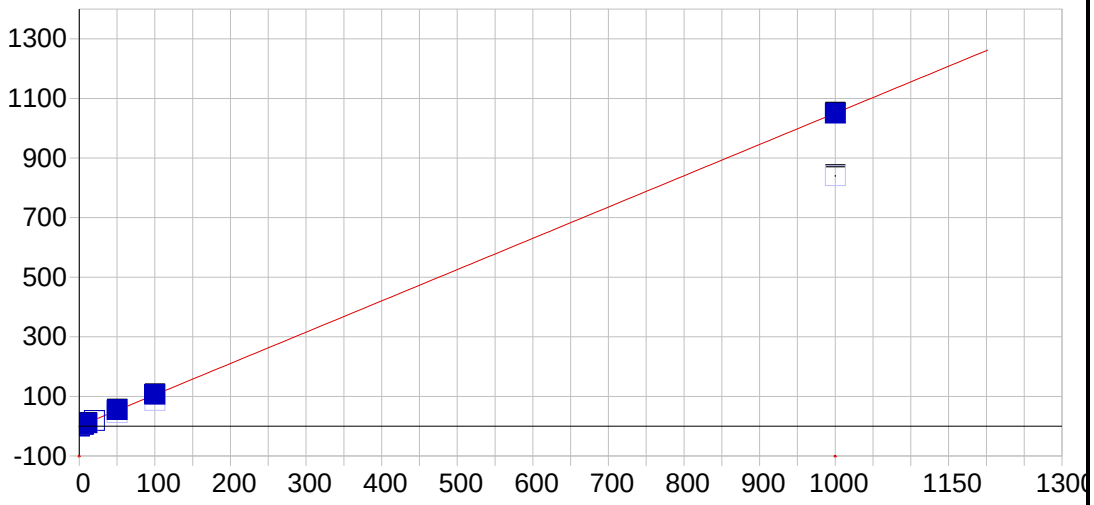


Ni 221.647 {452}

Date of Fit:	12/09/2010 15:06:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.133583	Re-Slope:	1.000000
A1 (Gain):	1.412114	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999634	Status:	OK.
Std Error of Est:	1.799867		
Predicted MDL:	0.500960		
Predicted MQL:	1.669866		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.01631	-.016	.000	-.15662	.367	1
CalibStd=100	10000.	9910.3	-89.7	-.897	13993.	30.7	1
CalibStd=100	100.00	109.16	9.16	9.16	154.01	.533	1
CalibStd=100	1000.0	1080.5	80.5	8.05	1525.6	1.48	1

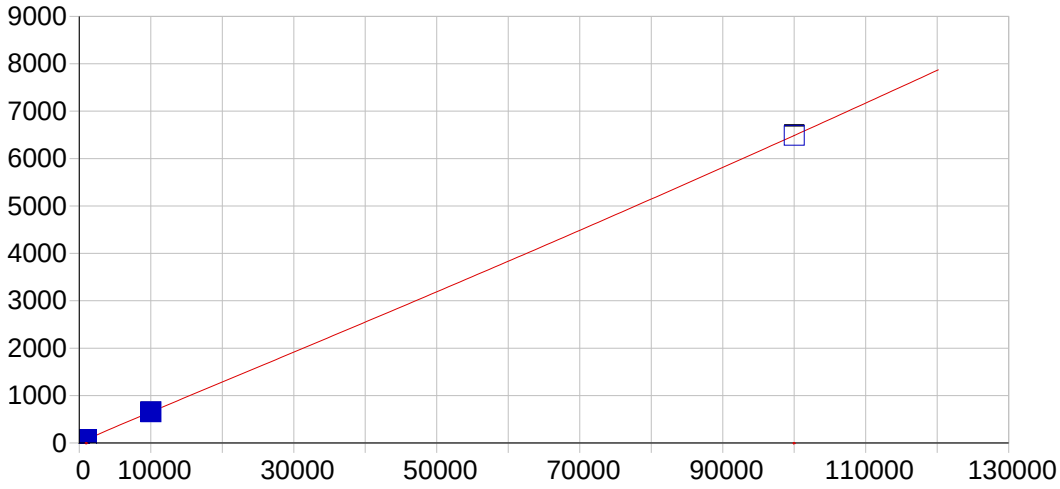


Ni 231.604 {445}

Date of Fit:	12/09/2010 15:01:23	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.339264	Re-Slope:	1.000000
A1 (Gain):	1.050200	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999987	Status:	OK.
Std Error of Est:	1.756972		
Predicted MDL:	0.582053		
Predicted MQL:	1.940178		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.38968	-.390	.000	-.06998	.202	1
CalibStd=50	50.000	52.399	2.40	4.80	44.867	.863	1
CalibStd=20	20.000	17.465	-2.53	-12.7	18.681	.182	1
CalibStd=10	10.000	9.9507	-.049	-.493	8.6891	.425	1
CalibStd=100	100.00	101.20	1.20	1.20	85.611	.765	1
CalibStd=5	5.0000	4.5528	-.447	-8.94	4.0704	.535	1
CalibStd=100	1000.0	999.83	-.173	-.017	840.28	2.86	1

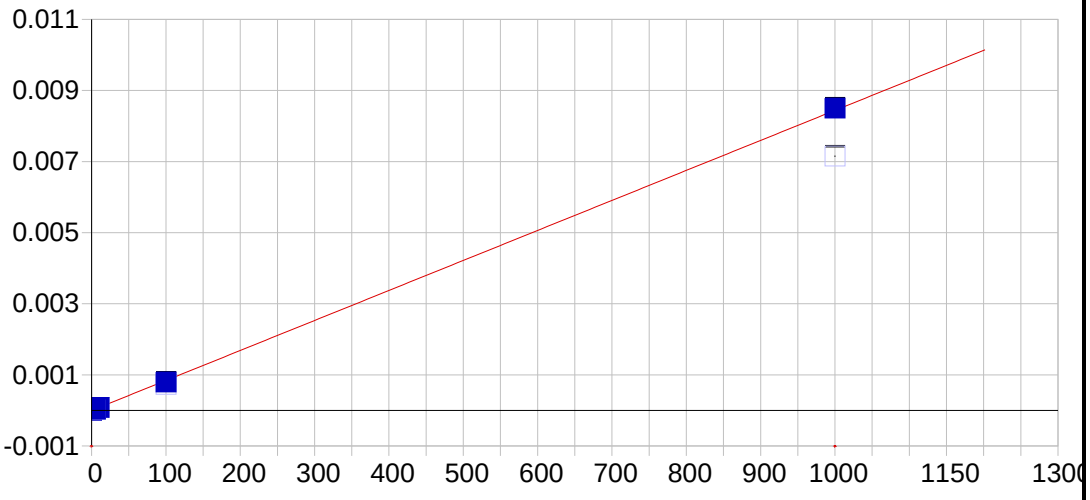


Pb 216.999 {455}

Date of Fit:	12/09/2010 15:12:13	Type of Fit:	Full Fit	Weighting:	None

A0 (Offset):	0.408394	Re-Slope:	1.000000
A1 (Gain):	0.093517	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	0.960000		
Correlation:	1.000000	Status:	Warning Positive Curvature
Std Error of Est:	0.000000		
Predicted MDL:	6.306988		
Predicted MQL:	21.023292		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	1.1880	1.19	.000	.51873	.407	1
CalibStd=100	1000.0	998.16	-1.84	-.184	71.561	.834	1
CalibStd=100	10000.	10000.	.241	.002	656.04	.248	1
CalibStd-100	100000.	100000.	-.002	.000	6488.1	11.0	1

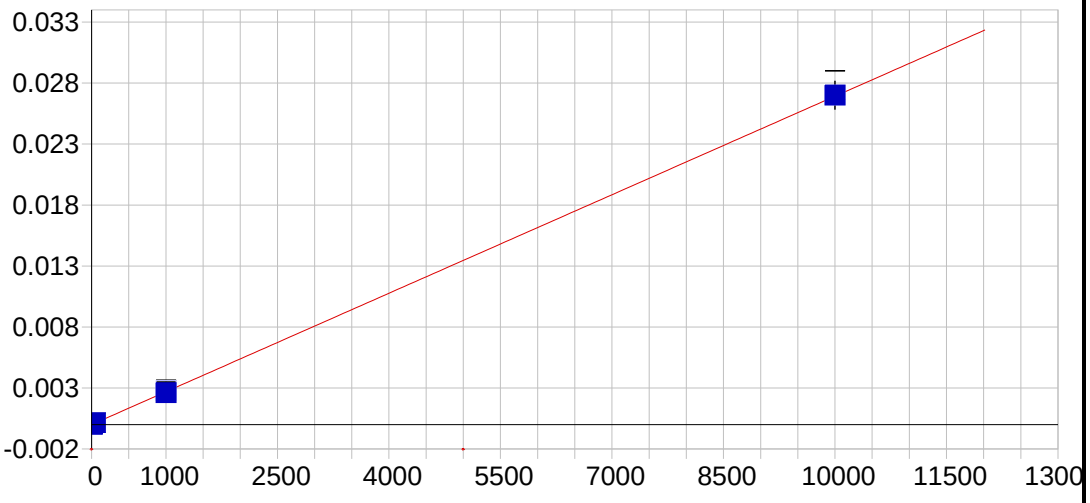


Pb 220.353 {453}

Date of Fit:	12/09/2010 15:01:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000003	Re-Slope:	1.000000
A1 (Gain):	0.000008	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999634	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	1.729987		
Predicted MQL:	5.766623		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00133	.001	.000	.00000	.000	1
CalibStd=10	10.000	9.9941	-.006	-.059	.00008	.000	1
CalibStd=100	100.00	94.526	-5.47	-5.47	.00073	.000	1
CalibStd=5	5.0000	3.9135	-1.09	-21.7	.00003	.000	1
CalibStd=100	1000.0	1007.2	7.19	.719	.00715	.000	1

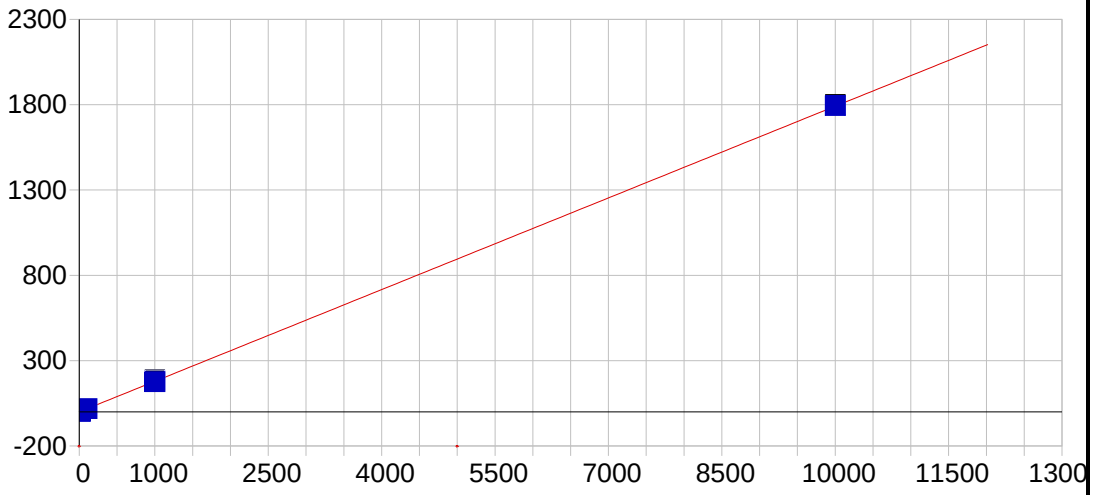


Sb 206.833 {463}

Date of Fit:	12/09/2010 15:06:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000003	Re-Slope:	1.000000
A1 (Gain):	0.000003	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999935	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	3.415680		
Predicted MQL:	11.385598		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00056	-.001	.000	.00000	.000	1
CalibStd=100	1000.0	966.45	-33.6	-3.36	.00279	.000	1
CalibStd=10	10.000	10.185	.185	1.85	.00003	.000	1
CalibStd=50	50.000	53.371	3.37	6.74	.00015	.000	1
CalibStd=100	10000.	10032.	32.1	.321	.02701	.001	1

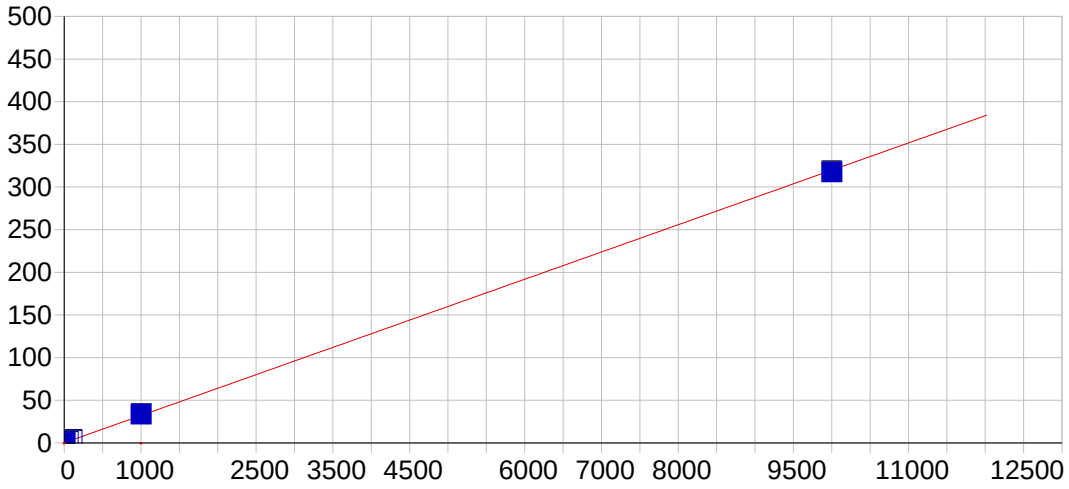


Sb 217.581 {455}

Date of Fit:	12/09/2010 15:06:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.108791	Re-Slope:	1.000000
A1 (Gain):	0.179114	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999963	Status:	OK.
Std Error of Est:	0.019984		
Predicted MDL:	3.632934		
Predicted MQL:	12.109778		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00274	.003	.000	-.10830	.410	1
CalibStd=100	1000.0	984.05	-15.9	-1.59	185.08	.700	1
CalibStd=20	20.000	19.533	-.467	-2.34	3.5689	.504	1
CalibStd=10	10.000	7.7352	-2.26	-22.6	1.3663	.375	1
CalibStd=100	100.00	99.011	-.989	-.989	18.521	.499	1
CalibStd=100	10000.	10021.	20.6	.206	1794.5	3.31	1

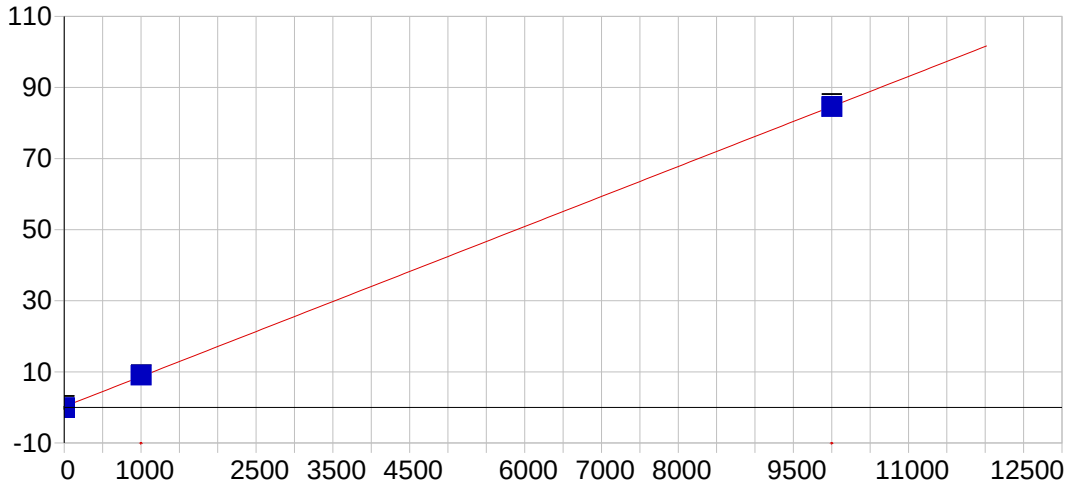


Se 196.090 {472}

Date of Fit:	12/09/2010 15:06:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.199523	Re-Slope:	1.000000
A1 (Gain):	0.031951	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999611	Status:	OK.
Std Error of Est:	0.011524		
Predicted MDL:	10.087391		
Predicted MQL:	33.624637		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00906	-.009	.000	.19923	.189	1
CalibStd=50	50.000	53.827	3.83	7.65	1.9193	.137	1
CalibStd=100	1000.0	1048.0	48.0	4.80	33.674	.182	1
CalibStd=10	10.000	17.244	7.24	72.4	.75048	.098	1
CalibStd=100	100.00	106.39	6.39	6.39	3.5986	.132	1
CalibStd=100	10000.	9934.6	-65.4	-.654	317.54	.789	1

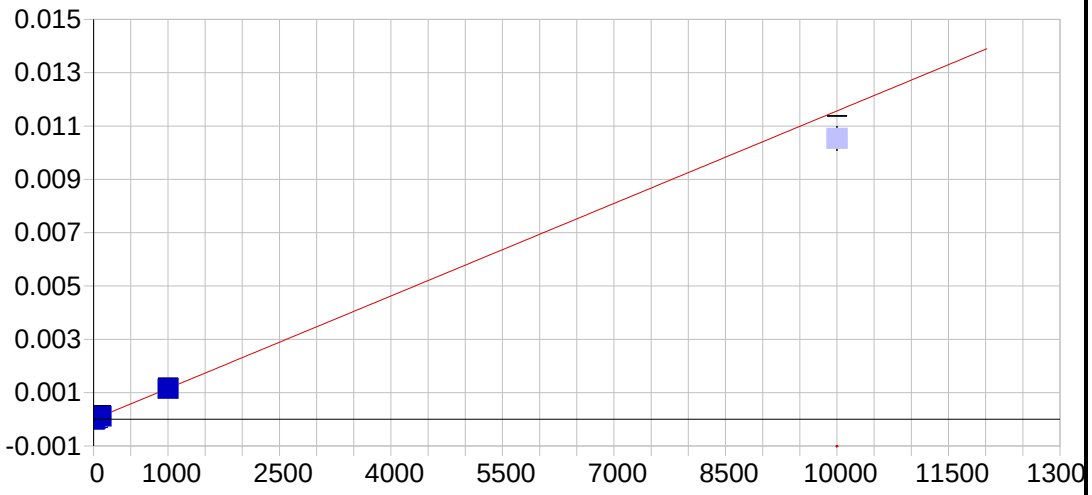


Se 206.279 {463}

Date of Fit:	12/09/2010 15:06:47	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.238662	Re-Slope:	1.000000
A1 (Gain):	0.008442	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999968	Status:	OK.
Std Error of Est:	0.524368		
Predicted MDL:	48.233961		
Predicted MQL:	160.779869		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-41.438	-41.4	.000	-.11116	.509	1
CalibStd=100	1000.0	1046.0	46.0	4.60	9.0747	.048	1
CalibStd=100	10000.	9995.4	-4.60	-.046	84.673	.665	1

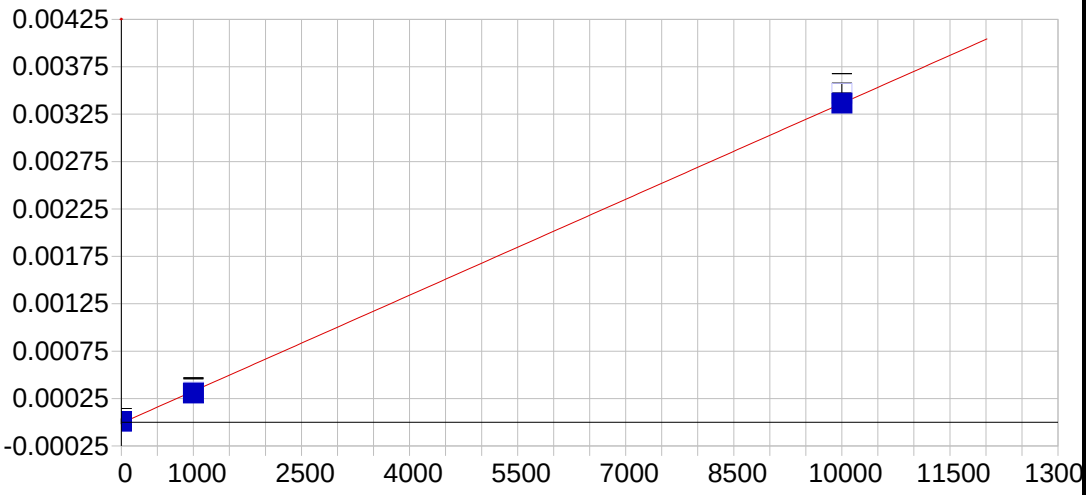


Tl 190.856 {477}

Date of Fit:	12/09/2010 15:06:47	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-0.000001	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999963	Status:	OK.
Std Error of Est:	0.000004		
Predicted MDL:	7.194077		
Predicted MQL:	23.980257		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-1.4803	-1.48	.000	.00000	.000	1
CalibStd=50	50.000	48.366	-1.63	-3.27	.00005	.000	1
CalibStd=100	1000.0	999.73	-.271	-.027	.00116	.000	1
CalibStd=20	20.000	24.887	4.89	24.4	.00003	.000	1
CalibStd=100	100.00	103.00	3.00	3.00	.00012	.000	1
CalibStd=10	10.000	5.5016	-4.50	-45.0	.00001	.000	1
CalibStd=100	10000.	9106.5	-894.	-8.94	.01053	.000	0

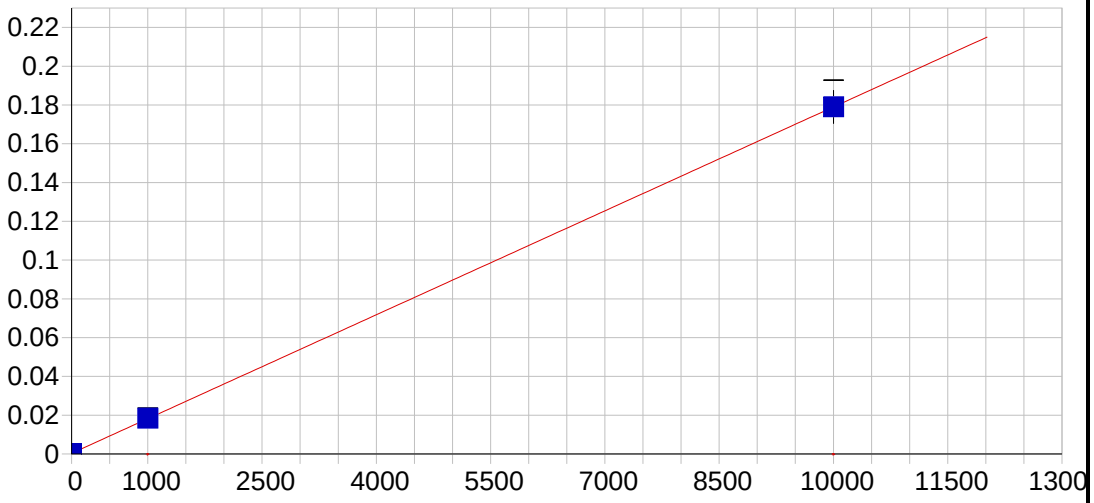


Tl 276.787 {122}

Date of Fit:	12/09/2010 15:06:47	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-0.000009	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999944	Status:	OK.
Std Error of Est:	0.000029		
Predicted MDL:	133.950114		
Predicted MQL:	446.500380		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	56.659	56.7	.000	.00001	.000	1
CalibStd=100	1000.0	937.05	-63.0	-6.30	.00032	.000	1
CalibStd=100	10000.	10006.	6.30	.063	.00347	.000	1

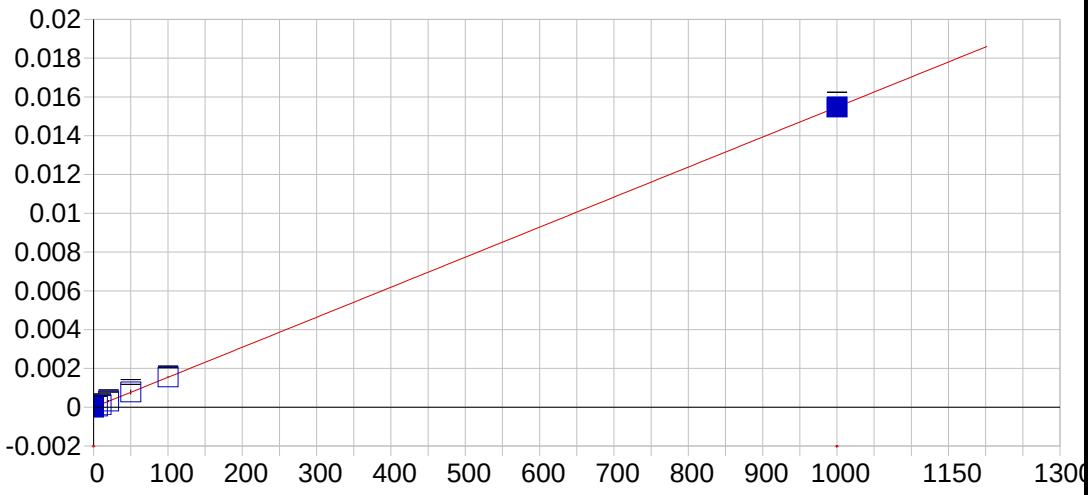


V 290.882 {116}

Date of Fit:	12/09/2010 15:06:47	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000331	Re-Slope:	1.000000
A1 (Gain):	0.000018	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999998	Status:	OK.
Std Error of Est:	0.000293		
Predicted MDL:	3.996109		
Predicted MQL:	13.320363		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-10.929	-10.9	.000	.00014	.000	1
CalibStd=100	1000.0	1012.1	12.1	1.21	.01841	.000	1
CalibStd=100	10000.	9998.8	-1.21	-.012	.17897	.009	1

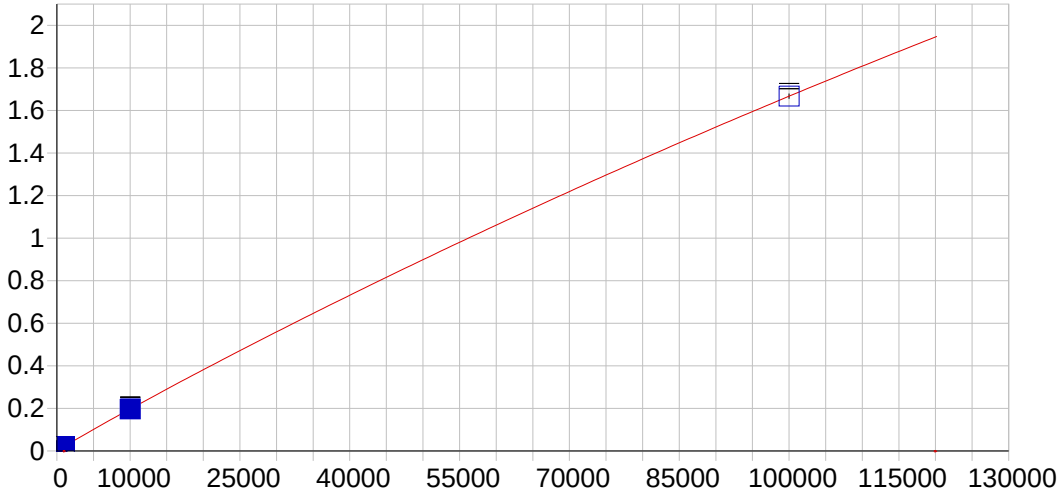


V 292.402 {115}

Date of Fit:	12/09/2010 15:01:23	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-0.000009	Re-Slope:	1.000000
A1 (Gain):	0.000015	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999995	Status:	OK.
Std Error of Est:	0.000019		
Predicted MDL:	4.392894		
Predicted MQL:	14.642979		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.24561	.246	.000	-.00001	.000	1
CalibStd=50	50.000	50.994	.994	1.99	.00078	.000	1
CalibStd=100	1000.0	999.85	-.149	-.015	.01548	.000	1
CalibStd=20	20.000	20.690	.690	3.45	.00031	.000	1
CalibStd=5	5.0000	4.0465	-.954	-19.1	.00005	.000	1
CalibStd=10	10.000	8.0767	-1.92	-19.2	.00012	.000	1
CalibStd=100	100.00	101.10	1.10	1.10	.00156	.000	1

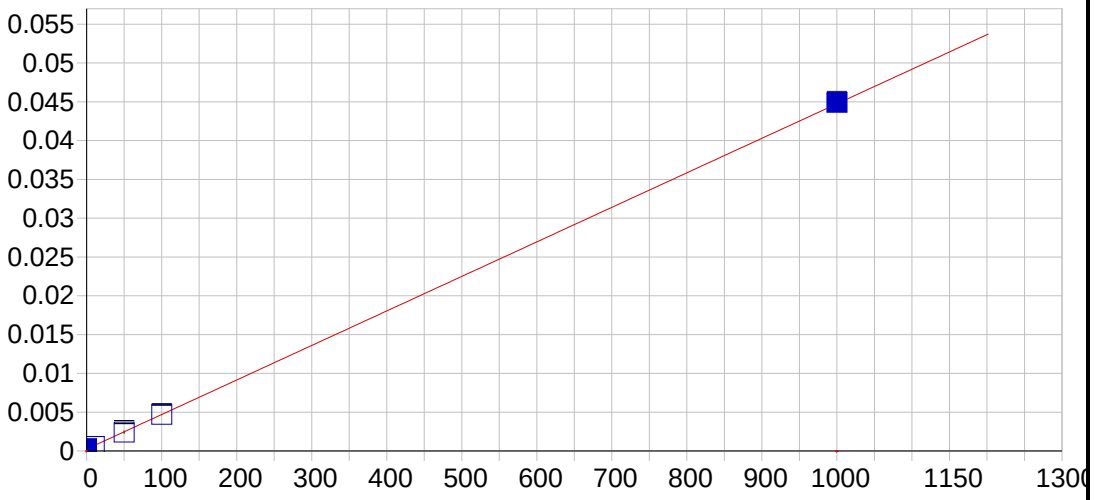


Zn 206.200 {463}

Date of Fit:	12/09/2010 15:12:13	Type of Fit:	Full Fit	Weighting:	None

A0 (Offset):	0.000090	Re-Slope:	1.000000
A1 (Gain):	0.000026	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	0.970000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.321901		
Predicted MQL:	1.073004		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
CalibStd=100	10000.	10000.	.162	.002	.19700	.008	1
CalibStd-100	100000.	100000.	-.002	.000	1.6671	.012	1
Blank	.00000	.86132	.861	.000	.00011	.000	1
CalibStd=100	1000.0	998.75	-1.25	-.125	.02137	.000	1

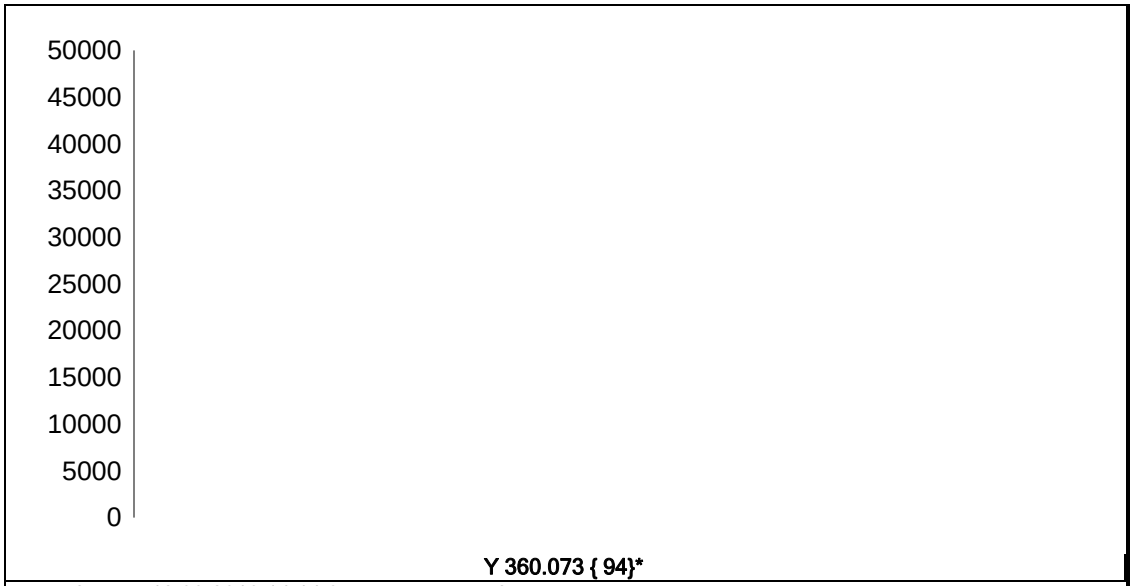


Zn 213.856 {458}

Date of Fit:	12/09/2010 15:01:23	Type of Fit:	Linear	Weighting:	1/Conc

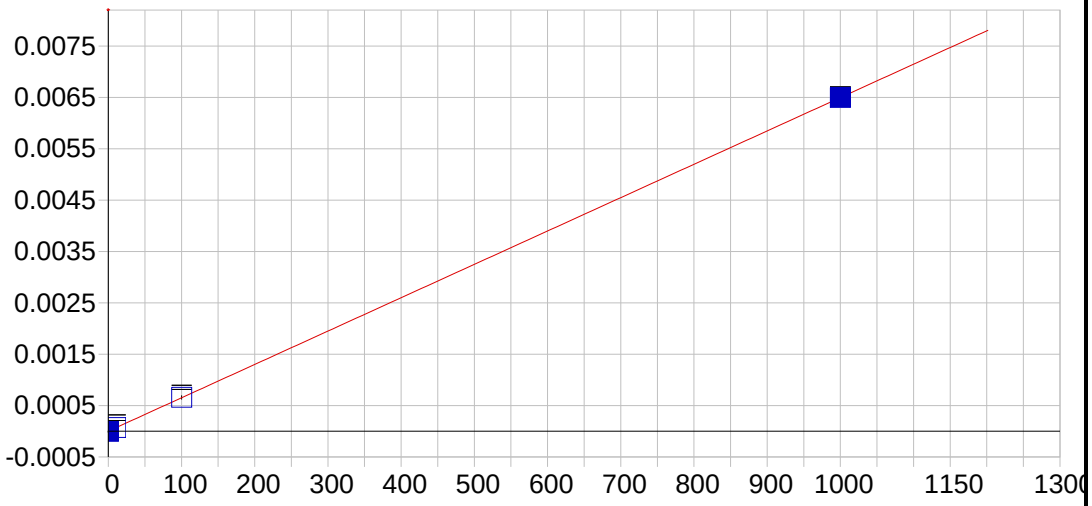
A0 (Offset):	0.000244	Re-Slope:	1.000000
A1 (Gain):	0.000045	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999651	Status:	OK.
Std Error of Est:	0.000005		
Predicted MDL:	0.198099		
Predicted MQL:	0.660329		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00295	.003	.000	.00024	.000	1
CalibStd=100	100.00	99.992	-.008	-.008	.00469	.000	1
CalibStd=50	50.000	48.957	-1.04	-2.09	.00242	.000	1
CalibStd=10	10.000	7.2217	-2.78	-27.8	.00057	.000	1
CalibStd=100	1000.0	1003.8	3.83	.383	.04493	.000	1



Date of Fit:	12/09/2010 14:14:07	Type of Fit:	Linear	Weighting:	None	
A0 (Offset):	0.000000		Re-Slope:	1.000000		
A1 (Gain):	0.000000		Y-int:	0.000000		
A2 (Curvature):	0.000000					
n (Exponent):	1.000000					
Correlation:	0.000000		Status:	Warning	Zero Gain	
Std Error of Est:	0.000000					
Predicted MDL:	n/a					
Predicted MQL:	n/a					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	46764.	395.	1

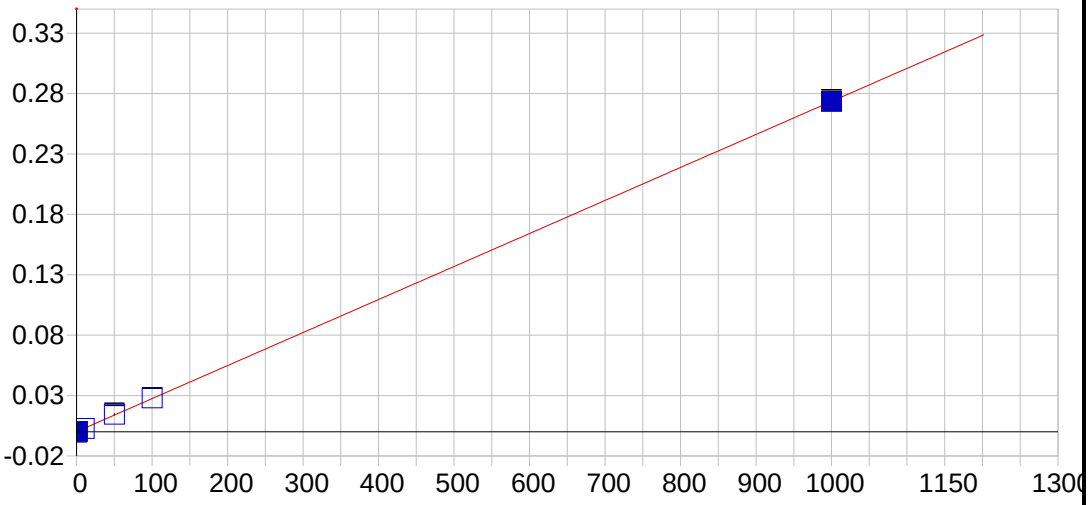


B 249.773 {135}

Date of Fit:	12/09/2010 15:01:23	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000002	Re-Slope:	1.000000
A1 (Gain):	0.000006	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999998	Status:	OK.
Std Error of Est:	0.000007		
Predicted MDL:	5.696604		
Predicted MQL:	18.988681		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-1.1842	-1.18	.000	-.00001	.000	1
CalibStd=10	10.000	10.203	.203	2.03	.00007	.000	1
CalibStd=100	100.00	101.09	1.09	1.09	.00066	.000	1
CalibStd=100	1000.0	999.89	-.111	-.011	.00650	.000	1

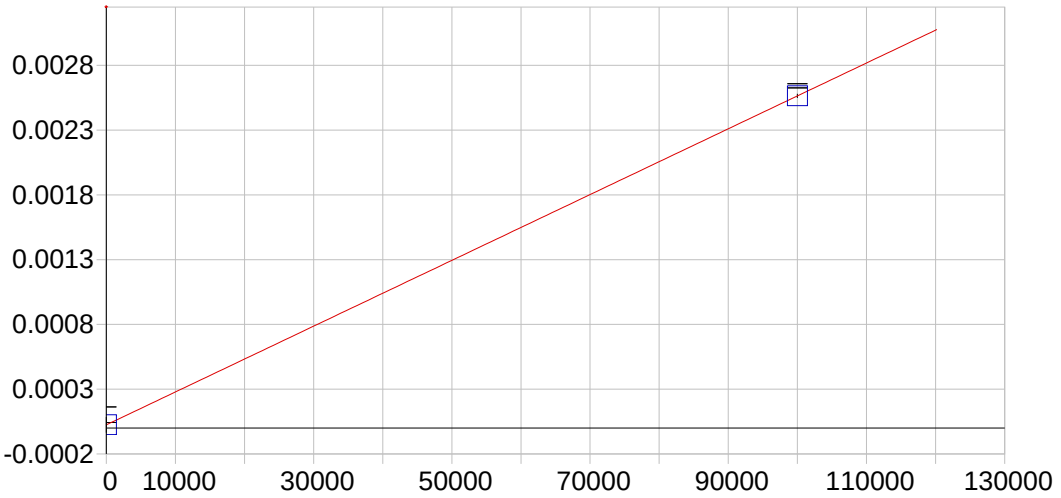


Li 670.784 { 50}

Date of Fit:	12/09/2010 15:01:23	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000155	Re-Slope:	1.000000
A1 (Gain):	0.000273	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999993	Status:	OK.
Std Error of Est:	0.000469		
Predicted MDL:	1.223928		
Predicted MQL:	4.079762		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-1.8024	-1.80	.000	-.00034	.000	1
CalibStd=10	10.000	8.9388	-1.06	-10.6	.00260	.000	1
CalibStd=50	50.000	52.165	2.17	4.33	.01442	.001	1
CalibStd=100	100.00	101.52	1.52	1.52	.02791	.000	1
CalibStd=100	1000.0	999.75	-.249	-.025	.27349	.001	1
CalibStd=1	1.0000	.42526	-.575	-57.5	.00027	.000	1

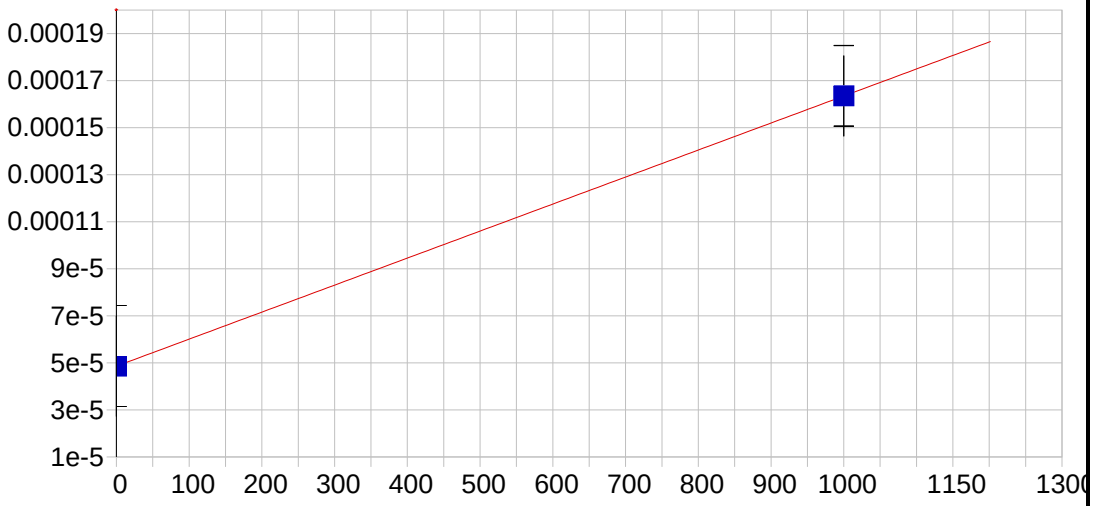


Na 330.298 {102}

Date of Fit:	12/09/2010 15:17:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000025	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	2666.911583		
Predicted MQL:	8889.705276		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00002	.000	1
CalibStd=100	100000.	100000.	.000	.000	.00256	.000	1

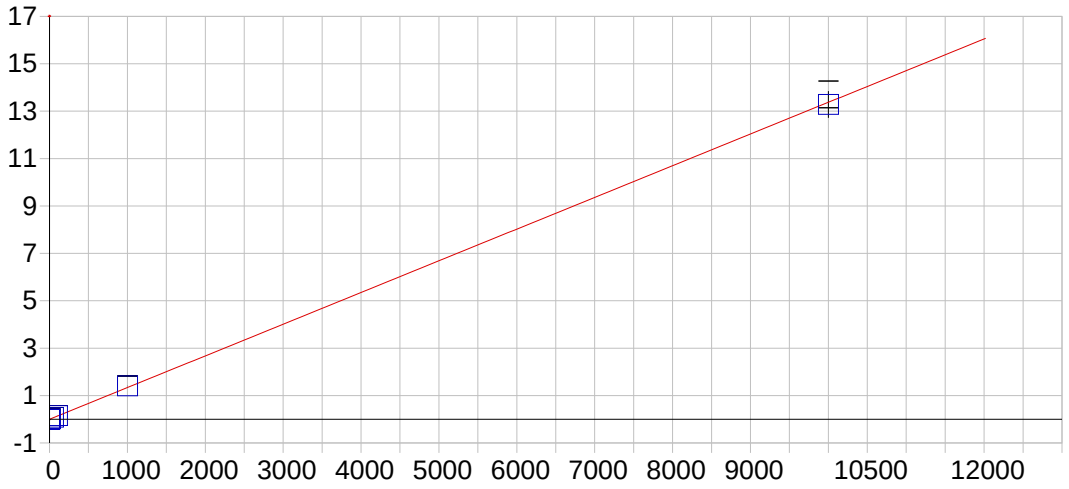


Si 251.611 {134}

Date of Fit:	12/09/2010 15:01:23	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000049	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	321.273392		
Predicted MQL:	1070.911306		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00005	.000	1
CalibStd=100	1000.0	1000.0	.000	.000	.00016	.000	1

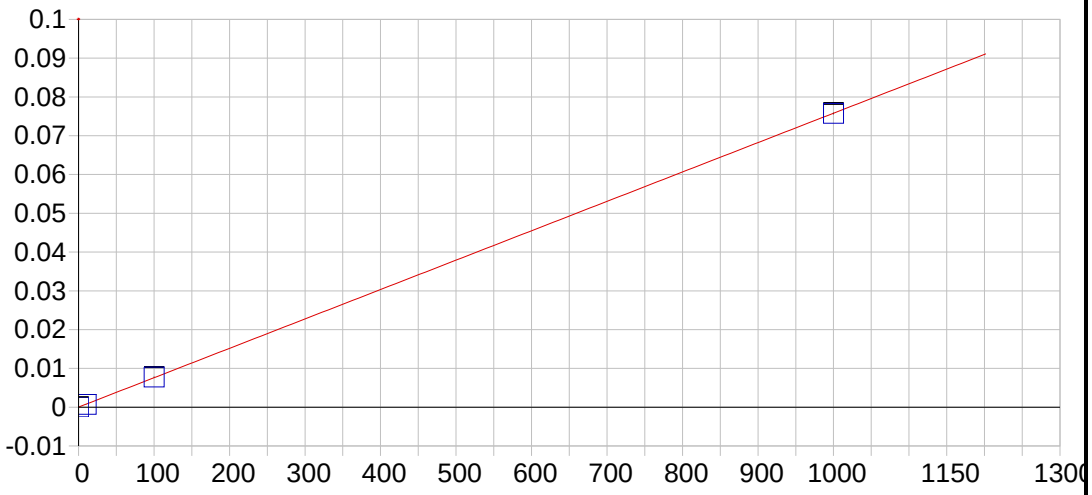


Sr 407.771 { 83}

Date of Fit:	12/09/2010 15:06:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001234	Re-Slope:	1.000000
A1 (Gain):	0.001338	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999763	Status:	OK.
Std Error of Est:	0.000112		
Predicted MDL:	0.087288		
Predicted MQL:	0.290960		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00054	-.001	.000	-.00124	.000	1
CalibStd=1	1.0000	1.0570	.057	5.70	.00018	.000	1
CalibStd=5	5.0000	5.3905	.390	7.81	.00598	.000	1
CalibStd=10	10.000	11.000	1.000	10.00	.01348	.000	1
CalibStd=50	50.000	58.455	8.46	16.9	.07695	.006	1
CalibStd=100	100.00	109.17	9.17	9.17	.14479	.001	1
CalibStd=100	1000.0	1049.3	49.3	4.93	1.4023	.006	1
CalibStd=100	10000.	9931.6	-68.4	-.684	13.283	.563	1



Ti 334.941 {101}

Date of Fit:	12/09/2010 15:01:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000019	Re-Slope:	1.000000
A1 (Gain):	0.000076	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999923	Status:	OK.
Std Error of Est:	0.000004		
Predicted MDL:	0.905839		
Predicted MQL:	3.019463		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00097	.001	.000	.00002	.000	1
CalibStd=10	10.000	8.8497	-1.15	-11.5	.00069	.000	1
CalibStd=100	100.00	101.92	1.92	1.92	.00774	.000	1
CalibStd=100	1000.0	999.23	-.772	-.077	.07575	.000	1

Sample Name: Blank Acquired: 12/09/2010 14:08:53 Type: Cal
Method: DOD Calibration 1(v1308) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	Al3092	Al3961	As1890	As1937	Ba4554	Ba4934	Be2348	Be3130	Ca3179	Ca3933
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.983**	**.488**	**29.5**	**7.70**	**-.209**	**-.537**	**-.934**	**1080.**	**-.497**	**4.34**	**305.**	**4450.**
Stddev	3.00	.022	3.5	1.38	.078	.487	4.36	22.	.294	2.59	18.	3950.
%RSD	306.	4.43	11.9	18.0	37.5	90.8	466.	2.04	59.3	59.7	5.93	88.7

Elem	Ca3968	Cd2265	Cd2288	Co2286	Co2388	Cr2677	Cr2835	Cu2247	Fe2343	Fe2395	Fe2599	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1610.**	**.031**	**1.03**	**.144**	**.908**	**.832**	**2.35**	**5.18**	**1.09**	**1.96**	**6.69**	**.147**
Stddev	1430.	.351	.62	.425	.909	1.07	.98	.16	.78	1.49	2.68	.314
%RSD	88.8	1140.	59.9	294.	100.	128.	41.9	3.10	72.0	76.2	40.1	214.

Elem	Mg2795	Mg2802	Mn2576	Mn2593	Mo2020	Mo2045	Ni2216	Ni2316	Pb2169	Pb2203	Sb2068	Sb2175
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**51.0**	**60.6**	**.590**	**1.49**	**.446**	**.427**	**-.157**	**-.070**	**.519**	**.000**	**.000**	**-.108**
Stddev	39.1	43.8	3.26	3.21	.135	.071	.367	.202	.407	.00	.00	.410
%RSD	76.7	72.4	553.	216.	30.2	16.7	234.	288.	78.4	355.	26.5	378.

Elem	Se1960	Se2062	Tl1908	V_2908	V_2924	Zn2062	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.199**	**-.111**	**.000**	**.000**	**.000**	**.000**	**.000**
Stddev	.189	.509	.00	.000	.00	.000	.000
%RSD	94.6	458.	39.8	30.1	1340.	2.98	5.62

Sample Name: Blank Acquired: 12/09/2010 14:08:53 Type: Cal
Method: DOD Calibration 1(v1308) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Units	Cts/S
Avg	**46764.**
Stddev	395.
%RSD	.84509

Sample Name: CalibStd=0.25 Acquired: 12/09/2010 14:14:10 Type: Cal
Method: DOD Calibration 1(v1308) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Be3130	Cd2265
Units	Cts/S	Cts/S
Avg	**12.0**	**1.61**
Stddev	1.8	.09
%RSD	14.6	5.37

Sample Name: CalibStd=0.5 Acquired: 12/09/2010 14:19:29 Type: Cal
Method: DOD Calibration 1(v1308) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Be3130	Cd2265
Units	Cts/S	Cts/S
Avg	**21.4**	**2.11**
Stddev	1.8	.23
%RSD	8.40	10.8

Sample Name: CalibStd=1 Acquired: 12/09/2010 14:24:48 Type: Cal
Method: DOD Calibration 1(v1308) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Ba4554	Cd2265	Co2286	Cr2677	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.83**	**31.4**	**3.95**	**1.76**	**.067**	**5.78**	**.816**
Stddev	2.65	7.0	.48	.06	.880	1.90	.246
%RSD	145.	22.4	12.0	3.49	1320.	32.9	30.1

Int. Std.	Y_3600
Units	Cts/S
Avg	**47225.**
Stddev	608.
%RSD	1.2884

Sample Name: CalibStd=5 Acquired: 12/09/2010 14:30:07 Type: Cal
Method: DOD Calibration 1(v1308) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	Ba4554	Be3130	Cd2265	Co2286	Cr2677	Cu2247	Mn2576	Mo2020	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6.38**	**.778**	**134.**	**203.**	**22.0**	**8.10**	**2.63**	**9.20**	**21.4**	**2.72**	**4.07**	**.000**
Stddev	3.76	.212	2.	1.	.2	.33	3.46	.55	1.1	.03	.54	.000
%RSD	58.9	27.3	1.13	.596	.877	4.04	132.	5.96	4.97	1.12	13.1	7.85

Elem	V_2924
Units	Cts/S
Avg	**.000**
Stddev	.000
%RSD	47.9

Int. Std.	Y_3600
Units	Cts/S
Avg	**47323.**
Stddev	195.
%RSD	.41109

Sample Name: CalibStd=10 Acquired: 12/09/2010 14:35:27 Type: Cal
Method: DOD Calibration 1(v1308) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Cd2265	Co2286	Cr2677	Cu2247	Mg2795	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**17.7**	**.997**	**-.037**	**282.**	**402.**	**43.9**	**16.2**	**6.11**	**13.9**	**90.4**	**41.5**	**4.95**
Stddev	4.1	.334	.325	1.	4.	.2	.2	.28	.2	4.3	2.6	.28
%RSD	23.5	33.5	885.	.400	1.000	.404	1.03	4.67	1.45	4.74	6.36	5.66

Elem	Ni2316	Pb2203	Sb2068	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**8.69**	**.000**	**.000**	**1.37**	**.750**	**.000**	**.000**	**.001**
Stddev	.42	.000	.000	.38	.098	.000	.000	.000
%RSD	4.90	4.42	5.57	27.5	13.1	205.	40.6	.681

Int. Std.	Y_3600
Units	Cts/S
Avg	**46722.**
Stddev	638.
%RSD	1.3665

Sample Name: CalibStd=20 Acquired: 12/09/2010 14:40:46 Type: Cal
Method: DOD Calibration 1(v1308) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al1670	Ba4554	Cr2677	Fe2599	Mg2795	Mn2576	Mo2020	Ni2316	Sb2175	Tl1908	V_2924
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.99**	**584.**	**14.9**	**17.3**	**172.**	**82.0**	**9.53**	**18.7**	**3.57**	**.000**	**.000**
Stddev	.15	5.	1.7	.7	1.	1.3	.33	.2	.50	.000	.000
%RSD	7.37	.940	11.2	4.00	.723	1.59	3.43	.976	14.1	25.5	17.3

Int. Std.	Y_3600
Units	Cts/S
Avg	**46497.**
Stddev	309.
%RSD	.66392

Sample Name: CalibStd=50 Acquired: 12/09/2010 14:46:03 Type: Cal
Method: DOD Calibration 1(v1308) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al1670	As1937	Ba4554	Ca3933	Cd2265	Co2286	Cr2677	Cr2835	Cu2247	Fe2599	Mg2795	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4.43**	**1.52**	**1440.**	**5700.**	**218.**	**80.3**	**32.1**	**45.2**	**48.5**	**34.1**	**412.**	**203.**
Stddev	.03	.17	3.	23.	1.	.9	.8	2.0	.6	1.9	1.	3.
%RSD	.628	11.4	.175	.406	.603	1.18	2.58	4.45	1.19	5.49	.360	1.41

Elem	Mo2020	Mo2045	Ni2316	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**23.5**	**18.3**	**44.9**	**.000**	**1.92**	**.000**	**.001**	**.002**
Stddev	.0	.2	.9	.000	.14	.000	.000	.000
%RSD	.048	.994	1.92	8.61	7.14	11.3	16.3	7.93

Int. Std.	Y_3600
Units	Cts/S
Avg	**45688.**
Stddev	3418.
%RSD	7.4820

Sample Name: CalibStd=100 Acquired: 12/09/2010 14:51:18 Type: Cal
Method: DOD Calibration 1(v1308) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	As1890	As1937	Ba4554	Be2348	Be3130	Ca3968	Cd2265	Cd2288	Co2286	Cr2677	Cr2835
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**133.**	**2.21**	**2.53**	**2780.**	**263.**	**4240.**	**3740.**	**437.**	**370.**	**165.**	**64.6**	**89.9**
Stddev	1.	.23	.29	20.	2.	18.	9.	1.	1.	.	.1	.8
%RSD	1.03	10.5	11.3	.710	.801	.432	.230	.327	.395	.243	.128	.898

Elem	Cu2247	Fe2599	Mn2576	Mo2020	Mo2045	Ni2216	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**91.9**	**68.4**	**404.**	**46.7**	**35.3**	**154.**	**85.6**	**.001**	**18.5**	**3.60**	**.000**	**.002**
Stddev	.3	2.0	5.	.4	.2	1.	.8	.000	.5	.13	.000	.000
%RSD	.375	2.90	1.34	.846	.475	.346	.894	1.41	2.70	3.66	7.31	2.59

Elem	Zn2138
Units	Cts/S
Avg	**.005**
Stddev	.000
%RSD	1.45

Int. Std.	Y_3600
Units	Cts/S
Avg	**46852.**
Stddev	472.
%RSD	1.0081

Sample Name: CalibStd=1000 Acquired: 12/09/2010 14:56:29 Type: Cal
Method: DOD Calibration 1(v1308) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al1670	Al3092	Al3961	As1890	As1937	Ba4934	Be2348	Be3130	Ca3179	Ca3933	Ca3968
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**73.6**	**256.**	**611.**	**20.1**	**28.0**	**36600.**	**2620.**	**41600.**	**806.**	**96300.**	**34900.**
Stddev	.5	2.	1.	.1	.3	172.	8.	143.	1.	638.	244.
%RSD	.716	.967	.154	.747	1.19	.470	.310	.344	.122	.662	.700

Elem	Cd2265	Cd2288	Co2286	Co2388	Cr2677	Cr2835	Cu2247	Fe2343	Fe2395	Fe2599	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4270.**	**3620.**	**1640.**	**223.**	**624.**	**868.**	**852.**	**69.8**	**184.**	**650.**	**19.7**
Stddev	2.	10.	2.	.	4.	6.	1.	.4	2.	3.	.6
%RSD	.039	.273	.129	.166	.594	.682	.063	.566	.821	.441	2.86

Elem	Mg2802	Mn2576	Mn2593	Mo2020	Mo2045	Ni2216	Ni2316	Pb2169	Pb2203	Sb2068	Sb2175
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**10800.**	**3960.**	**3280.**	**458.**	**351.**	**1530.**	**840.**	**71.6**	**.007**	**.003**	**185.**
Stddev	39.	21.	15.	1.	.	1.	3.	.8	.000	.000	1.
%RSD	.359	.537	.447	.140	.032	.097	.340	1.17	.245	1.11	.378

Elem	Se1960	Se2062	Tl1908	V_2908	V_2924	Zn2062	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**33.7**	**9.07**	**.001**	**.018**	**.015**	**.021**	**.045**
Stddev	.2	.05	.000	.000	.000	.000	.000
%RSD	.541	.526	.615	.285	1.55	.372	.225

Sample Name: CalibStd=1000 Acquired: 12/09/2010 14:56:29 Type: Cal
Method: DOD Calibration 1(v1308) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Units	Cts/S
Avg	**47176.**
Stddev	89.
%RSD	.18807

Sample Name: CalibStd=10000 Acquired: 12/09/2010 15:01:27 Type: Cal
Method: DOD Calibration 1(v1308) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al3092	Al3961	As1890	Ba4934	Ca3179	Ca3968	Co2388	Cr2835	Cu2247	Fe2343
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2280.**	**5950.**	**196.**	**350000.**	**5340.**	**329000.**	**2170.**	**8410.**	**7970.**	**668.**
Stddev	17.	48.	1.	2030.	27.	1930.	16.	63.	9.	6.
%RSD	.762	.811	.257	.580	.502	.585	.715	.750	.116	.854

Elem	Fe2395	Mg2790	Mg2802	Mn2576	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068	Sb2175
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1750.**	**153.**	**102000.**	**38100.**	**31300.**	**3350.**	**14000.**	**656.**	**.027**	**1790.**
Stddev	16.	2.	782.	214.	238.	4.	31.	.	.001	3.
%RSD	.910	1.40	.767	.561	.760	.113	.220	.038	4.39	.184

Elem	Se1960	Se2062	Tl1908	V_2908	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**318.**	**84.7**	**.011**	**.179**	**.197**
Stddev	1.	.7	.000	.009	.008
%RSD	.249	.786	4.45	4.80	4.19

Int. Std.	Y_3600
Units	Cts/S
Avg	**47352.**
Stddev	2007.
%RSD	4.2382

Sample Name: CalibStd-100k Acquired: 12/09/2010 15:06:51 Type: Cal
Method: DOD Calibration 1(v1308) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Cr2835	Mn2593	Pb2169	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**83600.**	**301000.**	**6490.**	**1.67**
Stddev	203.	5110.	11.	.01
%RSD	.242	1.70	.170	.742

Int. Std.	Y_3600
Units	Cts/S
Avg	**46973.**
Stddev	273.
%RSD	.58080

Sample Name: CalibStd=100000 Acquired: 12/09/2010 15:12:17 Type: Cal
Method: DOD Calibration 1(v1308) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al3092	Al3961	Ca3179	Fe2343
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**21100.**	**56300.**	**48500.**	**6320.**
Stddev	48.	126.	39.	16.
%RSD	.227	.225	.080	.250

Int. Std.	Y_3600
Units	Cts/S
Avg	**45159.**
Stddev	457.
%RSD	1.0110

Sample Name: CalibStd=500000 Acquired: 12/09/2010 15:17:52 Type: Cal
Method: DOD Calibration 1(v1308) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al3961	Ca3179	Fe2343	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**285000.**	**224000.**	**28900.**	**8090.**
Stddev	1530.	1400.	148.	49.
%RSD	.538	.625	.511	.599

Sample Name: CalibStd-1000k Acquired: 12/09/2010 15:23:33 Type: Cal
Method: DOD Calibration 1(v1308) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al3961	Ca3179	Fe2343	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**548000.**	**407000.**	**52100.**	**15300.**
Stddev	9470.	2760.	140.	56.
%RSD	1.73	.677	.268	.368

Sample Name: icv Acquired: 12/09/2010 15:34:42 Type: QC
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2388	Cr2677	Cu2247	Fe2343
Avg	**122.**	**12700.**	**2130.**	**2080.**	**51.1**	**10500.**	**50.5**	**510.**	**204.**	**259.**	**5150.**
Stddev	2.	37.	13.	8.	.2	42.	.2	11.	4.	1.	24.
%RSD	1.73	.289	.593	.394	.315	.404	.390	2.17	1.75	.305	.458
Check ?	None	None	None	None	None	None	None	None	None	None	None
Value											
Range											

Elem	Mg2790	Mn2576	Mo2020	Ni2216	Pb2203	Sb2068	Se2062	Tl1908	V_2924	Zn2138
Avg	**9440.**	**521.**	**514.**	**530.**	**521.**	**519.**	**2190.**	**2090.**	**514.**	**531.**
Stddev	59.	2.	1.	1.	11.	17.	36.	36.	11.	11.
%RSD	.627	.425	.117	.130	2.09	3.21	1.66	1.74	2.04	2.00
Check ?	None	None	None	None	None	None	None	None	None	None
Value										
Range										

Int. Std.	Y_3600
Avg	**46129.**
Stddev	896.
%RSD	1.9420

Sample Name: icb Acquired: 12/09/2010 15:45:19 Type: QC
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**-.548**	**20.0**	**-4.62**	**.023**	**-.069**	**-11.1**	**-.084**	**-.005**	**.991**	**-.248**	**12.6**	**13.0**
Stddev	2.28	5.6	3.01	.211	.079	2.7	.217	.308	.351	.303	2.9	2.9
%RSD	416.	28.1	65.2	905.	115.	24.0	258.	5750.	35.4	122.	23.0	22.8
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**.084**	**-.361**	**-.945**	**1.30**	**2.53**	**-3.98**	**-2.13**	**-2.33**	**-3.04**
Stddev	.019	.791	.186	.50	.72	6.38	2.21	3.50	.14
%RSD	22.3	219.	19.6	38.8	28.6	160.	104.	150.	4.70
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**46712.**
Stddev	114.
%RSD	.24462

Sample Name: MRL Acquired: 12/09/2010 15:50:36 Type: QC
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	**18.4**	**425.**	**10.9**	**10.00**	**3.93**	**476.**	**5.20**	**10.1**	**7.95**	**11.0**	**286.**	**528.**
Stddev	2.2	2.	12.9	.153	.11	5.	.17	.2	2.39	.2	4.	4.
%RSD	11.9	.586	118.	1.53	2.81	1.04	3.31	2.03	30.1	2.17	1.30	.671
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**11.2**	**10.2**	**10.1**	**11.5**	**21.5**	**7.26**	**20.4**	**9.13**	**9.32**
Stddev	.5	.4	.3	1.8	1.8	8.93	4.5	1.27	.21
%RSD	4.12	4.31	3.30	15.9	8.45	123.	22.0	13.9	2.25
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**46071.**
Stddev	452.
%RSD	.98115

Sample Name: icsa Acquired: 12/09/2010 15:55:52 Type: QC
Method: DOD Calibration 1(v1309) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3961	As1937	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Avg	**.000**	**513000.**	**-.065**	**-.020**	**.061**	**515000.**	**.008**	**.000**	**.000**	**-.002**
Stddev	1.16	703.	15.4	.300	.129	3590.	.308	.24	5.24	.800
%RSD	131e15	.137	23800.	1500.	214.	.697	3620.	70800.	104e6	46500.
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2343	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Avg	**502000.**	**534000.**	**.000**	**.000**	**.018**	**.096**	**-.084**	**-.021**	**-.115**	**-.266**
Stddev	900.	2360.	.128	.67	.518	2.80	7.30	15.0	1.45	3.08
%RSD	.179	.442	27e6	1220000.	2860.	2910.	8660.	72500.	1270.	1160.
Check ?	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Zn2138
Avg	**.000**
Stddev	1.66
%RSD	1070000.
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: icsa Acquired: 12/09/2010 15:55:52 Type: QC
Method: DOD Calibration 1(v1309) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Avg	**42120.**
Stddev	532.
%RSD	1.2621

Sample Name: icsab Acquired: 12/09/2010 16:01:35 Type: QC
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be2348	Ca3179	Cd2288	Co2388	Cr2677	Cu2247
Avg	**459.**	**520000.**	**467.**	**460.**	**482.**	**522000.**	**427.**	**571.**	**486.**	**447.**
Stddev	2.	2980.	11.	3.	2.	3260.	.	12.	3.	3.
%RSD	.328	.573	2.42	.625	.492	.625	.054	2.14	.622	.770
Check ?	None	None	None	None	None	None	None	None	None	None
Value										
Range										

Elem	Fe2343	Mg2790	Mn2576	Mo2020	Ni2216	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Avg	**514000.**	**498000.**	**476.**	**435.**	**430.**	**443.**	**539.**	**435.**	**450.**	**542.**
Stddev	2370.	1100.	2.	2.	1.	2.	12.	9.	18.	4.
%RSD	.461	.221	.419	.402	.125	.486	2.17	2.03	3.93	.782
Check ?	None	None	None	None	None	None	None	None	None	None
Value										
Range										

Elem	Zn2138
Avg	**494.**
Stddev	6.
%RSD	1.15
Check ?	None
Value	
Range	

Sample Name: icsab Acquired: 12/09/2010 16:01:35 Type: QC
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Avg	**41983.**
Stddev	369.
%RSD	.87987

Sample Name: ccv1 Acquired: 12/09/2010 20:49:19 Type: QC
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be2348	Ca3179	Cd2288	Co2388	Cr2835	Cu2247	Fe2395	Mg2790
Avg	**497.**	**5460.**	**5220.**	**5140.**	**505.**	**5370.**	**514.**	**5290.**	**5290.**	**5360.**	**5380.**	**5130.**
Stddev	6.	52.	18.	40.	3.	19.	.	21.	31.	3.	43.	83.
%RSD	1.18	.945	.352	.775	.568	.355	.064	.388	.584	.048	.806	1.62
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2593	Mo2045	Ni2216	Pb2169	Sb2175	Se2062	Tl1908	V_2908	Zn2062
Avg	**5250.**	**5170.**	**5200.**	**5260.**	**5190.**	**5240.**	**5170.**	**5230.**	**5340.**
Stddev	53.	9.	12.	30.	17.	64.	68.	106.	83.
%RSD	1.00	.166	.233	.566	.323	1.22	1.31	2.03	1.55
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**45898.**
Stddev	663.
%RSD	1.4434

Sample Name: ccv2 Acquired: 12/09/2010 20:54:28 Type: QC
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4934	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**50.5**	**535.**	**514.**	**488.**	**49.4**	**491.**	**50.5**	**491.**	**491.**	**528.**	**498.**	**548.**
Stddev	2.0	3.	6.	1.	.3	.	.0	1.	3.	1.	2.	2.
%RSD	3.86	.555	1.14	.296	.680	.081	.070	.230	.636	.250	.346	.362
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**507.**	**483.**	**514.**	**502.**	**497.**	**518.**	**508.**	**493.**	**499.**
Stddev	2.	.	3.	10.	12.	7.	10.	9.	10.
%RSD	.392	.088	.609	1.96	2.38	1.33	1.88	1.87	1.91
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**46618.**
Stddev	971.
%RSD	2.0832

Sample Name: ccb Acquired: 12/09/2010 21:04:52 Type: QC
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**-.509**	**6.11**	**2.52**	**.253**	**-.042**	**-12.8**	**.085**	**-.006**	**-.532**	**-.329**	**6.68**	**1.88**
Stddev	2.54	1.37	4.44	.218	.014	.2	.067	.073	2.30	.335	.83	.07
%RSD	499.	22.4	176.	86.4	33.8	1.32	78.9	1220.	431.	102.	12.4	3.58
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**.397**	**.402**	**-.061**	**1.42**	**-1.19**	**.113**	**-3.52**	**.644**	**-1.89**
Stddev	.400	.411	.242	.77	.92	5.14	5.50	1.89	.14
%RSD	101.	102.	397.	53.9	77.6	4560.	156.	293.	7.46
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**46838.**
Stddev	1585.
%RSD	3.3835

Sample Name: lcss35623 Acquired: 12/09/2010 21:32:13 Type: Unk
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2388	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**83.8**	**3900.**	**3610.**	**3370.**	**88.9**	**197000.**	**83.0**	**922.**	**375.**	**428.**
Stddev	3.7	8.	26.	9.	.2	1040.	.3	6.	4.	1.
%RSD	4.41	.198	.715	.274	.176	.528	.352	.687	1.04	.146

Elem	Fe2395	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se2062	Tl1908	V_2908
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1860.**	**85000.**	**912.**	**.289**	**924.**	**813.**	**1090.**	**3230.**	**3750.**	**982.**
Stddev	8.	451.	5.	.710	2.	5.	5.	48.	27.	6.
%RSD	.429	.530	.501	245.	.213	.620	.493	1.48	.731	.586

Elem	Zn2138
Units	ug/L
Avg	**962.**
Stddev	4.
%RSD	.467

Int. Std.	Y_3600
Units	Cts/S
Avg	**41652.**
Stddev	239.
%RSD	.57292

Sample Name: mbs35623 Acquired: 12/09/2010 21:37:39 Type: Unk
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1.23**	**33.2**	**-7.18**	**.427**	**-.031**	**7.85**	**-.010**	**-.153**	**-.158**	**-.564**	**54.1**	**5.69**
Stddev	2.42	1.6	9.19	.109	.108	.72	.085	.175	.484	.652	1.7	.47
%RSD	197.	4.77	128.	25.4	352.	9.15	888.	115.	307.	116.	3.21	8.29

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**3.71**	**-.307**	**-.532**	**1.57**	**.439**	**-1.19**	**.430**	**-.501**	**-.076**
Stddev	.24	.337	.345	.17	3.09	5.47	4.23	3.95	.076
%RSD	6.53	110.	64.9	10.8	703.	460.	984.	790.	101.

Int. Std.	Y_3600
Units	Cts/S
Avg	**44717.**
Stddev	125.
%RSD	.28005

Sample Name: 869552 Acquired: 12/09/2010 21:42:58 Type: Unk
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-3.39**	**282000.**	**193.**	**1840.**	**13.5**	**102000.**	**16.1**	**195.**	**1020.**	**274.**
Stddev	1.25	2790.	9.	14.	.2	709.	.5	1.	9.	1.
%RSD	37.0	.989	4.66	.780	1.44	.693	3.10	.699	.830	.293

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**582000.**	**60900.**	**17700.**	**22.1**	**468.**	**417.**	**12.7**	**18.2**	**15.2**	**540.**
Stddev	5200.	508.	188.	1.7	25.	28.	3.5	6.4	1.7	27.
%RSD	.893	.834	1.06	7.90	5.33	6.66	27.9	35.2	11.2	5.05

Elem	Zn2062
Units	ug/L
Avg	**1360.**
Stddev	53.
%RSD	3.90

Int. Std.	Y_3600
Units	Cts/S
Avg	**44407.**
Stddev	1599.
%RSD	3.6012

Sample Name: I869552 Acquired: 12/09/2010 21:48:28 Type: Unk
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3092	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-1.42**	**59600.**	**-27.8**	**393.**	**2.90**	**22000.**	**3.47**	**43.2**	**269.**	**61.9**
Stddev	3.11	2070.	11.5	14.	.13	750.	.06	.7	6.	.9
%RSD	219.	3.48	41.5	3.54	4.58	3.41	1.62	1.70	2.38	1.48

Elem	Fe2343	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**121000.**	**9520.**	**3910.**	**3.33**	**101.**	**91.2**	**5.50**	**2.70**	**-.879**	**111.**
Stddev	3950.	218.	126.	.32	2.	1.5	5.43	3.65	6.83	4.
%RSD	3.27	2.29	3.22	9.70	1.55	1.67	98.7	135.	778.	3.73

Elem	Zn2138
Units	ug/L
Avg	**307.**
Stddev	3.
%RSD	.955

Int. Std.	Y_3600
Units	Cts/S
Avg	**46143.**
Stddev	506.
%RSD	1.0966

Sample Name: dup869552 Acquired: 12/09/2010 21:53:51 Type: Unk
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-2.02**	**238000.**	**165.**	**1580.**	**11.7**	**89500.**	**10.1**	**152.**	**862.**	**217.**
Stddev	2.06	10500.	10.	77.	.6	3920.	.6	2.	35.	2.
%RSD	102.	4.40	5.90	4.85	5.35	4.37	6.09	1.39	4.05	.843

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**496000.**	**50900.**	**14900.**	**18.4**	**365.**	**294.**	**7.84**	**21.9**	**15.3**	**458.**
Stddev	22200.	2810.	718.	.5	6.	2.	.10	9.2	6.1	17.
%RSD	4.48	5.53	4.81	2.88	1.68	.719	1.24	42.0	40.0	3.63

Elem	Zn2062
Units	ug/L
Avg	**1060.**
Stddev	15.
%RSD	1.42

Int. Std.	Y_3600
Units	Cts/S
Avg	**44912.**
Stddev	162.
%RSD	.36012

Sample Name: mss869552 Acquired: 12/09/2010 21:59:17 Type: Unk
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2388	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**47.0**	**390000.**	**1670.**	**3610.**	**59.8**	**202000.**	**33.9**	**822.**	**925.**	**379.**
Stddev	2.3	35600.	70.	300.	4.9	16900.	1.0	93.	75.	10.
%RSD	4.94	9.12	4.16	8.31	8.23	8.34	2.88	11.3	8.13	2.65

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se2062	Tl1908	V_2908
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**666000.**	**103000.**	**16100.**	**19.1**	**797.**	**645.**	**53.2**	**1120.**	**1550.**	**991.**
Stddev	60900.	8880.	1310.	1.6	46.	68.	4.8	77.	50.	64.
%RSD	9.15	8.63	8.15	8.56	5.72	10.5	9.02	6.86	3.20	6.50

Elem	Zn2062
Units	ug/L
Avg	**1460.**
Stddev	42.
%RSD	2.86

Int. Std.	Y_3600
Units	Cts/S
Avg	**42156.**
Stddev	1034.
%RSD	2.4535

Sample Name: ccv1 Acquired: 12/09/2010 22:04:45 Type: QC
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be2348	Ca3179	Cd2288	Co2388	Cr2835	Cu2247	Fe2395	Mg2802
Avg	**484.**	**5320.**	**5060.**	**4680.**	**479.**	**5320.**	**492.**	**5260.**	**5230.**	**5370.**	**5290.**	**5320.**
Stddev	4.	17.	14.	38.	4.	23.	1.	27.	31.	9.	35.	36.
%RSD	.731	.319	.281	.812	.882	.425	.275	.506	.596	.166	.654	.683
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2593	Mo2045	Ni2216	Pb2169	Sb2175	Se2062	Tl1908	V_2908	Zn2062
Avg	**4770.**	**4900.**	**4690.**	**5080.**	**5320.**	**4810.**	**4680.**	**5020.**	**5320.**
Stddev	42.	.	18.	42.	8.	14.	231.	281.	252.
%RSD	.870	.002	.381	.822	.147	.289	4.94	5.59	4.74
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**43723.**
Stddev	2047.
%RSD	4.6822

Sample Name: ccv2 Acquired: 12/09/2010 22:09:54 Type: QC
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1890	Ba4934	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	**49.3**	**547.**	**486.**	**432.**	**47.0**	**473.**	**49.4**	**453.**	**495.**	**528.**	**460.**	**518.**
Stddev	2.4	2.	14.	4.	.4	3.	.1	.	5.	.	5.	4.
%RSD	4.93	.307	2.81	.888	.747	.642	.260	.104	.940	.089	1.10	.794
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2216	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**498.**	**465.**	**449.**	**515.**	**563.**	**497.**	**459.**	**511.**	**514.**
Stddev	3.	1.	1.	13.	17.	9.	21.	16.	14.
%RSD	.663	.261	.202	2.50	3.00	1.74	4.50	3.10	2.81
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**43895.**
Stddev	1238.
%RSD	2.8211

Sample Name: ccb Acquired: 12/09/2010 22:20:18 Type: QC
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**-1.10**	**6.83**	**-1.01**	**.801**	**-.003**	**-11.9**	**-.032**	**.044**	**-1.92**	**-.748**	**7.25**	**1.32**
Stddev	2.07	2.37	4.65	.066	.095	.1	.060	.206	1.61	.427	2.40	.11
%RSD	188.	34.7	460.	8.23	2860.	.525	191.	467.	83.6	57.1	33.2	8.25
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**.850**	**.099**	**-.533**	**.180**	**-.410**	**-3.05**	**1.03**	**.549**	**-1.66**
Stddev	.130	.579	.216	.821	1.67	6.46	8.76	5.31	.08
%RSD	15.3	583.	40.4	457.	408.	212.	848.	968.	4.88
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**44665.**
Stddev	822.
%RSD	1.8402

Sample Name: msds869552 Acquired: 12/09/2010 22:25:36 Type: Unk
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2388	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**39.2**	**350000.**	**1760.**	**3130.**	**53.9**	**185000.**	**42.8**	**717.**	**805.**	**404.**
Stddev	1.4	9860.	5.	99.	1.5	5240.	1.4	16.	12.	1.
%RSD	3.53	2.82	.286	3.16	2.79	2.84	3.23	2.24	1.52	.302

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se2062	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**597000.**	**86900.**	**14300.**	**19.0**	**796.**	**695.**	**49.4**	**1270.**	**1490.**	**936.**
Stddev	15000.	2300.	410.	1.1	8.	8.	4.7	56.	28.	27.
%RSD	2.51	2.64	2.86	5.94	.961	1.11	9.59	4.39	1.90	2.87

Elem	Zn2062
Units	ug/L
Avg	**1520.**
Stddev	23.
%RSD	1.53

Int. Std.	Y_3600
Units	Cts/S
Avg	**43280.**
Stddev	635.
%RSD	1.4676

Sample Name: pdss869552 Acquired: 12/09/2010 22:31:05 Type: Unk
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2388	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**82.9**	**438000.**	**3490.**	**5020.**	**95.6**	**486000.**	**82.2**	**1230.**	**1050.**	**571.**
Stddev	1.5	2990.	10.	22.	.8	10400.	.4	20.	6.	3.
%RSD	1.78	.682	.294	.440	.844	2.15	.528	1.61	.590	.460

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2216	Pb2169	Sb2068	Se2062	Tl1908	V_2908
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**673000.**	**245000.**	**30500.**	**18.0**	**1120.**	**15.1**	**961.**	**2980.**	**3160.**	**1350.**
Stddev	6370.	1070.	96.	1.0	1.	31.4	35.	76.	121.	51.
%RSD	.947	.437	.315	5.55	.098	209.	3.63	2.54	3.81	3.80

Elem	Zn2062
Units	ug/L
Avg	**1860.**
Stddev	66.
%RSD	3.56

Int. Std.	Y_3600
Units	Cts/S
Avg	**42622.**
Stddev	1434.
%RSD	3.3649

Sample Name: 869553 Acquired: 12/09/2010 22:36:39 Type: Unk
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-1.57**	**229000.**	**190.**	**1920.**	**12.9**	**155000.**	**14.1**	**151.**	**361.**	**188.**
Stddev	4.23	306.	2.	7.	.0	88.	.4	.	3.	1.
%RSD	270.	.134	.853	.377	.112	.057	2.80	.128	.824	.465

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**462000.**	**52800.**	**23800.**	**22.7**	**417.**	**362.**	**3.71**	**30.5**	**11.2**	**483.**
Stddev	1040.	519.	78.	1.6	2.	7.	1.15	12.4	10.5	5.
%RSD	.225	.983	.329	6.80	.570	1.98	30.9	40.8	93.8	1.07

Elem	Zn2138
Units	ug/L
Avg	**941.**
Stddev	14.
%RSD	1.54

Int. Std.	Y_3600
Units	Cts/S
Avg	**44079.**
Stddev	630.
%RSD	1.4292

Sample Name: 869554 Acquired: 12/09/2010 22:42:03 Type: Unk
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-2.37**	**259000.**	**209.**	**1840.**	**13.5**	**132000.**	**16.3**	**192.**	**808.**	**235.**
Stddev	2.20	2970.	14.	18.	.1	1390.	.5	.	9.	2.
%RSD	93.2	1.15	6.59	1.00	.859	1.05	3.15	.259	1.10	.761

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**536000.**	**60200.**	**23100.**	**24.1**	**427.**	**387.**	**14.4**	**18.5**	**3.13**	**472.**
Stddev	6620.	1030.	249.	.5	1.	22.	5.3	5.4	6.86	24.
%RSD	1.24	1.71	1.08	1.95	.189	5.66	36.9	29.5	219.	4.98

Elem	Zn2062
Units	ug/L
Avg	**1220.**
Stddev	58.
%RSD	4.73

Int. Std.	Y_3600
Units	Cts/S
Avg	**46445.**
Stddev	2098.
%RSD	4.5181

Sample Name: 869555 Acquired: 12/09/2010 22:47:27 Type: Unk
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-5.29**	**222000.**	**234.**	**1990.**	**14.9**	**188000.**	**13.9**	**148.**	**906.**	**219.**
Stddev	1.77	795.	21.	10.	.1	838.	.1	.	8.	1.
%RSD	33.4	.359	8.73	.489	1.01	.445	.620	.060	.923	.368

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**511000.**	**51700.**	**21300.**	**21.8**	**473.**	**565.**	**22.0**	**4.20**	**17.0**	**411.**
Stddev	2600.	114.	92.	1.1	2.	5.	4.7	6.16	12.8	1.
%RSD	.509	.221	.431	5.12	.507	.856	21.5	147.	75.0	.347

Elem	Zn2062
Units	ug/L
Avg	**1010.**
Stddev	5.
%RSD	.538

Int. Std.	Y_3600
Units	Cts/S
Avg	**43949.**
Stddev	268.
%RSD	.60899

Sample Name: 869556 Acquired: 12/09/2010 22:52:49 Type: Unk
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-3.07**	**233000.**	**228.**	**1900.**	**14.0**	**275000.**	**12.9**	**167.**	**483.**	**226.**
Stddev	1.26	1740.	9.	11.	.1	1810.	.4	.	3.	2.
%RSD	41.1	.747	4.15	.558	.444	.659	2.87	.113	.525	.791

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**544000.**	**74400.**	**23200.**	**18.8**	**389.**	**425.**	**1960.**	**5.66**	**18.2**	**427.**
Stddev	4590.	473.	96.	.1	1.	3.	8.	7.13	6.0	11.
%RSD	.844	.636	.414	.645	.142	.792	.422	126.	32.9	2.64

Elem	Zn2062
Units	ug/L
Avg	**1270.**
Stddev	9.
%RSD	.745

Int. Std.	Y_3600
Units	Cts/S
Avg	**43050.**
Stddev	288.
%RSD	.66788

Sample Name: ccv1 Acquired: 12/09/2010 23:19:43 Type: QC
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be2348	Ca3179	Cd2288	Co2388	Cr2835	Cu2247	Fe2395	Mg2802
Avg	**488.**	**5350.**	**5180.**	**4950.**	**502.**	**5470.**	**501.**	**5430.**	**5370.**	**5390.**	**5460.**	**5400.**
Stddev	5.	44.	9.	49.	7.	18.	2.	14.	20.	7.	22.	13.
%RSD	1.000	.826	.178	.980	1.33	.322	.325	.263	.366	.122	.405	.244
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2593	Mo2045	Ni2216	Pb2169	Sb2175	Se2062	Tl1908	V_2908	Zn2062
Avg	**5170.**	**5080.**	**4980.**	**5170.**	**5300.**	**5040.**	**5440.**	**5300.**	**5430.**
Stddev	66.	4.	10.	29.	15.	62.	55.	19.	52.
%RSD	1.27	.081	.200	.554	.280	1.22	1.01	.358	.958
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**44377.**
Stddev	384.
%RSD	.86466

Sample Name: ccv2 Acquired: 12/09/2010 23:24:52 Type: QC
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4934	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**48.6**	**550.**	**536.**	**485.**	**49.8**	**499.**	**50.7**	**484.**	**511.**	**529.**	**504.**	**526.**
Stddev	3.1	4.	18.	5.	.2	4.	.2	2.	.	.	4.	4.
%RSD	6.28	.720	3.31	.993	.487	.714	.376	.326	.060	.085	.889	.771
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**515.**	**479.**	**533.**	**520.**	**528.**	**522.**	**534.**	**518.**	**513.**
Stddev	3.	1.	1.	4.	5.	6.	5.	7.	4.
%RSD	.514	.198	.227	.771	.969	1.13	.874	1.40	.854
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**45008.**
Stddev	337.
%RSD	.74800

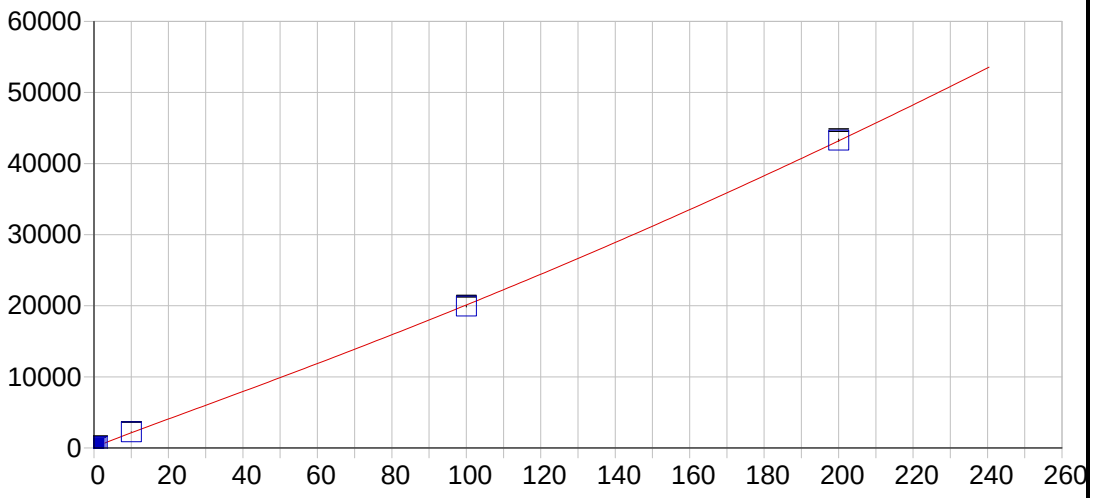
Sample Name: ccb Acquired: 12/09/2010 23:35:15 Type: QC
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**.185**	**6.57**	**-8.38**	**.265**	**-.072**	**-10.7**	**-.026**	**.179**	**.966**	**-.042**	**11.3**	**2.79**
Stddev	.461	2.41	8.23	.196	.024	.2	.143	.214	2.54	.413	4.3	.11
%RSD	250.	36.8	98.1	74.0	33.3	1.85	543.	119.	263.	979.	38.3	3.93
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**.736**	**-.176**	**-.376**	**.369**	**-.546**	**8.44**	**-6.30**	**2.31**	**-1.60**
Stddev	.050	.549	.603	.553	3.04	3.14	4.98	1.90	.12
%RSD	6.83	313.	161.	150.	557.	37.3	79.0	82.2	7.70
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**45022.**
Stddev	545.
%RSD	1.2115

	Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)	Correlation	Std Error of Est	Predicted MDL	Predicted MQL
	K 766.490 { 44}	12/03/2010 14:14:10	12/03/2010 14:14:10	Full Fit	1/Conc	14.860880	254.448879	0.752037	0.910000	0.999896	2.084884	0.030459	0.101530
	Na 330.237 {102}	12/07/2010 06:54:22	12/03/2010 14:14:10	Linear	1/Conc	0.255955	1.252860	0.000000	1.000000	0.998489	0.168731	1.654851	5.516169
	Na 589.592 { 57}	12/03/2010 14:09:17	12/03/2010 14:09:17	Linear	None	24.107054	632.236749	0.000000	1.000000	0.999991	59.059266	0.011384	0.037948
	Y 320.332 {105}*	12/03/2010 13:57:03	12/03/2010 13:57:03	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	-1.000000	-1.000000
	Y 360.073 { 94}	12/03/2010 13:57:03	12/03/2010 13:57:03	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	-1.000000	-1.000000
	Al 308.215 {109}	12/03/2010 14:16:51	12/03/2010 14:16:51	Linear	None	0.003795	0.029117	0.000000	1.000000	1.000000	0.000000	0.018440	0.061467
	Al 396.152 { 85}	12/03/2010 14:16:51	12/03/2010 14:16:51	Linear	1/Conc	0.402525	3.075898	0.000000	1.000000	1.000000	0.000000	1.143649	3.812165
	Mg 279.553 {121}	12/03/2010 14:16:51	12/03/2010 14:16:51	Linear	1/Conc	720.172317	1041.44775	0.000000	1.000000	1.000000	0.000000	0.001050	0.003500
	Mg 285.213 {118}	12/03/2010 14:16:51	12/03/2010 14:16:51	Linear	None	83.835331	449.708874	0.000000	1.000000	1.000000	0.000000	0.002957	0.009856
	Ca 317.933 {106}	12/03/2010 14:16:51	12/03/2010 14:16:51	Linear	None	141.660541	259.017647	0.000000	1.000000	1.000000	0.000000	0.006269	0.020897
	Fe 234.349 {144}	12/03/2010 14:16:51	12/03/2010 14:16:51	Linear	None	2.444124	23.627306	0.000000	1.000000	1.000000	0.000000	0.040022	0.133406



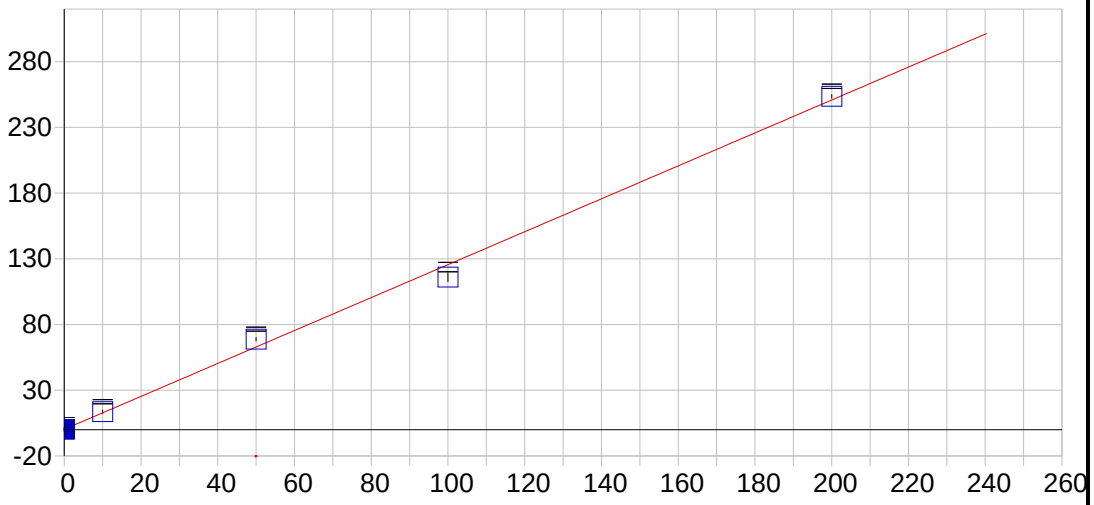
K 766.490 { 44}

Date of Fit:	12/03/2010 14:14:10	Type of Fit:	Full Fit	Weighting:	1/Conc

A0 (Offset):	14.860880	Re-Slope:	1.000000
A1 (Gain):	254.448879	Y-int:	0.000000
A2 (Curvature):	0.752037		
n (Exponent):	0.910000		
Correlation:	0.999896	Status:	Warning
Std Error of Est:	2.084884		
Predicted MDL:	0.030459		
Predicted MQL:	0.101530		

Positive Curvature

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00004	.000	.000	14.884	9.35	1
CalibStd-1.0	1.0000	.93044	-.070	-6.96	253.81	6.02	1
CalibStd-10.0	10.000	10.612	.612	6.12	2253.2	15.0	1
CalibStd-0.5	.50000	.41742	-.083	-16.5	129.91	1.71	1
CalibStd-100	100.00	99.185	-.815	-.815	19936.	106.	1
CalibStd-200	200.00	200.35	.354	.177	43283.	186.	1

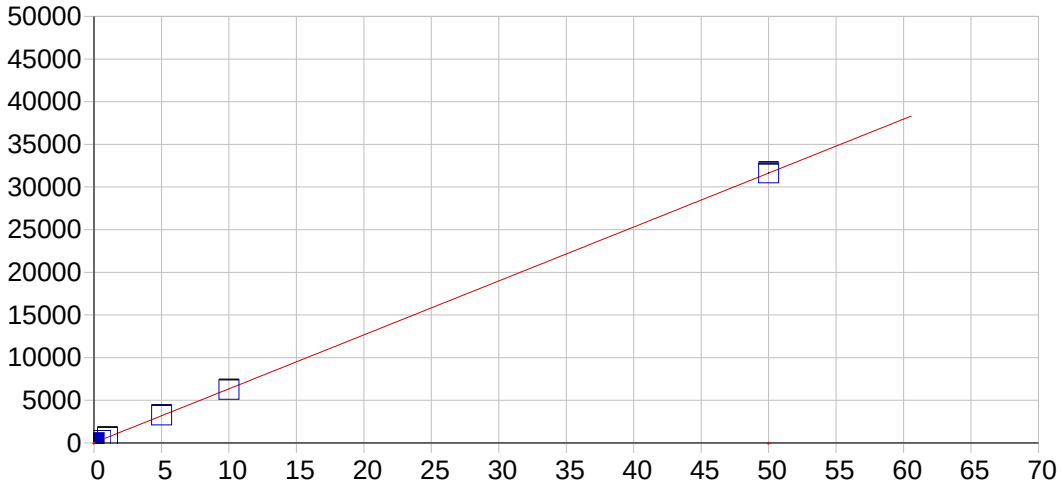


Na 330.237 {102}

Date of Fit:	12/07/2010 06:54:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.255955	Re-Slope:	1.000000
A1 (Gain):	1.252860	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998489	Status:	OK.
Std Error of Est:	0.168731		
Predicted MDL:	1.654851		
Predicted MQL:	5.516169		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00097	-.001	.000	.25474	1.43	1
CalibStd-200	200.00	202.20	2.20	1.10	253.59	1.64	1
CalibStd-10.0	10.000	10.676	.676	6.76	13.632	1.58	1
CalibStd-50	50.000	54.710	4.71	9.42	68.800	1.50	1
CalibStd-100	100.00	92.411	-7.59	-7.59	116.03	3.58	1

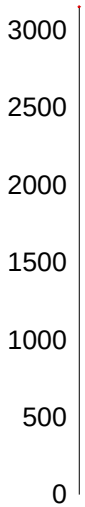


Na 589.592 { 57}

Date of Fit:	12/03/2010 14:09:17	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	24.107054	Re-Slope:	1.000000
A1 (Gain):	632.236749	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999991	Status:	OK.
Std Error of Est:	59.059266		
Predicted MDL:	0.011384		
Predicted MQL:	0.037948		

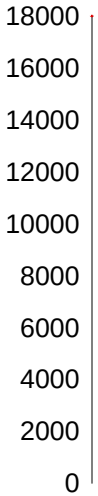
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00176	-.002	.000	22.997	5.25	1
CalibStd-0.5	.50000	.48883	-.011	-2.23	333.17	2.21	1
CalibStd-1.0	1.0000	1.0265	.026	2.65	673.09	13.6	1
CalibStd-5.0	5.0000	5.1137	.114	2.27	3257.2	32.6	1
CalibStd-10.0	10.000	9.8556	-.144	-1.44	6255.2	28.3	1
CalibStd-50	50.000	50.017	.017	.034	31647.	119.	1



Y 320.332 {105}*

Date of Fit:	12/03/2010 13:57:03	Type of Fit:	Linear	Weighting:	1/Conc	
A0 (Offset):	0.000000		Re-Slope:	1.000000		
A1 (Gain):	0.000000		Y-int:	0.000000		
A2 (Curvature):	0.000000					
n (Exponent):	1.000000					
Correlation:	0.000000		Status:	Warning	Zero Gain	
Std Error of Est:	0.000000					
Predicted MDL:	n/a					
Predicted MQL:	n/a					

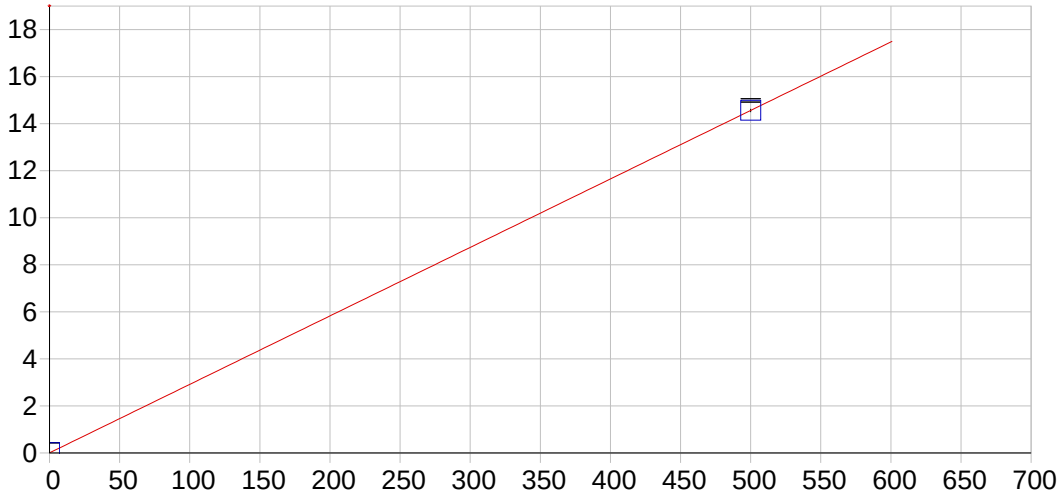
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	2955.6	30.6	1



Y 360.073 { 94}

Date of Fit:	12/03/2010 13:57:03	Type of Fit:	Linear	Weighting:	1/Conc	
A0 (Offset):	0.000000		Re-Slope:	1.000000		
A1 (Gain):	0.000000		Y-int:	0.000000		
A2 (Curvature):	0.000000					
n (Exponent):	1.000000					
Correlation:	0.000000		Status:	Warning	Zero Gain	
Std Error of Est:	0.000000					
Predicted MDL:	n/a					
Predicted MQL:	n/a					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	16749.	211.	1

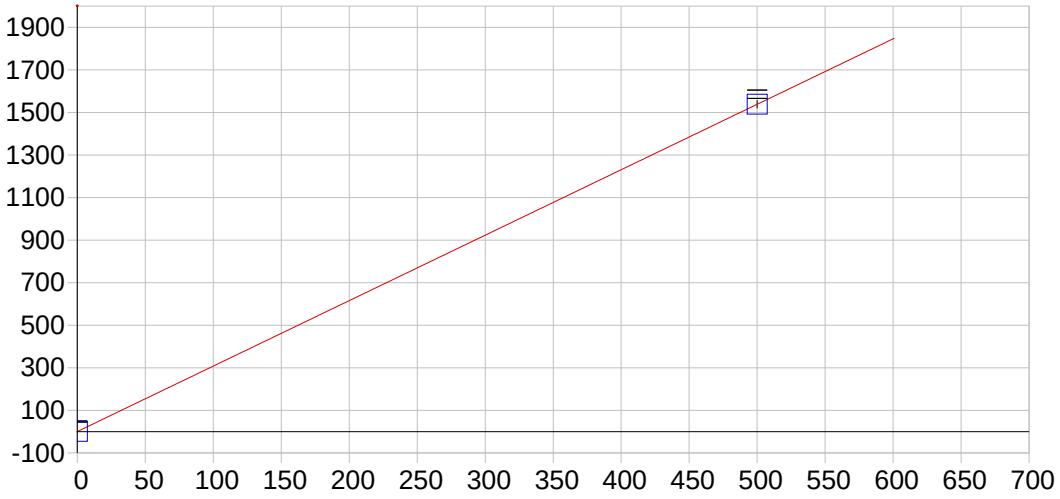


Al 308.215 {109}

Date of Fit:	12/03/2010 14:16:51	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.003795	Re-Slope:	1.000000
A1 (Gain):	0.029117	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.018440		
Predicted MQL:	0.061467		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00380	.001	1
CalibStd-500	500.00	500.00	.000	.000	14.562	.069	1

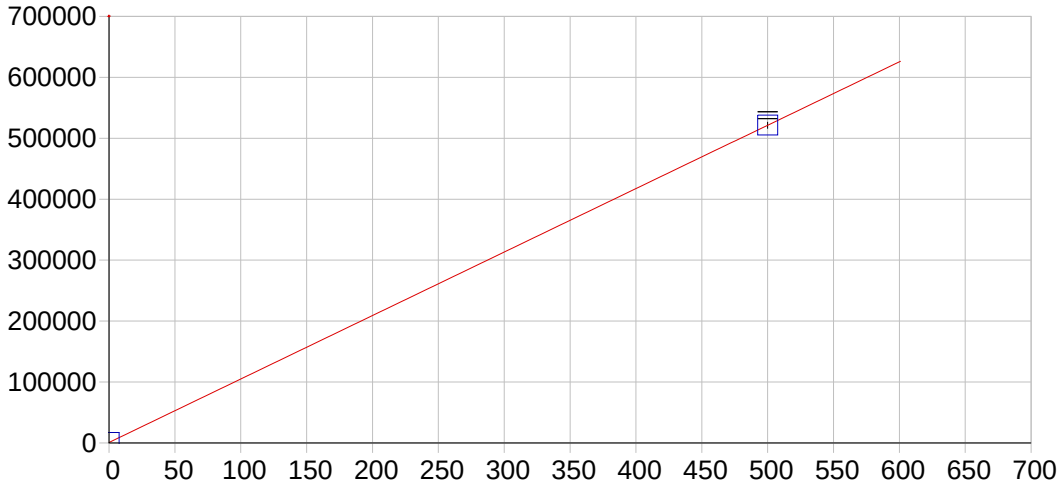


Al 396.152 { 85}

Date of Fit:	12/03/2010 14:16:51	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.402525	Re-Slope:	1.000000
A1 (Gain):	3.075898	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	1.143649		
Predicted MQL:	3.812165		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.40252	2.90	1
CalibStd-500	500.00	500.00	.000	.000	1538.4	19.8	1

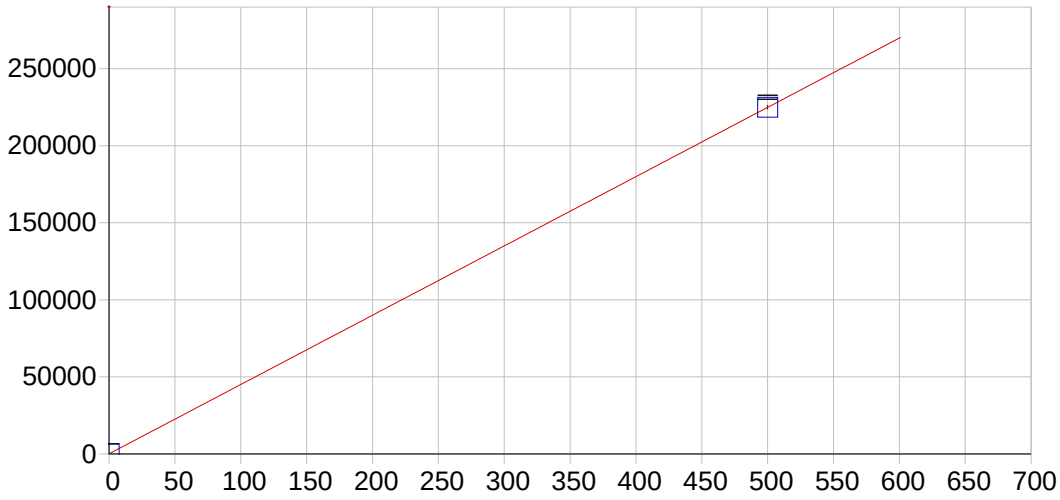


Mg 279.553 {121}

Date of Fit:	12/03/2010 14:16:51	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	720.172317	Re-Slope:	1.000000
A1 (Gain):	1041.447755	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.001050		
Predicted MQL:	0.003500		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	720.17	504.	1
CalibStd-500	500.00	500.00	.000	.000	521440.	5640.	1

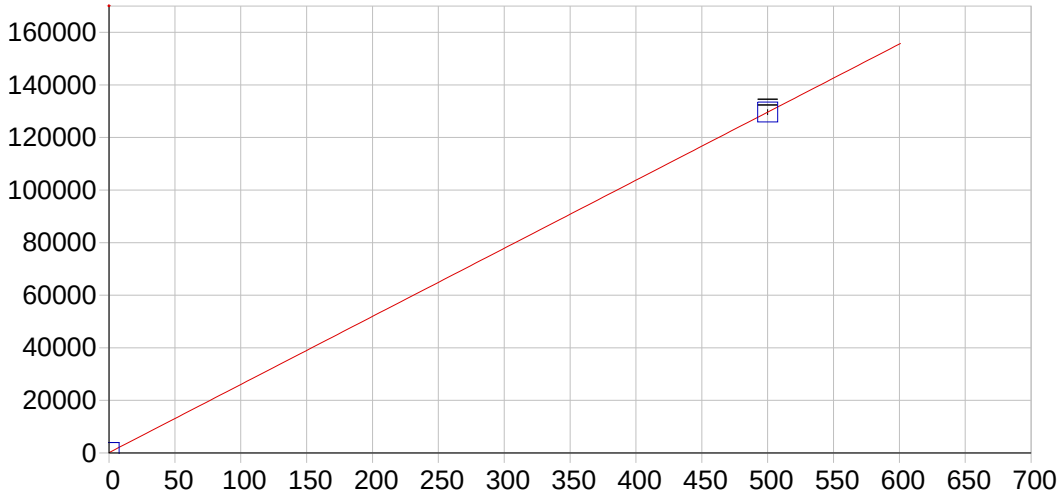


Mg 285.213 {118}

Date of Fit:	12/03/2010 14:16:51	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	83.835331	Re-Slope:	1.000000
A1 (Gain):	449.708874	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.002957		
Predicted MQL:	0.009856		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	83.835	59.1	1
CalibStd-500	500.00	500.00	.000	.000	224940.	1290.	1

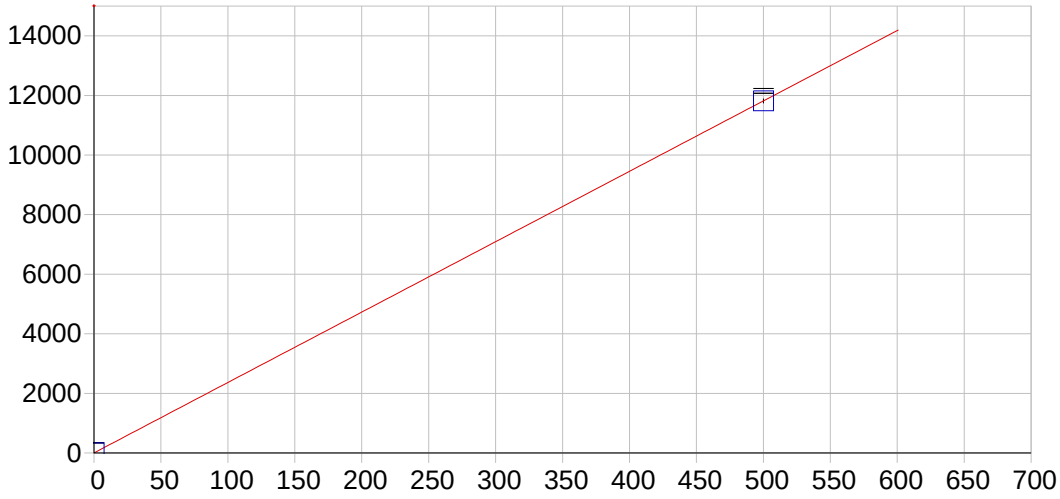


Ca 317.933 {106}

Date of Fit:	12/03/2010 14:16:51	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	141.660541	Re-Slope:	1.000000
A1 (Gain):	259.017647	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.006269		
Predicted MQL:	0.020897		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	141.66	78.2	1
CalibStd-500	500.00	500.00	.000	.000	129650.	1070.	1



Fe 234.349 {144}

Date of Fit:	12/03/2010 14:16:51	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	2.444124	Re-Slope:	1.000000
A1 (Gain):	23.627306	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.040022		
Predicted MQL:	0.133406		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	2.4441	.334	1
CalibStd-500	500.00	500.00	.000	.000	11816.	79.2	1

Sample Name: Blank Acquired: 12/03/2010 13:54:28 Type: Cal
Method: Sodium and Potassium 1(v116) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**14.9**	**.255**	**23.0**	**.403**	**83.8**	**142.**	**2.44**
Stddev	9.4	1.43	5.3	2.90	59.1	78.	.33
%RSD	62.8	559.	22.8	719.	70.5	55.2	13.7

Int. Std.	Y_3203
Units	Cts/S
Avg	**2955.6**
Stddev	30.6
%RSD	1.0344

Sample Name: CalibStd-0.5 Acquired: 12/03/2010 13:57:06 Type: Cal
Method: Sodium and Potassium 1(v116) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895
Units	Cts/S	Cts/S
Avg	**130.**	**333.**
Stddev	2.	2.
%RSD	1.32	.664

Sample Name: CalibStd-1.0 Acquired: 12/03/2010 13:59:33 Type: Cal
Method: Sodium and Potassium 1(v116) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895
Units	Cts/S	Cts/S
Avg	**254.**	**673.**
Stddev	6.	14.
%RSD	2.37	2.02

Sample Name: CalibStd-5.0 Acquired: 12/03/2010 14:02:00 Type: Cal
Method: Sodium and Potassium 1(v116) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	Na5895
Units	Cts/S
Avg	**3260.**
Stddev	33.
%RSD	1.00

Sample Name: CalibStd-10.0 Acquired: 12/03/2010 14:04:26 Type: Cal
Method: Sodium and Potassium 1(v116) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302	Na5895
Units	Cts/S	Cts/S	Cts/S
Avg	**2250.**	**13.6**	**6260.**
Stddev	15.	1.6	28.
%RSD	.668	11.6	.452

Sample Name: CalibStd-50 Acquired: 12/03/2010 14:06:53 Type: Cal
Method: Sodium and Potassium 1(v116) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	Na3302	Na5895
Units	Cts/S	Cts/S
Avg	**68.8**	**31600.**
Stddev	1.5	119.
%RSD	2.17	.376

Sample Name: CalibStd-100 Acquired: 12/03/2010 14:09:21 Type: Cal
Method: Sodium and Potassium 1(v116) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302
Units	Cts/S	Cts/S
Avg	**19900.**	**116.**
Stddev	106.	4.
%RSD	.532	3.09

Sample Name: CalibStd-200 Acquired: 12/03/2010 14:11:48 Type: Cal
Method: Sodium and Potassium 1(v116) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302
Units	Cts/S	Cts/S
Avg	**43300.**	**254.**
Stddev	186.	2.
%RSD	.430	.645

Sample Name: CalibStd-500 Acquired: 12/03/2010 14:14:13 Type: Cal
Method: Sodium and Potassium 1(v116) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	Al3961	Mg2852	Ca3179	Fe2343
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1540.**	**225000.**	**130000.**	**11800.**
Stddev	20.	1290.	1070.	79.
%RSD	1.28	.573	.827	.670

Int. Std.	Y_3203
Units	Cts/S
Avg	**2516.3**
Stddev	19.6
%RSD	.77865

Sample Name: icv Acquired: 12/03/2010 14:16:55 Type: QC
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**98.0**	**92.2**	**-.007**	**-.120**	**-.358**	**.071**
Stddev	.5	2.2	.736	.003	.008	.020
%RSD	.516	2.36	10700.	2.23	2.21	27.9
#1	97.8	91.1	.149	-.117	-.362	.070
#2	97.6	90.9	-.809	-.122	-.349	.051
#3	98.6	94.8	.639	-.122	-.363	.091
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	**2818.0**
Stddev	28.4
%RSD	1.0066
#1	2790.5
#2	2816.4
#3	2847.1

Sample Name: icb Acquired: 12/03/2010 14:19:21 Type: QC
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**.136**	**.032**	**-.586**	**-.131**	**-.383**	**-.027**
Stddev	.010	.004	.958	.002	.003	.034
%RSD	7.33	14.1	164.	1.30	.655	124.
#1	.127	.036	-1.59	-.130	-.386	-.052
#2	.134	.032	-.488	-.133	-.382	-.042
#3	.146	.027	.320	-.130	-.381	.011
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	**2935.8**
Stddev	1.0
%RSD	.03311
#1	2936.4
#2	2934.7
#3	2936.4

Sample Name: mrl Acquired: 12/03/2010 14:21:48 Type: QC
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**5.11**	**1.08**	**.263**	**.508**	**.155**	**.277**
Stddev	.04	.01	.597	.002	.003	.023
%RSD	.838	.462	227.	.483	1.73	8.15
#1	5.08	1.09	-.188	.511	.152	.300
#2	5.09	1.08	.035	.506	.157	.277
#3	5.16	1.08	.940	.507	.155	.254
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	**2932.8**
Stddev	16.1
%RSD	.54755
#1	2914.3
#2	2941.0
#3	2943.2

Sample Name: icsa Acquired: 12/03/2010 14:24:15 Type: QC
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**.002**	**-.003**	**502.**	**492.**	**502.**	**487.**
Stddev	.017	.006	6.	1.	3.	1.
%RSD	912.	178.	1.25	.209	.604	.231
#1	-.010	-.008	507.	492.	500.	486.
#2	.014	.001	498.	493.	504.	488.
Check ?	Chk Pass	Chk Pass	None	None	None	None
High Limit						
Low Limit						

Int. Std.	Y_3203
Units	Cts/S
Avg	**2545.1**
Stddev	2.7
%RSD	.10767
#1	2543.2
#2	2547.1

Sample Name: icsab Acquired: 12/03/2010 14:26:57 Type: QC
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**112.**	**104.**	**471.**	**479.**	**487.**	**476.**
Stddev	.	1.	2.	5.	5.	5.
%RSD	.189	1.05	.402	1.09	.925	.995
#1	112.	103.	469.	473.	482.	470.
#2	112.	105.	470.	483.	489.	477.
#3	113.	103.	473.	481.	490.	480.
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	**2523.0**
Stddev	18.1
%RSD	.71747
#1	2506.7
#2	2519.9
#3	2542.5

Sample Name: ccv Acquired: 12/03/2010 16:22:15 Type: QC
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**97.4**	**91.0**	**-.195**	**-.035**	**-.101**	**.292**
Stddev	.5	2.6	.501	.002	.007	.061
%RSD	.506	2.85	257.	5.35	7.20	21.0
#1	97.5	91.1	-.638	-.033	-.102	.358
#2	97.8	88.4	-.293	-.037	-.107	.281
#3	96.8	93.6	.348	-.036	-.093	.237
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	**2881.2**
Stddev	6.9
%RSD	.23785
#1	2881.5
#2	2887.9
#3	2874.2

Sample Name: ccb Acquired: 12/03/2010 16:24:42 Type: QC
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**.150**	**.025**	**-.883**	**-.158**	**-.361**	**-.018**
Stddev	.012	.008	.419	.002	.007	.026
%RSD	8.05	32.5	47.4	1.49	1.90	147.
#1	.139	.026	-.468	-.157	-.361	-.048
#2	.163	.016	-.877	-.157	-.368	.002
#3	.148	.032	-1.31	-.161	-.354	-.008
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	**2985.5**
Stddev	6.7
%RSD	.22566
#1	2982.4
#2	2980.9
#3	2993.3

Sample Name: lcss35623 Acquired: 12/03/2010 16:47:16 Type: Unk
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**89.0**	**81.4**	**1.23**	**98.6**	**160.**	**1.78**
Stddev	.3	2.0	1.46	.4	1.	.06
%RSD	.296	2.52	118.	.449	.812	3.52
#1	88.9	81.4	.826	98.1	159.	1.85
#2	89.3	83.4	2.85	98.9	160.	1.77
#3	88.8	79.3	.019	98.8	161.	1.73

Int. Std.	Y_3203
Units	Cts/S
Avg	**2658.1**
Stddev	18.7
%RSD	.70415
#1	2636.5
#2	2670.1
#3	2667.6

Sample Name: mbs35623 Acquired: 12/03/2010 16:49:41 Type: Unk
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**.165**	**-.023**	**-.438**	**-.175**	**-.406**	**-.026**
Stddev	.008	.003	.147	.001	.003	.041
%RSD	4.89	10.9	33.5	.357	.796	157.
#1	.162	-.021	-.564	-.175	-.402	-.064
#2	.158	-.022	-.472	-.175	-.408	.018
#3	.174	-.026	-.277	-.176	-.408	-.032

Int. Std.	Y_3203
Units	Cts/S
Avg	**2888.5**
Stddev	13.1
%RSD	.45298
#1	2880.3
#2	2881.6
#3	2903.6

Sample Name: ccv Acquired: 12/03/2010 16:52:11 Type: QC
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**97.5**	**92.1**	**-.618**	**-.034**	**-.105**	**.274**
Stddev	.2	.7	1.09	.002	.002	.022
%RSD	.222	.746	176.	4.58	1.86	8.19
#1	97.6	91.9	.551	-.033	-.106	.275
#2	97.6	91.4	-.799	-.036	-.102	.295
#3	97.2	92.8	-1.61	-.033	-.106	.250
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	**2856.0**
Stddev	6.5
%RSD	.22708
#1	2854.4
#2	2850.4
#3	2863.1

Sample Name: ccb Acquired: 12/03/2010 16:54:38 Type: QC
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**.151**	**.025**	**-.588**	**-.161**	**-.370**	**-.015**
Stddev	.020	.002	1.25	.004	.006	.002
%RSD	13.6	8.78	213.	2.57	1.51	15.6
#1	.131	.026	.364	-.164	-.375	-.015
#2	.172	.025	-2.00	-.161	-.364	-.013
#3	.149	.022	-.123	-.156	-.372	-.018
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	**2975.4**
Stddev	15.9
%RSD	.53380
#1	2979.5
#2	2988.8
#3	2957.8

Sample Name: 869552 Acquired: 12/03/2010 16:57:05 Type: Unk
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**35.8**	**1.68**	**378.**	**107.**	**152.**	**759.**
Stddev	.2	.03	2.	1.	1.	7.
%RSD	.458	1.66	.605	.585	.834	.906
#1	35.7	1.66	380.	107.	150.	752.
#2	36.0	1.71	376.	108.	152.	761.
#3	35.8	1.66	377.	107.	153.	766.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2687.5**
Stddev	23.7
%RSD	.88237
#1	2660.4
#2	2704.5
#3	2697.5

Sample Name: I869552 Acquired: 12/03/2010 16:59:39 Type: Unk
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**7.87**	**.364**	**83.2**	**26.7**	**38.6**	**211.**
Stddev	.15	.008	2.2	.3	.7	3.
%RSD	1.91	2.24	2.67	1.21	1.89	1.51
#1	7.99	.368	85.6	27.0	39.4	214.
#2	7.92	.369	82.7	26.7	38.3	210.
#3	7.70	.355	81.2	26.3	38.0	208.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2942.6**
Stddev	9.4
%RSD	.31795
#1	2935.7
#2	2938.8
#3	2953.2

Sample Name: dup869552 Acquired: 12/03/2010 17:02:04 Type: Unk
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**35.1**	**1.63**	**377.**	**107.**	**151.**	**751.**
Stddev	.1	.01	3.	.	1.	7.
%RSD	.289	.753	.825	.444	.969	.949
#1	35.1	1.63	376.	107.	150.	744.
#2	35.3	1.65	380.	107.	151.	751.
#3	35.1	1.63	374.	108.	153.	758.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2703.3**
Stddev	17.5
%RSD	.64750
#1	2683.8
#2	2708.4
#3	2717.7

Sample Name: mss869552 Acquired: 12/03/2010 17:04:37 Type: Unk
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**118.**	**82.2**	**564.**	**193.**	**298.**	**849.**
Stddev	1.	1.3	5.	2.	4.	11.
%RSD	.508	1.63	.898	.822	1.49	1.25
#1	118.	82.5	559.	191.	293.	838.
#2	118.	80.7	563.	193.	298.	849.
#3	119.	83.3	569.	195.	302.	859.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2594.7**
Stddev	29.0
%RSD	1.1181
#1	2563.4
#2	2600.0
#3	2620.7

Sample Name: msds869552 Acquired: 12/03/2010 17:07:09 Type: Unk
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**117.**	**84.0**	**548.**	**198.**	**301.**	**850.**
Stddev	.	1.1	5.	1.	5.	10.
%RSD	.239	1.31	.926	.645	1.50	1.14
#1	117.	85.0	542.	196.	296.	841.
#2	117.	82.8	551.	198.	301.	850.
#3	118.	84.2	551.	199.	305.	860.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2608.9**
Stddev	19.8
%RSD	.75743
#1	2587.6
#2	2612.5
#3	2626.7

Sample Name: pdss869552 Acquired: 12/03/2010 17:09:41 Type: Unk
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**194.**	**84.2**	**365.**	**104.**	**149.**	**749.**
Stddev	1.	1.0	.	1.	2.	7.
%RSD	.394	1.14	.122	.709	1.07	.933
#1	193.	84.4	365.	104.	147.	742.
#2	195.	85.0	366.	105.	149.	749.
#3	193.	83.1	365.	105.	150.	755.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2713.2**
Stddev	16.9
%RSD	.62321
#1	2695.5
#2	2715.0
#3	2729.2

Sample Name: 869553 Acquired: 12/03/2010 17:12:14 Type: Unk
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**24.7**	**1.72**	**343.**	**106.**	**255.**	**694.**
Stddev	.1	.00	2.	.	3.	6.
%RSD	.386	.261	.514	.375	1.04	.831
#1	24.7	1.71	341.	105.	252.	688.
#2	24.8	1.72	344.	106.	256.	696.
#3	24.6	1.72	344.	106.	257.	699.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2692.3**
Stddev	8.5
%RSD	.31548
#1	2685.5
#2	2689.7
#3	2701.8

Sample Name: 869554 Acquired: 12/03/2010 17:14:44 Type: Unk
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**36.6**	**1.95**	**397.**	**121.**	**217.**	**782.**
Stddev	.2	.01	7.	1.	3.	7.
%RSD	.520	.465	1.74	.535	1.19	.880
#1	36.5	1.94	389.	121.	214.	774.
#2	36.5	1.96	403.	120.	219.	786.
#3	36.8	1.95	398.	122.	218.	785.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2691.8**
Stddev	17.0
%RSD	.63162
#1	2676.7
#2	2688.6
#3	2710.2

Sample Name: 869555 Acquired: 12/03/2010 17:17:17 Type: Unk
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**33.9**	**2.40**	**325.**	**109.**	**296.**	**723.**
Stddev	.3	.02	2.	1.	3.	5.
%RSD	.810	.953	.617	.737	1.12	.707
#1	33.7	2.39	322.	108.	294.	718.
#2	34.2	2.43	326.	109.	295.	722.
#3	33.9	2.39	326.	109.	300.	728.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2661.1**
Stddev	9.0
%RSD	.33734
#1	2652.4
#2	2660.7
#3	2670.3

Sample Name: 869556 Acquired: 12/03/2010 17:19:51 Type: Unk
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**36.4**	**2.51**	**343.**	**160.**	**418.**	**743.**
Stddev	.3	.02	2.	1.	5.	7.
%RSD	.758	.734	.681	.394	1.11	.986
#1	36.5	2.52	341.	160.	413.	735.
#2	36.1	2.49	345.	160.	420.	745.
#3	36.6	2.53	344.	161.	422.	750.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2605.1**
Stddev	14.5
%RSD	.55839
#1	2595.0
#2	2598.6
#3	2621.8

Sample Name: ccv Acquired: 12/03/2010 17:22:24 Type: QC
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**97.4**	**92.9**	**.390**	**-.032**	**-.103**	**.296**
Stddev	.3	.4	.627	.005	.007	.027
%RSD	.340	.383	161.	14.1	7.19	9.22
#1	97.6	92.5	.732	-.032	-.111	.327
#2	97.0	93.0	.770	-.037	-.098	.275
#3	97.5	93.1	-.334	-.028	-.100	.286
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	**2822.0**
Stddev	16.1
%RSD	.56997
#1	2824.5
#2	2836.6
#3	2804.8

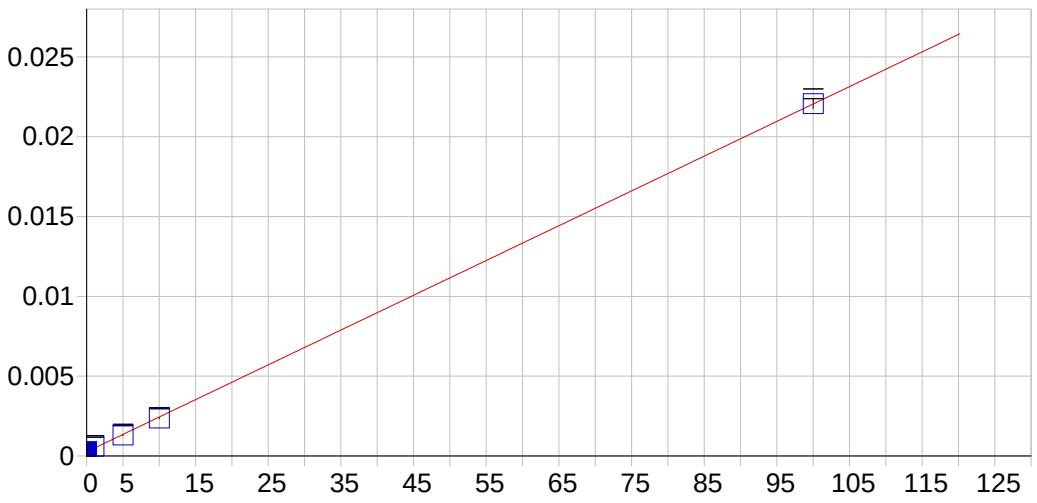
Sample Name: ccb Acquired: 12/03/2010 17:24:51 Type: QC
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**.179**	**.035**	**.136**	**-.159**	**-.371**	**.017**
Stddev	.027	.003	.874	.002	.005	.027
%RSD	14.9	8.07	641.	1.57	1.38	154.
#1	.148	.033	-.406	-.158	-.369	.046
#2	.195	.033	-.330	-.161	-.377	.011
#3	.193	.038	1.15	-.156	-.368	-.006
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	**2937.4**
Stddev	9.0
%RSD	.30750
#1	2927.8
#2	2938.5
#3	2945.8

Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)	Correlation	Std Error of Est	Predicted MDL	Predicted MQL
Ag 328.068 {103}	12/03/2010 13:24:08	12/03/2010 13:24:08	Linear	None	0.000262	0.000218	0.000000	1.000000	0.999969	0.000086	0.782889	2.609630
Ag 338.289 {100}	12/03/2010 12:40:18	12/03/2010 12:40:18	Linear	None	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	-1.000000	-1.000000
Al 167.079 {502}	12/03/2010 13:29:13	12/03/2010 13:29:13	Linear	None	0.000003	0.000002	0.000000	1.000000	0.999968	0.000009	2.185326	7.284421
Al 309.271 {109}	12/03/2010 13:46:44	12/03/2010 13:46:44	Linear	1/Conc	0.001036	0.000005	0.000000	1.000000	0.999458	0.000072	23.295930	77.653099
Al 396.152 { 85}	12/03/2010 13:58:49	12/03/2010 13:58:49	Full Fit	1/Conc	0.000191	0.000009	0.000000	1.020000	0.999904	0.000342	17.981099	59.936998
As 189.042 {479}	12/03/2010 13:34:58	12/03/2010 13:34:58	Linear	1/Conc	0.000001	0.000000	0.000000	1.000000	0.999916	0.000000	15.294384	50.981279
As 193.759 {474}	12/03/2010 13:29:13	12/03/2010 13:29:13	Linear	None	-0.000002	0.000000	0.000000	1.000000	0.999952	0.000002	15.455569	51.518562
Ba 455.403 { 74}	12/03/2010 13:24:08	12/03/2010 13:24:08	Linear	1/Conc	-0.000476	0.000490	0.000000	1.000000	0.999844	0.000004	0.515510	1.718368
Ba 493.409 { 68}	12/03/2010 13:34:58	12/03/2010 13:34:58	Linear	1/Conc	0.033137	0.000625	0.000000	1.000000	0.999983	0.000661	0.790795	2.635984
Be 234.861 {144}	12/03/2010 13:29:13	12/03/2010 13:29:13	Linear	None	-0.000100	0.000067	0.000000	1.000000	0.999997	0.000124	0.475079	1.583595
Be 313.042 {108}	12/03/2010 13:29:13	12/03/2010 13:29:13	Linear	1/Conc	0.000050	0.001028	0.000000	1.000000	0.999970	0.000005	0.108934	0.363113
Ca 317.933 {106}	12/03/2010 13:58:49	12/03/2010 13:58:49	Full Fit	1/Conc	0.003803	0.000015	-0.000000	0.990000	0.999965	0.000220	3.694505	12.315015
Ca 393.366 { 86}	12/06/2010 13:55:09	12/03/2010 13:29:13	Linear	None	0.011790	0.002655	0.000000	1.000000	1.000000	0.000000	0.054122	0.180407
Ca 396.847 { 85}	12/06/2010 13:58:31	12/03/2010 13:34:58	Linear	1/Conc	0.004308	0.000814	0.000000	1.000000	0.995910	0.003479	0.124558	0.415194
Cd 226.502 {449}	12/03/2010 13:29:13	12/03/2010 13:29:13	Linear	1/Conc	0.000006	0.000100	0.000000	1.000000	0.999812	0.000001	0.170774	0.569248
Cd 228.802 {447}	12/03/2010 13:29:13	12/03/2010 13:29:13	Linear	None	0.000031	0.000059	0.000000	1.000000	1.000000	0.000028	0.246135	0.820448
Co 228.616 {447}	12/03/2010 13:29:13	12/03/2010 13:29:13	Linear	1/Conc	-0.000003	0.000039	0.000000	1.000000	0.999959	0.000000	0.316067	1.053556
Co 238.892 {141}	12/03/2010 13:34:58	12/03/2010 13:34:58	Linear	1/Conc	0.000006	0.000006	0.000000	1.000000	0.999901	0.000014	5.341604	17.805347
Cr 267.716 {126}	12/03/2010 13:29:13	12/03/2010 13:29:13	Linear	1/Conc	-0.000011	0.000105	0.000000	1.000000	0.999532	0.000004	0.761934	2.539780
Cr 283.563 {119}	12/03/2010 13:40:52	12/03/2010 13:40:52	Linear	1/Conc	0.000069	0.000021	0.000000	1.000000	0.999991	0.000008	3.053421	10.178069
Cu 224.700 {450}	12/03/2010 13:34:58	12/03/2010 13:34:58	Linear	1/Conc	0.000086	0.000018	0.000000	1.000000	0.999892	0.000002	0.857844	2.859479
Cu 324.754 {104}	12/03/2010 13:40:52	12/03/2010 13:40:52	Linear	None	0.000943	0.000006	0.000000	1.000000	1.000000	0.000153	11.840714	39.469047
Cu 327.396 {103}	12/03/2010 13:29:13	12/03/2010 13:29:13	Linear	None	0.000881	0.000077	0.000000	1.000000	0.999927	0.000413	2.353007	7.843358
Fe 234.349 {144}	12/06/2010 14:05:25	12/03/2010 13:58:50	Full Fit	None	0.000059	0.000000	0.000000	1.030000	1.000000	0.000084	321.366440	1071.22146
Fe 239.562 {141}	12/06/2010 13:50:57	12/03/2010 13:34:58	Linear	None	0.000509	0.000003	0.000000	1.000000	0.999621	0.000712	6.935094	23.116979
Fe 259.940 {130}	12/06/2010 14:07:05	12/03/2010 13:29:14	Linear	1/Conc	0.000152	0.000021	0.000000	1.000000	0.996417	0.000011	2.352812	7.842707
Mg 279.079 {121}	12/06/2010 13:52:40	12/03/2010 13:58:50	Full Fit	None	0.000386	0.000001	0.000000	1.030000	1.000000	0.000256	61.906950	206.356499
Mg 279.553 {121}	12/03/2010 13:18:45	12/03/2010 13:18:45	Linear	None	0.000521	0.000354	0.000000	1.000000	0.999870	0.000151	0.085664	0.285547
Mg 280.270 {120}	12/06/2010 13:53:25	12/03/2010 13:34:58	Linear	1/Conc	0.000271	0.000216	0.000000	1.000000	0.996154	0.003446	0.184356	0.614520
Mn 257.610 {131}	12/03/2010 13:34:58	12/03/2010 13:34:58	Linear	1/Conc	0.000031	0.000116	0.000000	1.000000	0.999967	0.000004	0.544024	1.813415
Mn 259.373 {130}	12/03/2010 13:40:52	12/03/2010 13:40:52	Linear	1/Conc	-0.000007	0.000065	0.000000	1.000000	0.999918	0.000395	0.789048	2.630161
Mo 202.030 {467}	12/03/2010 13:29:14	12/03/2010 13:29:14	Linear	None	0.000004	0.000009	0.000000	1.000000	0.999999	0.000005	0.896640	2.988798
Mo 203.844 {465}	12/03/2010 13:29:14	12/03/2010 13:29:14	Linear	None	0.000008	0.000004	0.000000	1.000000	1.000000	0.000002	1.850950	6.169835
Mo 204.598 {465}	12/03/2010 13:34:58	12/03/2010 13:34:58	Linear	1/Conc	0.000003	0.000007	0.000000	1.000000	0.999949	0.000002	1.394092	4.646972
Ni 221.647 {452}	12/03/2010 13:34:58	12/03/2010 13:34:58	Linear	1/Conc	0.000004	0.000030	0.000000	1.000000	0.999895	0.000021	0.537311	1.791036
Ni 231.604 {445}	12/06/2010 14:31:10	12/03/2010 13:29:14	Linear	1/Conc	-0.000002	0.000028	0.000000	1.000000	0.999336	0.000002	0.494329	1.647764
Pb 216.999 {455}	12/03/2010 13:40:52	12/03/2010 13:40:52	Full Fit	None	0.000013	0.000001	0.000000	0.970000	1.000000	0.000000	10.791424	35.971414
Pb 220.353 {453}	12/03/2010 13:29:14	12/03/2010 13:29:14	Linear	1/Conc	-0.000010	0.000008	0.000000	1.000000	0.999804	0.000000	2.072715	6.909051
Sb 206.833 {463}	12/03/2010 13:34:58	12/03/2010 13:34:58	Linear	1/Conc	0.000002	0.000002	0.000000	1.000000	0.999963	0.000000	5.027101	16.757005
Sb 217.581 {455}	12/03/2010 13:34:59	12/03/2010 13:34:59	Linear	1/Conc	-0.000014	0.000001	0.000000	1.000000	0.998781	0.000000	22.755935	75.853116
Se 196.090 {472}	12/03/2010 13:34:59	12/03/2010 13:34:59	Linear	1/Conc	0.000008	0.000001	0.000000	1.000000	0.999175	0.000000	10.989014	36.630047
Se 206.279 {463}	12/03/2010 13:34:59	12/03/2010 13:34:59	Linear	None	0.000000	0.000000	0.000000	1.000000	0.999998	0.000003	54.697681	182.325602
Tl 190.856 {477}	12/03/2010 13:34:59	12/03/2010 13:34:59	Linear	1/Conc	-0.000006	0.000001	0.000000	1.000000	0.999550	0.000000	7.817368	26.057894
Tl 276.787 {122}	12/03/2010 13:34:59	12/03/2010 13:34:59	Linear	None	0.000022	0.000000	0.000000	1.000000	0.999986	0.000019	137.066887	456.889623

Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)	Correlation	Std Error of Est	Predicted MDL	Predicted MQL
V 290.882 {116}	12/03/2010 13:34:59	12/03/2010 13:34:59	Linear	1/Conc	0.001479	0.000132	0.000000	1.000000	0.999857	0.000406	0.817399	2.724663
V 292.402 {115}	12/03/2010 13:29:14	12/03/2010 13:29:14	Linear	None	-0.000027	0.000136	0.000000	1.000000	0.999999	0.000070	0.883468	2.944893
Zn 206.200 {463}	12/03/2010 13:40:52	12/03/2010 13:40:52	Full Fit	None	-0.000032	0.000024	-0.000000	0.970000	1.000000	0.000000	0.343458	1.144860
Zn 213.856 {458}	12/03/2010 13:29:14	12/03/2010 13:29:14	Linear	1/Conc	0.000116	0.000038	0.000000	1.000000	0.999957	0.000002	0.248361	0.827870
Y 360.073 { 94}*	12/03/2010 12:40:18	12/03/2010 12:40:18	Linear	None	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	-1.000000	-1.000000
B 249.773 {135}	12/03/2010 13:29:14	12/03/2010 13:29:14	Linear	None	0.000043	0.000007	0.000000	1.000000	0.999864	0.000072	6.303696	21.012320
Li 670.784 { 50}	12/03/2010 13:29:14	12/03/2010 13:29:14	Linear	None	0.001090	0.000179	0.000000	1.000000	0.999995	0.000244	2.062434	6.874779
Na 330.298 {102}	12/03/2010 13:46:44	12/03/2010 13:46:44	Linear	1/Conc	0.000011	0.000000	0.000000	1.000000	1.000000	0.000000	3383.86811	11279.5603
Si 251.611 {134}	12/03/2010 13:29:14	12/03/2010 13:29:14	Linear	None	0.000114	0.000000	0.000000	1.000000	1.000000	0.000000	575.029642	1916.76547
Sr 407.771 { 83}	12/03/2010 13:34:59	12/03/2010 13:34:59	Linear	1/Conc	-0.001611	0.001126	0.000000	1.000000	0.999644	0.000116	0.121208	0.404025
Ti 334.941 {101}	12/03/2010 13:29:14	12/03/2010 13:29:14	Linear	1/Conc	0.000091	0.000081	0.000000	1.000000	0.999912	0.000005	1.050606	3.502021

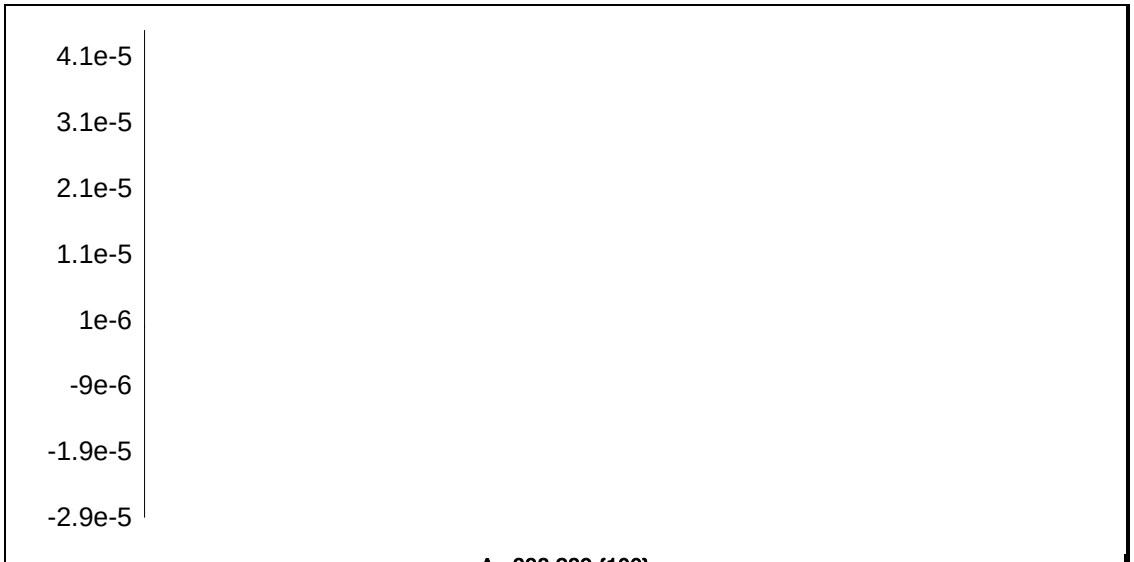


Ag 328.068 {103}

Date of Fit:	12/03/2010 13:24:08	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000262	Re-Slope:	1.000000
A1 (Gain):	0.000218	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999969	Status:	OK.
Std Error of Est:	0.000086		
Predicted MDL:	0.782889		
Predicted MQL:	2.609630		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.01178	-.012	.000	.00026	.000	1
CalibStd=100	100.00	100.04	.041	.041	.02206	.000	1
CalibStd=10	10.000	9.6377	-.362	-3.62	.00236	.000	1
CalibStd=1	1.0000	1.5368	.537	53.7	.00060	.000	1
CalibStd=5	5.0000	4.7962	-.204	-4.08	.00131	.000	1

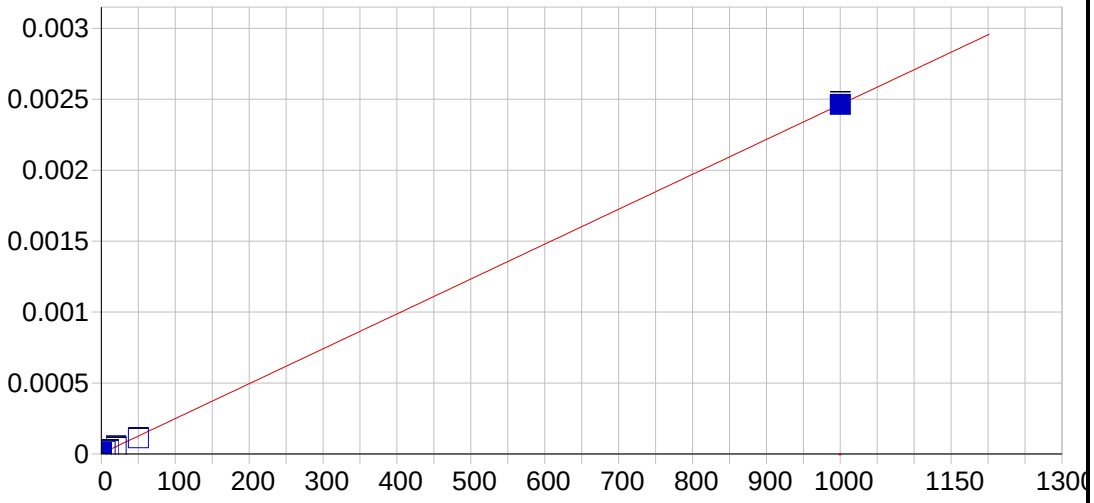


Ag 338.289 {100}

Date of Fit:	12/03/2010 12:40:18	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning Zero Gain
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00001	.000	1

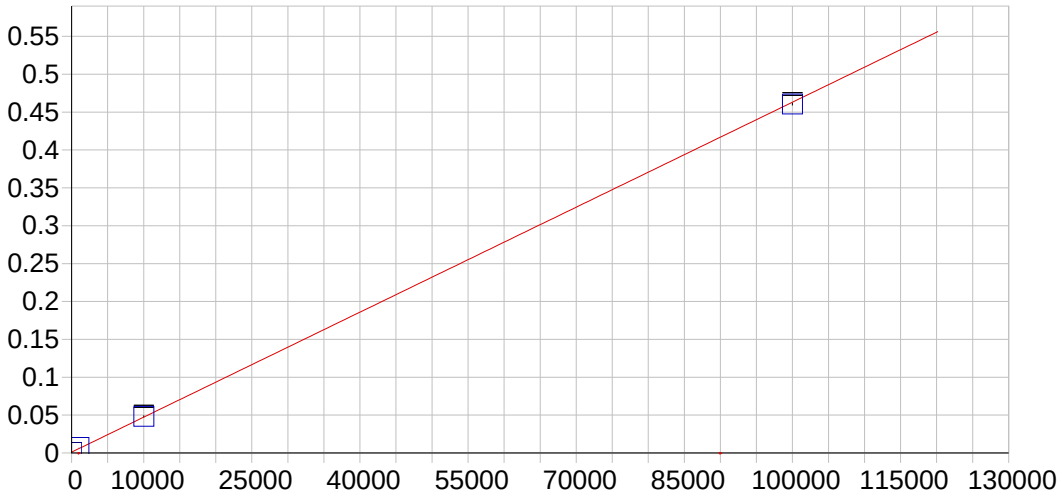


Al 167.079 {502}

Date of Fit:	12/03/2010 13:29:13	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000003	Re-Slope:	1.000000
A1 (Gain):	0.000002	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999968	Status:	OK.
Std Error of Est:	0.000009		
Predicted MDL:	2.185326		
Predicted MQL:	7.284421		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	3.0369	3.04	.000	.00001	.000	1
CalibStd=100	1000.0	1000.3	.286	.029	.00247	.000	1
CalibStd=20	20.000	18.978	-1.02	-5.11	.00005	.000	1
CalibStd=10	10.000	10.269	.269	2.69	.00003	.000	1
CalibStd=5	5.0000	8.1079	3.11	62.2	.00002	.000	1
CalibStd=50	50.000	44.322	-5.68	-11.4	.00011	.000	1

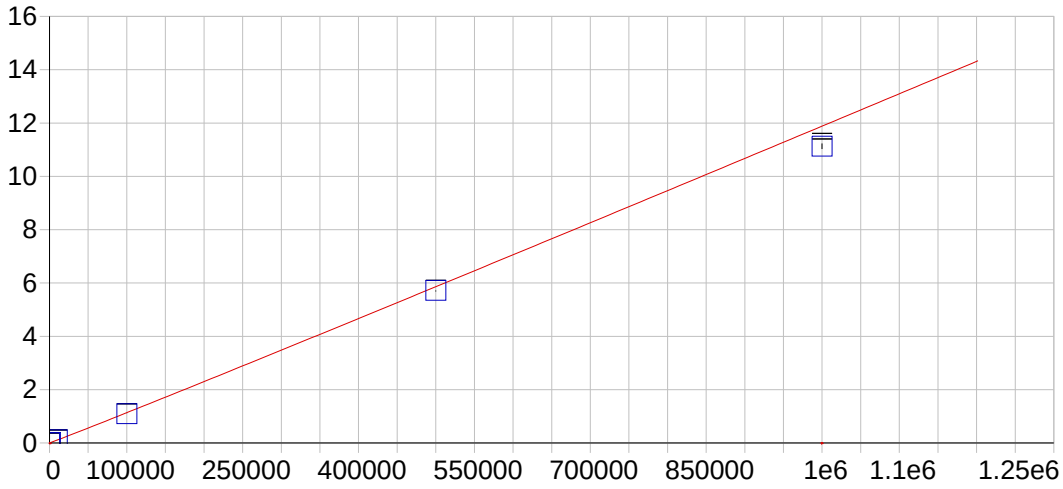


Al 309.271 {109}

Date of Fit:	12/03/2010 13:46:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001036	Re-Slope:	1.000000
A1 (Gain):	0.000005	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999458	Status:	OK.
Std Error of Est:	0.000072		
Predicted MDL:	23.295930		
Predicted MQL:	77.653099		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.35144	-.351	.000	.00103	.000	1
CalibStd=100	10000.	10212.	212.	2.12	.04822	.001	1
CalibStd=100	100000.	99453.	-547.	-.547	.46059	.002	1
CalibStd=100	1000.0	1335.8	336.	33.6	.00721	.000	1

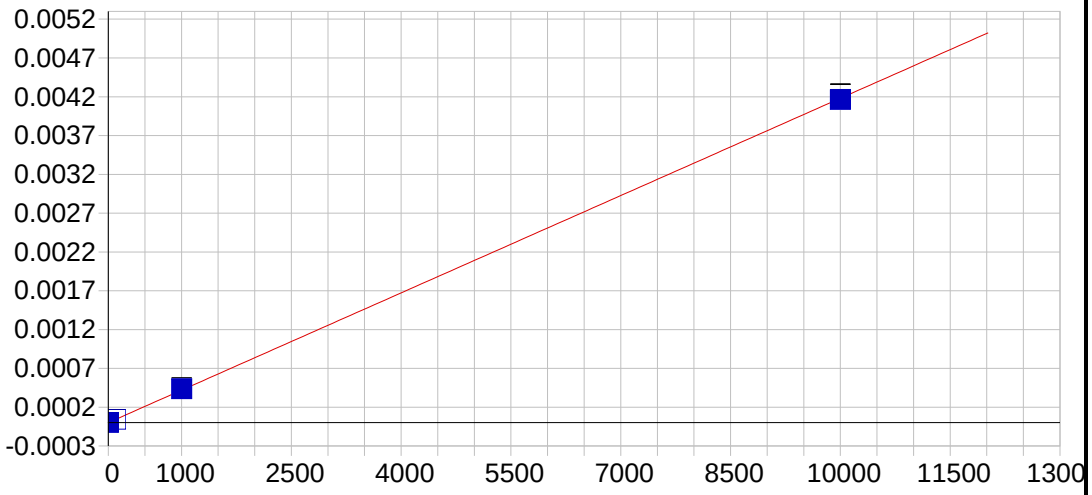


Al 396.152 { 85}

Date of Fit:	12/03/2010 13:58:49	Type of Fit:	Full Fit	Weighting:	1/Conc

A0 (Offset):	0.000191	Re-Slope:	1.000000
A1 (Gain):	0.000009	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.020000		
Correlation:	0.999904	Status:	OK.
Std Error of Est:	0.000342		
Predicted MDL:	17.981099		
Predicted MQL:	59.936998		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00019	.000	1
CalibStd=100	100000.	96538.	-3460.	-3.46	1.0950	.004	1
CalibStd-100	1000000.	937680.	-62300.	-6.23	11.129	.106	1
CalibStd=500	500000.	488420.	-11600.	-2.32	5.7217	.001	1
CalibStd=100	1000.0	1442.4	442.	44.2	.01523	.000	1
CalibStd=100	10000.	10415.	415.	4.15	.11316	.003	1

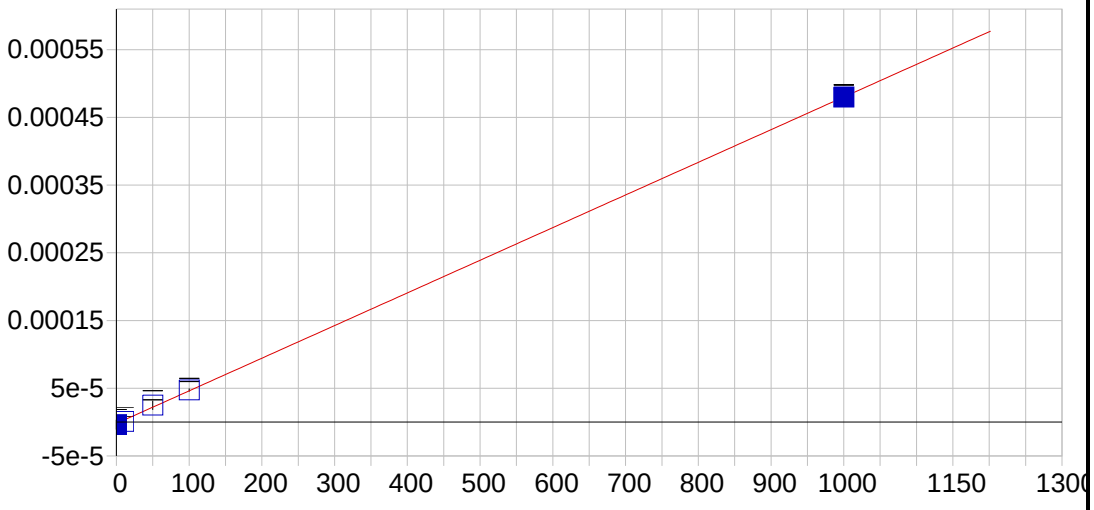


As 189.042 {479}

Date of Fit:	12/03/2010 13:34:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000001	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999916	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	15.294384		
Predicted MQL:	50.981279		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00434	-.004	.000	.00000	.000	1
CalibStd=100	1000.0	1041.0	41.0	4.10	.00044	.000	1
CalibStd=100	10000.	9958.4	-41.6	-.416	.00416	.000	1
CalibStd=100	100.00	100.66	.658	.658	.00004	.000	1

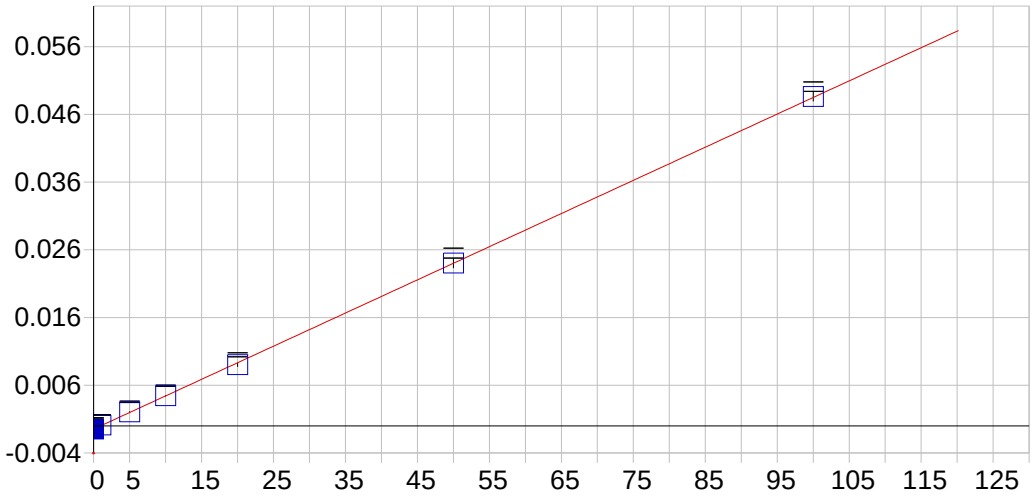


As 193.759 {474}

Date of Fit:	12/03/2010 13:29:13	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-0.000002	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999952	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	15.455569		
Predicted MQL:	51.518562		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-3.5778	-3.58	.000	.00000	.000	1
CalibStd=100	1000.0	999.50	-.498	-.050	.00048	.000	1
CalibStd=50	50.000	55.804	5.80	11.6	.00002	.000	1
CalibStd=10	10.000	5.7671	-4.23	-42.3	.00000	.000	1
CalibStd=100	100.00	102.50	2.50	2.50	.00005	.000	1

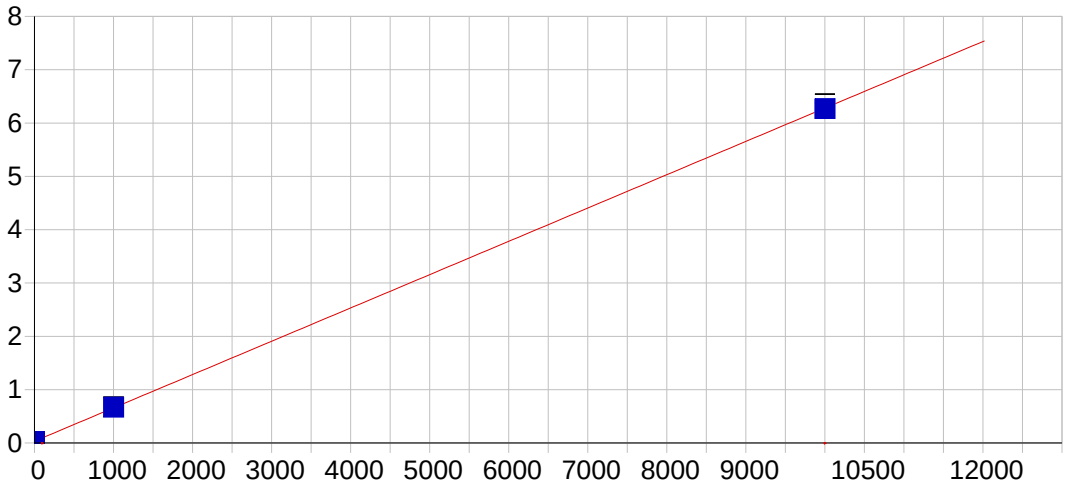


Ba 455.403 { 74}

Date of Fit:	12/03/2010 13:24:08	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000476	Re-Slope:	1.000000
A1 (Gain):	0.000490	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999844	Status:	OK.
Std Error of Est:	0.000004		
Predicted MDL:	0.515510		
Predicted MQL:	1.718368		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00019	.000	.000	-.00048	.000	1
CalibStd=50	50.000	50.020	.020	.040	.02402	.001	1
CalibStd=10	10.000	10.031	.031	.315	.00444	.000	1
CalibStd=20	20.000	19.371	-.629	-3.14	.00901	.000	1
CalibStd=100	100.00	100.23	.228	.228	.04861	.001	1
CalibStd=1	1.0000	1.1786	.179	17.9	.00010	.000	1
CalibStd=5	5.0000	5.1709	.171	3.42	.00206	.000	1

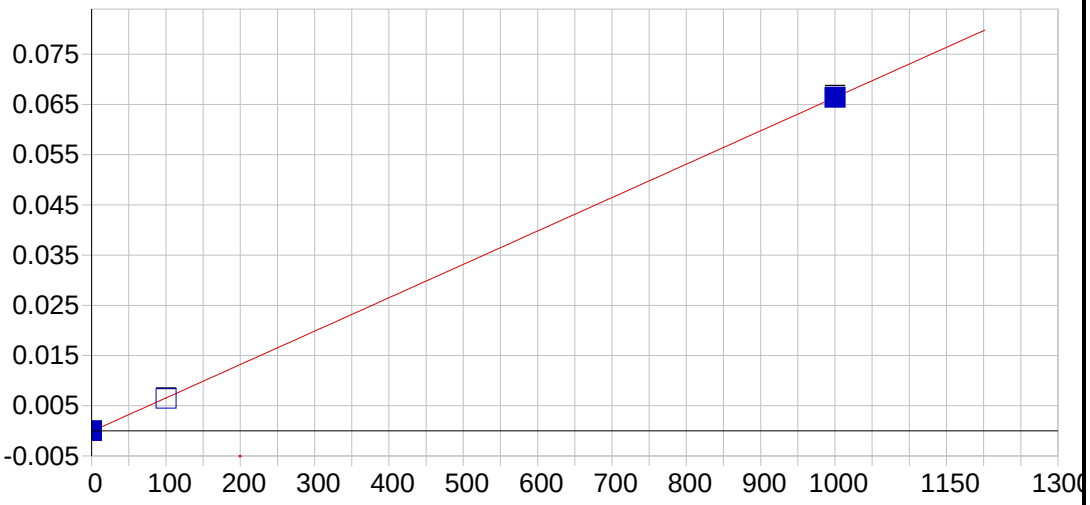


Ba 493.409 { 68}

Date of Fit:	12/03/2010 13:34:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.033137	Re-Slope:	1.000000
A1 (Gain):	0.000625	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999983	Status:	OK.
Std Error of Est:	0.000661		
Predicted MDL:	0.790795		
Predicted MQL:	2.635984		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.01657	-.017	.000	.03313	.000	1
CalibStd=100	1000.0	1018.4	18.4	1.84	.66932	.002	1
CalibStd=100	10000.	9981.6	-18.4	-.184	6.2684	.083	1

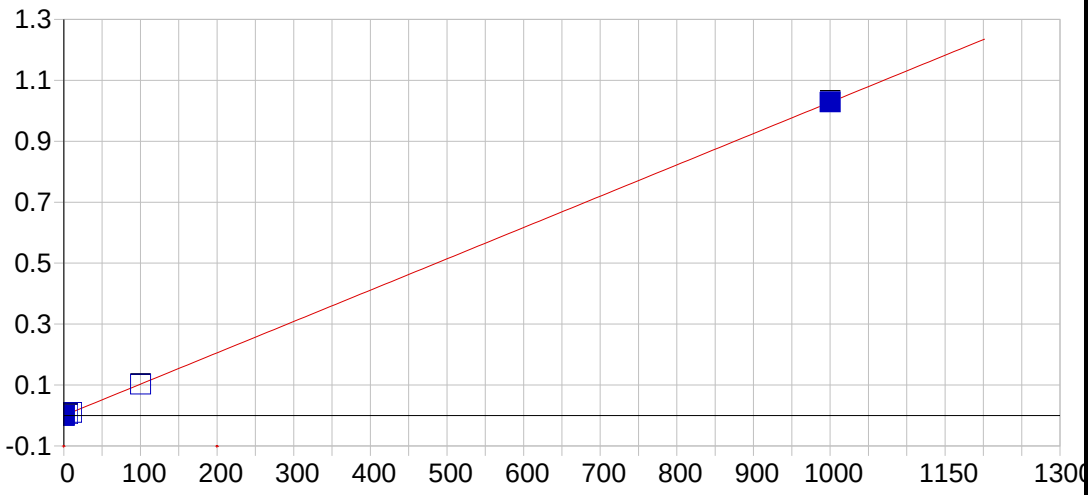


Be 234.861 {144}

Date of Fit:	12/03/2010 13:29:13	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-0.000100	Re-Slope:	1.000000
A1 (Gain):	0.000067	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999997	Status:	OK.
Std Error of Est:	0.000124		
Predicted MDL:	0.475079		
Predicted MQL:	1.583595		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	1.2448	1.24	.000	-.00002	.000	1
CalibStd=100	1000.0	1000.1	.138	.014	.06643	.000	1
CalibStd=100	100.00	98.617	-1.38	-1.38	.00646	.000	1

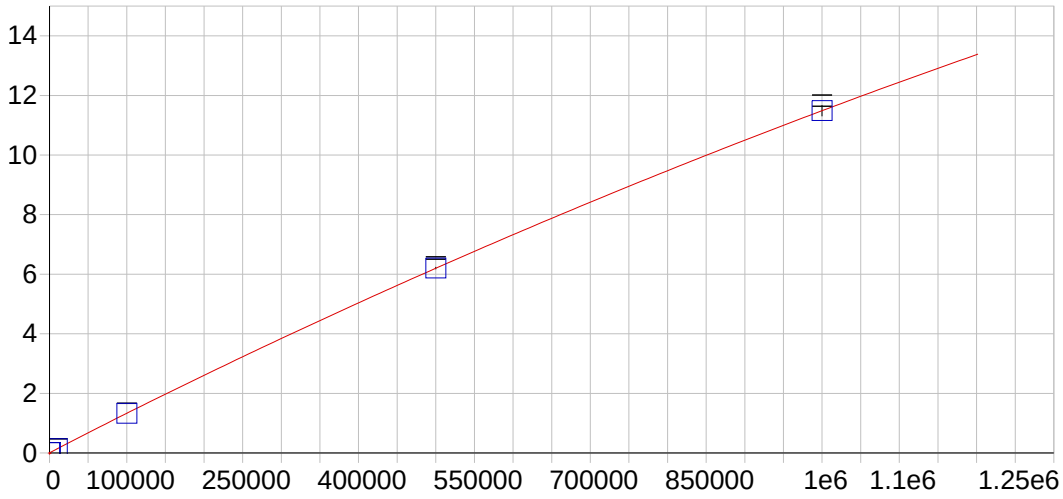


Be 313.042 {108}

Date of Fit:	12/03/2010 13:29:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000050	Re-Slope:	1.000000
A1 (Gain):	0.001028	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999970	Status:	OK.
Std Error of Est:	0.000005		
Predicted MDL:	0.108934		
Predicted MQL:	0.363113		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00005	.000	.000	.00005	.000	1
CalibStd=10	10.000	9.4825	-.518	-5.18	.00980	.000	1
CalibStd=100	100.00	99.606	-.394	-.394	.10245	.001	1
CalibStd=0.5	.50000	.63447	.134	26.9	.00070	.000	1
CalibStd=5	5.0000	4.9422	-.058	-1.16	.00513	.000	1
CalibStd=0.2	.25000	.24993	.000	-.028	.00031	.000	1
CalibStd=100	1000.0	1000.8	.835	.084	1.0289	.004	1

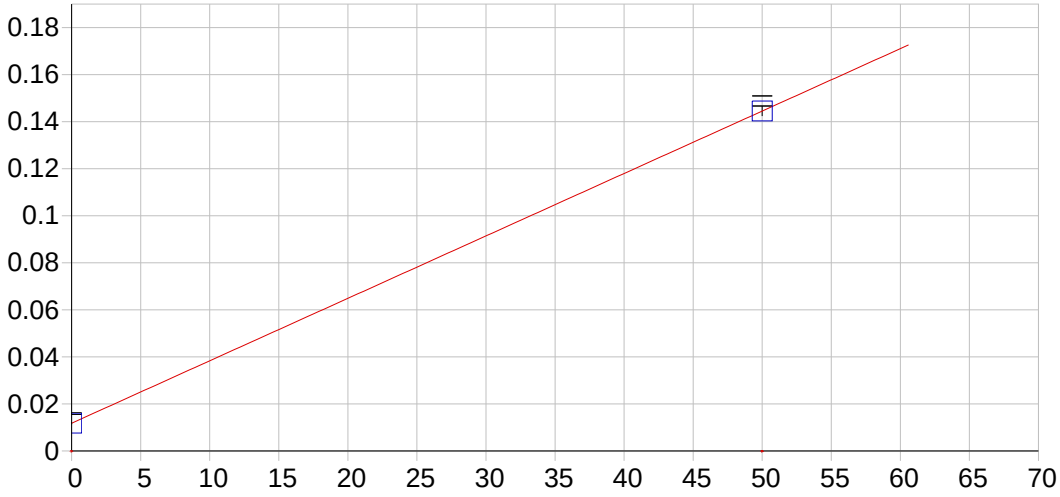


Ca 317.933 {106}

Date of Fit:	12/03/2010 13:58:49	Type of Fit:	Full Fit	Weighting:	1/Conc

A0 (Offset):	0.003803	Re-Slope:	1.000000
A1 (Gain):	0.000015	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	0.990000		
Correlation:	0.999965	Status:	OK.
Std Error of Est:	0.000220		
Predicted MDL:	3.694505		
Predicted MQL:	12.315015		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00380	.000	1
CalibStd=100	10000.	9817.8	-182.	-1.82	.13870	.004	1
CalibStd=100	100000.	99603.	-397.	-.397	1.3256	.005	1
CalibStd=500	500000.	500550.	546.	.109	6.2054	.041	1
CalibStd-100	1000000.	999730.	-267.	-.027	11.486	.187	1
CalibStd=100	1000.0	1280.0	280.	28.0	.02177	.000	1

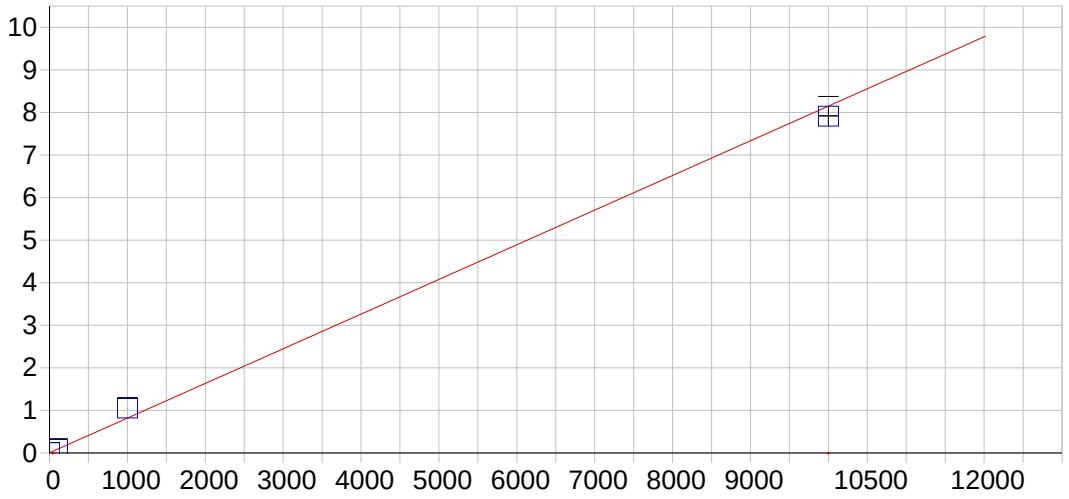


Ca 393.366 { 86}

Date of Fit:	12/06/2010 13:55:09	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.011790	Re-Slope:	1.000000
A1 (Gain):	0.002655	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.054122		
Predicted MQL:	0.180407		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.01179	.000	1
CalibStd=50	50.000	50.000	.000	.000	.14452	.002	1

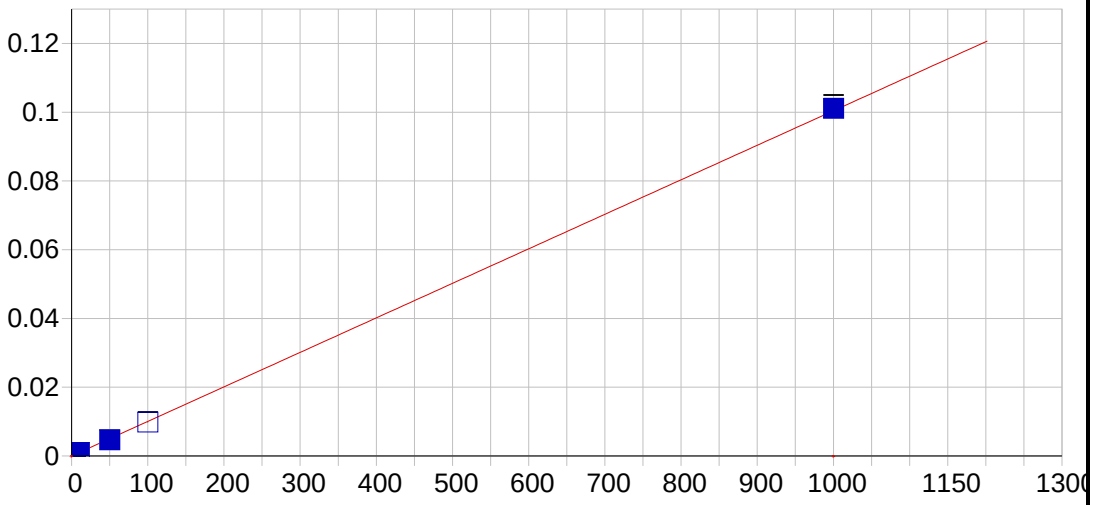


Ca 396.847 { 85}

Date of Fit:	12/06/2010 13:58:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004308	Re-Slope:	1.000000
A1 (Gain):	0.000814	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.995910	Status:	OK.
Std Error of Est:	0.003479		
Predicted MDL:	0.124558		
Predicted MQL:	0.415194		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.03263	-.033	.000	.00428	.000	1
CalibStd=100	10000.	9706.3	-294.	-2.94	7.9099	.227	1
CalibStd=100	100.00	106.89	6.89	6.89	.09136	.001	1
CalibStd=100	1000.0	1286.8	287.	28.7	1.0524	.003	1

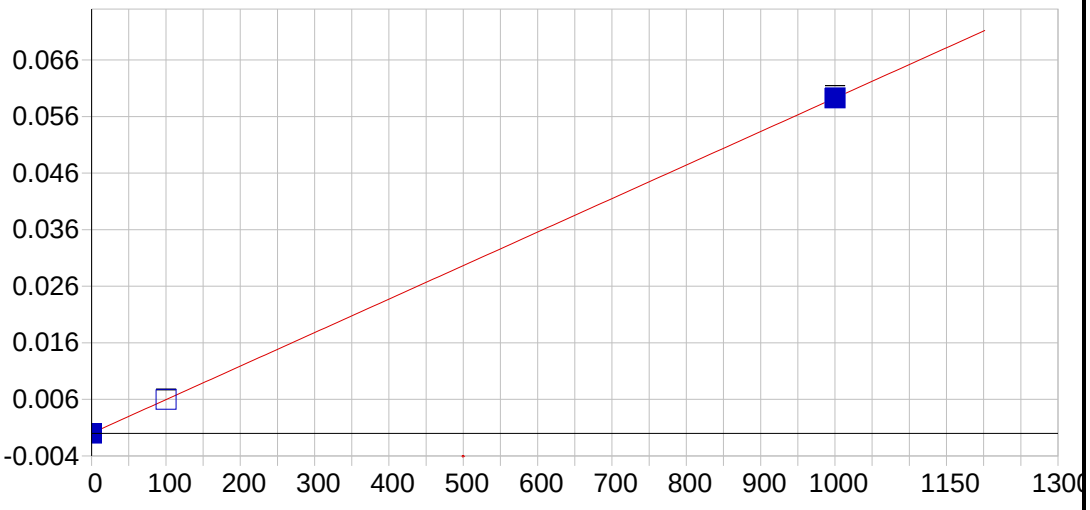


Cd 226.502 {449}

Date of Fit:	12/03/2010 13:29:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000006	Re-Slope:	1.000000
A1 (Gain):	0.000100	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999812	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	0.170774		
Predicted MQL:	0.569248		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00015	.000	.000	.00001	.000	1
CalibStd=50	50.000	46.349	-3.65	-7.30	.00466	.000	1
CalibStd=1	1.0000	.86191	-.138	-13.8	.00009	.000	1
CalibStd=0.5	.50000	.35253	-.147	-29.5	.00004	.000	1
CalibStd=5	5.0000	4.8804	-.120	-2.39	.00050	.000	1
CalibStd=0.2	.25000	.24999	.000	-.005	.00003	.000	1
CalibStd=100	100.00	97.807	-2.19	-2.19	.00983	.000	1
CalibStd=10	10.000	9.6280	-.372	-3.72	.00097	.000	1
CalibStd=100	1000.0	1006.6	6.62	.662	.10109	.001	1

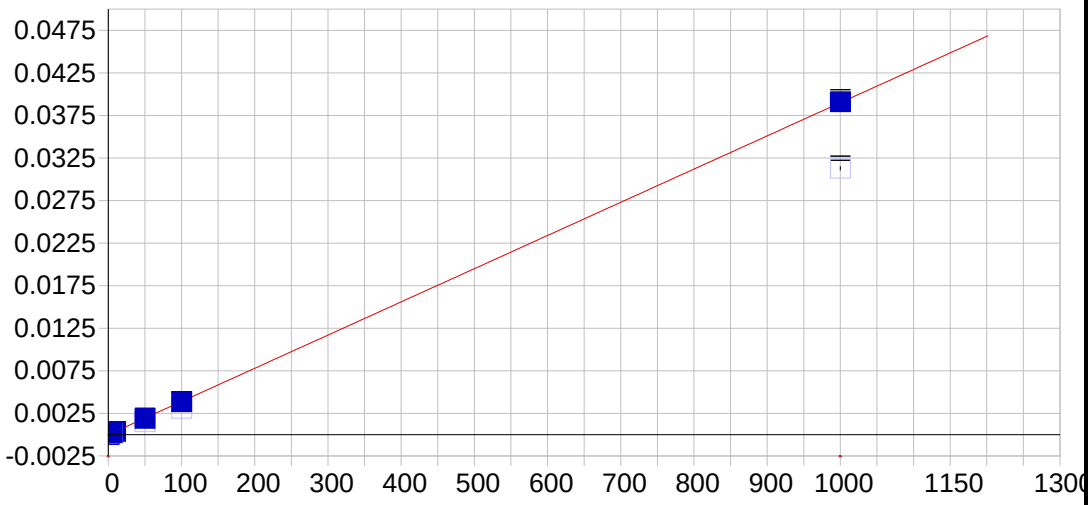


Cd 228.802 {447}

Date of Fit:	12/03/2010 13:29:13	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000031	Re-Slope:	1.000000
A1 (Gain):	0.000059	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000028		
Predicted MDL:	0.246135		
Predicted MQL:	0.820448		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.31870	-.319	.000	.00001	.000	1
CalibStd=100	1000.0	999.96	-.035	-.004	.05927	.000	1
CalibStd=100	100.00	100.35	.354	.354	.00598	.000	1

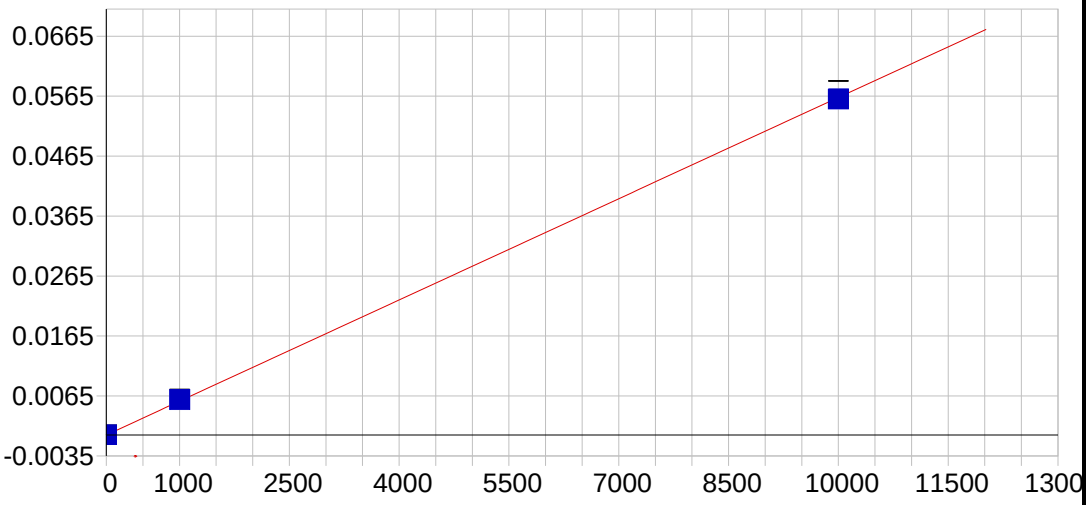


Co 228.616 {447}

Date of Fit:	12/03/2010 13:29:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000003	Re-Slope:	1.000000
A1 (Gain):	0.000039	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999959	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.316067		
Predicted MQL:	1.053556		

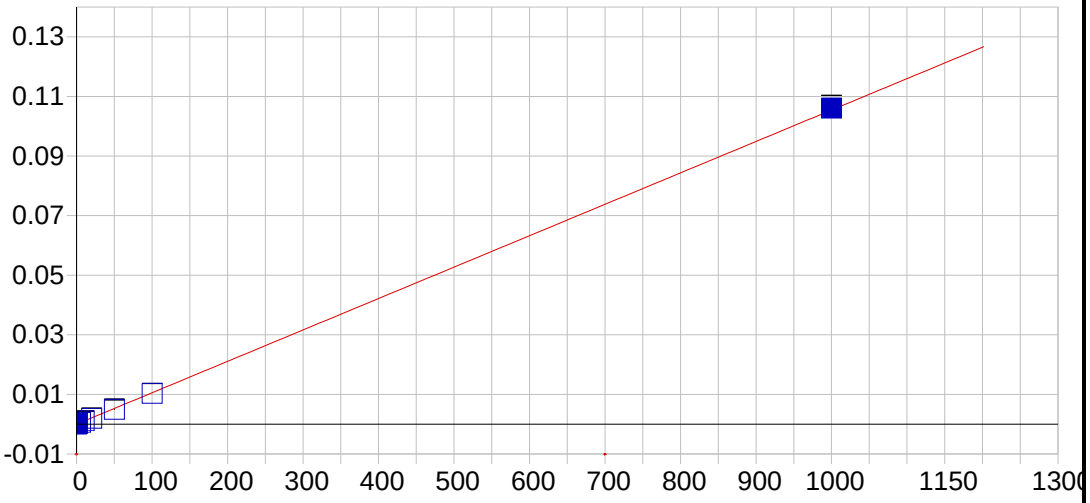
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00004	.000	.000	.00000	.000	1
CalibStd=50	50.000	48.678	-1.32	-2.64	.00151	.000	1
CalibStd=10	10.000	9.8795	-.120	-1.20	.00030	.000	1
CalibStd=5	5.0000	5.0604	.060	1.21	.00016	.000	1
CalibStd=1	1.0000	1.0719	.072	7.19	.00004	.000	1
CalibStd=100	100.00	98.863	-1.14	-1.14	.00307	.000	1
CalibStd=100	1000.0	1002.4	2.43	.243	.03130	.000	1



Co 238.892 {141}

Date of Fit:	12/03/2010 13:34:58	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000006		Re-Slope:	1.000000	
A1 (Gain):	0.000006		Y-int:	0.000000	
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.999901		Status:	OK.	
Std Error of Est:	0.000014				
Predicted MDL:	5.341604				
Predicted MQL:	17.805347				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.03992	-.040	.000	.00001	.000	1
CalibStd=100	1000.0	1044.4	44.4	4.44	.00588	.000	1
CalibStd=100	10000.	9955.6	-44.4	-.444	.05597	.001	1

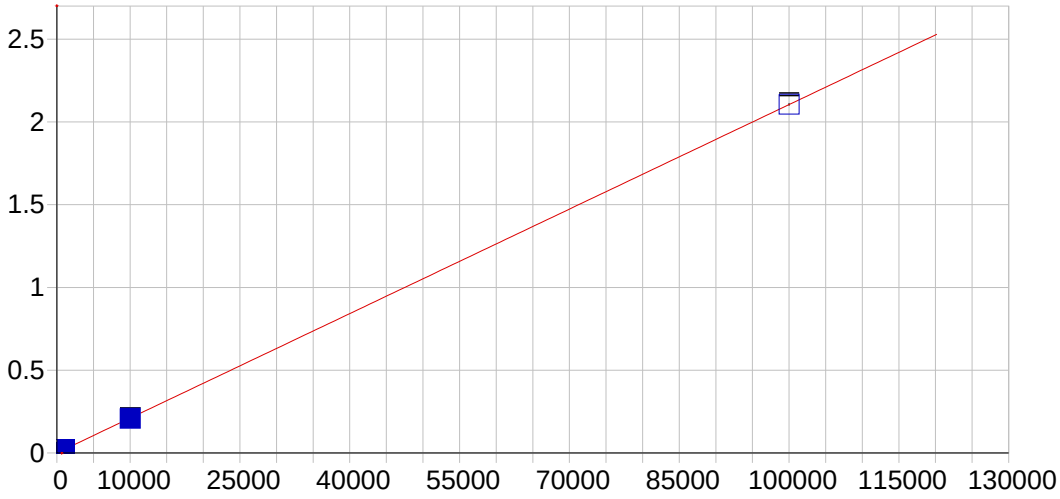


Cr 267.716 {126}

Date of Fit:	12/03/2010 13:29:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000011	Re-Slope:	1.000000
A1 (Gain):	0.000105	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999532	Status:	OK.
Std Error of Est:	0.000004		
Predicted MDL:	0.761934		
Predicted MQL:	2.539780		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00076	-.001	.000	-.00001	.000	1
CalibStd=10	10.000	10.064	.064	.636	.00105	.000	1
CalibStd=5	5.0000	5.6027	.603	12.1	.00058	.000	1
CalibStd=1	1.0000	1.7899	.790	79.0	.00018	.000	1
CalibStd=50	50.000	46.736	-3.26	-6.53	.00492	.000	1
CalibStd=100	1000.0	1005.7	5.72	.572	.10603	.001	1
CalibStd=20	20.000	18.531	-1.47	-7.35	.00194	.000	1
CalibStd=100	100.00	97.562	-2.44	-2.44	.01028	.000	1

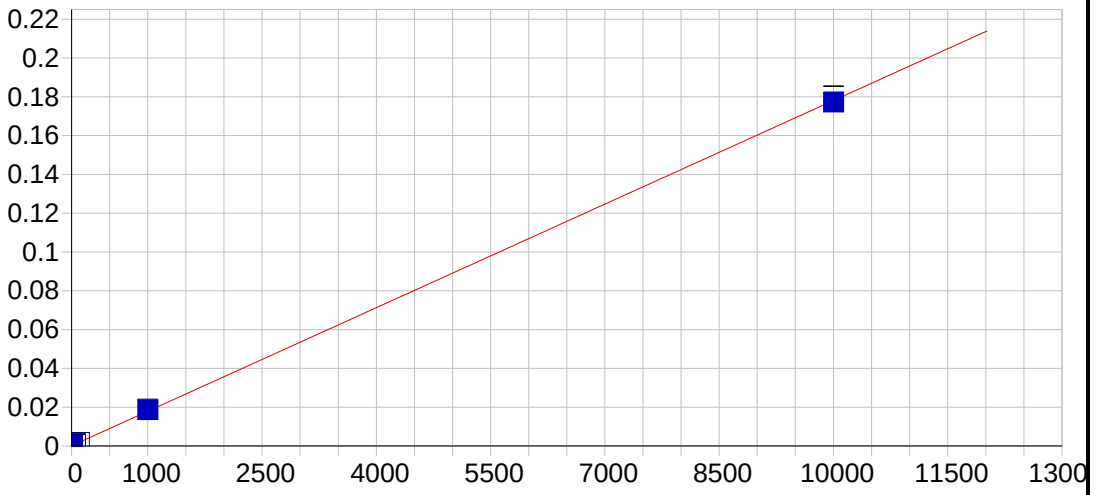


Cr 283.563 {119}

Date of Fit:	12/03/2010 13:40:52	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000069	Re-Slope:	1.000000
A1 (Gain):	0.000021	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999991	Status:	OK.
Std Error of Est:	0.000008		
Predicted MDL:	3.053421		
Predicted MQL:	10.178069		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00230	-.002	.000	.00007	.000	1
CalibStd=50	50.000	50.436	.436	.872	.00113	.000	1
CalibStd=100	100.00	101.57	1.57	1.57	.00221	.000	1
CalibStd=100	1000.0	1030.6	30.6	3.06	.02180	.000	1
CalibStd=100	10000.	9902.3	-97.7	-.977	.20884	.005	1
CalibStd-100	100000.	100070.	65.2	.065	2.1061	.008	1

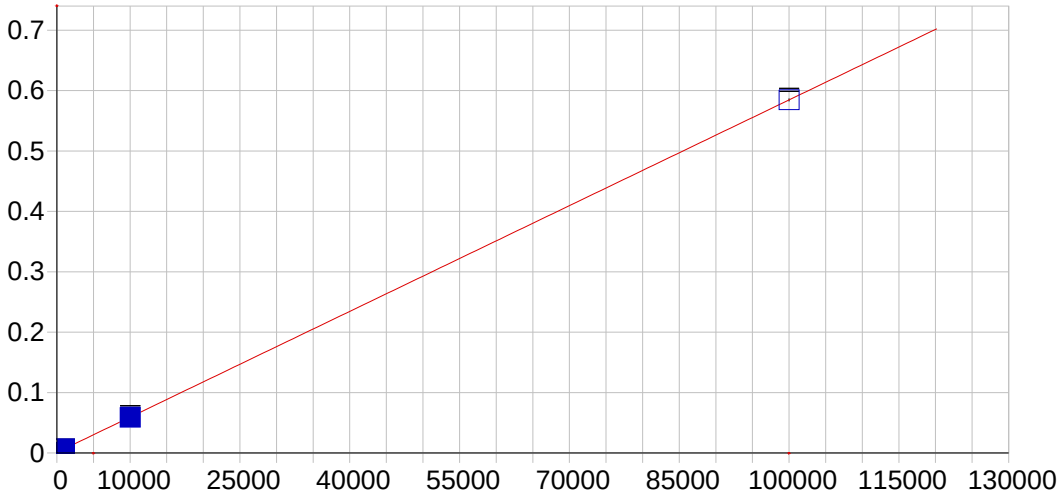


Cu 224.700 {450}

Date of Fit:	12/03/2010 13:34:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000086	Re-Slope:	1.000000
A1 (Gain):	0.000018	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999892	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	0.857844		
Predicted MQL:	2.859479		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00072	-.001	.000	.00009	.000	1
CalibStd=100	1000.0	1044.1	44.1	4.41	.01867	.000	1
CalibStd=50	50.000	49.725	-.275	-.550	.00097	.000	1
CalibStd=100	100.00	103.70	3.70	3.70	.00193	.000	1
CalibStd=5	5.0000	5.6288	.629	12.6	.00019	.000	1
CalibStd=10	10.000	9.4732	-.527	-5.27	.00025	.000	1
CalibStd=100	10000.	9952.4	-47.6	-.476	.17724	.003	1

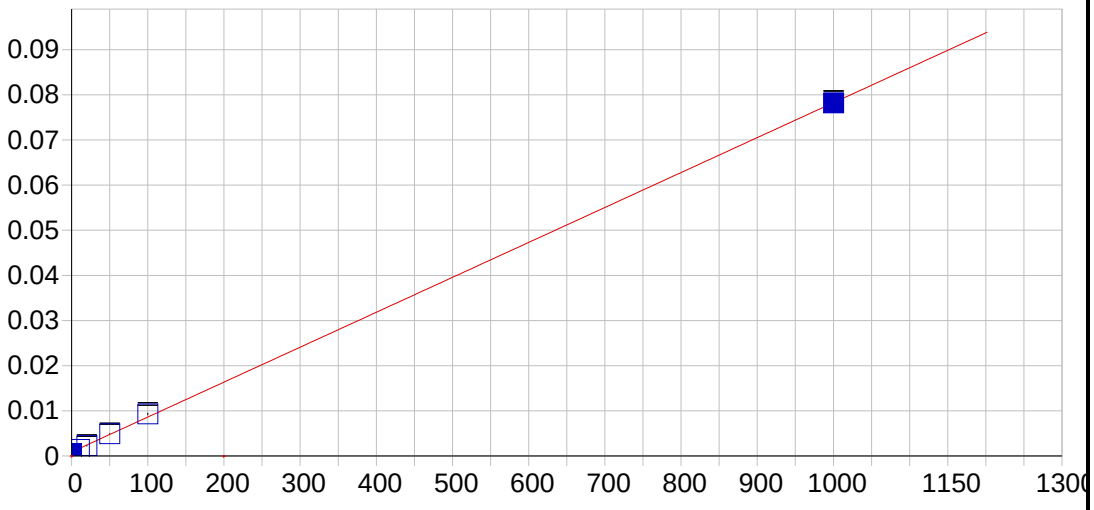


Cu 324.754 {104}

Date of Fit:	12/03/2010 13:40:52	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000943	Re-Slope:	1.000000
A1 (Gain):	0.000006	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000153		
Predicted MDL:	11.840714		
Predicted MQL:	39.469047		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	29.568	29.6	.000	.00112	.000	1
CalibStd=100	10000.	9983.0	-17.0	-.170	.05921	.002	1
CalibStd-100	100000.	100000.	1.85	.002	.58463	.002	1
CalibStd=100	1000.0	985.62	-14.4	-1.44	.00670	.000	1

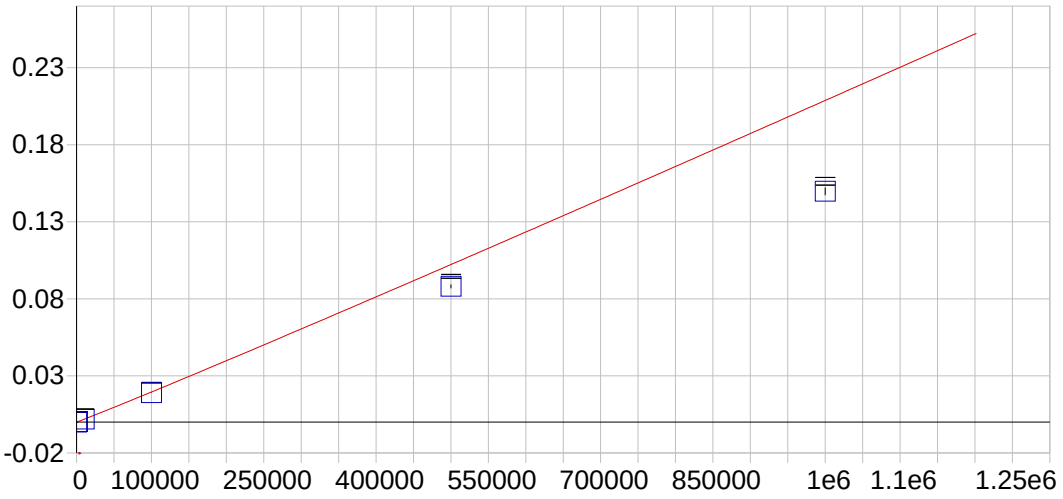


Cu 327.396 {103}

Date of Fit:	12/03/2010 13:29:13	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000881	Re-Slope:	1.000000
A1 (Gain):	0.000077	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999927	Status:	OK.
Std Error of Est:	0.000413		
Predicted MDL:	2.353007		
Predicted MQL:	7.843358		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-4.8142	-4.81	.000	.00051	.000	1
CalibStd=20	20.000	18.110	-1.89	-9.45	.00228	.000	1
CalibStd=50	50.000	52.004	2.00	4.01	.00490	.000	1
CalibStd=100	100.00	108.57	8.57	8.57	.00928	.000	1
CalibStd=10	10.000	7.0220	-2.98	-29.8	.00142	.000	1
CalibStd=100	1000.0	999.11	-.889	-.089	.07819	.000	1

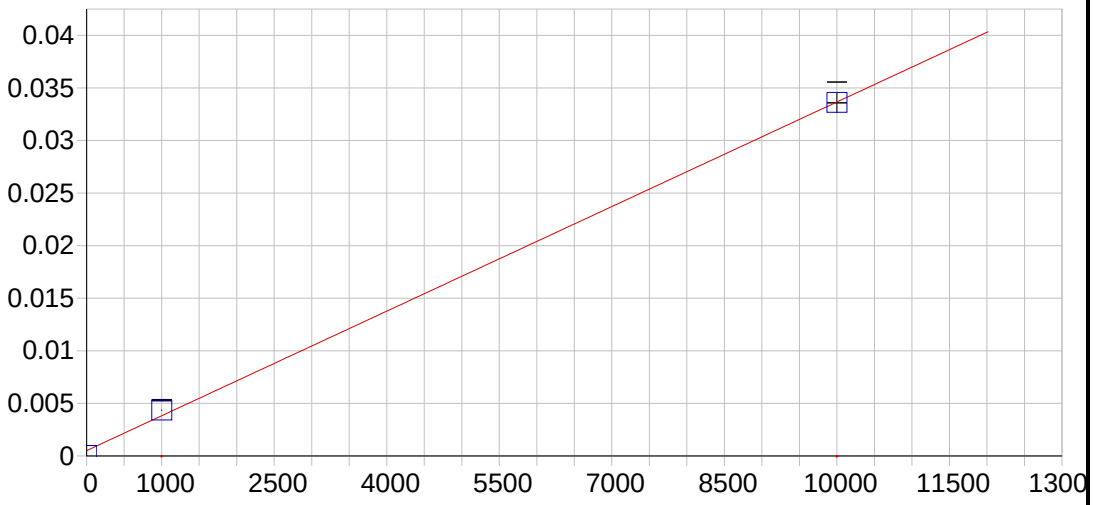


Fe 234.349 {144}

Date of Fit:	12/06/2010 14:05:25	Type of Fit:	Full Fit	Weighting:	None

A0 (Offset):	0.000059	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.030000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000084		
Predicted MDL:	321.366440		
Predicted MQL:	1071.221466		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00003	.000	1
CalibStd=100	10000.	10071.	70.7	.707	.00189	.000	1
CalibStd=500	500000.	432560.	-67400.	-13.5	.08809	.001	1
CalibStd=100	100000.	97786.	-2210.	-2.21	.01909	.000	1
CalibStd-100	1000000.	724380.	-276000.	-27.6	.14978	.002	1
CalibStd=100	1000.0	1118.9	119.	11.9	.00025	.000	1

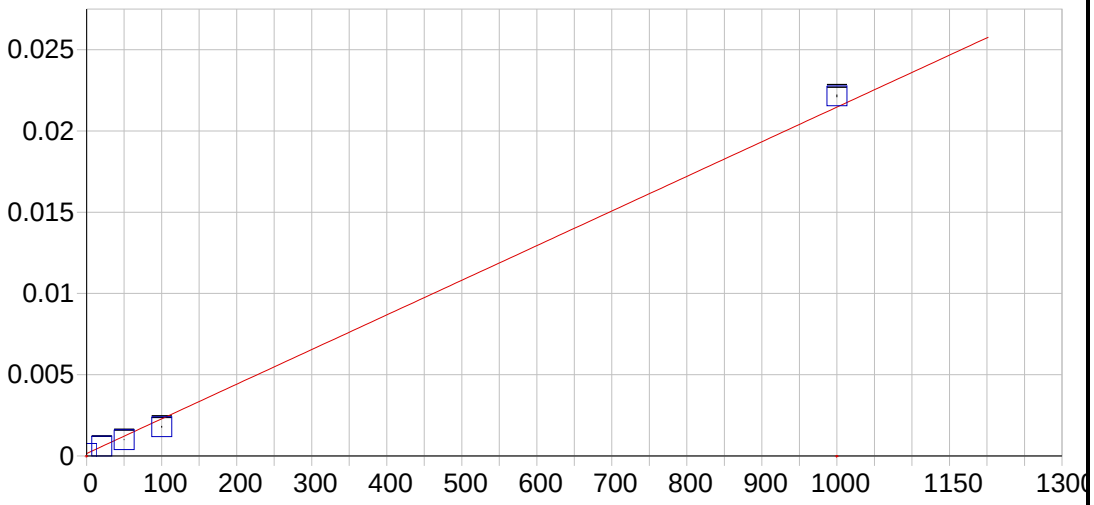


Fe 239.562 {141}

Date of Fit:	12/06/2010 13:50:57	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000509	Re-Slope:	1.000000
A1 (Gain):	0.000003	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999621	Status:	OK.
Std Error of Est:	0.000712		
Predicted MDL:	6.935094		
Predicted MQL:	23.116979		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-143.19	-143.	.000	.00003	.000	1
CalibStd=100	1000.0	1159.1	159.	15.9	.00435	.000	1
CalibStd=100	10000.	9984.1	-15.9	-.159	.03361	.001	1

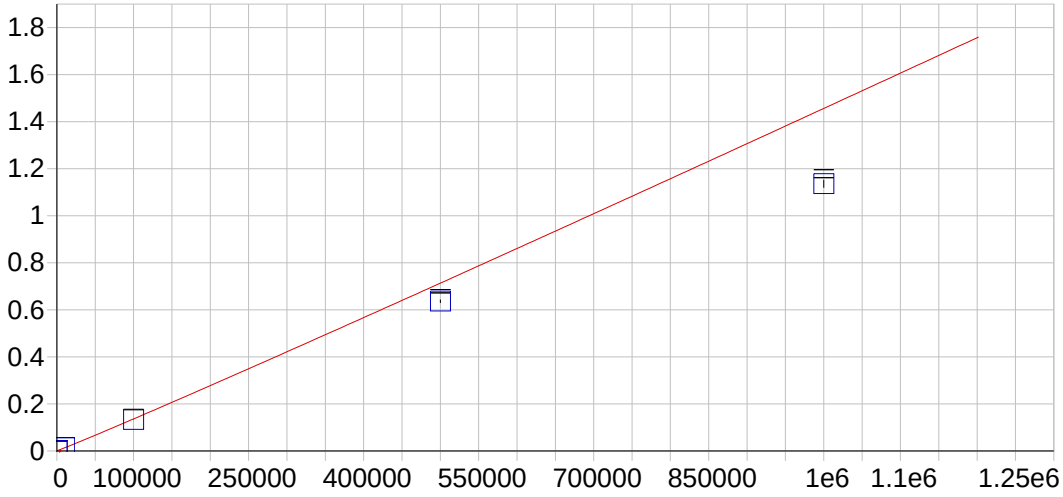


Fe 259.940 {130}

Date of Fit:	12/06/2010 14:07:05	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000152	Re-Slope:	1.000000
A1 (Gain):	0.000021	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.996417	Status:	OK.
Std Error of Est:	0.000011		
Predicted MDL:	2.352812		
Predicted MQL:	7.842707		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00723	.007	.000	.00015	.000	1
CalibStd=100	1000.0	1032.3	32.3	3.23	.02216	.000	1
CalibStd=50	50.000	39.709	-10.3	-20.6	.00100	.000	1
CalibStd=100	100.00	77.134	-22.9	-22.9	.00180	.000	1
CalibStd=20	20.000	20.811	.811	4.05	.00060	.000	1

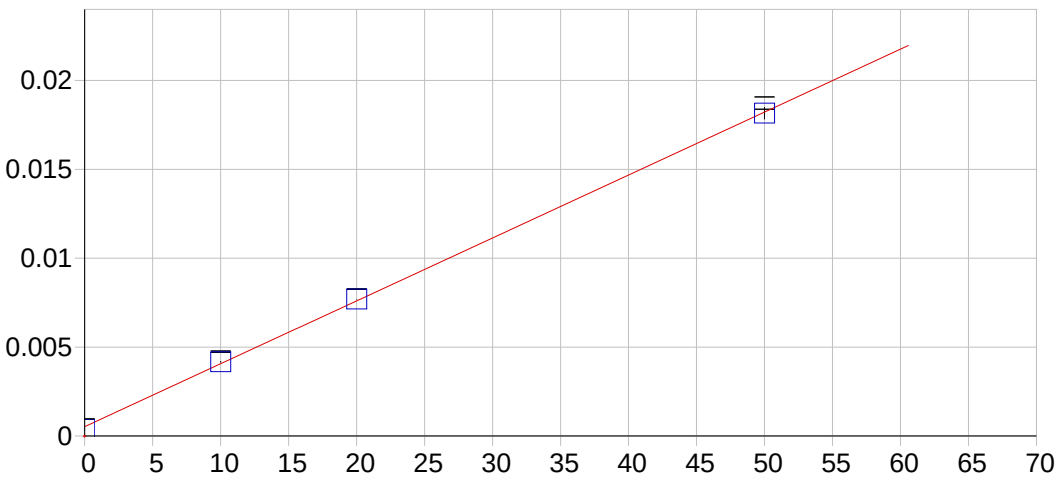


Mg 279.079 {121}

Date of Fit:	12/06/2010 13:52:40	Type of Fit:	Full Fit	Weighting:	None

A0 (Offset):	0.000386	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.030000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000256		
Predicted MDL:	61.906950		
Predicted MQL:	206.356499		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00008	.000	1
CalibStd=100	100000.	98064.	-1940.	-1.94	.13355	.001	1
CalibStd=500	500000.	447620.	-52400.	-10.5	.63655	.007	1
CalibStd=100	10000.	10078.	77.7	.777	.01317	.000	1
CalibStd-100	1000000.	785760.	-214000.	-21.4	1.1361	.017	1
CalibStd=100	1000.0	1101.0	101.	10.1	.00169	.000	1

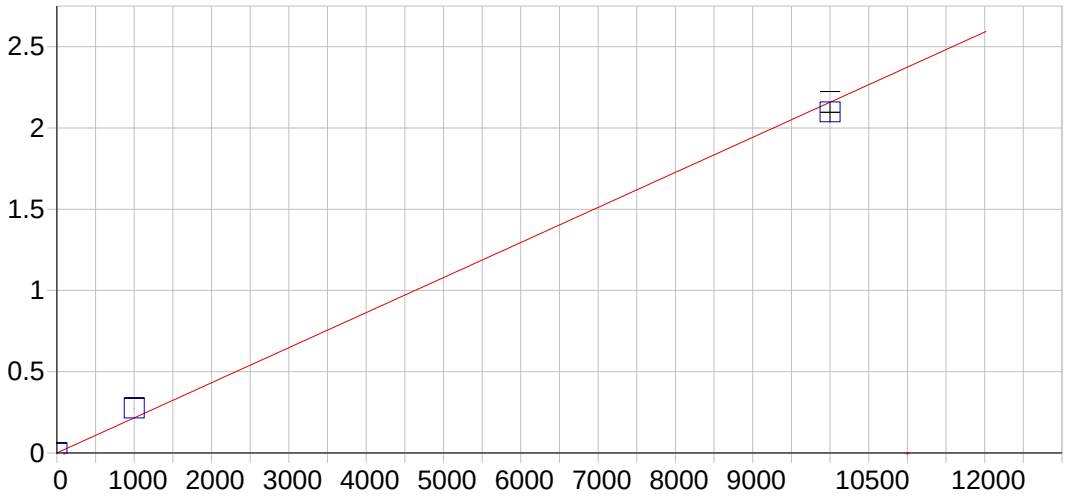


Mg 279.553 {121}

Date of Fit:	12/03/2010 13:18:45	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000521	Re-Slope:	1.000000
A1 (Gain):	0.000354	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999870	Status:	OK.
Std Error of Est:	0.000151		
Predicted MDL:	0.085664		
Predicted MQL:	0.285547		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.40959	-.410	.000	.00038	.000	1
CalibStd=50	50.000	49.831	-.169	-.337	.01816	.000	1
CalibStd=20	20.000	20.265	.265	1.32	.00769	.000	1
CalibStd=10	10.000	10.314	.314	3.14	.00417	.000	1

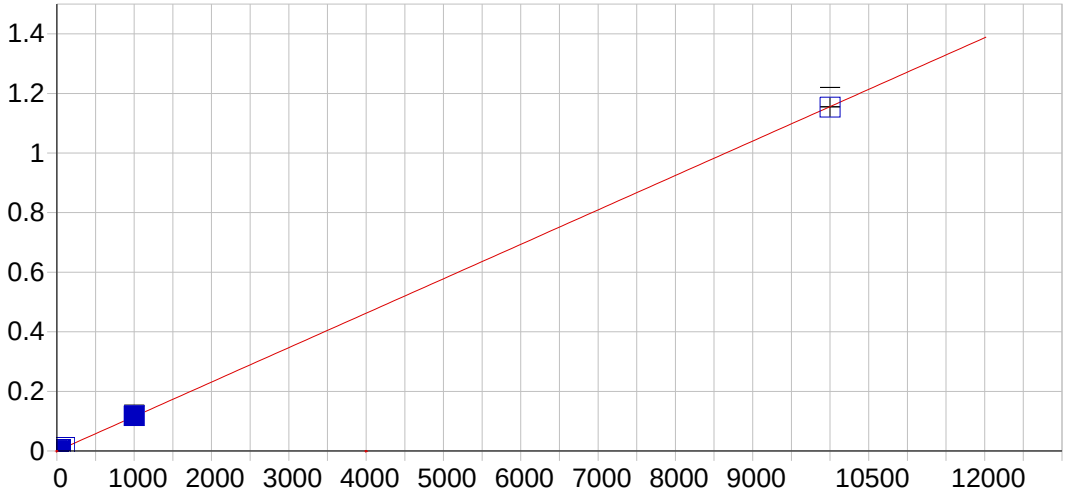


Mg 280.270 {120}

Date of Fit:	12/06/2010 13:53:25	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000271	Re-Slope:	1.000000
A1 (Gain):	0.000216	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.996154	Status:	OK.
Std Error of Est:	0.003446		
Predicted MDL:	0.184356		
Predicted MQL:	0.614520		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.25021	-.250	.000	.00022	.000	1
CalibStd=100	1000.0	1278.0	278.	27.8	.27606	.001	1
CalibStd=100	10000.	9722.0	-278.	-2.78	2.0983	.064	1

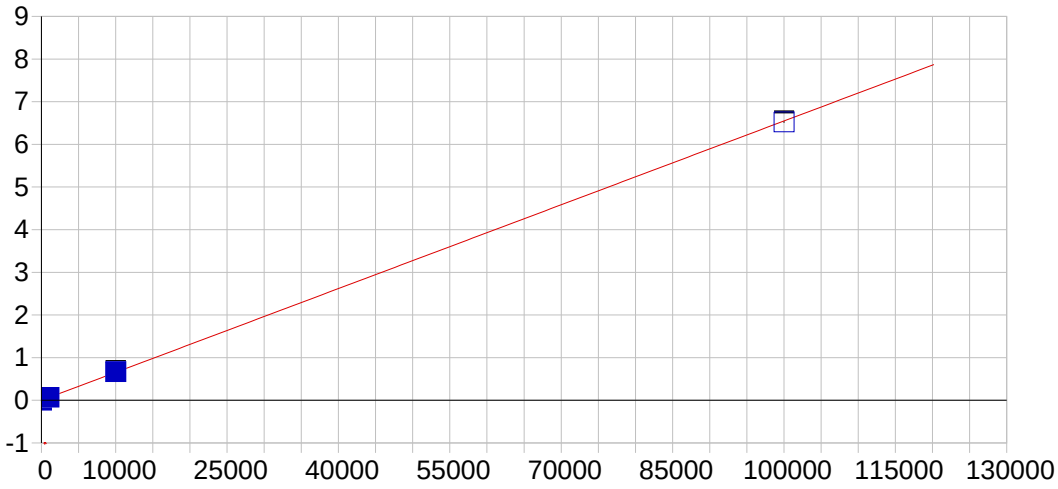


Mn 257.610 {131}

Date of Fit:	12/03/2010 13:34:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000031	Re-Slope:	1.000000
A1 (Gain):	0.000116	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999967	Status:	OK.
Std Error of Est:	0.000004		
Predicted MDL:	0.544024		
Predicted MQL:	1.813415		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00001	.000	.000	.00003	.000	1
CalibStd=10	10.000	9.8111	-.189	-1.89	.00116	.000	1
CalibStd=50	50.000	48.085	-1.91	-3.83	.00559	.000	1
CalibStd=20	20.000	19.084	-.916	-4.58	.00224	.000	1
CalibStd=100	100.00	98.994	-1.01	-1.01	.01147	.000	1
CalibStd=5	5.0000	5.3295	.329	6.59	.00065	.000	1
CalibStd=1	1.0000	1.0194	.019	1.94	.00015	.000	1
CalibStd=100	1000.0	1023.2	23.2	2.32	.11830	.001	1
CalibStd=100	10000.	9980.5	-19.5	-.195	1.1536	.032	1

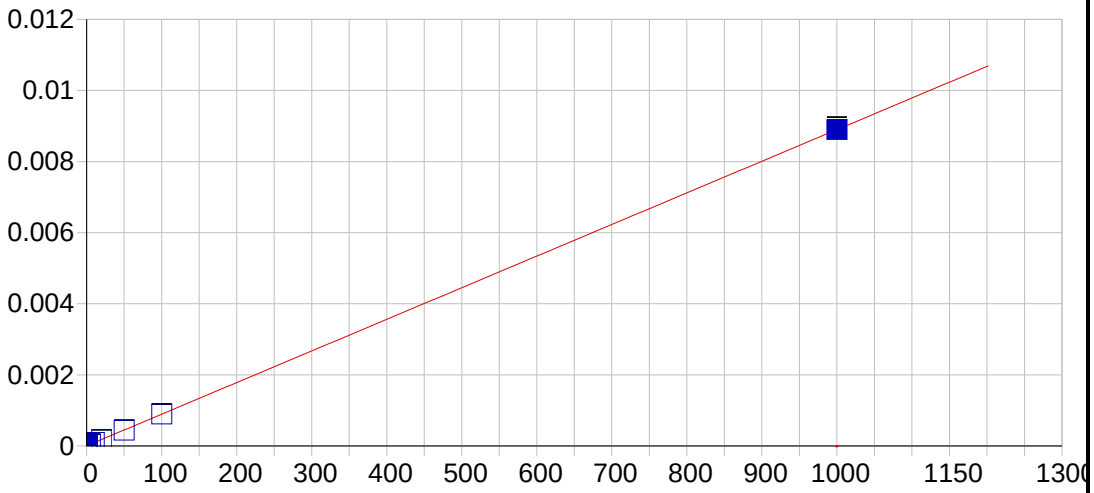


Mn 259.373 {130}

Date of Fit:	12/03/2010 13:40:52	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000007	Re-Slope:	1.000000
A1 (Gain):	0.000065	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999918	Status:	OK.
Std Error of Est:	0.000395		
Predicted MDL:	0.789048		
Predicted MQL:	2.630161		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.12678	-.127	.000	-.00002	.000	1
CalibStd=100	10000.	10239.	239.	2.39	.67386	.016	1
CalibStd-100	100000.	99653.	-347.	-.347	6.5253	.019	1
CalibStd=100	1000.0	1106.3	106.	10.6	.07278	.000	1

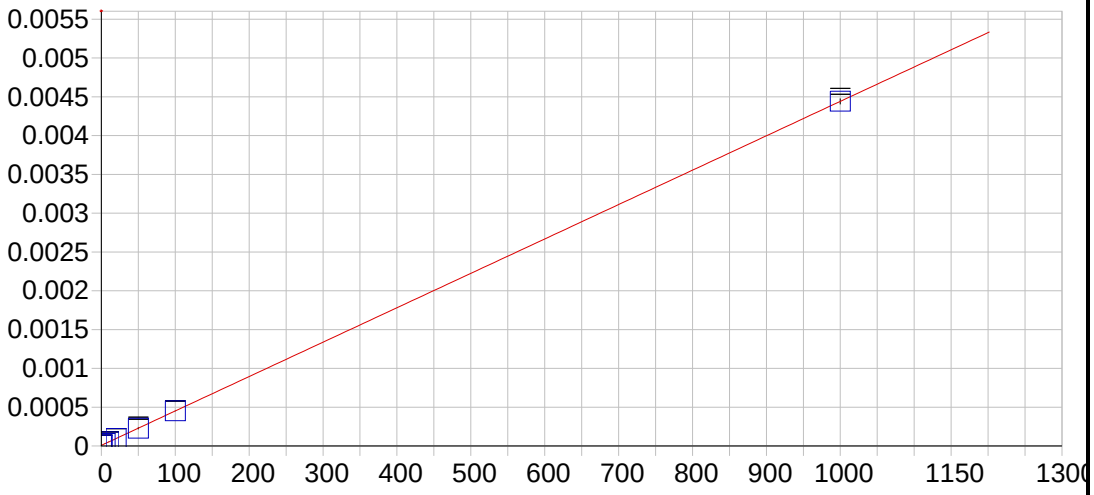


Mo 202.030 {467}

Date of Fit:	12/03/2010 13:29:14	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000004	Re-Slope:	1.000000
A1 (Gain):	0.000009	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999999	Status:	OK.
Std Error of Est:	0.000005		
Predicted MDL:	0.896640		
Predicted MQL:	2.988798		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.55090	.551	.000	.00001	.000	1
CalibStd=50	50.000	49.378	-.622	-1.24	.00044	.000	1
CalibStd=1	1.0000	.71540	-.285	-28.5	.00001	.000	1
CalibStd=20	20.000	19.133	-.867	-4.34	.00017	.000	1
CalibStd=10	10.000	10.449	.449	4.49	.00010	.000	1
CalibStd=100	100.00	100.49	.491	.491	.00090	.000	1
CalibStd=5	5.0000	5.2884	.288	5.77	.00005	.000	1
CalibStd=100	1000.0	999.99	-.006	-.001	.00890	.000	1

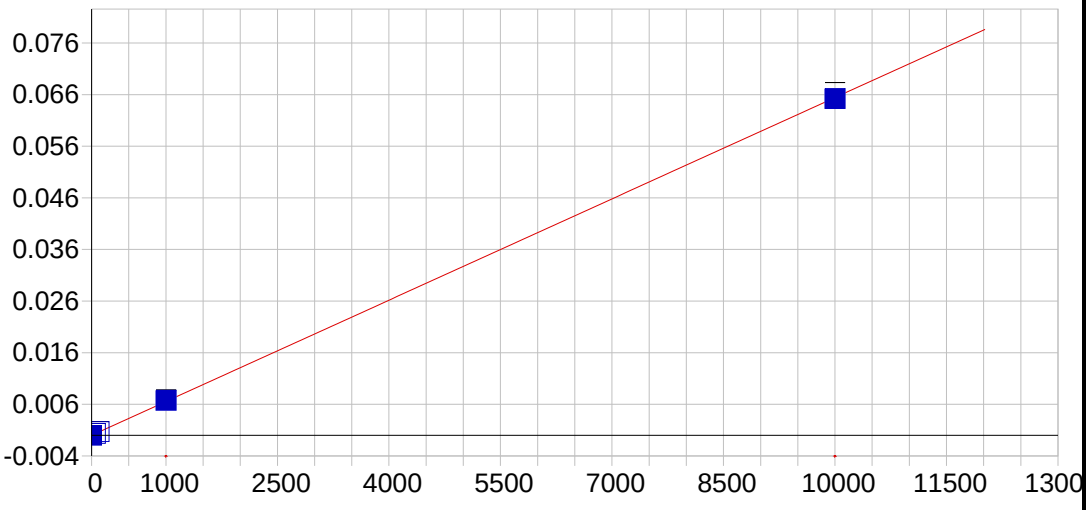


Mo 203.844 {465}

Date of Fit:	12/03/2010 13:29:14	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000008	Re-Slope:	1.000000
A1 (Gain):	0.000004	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	1.850950		
Predicted MQL:	6.169835		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.55285	.553	.000	.00001	.000	1
CalibStd=50	50.000	49.535	-.465	-.931	.00023	.000	1
CalibStd=1	1.0000	.92829	-.072	-7.17	.00001	.000	1
CalibStd=20	20.000	19.638	-.362	-1.81	.00009	.000	1
CalibStd=10	10.000	10.030	.030	.297	.00005	.000	1
CalibStd=100	100.00	100.10	.097	.097	.00045	.000	1
CalibStd=5	5.0000	5.2000	.200	4.00	.00003	.000	1
CalibStd=100	1000.0	1000.0	.020	.002	.00444	.000	1

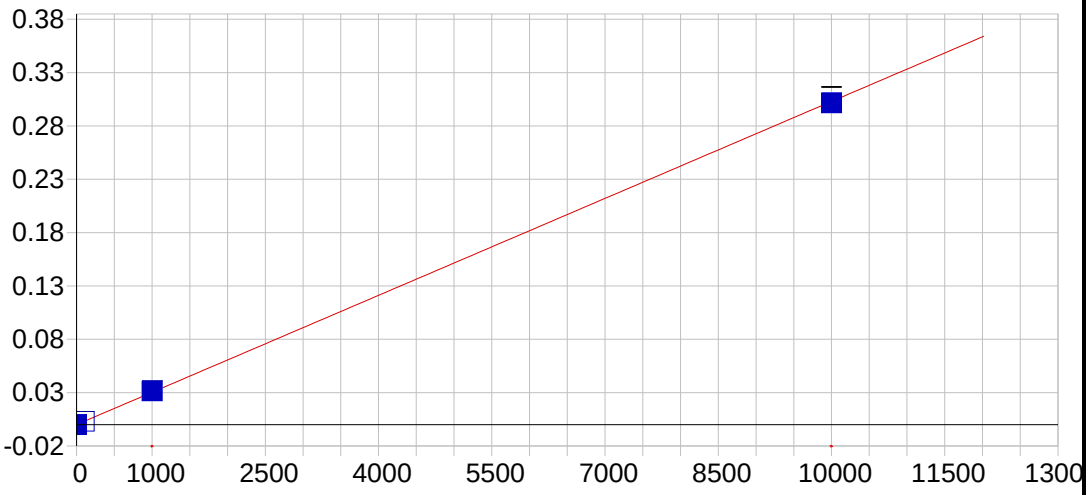


Mo 204.598 {465}

Date of Fit:	12/03/2010 13:34:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000003	Re-Slope:	1.000000
A1 (Gain):	0.000007	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999949	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	1.394092		
Predicted MQL:	4.646972		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00344	-.003	.000	.00000	.000	1
CalibStd=100	1000.0	1030.7	30.7	3.07	.00675	.000	1
CalibStd=100	10000.	9965.8	-34.2	-.342	.06520	.001	1
CalibStd=50	50.000	50.686	.686	1.37	.00033	.000	1
CalibStd=100	100.00	102.78	2.78	2.78	.00068	.000	1

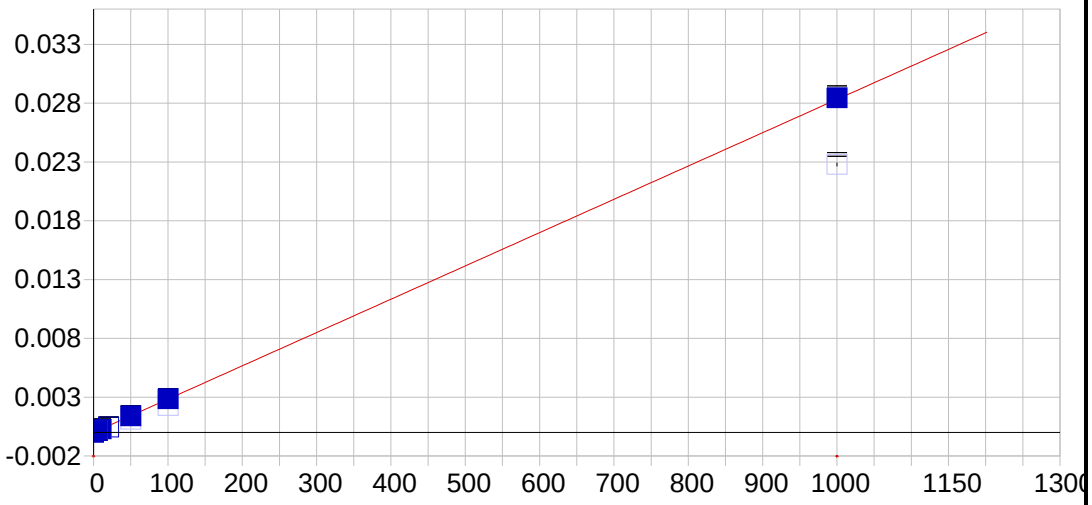


Ni 221.647 {452}

Date of Fit:	12/03/2010 13:34:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000004	Re-Slope:	1.000000
A1 (Gain):	0.000030	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999895	Status:	OK.
Std Error of Est:	0.000021		
Predicted MDL:	0.537311		
Predicted MQL:	1.791036		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00620	-.006	.000	.00000	.000	1
CalibStd=100	10000.	9952.6	-47.4	-.474	.30154	.006	1
CalibStd=100	100.00	102.14	2.14	2.14	.00310	.000	1
CalibStd=100	1000.0	1045.3	45.3	4.53	.03167	.000	1

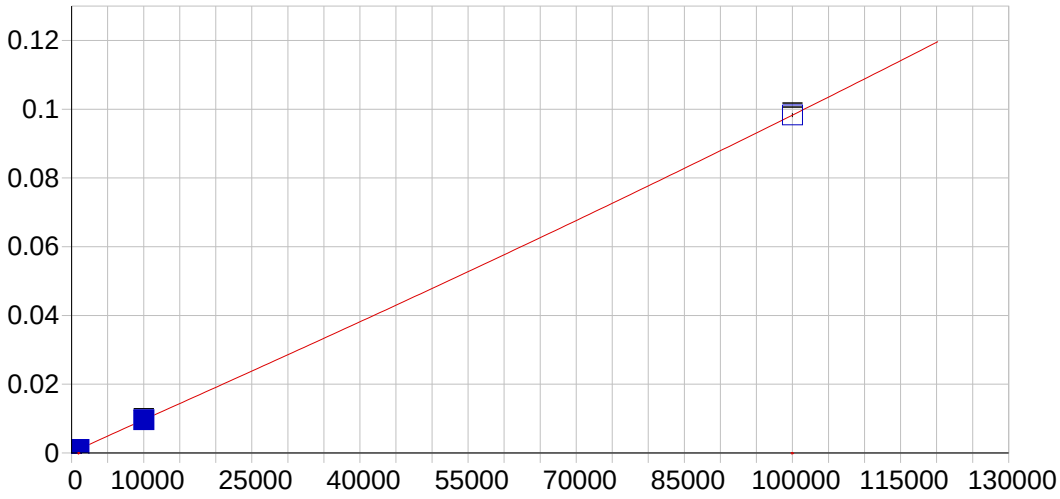


Ni 231.604 {445}

Date of Fit:	12/06/2010 14:31:10	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000002	Re-Slope:	1.000000
A1 (Gain):	0.000028	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999336	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	0.494329		
Predicted MQL:	1.647764		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00052	.001	.000	.00000	.000	1
CalibStd=50	50.000	49.477	-.523	-1.05	.00112	.000	1
CalibStd=20	20.000	15.669	-4.33	-21.7	.00044	.000	1
CalibStd=10	10.000	10.156	.156	1.56	.00023	.000	1
CalibStd=100	100.00	100.74	.737	.737	.00229	.000	1
CalibStd=5	5.0000	5.4735	.473	9.47	.00013	.000	1
CalibStd=100	1000.0	1004.6	4.57	.457	.02279	.000	1

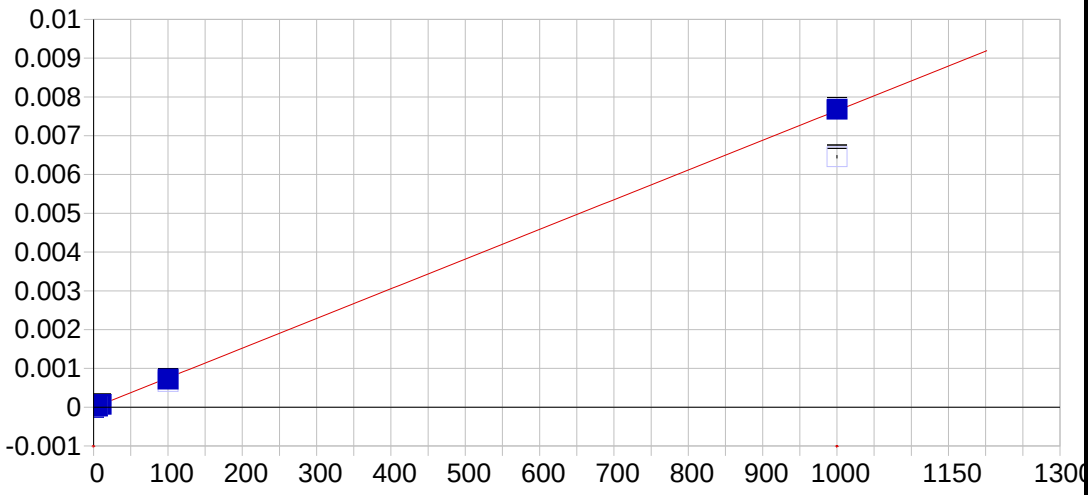


Pb 216.999 {455}

Date of Fit:	12/03/2010 13:40:52	Type of Fit:	Full Fit	Weighting:	None

A0 (Offset):	0.000013	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	0.970000		
Correlation:	1.000000	Status:	Warning Positive Curvature
Std Error of Est:	0.000000		
Predicted MDL:	10.791424		
Predicted MQL:	35.971414		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00001	.000	1
CalibStd=100	1000.0	1000.3	.316	.032	.00104	.000	1
CalibStd=100	10000.	10000.0	-.039	.000	.00967	.000	1
CalibStd-100	100000.	100000.	.000	.000	.09829	.001	1

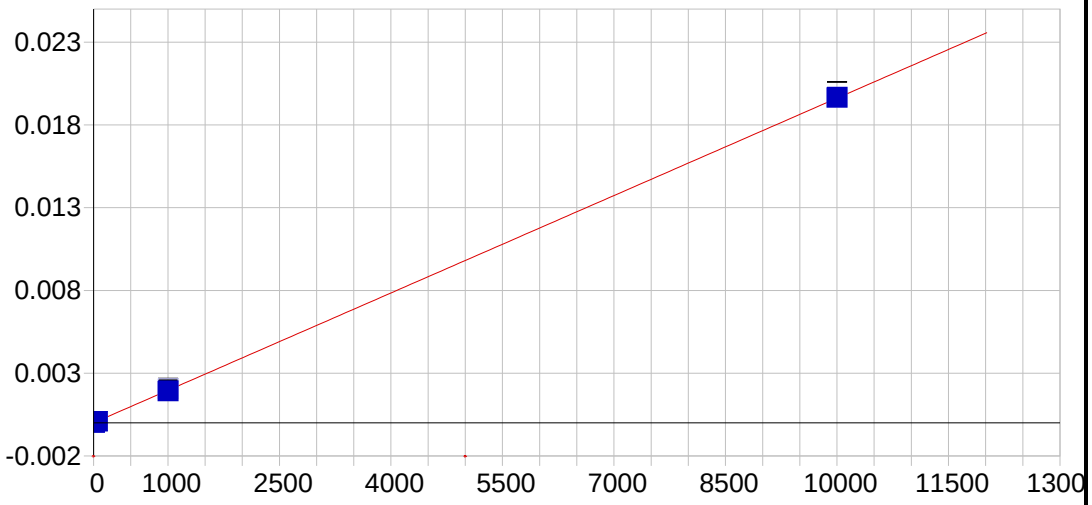


Pb 220.353 {453}

Date of Fit:	12/03/2010 13:29:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000010	Re-Slope:	1.000000
A1 (Gain):	0.000008	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999804	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	2.072715		
Predicted MQL:	6.909051		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00005	.000	.000	-.00001	.000	1
CalibStd=10	10.000	10.875	.875	8.75	.00007	.000	1
CalibStd=100	100.00	95.485	-4.51	-4.51	.00066	.000	1
CalibStd=5	5.0000	4.7139	-.286	-5.72	.00002	.000	1
CalibStd=100	1000.0	1004.3	4.30	.430	.00646	.000	1

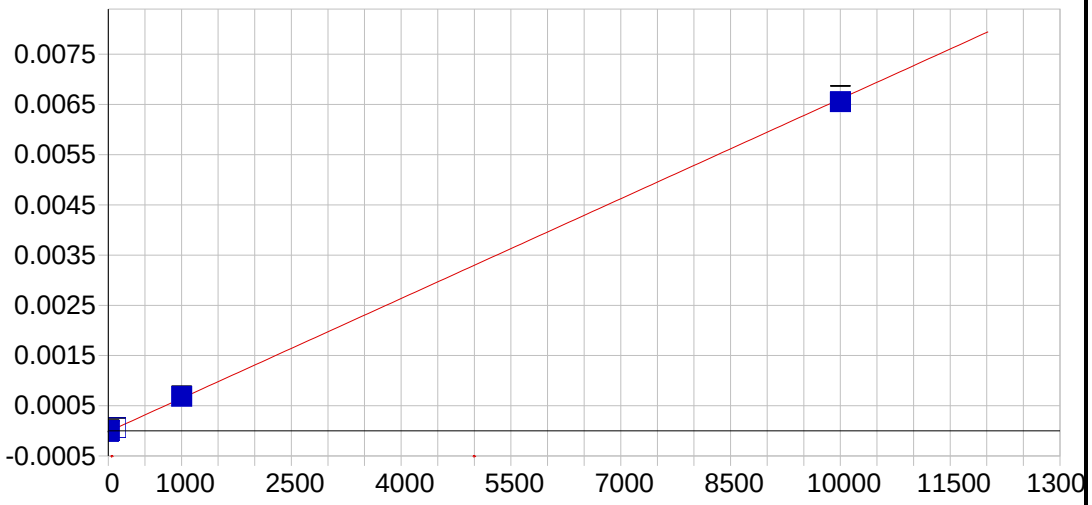


Sb 206.833 {463}

Date of Fit:	12/03/2010 13:34:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000002	Re-Slope:	1.000000
A1 (Gain):	0.000002	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999963	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	5.027101		
Predicted MQL:	16.757005		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00204	.002	.000	.00000	.000	1
CalibStd=100	1000.0	978.77	-21.2	-2.12	.00206	.000	1
CalibStd=10	10.000	8.2085	-1.79	-17.9	.00002	.000	1
CalibStd=50	50.000	49.695	-.305	-.610	.00011	.000	1
CalibStd=100	10000.	10025.	24.9	.249	.01967	.000	1

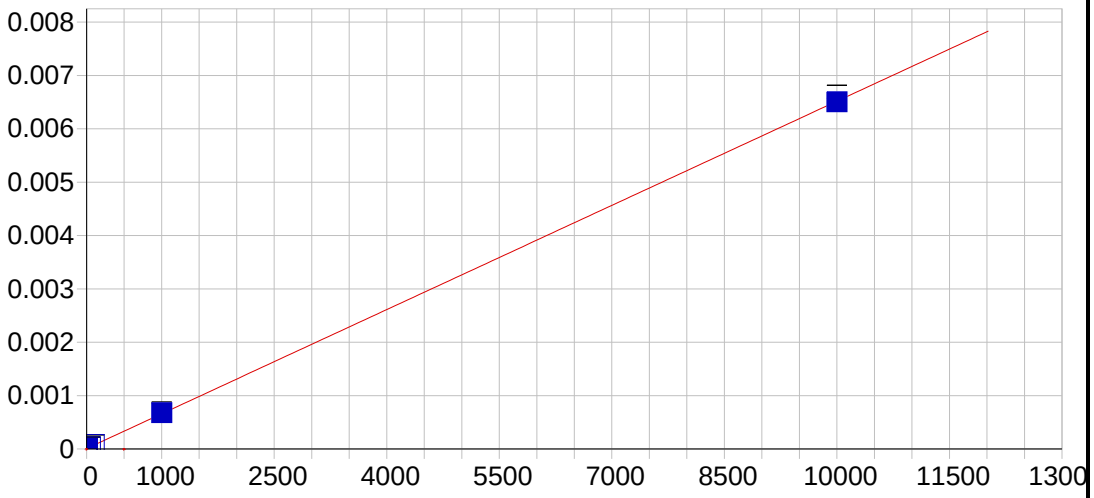


Sb 217.581 {455}

Date of Fit:	12/03/2010 13:34:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000014	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998781	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	22.755935		
Predicted MQL:	75.853116		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.01880	-.019	.000	-.00001	.000	1
CalibStd=100	1000.0	1054.0	54.0	5.40	.00068	.000	1
CalibStd=20	20.000	25.772	5.77	28.9	.00000	.000	1
CalibStd=10	10.000	24.297	14.3	143.	.00000	.000	1
CalibStd=100	100.00	111.59	11.6	11.6	.00006	.000	1
CalibStd=100	10000.	9914.3	-85.7	-.857	.00655	.000	1

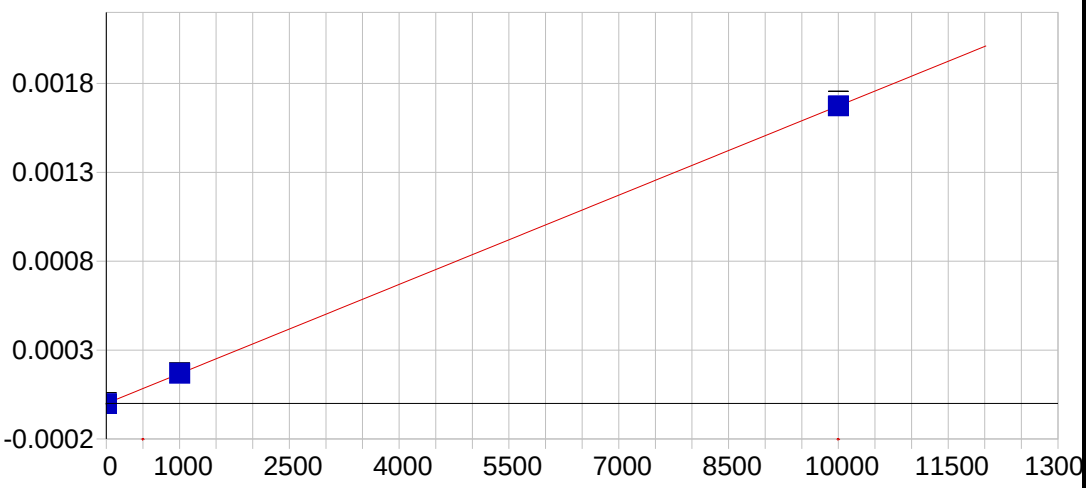


Se 196.090 {472}

Date of Fit:	12/03/2010 13:34:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000008	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999175	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	10.989014		
Predicted MQL:	36.630047		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.01247	.012	.000	.00001	.000	1
CalibStd=50	50.000	40.808	-9.19	-18.4	.00003	.000	1
CalibStd=100	1000.0	1030.4	30.4	3.04	.00068	.000	1
CalibStd=10	10.000	-2.0373	-12.0	-120.	.00001	.000	1
CalibStd=100	100.00	111.22	11.2	11.2	.00008	.000	1
CalibStd=100	10000.	9979.6	-20.4	-.204	.00650	.000	1

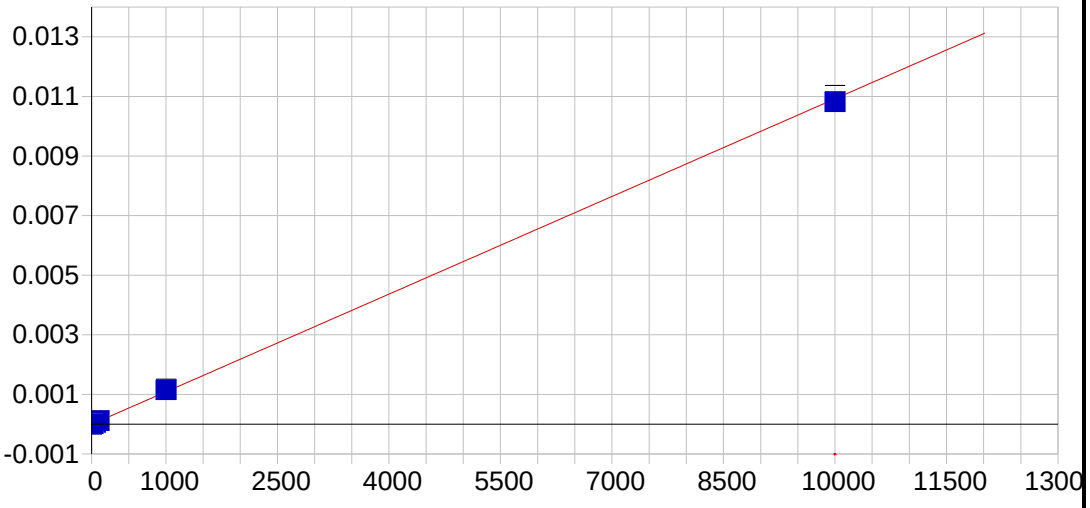


Se 206.279 {463}

Date of Fit:	12/03/2010 13:34:59	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999998	Status:	OK.
Std Error of Est:	0.000003		
Predicted MDL:	54.697681		
Predicted MQL:	182.325602		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-10.459	-10.5	.000	.00000	.000	1
CalibStd=100	1000.0	1011.6	11.6	1.16	.00017	.000	1
CalibStd=100	10000.	9998.8	-1.16	-.012	.00167	.000	1

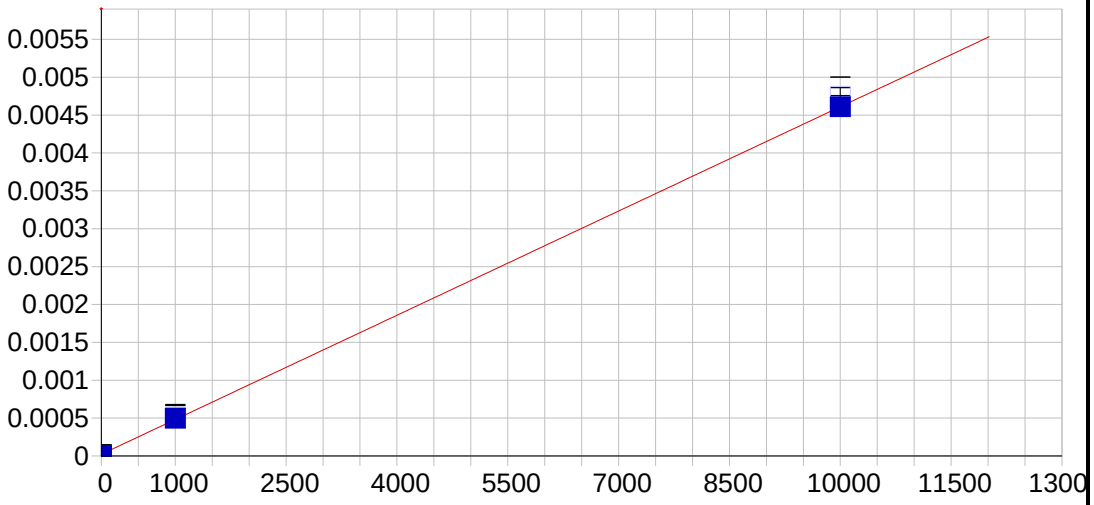


Tl 190.856 {477}

Date of Fit:	12/03/2010 13:34:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000006	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999550	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	7.817368		
Predicted MQL:	26.057894		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00987	-.010	.000	-.00001	.000	1
CalibStd=50	50.000	58.052	8.05	16.1	.00006	.000	1
CalibStd=100	1000.0	1063.8	63.8	6.38	.00116	.000	1
CalibStd=20	20.000	24.201	4.20	21.0	.00002	.000	1
CalibStd=100	100.00	108.79	8.79	8.79	.00011	.000	1
CalibStd=10	10.000	14.731	4.73	47.3	.00001	.000	1
CalibStd=100	10000.	9910.5	-89.5	-.895	.01082	.000	1

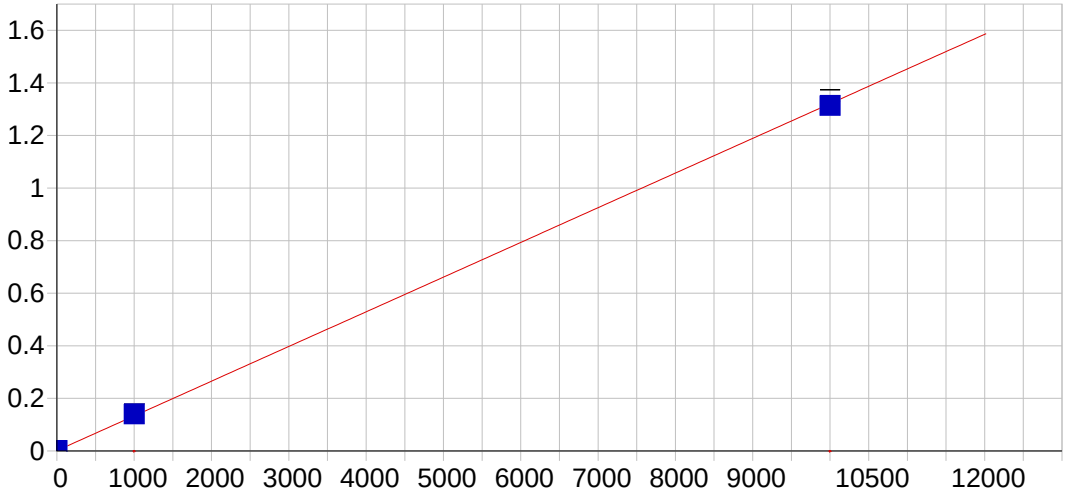


Tl 276.787 {122}

Date of Fit:	12/03/2010 13:34:59	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000022	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999986	Status:	OK.
Std Error of Est:	0.000019		
Predicted MDL:	137.066887		
Predicted MQL:	456.889623		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-28.148	-28.1	.000	.00001	.000	1
CalibStd=100	1000.0	1031.3	31.3	3.13	.00051	.000	1
CalibStd=100	10000.	9996.9	-3.13	-.031	.00475	.000	1

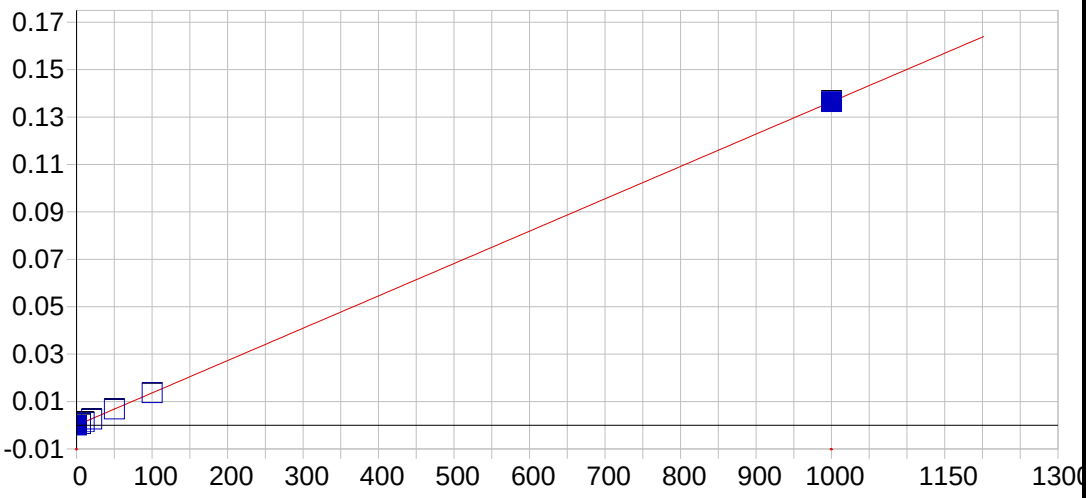


V 290.882 {116}

Date of Fit:	12/03/2010 13:34:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001479	Re-Slope:	1.000000
A1 (Gain):	0.000132	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999857	Status:	OK.
Std Error of Est:	0.000406		
Predicted MDL:	0.817399		
Predicted MQL:	2.724663		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.04817	-.048	.000	.00147	.000	1
CalibStd=100	1000.0	1053.5	53.5	5.35	.14052	.001	1
CalibStd=100	10000.	9946.5	-53.5	-.535	1.3142	.022	1

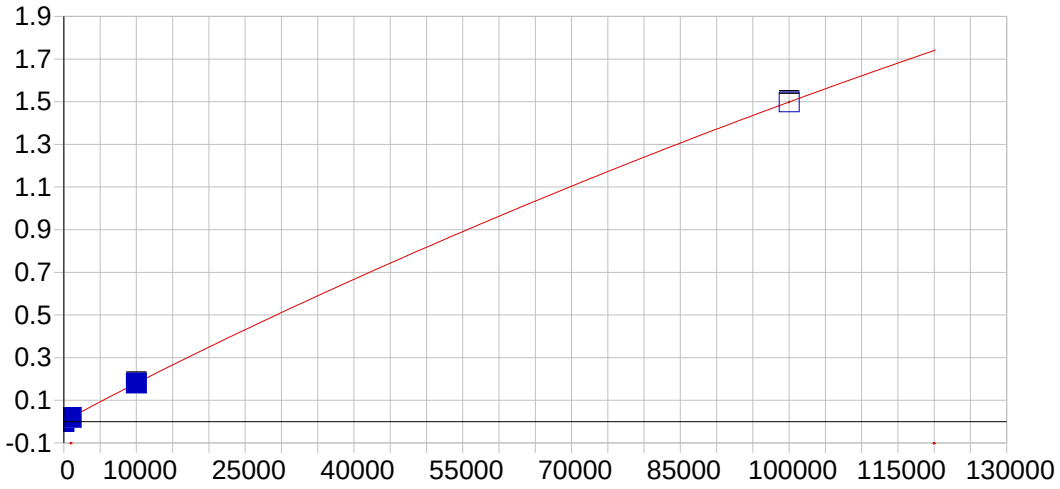


V 292.402 {115}

Date of Fit:	12/03/2010 13:29:14	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-0.000027	Re-Slope:	1.000000
A1 (Gain):	0.000136	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999999	Status:	OK.
Std Error of Est:	0.000070		
Predicted MDL:	0.883468		
Predicted MQL:	2.944893		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.40341	.403	.000	.00003	.000	1
CalibStd=50	50.000	49.948	-.052	-.104	.00679	.000	1
CalibStd=100	1000.0	999.99	-.007	-.001	.13647	.000	1
CalibStd=20	20.000	18.993	-1.01	-5.03	.00257	.000	1
CalibStd=5	5.0000	5.1509	.151	3.02	.00068	.000	1
CalibStd=10	10.000	10.246	.246	2.46	.00137	.000	1
CalibStd=100	100.00	100.27	.266	.266	.01366	.000	1

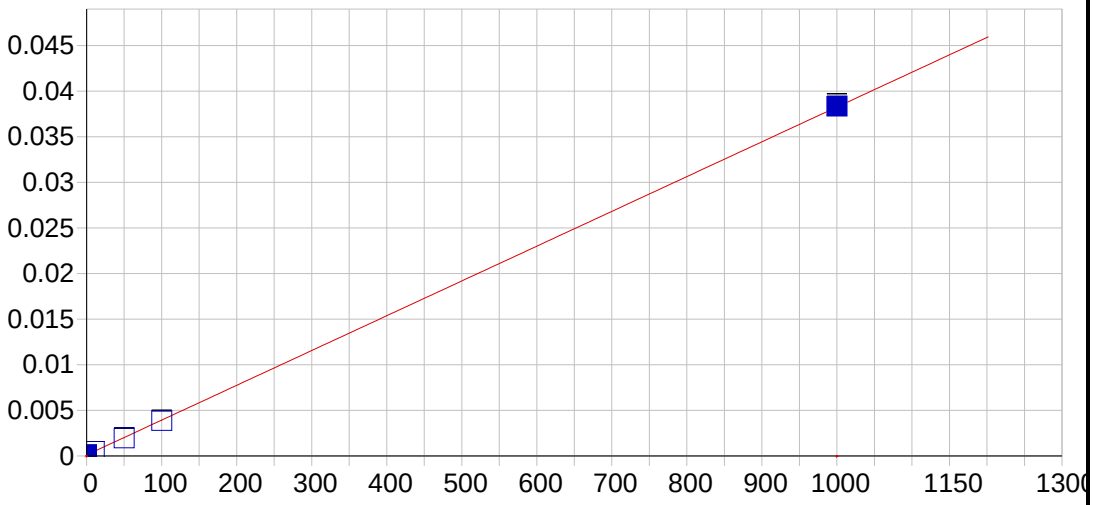


Zn 206.200 {463}

Date of Fit:	12/03/2010 13:40:52	Type of Fit:	Full Fit	Weighting:	None

A0 (Offset):	-0.000032	Re-Slope:	1.000000
A1 (Gain):	0.000024	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	0.970000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.343458		
Predicted MQL:	1.144860		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
CalibStd=100	10000.	10001.	.671	.007	.18072	.004	1
CalibStd-100	100000.	100000.	-.010	.000	1.4986	.006	1
Blank	.00000	3.7175	3.72	.000	.00005	.000	1
CalibStd=100	1000.0	994.85	-5.15	-.515	.01947	.000	1

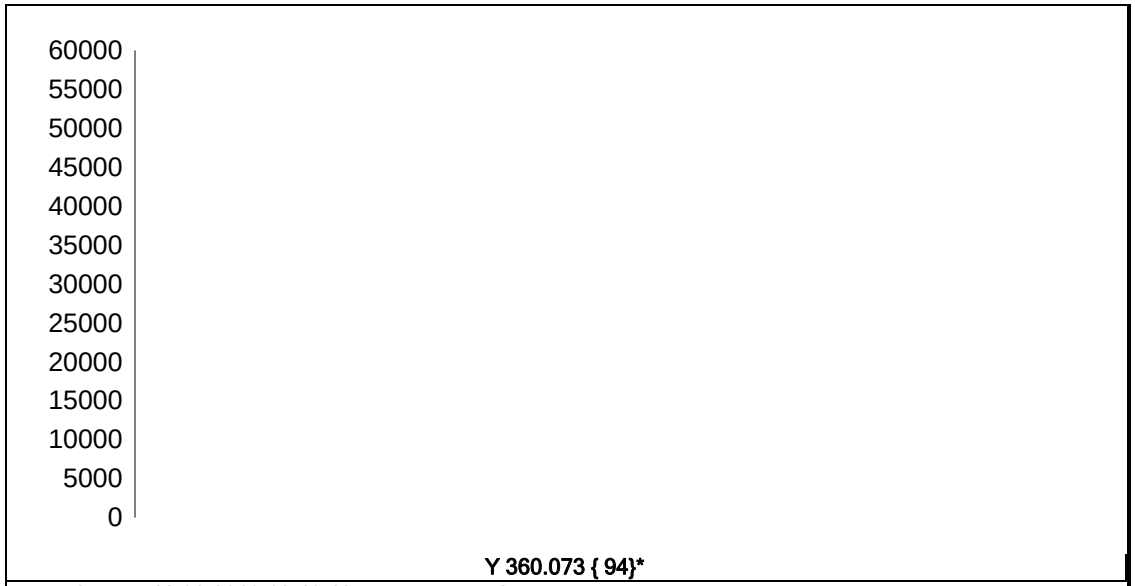


Zn 213.856 {458}

Date of Fit:	12/03/2010 13:29:14	Type of Fit:	Linear	Weighting:	1/Conc

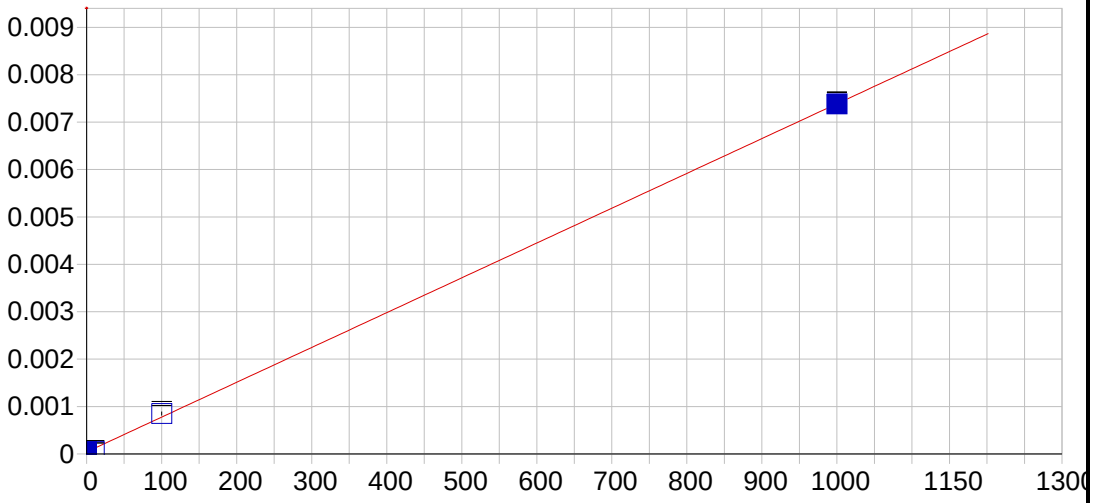
A0 (Offset):	0.000116	Re-Slope:	1.000000
A1 (Gain):	0.000038	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999957	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	0.248361		
Predicted MQL:	0.827870		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00002	.000	.000	.00012	.000	1
CalibStd=100	100.00	98.625	-1.38	-1.38	.00388	.000	1
CalibStd=50	50.000	48.375	-1.63	-3.25	.00196	.000	1
CalibStd=10	10.000	10.458	.458	4.58	.00052	.000	1
CalibStd=100	1000.0	1002.5	2.54	.254	.03836	.000	1



Date of Fit:	12/03/2010 12:40:18	Type of Fit:	Linear	Weighting:	None	
A0 (Offset):	0.000000		Re-Slope:	1.000000		
A1 (Gain):	0.000000		Y-int:	0.000000		
A2 (Curvature):	0.000000					
n (Exponent):	1.000000					
Correlation:	0.000000		Status:	Warning	Zero Gain	
Std Error of Est:	0.000000					
Predicted MDL:	n/a					
Predicted MQL:	n/a					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	51016.	498.	1

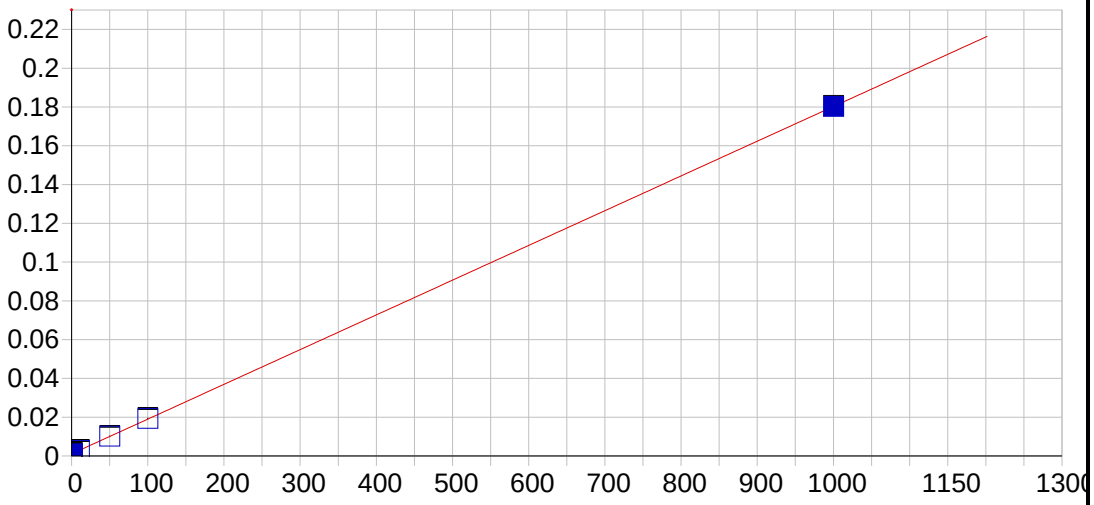


B 249.773 {135}

Date of Fit:	12/03/2010 13:29:14	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000043	Re-Slope:	1.000000
A1 (Gain):	0.000007	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999864	Status:	OK.
Std Error of Est:	0.000072		
Predicted MDL:	6.303696		
Predicted MQL:	21.012320		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.10078	.101	.000	.00004	.000	1
CalibStd=10	10.000	.66264	-9.34	-93.4	.00005	.000	1
CalibStd=100	100.00	110.16	10.2	10.2	.00085	.000	1
CalibStd=100	1000.0	999.08	-.922	-.092	.00738	.000	1

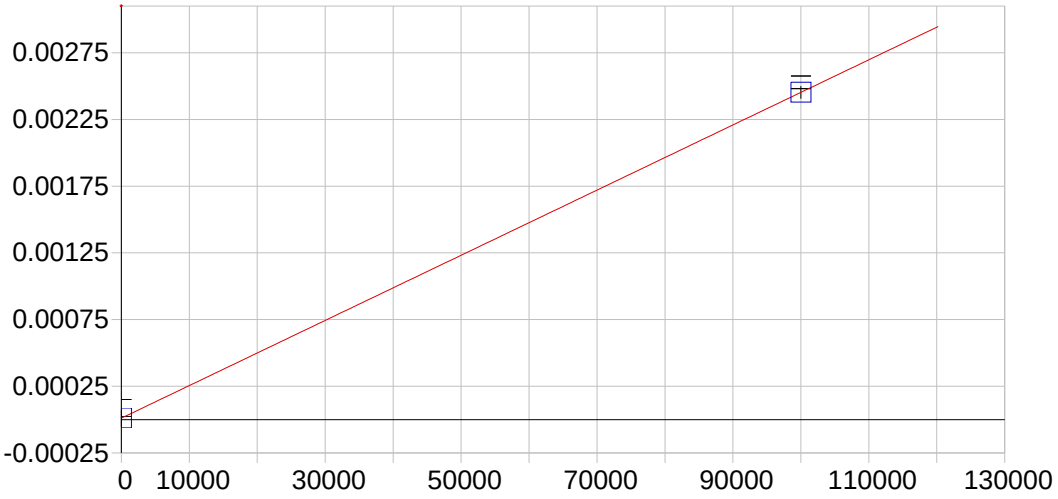


Li 670.784 { 50}

Date of Fit:	12/03/2010 13:29:14	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.001090	Re-Slope:	1.000000
A1 (Gain):	0.000179	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999995	Status:	OK.
Std Error of Est:	0.000244		
Predicted MDL:	2.062434		
Predicted MQL:	6.874779		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-1.9164	-1.92	.000	.00075	.000	1
CalibStd=10	10.000	9.4167	-.583	-5.83	.00278	.001	1
CalibStd=50	50.000	50.348	.348	.696	.01011	.000	1
CalibStd=100	100.00	101.68	1.68	1.68	.01931	.000	1
CalibStd=100	1000.0	999.82	-.180	-.018	.18023	.000	1
CalibStd=1	1.0000	1.6523	.652	65.2	.00139	.000	1

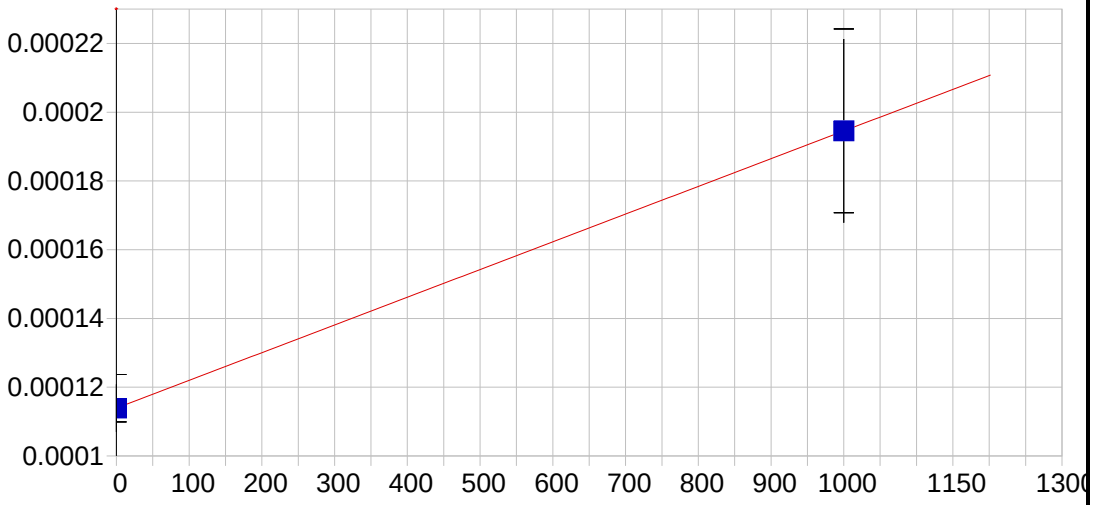


Na 330.298 {102}

Date of Fit:	12/03/2010 13:46:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000011	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	3383.868119		
Predicted MQL:	11279.56039		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00001	.000	1
CalibStd=100	100000.	100000.	.000	.000	.00245	.000	1

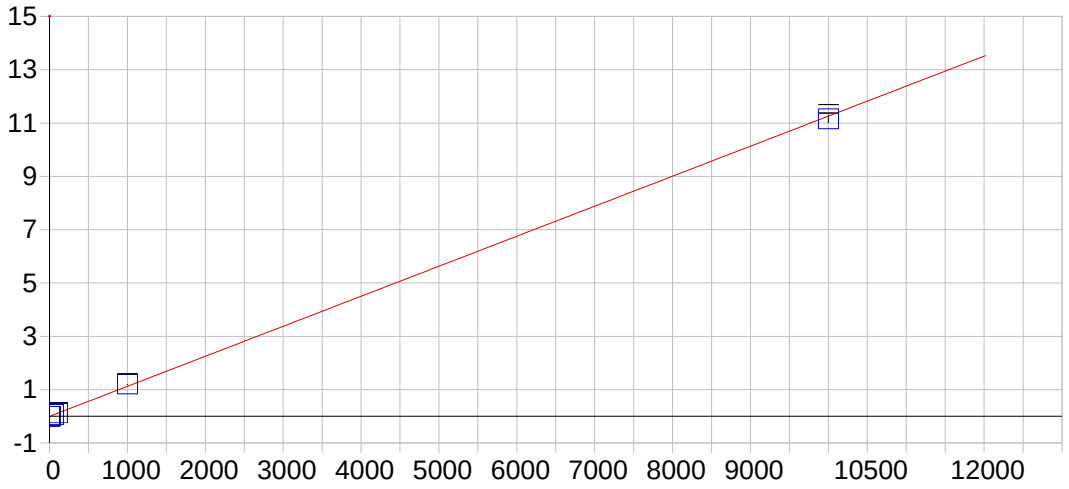


Si 251.611 {134}

Date of Fit:	12/03/2010 13:29:14	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000114	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	575.029642		
Predicted MQL:	1916.765472		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00011	.000	1
CalibStd=100	1000.0	1000.0	.000	.000	.00019	.000	1

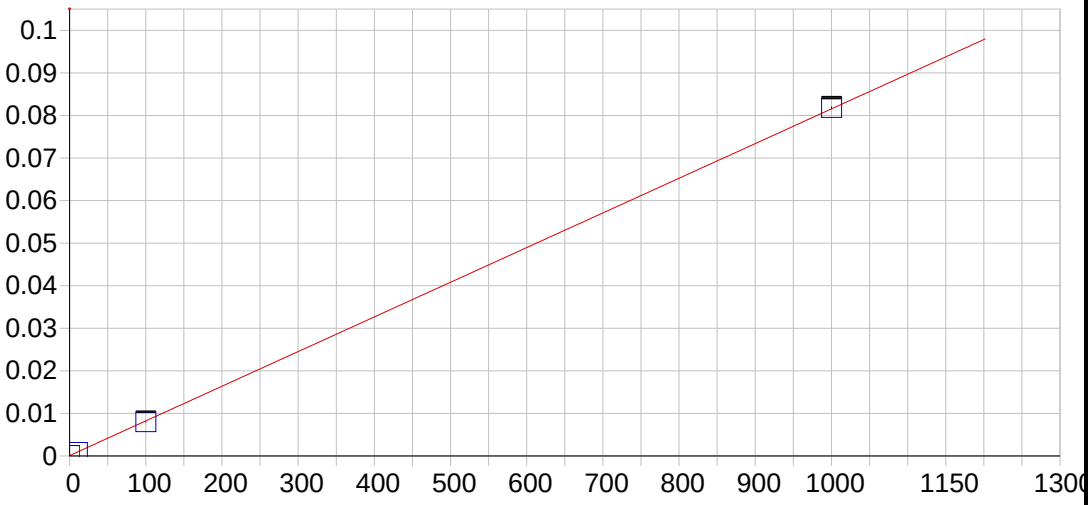


Sr 407.771 { 83}

Date of Fit:	12/03/2010 13:34:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001611	Re-Slope:	1.000000
A1 (Gain):	0.001126	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999644	Status:	OK.
Std Error of Est:	0.000116		
Predicted MDL:	0.121208		
Predicted MQL:	0.404025		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00032	.000	.000	-.00161	.000	1
CalibStd=1	1.0000	.98460	-.015	-1.54	-.00050	.000	1
CalibStd=5	5.0000	5.1951	.195	3.90	.00424	.000	1
CalibStd=10	10.000	10.443	.443	4.43	.01015	.000	1
CalibStd=50	50.000	54.128	4.13	8.26	.05933	.001	1
CalibStd=100	100.00	110.50	10.5	10.5	.12280	.001	1
CalibStd=100	1000.0	1075.3	75.3	7.53	1.2091	.002	1
CalibStd=100	10000.	9909.5	-90.5	-.905	11.156	.157	1



Ti 334.941 {101}

Date of Fit:	12/03/2010 13:29:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000091	Re-Slope:	1.000000
A1 (Gain):	0.000081	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999912	Status:	OK.
Std Error of Est:	0.000005		
Predicted MDL:	1.050606		
Predicted MQL:	3.502021		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00125	.001	.000	.00009	.000	1
CalibStd=10	10.000	8.9889	-1.01	-10.1	.00082	.000	1
CalibStd=100	100.00	97.206	-2.79	-2.79	.00801	.000	1
CalibStd=100	1000.0	1003.8	3.80	.380	.08185	.000	1

Sample Name: Blank Acquired: 12/03/2010 12:34:51 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	Al3092	Al3961	As1890	Ba4554	Ba4934	Be2348	Be3130	Ca3179	Ca3933	Ca3968
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.001**	**.000**	**.000**	**.000**	**.033**	**.000**	**.000**	**.004**	**.012**	**.004**
Stddev	.000	.000	.000	.000	.000	.00	.000	.00	.000	.000	.000	.000
%RSD	3.11	9.41	2.79	34.6	378.	35.8	1.23	140.	169.	1.86	4.04	10.2

Elem	Cd2265	Cd2288	Co2286	Co2388	Cr2677	Cr2835	Cu2247	Fe2343	Fe2395	Fe2599	Mg2790	Mg2795
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**
Stddev	.000	.000	.00	.000	.00	.000	.000	.00	.000	.000	.000	.000
%RSD	16.0	122.	82.4	185.	227.	63.6	6.51	21.9	26.0	8.08	23.4	4.58

Elem	Mg2802	Mn2576	Mn2593	Mo2020	Mo2045	Ni2216	Ni2316	Pb2169	Pb2203	Sb2068	Sb2175	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**
Stddev	.000	.000	.00	.000	.000	.000	.00	.000	.00	.000	.00	.000
%RSD	3.06	91.2	122.	28.2	564.	161.	889.	74.0	73.4	181.	102.	47.2

Elem	Se2062	Tl1908	V_2908	V_2924	Zn2062	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.001**	**.000**	**.000**	**.000**
Stddev	.00	.00	.000	.000	.000	.000
%RSD	239.	35.4	5.04	24.0	8.49	9.35

Sample Name: Blank Acquired: 12/03/2010 12:34:51 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Units	Cts/S
Avg	**51016.**
Stddev	498.
%RSD	.97521

Sample Name: CalibStd=0.25 Acquired: 12/03/2010 12:40:21 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Be3130	Cd2265
Units	Cts/S	Cts/S
Avg	**.000**	**.000**
Stddev	.000	.000
%RSD	42.4	16.9

Int. Std.	Y_3600
Units	Cts/S
Avg	**49657.**
Stddev	355.
%RSD	.71391

Sample Name: CalibStd=0.5 Acquired: 12/03/2010 12:45:50 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Be3130	Cd2265
Units	Cts/S	Cts/S
Avg	**.001**	**.000**
Stddev	.000	.000
%RSD	25.1	17.9

Int. Std.	Y_3600
Units	Cts/S
Avg	**50470.**
Stddev	244.
%RSD	.48414

Sample Name: CalibStd=1 Acquired: 12/03/2010 12:51:20 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Ba4554	Cd2265	Co2286	Cr2677	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.001**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**
Stddev	.000	.000	.000	.000	.000	.000	.000
%RSD	9.31	80.9	4.54	31.3	35.9	24.2	59.5

Int. Std.	Y_3600
Units	Cts/S
Avg	**50017.**
Stddev	656.
%RSD	1.3120

Sample Name: CalibStd=5 Acquired: 12/03/2010 12:56:50 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	Ba4554	Be3130	Cd2265	Co2286	Cr2677	Cu2247	Mn2576	Mo2020	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.001**	**.000**	**.002**	**.005**	**.000**	**.000**	**.001**	**.000**	**.001**	**.000**	**.000**	**.000**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	3.26	11.4	5.51	3.03	2.73	2.39	4.98	2.78	8.80	11.3	7.83	59.4

Elem	V_2924
Units	Cts/S
Avg	**.001**
Stddev	.000
%RSD	20.2

Int. Std.	Y_3600
Units	Cts/S
Avg	**50884.**
Stddev	145.
%RSD	.28425

Sample Name: CalibStd=10 Acquired: 12/03/2010 13:02:21 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	Ba4554	Be3130	Cd2265	Co2286	Cr2677	Cu2247	Mg2795	Mn2576	Mo2020	Ni2316
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.002**	**.000**	**.004**	**.010**	**.001**	**.000**	**.001**	**.000**	**.004**	**.001**	**.000**	**.000**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	1.37	7.34	1.93	.735	.834	2.61	2.21	4.40	.969	4.42	4.45	4.03

Elem	Pb2203	Sb2068	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.000**	**.000**	**.000**	**.001**	**.001**
Stddev	.000	.000	.000	.000	.000	.000	.000
%RSD	9.06	27.2	769.	91.2	41.6	6.68	.810

Int. Std.	Y_3600
Units	Cts/S
Avg	**51091.**
Stddev	216.
%RSD	.42311

Sample Name: CalibStd=20 Acquired: 12/03/2010 13:07:53 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al1670	Ba4554	Cr2677	Fe2599	Mg2795	Mn2576	Mo2020	Ni2316	Sb2175	Tl1908	V_2924
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.009**	**.002**	**.001**	**.008**	**.002**	**.000**	**.000**	**.000**	**.000**	**.003**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	10.3	3.36	2.11	3.18	.197	1.69	4.47	3.23	108.	20.1	4.02

Int. Std.	Y_3600
Units	Cts/S
Avg	**51608.**
Stddev	228.
%RSD	.44108

Sample Name: CalibStd=50 Acquired: 12/03/2010 13:13:22 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al1670	Ba4554	Ca3933	Cd2265	Co2286	Cr2677	Cr2835	Cu2247	Fe2599	Mg2795	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.024**	**.145**	**.005**	**.002**	**.005**	**.001**	**.001**	**.001**	**.018**	**.006**	**.000**
Stddev	.000	.001	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	1.80	3.02	1.50	1.17	1.88	2.57	2.53	2.37	2.86	1.92	2.86	1.01

Elem	Mo2045	Ni2316	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.001**	**.000**	**.000**	**.000**	**.007**	**.002**
Stddev	.000	.000	.000	.000	.000	.000	.000
%RSD	3.34	.727	4.96	13.5	11.1	1.79	1.15

Int. Std.	Y_3600
Units	Cts/S
Avg	**50814.**
Stddev	712.
%RSD	1.4004

Sample Name: CalibStd=100 Acquired: 12/03/2010 13:18:48 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	As1890	Ba4554	Be2348	Be3130	Ca3968	Cd2265	Cd2288	Co2286	Cr2677	Cr2835	Cu2247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.022**	**.000**	**.049**	**.006**	**.102**	**.091**	**.010**	**.006**	**.003**	**.010**	**.002**	**.002**
Stddev	.000	.000	.001	.000	.001	.001	.000	.000	.000	.000	.000	.000
%RSD	1.39	4.00	1.44	.657	.777	1.10	.492	.725	.787	.094	.703	.926

Elem	Fe2599	Mn2576	Mo2020	Mo2045	Ni2216	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.002**	**.011**	**.001**	**.001**	**.003**	**.002**	**.001**	**.000**	**.000**	**.000**	**.014**	**.004**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	2.78	1.56	.956	.204	.865	.909	2.40	7.26	7.55	2.40	.303	.824

Int. Std.	Y_3600
Units	Cts/S
Avg	**50760.**
Stddev	367.
%RSD	.72350

Sample Name: CalibStd=1000 Acquired: 12/03/2010 13:24:12 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al1670	Al3092	Al3961	As1890	Ba4934	Be2348	Be3130	Ca3179	Ca3968	Cd2265	Cd2288	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.002**	**.007**	**.015**	**.000**	**.669**	**.066**	**1.03**	**.022**	**1.05**	**.101**	**.059**	**.031**
Stddev	.000	.000	.000	.000	.002	.000	.00	.000	.00	.001	.000	.000
%RSD	.739	1.82	.752	1.96	.301	.538	.347	.740	.284	.986	.727	.793

Elem	Co2388	Cr2677	Cr2835	Cu2247	Fe2343	Fe2395	Fe2599	Mg2790	Mg2802	Mn2576	Mn2593	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.006**	**.106**	**.022**	**.019**	**.000**	**.004**	**.022**	**.002**	**.276**	**.118**	**.073**	**.009**
Stddev	.000	.001	.000	.000	.000	.000	.000	.000	.001	.001	.000	.000
%RSD	.678	.882	.839	.882	2.82	1.28	.389	2.14	.387	.919	.418	.776

Elem	Mo2045	Ni2216	Ni2316	Pb2169	Pb2203	Sb2068	Sb2175	Se1960	Se2062	Tl1908	V_2908	V_2924
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.007**	**.032**	**.023**	**.001**	**.006**	**.002**	**.001**	**.001**	**.000**	**.001**	**.141**	**.136**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000
%RSD	.629	.905	.692	1.06	.682	.888	.516	1.05	1.84	.795	.441	.365

Elem	Zn2062	Zn2138
Units	Cts/S	Cts/S
Avg	**.019**	**.038**
Stddev	.000	.000
%RSD	.448	.674

Sample Name: CalibStd=1000 Acquired: 12/03/2010 13:24:12 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Units	Cts/S
Avg	**50134.**
Stddev	228.
%RSD	.45426

Sample Name: CalibStd=10000 Acquired: 12/03/2010 13:29:17 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al3092	Al3961	As1890	Ba4934	Ca3179	Ca3968	Co2388	Cr2835	Cu2247	Fe2343	Fe2395	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.048**	**.113**	**.004**	**6.27**	**.139**	**7.91**	**.056**	**.209**	**.177**	**.002**	**.034**	**.013**
Stddev	.001	.003	.000	.08	.004	.23	.001	.005	.003	.000	.001	.000
%RSD	2.90	2.52	1.68	1.33	2.77	2.88	2.43	2.42	1.69	5.25	2.95	3.56

Elem	Mg2802	Mn2576	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068	Sb2175	Se1960	Se2062	Tl1908	V_2908
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.10**	**1.15**	**.674**	**.065**	**.302**	**.010**	**.020**	**.007**	**.007**	**.002**	**.011**	**1.31**
Stddev	.06	.03	.016	.001	.006	.000	.000	.000	.000	.000	.000	.02
%RSD	3.04	2.82	2.31	1.80	1.88	2.15	1.65	1.83	1.87	1.50	1.92	1.66

Elem	Zn2062
Units	Cts/S
Avg	**.181**
Stddev	.004
%RSD	1.96

Int. Std.	Y_3600
Units	Cts/S
Avg	**50253.**
Stddev	916.
%RSD	1.8220

Sample Name: CalibStd-100k Acquired: 12/03/2010 13:35:02 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Cr2835	Mn2593	Pb2169	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.11**	**6.53**	**.098**	**1.50**
Stddev	.01	.02	.001	.01
%RSD	.397	.298	.581	.415

Int. Std.	Y_3600
Units	Cts/S
Avg	**50345.**
Stddev	197.
%RSD	.39078

Sample Name: CalibStd=100000 Acquired: 12/03/2010 13:40:56 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al3092	Al3961	Ca3179	Fe2343	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.461**	**1.09**	**1.33**	**.019**	**.134**
Stddev	.002	.00	.01	.000	.001
%RSD	.390	.399	.353	.791	.493

Int. Std.	Y_3600
Units	Cts/S
Avg	**49360.**
Stddev	372.
%RSD	.75426

Sample Name: CalibStd=500000 Acquired: 12/03/2010 13:46:48 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al3961	Ca3179	Fe2343	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5.72**	**6.21**	**.088**	**.637**
Stddev	.00	.04	.001	.007
%RSD	.010	.658	1.41	1.13

Int. Std.	Y_3600
Units	Cts/S
Avg	**48356.**
Stddev	337.
%RSD	.69793

Sample Name: CalibStd-1000k Acquired: 12/03/2010 13:52:40 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al3961	Ca3179	Fe2343	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**11.1**	**11.5**	**.150**	**1.14**
Stddev	.1	.2	.002	.02
%RSD	.957	1.63	1.64	1.48

Int. Std.	Y_3600
Units	Cts/S
Avg	**47243.**
Stddev	385.
%RSD	.81400

Sample Name: icv Acquired: 12/03/2010 14:04:19 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2388	Cr2677	Cu2247	Fe2395
Avg	**116.**	**12200.**	**2050.**	**2060.**	**50.5**	**10100.**	**49.8**	**518.**	**197.**	**252.**	**4920.**
Stddev	2.	65.	21.	14.	.1	35.	.2	8.	2.	1.	21.
%RSD	1.62	.532	1.00	.677	.291	.347	.483	1.46	.924	.207	.434
Check ?	None	None	None	None	None	None	None	None	None	None	None
Value											
Range											

Elem	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se2062	Tl1908	V_2924	Zn2138
Avg	**10400.**	**508.**	**504.**	**495.**	**499.**	**536.**	**2120.**	**2110.**	**491.**	**505.**
Stddev	80.	1.	2.	2.	2.	10.	54.	15.	1.	2.
%RSD	.765	.244	.323	.345	.333	1.87	2.53	.714	.243	.410
Check ?	None	None	None	None	None	None	None	None	None	None
Value										
Range										

Int. Std.	Y_3600
Avg	**50998.**
Stddev	122.
%RSD	.23904

Sample Name: icb Acquired: 12/03/2010 14:15:22 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1890	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**.016**	**25.9**	**-8.14**	**.479**	**.030**	**25.4**	**-.062**	**.328**	**.945**	**.261**	**22.1**	**28.2**
Stddev	1.05	2.5	5.23	.213	.013	2.5	.223	.028	.076	.898	4.2	3.0
%RSD	6540.	9.71	64.2	44.6	41.7	9.77	361.	8.41	8.00	345.	18.8	10.5
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**.414**	**.913**	**.560**	**.941**	**-1.05**	**-.384**	**.938**	**.226**	**-.551**
Stddev	.143	.850	.641	1.45	3.80	.674	3.54	.085	.153
%RSD	34.6	93.2	115.	154.	362.	175.	378.	37.4	27.8
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**50932.**
Stddev	149.
%RSD	.29297

Sample Name: MRL Acquired: 12/03/2010 14:20:52 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1890	Ba4554	Be3130	Ca3968	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**20.1**	**346.**	**7.68**	**9.83**	**3.95**	**540.**	**5.00**	**10.4**	**10.9**	**11.3**	**289.**	**522.**
Stddev	.0	3.	18.8	.37	.04	.	.08	.3	.6	.1	5.	.
%RSD	.024	.765	245.	3.78	1.05	.030	1.61	2.49	5.29	.540	1.57	.028
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**12.7**	**10.0**	**10.2**	**12.0**	**20.5**	**10.9**	**24.6**	**9.89**	**10.6**
Stddev	.1	.5	.4	1.1	2.5	3.2	1.3	.43	.1
%RSD	.619	5.30	4.04	9.26	12.4	29.3	5.32	4.36	1.40
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**51209.**
Stddev	49.
%RSD	.09568

Sample Name: icsa Acquired: 12/03/2010 14:26:19 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Avg	**.000**	**537000.**	**.003**	**.015**	**.003**	**572000.**	**.081**	**.037**	**.004**	**.000**
Stddev	.398	5370.	9.83	.246	.019	8930.	.035	.331	.846	.189
%RSD	30e15	.998	374000.	1590.	685.	1.56	43.2	891.	23800.	108000.
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2343	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Avg	**486000.**	**516000.**	**.000**	**-.056**	**.027**	**.016**	**.025**	**-.019**	**.086**	**.077**
Stddev	1830.	4630.	.706	.860	.219	2.37	5.72	11.6	7.02	.402
%RSD	.375	.898	1085e6	1540.	808.	14400.	22500.	60300.	8190.	522.
Check ?	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Zn2138
Avg	**.000**
Stddev	.625
%RSD	416000.
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: icsa Acquired: 12/03/2010 14:26:19 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Avg	**47864.**
Stddev	285.
%RSD	.59480

Sample Name: icsab Acquired: 12/03/2010 14:32:18 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be2348	Ca3179	Cd2265	Co2388	Cr2677	Cu2247
Avg	**535.**	**553000.**	**552.**	**595.**	**410.**	**585000.**	**442.**	**442.**	**474.**	**509.**
Stddev	3.	780.	22.	4.	3.	4230.	4.	10.	2.	5.
%RSD	.647	.141	4.05	.602	.716	.723	.962	2.27	.442	.940
Check ?	None	None	None	None	None	None	None	None	None	None
Value										
Range										

Elem	Fe2343	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se2062	Tl1908	V_2924
Avg	**467000.**	**504000.**	**561.**	**527.**	**469.**	**480.**	**580.**	**491.**	**477.**	**536.**
Stddev	4660.	3770.	6.	3.	4.	5.	6.	79.	4.	3.
%RSD	.997	.747	1.15	.604	.883	1.02	1.03	16.1	.937	.570
Check ?	None	None	None	None	None	None	None	None	None	None
Value										
Range										

Elem	Zn2138
Avg	**537.**
Stddev	5.
%RSD	.971
Check ?	None
Value	
Range	

Sample Name: icsab Acquired: 12/03/2010 14:32:18 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Avg	**48226.**
Stddev	399.
%RSD	.82646

Sample Name: ccv1 Acquired: 12/03/2010 18:11:10 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be2348	Ca3179	Cd2288	Co2388	Cr2835	Cu2247	Fe2395	Mg2790
Avg	**470.**	**5290.**	**5020.**	**5320.**	**539.**	**5110.**	**516.**	**5430.**	**5150.**	**5120.**	**5420.**	**5250.**
Stddev	3.	10.	55.	11.	2.	18.	2.	11.	20.	18.	50.	80.
%RSD	.687	.183	1.10	.204	.375	.342	.456	.210	.383	.347	.926	1.52
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068	Se2062	Tl1908	V_2908	Zn2062
Avg	**5430.**	**5020.**	**5120.**	**5080.**	**4780.**	**5150.**	**5070.**	**5150.**	**5000.**
Stddev	60.	30.	22.	10.	27.	81.	13.	28.	27.
%RSD	1.11	.597	.420	.197	.558	1.57	.264	.538	.536
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**50130.**
Stddev	210.
%RSD	.41820

Sample Name: ccv2 Acquired: 12/03/2010 18:16:20 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**51.8**	**440.**	**515.**	**535.**	**50.4**	**544.**	**52.7**	**514.**	**512.**	**533.**	**451.**	**517.**
Stddev	1.1	9.	13.	10.	1.1	8.	.6	7.	7.	9.	9.	9.
%RSD	2.10	1.94	2.43	1.84	2.16	1.49	1.22	1.29	1.29	1.63	2.07	1.68
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se2062	Tl1908	V_2924	Zn2138
Avg	**536.**	**499.**	**518.**	**517.**	**486.**	**526.**	**545.**	**510.**	**509.**
Stddev	10.	7.	8.	9.	5.	18.	9.	9.	7.
%RSD	1.79	1.45	1.62	1.67	1.13	3.44	1.62	1.72	1.45
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**50971.**
Stddev	680.
%RSD	1.3334

Sample Name: ccb Acquired: 12/03/2010 18:27:01 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1890	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**.190**	**6.45**	**1.87**	**.797**	**-.002**	**11.9**	**-.051**	**.512**	**.252**	**.245**	**7.85**	**4.13**
Stddev	1.13	1.15	9.06	.401	.029	.0	.039	.211	.121	.688	1.93	.12
%RSD	595.	17.8	483.	50.2	1910.	.210	76.2	41.3	48.0	281.	24.6	2.80
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**.369**	**.677**	**.381**	**.494**	**-1.29**	**-2.92**	**5.75**	**.205**	**-1.17**
Stddev	.293	.100	.170	.675	2.64	5.81	4.62	.291	.23
%RSD	79.4	14.8	44.5	137.	205.	199.	80.3	142.	19.6
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**50028.**
Stddev	68.
%RSD	.13546

Sample Name: lcss35624 Acquired: 12/03/2010 18:55:32 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2388	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**83.1**	**4030.**	**3710.**	**3950.**	**93.7**	**189000.**	**87.4**	**988.**	**351.**	**431.**
Stddev	.6	40.	49.	21.	.5	1160.	.7	7.	4.	4.
%RSD	.735	.987	1.31	.521	.538	.612	.809	.730	1.09	1.01

Elem	Fe2395	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se2062	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1910.**	**91400.**	**951.**	**-.177**	**877.**	**856.**	**941.**	**3660.**	**3350.**	**889.**
Stddev	19.	753.	4.	.306	7.	7.	6.	91.	39.	3.
%RSD	.979	.824	.390	173.	.757	.767	.631	2.49	1.16	.359

Elem	Zn2138
Units	ug/L
Avg	**900.**
Stddev	8.
%RSD	.873

Int. Std.	Y_3600
Units	Cts/S
Avg	**47973.**
Stddev	365.
%RSD	.76092

Sample Name: mbw35624 Acquired: 12/03/2010 19:01:12 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1890	Ba4554	Be3130	Ca3968	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.025**	**63.6**	**-.946**	**1.43**	**-.018**	**90.6**	**-.156**	**.300**	**1.20**	**.118**	**135.**	**26.2**
Stddev	.284	1.5	6.29	.37	.029	1.0	.054	.217	.93	.246	4.	.3
%RSD	1130.	2.43	665.	25.6	161.	1.12	34.4	72.5	77.6	208.	3.25	.975

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**10.4**	**.506**	**.007**	**.276**	**-4.04**	**2.24**	**.944**	**.521**	**-1.12**
Stddev	.4	.919	.330	2.14	.98	5.69	9.48	.308	.03
%RSD	3.53	181.	4970.	775.	24.3	254.	1000.	59.0	2.87

Int. Std.	Y_3600
Units	Cts/S
Avg	**49755.**
Stddev	151.
%RSD	.30303

Sample Name: 870188 Acquired: 12/03/2010 19:06:42 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**4.16**	**183000.**	**185.**	**2030.**	**11.3**	**199000.**	**4.51**	**138.**	**271.**	**139.**
Stddev	.42	6160.	8.	69.	.3	10500.	.16	1.	3.	1.
%RSD	10.2	3.36	4.33	3.37	2.35	5.28	3.43	1.05	.973	.510

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**376000.**	**37500.**	**29000.**	**21.9**	**242.**	**307.**	**7.07**	**37.5**	**6.97**	**375.**
Stddev	9510.	1180.	944.	1.3	2.	2.	3.73	20.9	2.01	5.
%RSD	2.53	3.16	3.26	5.98	.890	.613	52.7	55.8	28.9	1.32

Elem	Zn2138
Units	ug/L
Avg	**818.**
Stddev	9.
%RSD	1.16

Int. Std.	Y_3600
Units	Cts/S
Avg	**50593.**
Stddev	286.
%RSD	.56454

Sample Name: 870189 Acquired: 12/03/2010 19:12:26 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**2.88**	**214000.**	**199.**	**2370.**	**11.1**	**73400.**	**5.77**	**178.**	**2150.**	**203.**
Stddev	.58	772.	13.	14.	.1	248.	.21	1.	8.	3.
%RSD	20.1	.360	6.71	.573	1.09	.338	3.60	.821	.360	1.34

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2169	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**442000.**	**36900.**	**28000.**	**27.1**	**252.**	**954.**	**1950.**	**33.6**	**8.31**	**421.**
Stddev	1020.	278.	97.	1.0	2.	5.	12.	17.1	3.03	1.
%RSD	.230	.754	.345	3.74	.692	.548	.630	51.0	36.5	.263

Elem	Zn2062
Units	ug/L
Avg	**1150.**
Stddev	3.
%RSD	.279

Int. Std.	Y_3600
Units	Cts/S
Avg	**50780.**
Stddev	269.
%RSD	.53034

Sample Name: I870189 Acquired: 12/03/2010 19:18:02 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3092	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247	Fe2343
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.081**	**44600.**	**53.1**	**463.**	**2.31**	**14900.**	**.697**	**39.7**	**414.**	**47.2**	**92600.**
Stddev	.679	241.	3.6	2.	.04	50.	.231	.1	4.	.3	781.
%RSD	843.	.539	6.88	.431	1.91	.334	33.2	.207	1.08	.598	.843

Elem	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**7500.**	**5920.**	**6.27**	**56.5**	**274.**	**426.**	**-2.46**	**4.04**	**90.2**	**266.**
Stddev	82.	21.	.16	.4	.	3.	1.16	2.90	.8	2.
%RSD	1.09	.352	2.49	.790	.173	.800	47.0	71.6	.837	.611

Int. Std.	Y_3600
Units	Cts/S
Avg	**51301.**
Stddev	279.
%RSD	.54431

Sample Name: dup870189 Acquired: 12/03/2010 19:23:35 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-.628**	**219000.**	**203.**	**2300.**	**11.5**	**73200.**	**4.18**	**181.**	**2080.**	**228.**
Stddev	.518	285.	17.	4.	.0	15.	.14	1.	5.	1.
%RSD	82.4	.130	8.31	.155	.123	.020	3.34	.294	.254	.652

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2169	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**381000.**	**32300.**	**29100.**	**25.9**	**250.**	**996.**	**1740.**	**9.66**	**13.3**	**423.**
Stddev	1890.	135.	79.	1.0	1.	17.	7.	18.5	3.8	2.
%RSD	.495	.418	.270	3.76	.317	1.68	.380	191.	28.4	.403

Elem	Zn2062
Units	ug/L
Avg	**1180.**
Stddev	2.
%RSD	.204

Int. Std.	Y_3600
Units	Cts/S
Avg	**50891.**
Stddev	115.
%RSD	.22667

Sample Name: ccv1 Acquired: 12/03/2010 19:29:12 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be2348	Ca3179	Cd2265	Co2388	Cr2835	Cu2247	Fe2395	Mg2802
Avg	**470.**	**5080.**	**5020.**	**4830.**	**503.**	**4800.**	**442.**	**5440.**	**5050.**	**4760.**	**4460.**	**4350.**
Stddev	6.	37.	31.	13.	5.	14.	5.	42.	25.	50.	21.	21.
%RSD	1.32	.729	.623	.271	.961	.287	1.02	.764	.497	1.06	.468	.491
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068	Se2062	Tl1908	V_2908	Zn2062
Avg	**5530.**	**4880.**	**4720.**	**4940.**	**5120.**	**4810.**	**4710.**	**5400.**	**5010.**
Stddev	8.	49.	46.	75.	16.	16.	51.	81.	48.
%RSD	.139	.995	.980	1.51	.304	.339	1.08	1.50	.949
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**50865.**
Stddev	402.
%RSD	.79055

Sample Name: ccv2 Acquired: 12/03/2010 19:34:21 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**52.4**	**469.**	**519.**	**537.**	**53.0**	**538.**	**51.9**	**524.**	**520.**	**540.**	**460.**	**539.**
Stddev	.8	1.	15.	3.	.4	5.	.2	2.	6.	1.	2.	1.
%RSD	1.53	.147	2.84	.635	.666	.854	.322	.434	1.06	.196	.506	.191
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se2062	Tl1908	V_2924	Zn2138
Avg	**518.**	**511.**	**535.**	**530.**	**521.**	**479.**	**547.**	**526.**	**517.**
Stddev	3.	3.	2.	4.	6.	44.	4.	2.	3.
%RSD	.578	.509	.442	.838	1.12	9.27	.765	.440	.536
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**49522.**
Stddev	261.
%RSD	.52651

Sample Name: ccb Acquired: 12/03/2010 19:45:02 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1890	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**-.098**	**8.58**	**-4.85**	**1.04**	**.049**	**12.9**	**-.118**	**.673**	**1.03**	**.822**	**11.1**	**4.78**
Stddev	.643	1.75	3.80	.49	.091	.1	.205	.081	.44	.256	1.2	.02
%RSD	657.	20.4	78.3	47.0	186.	.432	174.	12.0	43.0	31.1	10.8	.351
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**.906**	**.500**	**.605**	**1.32**	**-3.94**	**-10.8**	**4.51**	**.063**	**-.917**
Stddev	.265	.289	.003	.91	4.50	11.0	3.13	.363	.014
%RSD	29.2	57.9	.431	69.3	114.	102.	69.3	574.	1.53
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**49684.**
Stddev	326.
%RSD	.65560

Sample Name: mss870189 Acquired: 12/03/2010 19:50:32 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2388	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**45.3**	**311000.**	**1920.**	**4280.**	**56.4**	**163000.**	**45.4**	**602.**	**1800.**	**385.**
Stddev	.6	228.	31.	22.	.1	312.	.4	15.	7.	2.
%RSD	1.39	.073	1.62	.503	.206	.192	.845	2.48	.384	.592

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2169	Sb2068	Se2062	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**507000.**	**79400.**	**26700.**	**24.1**	**635.**	**1030.**	**1390.**	**1540.**	**1450.**	**842.**
Stddev	6580.	248.	52.	.5	4.	16.	15.	41.	11.	9.
%RSD	1.30	.313	.194	2.11	.640	1.52	1.05	2.68	.750	1.05

Elem	Zn2062
Units	ug/L
Avg	**1500.**
Stddev	14.
%RSD	.938

Int. Std.	Y_3600
Units	Cts/S
Avg	**49782.**
Stddev	422.
%RSD	.84827

Sample Name: msds870189 Acquired: 12/03/2010 19:56:05 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2388	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**42.9**	**300000.**	**1880.**	**4030.**	**54.4**	**155000.**	**41.8**	**539.**	**1880.**	**380.**
Stddev	1.9	8080.	39.	116.	1.4	4420.	.5	13.	38.	3.
%RSD	4.45	2.69	2.09	2.87	2.59	2.85	1.20	2.46	2.00	.817

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2169	Sb2068	Se2062	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**459000.**	**72100.**	**26000.**	**23.8**	**603.**	**1180.**	**1500.**	**1480.**	**1370.**	**810.**
Stddev	19800.	2150.	667.	1.7	10.	16.	27.	91.	14.	13.
%RSD	4.31	2.98	2.57	6.99	1.65	1.38	1.80	6.12	.995	1.66

Elem	Zn2062
Units	ug/L
Avg	**1450.**
Stddev	24.
%RSD	1.67

Int. Std.	Y_3600
Units	Cts/S
Avg	**50462.**
Stddev	969.
%RSD	1.9210

Sample Name: pdss870189 Acquired: 12/03/2010 20:01:38 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2388	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**81.3**	**373000.**	**3590.**	**5690.**	**95.0**	**408000.**	**71.1**	**857.**	**2130.**	**550.**
Stddev	.9	792.	11.	23.	.3	3070.	.6	16.	6.	4.
%RSD	1.13	.212	.313	.398	.318	.754	.867	1.90	.280	.809

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2169	Sb2068	Se2062	Tl1908	V_2908
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**479000.**	**168000.**	**43400.**	**21.6**	**924.**	**1460.**	**2460.**	**3140.**	**2640.**	**1270.**
Stddev	10100.	2210.	105.	1.2	9.	15.	27.	55.	10.	14.
%RSD	2.11	1.31	.241	5.36	.987	1.05	1.10	1.74	.363	1.07

Elem	Zn2062
Units	ug/L
Avg	**1690.**
Stddev	18.
%RSD	1.07

Int. Std.	Y_3600
Units	Cts/S
Avg	**48697.**
Stddev	420.
%RSD	.86221

Sample Name: 870190 Acquired: 12/03/2010 20:07:13 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-1.66**	**219000.**	**190.**	**1680.**	**10.7**	**27700.**	**3.39**	**180.**	**1850.**	**236.**
Stddev	.98	228.	20.	8.	.1	14.	.14	1.	19.	1.
%RSD	58.7	.104	10.6	.484	.764	.051	4.29	.323	1.04	.383

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**347000.**	**27500.**	**29400.**	**27.3**	**250.**	**579.**	**47.2**	**23.7**	**28.0**	**453.**
Stddev	5900.	347.	24.	.4	2.	2.	3.8	5.1	7.6	3.
%RSD	1.70	1.26	.080	1.59	.853	.354	8.02	21.4	27.1	.566

Elem	Zn2062
Units	ug/L
Avg	**1030.**
Stddev	4.
%RSD	.383

Int. Std.	Y_3600
Units	Cts/S
Avg	**50984.**
Stddev	169.
%RSD	.33123

Sample Name: 870191 Acquired: 12/03/2010 20:12:55 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-1.21**	**204000.**	**291.**	**1540.**	**11.8**	**147000.**	**3.97**	**153.**	**704.**	**244.**
Stddev	.46	779.	7.	8.	.1	508.	.07	2.	2.	2.
%RSD	38.3	.382	2.47	.548	.965	.345	1.64	1.03	.318	.789

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**299000.**	**42400.**	**18800.**	**20.2**	**316.**	**778.**	**27500.**	**-12.9**	**8.70**	**328.**
Stddev	2990.	373.	45.	.8	3.	8.	258.	3.8	4.82	2.
%RSD	1.00	.882	.240	3.90	.953	.986	.938	29.9	55.4	.572

Elem	Zn2062
Units	ug/L
Avg	**1360.**
Stddev	10.
%RSD	.732

Int. Std.	Y_3600
Units	Cts/S
Avg	**50561.**
Stddev	346.
%RSD	.68394

Sample Name: 870192 Acquired: 12/03/2010 20:18:30 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1.52**	**237000.**	**195.**	**2100.**	**13.8**	**157000.**	**5.17**	**164.**	**610.**	**174.**
Stddev	.52	1330.	1.	7.	.2	1060.	.24	2.	6.	3.
%RSD	34.3	.560	.439	.317	1.24	.676	4.72	1.19	.981	1.45

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**376000.**	**46000.**	**31900.**	**25.8**	**222.**	**493.**	**493.**	**23.9**	**1.48**	**449.**
Stddev	2360.	673.	219.	1.6	3.	3.	9.	9.8	11.2	6.
%RSD	.627	1.46	.686	6.22	1.37	.686	1.72	41.1	756.	1.39

Elem	Zn2062
Units	ug/L
Avg	**1350.**
Stddev	17.
%RSD	1.28

Int. Std.	Y_3600
Units	Cts/S
Avg	**50139.**
Stddev	572.
%RSD	1.1405

Sample Name: 870193 Acquired: 12/03/2010 20:24:11 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**3.84**	**254000.**	**186.**	**2370.**	**12.6**	**83600.**	**7.60**	**188.**	**2630.**	**212.**
Stddev	1.13	10100.	17.	90.	.5	3390.	.28	6.	110.	7.
%RSD	29.4	3.96	8.95	3.81	4.33	4.05	3.71	3.25	4.17	3.31

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**451000.**	**38900.**	**29500.**	**31.4**	**285.**	**465.**	**52.6**	**36.0**	**.149**	**479.**
Stddev	19200.	1470.	1220.	2.0	9.	15.	1.5	13.4	5.59	15.
%RSD	4.26	3.79	4.13	6.31	3.31	3.18	2.85	37.1	3760.	3.16

Elem	Zn2062
Units	ug/L
Avg	**2050.**
Stddev	63.
%RSD	3.09

Int. Std.	Y_3600
Units	Cts/S
Avg	**49110.**
Stddev	1553.
%RSD	3.1618

Sample Name: 870194 Acquired: 12/03/2010 20:29:49 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**2.42**	**214000.**	**200.**	**2050.**	**13.6**	**115000.**	**6.47**	**188.**	**1870.**	**232.**
Stddev	.17	677.	8.	5.	.1	410.	.15	1.	6.	1.
%RSD	7.18	.317	3.91	.253	.981	.356	2.27	.293	.343	.423

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**428000.**	**46000.**	**21600.**	**28.1**	**341.**	**481.**	**45.0**	**45.9**	**7.99**	**429.**
Stddev	2570.	202.	74.	1.1	2.	4.	3.5	14.2	5.34	6.
%RSD	.600	.440	.342	3.86	.509	.885	7.89	30.9	66.8	1.49

Elem	Zn2062
Units	ug/L
Avg	**1110.**
Stddev	9.
%RSD	.846

Int. Std.	Y_3600
Units	Cts/S
Avg	**50139.**
Stddev	326.
%RSD	.64972

Sample Name: 870195 Acquired: 12/03/2010 20:35:26 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1.19**	**221000.**	**202.**	**2170.**	**14.6**	**170000.**	**5.39**	**178.**	**2180.**	**245.**
Stddev	.58	2700.	9.	24.	.2	1840.	.20	2.	20.	5.
%RSD	48.7	1.22	4.69	1.10	1.59	1.09	3.77	1.32	.929	1.89

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**412000.**	**51900.**	**21800.**	**28.4**	**347.**	**506.**	**53.4**	**22.1**	**5.46**	**419.**
Stddev	7210.	511.	207.	1.1	5.	5.	4.9	19.8	4.73	5.
%RSD	1.75	.984	.948	3.79	1.45	1.07	9.16	89.2	86.6	1.14

Elem	Zn2062
Units	ug/L
Avg	**1070.**
Stddev	14.
%RSD	1.26

Int. Std.	Y_3600
Units	Cts/S
Avg	**50792.**
Stddev	623.
%RSD	1.2266

Sample Name: 870196 Acquired: 12/03/2010 20:41:03 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-.373**	**202000.**	**191.**	**1880.**	**13.7**	**150000.**	**4.57**	**182.**	**2250.**	**263.**
Stddev	.022	1400.	21.	16.	.1	809.	.12	1.	17.	.
%RSD	5.84	.695	10.9	.836	.947	.539	2.68	.293	.751	.176

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**377000.**	**43200.**	**21600.**	**25.9**	**418.**	**406.**	**210.**	**26.6**	**2.26**	**380.**
Stddev	4800.	396.	136.	.6	1.	3.	3.	4.3	6.59	2.
%RSD	1.27	.916	.631	2.15	.318	.816	1.60	16.0	292.	.492

Elem	Zn2062
Units	ug/L
Avg	**1260.**
Stddev	4.
%RSD	.316

Int. Std.	Y_3600
Units	Cts/S
Avg	**50721.**
Stddev	37.
%RSD	.07231

Sample Name: ccv1 Acquired: 12/03/2010 20:46:39 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be2348	Ca3179	Cd2265	Co2388	Cr2835	Cu2247	Fe2395	Mg2802
Avg	**476.**	**5000.**	**4930.**	**4860.**	**499.**	**4760.**	**436.**	**5310.**	**4960.**	**4710.**	**4540.**	**4400.**
Stddev	4.	25.	32.	23.	2.	17.	3.	9.	10.	34.	52.	26.
%RSD	.873	.502	.655	.482	.345	.365	.680	.176	.209	.730	1.15	.585
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068	Se2062	Tl1908	V_2908	Zn2062
Avg	**5360.**	**4820.**	**4660.**	**4920.**	**5100.**	**4700.**	**4650.**	**5330.**	**4950.**
Stddev	35.	31.	32.	33.	17.	58.	49.	10.	27.
%RSD	.647	.652	.694	.674	.338	1.23	1.05	.181	.543
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**50232.**
Stddev	213.
%RSD	.42374

Sample Name: ccv2 Acquired: 12/03/2010 20:51:50 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1890	Ba4554	Be3130	Ca3968	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**52.8**	**457.**	**513.**	**523.**	**49.3**	**526.**	**45.7**	**484.**	**457.**	**494.**	**429.**	**517.**
Stddev	.4	6.	14.	1.	.2	1.	.4	3.	3.	5.	1.	.
%RSD	.761	1.25	2.67	.178	.473	.137	.971	.624	.555	1.02	.270	.029
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se2062	Tl1908	V_2924	Zn2138
Avg	**464.**	**497.**	**514.**	**519.**	**544.**	**508.**	**498.**	**522.**	**504.**
Stddev	4.	2.	3.	2.	3.	40.	4.	2.	2.
%RSD	.872	.376	.658	.363	.639	7.83	.732	.335	.383
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**49939.**
Stddev	300.
%RSD	.60076

Sample Name: ccb Acquired: 12/03/2010 21:02:32 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1890	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**.105**	**10.6**	**-5.22**	**1.15**	**.082**	**13.8**	**-.034**	**.676**	**1.02**	**.570**	**14.0**	**5.20**
Stddev	.133	.7	11.3	.06	.091	.3	.161	.215	.43	.361	2.7	.16
%RSD	126.	6.35	217.	5.45	110.	1.99	479.	31.8	41.9	63.4	19.6	3.14
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**.789**	**.237**	**.836**	**.807**	**-2.14**	**4.30**	**3.99**	**.176**	**-1.03**
Stddev	.349	.926	.649	.183	.49	9.88	2.45	.192	.11
%RSD	44.3	391.	77.7	22.7	23.0	230.	61.4	109.	10.4
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**49635.**
Stddev	599.
%RSD	1.2061

Sample Name: 870197 Acquired: 12/03/2010 21:08:03 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**3.45**	**277000.**	**182.**	**3360.**	**22.7**	**567000.**	**5.15**	**159.**	**2320.**	**226.**
Stddev	.74	350.	4.	11.	.2	3450.	.32	1.	3.	2.
%RSD	21.4	.127	2.15	.329	.675	.609	6.12	.677	.130	.868

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**393000.**	**107000.**	**39500.**	**26.8**	**426.**	**486.**	**71.2**	**36.9**	**2.58**	**356.**
Stddev	3990.	900.	83.	.3	2.	5.	2.8	7.6	6.54	4.
%RSD	1.02	.843	.209	1.16	.548	.967	3.89	20.6	253.	1.23

Elem	Zn2062
Units	ug/L
Avg	**1150.**
Stddev	7.
%RSD	.576

Int. Std.	Y_3600
Units	Cts/S
Avg	**49235.**
Stddev	268.
%RSD	.54372

Sample Name: 870208 Acquired: 12/03/2010 21:13:47 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**3.35**	**206000.**	**160.**	**2070.**	**10.6**	**68900.**	**5.31**	**151.**	**2300.**	**181.**
Stddev	.45	389.	17.	6.	.0	266.	.20	1.	16.	1.
%RSD	13.3	.189	10.5	.283	.251	.386	3.75	.619	.712	.740

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**387000.**	**36900.**	**27000.**	**28.8**	**370.**	**464.**	**51.5**	**37.1**	**2.14**	**417.**
Stddev	2520.	243.	61.	.6	2.	6.	3.9	10.3	4.57	5.
%RSD	.652	.660	.225	2.17	.615	1.32	7.60	27.8	214.	1.08

Elem	Zn2138
Units	ug/L
Avg	**933.**
Stddev	8.
%RSD	.860

Int. Std.	Y_3600
Units	Cts/S
Avg	**49985.**
Stddev	349.
%RSD	.69793

Sample Name: 870209 Acquired: 12/03/2010 21:19:30 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**3.58**	**220000.**	**305.**	**2570.**	**15.8**	**196000.**	**6.68**	**194.**	**2340.**	**275.**
Stddev	.32	6630.	2.	79.	.5	6030.	.51	4.	66.	6.
%RSD	8.79	3.02	.742	3.09	3.36	3.07	7.67	2.19	2.82	2.13

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**448000.**	**53100.**	**29400.**	**29.9**	**500.**	**862.**	**16600.**	**34.6**	**7.94**	**412.**
Stddev	16600.	1680.	900.	1.2	13.	19.	409.	5.3	5.57	6.
%RSD	3.71	3.16	3.06	4.07	2.57	2.20	2.47	15.4	70.2	1.57

Elem	Zn2062
Units	ug/L
Avg	**1540.**
Stddev	36.
%RSD	2.33

Int. Std.	Y_3600
Units	Cts/S
Avg	**49711.**
Stddev	1112.
%RSD	2.2366

Sample Name: 870210 Acquired: 12/03/2010 21:25:03 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1.23**	**195000.**	**202.**	**2050.**	**15.9**	**291000.**	**3.66**	**146.**	**2090.**	**220.**
Stddev	.28	2640.	14.	16.	.2	1430.	.10	2.	34.	5.
%RSD	22.4	1.35	6.98	.756	1.41	.490	2.67	1.65	1.65	2.32

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**339000.**	**58800.**	**24800.**	**21.6**	**372.**	**377.**	**408.**	**26.2**	**15.4**	**311.**
Stddev	5680.	288.	415.	.6	4.	6.	12.	3.7	2.6	5.
%RSD	1.67	.490	1.67	2.63	1.17	1.70	2.97	13.9	16.8	1.62

Elem	Zn2138
Units	ug/L
Avg	**951.**
Stddev	11.
%RSD	1.12

Int. Std.	Y_3600
Units	Cts/S
Avg	**50835.**
Stddev	550.
%RSD	1.0822

Sample Name: 870211 Acquired: 12/03/2010 21:30:47 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1.80**	**313000.**	**183.**	**3440.**	**20.7**	**430000.**	**.509**	**146.**	**1240.**	**169.**
Stddev	.65	12600.	4.	165.	.9	14900.	.931	13.	46.	15.
%RSD	36.0	4.03	2.41	4.79	4.50	3.46	183.	8.58	3.67	9.04

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**406000.**	**74200.**	**47000.**	**26.8**	**297.**	**427.**	**26.9**	**34.5**	**8.39**	**497.**
Stddev	20900.	3220.	1820.	3.2	23.	32.	3.6	8.3	6.16	7.
%RSD	5.15	4.34	3.88	11.8	7.70	7.40	13.4	24.1	73.5	1.34

Elem	Zn2138
Units	ug/L
Avg	**967.**
Stddev	83.
%RSD	8.55

Int. Std.	Y_3600
Units	Cts/S
Avg	**50288.**
Stddev	69.
%RSD	.13709

Sample Name: 870212 Acquired: 12/03/2010 21:36:29 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-2.41**	**208000.**	**201.**	**2020.**	**11.3**	**73300.**	**3.83**	**165.**	**2020.**	**214.**
Stddev	.65	1610.	5.	25.	.1	515.	.25	.	16.	2.
%RSD	26.9	.774	2.64	1.25	.643	.702	6.61	.163	.791	.821

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**346000.**	**29500.**	**25500.**	**22.6**	**244.**	**640.**	**2220.**	**-2.34**	**12.5**	**419.**
Stddev	6850.	591.	222.	.9	1.	2.	18.	11.1	3.1	2.
%RSD	1.98	2.00	.874	3.92	.273	.340	.785	473.	24.8	.538

Elem	Zn2138
Units	ug/L
Avg	**975.**
Stddev	4.
%RSD	.437

Int. Std.	Y_3600
Units	Cts/S
Avg	**50647.**
Stddev	136.
%RSD	.26871

Sample Name: 870213 Acquired: 12/03/2010 21:42:08 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-2.16**	**231000.**	**173.**	**1700.**	**11.6**	**69100.**	**3.61**	**164.**	**1930.**	**229.**
Stddev	1.12	3610.	26.	37.	.2	1060.	.12	1.	17.	2.
%RSD	51.7	1.57	14.9	2.16	2.08	1.53	3.31	.536	.883	.790

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**340000.**	**32400.**	**20600.**	**24.8**	**348.**	**387.**	**77.7**	**.142**	**7.24**	**464.**
Stddev	10500.	1100.	255.	.9	3.	4.	3.0	6.04	1.41	.
%RSD	3.10	3.40	1.24	3.55	.745	.994	3.85	4250.	19.5	.099

Elem	Zn2062
Units	ug/L
Avg	**1230.**
Stddev	8.
%RSD	.635

Int. Std.	Y_3600
Units	Cts/S
Avg	**50636.**
Stddev	364.
%RSD	.71807

Sample Name: 870214 Acquired: 12/03/2010 21:47:49 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1.56**	**255000.**	**178.**	**2830.**	**18.2**	**323000.**	**5.14**	**165.**	**1980.**	**249.**
Stddev	.70	1310.	9.	20.	.1	3650.	.09	1.	19.	3.
%RSD	44.7	.514	4.79	.717	.276	1.13	1.76	.520	.936	1.17

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**359000.**	**61600.**	**35400.**	**27.5**	**416.**	**406.**	**35.7**	**27.5**	**3.86**	**432.**
Stddev	9870.	721.	248.	.5	2.	1.	2.5	13.8	12.0	2.
%RSD	2.75	1.17	.700	1.91	.375	.316	7.07	50.2	311.	.480

Elem	Zn2062
Units	ug/L
Avg	**922.**
Stddev	4.
%RSD	.442

Int. Std.	Y_3600
Units	Cts/S
Avg	**49680.**
Stddev	196.
%RSD	.39408

Sample Name: 870215 Acquired: 12/03/2010 21:53:32 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**3.46**	**213000.**	**206.**	**2190.**	**15.6**	**258000.**	**5.21**	**162.**	**1830.**	**216.**
Stddev	.25	5270.	13.	46.	.4	5830.	.07	2.	53.	3.
%RSD	7.19	2.48	6.19	2.08	2.27	2.26	1.31	1.39	2.87	1.56

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**400000.**	**58800.**	**27000.**	**25.2**	**363.**	**594.**	**7170.**	**36.6**	**1.76**	**365.**
Stddev	7760.	618.	754.	.4	6.	9.	147.	1.0	6.79	4.
%RSD	1.94	1.05	2.79	1.47	1.72	1.57	2.05	2.66	386.	1.20

Elem	Zn2062
Units	ug/L
Avg	**1000.**
Stddev	18.
%RSD	1.77

Int. Std.	Y_3600
Units	Cts/S
Avg	**49636.**
Stddev	818.
%RSD	1.6490

Sample Name: 870216 Acquired: 12/03/2010 21:59:14 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**3.75**	**232000.**	**189.**	**2260.**	**13.5**	**174000.**	**5.39**	**162.**	**1670.**	**199.**
Stddev	.71	2450.	12.	22.	.2	1730.	.12	2.	24.	2.
%RSD	18.9	1.06	6.56	.963	1.44	.993	2.20	1.07	1.42	.993

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**425000.**	**53700.**	**23500.**	**26.4**	**333.**	**376.**	**171.**	**36.1**	**5.85**	**420.**
Stddev	9550.	483.	259.	.4	3.	.	2.	14.1	10.6	4.
%RSD	2.25	.899	1.10	1.41	.835	.038	1.43	38.9	182.	.992

Elem	Zn2062
Units	ug/L
Avg	**1050.**
Stddev	12.
%RSD	1.11

Int. Std.	Y_3600
Units	Cts/S
Avg	**49606.**
Stddev	540.
%RSD	1.0893

Sample Name: ccv1 Acquired: 12/03/2010 22:04:52 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be2348	Ca3179	Cd2265	Co2388	Cr2835	Cu2247	Fe2395	Mg2790
Avg	**481.**	**5220.**	**4970.**	**5230.**	**516.**	**4900.**	**483.**	**5240.**	**4970.**	**5030.**	**5090.**	**4890.**
Stddev	8.	41.	55.	24.	5.	31.	4.	32.	28.	48.	56.	59.
%RSD	1.67	.788	1.10	.466	.900	.634	.908	.617	.554	.948	1.09	1.20
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068	Se2062	Tl1908	V_2908	Zn2062
Avg	**5200.**	**4940.**	**5000.**	**5080.**	**4890.**	**5020.**	**4930.**	**5170.**	**4920.**
Stddev	21.	45.	46.	35.	46.	101.	61.	70.	40.
%RSD	.399	.900	.921	.678	.930	2.02	1.24	1.35	.820
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**49887.**
Stddev	384.
%RSD	.77041

Sample Name: ccv2 Acquired: 12/03/2010 22:10:03 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**53.1**	**460.**	**509.**	**498.**	**49.1**	**500.**	**49.7**	**501.**	**485.**	**519.**	**445.**	**511.**
Stddev	.8	6.	10.	6.	.6	7.	.3	3.	6.	3.	4.	5.
%RSD	1.47	1.25	2.00	1.13	1.21	1.47	.629	.651	1.29	.508	.995	1.05
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se2062	Tl1908	V_2924	Zn2138
Avg	**498.**	**494.**	**513.**	**516.**	**510.**	**539.**	**525.**	**515.**	**503.**
Stddev	2.	6.	5.	5.	8.	50.	5.	7.	6.
%RSD	.379	1.19	.924	.957	1.53	9.24	.883	1.40	1.14
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**50619.**
Stddev	552.
%RSD	1.0895

Sample Name: ccb Acquired: 12/03/2010 22:20:45 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

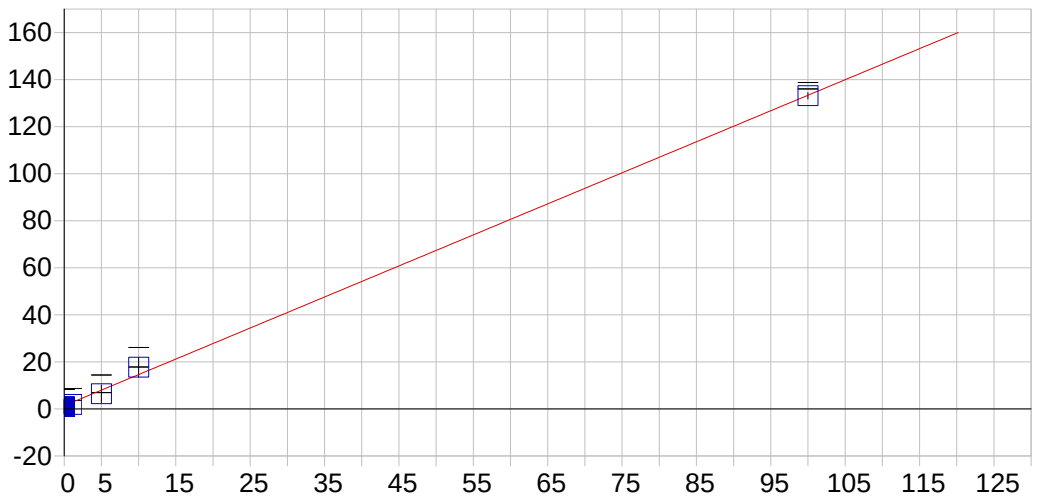
Elem	Ag3280	Al1670	As1890	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**-.067**	**10.9**	**-5.26**	**1.10**	**.162**	**14.9**	**-.173**	**.683**	**.754**	**.150**	**15.3**	**5.69**
Stddev	.473	.6	10.3	.25	.087	.1	.115	.198	.448	.296	.2	.03
%RSD	706.	5.26	196.	22.9	53.7	.417	66.4	29.0	59.5	198.	1.35	.542
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**1.24**	**1.08**	**.780**	**.485**	**-3.02**	**1.06**	**7.51**	**.117**	**-.790**
Stddev	.39	.17	.199	1.18	4.86	9.78	1.83	.837	.058
%RSD	31.0	15.6	25.5	243.	161.	918.	24.3	717.	7.40
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**50419.**
Stddev	211.
%RSD	.41890

Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)	Correlation	Std Error of Est	Predicted MDL
Ag 328.068 {103}	12/09/2010 14:56:26	12/09/2010 14:56:26	Linear	None	1.387742	1.319875	0.000000	1.000000	0.999491	2.096624	3.549819
Ag 338.289 {100}	12/09/2010 14:14:07	12/09/2010 14:14:07	Linear	None	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	-1.000000
Al 167.079 {502}	12/09/2010 15:01:23	12/09/2010 15:01:23	Linear	None	0.492931	0.073097	0.000000	1.000000	0.999984	0.187572	3.257682
Al 309.271 {109}	12/09/2010 15:17:48	12/09/2010 15:17:48	Linear	1/Conc	29.555062	0.212418	0.000000	1.000000	0.999812	1.937608	19.087408
Al 396.152 { 85}	12/09/2010 15:29:24	12/09/2010 15:29:24	Full Fit	1/Conc	7.763901	0.516818	-0.000000	1.010000	0.999967	9.889395	12.295726
As 189.042 {479}	12/09/2010 15:06:47	12/09/2010 15:06:47	Linear	1/Conc	-0.208401	0.019708	0.000000	1.000000	0.999717	0.022067	15.192265
As 193.759 {474}	12/09/2010 15:01:23	12/09/2010 15:01:23	Linear	None	-0.266421	0.028282	0.000000	1.000000	0.999818	0.268817	14.794132
Ba 455.403 { 74}	12/09/2010 14:56:26	12/09/2010 14:56:26	Linear	1/Conc	-0.930468	28.243410	0.000000	1.000000	0.999731	0.334359	0.364729
Ba 493.409 { 68}	12/09/2010 15:06:47	12/09/2010 15:06:47	Linear	1/Conc	1078.60991	34.920861	0.000000	1.000000	0.999985	35.150037	0.556132
Be 234.861 {144}	12/09/2010 15:01:23	12/09/2010 15:01:23	Linear	None	-0.006779	2.619928	0.000000	1.000000	1.000000	0.734160	0.493099
Be 313.042 {108}	12/09/2010 15:01:23	12/09/2010 15:01:23	Linear	1/Conc	4.333082	41.674118	0.000000	1.000000	0.999957	0.242198	0.099827
Ca 317.933 {106}	12/09/2010 15:29:24	12/09/2010 15:29:24	Full Fit	1/Conc	304.915696	0.550779	-0.000000	0.990000	0.999999	1.013332	3.872254
Ca 393.366 { 86}	12/09/2010 15:01:23	12/09/2010 15:01:23	Linear	None	2781.01129	93.451675	0.000000	1.000000	0.999471	2424.11408	0.057420
Ca 396.847 { 85}	12/09/2010 15:06:47	12/09/2010 15:06:47	Linear	1/Conc	1610.72624	32.690719	0.000000	1.000000	0.999435	51.750985	0.110952
Cd 226.502 {449}	12/09/2010 15:01:23	12/09/2010 15:01:23	Linear	1/Conc	0.031189	4.281043	0.000000	1.000000	0.999936	0.029636	0.141983
Cd 228.802 {447}	12/09/2010 15:01:23	12/09/2010 15:01:23	Linear	None	4.577199	3.611810	0.000000	1.000000	0.999998	5.315738	0.174985
Co 228.616 {447}	12/09/2010 15:01:23	12/09/2010 15:01:23	Linear	1/Conc	0.143844	2.052087	0.000000	1.000000	0.999952	0.020614	0.258407
Co 238.892 {141}	12/09/2010 15:06:47	12/09/2010 15:06:47	Linear	1/Conc	0.911885	0.217562	0.000000	1.000000	0.999978	0.260835	5.464256
Cr 267.716 {126}	12/09/2010 15:01:23	12/09/2010 15:01:23	Linear	1/Conc	0.830505	0.622393	0.000000	1.000000	0.997273	0.057875	3.335292
Cr 283.563 {119}	12/09/2010 15:12:13	12/09/2010 15:12:13	Linear	1/Conc	2.350355	0.837024	0.000000	1.000000	0.999994	0.273051	2.812662
Cu 224.700 {450}	12/09/2010 15:06:47	12/09/2010 15:06:47	Linear	1/Conc	5.179590	0.801614	0.000000	1.000000	0.999785	0.146969	0.678355
Cu 324.754 {104}	12/09/2010 15:12:13	12/09/2010 15:12:13	Linear	None	126.323575	0.219699	0.000000	1.000000	0.999997	34.203226	13.246221
Cu 327.396 {103}	12/09/2010 15:01:23	12/09/2010 15:01:23	Linear	None	5.805320	0.405013	0.000000	1.000000	0.999968	1.431674	11.871052
Fe 234.349 {144}	12/09/2010 15:29:24	12/09/2010 15:29:24	Full Fit	None	5.699243	0.072038	-0.000000	0.990000	1.000000	6.164771	11.076523
Fe 239.562 {141}	12/09/2010 15:06:47	12/09/2010 15:06:47	Linear	None	5.586650	0.174659	0.000000	1.000000	0.999992	5.438125	5.469373
Fe 259.940 {130}	12/09/2010 15:01:23	12/09/2010 15:01:23	Linear	None	4.225604	0.645523	0.000000	1.000000	0.999981	1.997258	2.917910
Mg 279.079 {121}	12/10/2010 07:01:40	12/09/2010 15:29:24	Full Fit	1/Conc	0.150746	0.013268	-0.000000	1.020000	0.999968	0.343773	86.334352
Mg 279.553 {121}	12/09/2010 14:51:15	12/09/2010 14:51:15	Linear	None	32.147694	7.457203	0.000000	1.000000	0.995120	19.563216	0.159353
Mg 280.270 {120}	12/09/2010 15:06:47	12/09/2010 15:06:47	Linear	1/Conc	60.980935	10.237574	0.000000	1.000000	0.999893	27.213016	0.148188
Mn 257.610 {131}	12/09/2010 15:06:47	12/09/2010 15:06:47	Linear	1/Conc	0.592726	3.829402	0.000000	1.000000	0.999908	0.197048	0.503904
Mn 259.373 {130}	12/09/2010 15:12:13	12/09/2010 15:12:13	Linear	1/Conc	1.811593	3.018035	0.000000	1.000000	0.999923	17.641198	0.770488
Mo 202.030 {467}	12/09/2010 15:01:23	12/09/2010 15:01:23	Linear	None	0.491792	0.458041	0.000000	1.000000	0.999999	0.200376	0.775578
Mo 203.844 {465}	12/09/2010 15:01:23	12/09/2010 15:01:23	Linear	None	0.559627	0.234543	0.000000	1.000000	0.999999	0.141078	1.558272
Mo 204.598 {465}	12/09/2010 15:06:47	12/09/2010 15:06:47	Linear	1/Conc	0.428810	0.336474	0.000000	1.000000	0.999901	0.144580	1.191711
Ni 221.647 {452}	12/09/2010 15:06:47	12/09/2010 15:06:47	Linear	1/Conc	-0.133583	1.412114	0.000000	1.000000	0.999634	1.799867	0.500960
Ni 231.604 {445}	12/09/2010 15:01:23	12/09/2010 15:01:23	Linear	None	0.339264	1.050200	0.000000	1.000000	0.999987	1.756972	0.582053
Pb 216.999 {455}	12/09/2010 15:12:13	12/09/2010 15:12:13	Full Fit	None	0.408394	0.093517	0.000000	0.960000	1.000000	0.000000	6.306988
Pb 220.353 {453}	12/09/2010 15:01:23	12/09/2010 15:01:23	Linear	1/Conc	-0.000003	0.000008	0.000000	1.000000	0.999634	0.000001	1.729987
Sb 206.833 {463}	12/09/2010 15:06:47	12/09/2010 15:06:47	Linear	1/Conc	-0.000003	0.000003	0.000000	1.000000	0.999935	0.000000	3.415680

	Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)	Correlation	Std Error of Est	Predicted MDL
	Sb 217.581 {455}	12/09/2010 15:06:47	12/09/2010 15:06:47	Linear	1/Conc	-0.108791	0.179114	0.000000	1.000000	0.999963	0.019984	3.632934
	Se 196.090 {472}	12/09/2010 15:06:47	12/09/2010 15:06:47	Linear	1/Conc	0.199523	0.031951	0.000000	1.000000	0.999611	0.011524	10.087391
	Se 206.279 {463}	12/09/2010 15:06:47	12/09/2010 15:06:47	Linear	None	0.238662	0.008442	0.000000	1.000000	0.999968	0.524368	48.233961
	Tl 190.856 {477}	12/09/2010 15:06:47	12/09/2010 15:06:47	Linear	None	-0.000001	0.000001	0.000000	1.000000	0.999963	0.000004	7.194077
	Tl 276.787 {122}	12/09/2010 15:06:47	12/09/2010 15:06:47	Linear	None	-0.000009	0.000000	0.000000	1.000000	0.999944	0.000029	133.950114
	V 290.882 {116}	12/09/2010 15:06:47	12/09/2010 15:06:47	Linear	None	0.000331	0.000018	0.000000	1.000000	0.999998	0.000293	3.996109
	V 292.402 {115}	12/09/2010 15:01:23	12/09/2010 15:01:23	Linear	None	-0.000009	0.000015	0.000000	1.000000	0.999995	0.000019	4.392894
	Zn 206.200 {463}	12/09/2010 15:12:13	12/09/2010 15:12:13	Full Fit	None	0.000090	0.000026	-0.000000	0.970000	1.000000	0.000000	0.321901
	Zn 213.856 {458}	12/09/2010 15:01:23	12/09/2010 15:01:23	Linear	1/Conc	0.000244	0.000045	0.000000	1.000000	0.999651	0.000005	0.198099
	Y 360.073 { 94}*	12/09/2010 14:14:07	12/09/2010 14:14:07	Linear	None	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	-1.000000
	B 249.773 {135}	12/09/2010 15:01:23	12/09/2010 15:01:23	Linear	None	0.000002	0.000006	0.000000	1.000000	0.999998	0.000007	5.696604
	Li 670.784 { 50}	12/09/2010 15:01:23	12/09/2010 15:01:23	Linear	None	0.000155	0.000273	0.000000	1.000000	0.999993	0.000469	1.223928
	Na 330.298 {102}	12/09/2010 15:17:48	12/09/2010 15:17:48	Linear	1/Conc	0.000025	0.000000	0.000000	1.000000	1.000000	0.000000	2666.91158
	Si 251.611 {134}	12/09/2010 15:01:23	12/09/2010 15:01:23	Linear	None	0.000049	0.000000	0.000000	1.000000	1.000000	0.000000	321.273392
	Sr 407.771 { 83}	12/09/2010 15:06:47	12/09/2010 15:06:47	Linear	1/Conc	-0.001234	0.001338	0.000000	1.000000	0.999763	0.000112	0.087288
	Ti 334.941 {101}	12/09/2010 15:01:23	12/09/2010 15:01:23	Linear	1/Conc	0.000019	0.000076	0.000000	1.000000	0.999923	0.000004	0.905839

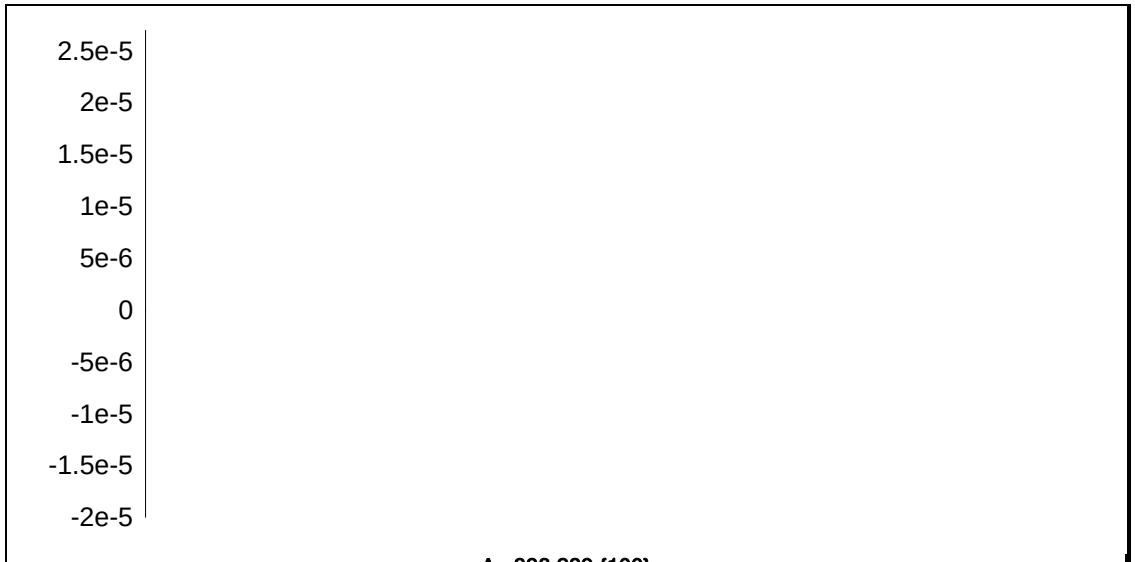


Ag 328.068 {103}

Date of Fit:	12/09/2010 14:56:26	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	1.387742	Re-Slope:	1.000000
A1 (Gain):	1.319875	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999491	Status:	OK.
Std Error of Est:	2.096624		
Predicted MDL:	3.549819		
Predicted MQL:	11.832730		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.30682	-.307	.000	.98278	3.00	1
CalibStd=100	100.00	99.832	-.168	-.168	133.15	1.37	1
CalibStd=10	10.000	12.352	2.35	23.5	17.691	4.15	1
CalibStd=1	1.0000	.33717	-.663	-66.3	1.8328	2.65	1
CalibStd=5	5.0000	3.7853	-1.21	-24.3	6.3839	3.76	1

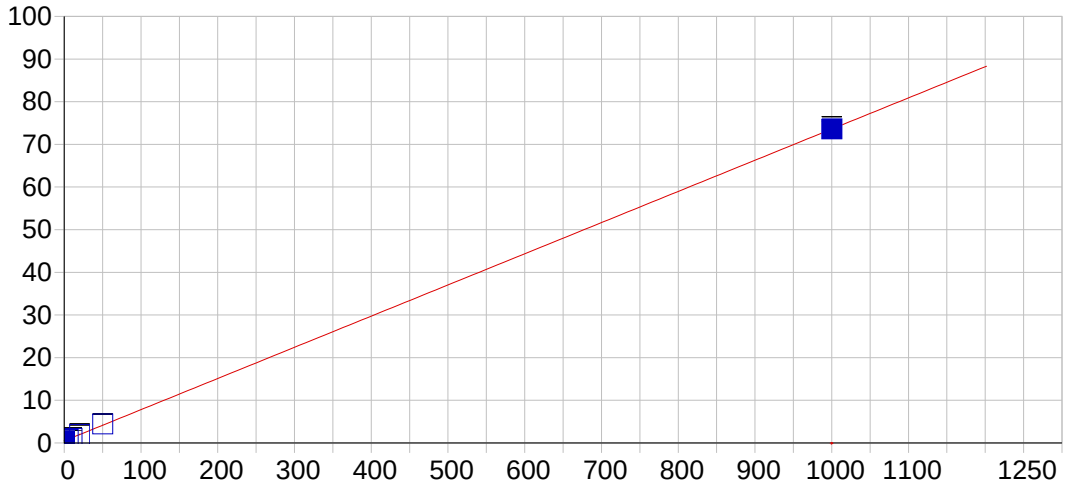


Ag 338.289 {100}

Date of Fit:	12/09/2010 14:14:07	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning Zero Gain
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00000	.000	1

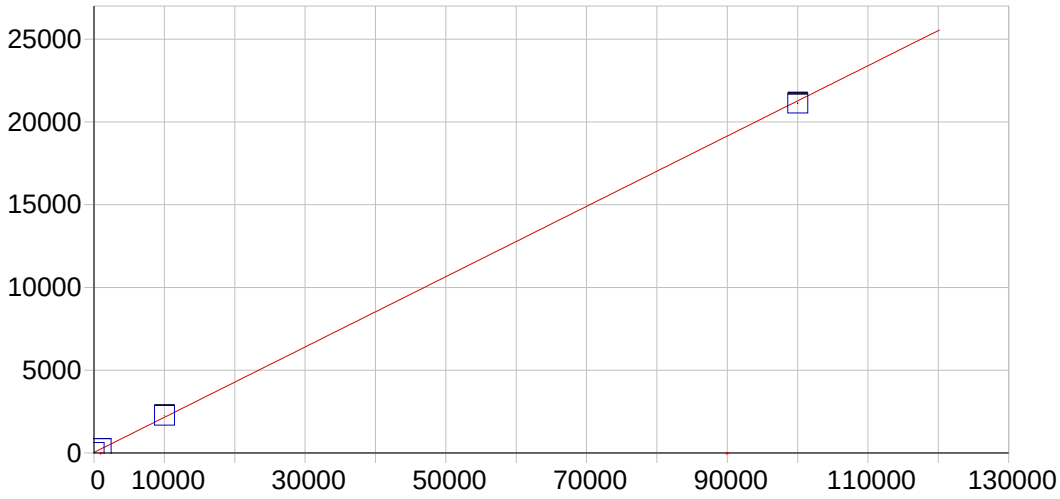


Al 167.079 {502}

Date of Fit:	12/09/2010 15:01:23	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.492931	Re-Slope:	1.000000
A1 (Gain):	0.073097	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999984	Status:	OK.
Std Error of Est:	0.187572		
Predicted MDL:	3.257682		
Predicted MQL:	10.858939		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.06283	-.063	.000	.48834	.022	1
CalibStd=100	1000.0	999.83	-.169	-.017	73.623	.527	1
CalibStd=20	20.000	20.548	.548	2.74	1.9950	.147	1
CalibStd=10	10.000	6.8969	-3.10	-31.0	.99707	.334	1
CalibStd=5	5.0000	3.8937	-1.11	-22.1	.77754	.212	1
CalibStd=50	50.000	53.893	3.89	7.79	4.4323	.028	1

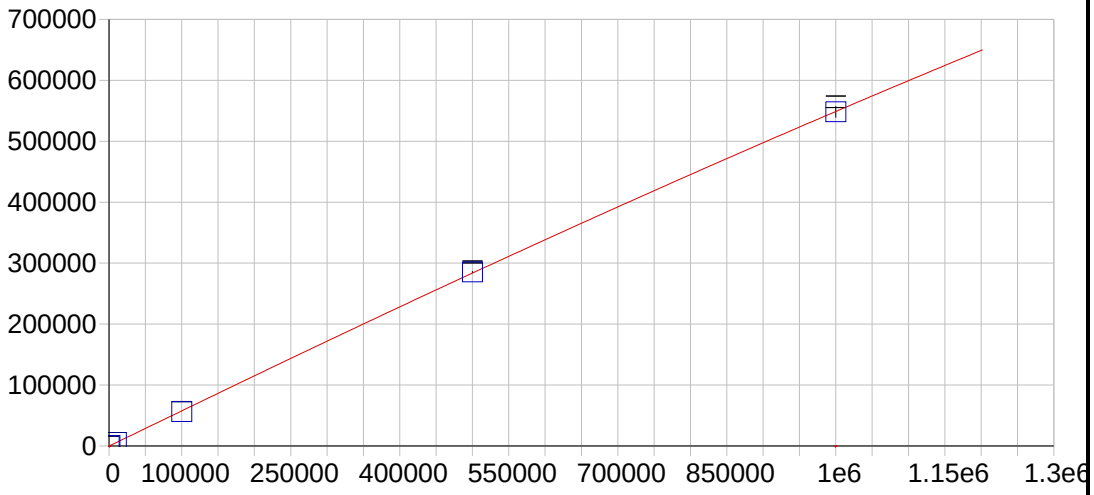


Al 309.271 {109}

Date of Fit:	12/09/2010 15:17:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	29.555062	Re-Slope:	1.000000
A1 (Gain):	0.212418	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999812	Status:	OK.
Std Error of Est:	1.937608		
Predicted MDL:	19.087408		
Predicted MQL:	63.624694		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.11728	-.117	.000	29.530	3.52	1
CalibStd=100	10000.	10576.	576.	5.76	2276.0	17.4	1
CalibStd=100	100000.	99358.	-642.	-.642	21135.	47.9	1
CalibStd=100	1000.0	1066.1	66.1	6.61	256.02	2.48	1

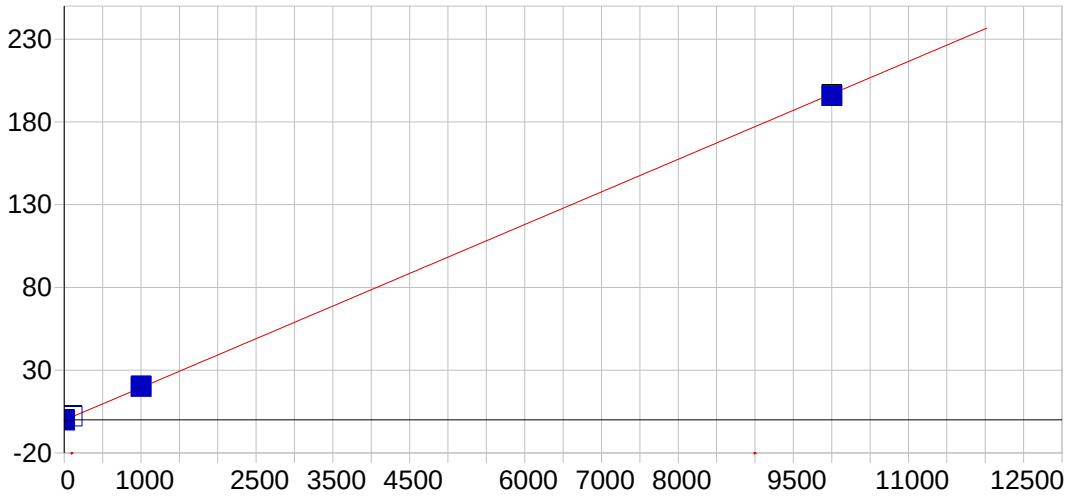


Al 396.152 { 85}

Date of Fit:	12/09/2010 15:29:24	Type of Fit:	Full Fit	Weighting:	1/Conc

A0 (Offset):	7.763901	Re-Slope:	1.000000
A1 (Gain):	0.516818	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	1.010000		
Correlation:	0.999967	Status:	OK.
Std Error of Est:	9.889395		
Predicted MDL:	12.295726		
Predicted MQL:	40.985753		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	7.6970	1.38	1
CalibStd=100	100000.	97774.	-2230.	-2.23	56286.	126.	1
CalibStd-100	1000000.	998640.	-1360.	-.136	548220.	9470.	1
CalibStd=500	500000.	502990.	2990.	.597	285330.	1530.	1
CalibStd=100	1000.0	1087.9	87.9	8.79	610.66	.940	1
CalibStd=100	10000.	10489.	489.	4.89	5950.3	48.3	1

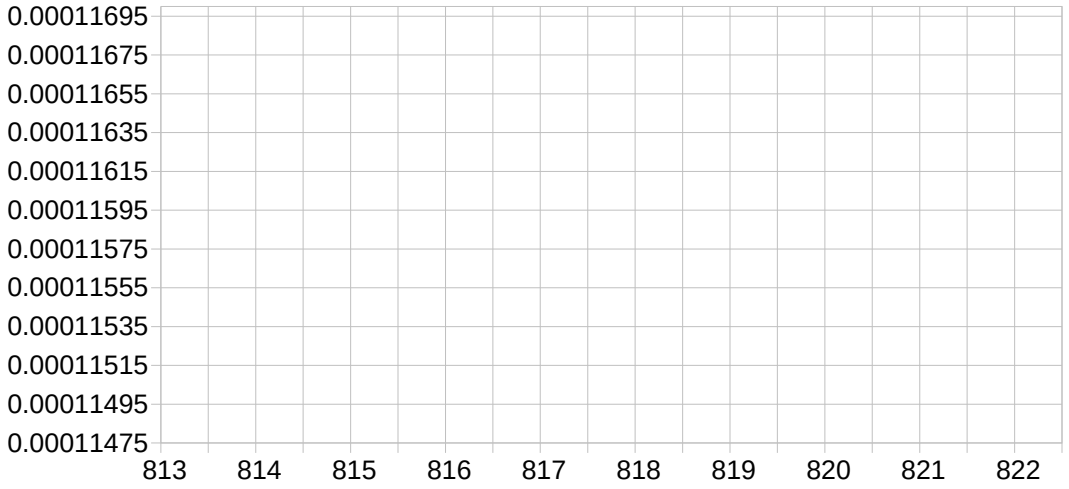


As 189.042 {479}

Date of Fit:	12/09/2010 15:06:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.208401	Re-Slope:	1.000000
A1 (Gain):	0.019708	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999717	Status:	OK.
Std Error of Est:	0.022067		
Predicted MDL:	15.192265		
Predicted MQL:	50.640883		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.02510	-.025	.000	-.20890	.078	1
CalibStd=100	1000.0	1029.0	29.0	2.90	20.071	.150	1
CalibStd=100	10000.	9948.2	-51.8	-.518	195.85	.503	1
CalibStd=100	100.00	122.71	22.7	22.7	2.2100	.233	1



As 193.759 {474}

Date of Fit:	12/09/2010 15:01:23	Type of Fit:	Linear	Weighting:	None

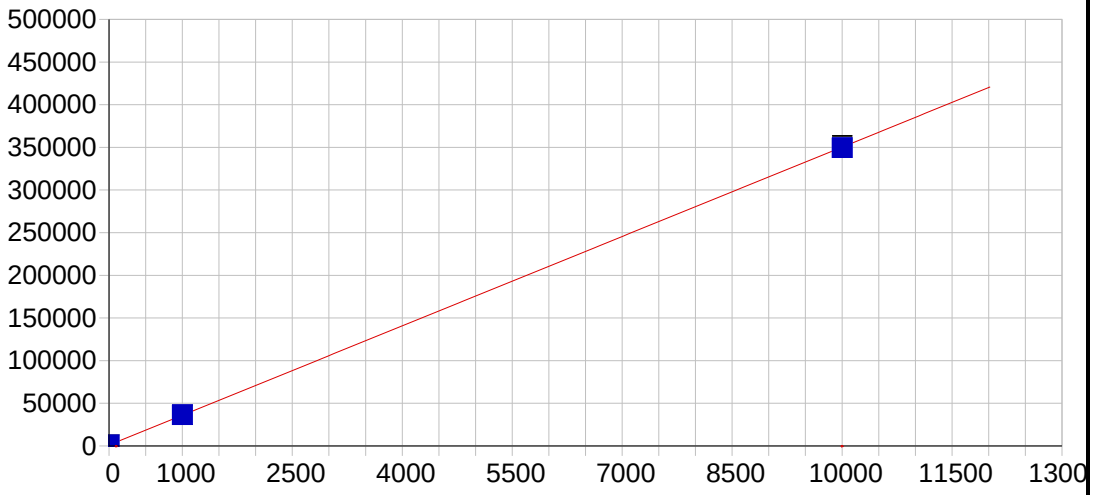
A0 (Offset):	-0.266421	Re-Slope:	1.000000
A1 (Gain):	0.028282	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999818	Status:	OK.
Std Error of Est:	0.268817		
Predicted MDL:	14.794132		
Predicted MQL:	49.313773		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-9.5497	-9.55	.000	-.53651	.487	1
CalibStd=100	1000.0	999.49	-.514	-.051	28.031	.334	1
CalibStd=50	50.000	63.208	13.2	26.4	1.5212	.173	1
CalibStd=10	10.000	8.1241	-1.88	-18.8	-.03666	.325	1
CalibStd=100	100.00	98.732	-1.27	-1.27	2.5259	.286	1

Ba 455.403 { 74}

Date of Fit:	12/09/2010 14:56:26	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	-0.930468		Re-Slope:	1.000000	
A1 (Gain):	28.243410		Y-int:	0.000000	
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.999731		Status:	OK.	
Std Error of Est:	0.334359				
Predicted MDL:	0.364729				
Predicted MQL:	1.215765				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00014	.000	.000	-.93439	4.36	1
CalibStd=50	50.000	50.953	.953	1.91	1438.2	2.51	1
CalibStd=10	10.000	10.034	.034	.339	282.46	1.13	1
CalibStd=20	20.000	20.695	.695	3.48	583.57	5.48	1
CalibStd=100	100.00	98.412	-1.59	-1.59	2778.6	19.7	1
CalibStd=1	1.0000	1.1453	.145	14.5	31.418	7.05	1
CalibStd=5	5.0000	4.7607	-.239	-4.79	133.53	1.51	1

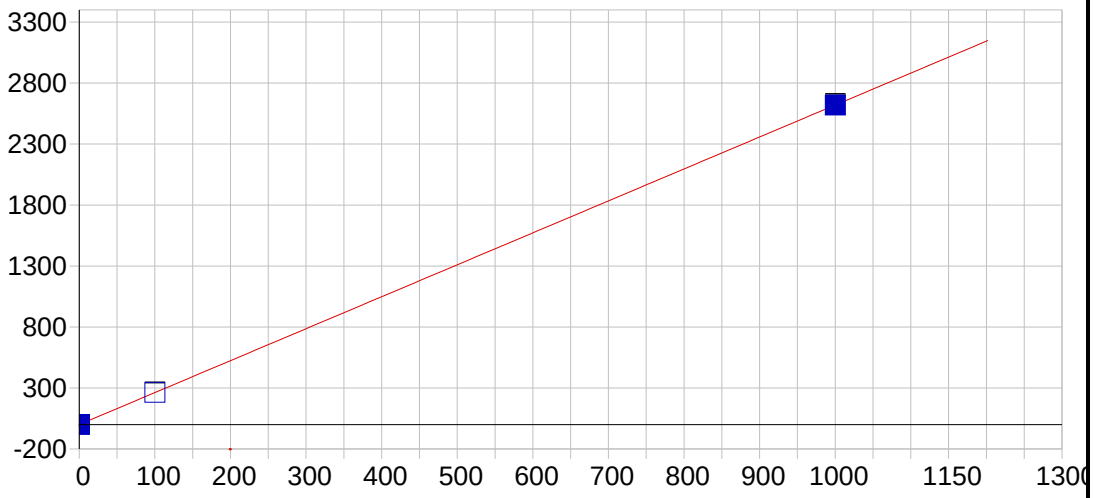


Ba 493.409 { 68}

Date of Fit:	12/09/2010 15:06:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	1078.609910	Re-Slope:	1.000000
A1 (Gain):	34.920861	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999985	Status:	OK.
Std Error of Est:	35.150037		
Predicted MDL:	0.556132		
Predicted MQL:	1.853772		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.01577	-.016	.000	1078.1	22.0	1
CalibStd=100	1000.0	1017.5	17.5	1.75	36613.	172.	1
CalibStd=100	10000.	9982.5	-17.5	-.175	349690.	2030.	1

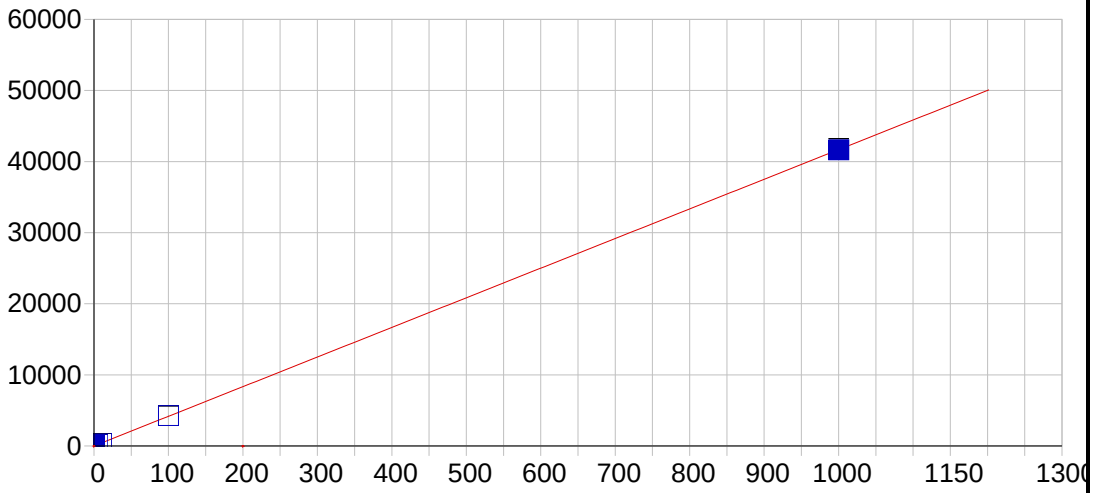


Be 234.861 {144}

Date of Fit:	12/09/2010 15:01:23	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-0.006779	Re-Slope:	1.000000
A1 (Gain):	2.619928	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.734160		
Predicted MDL:	0.493099		
Predicted MQL:	1.643665		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.18694	-.187	.000	-.49655	.294	1
CalibStd=100	1000.0	999.98	-.021	-.002	2619.6	8.13	1
CalibStd=100	100.00	100.21	.208	.208	262.53	2.10	1

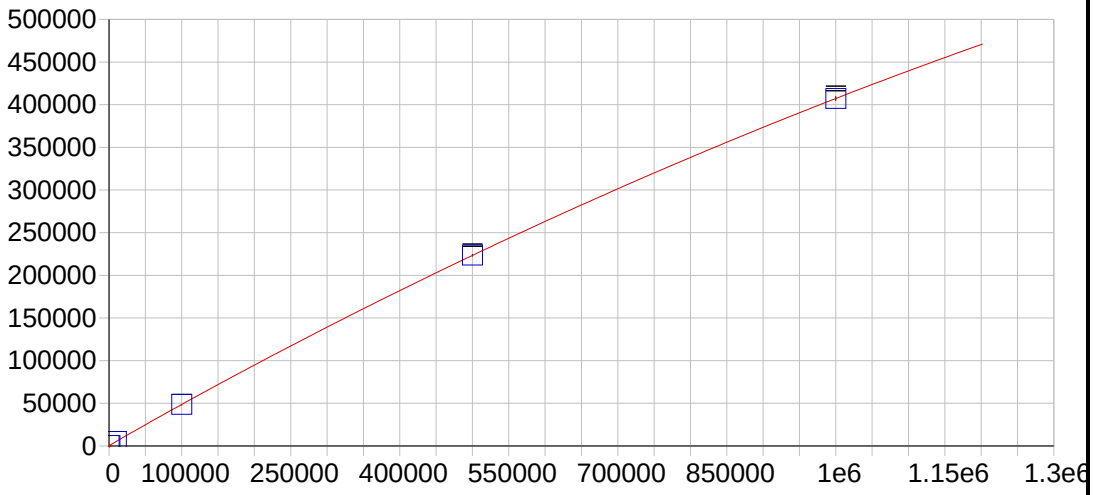


Be 313.042 {108}

Date of Fit:	12/09/2010 15:01:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	4.333082	Re-Slope:	1.000000
A1 (Gain):	41.674118	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999957	Status:	OK.
Std Error of Est:	0.242198		
Predicted MDL:	0.099827		
Predicted MQL:	0.332756		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00013	.000	.000	4.3385	2.59	1
CalibStd=10	10.000	9.5443	-.456	-4.56	402.08	4.02	1
CalibStd=100	100.00	101.74	1.74	1.74	4244.4	18.4	1
CalibStd=0.5	.50000	.41012	-.090	-18.0	21.425	1.80	1
CalibStd=5	5.0000	4.7655	-.234	-4.69	202.93	1.21	1
CalibStd=0.2	.25000	.18383	-.066	-26.5	11.994	1.75	1
CalibStd=100	1000.0	999.10	-.896	-.090	41641.	143.	1

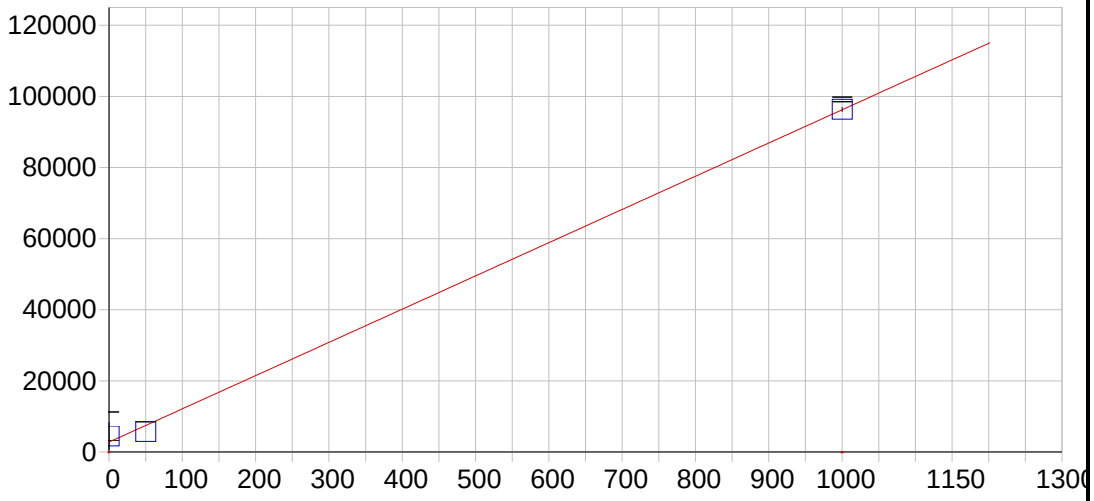


Ca 317.933 {106}

Date of Fit:	12/09/2010 15:29:24	Type of Fit:	Full Fit	Weighting:	1/Conc

A0 (Offset):	304.915696	Re-Slope:	1.000000
A1 (Gain):	0.550779	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	0.990000		
Correlation:	0.999999	Status:	OK.
Std Error of Est:	1.013332		
Predicted MDL:	3.872254		
Predicted MQL:	12.907514		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.02045	.020	.000	304.93	18.1	1
CalibStd=100	10000.	10044.	43.8	.438	5341.8	26.8	1
CalibStd=100	100000.	99816.	-184.	-.184	48545.	39.0	1
CalibStd=500	500000.	500350.	353.	.071	223540.	1400.	1
CalibStd-100	1000000.	999810.	-192.	-.019	407230.	2760.	1
CalibStd=100	1000.0	973.99	-26.0	-2.60	805.62	.981	1

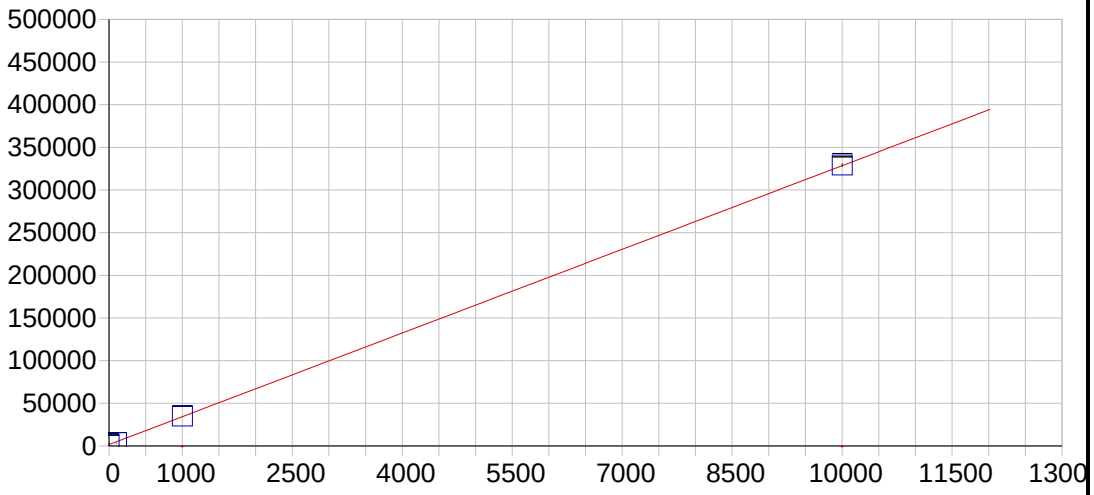


Ca 393.366 { 86}

Date of Fit:	12/09/2010 15:01:23	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	2781.011296	Re-Slope:	1.000000
A1 (Gain):	93.451675	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999471	Status:	OK.
Std Error of Est:	2424.114089		
Predicted MDL:	0.057420		
Predicted MQL:	0.191400		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	17.854	17.9	.000	4449.5	3950.	1
CalibStd=50	50.000	31.206	-18.8	-37.6	5697.3	23.1	1
CalibStd=100	1000.0	1000.9	.940	.094	96321.	638.	1

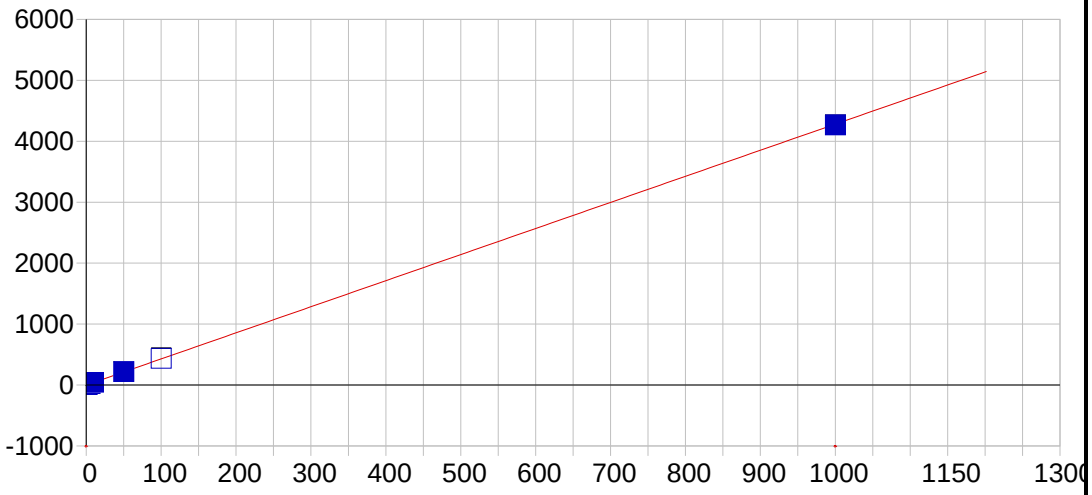


Ca 396.847 { 85}

Date of Fit:	12/09/2010 15:06:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	1610.726240	Re-Slope:	1.000000
A1 (Gain):	32.690719	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999435	Status:	OK.
Std Error of Est:	51.750985		
Predicted MDL:	0.110952		
Predicted MQL:	0.369841		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.03296	.033	.000	1611.8	1430.	1
CalibStd=100	10000.	10017.	17.1	.171	329080.	1930.	1
CalibStd=100	100.00	65.091	-34.9	-34.9	3738.6	8.60	1
CalibStd=100	1000.0	1017.8	17.8	1.78	34884.	244.	1

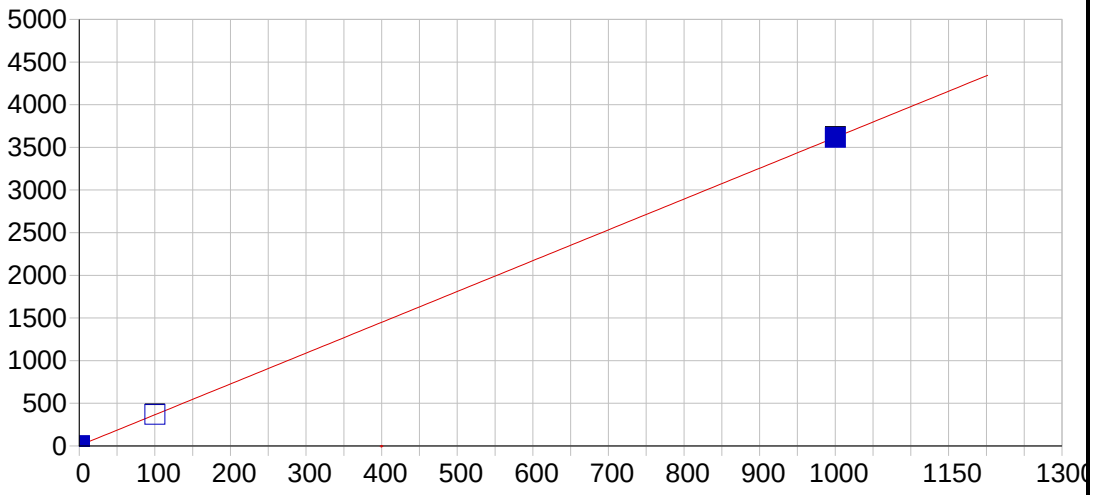


Cd 226.502 {449}

Date of Fit:	12/09/2010 15:01:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.031189	Re-Slope:	1.000000
A1 (Gain):	4.281043	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999936	Status:	OK.
Std Error of Est:	0.029636		
Predicted MDL:	0.141983		
Predicted MQL:	0.473275		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00011	.000	.000	.03071	.351	1
CalibStd=50	50.000	50.904	.904	1.81	217.96	1.31	1
CalibStd=1	1.0000	.91522	-.085	-8.48	3.9493	.476	1
CalibStd=0.5	.50000	.48560	-.014	-2.88	2.1101	.228	1
CalibStd=5	5.0000	5.1371	.137	2.74	22.024	.193	1
CalibStd=0.2	.25000	.36951	.120	47.8	1.6131	.087	1
CalibStd=100	100.00	102.17	2.17	2.17	437.41	1.43	1
CalibStd=10	10.000	10.236	.236	2.36	43.853	.177	1
CalibStd=100	1000.0	996.54	-3.46	-.346	4266.7	1.67	1

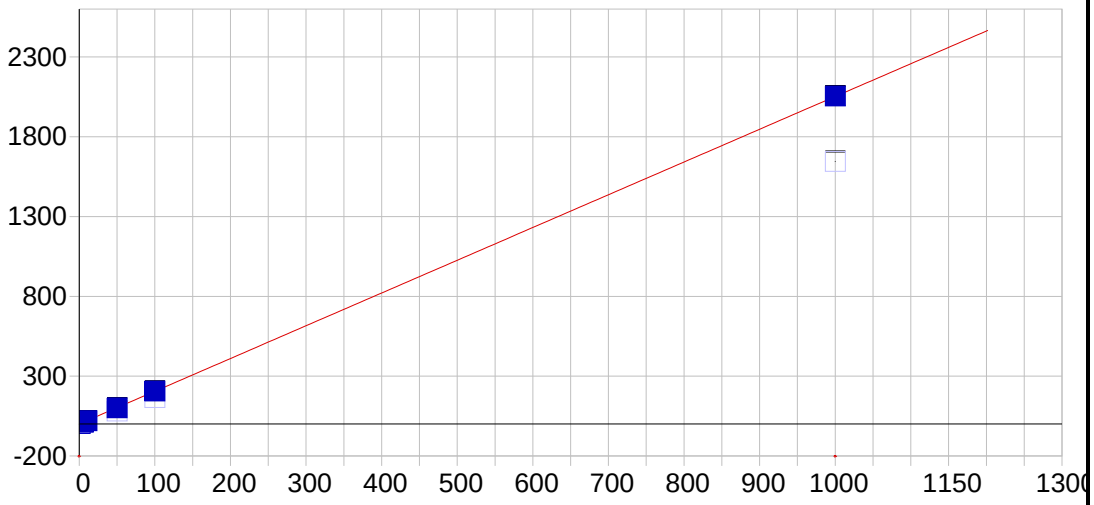


Cd 228.802 {447}

Date of Fit:	12/09/2010 15:01:23	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	4.577199	Re-Slope:	1.000000
A1 (Gain):	3.611810	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999998	Status:	OK.
Std Error of Est:	5.315738		
Predicted MDL:	0.174985		
Predicted MQL:	0.583282		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.98185	-.982	.000	1.0309	.617	1
CalibStd=100	1000.0	999.89	-.109	-.011	3616.0	9.89	1
CalibStd=100	100.00	101.09	1.09	1.09	369.70	1.46	1

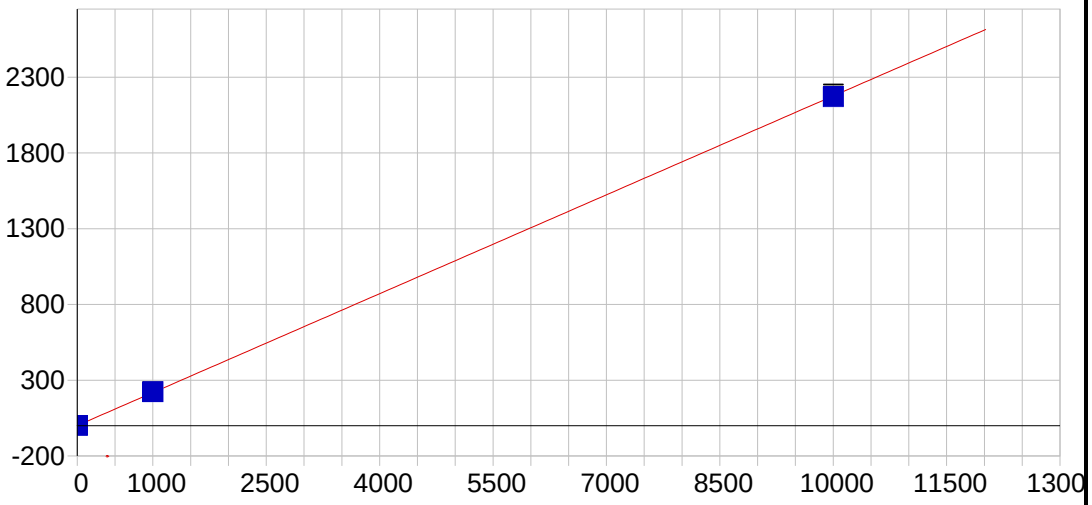


Co 228.616 {447}

Date of Fit:	12/09/2010 15:01:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.143844	Re-Slope:	1.000000
A1 (Gain):	2.052087	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999952	Status:	OK.
Std Error of Est:	0.020614		
Predicted MDL:	0.258407		
Predicted MQL:	0.861356		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00027	.000	.000	.14440	.425	1
CalibStd=50	50.000	49.040	-.960	-1.92	80.256	.949	1
CalibStd=10	10.000	9.8179	-.182	-1.82	16.187	.167	1
CalibStd=5	5.0000	4.8793	-.121	-2.41	8.1045	.328	1
CalibStd=1	1.0000	.78717	-.213	-21.3	1.7592	.061	1
CalibStd=100	100.00	100.16	.160	.160	164.64	.401	1
CalibStd=100	1000.0	1001.4	1.37	.137	1644.6	2.12	1

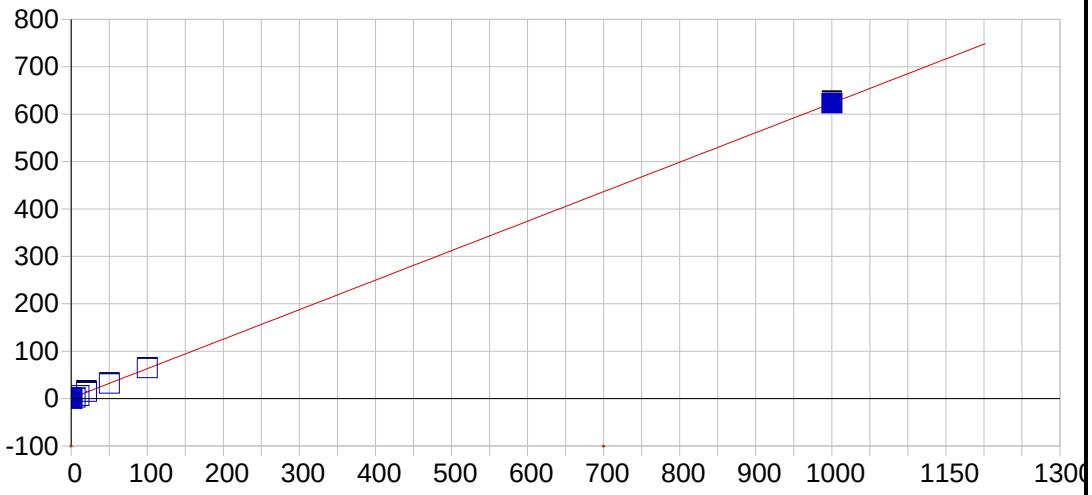


Co 238.892 {141}

Date of Fit:	12/09/2010 15:06:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.911885	Re-Slope:	1.000000
A1 (Gain):	0.217562	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999978	Status:	OK.
Std Error of Est:	0.260835		
Predicted MDL:	5.464256		
Predicted MQL:	18.214186		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.01879	-.019	.000	.90780	.909	1
CalibStd=100	1000.0	1020.9	20.9	2.09	222.70	.370	1
CalibStd=100	10000.	9979.1	-20.9	-.209	2168.8	15.5	1

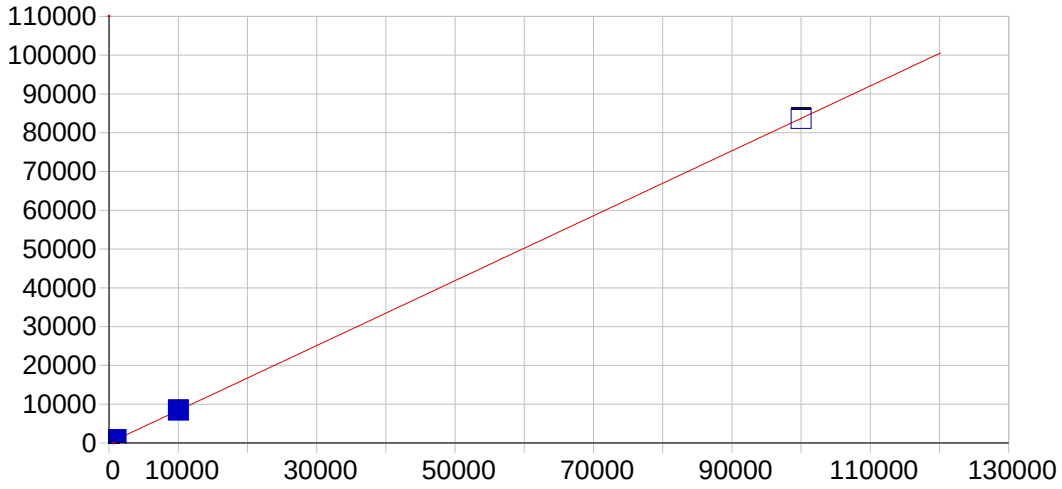


Cr 267.716 {126}

Date of Fit:	12/09/2010 15:01:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.830505	Re-Slope:	1.000000
A1 (Gain):	0.622393	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.997273	Status:	OK.
Std Error of Est:	0.057875		
Predicted MDL:	3.335292		
Predicted MQL:	11.117639		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00264	.003	.000	.83215	1.07	1
CalibStd=10	10.000	8.4881	-1.51	-15.1	6.1134	.285	1
CalibStd=5	5.0000	2.8833	-2.12	-42.3	2.6250	3.46	1
CalibStd=1	1.0000	-1.2275	-2.23	-223.	.06650	.880	1
CalibStd=50	50.000	50.247	.247	.494	32.104	.827	1
CalibStd=100	1000.0	1000.6	.556	.056	623.57	3.70	1
CalibStd=20	20.000	22.604	2.60	13.0	14.899	1.66	1
CalibStd=100	100.00	102.45	2.45	2.45	64.595	.082	1

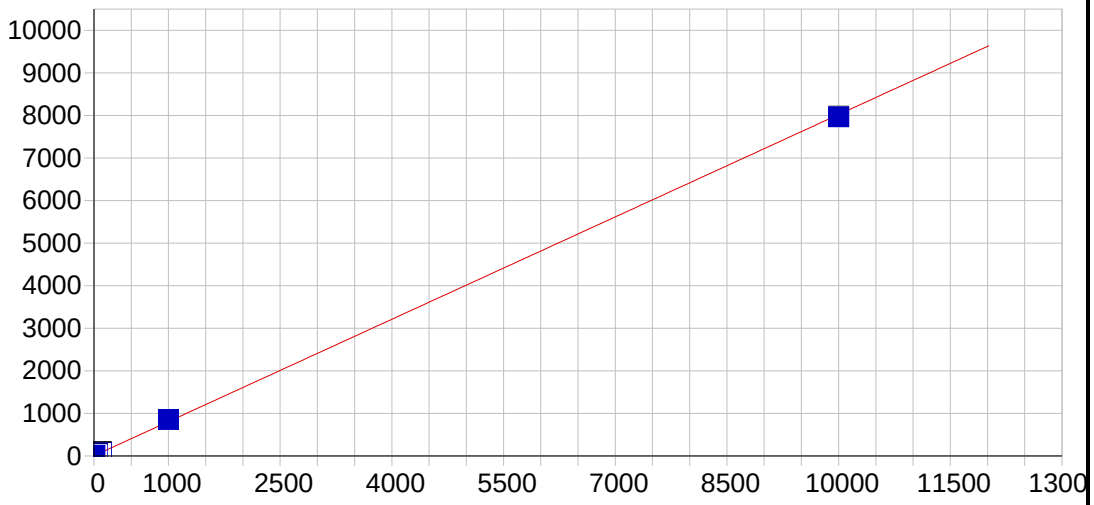


Cr 283.563 {119}

Date of Fit:	12/09/2010 15:12:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	2.350355	Re-Slope:	1.000000
A1 (Gain):	0.837024	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999994	Status:	OK.
Std Error of Est:	0.273051		
Predicted MDL:	2.812662		
Predicted MQL:	9.375540		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00525	-.005	.000	2.3460	.984	1
CalibStd=50	50.000	51.208	1.21	2.42	45.213	2.01	1
CalibStd=100	100.00	104.63	4.63	4.63	89.928	.807	1
CalibStd=100	1000.0	1032.4	32.4	3.24	867.63	5.91	1
CalibStd=100	10000.	10029.	29.1	.291	8408.8	63.0	1
CalibStd-100	100000.	99933.	-67.4	-.067	83648.	203.	1

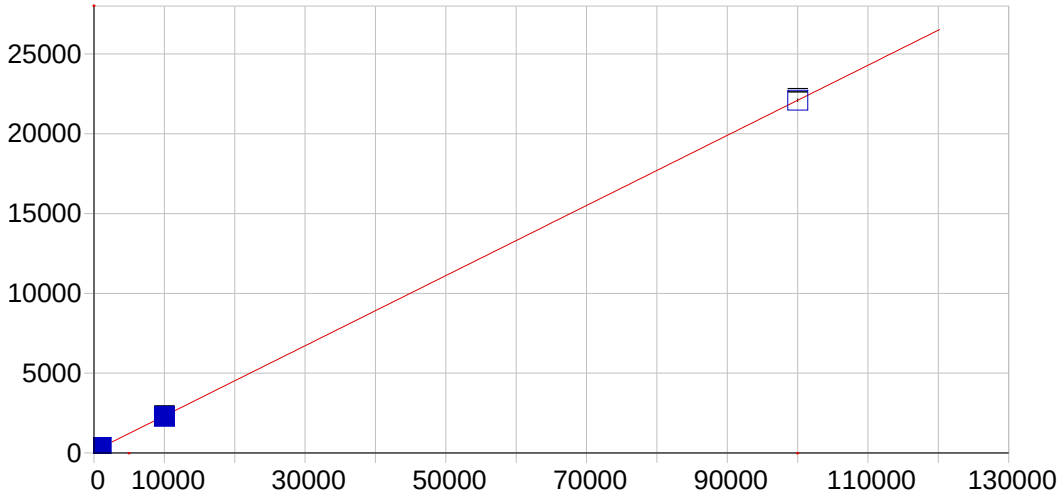


Cu 224.700 {450}

Date of Fit:	12/09/2010 15:06:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	5.179590	Re-Slope:	1.000000
A1 (Gain):	0.801614	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999785	Status:	OK.
Std Error of Est:	0.146969		
Predicted MDL:	0.678355		
Predicted MQL:	2.261183		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00152	-.002	.000	5.1784	.160	1
CalibStd=100	1000.0	1056.9	56.9	5.69	852.49	.534	1
CalibStd=50	50.000	54.076	4.08	8.15	48.528	.575	1
CalibStd=100	100.00	108.24	8.24	8.24	91.944	.345	1
CalibStd=5	5.0000	5.0173	.017	.346	9.2015	.548	1
CalibStd=10	10.000	10.869	.869	8.69	13.892	.202	1
CalibStd=100	10000.	9929.9	-70.1	-.701	7966.4	9.26	1

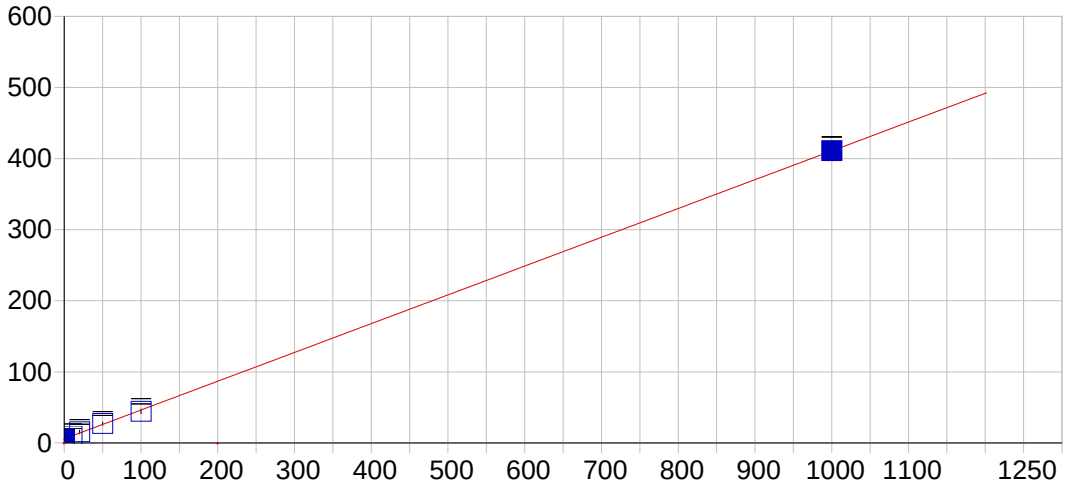


Cu 324.754 {104}

Date of Fit:	12/09/2010 15:12:13	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	126.323575	Re-Slope:	1.000000
A1 (Gain):	0.219699	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999997	Status:	OK.
Std Error of Est:	34.203226		
Predicted MDL:	13.246221		
Predicted MQL:	44.154069		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	115.93	116.	.000	151.79	3.45	1
CalibStd=100	10000.	9819.6	-180.	-1.80	2283.6	21.2	1
CalibStd-100	100000.	100020.	17.6	.018	22100.	110.	1
CalibStd=100	1000.0	1046.9	46.9	4.69	356.31	2.18	1

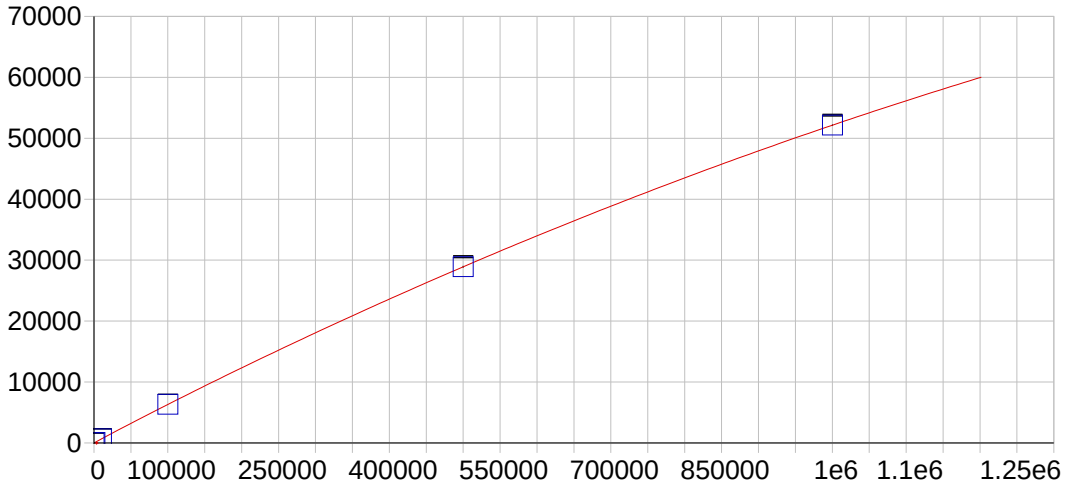


Cu 327.396 {103}

Date of Fit:	12/09/2010 15:01:23	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	5.805320	Re-Slope:	1.000000
A1 (Gain):	0.405013	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999968	Status:	OK.
Std Error of Est:	1.431674		
Predicted MDL:	11.871052		
Predicted MQL:	39.570173		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-1.8553	-1.86	.000	5.0539	.445	1
CalibStd=20	20.000	23.841	3.84	19.2	15.461	3.23	1
CalibStd=50	50.000	53.062	3.06	6.12	27.296	2.66	1
CalibStd=100	100.00	95.311	-4.69	-4.69	44.407	3.73	1
CalibStd=10	10.000	9.3970	-.603	-6.03	9.6112	3.10	1
CalibStd=100	1000.0	1000.2	.245	.025	410.90	5.41	1

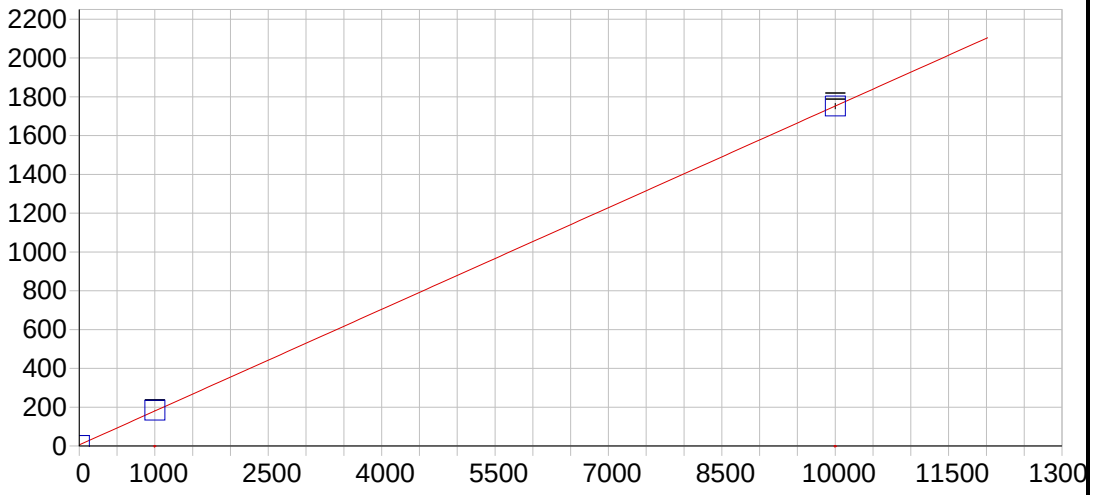


Fe 234.349 {144}

Date of Fit:	12/09/2010 15:29:24	Type of Fit:	Full Fit	Weighting:	None

A0 (Offset):	5.699243	Re-Slope:	1.000000
A1 (Gain):	0.072038	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	0.990000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	6.164771		
Predicted MDL:	11.076523		
Predicted MQL:	36.921744		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	1.0877	.783	1
CalibStd=100	10000.	10093.	93.2	.932	667.57	5.70	1
CalibStd=500	500000.	499980.	-23.2	-.005	28906.	148.	1
CalibStd=100	100000.	100040.	42.9	.043	6317.7	15.8	1
CalibStd-100	1000000.	1000000.	6.74	.001	52146.	140.	1
CalibStd=100	1000.0	952.92	-47.1	-4.71	69.784	.395	1

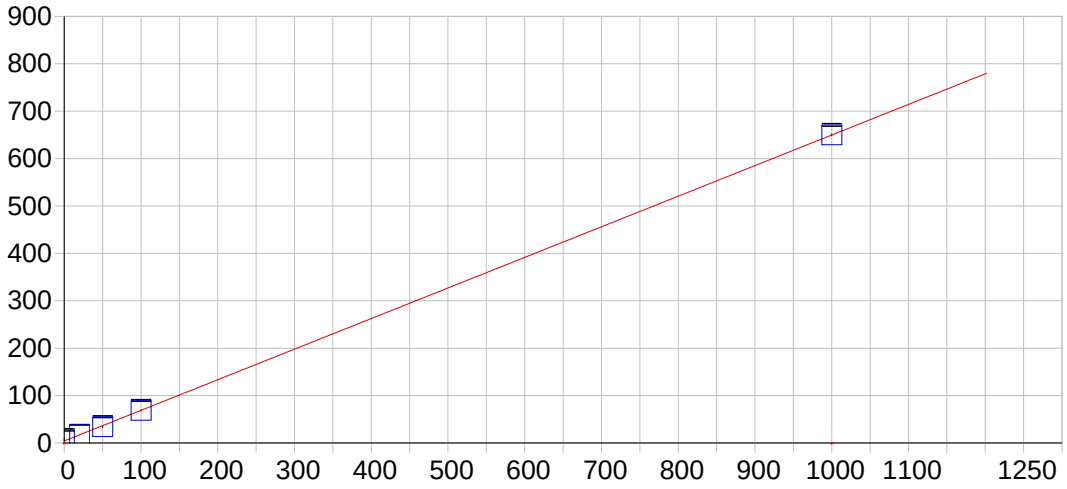


Fe 239.562 {141}

Date of Fit:	12/09/2010 15:06:47	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	5.586650	Re-Slope:	1.000000
A1 (Gain):	0.174659	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999992	Status:	OK.
Std Error of Est:	5.438125		
Predicted MDL:	5.469373		
Predicted MQL:	18.231244		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-20.771	-20.8	.000	1.9587	1.49	1
CalibStd=100	1000.0	1023.1	23.1	2.31	184.28	1.51	1
CalibStd=100	10000.	9997.7	-2.31	-.023	1751.8	15.9	1

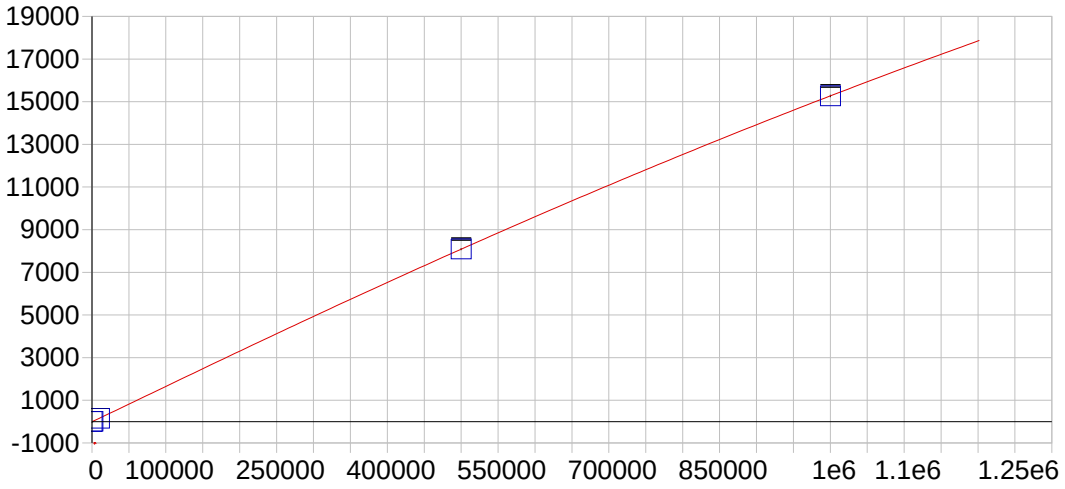


Fe 259.940 {130}

Date of Fit:	12/09/2010 15:01:23	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	4.225604	Re-Slope:	1.000000
A1 (Gain):	0.645523	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999981	Status:	OK.
Std Error of Est:	1.997258		
Predicted MDL:	2.917910		
Predicted MQL:	9.726365		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	3.8109	3.81	.000	6.6856	2.68	1
CalibStd=100	1000.0	1000.2	.234	.023	649.90	2.87	1
CalibStd=50	50.000	46.281	-3.72	-7.44	34.101	1.87	1
CalibStd=100	100.00	99.480	-.520	-.520	68.442	1.99	1
CalibStd=20	20.000	20.194	.194	.970	17.261	.690	1

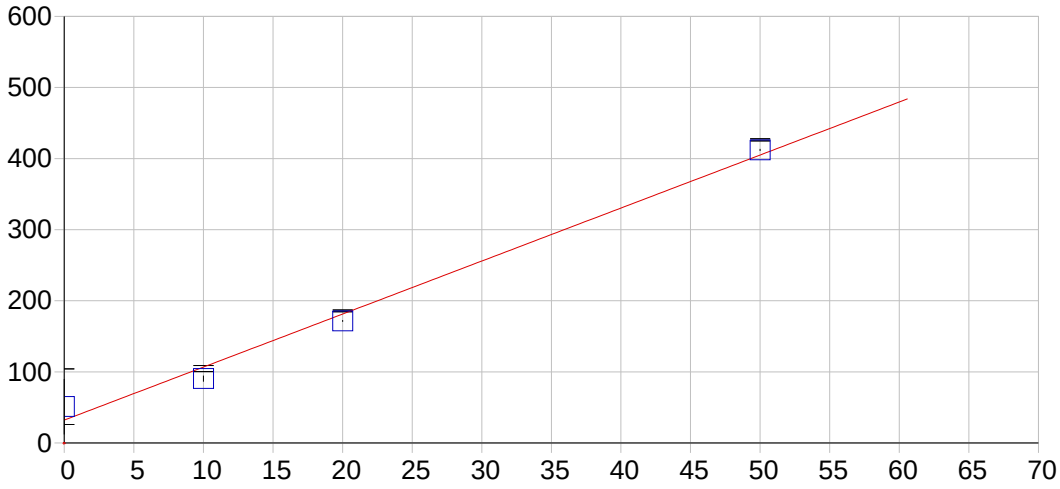


Mg 279.079 {121}

Date of Fit:	12/10/2010 07:01:40	Type of Fit:	Full Fit	Weighting:	1/Conc

A0 (Offset):	0.150746	Re-Slope:	1.000000
A1 (Gain):	0.013268	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	1.020000		
Correlation:	0.999968	Status:	OK.
Std Error of Est:	0.343773		
Predicted MDL:	86.334352		
Predicted MQL:	287.781172		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.14709	.314	1
CalibStd=500	500000.	500320.	322.	.064	8090.6	48.5	1
CalibStd=100	10000.	9573.6	-426.	-4.26	152.56	2.13	1
CalibStd-100	1000000.	999820.	-177.	-.018	15270.	56.3	1
CalibStd=100	1000.0	1278.5	278.	27.8	19.719	.564	1

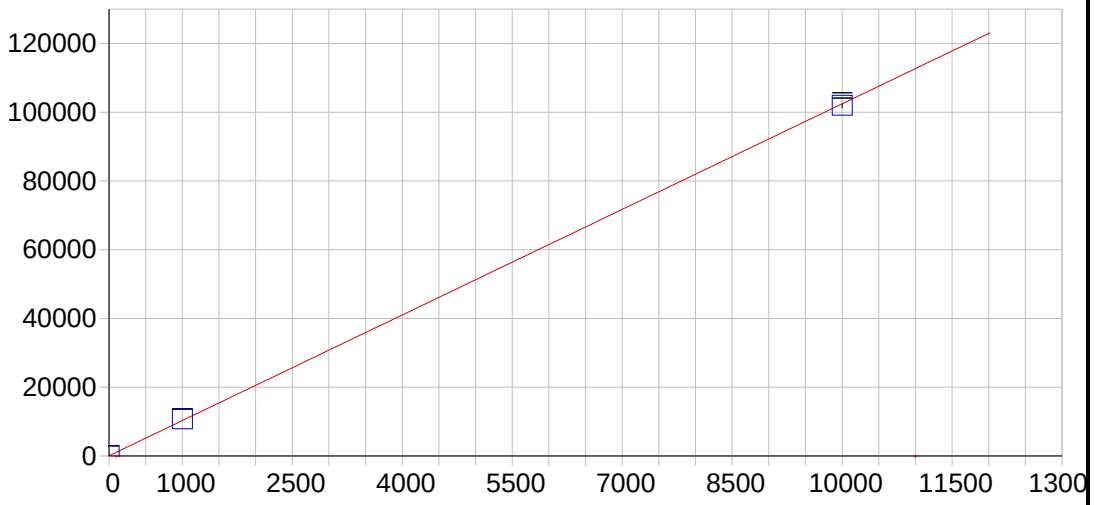


Mg 279.553 {121}

Date of Fit:	12/09/2010 14:51:15	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	32.147694	Re-Slope:	1.000000
A1 (Gain):	7.457203	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.995120	Status:	OK.
Std Error of Est:	19.563216		
Predicted MDL:	0.159353		
Predicted MQL:	0.531175		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	2.5275	2.53	.000	50.995	39.1	1
CalibStd=50	50.000	50.958	.958	1.92	412.15	1.48	1
CalibStd=20	20.000	18.697	-1.30	-6.51	171.58	1.24	1
CalibStd=10	10.000	7.8176	-2.18	-21.8	90.445	4.29	1

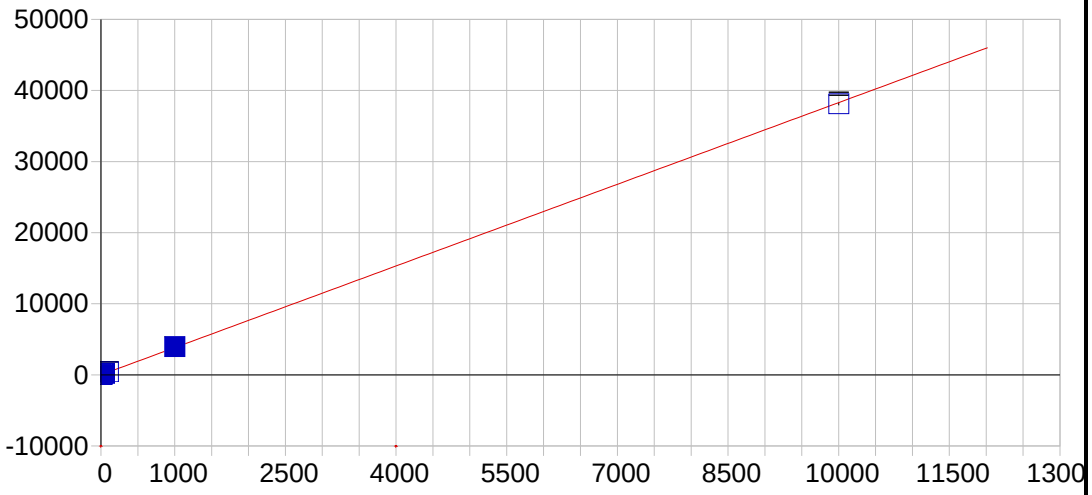


Mg 280.270 {120}

Date of Fit:	12/09/2010 15:06:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	60.980935	Re-Slope:	1.000000
A1 (Gain):	10.237574	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999893	Status:	OK.
Std Error of Est:	27.213016		
Predicted MDL:	0.148188		
Predicted MQL:	0.493959		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.04165	-.042	.000	60.555	43.8	1
CalibStd=100	1000.0	1046.3	46.3	4.63	10772.	38.7	1
CalibStd=100	10000.	9953.7	-46.3	-.463	101960.	782.	1

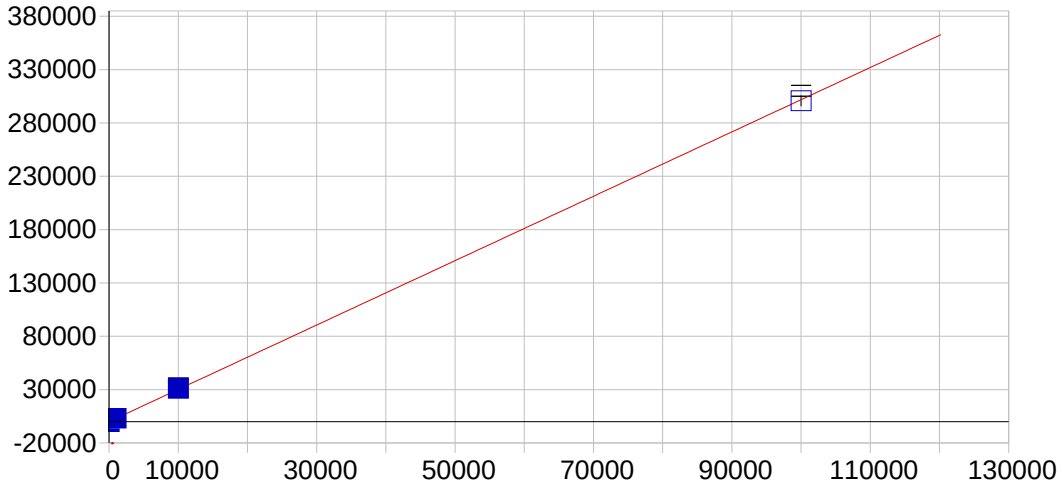


Mn 257.610 {131}

Date of Fit:	12/09/2010 15:06:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.592726	Re-Slope:	1.000000
A1 (Gain):	3.829402	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999908	Status:	OK.
Std Error of Est:	0.197048		
Predicted MDL:	0.503904		
Predicted MQL:	1.679680		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00071	-.001	.000	.59000	3.26	1
CalibStd=10	10.000	10.694	.694	6.94	41.544	2.64	1
CalibStd=50	50.000	52.750	2.75	5.50	202.59	2.85	1
CalibStd=20	20.000	21.251	1.25	6.25	81.970	1.30	1
CalibStd=100	100.00	105.43	5.43	5.43	404.33	5.44	1
CalibStd=5	5.0000	5.4296	.430	8.59	21.385	1.06	1
CalibStd=1	1.0000	1.3552	.355	35.5	5.7822	1.90	1
CalibStd=100	1000.0	1033.6	33.6	3.36	3958.6	21.2	1
CalibStd=100	10000.	9955.5	-44.5	-.445	38124.	214.	1

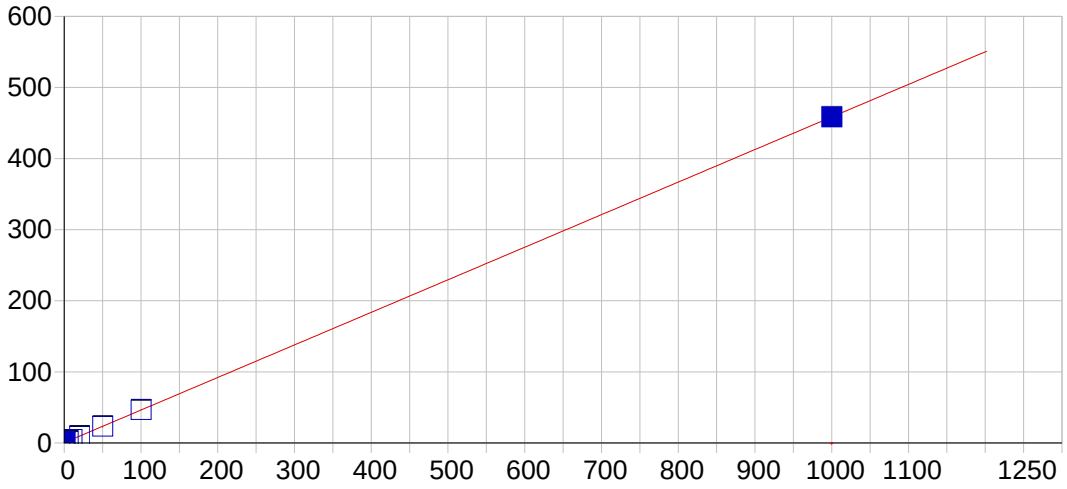


Mn 259.373 {130}

Date of Fit:	12/09/2010 15:12:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	1.811593	Re-Slope:	1.000000
A1 (Gain):	3.018035	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999923	Status:	OK.
Std Error of Est:	17.641198		
Predicted MDL:	0.770488		
Predicted MQL:	2.568295		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.10669	-.107	.000	1.4896	3.21	1
CalibStd=100	10000.	10303.	303.	3.03	31253.	238.	1
CalibStd-100	100000.	99615.	-385.	-.385	300640.	5110.	1
CalibStd=100	1000.0	1080.3	80.3	8.03	3277.8	14.7	1

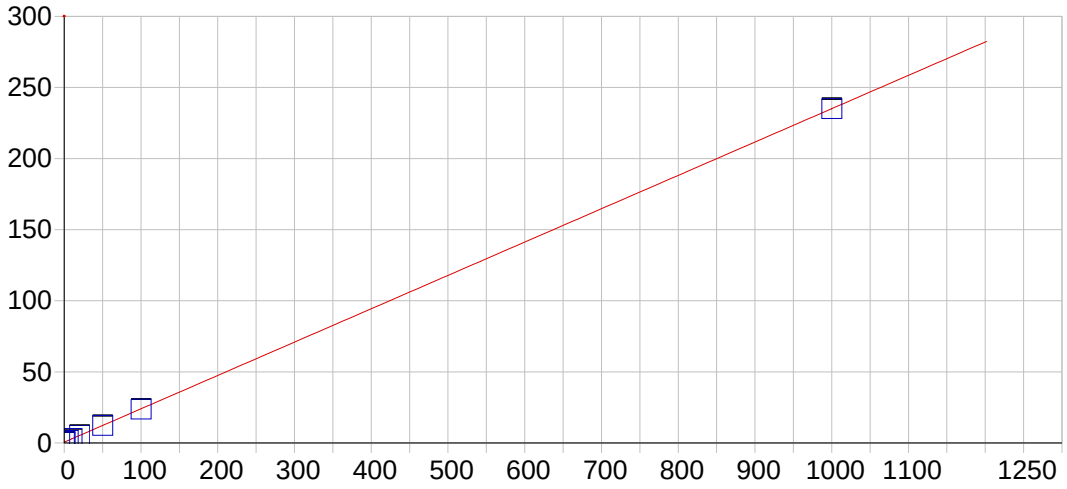


Mo 202.030 {467}

Date of Fit:	12/09/2010 15:01:23	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.491792	Re-Slope:	1.000000
A1 (Gain):	0.458041	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999999	Status:	OK.
Std Error of Est:	0.200376		
Predicted MDL:	0.775578		
Predicted MQL:	2.585260		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.09903	-.099	.000	.44643	.135	1
CalibStd=50	50.000	50.207	.207	.414	23.489	.011	1
CalibStd=1	1.0000	.70785	-.292	-29.2	.81602	.246	1
CalibStd=20	20.000	19.738	-.262	-1.31	9.5327	.327	1
CalibStd=10	10.000	9.7419	-.258	-2.58	4.9540	.280	1
CalibStd=100	100.00	100.92	.922	.922	46.718	.395	1
CalibStd=5	5.0000	4.8754	-.125	-2.49	2.7249	.031	1
CalibStd=100	1000.0	999.91	-.094	-.009	458.49	.641	1

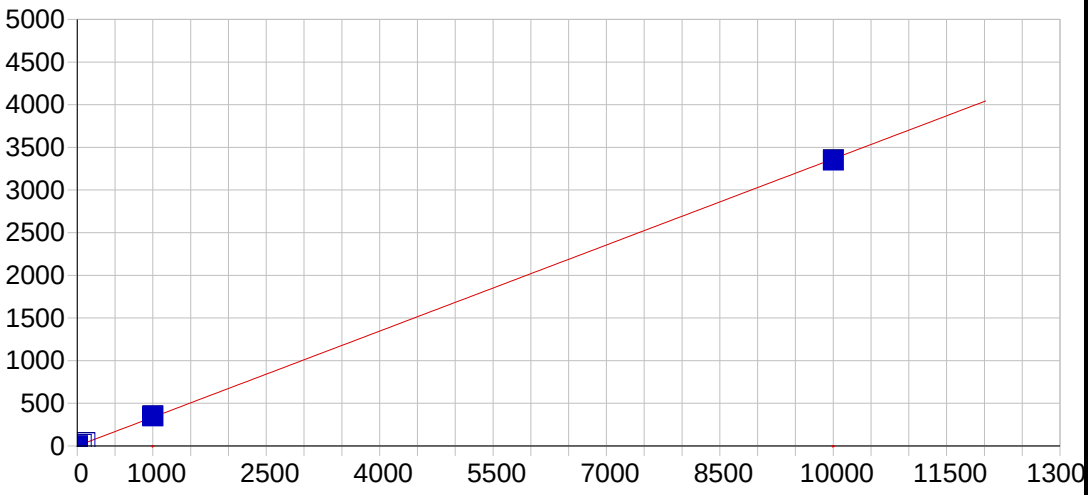


Mo 203.844 {465}

Date of Fit:	12/09/2010 15:01:23	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.559627	Re-Slope:	1.000000
A1 (Gain):	0.234543	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999999	Status:	OK.
Std Error of Est:	0.141078		
Predicted MDL:	1.558272		
Predicted MQL:	5.194240		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.25446	.254	.000	.61931	.166	1
CalibStd=50	50.000	49.837	-.163	-.326	12.249	.265	1
CalibStd=1	1.0000	.57048	-.430	-43.0	.69343	.298	1
CalibStd=20	20.000	20.734	.734	3.67	5.4227	.128	1
CalibStd=10	10.000	10.666	.666	6.66	3.0613	.321	1
CalibStd=100	100.00	99.074	-.926	-.926	23.797	.101	1
CalibStd=5	5.0000	4.7829	-.217	-4.34	1.6814	.249	1
CalibStd=100	1000.0	1000.1	.081	.008	235.12	.453	1

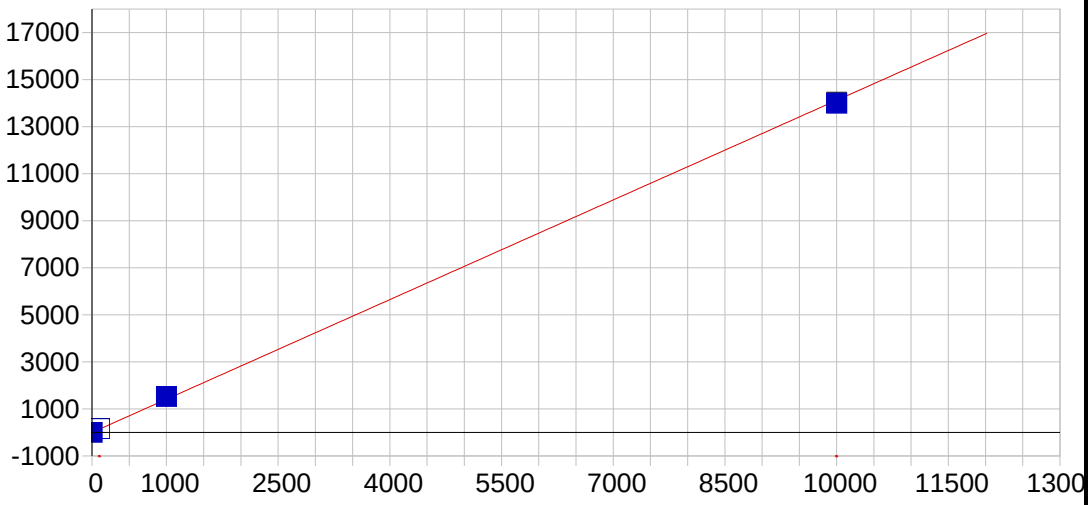


Mo 204.598 {465}

Date of Fit:	12/09/2010 15:06:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.428810	Re-Slope:	1.000000
A1 (Gain):	0.336474	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999901	Status:	OK.
Std Error of Est:	0.144580		
Predicted MDL:	1.191711		
Predicted MQL:	3.972371		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00675	-.007	.000	.42654	.071	1
CalibStd=100	1000.0	1040.8	40.8	4.08	350.64	.111	1
CalibStd=100	10000.	9952.5	-47.5	-.475	3349.3	3.79	1
CalibStd=50	50.000	53.171	3.17	6.34	18.320	.182	1
CalibStd=100	100.00	103.56	3.56	3.56	35.273	.168	1

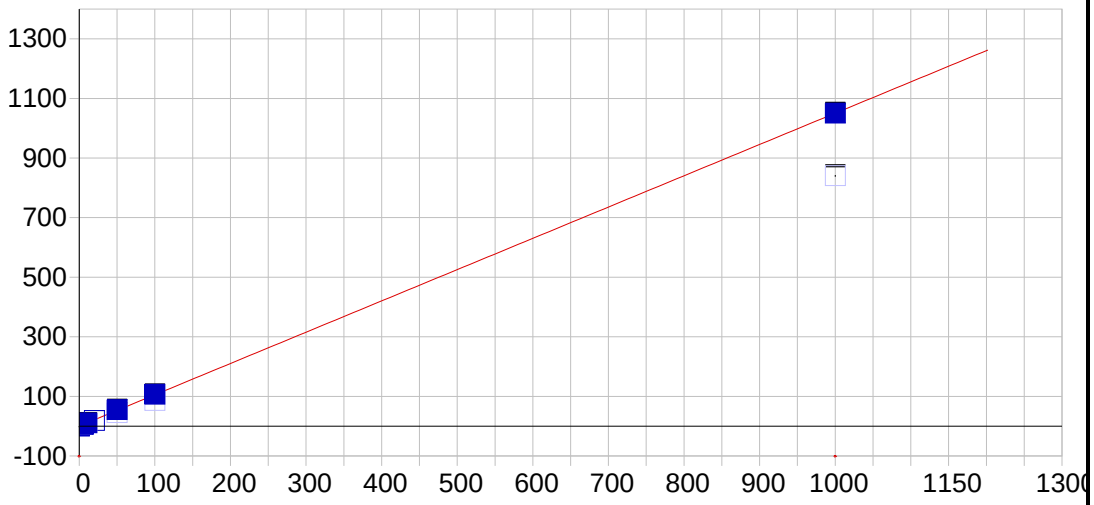


Ni 221.647 {452}

Date of Fit:	12/09/2010 15:06:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.133583	Re-Slope:	1.000000
A1 (Gain):	1.412114	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999634	Status:	OK.
Std Error of Est:	1.799867		
Predicted MDL:	0.500960		
Predicted MQL:	1.669866		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.01631	-.016	.000	-.15662	.367	1
CalibStd=100	10000.	9910.3	-89.7	-.897	13993.	30.7	1
CalibStd=100	100.00	109.16	9.16	9.16	154.01	.533	1
CalibStd=100	1000.0	1080.5	80.5	8.05	1525.6	1.48	1

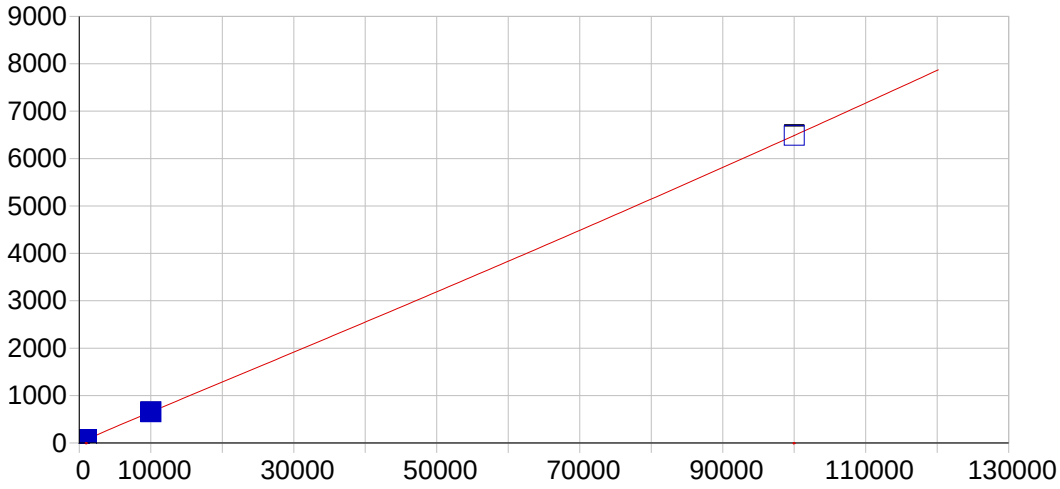


Ni 231.604 {445}

Date of Fit:	12/09/2010 15:01:23	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.339264	Re-Slope:	1.000000
A1 (Gain):	1.050200	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999987	Status:	OK.
Std Error of Est:	1.756972		
Predicted MDL:	0.582053		
Predicted MQL:	1.940178		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.38968	-.390	.000	-.06998	.202	1
CalibStd=50	50.000	52.399	2.40	4.80	44.867	.863	1
CalibStd=20	20.000	17.465	-2.53	-12.7	18.681	.182	1
CalibStd=10	10.000	9.9507	-.049	-.493	8.6891	.425	1
CalibStd=100	100.00	101.20	1.20	1.20	85.611	.765	1
CalibStd=5	5.0000	4.5528	-.447	-8.94	4.0704	.535	1
CalibStd=100	1000.0	999.83	-.173	-.017	840.28	2.86	1

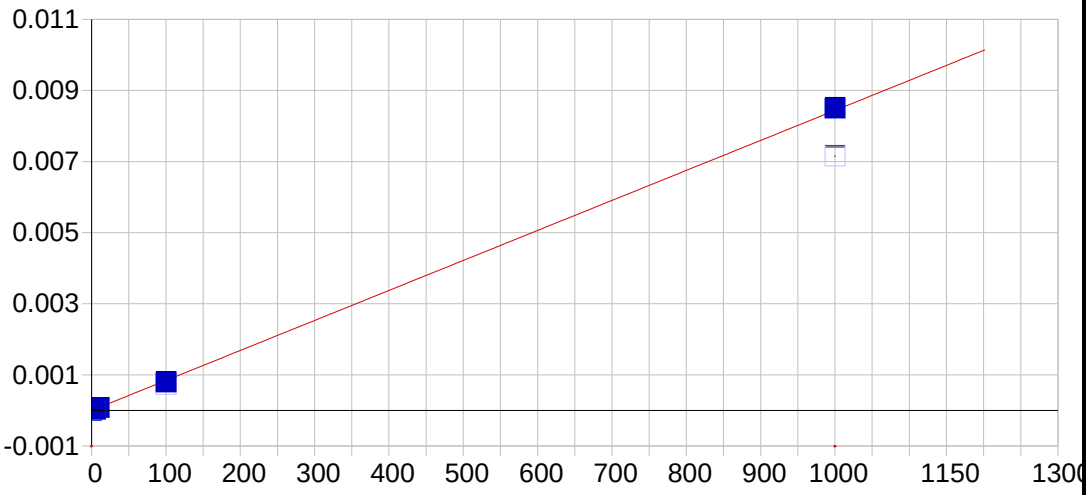


Pb 216.999 {455}

Date of Fit:	12/09/2010 15:12:13	Type of Fit:	Full Fit	Weighting:	None

A0 (Offset):	0.408394	Re-Slope:	1.000000
A1 (Gain):	0.093517	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	0.960000		
Correlation:	1.000000	Status:	Warning Positive Curvature
Std Error of Est:	0.000000		
Predicted MDL:	6.306988		
Predicted MQL:	21.023292		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	1.1880	1.19	.000	.51873	.407	1
CalibStd=100	1000.0	998.16	-1.84	-.184	71.561	.834	1
CalibStd=100	10000.	10000.	.241	.002	656.04	.248	1
CalibStd-100	100000.	100000.	-.002	.000	6488.1	11.0	1

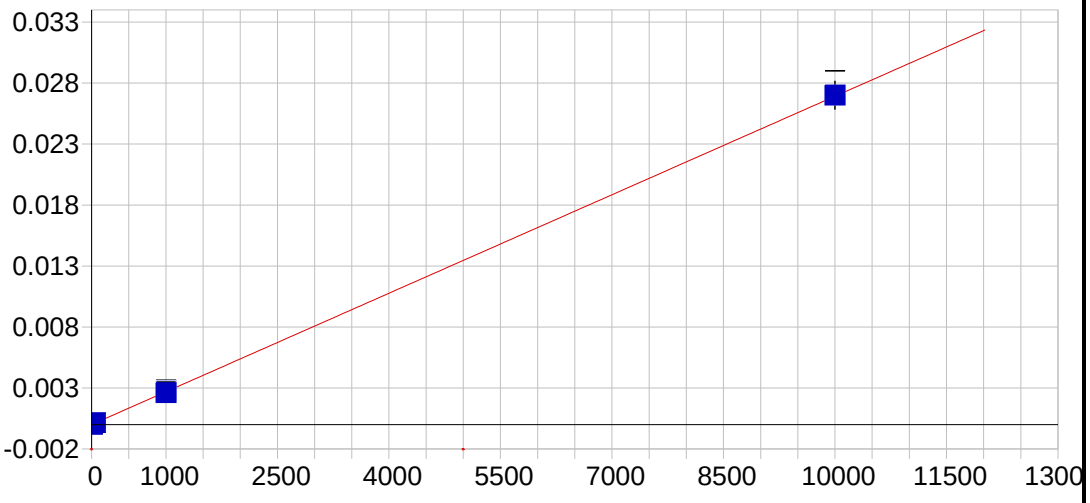


Pb 220.353 {453}

Date of Fit:	12/09/2010 15:01:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000003	Re-Slope:	1.000000
A1 (Gain):	0.000008	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999634	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	1.729987		
Predicted MQL:	5.766623		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00133	.001	.000	.00000	.000	1
CalibStd=10	10.000	9.9941	-.006	-.059	.00008	.000	1
CalibStd=100	100.00	94.526	-5.47	-5.47	.00073	.000	1
CalibStd=5	5.0000	3.9135	-1.09	-21.7	.00003	.000	1
CalibStd=100	1000.0	1007.2	7.19	.719	.00715	.000	1

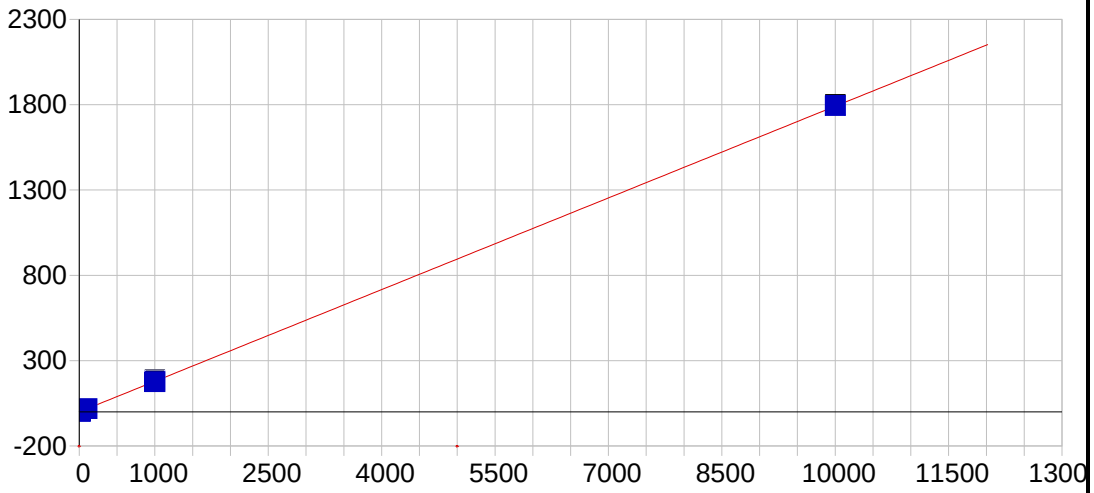


Sb 206.833 {463}

Date of Fit:	12/09/2010 15:06:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000003	Re-Slope:	1.000000
A1 (Gain):	0.000003	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999935	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	3.415680		
Predicted MQL:	11.385598		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00056	-.001	.000	.00000	.000	1
CalibStd=100	1000.0	966.45	-33.6	-3.36	.00279	.000	1
CalibStd=10	10.000	10.185	.185	1.85	.00003	.000	1
CalibStd=50	50.000	53.371	3.37	6.74	.00015	.000	1
CalibStd=100	10000.	10032.	32.1	.321	.02701	.001	1

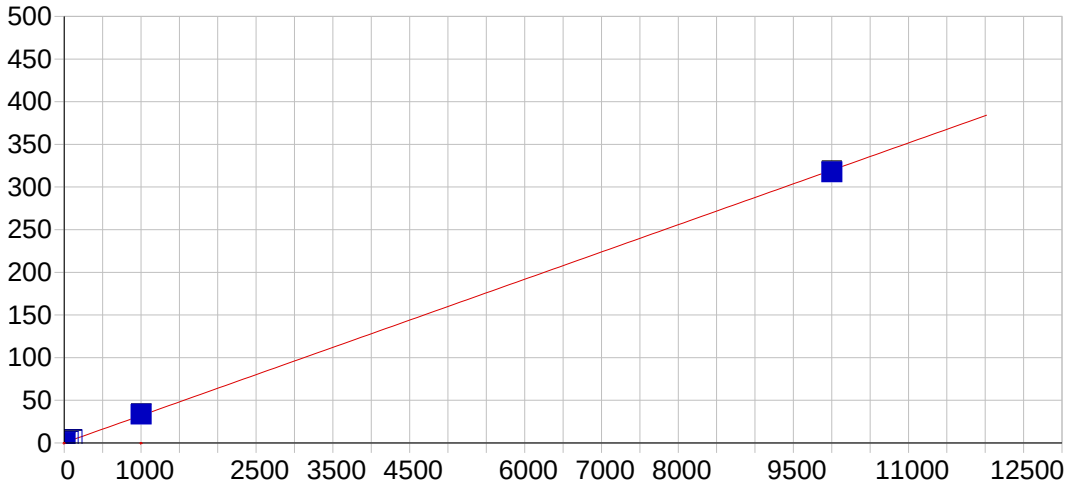


Sb 217.581 {455}

Date of Fit:	12/09/2010 15:06:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.108791	Re-Slope:	1.000000
A1 (Gain):	0.179114	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999963	Status:	OK.
Std Error of Est:	0.019984		
Predicted MDL:	3.632934		
Predicted MQL:	12.109778		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00274	.003	.000	-.10830	.410	1
CalibStd=100	1000.0	984.05	-15.9	-1.59	185.08	.700	1
CalibStd=20	20.000	19.533	-.467	-2.34	3.5689	.504	1
CalibStd=10	10.000	7.7352	-2.26	-22.6	1.3663	.375	1
CalibStd=100	100.00	99.011	-.989	-.989	18.521	.499	1
CalibStd=100	10000.	10021.	20.6	.206	1794.5	3.31	1

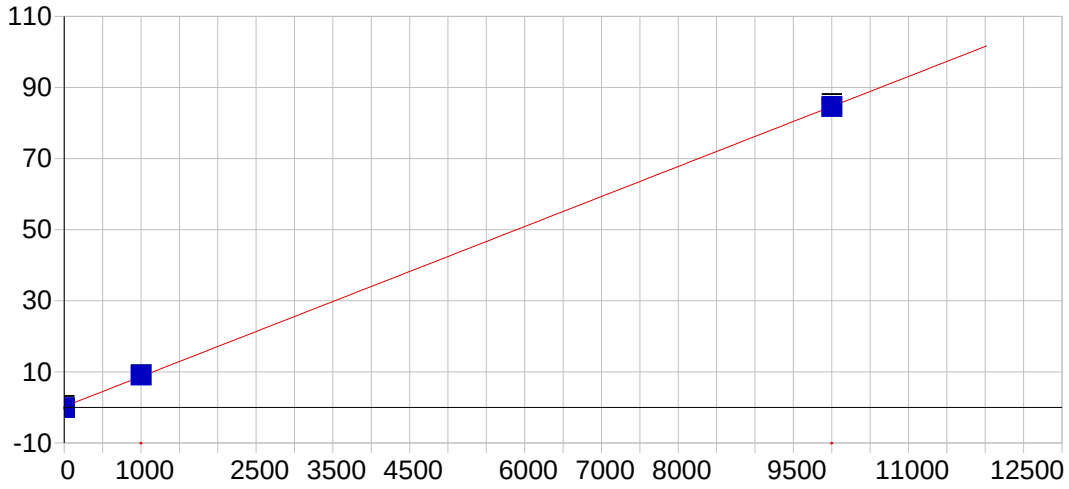


Se 196.090 {472}

Date of Fit:	12/09/2010 15:06:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.199523	Re-Slope:	1.000000
A1 (Gain):	0.031951	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999611	Status:	OK.
Std Error of Est:	0.011524		
Predicted MDL:	10.087391		
Predicted MQL:	33.624637		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00906	-.009	.000	.19923	.189	1
CalibStd=50	50.000	53.827	3.83	7.65	1.9193	.137	1
CalibStd=100	1000.0	1048.0	48.0	4.80	33.674	.182	1
CalibStd=10	10.000	17.244	7.24	72.4	.75048	.098	1
CalibStd=100	100.00	106.39	6.39	6.39	3.5986	.132	1
CalibStd=100	10000.	9934.6	-65.4	-.654	317.54	.789	1

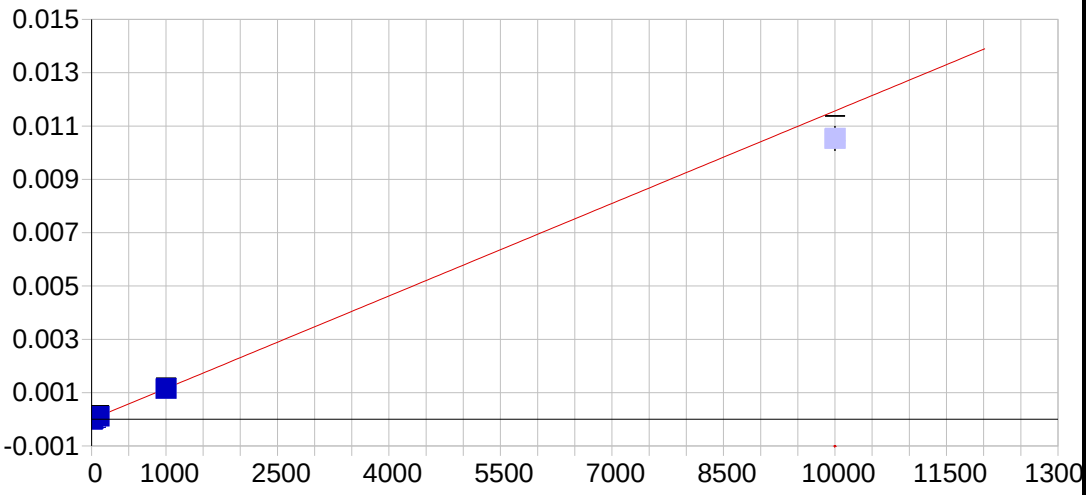


Se 206.279 {463}

Date of Fit:	12/09/2010 15:06:47	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.238662	Re-Slope:	1.000000
A1 (Gain):	0.008442	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999968	Status:	OK.
Std Error of Est:	0.524368		
Predicted MDL:	48.233961		
Predicted MQL:	160.779869		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-41.438	-41.4	.000	-.11116	.509	1
CalibStd=100	1000.0	1046.0	46.0	4.60	9.0747	.048	1
CalibStd=100	10000.	9995.4	-4.60	-.046	84.673	.665	1

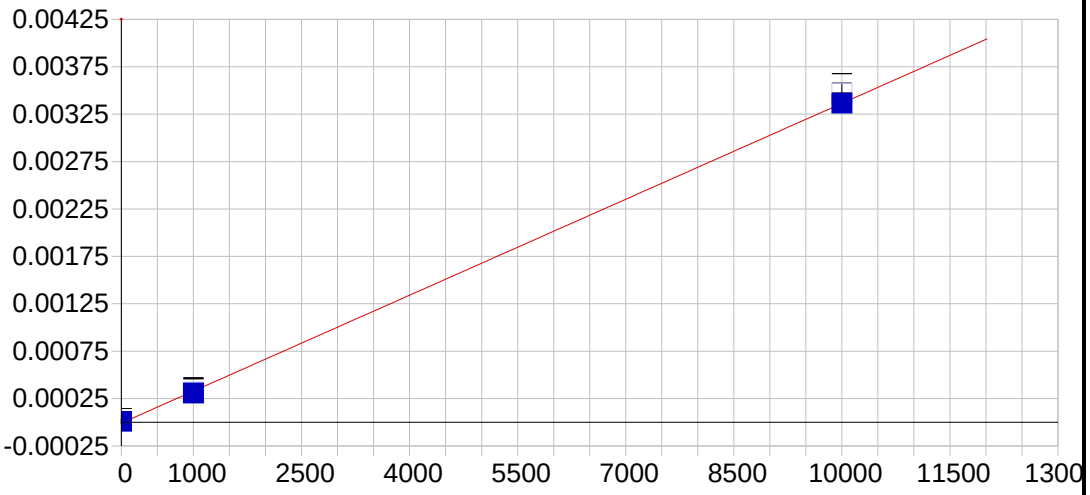


Tl 190.856 {477}

Date of Fit:	12/09/2010 15:06:47	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-0.000001	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999963	Status:	OK.
Std Error of Est:	0.000004		
Predicted MDL:	7.194077		
Predicted MQL:	23.980257		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-1.4803	-1.48	.000	.00000	.000	1
CalibStd=50	50.000	48.366	-1.63	-3.27	.00005	.000	1
CalibStd=100	1000.0	999.73	-.271	-.027	.00116	.000	1
CalibStd=20	20.000	24.887	4.89	24.4	.00003	.000	1
CalibStd=100	100.00	103.00	3.00	3.00	.00012	.000	1
CalibStd=10	10.000	5.5016	-4.50	-45.0	.00001	.000	1
CalibStd=100	10000.	9106.5	-894.	-8.94	.01053	.000	0

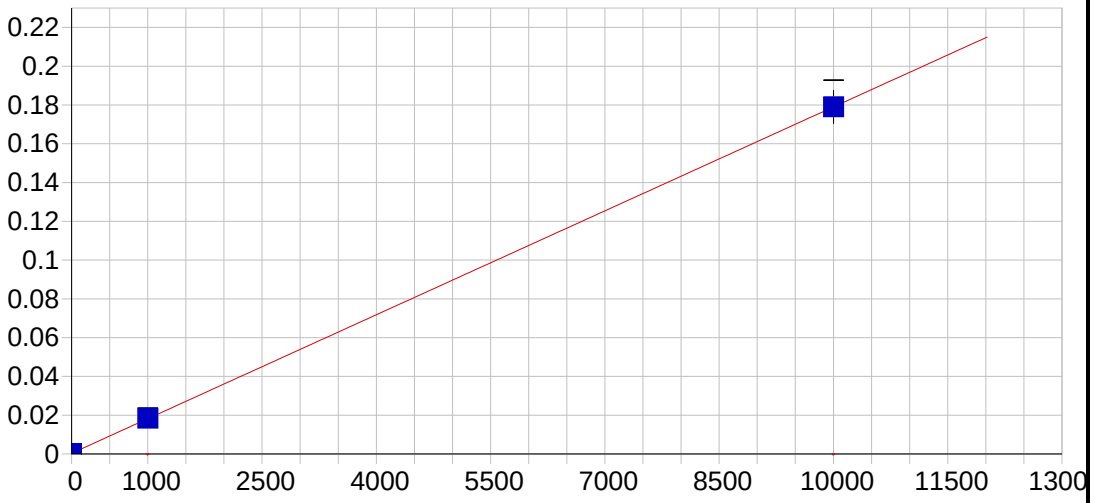


Tl 276.787 {122}

Date of Fit:	12/09/2010 15:06:47	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-0.000009	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999944	Status:	OK.
Std Error of Est:	0.000029		
Predicted MDL:	133.950114		
Predicted MQL:	446.500380		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	56.659	56.7	.000	.00001	.000	1
CalibStd=100	1000.0	937.05	-63.0	-6.30	.00032	.000	1
CalibStd=100	10000.	10006.	6.30	.063	.00347	.000	1

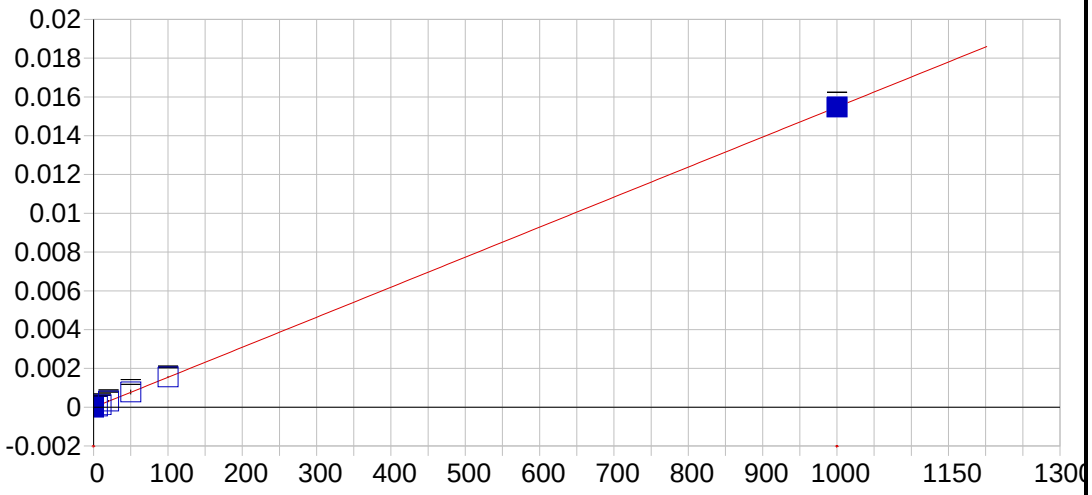


V 290.882 {116}

Date of Fit:	12/09/2010 15:06:47	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000331	Re-Slope:	1.000000
A1 (Gain):	0.000018	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999998	Status:	OK.
Std Error of Est:	0.000293		
Predicted MDL:	3.996109		
Predicted MQL:	13.320363		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-10.929	-10.9	.000	.00014	.000	1
CalibStd=100	1000.0	1012.1	12.1	1.21	.01841	.000	1
CalibStd=100	10000.	9998.8	-1.21	-.012	.17897	.009	1

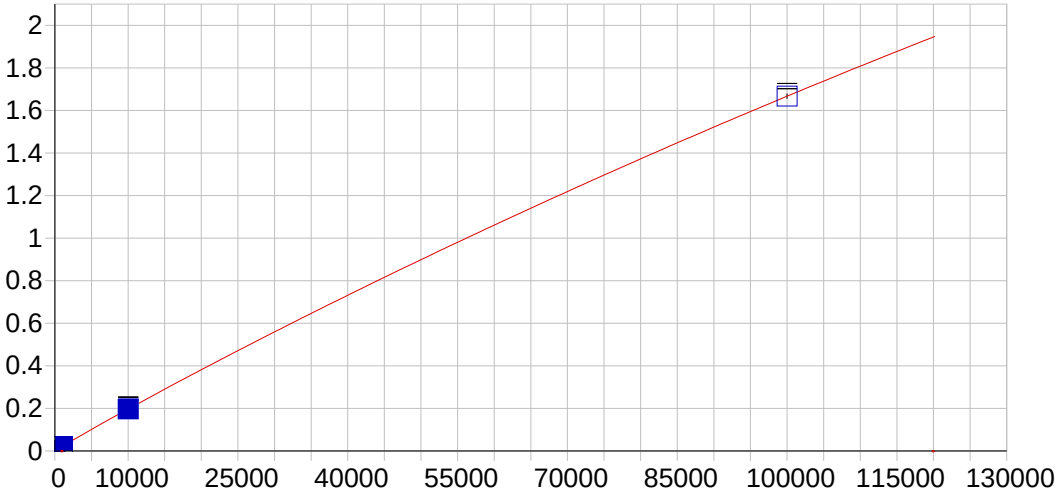


V 292.402 {115}

Date of Fit:	12/09/2010 15:01:23	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-0.000009	Re-Slope:	1.000000
A1 (Gain):	0.000015	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999995	Status:	OK.
Std Error of Est:	0.000019		
Predicted MDL:	4.392894		
Predicted MQL:	14.642979		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.24561	.246	.000	-.00001	.000	1
CalibStd=50	50.000	50.994	.994	1.99	.00078	.000	1
CalibStd=100	1000.0	999.85	-.149	-.015	.01548	.000	1
CalibStd=20	20.000	20.690	.690	3.45	.00031	.000	1
CalibStd=5	5.0000	4.0465	-.954	-19.1	.00005	.000	1
CalibStd=10	10.000	8.0767	-1.92	-19.2	.00012	.000	1
CalibStd=100	100.00	101.10	1.10	1.10	.00156	.000	1

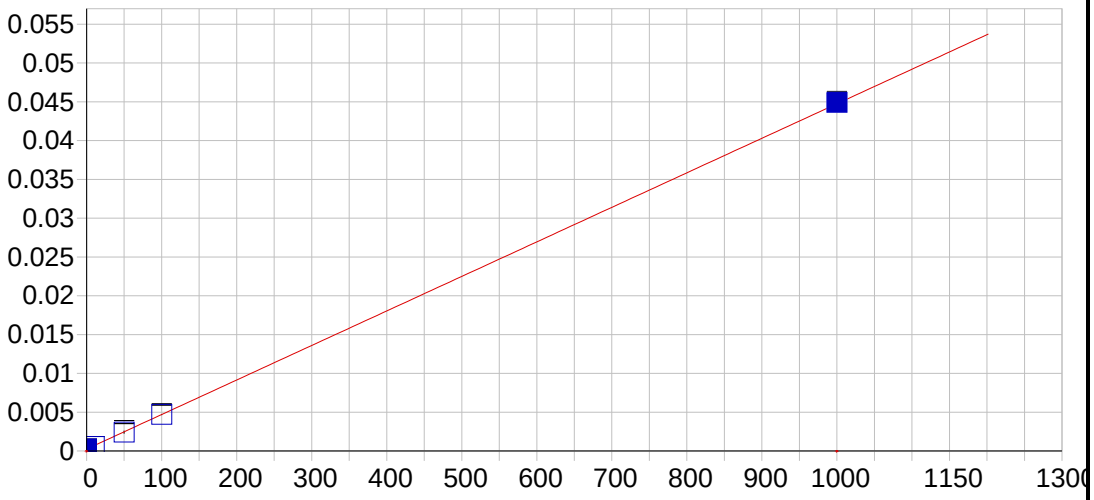


Zn 206.200 {463}

Date of Fit:	12/09/2010 15:12:13	Type of Fit:	Full Fit	Weighting:	None

A0 (Offset):	0.000090	Re-Slope:	1.000000
A1 (Gain):	0.000026	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	0.970000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.321901		
Predicted MQL:	1.073004		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
CalibStd=100	10000.	10000.	.162	.002	.19700	.008	1
CalibStd-100	100000.	100000.	-.002	.000	1.6671	.012	1
Blank	.00000	.86132	.861	.000	.00011	.000	1
CalibStd=100	1000.0	998.75	-1.25	-.125	.02137	.000	1

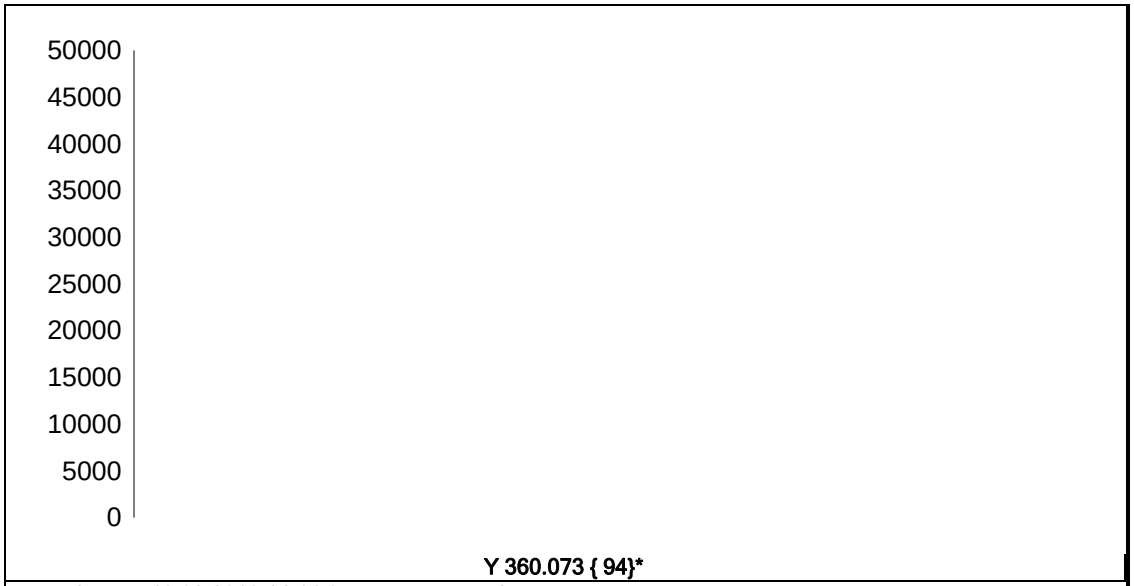


Zn 213.856 {458}

Date of Fit:	12/09/2010 15:01:23	Type of Fit:	Linear	Weighting:	1/Conc

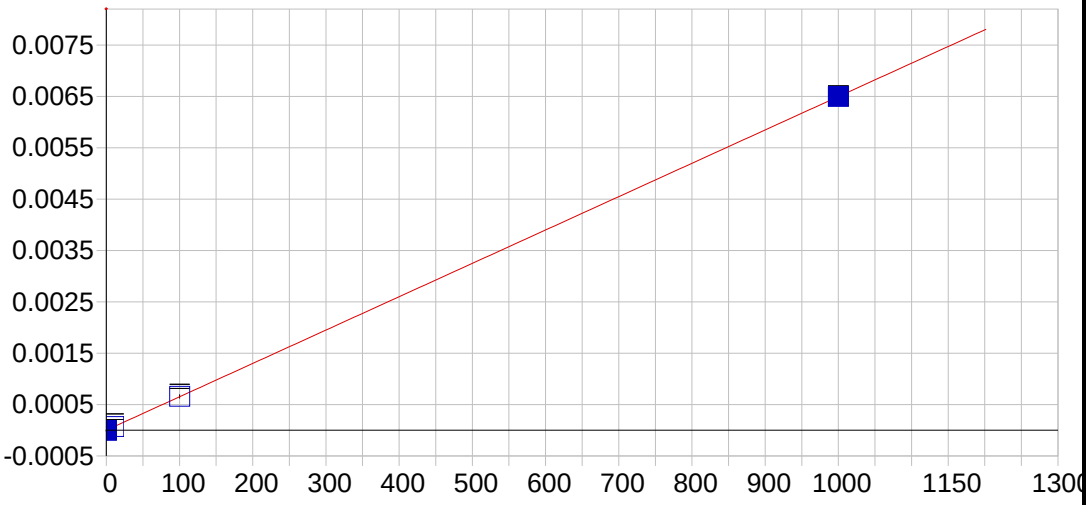
A0 (Offset):	0.000244	Re-Slope:	1.000000
A1 (Gain):	0.000045	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999651	Status:	OK.
Std Error of Est:	0.000005		
Predicted MDL:	0.198099		
Predicted MQL:	0.660329		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00295	.003	.000	.00024	.000	1
CalibStd=100	100.00	99.992	-.008	-.008	.00469	.000	1
CalibStd=50	50.000	48.957	-1.04	-2.09	.00242	.000	1
CalibStd=10	10.000	7.2217	-2.78	-27.8	.00057	.000	1
CalibStd=100	1000.0	1003.8	3.83	.383	.04493	.000	1



Date of Fit:	12/09/2010 14:14:07	Type of Fit:	Linear	Weighting:	None	
A0 (Offset):	0.000000		Re-Slope:	1.000000		
A1 (Gain):	0.000000		Y-int:	0.000000		
A2 (Curvature):	0.000000					
n (Exponent):	1.000000					
Correlation:	0.000000		Status:	Warning	Zero Gain	
Std Error of Est:	0.000000					
Predicted MDL:	n/a					
Predicted MQL:	n/a					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	46764.	395.	1

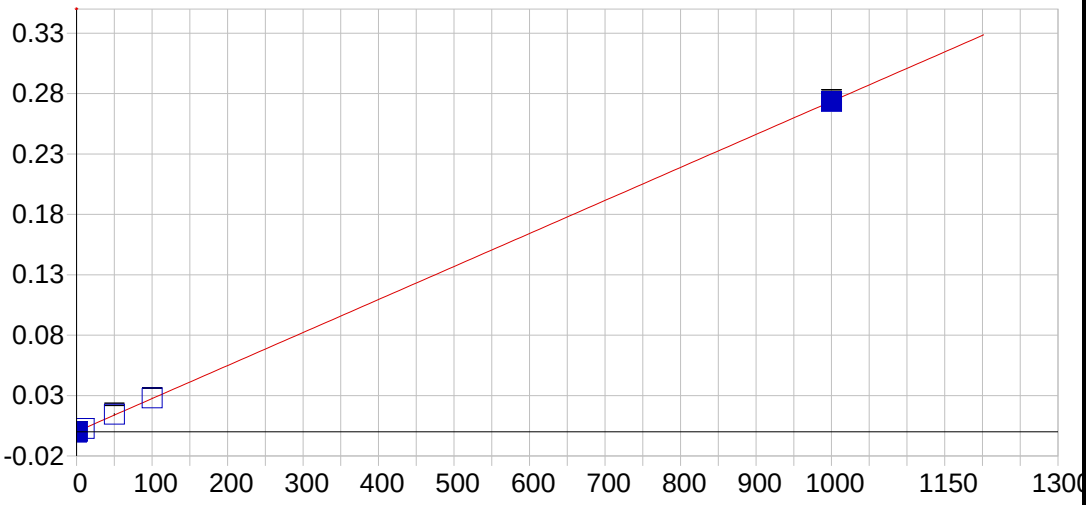


B 249.773 {135}

Date of Fit:	12/09/2010 15:01:23	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000002	Re-Slope:	1.000000
A1 (Gain):	0.000006	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999998	Status:	OK.
Std Error of Est:	0.000007		
Predicted MDL:	5.696604		
Predicted MQL:	18.988681		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-1.1842	-1.18	.000	-.00001	.000	1
CalibStd=10	10.000	10.203	.203	2.03	.00007	.000	1
CalibStd=100	100.00	101.09	1.09	1.09	.00066	.000	1
CalibStd=100	1000.0	999.89	-.111	-.011	.00650	.000	1

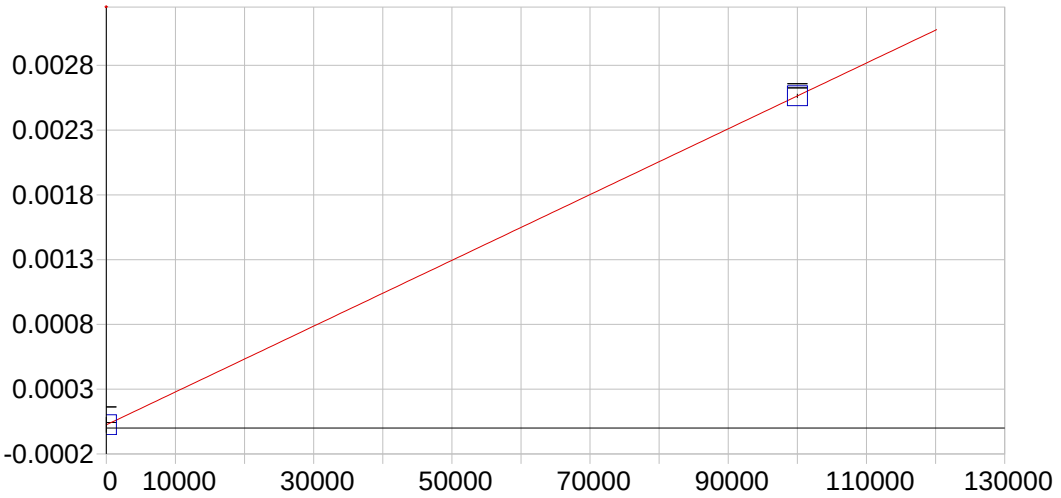


Li 670.784 { 50}

Date of Fit:	12/09/2010 15:01:23	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000155	Re-Slope:	1.000000
A1 (Gain):	0.000273	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999993	Status:	OK.
Std Error of Est:	0.000469		
Predicted MDL:	1.223928		
Predicted MQL:	4.079762		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-1.8024	-1.80	.000	-.00034	.000	1
CalibStd=10	10.000	8.9388	-1.06	-10.6	.00260	.000	1
CalibStd=50	50.000	52.165	2.17	4.33	.01442	.001	1
CalibStd=100	100.00	101.52	1.52	1.52	.02791	.000	1
CalibStd=100	1000.0	999.75	-.249	-.025	.27349	.001	1
CalibStd=1	1.0000	.42526	-.575	-57.5	.00027	.000	1

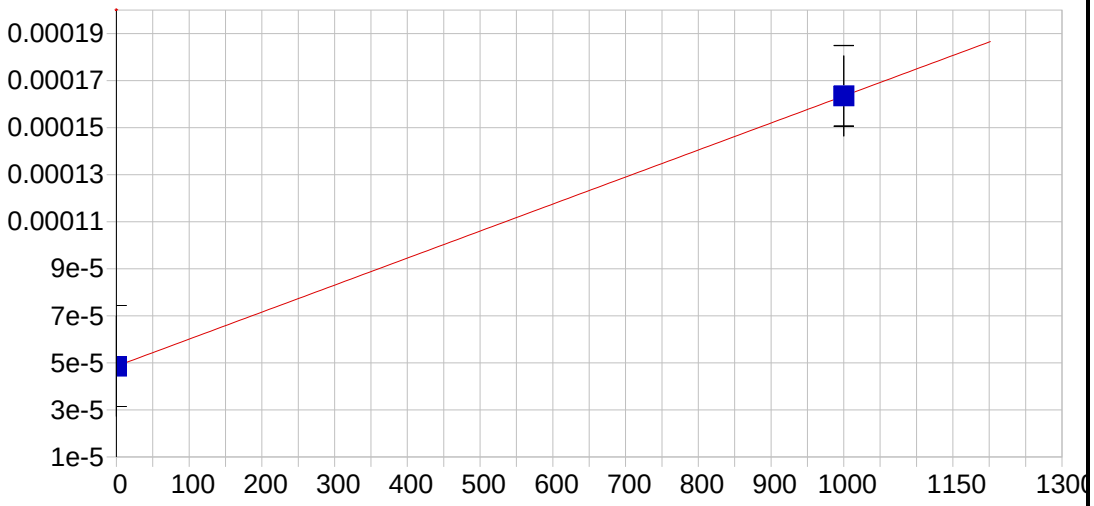


Na 330.298 {102}

Date of Fit:	12/09/2010 15:17:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000025	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	2666.911583		
Predicted MQL:	8889.705276		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00002	.000	1
CalibStd=100	100000.	100000.	.000	.000	.00256	.000	1

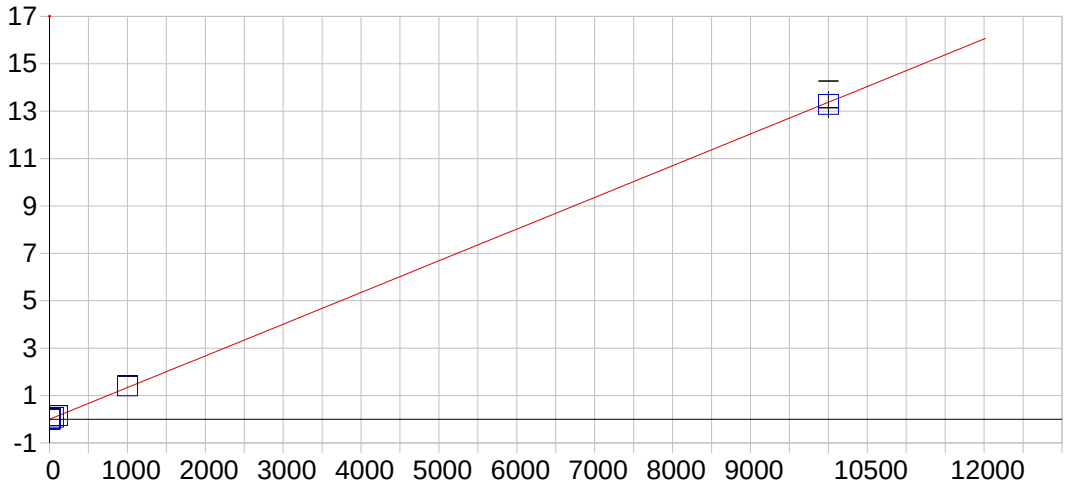


Si 251.611 {134}

Date of Fit:	12/09/2010 15:01:23	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000049	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	321.273392		
Predicted MQL:	1070.911306		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00005	.000	1
CalibStd=100	1000.0	1000.0	.000	.000	.00016	.000	1

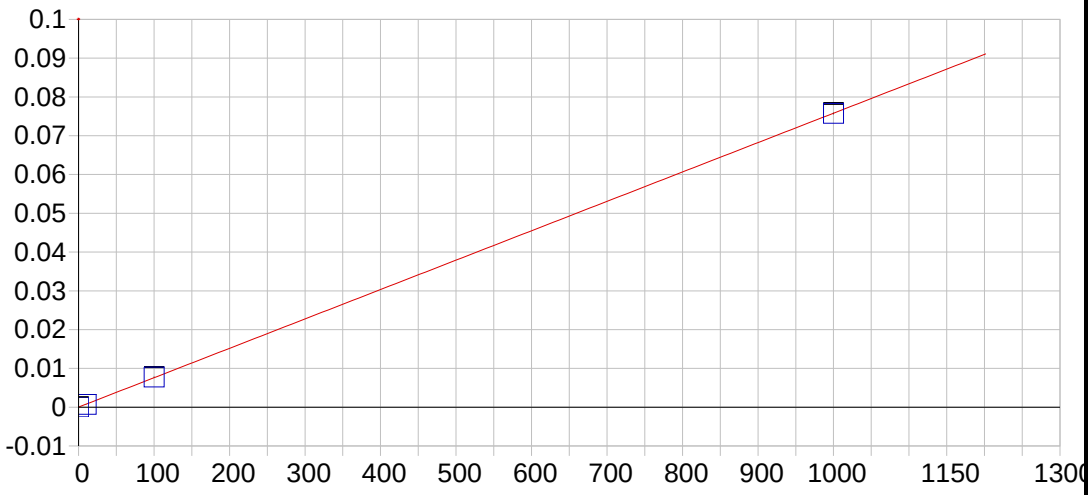


Sr 407.771 { 83}

Date of Fit:	12/09/2010 15:06:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001234	Re-Slope:	1.000000
A1 (Gain):	0.001338	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999763	Status:	OK.
Std Error of Est:	0.000112		
Predicted MDL:	0.087288		
Predicted MQL:	0.290960		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00054	-.001	.000	-.00124	.000	1
CalibStd=1	1.0000	1.0570	.057	5.70	.00018	.000	1
CalibStd=5	5.0000	5.3905	.390	7.81	.00598	.000	1
CalibStd=10	10.000	11.000	1.000	10.00	.01348	.000	1
CalibStd=50	50.000	58.455	8.46	16.9	.07695	.006	1
CalibStd=100	100.00	109.17	9.17	9.17	.14479	.001	1
CalibStd=100	1000.0	1049.3	49.3	4.93	1.4023	.006	1
CalibStd=100	10000.	9931.6	-68.4	-.684	13.283	.563	1



Ti 334.941 {101}

Date of Fit:	12/09/2010 15:01:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000019	Re-Slope:	1.000000
A1 (Gain):	0.000076	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999923	Status:	OK.
Std Error of Est:	0.000004		
Predicted MDL:	0.905839		
Predicted MQL:	3.019463		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00097	.001	.000	.00002	.000	1
CalibStd=10	10.000	8.8497	-1.15	-11.5	.00069	.000	1
CalibStd=100	100.00	101.92	1.92	1.92	.00774	.000	1
CalibStd=100	1000.0	999.23	-.772	-.077	.07575	.000	1

Sample Name: Blank Acquired: 12/09/2010 14:08:53 Type: Cal
Method: DOD Calibration 1(v1308) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	Al3092	Al3961	As1890	As1937	Ba4554	Ba4934	Be2348	Be3130	Ca3179	Ca3933
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.983**	**.488**	**29.5**	**7.70**	**-.209**	**-.537**	**-.934**	**1080.**	**-.497**	**4.34**	**305.**	**4450.**
Stddev	3.00	.022	3.5	1.38	.078	.487	4.36	22.	.294	2.59	18.	3950.
%RSD	306.	4.43	11.9	18.0	37.5	90.8	466.	2.04	59.3	59.7	5.93	88.7

Elem	Ca3968	Cd2265	Cd2288	Co2286	Co2388	Cr2677	Cr2835	Cu2247	Fe2343	Fe2395	Fe2599	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1610.**	**.031**	**1.03**	**.144**	**.908**	**.832**	**2.35**	**5.18**	**1.09**	**1.96**	**6.69**	**.147**
Stddev	1430.	.351	.62	.425	.909	1.07	.98	.16	.78	1.49	2.68	.314
%RSD	88.8	1140.	59.9	294.	100.	128.	41.9	3.10	72.0	76.2	40.1	214.

Elem	Mg2795	Mg2802	Mn2576	Mn2593	Mo2020	Mo2045	Ni2216	Ni2316	Pb2169	Pb2203	Sb2068	Sb2175
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**51.0**	**60.6**	**.590**	**1.49**	**.446**	**.427**	**-.157**	**-.070**	**.519**	**.000**	**.000**	**-.108**
Stddev	39.1	43.8	3.26	3.21	.135	.071	.367	.202	.407	.00	.00	.410
%RSD	76.7	72.4	553.	216.	30.2	16.7	234.	288.	78.4	355.	26.5	378.

Elem	Se1960	Se2062	Tl1908	V_2908	V_2924	Zn2062	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.199**	**-.111**	**.000**	**.000**	**.000**	**.000**	**.000**
Stddev	.189	.509	.00	.000	.00	.000	.000
%RSD	94.6	458.	39.8	30.1	1340.	2.98	5.62

Sample Name: Blank Acquired: 12/09/2010 14:08:53 Type: Cal
Method: DOD Calibration 1(v1308) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Units	Cts/S
Avg	**46764.**
Stddev	395.
%RSD	.84509

Sample Name: CalibStd=0.25 Acquired: 12/09/2010 14:14:10 Type: Cal
Method: DOD Calibration 1(v1308) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Be3130	Cd2265
Units	Cts/S	Cts/S
Avg	**12.0**	**1.61**
Stddev	1.8	.09
%RSD	14.6	5.37

Sample Name: CalibStd=0.5 Acquired: 12/09/2010 14:19:29 Type: Cal
Method: DOD Calibration 1(v1308) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Be3130	Cd2265
Units	Cts/S	Cts/S
Avg	**21.4**	**2.11**
Stddev	1.8	.23
%RSD	8.40	10.8

Sample Name: CalibStd=1 Acquired: 12/09/2010 14:24:48 Type: Cal
Method: DOD Calibration 1(v1308) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Ba4554	Cd2265	Co2286	Cr2677	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.83**	**31.4**	**3.95**	**1.76**	**.067**	**5.78**	**.816**
Stddev	2.65	7.0	.48	.06	.880	1.90	.246
%RSD	145.	22.4	12.0	3.49	1320.	32.9	30.1

Int. Std.	Y_3600
Units	Cts/S
Avg	**47225.**
Stddev	608.
%RSD	1.2884

Sample Name: CalibStd=5 Acquired: 12/09/2010 14:30:07 Type: Cal
Method: DOD Calibration 1(v1308) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	Ba4554	Be3130	Cd2265	Co2286	Cr2677	Cu2247	Mn2576	Mo2020	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6.38**	**.778**	**134.**	**203.**	**22.0**	**8.10**	**2.63**	**9.20**	**21.4**	**2.72**	**4.07**	**.000**
Stddev	3.76	.212	2.	1.	.2	.33	3.46	.55	1.1	.03	.54	.000
%RSD	58.9	27.3	1.13	.596	.877	4.04	132.	5.96	4.97	1.12	13.1	7.85

Elem	V_2924
Units	Cts/S
Avg	**.000**
Stddev	.000
%RSD	47.9

Int. Std.	Y_3600
Units	Cts/S
Avg	**47323.**
Stddev	195.
%RSD	.41109

Sample Name: CalibStd=10 Acquired: 12/09/2010 14:35:27 Type: Cal
Method: DOD Calibration 1(v1308) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Cd2265	Co2286	Cr2677	Cu2247	Mg2795	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**17.7**	**.997**	**-.037**	**282.**	**402.**	**43.9**	**16.2**	**6.11**	**13.9**	**90.4**	**41.5**	**4.95**
Stddev	4.1	.334	.325	1.	4.	.2	.2	.28	.2	4.3	2.6	.28
%RSD	23.5	33.5	885.	.400	1.000	.404	1.03	4.67	1.45	4.74	6.36	5.66

Elem	Ni2316	Pb2203	Sb2068	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**8.69**	**.000**	**.000**	**1.37**	**.750**	**.000**	**.000**	**.001**
Stddev	.42	.000	.000	.38	.098	.000	.000	.000
%RSD	4.90	4.42	5.57	27.5	13.1	205.	40.6	.681

Int. Std.	Y_3600
Units	Cts/S
Avg	**46722.**
Stddev	638.
%RSD	1.3665

Sample Name: CalibStd=20 Acquired: 12/09/2010 14:40:46 Type: Cal
Method: DOD Calibration 1(v1308) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al1670	Ba4554	Cr2677	Fe2599	Mg2795	Mn2576	Mo2020	Ni2316	Sb2175	Tl1908	V_2924
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.99**	**584.**	**14.9**	**17.3**	**172.**	**82.0**	**9.53**	**18.7**	**3.57**	**.000**	**.000**
Stddev	.15	5.	1.7	.7	1.	1.3	.33	.2	.50	.000	.000
%RSD	7.37	.940	11.2	4.00	.723	1.59	3.43	.976	14.1	25.5	17.3

Int. Std.	Y_3600
Units	Cts/S
Avg	**46497.**
Stddev	309.
%RSD	.66392

Sample Name: CalibStd=50 Acquired: 12/09/2010 14:46:03 Type: Cal
Method: DOD Calibration 1(v1308) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al1670	As1937	Ba4554	Ca3933	Cd2265	Co2286	Cr2677	Cr2835	Cu2247	Fe2599	Mg2795	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4.43**	**1.52**	**1440.**	**5700.**	**218.**	**80.3**	**32.1**	**45.2**	**48.5**	**34.1**	**412.**	**203.**
Stddev	.03	.17	3.	23.	1.	.9	.8	2.0	.6	1.9	1.	3.
%RSD	.628	11.4	.175	.406	.603	1.18	2.58	4.45	1.19	5.49	.360	1.41

Elem	Mo2020	Mo2045	Ni2316	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**23.5**	**18.3**	**44.9**	**.000**	**1.92**	**.000**	**.001**	**.002**
Stddev	.0	.2	.9	.000	.14	.000	.000	.000
%RSD	.048	.994	1.92	8.61	7.14	11.3	16.3	7.93

Int. Std.	Y_3600
Units	Cts/S
Avg	**45688.**
Stddev	3418.
%RSD	7.4820

Sample Name: CalibStd=100 Acquired: 12/09/2010 14:51:18 Type: Cal
Method: DOD Calibration 1(v1308) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	As1890	As1937	Ba4554	Be2348	Be3130	Ca3968	Cd2265	Cd2288	Co2286	Cr2677	Cr2835
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**133.**	**2.21**	**2.53**	**2780.**	**263.**	**4240.**	**3740.**	**437.**	**370.**	**165.**	**64.6**	**89.9**
Stddev	1.	.23	.29	20.	2.	18.	9.	1.	1.	.	.1	.8
%RSD	1.03	10.5	11.3	.710	.801	.432	.230	.327	.395	.243	.128	.898

Elem	Cu2247	Fe2599	Mn2576	Mo2020	Mo2045	Ni2216	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**91.9**	**68.4**	**404.**	**46.7**	**35.3**	**154.**	**85.6**	**.001**	**18.5**	**3.60**	**.000**	**.002**
Stddev	.3	2.0	5.	.4	.2	1.	.8	.000	.5	.13	.000	.000
%RSD	.375	2.90	1.34	.846	.475	.346	.894	1.41	2.70	3.66	7.31	2.59

Elem	Zn2138
Units	Cts/S
Avg	**.005**
Stddev	.000
%RSD	1.45

Int. Std.	Y_3600
Units	Cts/S
Avg	**46852.**
Stddev	472.
%RSD	1.0081

Sample Name: CalibStd=1000 Acquired: 12/09/2010 14:56:29 Type: Cal
Method: DOD Calibration 1(v1308) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al1670	Al3092	Al3961	As1890	As1937	Ba4934	Be2348	Be3130	Ca3179	Ca3933	Ca3968
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**73.6**	**256.**	**611.**	**20.1**	**28.0**	**36600.**	**2620.**	**41600.**	**806.**	**96300.**	**34900.**
Stddev	.5	2.	1.	.1	.3	172.	8.	143.	1.	638.	244.
%RSD	.716	.967	.154	.747	1.19	.470	.310	.344	.122	.662	.700

Elem	Cd2265	Cd2288	Co2286	Co2388	Cr2677	Cr2835	Cu2247	Fe2343	Fe2395	Fe2599	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4270.**	**3620.**	**1640.**	**223.**	**624.**	**868.**	**852.**	**69.8**	**184.**	**650.**	**19.7**
Stddev	2.	10.	2.	.	4.	6.	1.	.4	2.	3.	.6
%RSD	.039	.273	.129	.166	.594	.682	.063	.566	.821	.441	2.86

Elem	Mg2802	Mn2576	Mn2593	Mo2020	Mo2045	Ni2216	Ni2316	Pb2169	Pb2203	Sb2068	Sb2175
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**10800.**	**3960.**	**3280.**	**458.**	**351.**	**1530.**	**840.**	**71.6**	**.007**	**.003**	**185.**
Stddev	39.	21.	15.	1.	.	1.	3.	.8	.000	.000	1.
%RSD	.359	.537	.447	.140	.032	.097	.340	1.17	.245	1.11	.378

Elem	Se1960	Se2062	Tl1908	V_2908	V_2924	Zn2062	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**33.7**	**9.07**	**.001**	**.018**	**.015**	**.021**	**.045**
Stddev	.2	.05	.000	.000	.000	.000	.000
%RSD	.541	.526	.615	.285	1.55	.372	.225

Sample Name: CalibStd=1000 Acquired: 12/09/2010 14:56:29 Type: Cal
Method: DOD Calibration 1(v1308) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Units	Cts/S
Avg	**47176.**
Stddev	89.
%RSD	.18807

Sample Name: CalibStd=10000 Acquired: 12/09/2010 15:01:27 Type: Cal
Method: DOD Calibration 1(v1308) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al3092	Al3961	As1890	Ba4934	Ca3179	Ca3968	Co2388	Cr2835	Cu2247	Fe2343
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2280.**	**5950.**	**196.**	**350000.**	**5340.**	**329000.**	**2170.**	**8410.**	**7970.**	**668.**
Stddev	17.	48.	1.	2030.	27.	1930.	16.	63.	9.	6.
%RSD	.762	.811	.257	.580	.502	.585	.715	.750	.116	.854

Elem	Fe2395	Mg2790	Mg2802	Mn2576	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068	Sb2175
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1750.**	**153.**	**102000.**	**38100.**	**31300.**	**3350.**	**14000.**	**656.**	**.027**	**1790.**
Stddev	16.	2.	782.	214.	238.	4.	31.	.	.001	3.
%RSD	.910	1.40	.767	.561	.760	.113	.220	.038	4.39	.184

Elem	Se1960	Se2062	Tl1908	V_2908	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**318.**	**84.7**	**.011**	**.179**	**.197**
Stddev	1.	.7	.000	.009	.008
%RSD	.249	.786	4.45	4.80	4.19

Int. Std.	Y_3600
Units	Cts/S
Avg	**47352.**
Stddev	2007.
%RSD	4.2382

Sample Name: CalibStd-100k Acquired: 12/09/2010 15:06:51 Type: Cal
Method: DOD Calibration 1(v1308) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Cr2835	Mn2593	Pb2169	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**83600.**	**301000.**	**6490.**	**1.67**
Stddev	203.	5110.	11.	.01
%RSD	.242	1.70	.170	.742

Int. Std.	Y_3600
Units	Cts/S
Avg	**46973.**
Stddev	273.
%RSD	.58080

Sample Name: CalibStd=100000 Acquired: 12/09/2010 15:12:17 Type: Cal

Method: DOD Calibration 1(v1308) Mode: IR Corr. Factor: 1.000000

User: NAH ICAP6000: Prep Batch: Post Digestion:

Comment:

Elem	Al3092	Al3961	Ca3179	Fe2343
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**21100.**	**56300.**	**48500.**	**6320.**
Stddev	48.	126.	39.	16.
%RSD	.227	.225	.080	.250

Int. Std.	Y_3600
Units	Cts/S
Avg	**45159.**
Stddev	457.
%RSD	1.0110

Sample Name: CalibStd=500000 Acquired: 12/09/2010 15:17:52 Type: Cal
Method: DOD Calibration 1(v1308) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al3961	Ca3179	Fe2343	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**285000.**	**224000.**	**28900.**	**8090.**
Stddev	1530.	1400.	148.	49.
%RSD	.538	.625	.511	.599

Sample Name: CalibStd-1000k Acquired: 12/09/2010 15:23:33 Type: Cal
Method: DOD Calibration 1(v1308) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al3961	Ca3179	Fe2343	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**548000.**	**407000.**	**52100.**	**15300.**
Stddev	9470.	2760.	140.	56.
%RSD	1.73	.677	.268	.368

Sample Name: icv Acquired: 12/09/2010 15:34:42 Type: QC
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2388	Cr2677	Cu2247	Fe2343
Avg	**122.**	**12700.**	**2130.**	**2080.**	**51.1**	**10500.**	**50.5**	**510.**	**204.**	**259.**	**5150.**
Stddev	2.	37.	13.	8.	.2	42.	.2	11.	4.	1.	24.
%RSD	1.73	.289	.593	.394	.315	.404	.390	2.17	1.75	.305	.458
Check ?	None	None	None	None	None	None	None	None	None	None	None
Value											
Range											

Elem	Mg2790	Mn2576	Mo2020	Ni2216	Pb2203	Sb2068	Se2062	Tl1908	V_2924	Zn2138
Avg	**9440.**	**521.**	**514.**	**530.**	**521.**	**519.**	**2190.**	**2090.**	**514.**	**531.**
Stddev	59.	2.	1.	1.	11.	17.	36.	36.	11.	11.
%RSD	.627	.425	.117	.130	2.09	3.21	1.66	1.74	2.04	2.00
Check ?	None	None	None	None	None	None	None	None	None	None
Value										
Range										

Int. Std.	Y_3600
Avg	**46129.**
Stddev	896.
%RSD	1.9420

Sample Name: icb Acquired: 12/09/2010 15:45:19 Type: QC
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**-.548**	**20.0**	**-4.62**	**.023**	**-.069**	**-11.1**	**-.084**	**-.005**	**.991**	**-.248**	**12.6**	**13.0**
Stddev	2.28	5.6	3.01	.211	.079	2.7	.217	.308	.351	.303	2.9	2.9
%RSD	416.	28.1	65.2	905.	115.	24.0	258.	5750.	35.4	122.	23.0	22.8
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**.084**	**-.361**	**-.945**	**1.30**	**2.53**	**-3.98**	**-2.13**	**-2.33**	**-3.04**
Stddev	.019	.791	.186	.50	.72	6.38	2.21	3.50	.14
%RSD	22.3	219.	19.6	38.8	28.6	160.	104.	150.	4.70
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**46712.**
Stddev	114.
%RSD	.24462

Sample Name: MRL Acquired: 12/09/2010 15:50:36 Type: QC
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	**18.4**	**425.**	**10.9**	**10.00**	**3.93**	**476.**	**5.20**	**10.1**	**7.95**	**11.0**	**286.**	**528.**
Stddev	2.2	2.	12.9	.153	.11	5.	.17	.2	2.39	.2	4.	4.
%RSD	11.9	.586	118.	1.53	2.81	1.04	3.31	2.03	30.1	2.17	1.30	.671
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**11.2**	**10.2**	**10.1**	**11.5**	**21.5**	**7.26**	**20.4**	**9.13**	**9.32**
Stddev	.5	.4	.3	1.8	1.8	8.93	4.5	1.27	.21
%RSD	4.12	4.31	3.30	15.9	8.45	123.	22.0	13.9	2.25
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**46071.**
Stddev	452.
%RSD	.98115

Sample Name: icsa Acquired: 12/09/2010 15:55:52 Type: QC
Method: DOD Calibration 1(v1309) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3961	As1937	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Avg	**.000**	**513000.**	**-.065**	**-.020**	**.061**	**515000.**	**.008**	**.000**	**.000**	**-.002**
Stddev	1.16	703.	15.4	.300	.129	3590.	.308	.24	5.24	.800
%RSD	131e15	.137	23800.	1500.	214.	.697	3620.	70800.	104e6	46500.
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2343	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Avg	**502000.**	**534000.**	**.000**	**.000**	**.018**	**.096**	**-.084**	**-.021**	**-.115**	**-.266**
Stddev	900.	2360.	.128	.67	.518	2.80	7.30	15.0	1.45	3.08
%RSD	.179	.442	27e6	1220000.	2860.	2910.	8660.	72500.	1270.	1160.
Check ?	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Zn2138
Avg	**.000**
Stddev	1.66
%RSD	1070000.
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: icsa Acquired: 12/09/2010 15:55:52 Type: QC
Method: DOD Calibration 1(v1309) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Avg	**42120.**
Stddev	532.
%RSD	1.2621

Sample Name: icsab Acquired: 12/09/2010 16:01:35 Type: QC
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be2348	Ca3179	Cd2288	Co2388	Cr2677	Cu2247
Avg	**459.**	**520000.**	**467.**	**460.**	**482.**	**522000.**	**427.**	**571.**	**486.**	**447.**
Stddev	2.	2980.	11.	3.	2.	3260.	.	12.	3.	3.
%RSD	.328	.573	2.42	.625	.492	.625	.054	2.14	.622	.770
Check ?	None	None	None	None	None	None	None	None	None	None
Value										
Range										

Elem	Fe2343	Mg2790	Mn2576	Mo2020	Ni2216	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Avg	**514000.**	**498000.**	**476.**	**435.**	**430.**	**443.**	**539.**	**435.**	**450.**	**542.**
Stddev	2370.	1100.	2.	2.	1.	2.	12.	9.	18.	4.
%RSD	.461	.221	.419	.402	.125	.486	2.17	2.03	3.93	.782
Check ?	None	None	None	None	None	None	None	None	None	None
Value										
Range										

Elem	Zn2138
Avg	**494.**
Stddev	6.
%RSD	1.15
Check ?	None
Value	
Range	

Sample Name: icsab Acquired: 12/09/2010 16:01:35 Type: QC
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Avg	**41983.**
Stddev	369.
%RSD	.87987

Sample Name: ccv1 Acquired: 12/09/2010 17:02:21 Type: QC
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be2348	Ca3968	Cd2288	Co2388	Cr2835	Cu2247	Fe2395	Mg2802
Avg	**487.**	**5370.**	**5260.**	**4780.**	**490.**	**5480.**	**496.**	**5370.**	**5420.**	**5400.**	**5330.**	**5440.**
Stddev	5.	48.	4.	63.	5.	57.	.	16.	36.	9.	8.	21.
%RSD	.952	.896	.084	1.32	1.07	1.04	.023	.288	.660	.158	.146	.389
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2593	Mo2045	Ni2216	Pb2169	Sb2175	Se2062	Tl1908	V_2908	Zn2062
Avg	**5070.**	**5110.**	**4880.**	**5140.**	**5380.**	**4970.**	**5420.**	**5070.**	**5320.**
Stddev	62.	19.	21.	13.	15.	25.	20.	47.	28.
%RSD	1.21	.369	.438	.245	.280	.494	.369	.919	.517
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**45891.**
Stddev	150.
%RSD	.32703

Sample Name: ccv2 Acquired: 12/09/2010 17:07:30 Type: QC
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4934	Be3130	Ca3933	Cd2265	Co2388	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**48.9**	**524.**	**531.**	**481.**	**51.3**	**481.**	**50.8**	**515.**	**527.**	**529.**	**471.**	**532.**
Stddev	.9	1.	17.	3.	.2	2.	.2	6.	3.	1.	2.	4.
%RSD	1.82	.170	3.26	.553	.482	.508	.475	1.26	.486	.120	.371	.819
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**512.**	**486.**	**529.**	**509.**	**516.**	**524.**	**536.**	**502.**	**502.**
Stddev	2.	1.	3.	2.	1.	12.	4.	4.	2.
%RSD	.462	.278	.502	.305	.158	2.27	.740	.736	.449
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**46099.**
Stddev	275.
%RSD	.59546

Sample Name: ccb Acquired: 12/09/2010 17:17:53 Type: QC
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**-.579**	**1.43**	**-1.10**	**-.253**	**-.106**	**-14.7**	**.004**	**-.174**	**-2.78**	**-.355**	**-1.98**	**1.27**
Stddev	.454	2.67	2.37	.248	.102	.0	.011	.086	2.72	.290	.54	.15
%RSD	78.4	187.	217.	97.9	95.6	.006	255.	49.6	98.0	81.7	27.3	11.5
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**.423**	**.138**	**-.346**	**1.04**	**1.01**	**2.64**	**-5.94**	**.814**	**-2.84**
Stddev	.120	.064	.357	1.31	.34	1.04	.16	3.68	.15
%RSD	28.3	46.1	103.	126.	34.1	39.3	2.75	453.	5.23
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**47005.**
Stddev	226.
%RSD	.48027

Sample Name: lcss35624 Acquired: 12/09/2010 18:08:12 Type: Unk
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2388	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**87.0**	**4090.**	**3620.**	**3780.**	**90.1**	**190000.**	**82.6**	**888.**	**352.**	**415.**
Stddev	3.2	42.	24.	35.	1.1	1320.	.1	18.	1.	1.
%RSD	3.63	1.02	.652	.918	1.25	.695	.135	2.03	.344	.315

Elem	Fe2395	Mg2790	Mn2576	Mo2020	Ni2216	Pb2203	Sb2068	Se2062	Tl1908	V_2908
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1890.**	**116000.**	**917.**	**-.676**	**877.**	**875.**	**984.**	**3480.**	**3370.**	**1020.**
Stddev	11.	818.	10.	.270	2.	8.	14.	31.	54.	3.
%RSD	.561	.708	1.08	40.0	.189	.900	1.46	.875	1.60	.323

Elem	Zn2138
Units	ug/L
Avg	**942.**
Stddev	11.
%RSD	1.14

Int. Std.	Y_3600
Units	Cts/S
Avg	**43374.**
Stddev	492.
%RSD	1.1335

Sample Name: mbw35624 Acquired: 12/09/2010 18:13:38 Type: Unk
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-.014**	**77.2**	**-4.59**	**1.19**	**-.055**	**68.7**	**.051**	**-.056**	**.162**	**-.080**	**159.**	**28.1**
Stddev	2.33	.9	4.48	.18	.048	.2	.101	.097	2.90	.106	1.	.1
%RSD	16600.	1.15	97.7	14.9	86.9	.229	196.	174.	1800.	133.	.706	.399

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**10.0**	**-.235**	**-.616**	**-.108**	**.713**	**.748**	**-1.89**	**-.601**	**-2.28**
Stddev	.5	.531	.353	1.31	1.59	5.65	4.00	3.14	.18
%RSD	4.96	226.	57.3	1210.	223.	756.	212.	522.	7.81

Int. Std.	Y_3600
Units	Cts/S
Avg	**46372.**
Stddev	235.
%RSD	.50683

Sample Name: ccv1 Acquired: 12/09/2010 18:18:57 Type: QC
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be2348	Ca3179	Cd2288	Co2388	Cr2835	Cu2247	Fe2343	Mg2790
Avg	**496.**	**5450.**	**5190.**	**5140.**	**507.**	**5320.**	**514.**	**5230.**	**5260.**	**5330.**	**5380.**	**5310.**
Stddev	4.	42.	14.	15.	1.	13.	1.	9.	7.	10.	9.	29.
%RSD	.763	.771	.263	.290	.128	.242	.153	.173	.139	.194	.159	.540
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2593	Mo2045	Ni2216	Pb2169	Sb2175	Se2062	Tl1908	V_2908	Zn2062
Avg	**5280.**	**5150.**	**5130.**	**5220.**	**5130.**	**5150.**	**5150.**	**5200.**	**5300.**
Stddev	25.	9.	10.	26.	30.	75.	30.	38.	23.
%RSD	.481	.180	.194	.492	.593	1.45	.590	.732	.429
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**46230.**
Stddev	111.
%RSD	.24061

Sample Name: ccv2 Acquired: 12/09/2010 18:24:06 Type: QC
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1890	Ba4934	Be3130	Ca3933	Cd2265	Co2388	Cr2677	Cu2247	Fe2599	Mg2802
Avg	**50.4**	**526.**	**504.**	**470.**	**49.0**	**478.**	**50.4**	**502.**	**495.**	**527.**	**468.**	**517.**
Stddev	3.4	5.	6.	6.	.4	5.	.2	2.	1.	2.	11.	4.
%RSD	6.69	.996	1.18	1.30	.758	1.07	.396	.487	.180	.284	2.36	.759
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**505.**	**477.**	**531.**	**505.**	**519.**	**518.**	**525.**	**499.**	**501.**
Stddev	3.	1.	3.	8.	7.	10.	10.	12.	9.
%RSD	.534	.135	.477	1.55	1.40	1.84	1.98	2.33	1.72
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**45972.**
Stddev	783.
%RSD	1.7035

Sample Name: ccb Acquired: 12/09/2010 18:34:30 Type: QC
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**-2.12**	**-.220**	**2.65**	**.332**	**-.104**	**-14.7**	**.041**	**.009**	**.377**	**-.647**	**1.42**	**.711**
Stddev	1.76	1.81	3.64	.109	.085	.1	.117	.037	1.93	.227	.61	.211
%RSD	82.9	824.	137.	33.0	81.7	.377	284.	415.	513.	35.1	43.3	29.7
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**.150**	**-.032**	**-.778**	**.572**	**2.29**	**.405**	**-8.42**	**-4.70**	**-2.69**
Stddev	.462	.205	.700	1.52	2.54	2.32	7.84	9.33	.12
%RSD	308.	647.	90.0	266.	111.	573.	93.1	198.	4.32
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**44442.**
Stddev	1163.
%RSD	2.6171

Sample Name: 870188 Acquired: 12/09/2010 18:39:49 Type: Unk
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-2.76**	**228000.**	**199.**	**2000.**	**12.9**	**236000.**	**11.3**	**153.**	**367.**	**183.**
Stddev	.74	2480.	5.	27.	.1	1330.	.5	.	5.	2.
%RSD	27.0	1.09	2.32	1.35	.992	.564	4.57	.040	1.35	1.21

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2216	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**473000.**	**39000.**	**29400.**	**23.9**	**341.**	**359.**	**.647**	**25.1**	**2.21**	**480.**
Stddev	3040.	469.	299.	1.0	.	9.	3.64	7.5	4.52	7.
%RSD	.642	1.20	1.02	4.15	.137	2.47	563.	30.1	204.	1.38

Elem	Zn2138
Units	ug/L
Avg	**980.**
Stddev	16.
%RSD	1.67

Int. Std.	Y_3600
Units	Cts/S
Avg	**45230.**
Stddev	707.
%RSD	1.5638

Sample Name: 870189 Acquired: 12/09/2010 18:45:12 Type: Unk
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-.841**	**261000.**	**219.**	**2470.**	**12.8**	**86000.**	**17.8**	**181.**	**2280.**	**202.**
Stddev	1.48	4480.	11.	32.	.3	1220.	.6	2.	39.	3.
%RSD	176.	1.71	4.96	1.31	2.15	1.41	3.55	1.28	1.72	1.27

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2169	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**585000.**	**45000.**	**29600.**	**25.4**	**290.**	**626.**	**966.**	**35.6**	**13.6**	**490.**
Stddev	9380.	892.	383.	1.0	23.	40.	66.	8.0	2.7	37.
%RSD	1.60	1.99	1.29	3.79	8.04	6.38	6.82	22.6	19.7	7.46

Elem	Zn2062
Units	ug/L
Avg	**1250.**
Stddev	86.
%RSD	6.85

Int. Std.	Y_3600
Units	Cts/S
Avg	**46637.**
Stddev	3211.
%RSD	6.8850

Sample Name: I870189 Acquired: 12/09/2010 18:50:41 Type: Unk
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3092	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.396**	**52700.**	**-18.1**	**530.**	**2.57**	**17800.**	**5.03**	**41.7**	**518.**	**46.4**
Stddev	2.85	626.	13.5	8.	.07	240.	.25	.6	12.	.8
%RSD	721.	1.19	74.8	1.52	2.65	1.35	5.00	1.54	2.37	1.73

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**115000.**	**8050.**	**6530.**	**4.57**	**58.1**	**286.**	**207.**	**2.18**	**-6.82**	**106.**
Stddev	1620.	189.	130.	.53	.3	7.	9.	5.00	2.61	3.
%RSD	1.40	2.34	2.00	11.6	.570	2.52	4.18	229.	38.2	2.54

Elem	Zn2138
Units	ug/L
Avg	**292.**
Stddev	6.
%RSD	2.05

Int. Std.	Y_3600
Units	Cts/S
Avg	**46860.**
Stddev	379.
%RSD	.80816

Sample Name: dup870189 Acquired: 12/09/2010 18:56:04 Type: Unk
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**2.20**	**245000.**	**165.**	**2470.**	**12.1**	**81300.**	**9.46**	**141.**	**2220.**	**141.**
Stddev	4.00	21600.	21.	221.	1.1	7020.	1.07	12.	179.	12.
%RSD	182.	8.82	12.4	8.93	9.03	8.63	11.3	8.65	8.05	8.19

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2169	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**544000.**	**48900.**	**28800.**	**20.2**	**232.**	**258.**	**771.**	**40.3**	**16.5**	**492.**
Stddev	49100.	3690.	2490.	2.0	50.	35.	67.	9.4	6.7	46.
%RSD	9.03	7.55	8.64	10.1	21.4	13.6	8.71	23.4	40.3	9.28

Elem	Zn2062
Units	ug/L
Avg	**1010.**
Stddev	93.
%RSD	9.23

Int. Std.	Y_3600
Units	Cts/S
Avg	**45425.**
Stddev	201.
%RSD	.44175

Sample Name: mss870189 Acquired: 12/09/2010 19:01:31 Type: Unk
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2388	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**49.0**	**368000.**	**1750.**	**4470.**	**60.8**	**182000.**	**43.9**	**916.**	**1860.**	**324.**
Stddev	1.5	25500.	95.	290.	4.2	11900.	1.8	51.	123.	10.
%RSD	2.95	6.94	5.46	6.50	6.87	6.53	4.01	5.52	6.59	3.18

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2216	Pb2169	Sb2068	Se2062	Tl1908	V_2908
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**634000.**	**108000.**	**27600.**	**20.8**	**621.**	**328.**	**852.**	**1230.**	**1480.**	**1040.**
Stddev	43700.	7300.	1760.	1.4	29.	46.	61.	82.	104.	101.
%RSD	6.90	6.75	6.38	6.47	4.71	14.1	7.14	6.72	7.04	9.78

Elem	Zn2062
Units	ug/L
Avg	**1480.**
Stddev	115.
%RSD	7.79

Int. Std.	Y_3600
Units	Cts/S
Avg	**43177.**
Stddev	2385.
%RSD	5.5247

Sample Name: msds870189 Acquired: 12/09/2010 19:06:57 Type: Unk
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2388	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**40.0**	**310000.**	**1750.**	**3690.**	**51.6**	**156000.**	**51.4**	**757.**	**1680.**	**353.**
Stddev	3.3	1210.	22.	26.	.3	729.	.1	12.	1.	1.
%RSD	8.25	.391	1.27	.702	.641	.468	.240	1.56	.058	.312

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2169	Sb2068	Se2062	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**544000.**	**86200.**	**22900.**	**20.3**	**642.**	**778.**	**923.**	**1290.**	**1440.**	**873.**
Stddev	3350.	267.	107.	.1	4.	13.	10.	5.	14.	16.
%RSD	.616	.310	.467	.589	.608	1.65	1.04	.421	.989	1.80

Elem	Zn2062
Units	ug/L
Avg	**1450.**
Stddev	17.
%RSD	1.18

Int. Std.	Y_3600
Units	Cts/S
Avg	**44345.**
Stddev	488.
%RSD	1.1004

Sample Name: pdss870189 Acquired: 12/09/2010 19:12:20 Type: Unk
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2388	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**85.2**	**419000.**	**3570.**	**5590.**	**95.7**	**453000.**	**85.3**	**1230.**	**1930.**	**548.**
Stddev	4.2	4000.	26.	75.	.8	8030.	.3	15.	4.	2.
%RSD	4.98	.955	.735	1.34	.844	1.77	.313	1.19	.210	.346

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2216	Pb2169	Sb2068	Se2062	Tl1908	V_2908
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**665000.**	**230000.**	**36200.**	**20.4**	**973.**	**896.**	**1670.**	**3080.**	**3270.**	**1330.**
Stddev	5260.	1430.	242.	.8	2.	8.	33.	42.	80.	30.
%RSD	.790	.621	.667	3.97	.195	.930	2.01	1.36	2.45	2.27

Elem	Zn2062
Units	ug/L
Avg	**1810.**
Stddev	36.
%RSD	1.99

Int. Std.	Y_3600
Units	Cts/S
Avg	**42784.**
Stddev	864.
%RSD	2.0198

Sample Name: 870190 Acquired: 12/09/2010 19:17:53 Type: Unk
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.061**	**226000.**	**187.**	**1540.**	**10.1**	**28400.**	**12.4**	**165.**	**1610.**	**213.**
Stddev	1.68	1220.	9.	12.	.1	131.	.3	.	14.	2.
%RSD	2760.	.539	4.99	.792	1.03	.460	2.66	.168	.866	.801

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**480000.**	**31600.**	**24800.**	**24.2**	**268.**	**554.**	**19.5**	**18.1**	**10.3**	**473.**
Stddev	3040.	48.	67.	.6	1.	7.	1.7	8.0	9.5	6.
%RSD	.633	.151	.268	2.58	.197	1.25	8.77	44.4	92.4	1.27

Elem	Zn2062
Units	ug/L
Avg	**1040.**
Stddev	9.
%RSD	.897

Int. Std.	Y_3600
Units	Cts/S
Avg	**44745.**
Stddev	420.
%RSD	.93957

Sample Name: 870191 Acquired: 12/09/2010 19:23:25 Type: Unk
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-4.26**	**233000.**	**288.**	**1560.**	**12.5**	**175000.**	**10.0**	**155.**	**543.**	**265.**
Stddev	1.64	1170.	21.	12.	.2	250.	.1	1.	5.	.
%RSD	38.4	.501	7.20	.795	1.48	.143	.773	.323	.871	.117

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**460000.**	**53100.**	**16700.**	**18.4**	**380.**	**789.**	**18300.**	**-14.5**	**17.4**	**385.**
Stddev	1230.	738.	106.	1.1	1.	27.	15.	10.1	4.0	10.
%RSD	.268	1.39	.637	5.78	.370	3.46	.080	69.8	23.3	2.59

Elem	Zn2062
Units	ug/L
Avg	**1430.**
Stddev	45.
%RSD	3.12

Int. Std.	Y_3600
Units	Cts/S
Avg	**45418.**
Stddev	1214.
%RSD	2.6734

Sample Name: 870192 Acquired: 12/09/2010 19:28:43 Type: Unk
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-3.67**	**271000.**	**178.**	**1940.**	**14.3**	**181000.**	**8.39**	**162.**	**497.**	**208.**
Stddev	1.63	4520.	7.	48.	.2	2230.	.43	1.	10.	2.
%RSD	44.3	1.67	4.19	2.48	1.35	1.24	5.12	.405	1.96	.920

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**526000.**	**47600.**	**27700.**	**25.8**	**275.**	**523.**	**432.**	**.349**	**13.5**	**547.**
Stddev	6490.	1190.	515.	.6	1.	20.	19.	10.0	11.9	33.
%RSD	1.23	2.50	1.86	2.27	.221	3.82	4.49	2860.	87.9	6.01

Elem	Zn2062
Units	ug/L
Avg	**1450.**
Stddev	53.
%RSD	3.68

Int. Std.	Y_3600
Units	Cts/S
Avg	**44006.**
Stddev	1477.
%RSD	3.3562

Sample Name: ccv1 Acquired: 12/09/2010 19:34:04 Type: QC
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be2348	Ca3179	Cd2288	Co2388	Cr2835	Cu2247	Fe2395	Mg2802
Avg	**470.**	**5180.**	**5160.**	**4470.**	**467.**	**5430.**	**482.**	**5240.**	**5290.**	**5400.**	**5210.**	**5320.**
Stddev	4.	40.	23.	18.	3.	8.	1.	35.	8.	5.	9.	12.
%RSD	.884	.777	.443	.411	.588	.152	.141	.659	.156	.094	.179	.232
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2593	Mo2045	Ni2216	Pb2169	Sb2175	Se2062	Tl1908	V_2908	Zn2062
Avg	**4700.**	**4940.**	**4560.**	**5070.**	**5460.**	**4750.**	**4510.**	**4880.**	**5220.**
Stddev	27.	10.	13.	19.	20.	72.	84.	111.	102.
%RSD	.579	.205	.276	.379	.365	1.51	1.86	2.29	1.96
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**44588.**
Stddev	892.
%RSD	1.9994

Sample Name: ccv2 Acquired: 12/09/2010 19:39:13 Type: QC
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1890	Ba4934	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**47.1**	**541.**	**493.**	**438.**	**48.5**	**467.**	**50.3**	**464.**	**512.**	**532.**	**449.**	**455.**
Stddev	2.9	4.	4.	4.	.4	4.	.1	1.	4.	2.	4.	2.
%RSD	6.12	.829	.735	.964	.812	.753	.262	.153	.735	.359	.807	.415
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2216	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**498.**	**476.**	**465.**	**513.**	**554.**	**511.**	**467.**	**506.**	**509.**
Stddev	3.	1.	3.	3.	1.	11.	5.	3.	3.
%RSD	.604	.179	.707	.671	.213	2.15	1.04	.666	.683
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**44807.**
Stddev	363.
%RSD	.81114

Sample Name: ccb Acquired: 12/09/2010 19:49:37 Type: QC
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**-.750**	**.670**	**-2.69**	**.352**	**.003**	**-13.9**	**-.054**	**-.213**	**-1.66**	**-.834**	**4.47**	**.944**
Stddev	1.44	1.49	1.37	.039	.048	.3	.041	.029	2.72	.099	1.93	.257
%RSD	193.	222.	50.8	11.0	1520.	2.24	76.1	13.7	164.	11.9	43.1	27.2
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**.152**	**-.300**	**-.192**	**.515**	**1.43**	**.981**	**.403**	**.113**	**-2.68**
Stddev	.027	.311	.441	.235	3.29	2.79	5.76	2.25	.17
%RSD	17.7	104.	230.	45.6	231.	284.	1430.	2000.	6.37
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**46060.**
Stddev	666.
%RSD	1.4462

Sample Name: 870193 Acquired: 12/09/2010 19:54:55 Type: Unk
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-2.85**	**269000.**	**166.**	**2000.**	**11.9**	**86900.**	**10.9**	**171.**	**2450.**	**229.**
Stddev	2.54	1450.	7.	8.	.2	361.	.5	1.	14.	3.
%RSD	89.2	.539	4.36	.406	1.41	.415	4.44	.522	.592	1.38

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2216	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**512000.**	**36200.**	**24900.**	**27.6**	**310.**	**460.**	**31.3**	**9.85**	**15.2**	**528.**
Stddev	2410.	238.	155.	.4	.	5.	4.0	3.91	9.1	9.
%RSD	.470	.657	.623	1.45	.038	1.11	12.7	39.7	59.9	1.63

Elem	Zn2062
Units	ug/L
Avg	**2040.**
Stddev	33.
%RSD	1.60

Int. Std.	Y_3600
Units	Cts/S
Avg	**44356.**
Stddev	607.
%RSD	1.3678

Sample Name: 870194 Acquired: 12/09/2010 20:00:17 Type: Unk
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-5.68**	**249000.**	**210.**	**1870.**	**14.4**	**131000.**	**11.1**	**187.**	**1870.**	**273.**
Stddev	2.55	752.	11.	9.	.0	181.	.4	.	11.	1.
%RSD	44.9	.303	5.32	.503	.343	.138	4.04	.130	.586	.293

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**543000.**	**44200.**	**19800.**	**27.2**	**408.**	**514.**	**31.1**	**-.076**	**17.7**	**514.**
Stddev	1310.	286.	64.	1.2	1.	6.	2.0	9.03	6.2	9.
%RSD	.241	.647	.325	4.23	.337	1.12	6.34	11900.	35.2	1.68

Elem	Zn2062
Units	ug/L
Avg	**1200.**
Stddev	21.
%RSD	1.73

Int. Std.	Y_3600
Units	Cts/S
Avg	**44462.**
Stddev	586.
%RSD	1.3183

Sample Name: 870195 Acquired: 12/09/2010 20:05:37 Type: Unk
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-2.98**	**239000.**	**169.**	**1880.**	**14.4**	**183000.**	**5.11**	**146.**	**2050.**	**218.**
Stddev	2.91	18900.	12.	145.	1.2	14000.	1.89	3.	145.	3.
%RSD	97.4	7.91	7.33	7.72	7.99	7.63	37.0	2.27	7.07	1.31

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**507000.**	**50300.**	**19100.**	**22.4**	**342.**	**451.**	**29.2**	**29.0**	**13.7**	**475.**
Stddev	40800.	3270.	1410.	1.3	10.	10.	4.3	7.0	7.5	41.
%RSD	8.05	6.50	7.41	5.68	3.03	2.19	14.9	24.3	54.5	8.58

Elem	Zn2062
Units	ug/L
Avg	**968.**
Stddev	25.
%RSD	2.58

Int. Std.	Y_3600
Units	Cts/S
Avg	**44158.**
Stddev	145.
%RSD	.32778

Sample Name: 870196 Acquired: 12/09/2010 20:11:03 Type: Unk
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-1.88**	**272000.**	**217.**	**2110.**	**16.8**	**201000.**	**8.56**	**188.**	**2570.**	**281.**
Stddev	.97	8460.	21.	72.	.6	6820.	1.45	9.	64.	15.
%RSD	51.7	3.11	9.50	3.41	3.29	3.39	16.9	4.87	2.48	5.23

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**622000.**	**57000.**	**23300.**	**26.5**	**517.**	**442.**	**134.**	**12.4**	**14.1**	**528.**
Stddev	20800.	1340.	639.	1.2	25.	32.	7.	10.0	12.6	24.
%RSD	3.35	2.36	2.74	4.61	4.76	7.30	5.15	80.7	89.7	4.52

Elem	Zn2062
Units	ug/L
Avg	**1430.**
Stddev	98.
%RSD	6.87

Int. Std.	Y_3600
Units	Cts/S
Avg	**43807.**
Stddev	996.
%RSD	2.2740

Sample Name: 870197 Acquired: 12/09/2010 20:16:31 Type: Unk
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-4.82**	**369000.**	**196.**	**3620.**	**26.7**	**777000.**	**3.57**	**160.**	**2640.**	**253.**
Stddev	3.41	15800.	12.	134.	.9	44100.	1.20	2.	87.	3.
%RSD	70.6	4.29	6.26	3.72	3.34	5.68	33.5	1.47	3.31	1.12

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**552000.**	**133000.**	**41200.**	**26.3**	**501.**	**557.**	**46.3**	**21.7**	**24.0**	**520.**
Stddev	23900.	5310.	1610.	.8	10.	27.	4.1	16.5	6.3	35.
%RSD	4.33	3.98	3.89	3.08	2.08	4.78	8.93	76.2	26.2	6.81

Elem	Zn2062
Units	ug/L
Avg	**1310.**
Stddev	62.
%RSD	4.77

Int. Std.	Y_3600
Units	Cts/S
Avg	**42574.**
Stddev	1726.
%RSD	4.0532

Sample Name: 870208 Acquired: 12/09/2010 20:22:02 Type: Unk
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-2.75**	**346000.**	**175.**	**2770.**	**16.1**	**99200.**	**-3.25**	**157.**	**3430.**	**198.**
Stddev	1.06	35500.	29.	263.	1.5	9220.	.38	18.	319.	24.
%RSD	38.6	10.3	16.4	9.52	9.54	9.29	11.8	11.8	9.30	12.3

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**694000.**	**51000.**	**36200.**	**32.1**	**490.**	**545.**	**27.7**	**53.5**	**11.6**	**731.**
Stddev	70500.	4780.	3330.	3.3	79.	70.	4.0	8.7	6.7	74.
%RSD	10.2	9.38	9.20	10.3	16.0	12.8	14.5	16.2	58.2	10.1

Elem	Zn2062
Units	ug/L
Avg	**1040.**
Stddev	129.
%RSD	12.4

Int. Std.	Y_3600
Units	Cts/S
Avg	**43993.**
Stddev	503.
%RSD	1.1434

Sample Name: 870209 Acquired: 12/09/2010 20:27:32 Type: Unk
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-3.77**	**242000.**	**293.**	**2250.**	**15.7**	**214000.**	**12.7**	**189.**	**2220.**	**310.**
Stddev	2.33	1490.	5.	29.	.1	1120.	.3	.	14.	3.
%RSD	61.8	.614	1.62	1.29	.958	.523	2.18	.116	.610	.894

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**546000.**	**50400.**	**25500.**	**25.1**	**574.**	**892.**	**9710.**	**7.46**	**23.6**	**482.**
Stddev	3000.	695.	210.	.2	1.	13.	32.	6.33	.7	9.
%RSD	.549	1.38	.824	.892	.234	1.44	.326	84.9	3.11	1.87

Elem	Zn2062
Units	ug/L
Avg	**1630.**
Stddev	25.
%RSD	1.52

Int. Std.	Y_3600
Units	Cts/S
Avg	**43634.**
Stddev	709.
%RSD	1.6238

Sample Name: 870210 Acquired: 12/09/2010 20:32:47 Type: Unk
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-4.45**	**249000.**	**236.**	**2060.**	**18.3**	**373000.**	**7.76**	**161.**	**2310.**	**278.**
Stddev	3.74	2500.	9.	13.	.4	643.	.76	1.	9.	1.
%RSD	84.0	1.00	3.95	.609	1.96	.172	9.77	.557	.372	.495

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**500000.**	**64800.**	**24100.**	**22.4**	**503.**	**453.**	**332.**	**-5.64**	**16.0**	**426.**
Stddev	4400.	441.	236.	.8	1.	8.	4.	15.0	3.3	15.
%RSD	.880	.679	.982	3.45	.180	1.75	1.28	266.	20.4	3.57

Elem	Zn2062
Units	ug/L
Avg	**1050.**
Stddev	22.
%RSD	2.12

Int. Std.	Y_3600
Units	Cts/S
Avg	**42858.**
Stddev	948.
%RSD	2.2124

Sample Name: 870211 Acquired: 12/09/2010 20:38:17 Type: Unk
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-5.11**	**267000.**	**158.**	**2410.**	**15.9**	**356000.**	**7.32**	**139.**	**816.**	**179.**
Stddev	2.69	1780.	14.	24.	.2	2500.	.33	.	3.	1.
%RSD	52.6	.667	9.15	.990	1.09	.702	4.50	.340	.397	.459

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**442000.**	**63300.**	**31600.**	**22.5**	**332.**	**425.**	**7.46**	**13.6**	**11.3**	**482.**
Stddev	2670.	868.	351.	.2	3.	6.	3.21	13.5	12.1	7.
%RSD	.603	1.37	1.11	.928	.852	1.39	43.0	99.8	106.	1.43

Elem	Zn2062
Units	ug/L
Avg	**918.**
Stddev	15.
%RSD	1.68

Int. Std.	Y_3600
Units	Cts/S
Avg	**44392.**
Stddev	664.
%RSD	1.4954

Sample Name: 870212 Acquired: 12/09/2010 20:43:49 Type: Unk
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-3.26**	**187000.**	**160.**	**1640.**	**9.48**	**68400.**	**13.6**	**132.**	**1520.**	**152.**
Stddev	2.46	2050.	30.	25.	.13	473.	.3	1.	15.	.
%RSD	75.4	1.10	18.7	1.55	1.34	.691	2.24	.542	1.01	.063

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**420000.**	**31200.**	**19300.**	**18.2**	**216.**	**513.**	**934.**	**5.50**	**6.28**	**373.**
Stddev	4160.	678.	232.	.9	1.	14.	21.	4.49	6.02	16.
%RSD	.992	2.18	1.20	5.09	.382	2.72	2.27	81.6	95.8	4.15

Elem	Zn2138
Units	ug/L
Avg	**832.**
Stddev	22.
%RSD	2.59

Int. Std.	Y_3600
Units	Cts/S
Avg	**45842.**
Stddev	1166.
%RSD	2.5432

Sample Name: ccv1 Acquired: 12/09/2010 20:49:19 Type: QC
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be2348	Ca3179	Cd2288	Co2388	Cr2835	Cu2247	Fe2395	Mg2790
Avg	**497.**	**5460.**	**5220.**	**5140.**	**505.**	**5370.**	**514.**	**5290.**	**5290.**	**5360.**	**5380.**	**5130.**
Stddev	6.	52.	18.	40.	3.	19.	.	21.	31.	3.	43.	83.
%RSD	1.18	.945	.352	.775	.568	.355	.064	.388	.584	.048	.806	1.62
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2593	Mo2045	Ni2216	Pb2169	Sb2175	Se2062	Tl1908	V_2908	Zn2062
Avg	**5250.**	**5170.**	**5200.**	**5260.**	**5190.**	**5240.**	**5170.**	**5230.**	**5340.**
Stddev	53.	9.	12.	30.	17.	64.	68.	106.	83.
%RSD	1.00	.166	.233	.566	.323	1.22	1.31	2.03	1.55
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**45898.**
Stddev	663.
%RSD	1.4434

Sample Name: ccv2 Acquired: 12/09/2010 20:54:28 Type: QC
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4934	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**50.5**	**535.**	**514.**	**488.**	**49.4**	**491.**	**50.5**	**491.**	**491.**	**528.**	**498.**	**548.**
Stddev	2.0	3.	6.	1.	.3	.	.0	1.	3.	1.	2.	2.
%RSD	3.86	.555	1.14	.296	.680	.081	.070	.230	.636	.250	.346	.362
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**507.**	**483.**	**514.**	**502.**	**497.**	**518.**	**508.**	**493.**	**499.**
Stddev	2.	.	3.	10.	12.	7.	10.	9.	10.
%RSD	.392	.088	.609	1.96	2.38	1.33	1.88	1.87	1.91
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**46618.**
Stddev	971.
%RSD	2.0832

Sample Name: ccb Acquired: 12/09/2010 21:04:52 Type: QC
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**-.509**	**6.11**	**2.52**	**.253**	**-.042**	**-12.8**	**.085**	**-.006**	**-.532**	**-.329**	**6.68**	**1.88**
Stddev	2.54	1.37	4.44	.218	.014	.2	.067	.073	2.30	.335	.83	.07
%RSD	499.	22.4	176.	86.4	33.8	1.32	78.9	1220.	431.	102.	12.4	3.58
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**.397**	**.402**	**-.061**	**1.42**	**-1.19**	**.113**	**-3.52**	**.644**	**-1.89**
Stddev	.400	.411	.242	.77	.92	5.14	5.50	1.89	.14
%RSD	101.	102.	397.	53.9	77.6	4560.	156.	293.	7.46
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**46838.**
Stddev	1585.
%RSD	3.3835

Sample Name: 870213 Acquired: 12/09/2010 21:10:11 Type: Unk
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-1.80**	**265000.**	**146.**	**1810.**	**12.3**	**81400.**	**3.93**	**134.**	**1880.**	**172.**
Stddev	.14	28600.	10.	184.	1.3	8000.	2.50	4.	168.	1.
%RSD	7.70	10.8	7.07	10.2	10.5	9.82	63.5	3.10	8.95	.514

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**550000.**	**45000.**	**19200.**	**22.2**	**343.**	**328.**	**14.0**	**32.8**	**13.9**	**546.**
Stddev	59500.	4240.	1900.	1.9	15.	33.	1.1	6.0	11.7	74.
%RSD	10.8	9.42	9.89	8.36	4.49	10.1	8.04	18.2	83.9	13.6

Elem	Zn2062
Units	ug/L
Avg	**1080.**
Stddev	101.
%RSD	9.36

Int. Std.	Y_3600
Units	Cts/S
Avg	**45557.**
Stddev	2929.
%RSD	6.4296

Sample Name: 870214 Acquired: 12/09/2010 21:15:40 Type: Unk
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-1.90**	**243000.**	**144.**	**2310.**	**15.7**	**334000.**	**2.31**	**119.**	**1620.**	**193.**
Stddev	3.82	16000.	15.	150.	.9	20900.	.47	5.	99.	7.
%RSD	202.	6.58	10.4	6.49	5.88	6.25	20.4	3.83	6.13	3.46

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**427000.**	**61500.**	**26700.**	**18.9**	**363.**	**329.**	**19.2**	**36.6**	**11.4**	**447.**
Stddev	26900.	4160.	1590.	1.0	15.	13.	4.7	9.0	5.5	28.
%RSD	6.30	6.76	5.93	5.43	4.08	3.99	24.4	24.5	48.2	6.18

Elem	Zn2138
Units	ug/L
Avg	**810.**
Stddev	32.
%RSD	3.89

Int. Std.	Y_3600
Units	Cts/S
Avg	**43393.**
Stddev	73.
%RSD	.16883

Sample Name: 870215 Acquired: 12/09/2010 21:21:12 Type: Unk
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-5.86**	**290000.**	**188.**	**2330.**	**18.8**	**360000.**	**1.04**	**156.**	**2120.**	**240.**
Stddev	.55	16700.	13.	145.	.9	28500.	.54	8.	112.	13.
%RSD	9.37	5.78	6.75	6.21	5.01	7.91	51.7	5.44	5.27	5.22

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**597000.**	**67400.**	**28700.**	**23.6**	**433.**	**645.**	**4720.**	**19.1**	**18.9**	**526.**
Stddev	36100.	3940.	1580.	1.1	23.	35.	266.	7.0	16.6	30.
%RSD	6.04	5.84	5.52	4.56	5.28	5.45	5.64	36.9	88.0	5.66

Elem	Zn2062
Units	ug/L
Avg	**1080.**
Stddev	61.
%RSD	5.60

Int. Std.	Y_3600
Units	Cts/S
Avg	**43383.**
Stddev	58.
%RSD	.13313

Sample Name: 870216 Acquired: 12/09/2010 21:26:45 Type: Unk
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-6.52**	**297000.**	**144.**	**2200.**	**15.6**	**218000.**	**-5.52**	**128.**	**1830.**	**179.**
Stddev	1.52	34900.	14.	251.	1.6	25000.	1.76	10.	198.	13.
%RSD	23.4	11.7	9.80	11.4	10.5	11.4	31.8	7.89	10.8	7.43

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**575000.**	**53500.**	**23500.**	**21.9**	**339.**	**339.**	**18.6**	**34.8**	**9.44**	**571.**
Stddev	68200.	6150.	2610.	2.3	29.	33.	5.6	3.8	5.52	70.
%RSD	11.9	11.5	11.1	10.2	8.46	9.62	29.9	11.0	58.5	12.3

Elem	Zn2062
Units	ug/L
Avg	**947.**
Stddev	89.
%RSD	9.37

Int. Std.	Y_3600
Units	Cts/S
Avg	**43558.**
Stddev	351.
%RSD	.80546

Sample Name: ccv1 Acquired: 12/09/2010 22:04:45 Type: QC
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be2348	Ca3179	Cd2288	Co2388	Cr2835	Cu2247	Fe2395	Mg2802
Avg	**484.**	**5320.**	**5060.**	**4680.**	**479.**	**5320.**	**492.**	**5260.**	**5230.**	**5370.**	**5290.**	**5320.**
Stddev	4.	17.	14.	38.	4.	23.	1.	27.	31.	9.	35.	36.
%RSD	.731	.319	.281	.812	.882	.425	.275	.506	.596	.166	.654	.683
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2593	Mo2045	Ni2216	Pb2169	Sb2175	Se2062	Tl1908	V_2908	Zn2062
Avg	**4770.**	**4900.**	**4690.**	**5080.**	**5320.**	**4810.**	**4680.**	**5020.**	**5320.**
Stddev	42.	.	18.	42.	8.	14.	231.	281.	252.
%RSD	.870	.002	.381	.822	.147	.289	4.94	5.59	4.74
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**43723.**
Stddev	2047.
%RSD	4.6822

Sample Name: ccv2 Acquired: 12/09/2010 22:09:54 Type: QC
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1890	Ba4934	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	**49.3**	**547.**	**486.**	**432.**	**47.0**	**473.**	**49.4**	**453.**	**495.**	**528.**	**460.**	**518.**
Stddev	2.4	2.	14.	4.	.4	3.	.1	.	5.	.	5.	4.
%RSD	4.93	.307	2.81	.888	.747	.642	.260	.104	.940	.089	1.10	.794
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2216	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**498.**	**465.**	**449.**	**515.**	**563.**	**497.**	**459.**	**511.**	**514.**
Stddev	3.	1.	1.	13.	17.	9.	21.	16.	14.
%RSD	.663	.261	.202	2.50	3.00	1.74	4.50	3.10	2.81
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**43895.**
Stddev	1238.
%RSD	2.8211

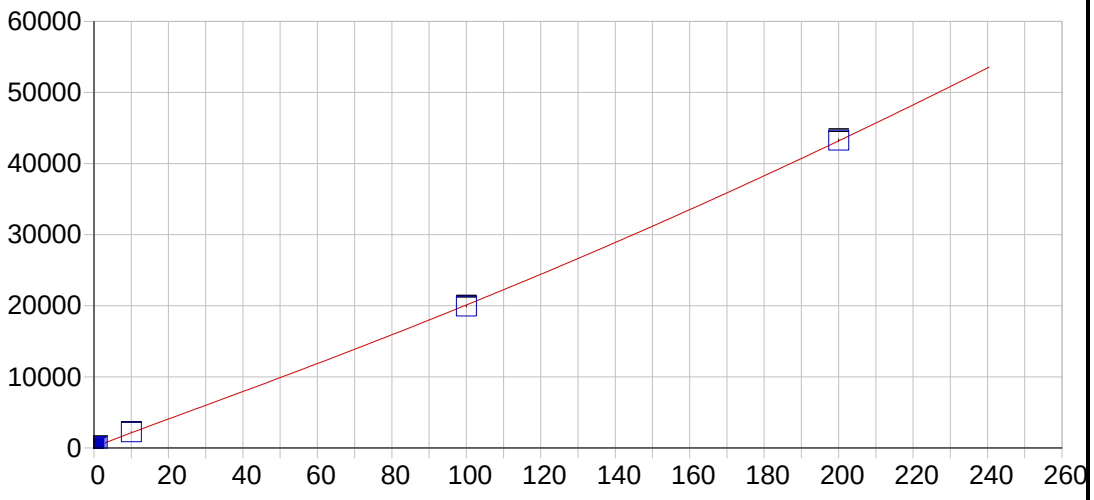
Sample Name: ccb Acquired: 12/09/2010 22:20:18 Type: QC
Method: DOD Calibration 1(v1308) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**-1.10**	**6.83**	**-1.01**	**.801**	**-.003**	**-11.9**	**-.032**	**.044**	**-1.92**	**-.748**	**7.25**	**1.32**
Stddev	2.07	2.37	4.65	.066	.095	.1	.060	.206	1.61	.427	2.40	.11
%RSD	188.	34.7	460.	8.23	2860.	.525	191.	467.	83.6	57.1	33.2	8.25
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**.850**	**.099**	**-.533**	**.180**	**-.410**	**-3.05**	**1.03**	**.549**	**-1.66**
Stddev	.130	.579	.216	.821	1.67	6.46	8.76	5.31	.08
%RSD	15.3	583.	40.4	457.	408.	212.	848.	968.	4.88
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**44665.**
Stddev	822.
%RSD	1.8402

Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)	Correlation	Std Error of Est	Predicted MDL	Predicted MQL
K 766.490 { 44}	12/03/2010 14:14:10	12/03/2010 14:14:10	Full Fit	1/Conc	14.860880	254.448879	0.752037	0.910000	0.999896	2.084884	0.030459	0.101530
Na 330.237 {102}	12/07/2010 06:54:22	12/03/2010 14:14:10	Linear	1/Conc	0.255955	1.252860	0.000000	1.000000	0.998489	0.168731	1.654851	5.516169
Na 589.592 { 57}	12/03/2010 14:09:17	12/03/2010 14:09:17	Linear	None	24.107054	632.236749	0.000000	1.000000	0.999991	59.059266	0.011384	0.037948
Y 320.332 {105}*	12/03/2010 13:57:03	12/03/2010 13:57:03	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	-1.000000	-1.000000
Y 360.073 { 94}	12/03/2010 13:57:03	12/03/2010 13:57:03	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	-1.000000	-1.000000
Al 308.215 {109}	12/03/2010 14:16:51	12/03/2010 14:16:51	Linear	None	0.003795	0.029117	0.000000	1.000000	1.000000	0.000000	0.018440	0.061467
Al 396.152 { 85}	12/03/2010 14:16:51	12/03/2010 14:16:51	Linear	1/Conc	0.402525	3.075898	0.000000	1.000000	1.000000	0.000000	1.143649	3.812165
Mg 279.553 {121}	12/03/2010 14:16:51	12/03/2010 14:16:51	Linear	1/Conc	720.172317	1041.44775	0.000000	1.000000	1.000000	0.000000	0.001050	0.003500
Mg 285.213 {118}	12/03/2010 14:16:51	12/03/2010 14:16:51	Linear	None	83.835331	449.708874	0.000000	1.000000	1.000000	0.000000	0.002957	0.009856
Ca 317.933 {106}	12/03/2010 14:16:51	12/03/2010 14:16:51	Linear	None	141.660541	259.017647	0.000000	1.000000	1.000000	0.000000	0.006269	0.020897
Fe 234.349 {144}	12/03/2010 14:16:51	12/03/2010 14:16:51	Linear	None	2.444124	23.627306	0.000000	1.000000	1.000000	0.000000	0.040022	0.133406



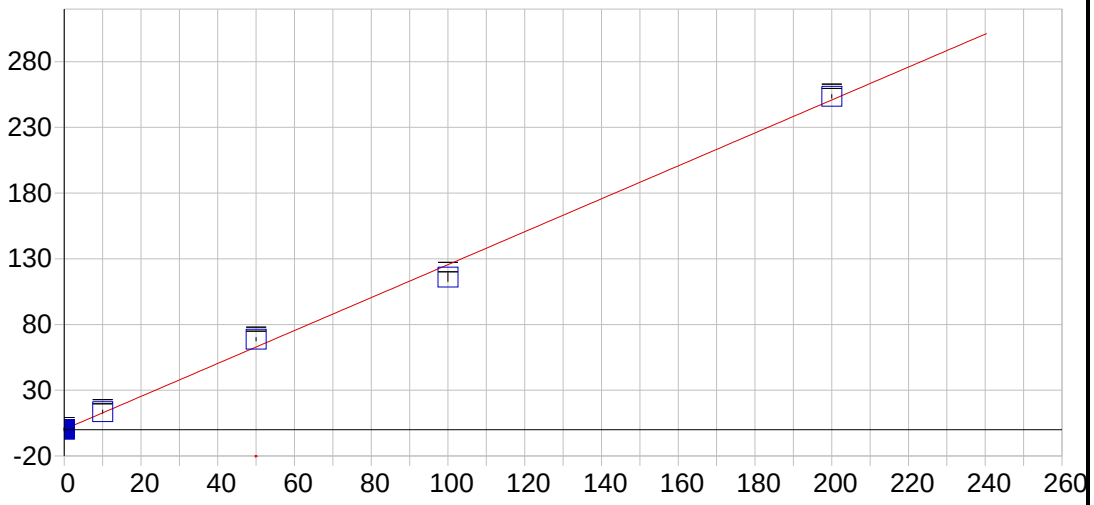
K 766.490 { 44}

Date of Fit:	12/03/2010 14:14:10	Type of Fit:	Full Fit	Weighting:	1/Conc

A0 (Offset):	14.860880	Re-Slope:	1.000000
A1 (Gain):	254.448879	Y-int:	0.000000
A2 (Curvature):	0.752037		
n (Exponent):	0.910000		
Correlation:	0.999896	Status:	Warning
Std Error of Est:	2.084884		
Predicted MDL:	0.030459		
Predicted MQL:	0.101530		

Positive Curvature

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00004	.000	.000	14.884	9.35	1
CalibStd-1.0	1.0000	.93044	-.070	-6.96	253.81	6.02	1
CalibStd-10.0	10.000	10.612	.612	6.12	2253.2	15.0	1
CalibStd-0.5	.50000	.41742	-.083	-16.5	129.91	1.71	1
CalibStd-100	100.00	99.185	-.815	-.815	19936.	106.	1
CalibStd-200	200.00	200.35	.354	.177	43283.	186.	1

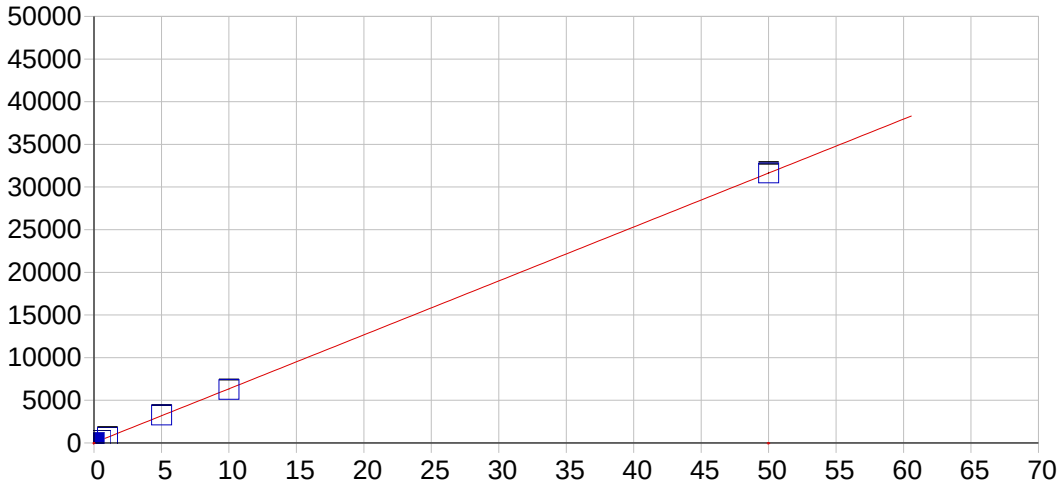


Na 330.237 {102}

Date of Fit:	12/07/2010 06:54:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.255955	Re-Slope:	1.000000
A1 (Gain):	1.252860	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998489	Status:	OK.
Std Error of Est:	0.168731		
Predicted MDL:	1.654851		
Predicted MQL:	5.516169		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00097	-.001	.000	.25474	1.43	1
CalibStd-200	200.00	202.20	2.20	1.10	253.59	1.64	1
CalibStd-10.0	10.000	10.676	.676	6.76	13.632	1.58	1
CalibStd-50	50.000	54.710	4.71	9.42	68.800	1.50	1
CalibStd-100	100.00	92.411	-7.59	-7.59	116.03	3.58	1

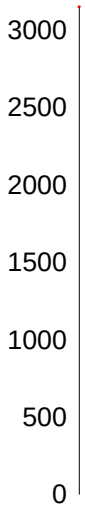


Na 589.592 { 57}

Date of Fit:	12/03/2010 14:09:17	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	24.107054	Re-Slope:	1.000000
A1 (Gain):	632.236749	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999991	Status:	OK.
Std Error of Est:	59.059266		
Predicted MDL:	0.011384		
Predicted MQL:	0.037948		

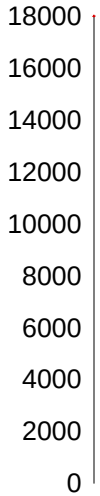
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00176	-.002	.000	22.997	5.25	1
CalibStd-0.5	.50000	.48883	-.011	-2.23	333.17	2.21	1
CalibStd-1.0	1.0000	1.0265	.026	2.65	673.09	13.6	1
CalibStd-5.0	5.0000	5.1137	.114	2.27	3257.2	32.6	1
CalibStd-10.0	10.000	9.8556	-.144	-1.44	6255.2	28.3	1
CalibStd-50	50.000	50.017	.017	.034	31647.	119.	1



Y 320.332 {105}*

Date of Fit:	12/03/2010 13:57:03	Type of Fit:	Linear	Weighting:	1/Conc	
A0 (Offset):	0.000000		Re-Slope:	1.000000		
A1 (Gain):	0.000000		Y-int:	0.000000		
A2 (Curvature):	0.000000					
n (Exponent):	1.000000					
Correlation:	0.000000		Status:	Warning	Zero Gain	
Std Error of Est:	0.000000					
Predicted MDL:	n/a					
Predicted MQL:	n/a					

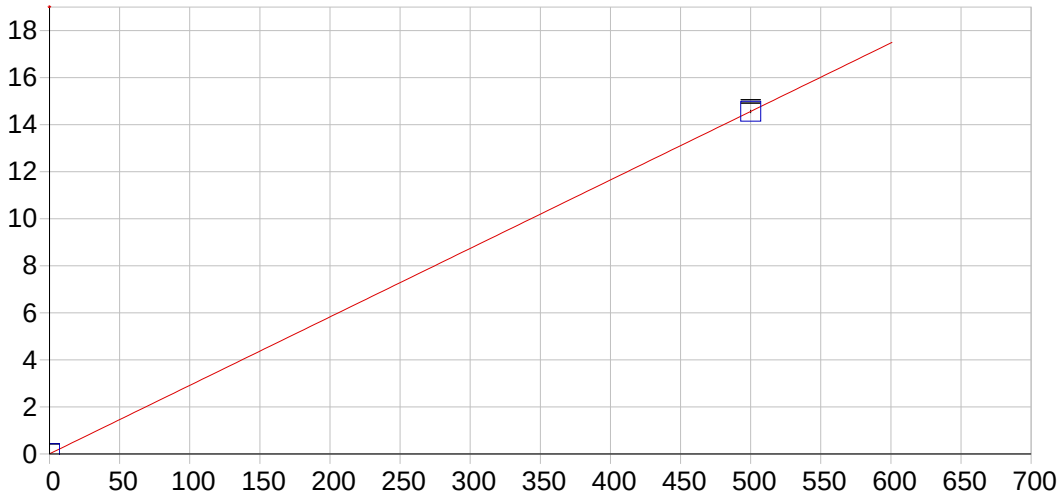
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	2955.6	30.6	1



Y 360.073 { 94}

Date of Fit:	12/03/2010 13:57:03	Type of Fit:	Linear	Weighting:	1/Conc	
A0 (Offset):	0.000000		Re-Slope:	1.000000		
A1 (Gain):	0.000000		Y-int:	0.000000		
A2 (Curvature):	0.000000					
n (Exponent):	1.000000					
Correlation:	0.000000		Status:	Warning	Zero Gain	
Std Error of Est:	0.000000					
Predicted MDL:	n/a					
Predicted MQL:	n/a					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	16749.	211.	1

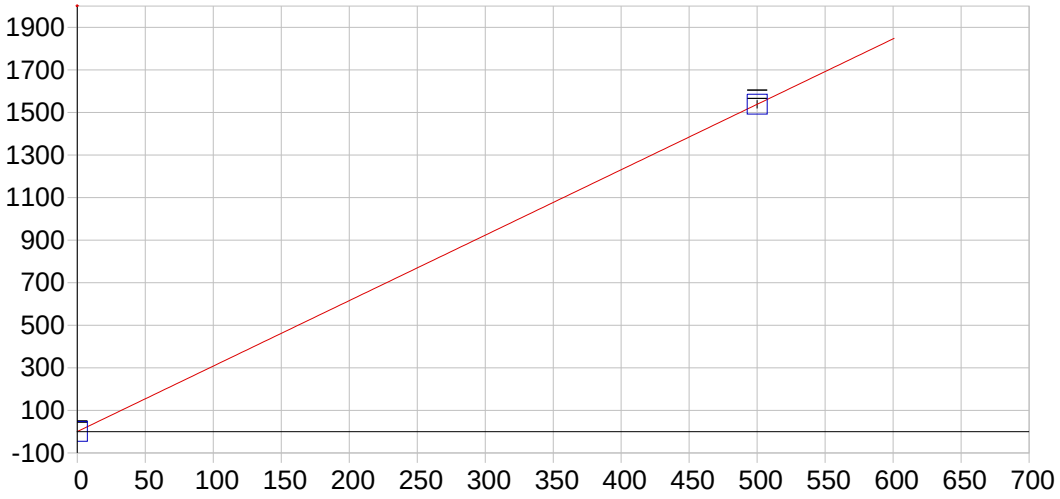


Al 308.215 {109}

Date of Fit:	12/03/2010 14:16:51	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.003795	Re-Slope:	1.000000
A1 (Gain):	0.029117	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.018440		
Predicted MQL:	0.061467		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00380	.001	1
CalibStd-500	500.00	500.00	.000	.000	14.562	.069	1

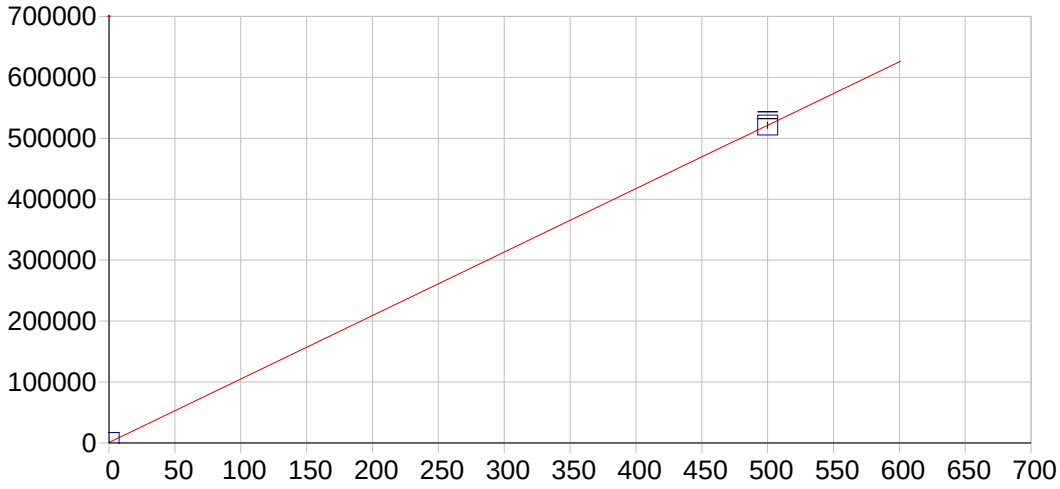


Al 396.152 { 85}

Date of Fit:	12/03/2010 14:16:51	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.402525	Re-Slope:	1.000000
A1 (Gain):	3.075898	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	1.143649		
Predicted MQL:	3.812165		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.40252	2.90	1
CalibStd-500	500.00	500.00	.000	.000	1538.4	19.8	1

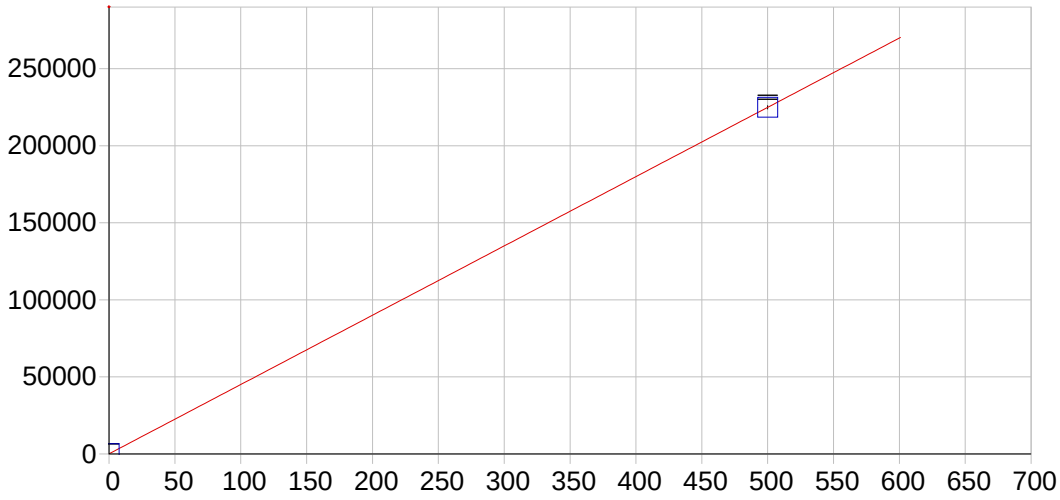


Mg 279.553 {121}

Date of Fit:	12/03/2010 14:16:51	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	720.172317	Re-Slope:	1.000000
A1 (Gain):	1041.447755	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.001050		
Predicted MQL:	0.003500		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	720.17	504.	1
CalibStd-500	500.00	500.00	.000	.000	521440.	5640.	1

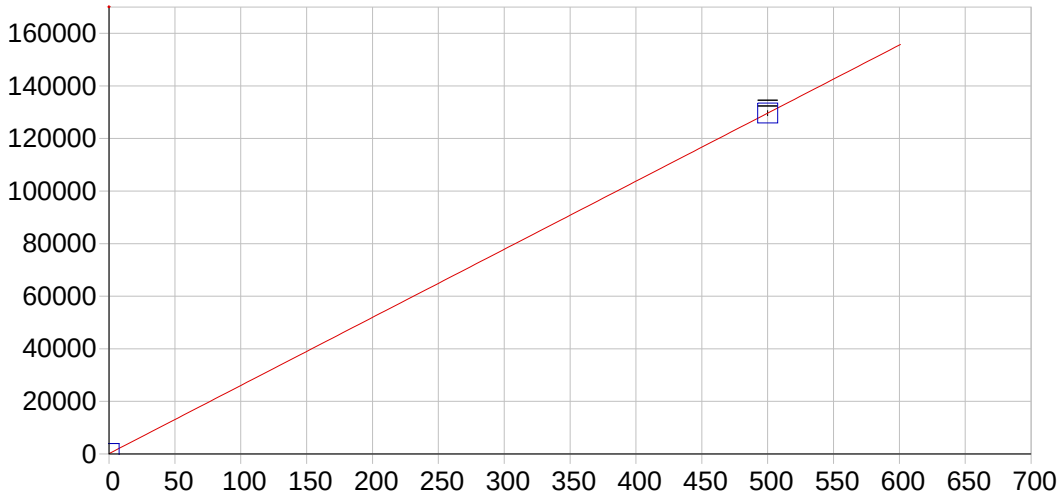


Mg 285.213 {118}

Date of Fit:	12/03/2010 14:16:51	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	83.835331	Re-Slope:	1.000000
A1 (Gain):	449.708874	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.002957		
Predicted MQL:	0.009856		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	83.835	59.1	1
CalibStd-500	500.00	500.00	.000	.000	224940.	1290.	1

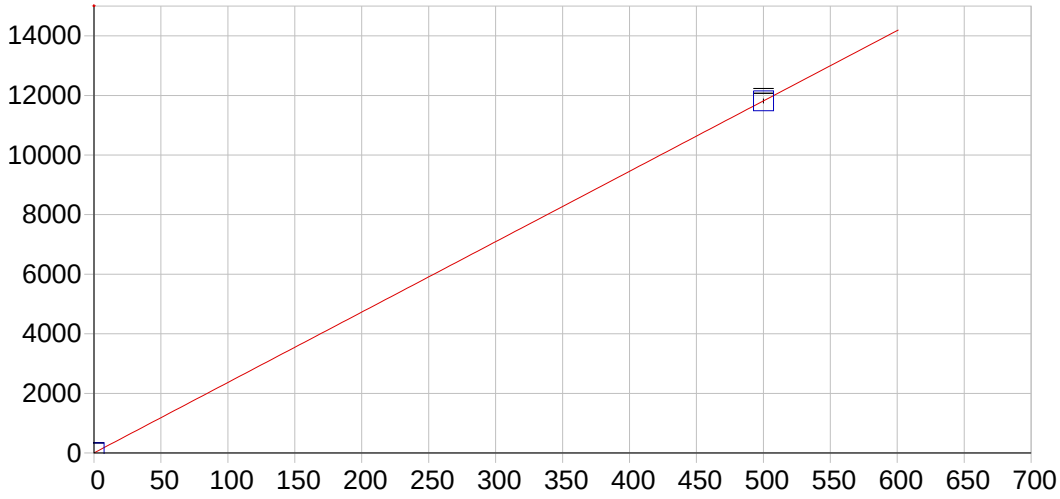


Ca 317.933 {106}

Date of Fit:	12/03/2010 14:16:51	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	141.660541	Re-Slope:	1.000000
A1 (Gain):	259.017647	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.006269		
Predicted MQL:	0.020897		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	141.66	78.2	1
CalibStd-500	500.00	500.00	.000	.000	129650.	1070.	1



Fe 234.349 {144}

Date of Fit:	12/03/2010 14:16:51	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	2.444124	Re-Slope:	1.000000
A1 (Gain):	23.627306	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.040022		
Predicted MQL:	0.133406		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	2.4441	.334	1
CalibStd-500	500.00	500.00	.000	.000	11816.	79.2	1

Sample Name: Blank Acquired: 12/03/2010 13:54:28 Type: Cal
Method: Sodium and Potassium 1(v116) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**14.9**	**.255**	**23.0**	**.403**	**83.8**	**142.**	**2.44**
Stddev	9.4	1.43	5.3	2.90	59.1	78.	.33
%RSD	62.8	559.	22.8	719.	70.5	55.2	13.7

Int. Std.	Y_3203
Units	Cts/S
Avg	**2955.6**
Stddev	30.6
%RSD	1.0344

Sample Name: CalibStd-0.5 Acquired: 12/03/2010 13:57:06 Type: Cal
Method: Sodium and Potassium 1(v116) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895
Units	Cts/S	Cts/S
Avg	**130.**	**333.**
Stddev	2.	2.
%RSD	1.32	.664

Sample Name: CalibStd-1.0 Acquired: 12/03/2010 13:59:33 Type: Cal
Method: Sodium and Potassium 1(v116) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895
Units	Cts/S	Cts/S
Avg	**254.**	**673.**
Stddev	6.	14.
%RSD	2.37	2.02

Sample Name: CalibStd-5.0 Acquired: 12/03/2010 14:02:00 Type: Cal
Method: Sodium and Potassium 1(v116) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	Na5895
Units	Cts/S
Avg	**3260.**
Stddev	33.
%RSD	1.00

Sample Name: CalibStd-10.0 Acquired: 12/03/2010 14:04:26 Type: Cal
Method: Sodium and Potassium 1(v116) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302	Na5895
Units	Cts/S	Cts/S	Cts/S
Avg	**2250.**	**13.6**	**6260.**
Stddev	15.	1.6	28.
%RSD	.668	11.6	.452

Sample Name: CalibStd-50 Acquired: 12/03/2010 14:06:53 Type: Cal
Method: Sodium and Potassium 1(v116) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	Na3302	Na5895
Units	Cts/S	Cts/S
Avg	**68.8**	**31600.**
Stddev	1.5	119.
%RSD	2.17	.376

Sample Name: CalibStd-100 Acquired: 12/03/2010 14:09:21 Type: Cal
Method: Sodium and Potassium 1(v116) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302
Units	Cts/S	Cts/S
Avg	**19900.**	**116.**
Stddev	106.	4.
%RSD	.532	3.09

Sample Name: CalibStd-200 Acquired: 12/03/2010 14:11:48 Type: Cal
Method: Sodium and Potassium 1(v116) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302
Units	Cts/S	Cts/S
Avg	**43300.**	**254.**
Stddev	186.	2.
%RSD	.430	.645

Sample Name: CalibStd-500 Acquired: 12/03/2010 14:14:13 Type: Cal
Method: Sodium and Potassium 1(v116) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	Al3961	Mg2852	Ca3179	Fe2343
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1540.**	**225000.**	**130000.**	**11800.**
Stddev	20.	1290.	1070.	79.
%RSD	1.28	.573	.827	.670

Int. Std.	Y_3203
Units	Cts/S
Avg	**2516.3**
Stddev	19.6
%RSD	.77865

Sample Name: icv Acquired: 12/03/2010 14:16:55 Type: QC
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**98.0**	**92.2**	**-.007**	**-.120**	**-.358**	**.071**
Stddev	.5	2.2	.736	.003	.008	.020
%RSD	.516	2.36	10700.	2.23	2.21	27.9
#1	97.8	91.1	.149	-.117	-.362	.070
#2	97.6	90.9	-.809	-.122	-.349	.051
#3	98.6	94.8	.639	-.122	-.363	.091
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	**2818.0**
Stddev	28.4
%RSD	1.0066
#1	2790.5
#2	2816.4
#3	2847.1

Sample Name: icb Acquired: 12/03/2010 14:19:21 Type: QC
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**.136**	**.032**	**-.586**	**-.131**	**-.383**	**-.027**
Stddev	.010	.004	.958	.002	.003	.034
%RSD	7.33	14.1	164.	1.30	.655	124.
#1	.127	.036	-1.59	-.130	-.386	-.052
#2	.134	.032	-.488	-.133	-.382	-.042
#3	.146	.027	.320	-.130	-.381	.011
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	**2935.8**
Stddev	1.0
%RSD	.03311
#1	2936.4
#2	2934.7
#3	2936.4

Sample Name: mrl Acquired: 12/03/2010 14:21:48 Type: QC
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**5.11**	**1.08**	**.263**	**.508**	**.155**	**.277**
Stddev	.04	.01	.597	.002	.003	.023
%RSD	.838	.462	227.	.483	1.73	8.15
#1	5.08	1.09	-.188	.511	.152	.300
#2	5.09	1.08	.035	.506	.157	.277
#3	5.16	1.08	.940	.507	.155	.254
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	**2932.8**
Stddev	16.1
%RSD	.54755
#1	2914.3
#2	2941.0
#3	2943.2

Sample Name: icsa Acquired: 12/03/2010 14:24:15 Type: QC
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**.002**	**-.003**	**502.**	**492.**	**502.**	**487.**
Stddev	.017	.006	6.	1.	3.	1.
%RSD	912.	178.	1.25	.209	.604	.231
#1	-.010	-.008	507.	492.	500.	486.
#2	.014	.001	498.	493.	504.	488.
Check ?	Chk Pass	Chk Pass	None	None	None	None
High Limit						
Low Limit						

Int. Std.	Y_3203
Units	Cts/S
Avg	**2545.1**
Stddev	2.7
%RSD	.10767
#1	2543.2
#2	2547.1

Sample Name: icsab Acquired: 12/03/2010 14:26:57 Type: QC
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**112.**	**104.**	**471.**	**479.**	**487.**	**476.**
Stddev	.	1.	2.	5.	5.	5.
%RSD	.189	1.05	.402	1.09	.925	.995
#1	112.	103.	469.	473.	482.	470.
#2	112.	105.	470.	483.	489.	477.
#3	113.	103.	473.	481.	490.	480.
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	**2523.0**
Stddev	18.1
%RSD	.71747
#1	2506.7
#2	2519.9
#3	2542.5

Sample Name: ccv Acquired: 12/03/2010 14:53:56 Type: QC
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**98.9**	**91.7**	**.568**	**-.051**	**-.116**	**.185**
Stddev	.3	2.5	.197	.003	.003	.087
%RSD	.274	2.75	34.8	6.02	2.83	46.9
#1	98.6	89.4	.688	-.051	-.115	.278
#2	99.0	94.4	.340	-.054	-.114	.172
#3	99.2	91.1	.675	-.047	-.120	.106
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	**2864.0**
Stddev	14.0
%RSD	.48913
#1	2858.8
#2	2853.3
#3	2879.9

Sample Name: ccb Acquired: 12/03/2010 14:56:23 Type: QC
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**.143**	**.006**	**-.152**	**-.162**	**-.369**	**-.052**
Stddev	.017	.003	.316	.003	.001	.027
%RSD	12.2	55.3	208.	2.15	.278	51.5
#1	.139	.007	.201	-.161	-.370	-.083
#2	.163	.009	-.407	-.159	-.368	-.041
#3	.129	.002	-.249	-.166	-.369	-.033
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	**2975.9**
Stddev	1.3
%RSD	.04313
#1	2977.1
#2	2974.5
#3	2976.2

Sample Name: ccv Acquired: 12/03/2010 15:23:03 Type: QC
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**98.4**	**92.5**	**.072**	**-.043**	**-.123**	**.224**
Stddev	.2	.8	.364	.002	.010	.055
%RSD	.209	.817	507.	4.18	7.82	24.3
#1	98.5	91.8	.449	-.041	-.126	.283
#2	98.5	92.3	-.277	-.043	-.130	.215
#3	98.1	93.3	.044	-.044	-.112	.175
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	**2855.5**
Stddev	1.3
%RSD	.04679
#1	2856.5
#2	2854.0
#3	2855.9

Sample Name: ccb Acquired: 12/03/2010 15:25:30 Type: QC
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**.198**	**.014**	**-.150**	**-.159**	**-.368**	**-.025**
Stddev	.016	.004	1.32	.002	.008	.021
%RSD	8.11	31.8	880.	1.08	2.13	83.1
#1	.216	.017	.189	-.157	-.376	-.027
#2	.185	.009	.964	-.160	-.366	-.003
#3	.192	.015	-1.60	-.161	-.361	-.045
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	**2960.0**
Stddev	8.5
%RSD	.28725
#1	2955.2
#2	2954.9
#3	2969.8

Sample Name: lcss35624 Acquired: 12/03/2010 15:32:47 Type: Unk
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**90.0**	**83.4**	**2.15**	**102.**	**166.**	**1.89**
Stddev	.2	1.6	1.32	1.	3.	.05
%RSD	.218	1.88	61.5	.867	1.73	2.71
#1	89.8	81.7	1.02	101.	163.	1.85
#2	90.2	83.8	3.61	102.	166.	1.87
#3	89.9	84.8	1.82	103.	169.	1.94

Int. Std.	Y_3203
Units	Cts/S
Avg	**2692.3**
Stddev	24.1
%RSD	.89339
#1	2666.0
#2	2697.6
#3	2713.3

Sample Name: mbw35624 Acquired: 12/03/2010 15:35:19 Type: Unk
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**.207**	**-.020**	**.718**	**-.151**	**-.351**	**.089**
Stddev	.027	.007	.573	.001	.004	.027
%RSD	13.1	36.4	79.8	.598	1.21	29.8
#1	.192	-.027	.084	-.152	-.353	.077
#2	.192	-.012	1.20	-.151	-.347	.070
#3	.239	-.021	.871	-.150	-.355	.119

Int. Std.	Y_3203
Units	Cts/S
Avg	**2903.9**
Stddev	11.0
%RSD	.37725
#1	2895.0
#2	2900.5
#3	2916.2

Sample Name: 870188 Acquired: 12/03/2010 15:37:48 Type: Unk
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**23.9**	**1.38**	**328.**	**89.7**	**358.**	**672.**
Stddev	.1	.01	1.	.3	3.	6.
%RSD	.228	.665	.216	.296	.897	.822
#1	23.9	1.37	329.	89.6	354.	666.
#2	23.8	1.39	329.	89.5	360.	676.
#3	23.9	1.38	327.	90.0	360.	675.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2662.1**
Stddev	7.1
%RSD	.26579
#1	2654.6
#2	2668.7
#3	2662.9

Sample Name: 870189 Acquired: 12/03/2010 15:40:12 Type: Unk
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**37.2**	**1.88**	**356.**	**82.7**	**128.**	**778.**
Stddev	.2	.01	6.	.3	1.	6.
%RSD	.546	.771	1.56	.395	1.03	.779
#1	37.0	1.86	350.	82.5	127.	772.
#2	37.4	1.89	357.	83.1	128.	779.
#3	37.3	1.88	361.	82.6	129.	784.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2682.5**
Stddev	16.3
%RSD	.60633
#1	2663.7
#2	2691.7
#3	2692.1

Sample Name: I870189 Acquired: 12/03/2010 15:42:36 Type: Unk
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**7.05**	**.347**	**67.8**	**17.8**	**28.0**	**188.**
Stddev	.04	.008	.7	.1	.2	1.
%RSD	.519	2.33	.995	.478	.606	.488
#1	7.04	.344	67.2	17.9	28.2	188.
#2	7.09	.357	67.6	17.8	28.0	188.
#3	7.01	.342	68.5	17.8	27.9	187.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2967.9**
Stddev	27.2
%RSD	.91566
#1	2948.5
#2	2999.0
#3	2956.4

Sample Name: dup870189 Acquired: 12/03/2010 15:45:00 Type: Unk
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**35.6**	**1.80**	**344.**	**79.8**	**124.**	**749.**
Stddev	.0	.01	2.	.3	2.	8.
%RSD	.114	.717	.455	.358	1.25	1.07
#1	35.7	1.81	343.	79.7	122.	742.
#2	35.6	1.81	343.	79.5	124.	748.
#3	35.6	1.78	346.	80.1	125.	758.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2678.9**
Stddev	21.8
%RSD	.81353
#1	2655.7
#2	2682.0
#3	2698.9

Sample Name: mss870189 Acquired: 12/03/2010 15:47:24 Type: Unk
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**118.**	**83.8**	**527.**	**174.**	**275.**	**856.**
Stddev	.	1.8	10.	1.	5.	13.
%RSD	.218	2.14	1.96	.506	1.64	1.48
#1	118.	82.7	517.	173.	270.	842.
#2	118.	82.8	526.	174.	276.	858.
#3	118.	85.8	538.	174.	279.	867.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2615.6**
Stddev	26.4
%RSD	1.0082
#1	2588.9
#2	2616.3
#3	2641.6

Sample Name: msds870189 Acquired: 12/03/2010 15:49:56 Type: Unk
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**117.**	**83.8**	**519.**	**172.**	**273.**	**854.**
Stddev	.	1.6	5.	1.	4.	11.
%RSD	.426	1.91	1.04	.542	1.31	1.25
#1	117.	85.6	518.	173.	271.	849.
#2	116.	82.6	514.	171.	271.	847.
#3	117.	83.2	525.	173.	277.	867.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2615.1**
Stddev	18.1
%RSD	.69397
#1	2613.0
#2	2598.1
#3	2634.2

Sample Name: ccv Acquired: 12/03/2010 15:52:28 Type: QC
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**97.1**	**93.5**	**-.399**	**-.039**	**-.105**	**.294**
Stddev	.2	1.9	.408	.003	.006	.048
%RSD	.206	2.03	102.	8.02	6.02	16.2
#1	96.9	95.5	-.167	-.035	-.112	.349
#2	97.2	91.7	-.159	-.042	-.099	.268
#3	97.2	93.3	-.869	-.039	-.105	.265
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	**2907.9**
Stddev	5.7
%RSD	.19675
#1	2901.6
#2	2909.4
#3	2912.7

Sample Name: ccb Acquired: 12/03/2010 15:54:56 Type: QC
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**.162**	**.021**	**.419**	**-.157**	**-.361**	**.003**
Stddev	.024	.007	.378	.003	.003	.028
%RSD	14.7	31.0	90.1	1.95	.848	881.
#1	.181	.015	.007	-.160	-.365	.006
#2	.135	.021	.502	-.154	-.361	.030
#3	.170	.028	.749	-.156	-.359	-.026
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	**3051.4**
Stddev	15.6
%RSD	.51246
#1	3057.9
#2	3033.6
#3	3062.7

Sample Name: pdss870189 Acquired: 12/03/2010 15:57:24 Type: Unk
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**202.**	**89.4**	**317.**	**77.9**	**118.**	**721.**
Stddev	.	1.0	2.	.2	2.	9.
%RSD	.181	1.15	.702	.288	1.68	1.31
#1	202.	89.2	316.	77.7	116.	711.
#2	202.	88.5	316.	77.8	119.	722.
#3	202.	90.6	320.	78.1	120.	730.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2707.7**
Stddev	13.4
%RSD	.49513
#1	2697.6
#2	2702.5
#3	2722.9

Sample Name: 870190 Acquired: 12/03/2010 15:59:47 Type: Unk
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**28.4**	**1.14**	**354.**	**74.2**	**48.7**	**753.**
Stddev	.1	.01	3.	.4	.4	5.
%RSD	.528	.870	.906	.511	.846	.612
#1	28.2	1.14	350.	73.8	48.3	748.
#2	28.5	1.14	356.	74.5	48.9	754.
#3	28.4	1.15	355.	74.2	49.1	757.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2731.9**
Stddev	3.6
%RSD	.13120
#1	2728.0
#2	2735.1
#3	2732.5

Sample Name: 870191 Acquired: 12/03/2010 16:02:11 Type: Unk
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**24.9**	**1.82**	**323.**	**117.**	**266.**	**632.**
Stddev	.1	.01	2.	1.	2.	3.
%RSD	.520	.448	.519	.745	.591	.474
#1	24.7	1.83	321.	116.	264.	629.
#2	25.0	1.82	325.	118.	265.	633.
#3	24.9	1.82	322.	117.	267.	635.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2693.9**
Stddev	16.7
%RSD	.62101
#1	2675.5
#2	2708.3
#3	2697.8

Sample Name: 870192 Acquired: 12/03/2010 16:04:44 Type: Unk
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**28.7**	**2.01**	**392.**	**114.**	**273.**	**719.**
Stddev	.1	.01	3.	.	2.	5.
%RSD	.510	.481	.830	.146	.744	.666
#1	28.9	2.01	395.	114.	271.	713.
#2	28.7	2.02	388.	114.	274.	720.
#3	28.6	2.00	392.	114.	274.	723.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2651.7**
Stddev	11.4
%RSD	.42944
#1	2638.7
#2	2660.0
#3	2656.5

Sample Name: 870193 Acquired: 12/03/2010 16:07:17 Type: Unk
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**37.2**	**2.16**	**417.**	**86.0**	**139.**	**751.**
Stddev	.0	.01	1.	.4	1.	6.
%RSD	.112	.258	.287	.418	1.05	.782
#1	37.1	2.16	416.	85.7	137.	745.
#2	37.1	2.17	416.	85.8	139.	752.
#3	37.2	2.16	418.	86.4	140.	756.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2646.9**
Stddev	11.0
%RSD	.41415
#1	2642.1
#2	2639.1
#3	2659.4

Sample Name: 870194 Acquired: 12/03/2010 16:09:42 Type: Unk
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**42.3**	**2.16**	**342.**	**101.**	**195.**	**716.**
Stddev	.2	.03	1.	.	1.	4.
%RSD	.444	1.29	.366	.314	.694	.614
#1	42.2	2.17	341.	101.	194.	712.
#2	42.1	2.14	342.	101.	195.	716.
#3	42.5	2.19	344.	101.	196.	721.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2651.7**
Stddev	13.5
%RSD	.51051
#1	2641.3
#2	2646.7
#3	2667.0

Sample Name: 870195 Acquired: 12/03/2010 16:12:07 Type: Unk
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**43.0**	**2.66**	**362.**	**120.**	**289.**	**726.**
Stddev	.2	.02	.	1.	2.	6.
%RSD	.498	.679	.131	.630	.816	.833
#1	42.9	2.64	362.	120.	287.	722.
#2	42.9	2.66	361.	120.	288.	724.
#3	43.2	2.68	362.	121.	291.	733.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2666.9**
Stddev	17.6
%RSD	.66166
#1	2656.5
#2	2656.9
#3	2687.3

Sample Name: 870196 Acquired: 12/03/2010 16:14:40 Type: Unk
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**41.3**	**2.45**	**357.**	**115.**	**278.**	**767.**
Stddev	.1	.01	1.	1.	4.	9.
%RSD	.127	.275	.415	.660	1.54	1.22
#1	41.3	2.44	357.	114.	276.	761.
#2	41.4	2.46	355.	116.	276.	763.
#3	41.3	2.45	358.	116.	283.	778.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2660.9**
Stddev	14.0
%RSD	.52448
#1	2647.1
#2	2660.5
#3	2675.0

Sample Name: 870197 Acquired: 12/03/2010 16:17:12 Type: Unk
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**54.9**	**5.79**	**456.**	**231.**	**848.**	**643.**
Stddev	.1	.01	7.	1.	1.	7.
%RSD	.181	.243	1.60	.416	.096	1.07
#1	54.8	5.80	463.	230.	848.	636.
#2	54.8	5.78	448.	232.	848.	645.
#3	55.0	5.80	456.	232.	849.	649.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2605.3**
Stddev	18.0
%RSD	.68928
#1	2586.8
#2	2606.4
#3	2622.7

Sample Name: 870208 Acquired: 12/03/2010 16:19:51 Type: Unk
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**32.4**	**1.85**	**349.**	**78.5**	**106.**	**662.**
Stddev	.1	.01	2.	.1	2.	11.
%RSD	.235	.293	.503	.135	1.96	1.64
#1	32.5	1.84	347.	78.4	104.	650.
#2	32.4	1.84	351.	78.6	107.	666.
#3	32.4	1.85	349.	78.4	108.	670.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2704.9**
Stddev	24.4
%RSD	.90025
#1	2677.8
#2	2711.9
#3	2724.9

Sample Name: ccv Acquired: 12/03/2010 16:22:15 Type: QC
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**97.4**	**91.0**	**-.195**	**-.035**	**-.101**	**.292**
Stddev	.5	2.6	.501	.002	.007	.061
%RSD	.506	2.85	257.	5.35	7.20	21.0
#1	97.5	91.1	-.638	-.033	-.102	.358
#2	97.8	88.4	-.293	-.037	-.107	.281
#3	96.8	93.6	.348	-.036	-.093	.237
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	**2881.2**
Stddev	6.9
%RSD	.23785
#1	2881.5
#2	2887.9
#3	2874.2

Sample Name: ccb Acquired: 12/03/2010 16:24:42 Type: QC
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**.150**	**.025**	**-.883**	**-.158**	**-.361**	**-.018**
Stddev	.012	.008	.419	.002	.007	.026
%RSD	8.05	32.5	47.4	1.49	1.90	147.
#1	.139	.026	-.468	-.157	-.361	-.048
#2	.163	.016	-.877	-.157	-.368	.002
#3	.148	.032	-1.31	-.161	-.354	-.008
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	**2985.5**
Stddev	6.7
%RSD	.22566
#1	2982.4
#2	2980.9
#3	2993.3

Sample Name: 870209 Acquired: 12/03/2010 16:27:10 Type: Unk
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**37.5**	**3.13**	**378.**	**126.**	**346.**	**792.**
Stddev	.1	.01	3.	1.	3.	6.
%RSD	.223	.253	.923	.422	.910	.744
#1	37.5	3.13	374.	125.	343.	785.
#2	37.4	3.14	380.	125.	348.	795.
#3	37.6	3.13	379.	126.	348.	796.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2650.0**
Stddev	16.6
%RSD	.62655
#1	2636.5
#2	2645.1
#3	2668.6

Sample Name: 870210 Acquired: 12/03/2010 16:29:42 Type: Unk
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**50.8**	**4.10**	**377.**	**162.**	**564.**	**704.**
Stddev	.3	.01	1.	1.	3.	4.
%RSD	.633	.304	.227	.574	.573	.566
#1	50.5	4.08	376.	161.	560.	699.
#2	51.1	4.10	377.	163.	563.	704.
#3	50.9	4.10	378.	162.	567.	707.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2661.2**
Stddev	17.2
%RSD	.64718
#1	2641.4
#2	2669.7
#3	2672.5

Sample Name: 870211 Acquired: 12/03/2010 16:32:15 Type: Unk
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**30.8**	**3.03**	**383.**	**143.**	**527.**	**625.**
Stddev	.2	.02	1.	1.	7.	9.
%RSD	.603	.718	.229	.974	1.29	1.46
#1	30.6	3.00	384.	142.	519.	615.
#2	31.0	3.04	382.	144.	528.	628.
#3	30.9	3.04	384.	145.	533.	633.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2651.5**
Stddev	28.7
%RSD	1.0824
#1	2623.2
#2	2650.7
#3	2680.6

Sample Name: 870212 Acquired: 12/03/2010 16:34:48 Type: Unk
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**35.0**	**1.82**	**322.**	**77.3**	**124.**	**735.**
Stddev	.1	.02	1.	.5	2.	7.
%RSD	.273	.978	.273	.628	1.21	.925
#1	35.0	1.80	322.	76.8	122.	727.
#2	35.0	1.83	323.	77.5	124.	737.
#3	35.1	1.83	322.	77.7	125.	740.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2702.2**
Stddev	18.5
%RSD	.68549
#1	2681.6
#2	2707.7
#3	2717.4

Sample Name: 870213 Acquired: 12/03/2010 16:37:12 Type: Unk
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**41.6**	**2.05**	**383.**	**91.2**	**126.**	**755.**
Stddev	.2	.02	5.	.5	2.	8.
%RSD	.594	.877	1.19	.557	1.20	1.03
#1	41.4	2.04	378.	90.6	124.	746.
#2	41.9	2.07	386.	91.5	126.	758.
#3	41.6	2.04	385.	91.4	127.	761.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2702.1**
Stddev	13.1
%RSD	.48298
#1	2691.3
#2	2716.6
#3	2698.4

Sample Name: 870214 Acquired: 12/03/2010 16:39:36 Type: Unk
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**39.8**	**3.97**	**387.**	**149.**	**517.**	**659.**
Stddev	.2	.02	2.	2.	4.	4.
%RSD	.595	.401	.475	1.22	.700	.675
#1	39.6	3.95	386.	146.	512.	653.
#2	39.9	3.97	386.	149.	519.	661.
#3	40.1	3.98	390.	150.	518.	661.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2654.8**
Stddev	20.8
%RSD	.78306
#1	2630.8
#2	2667.1
#3	2666.5

Sample Name: 870215 Acquired: 12/03/2010 16:42:09 Type: Unk
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**42.1**	**3.79**	**385.**	**144.**	**461.**	**735.**
Stddev	.2	.03	5.	.	3.	4.
%RSD	.444	.809	1.37	.322	.716	.578
#1	41.9	3.76	380.	144.	457.	730.
#2	42.3	3.82	390.	144.	463.	737.
#3	42.0	3.80	383.	144.	463.	738.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2633.3**
Stddev	14.1
%RSD	.53656
#1	2617.7
#2	2636.8
#3	2645.3

Sample Name: 870216 Acquired: 12/03/2010 16:44:43 Type: Unk
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**41.2**	**2.76**	**389.**	**120.**	**291.**	**694.**
Stddev	.3	.02	5.	1.	3.	6.
%RSD	.802	.734	1.22	.843	.923	.884
#1	40.8	2.73	384.	118.	289.	688.
#2	41.5	2.77	388.	120.	290.	693.
#3	41.3	2.77	394.	120.	294.	700.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2654.5**
Stddev	18.7
%RSD	.70627
#1	2633.2
#2	2668.5
#3	2661.8

Sample Name: ccv Acquired: 12/03/2010 16:52:11 Type: QC
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**97.5**	**92.1**	**-.618**	**-.034**	**-.105**	**.274**
Stddev	.2	.7	1.09	.002	.002	.022
%RSD	.222	.746	176.	4.58	1.86	8.19
#1	97.6	91.9	.551	-.033	-.106	.275
#2	97.6	91.4	-.799	-.036	-.102	.295
#3	97.2	92.8	-1.61	-.033	-.106	.250
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	**2856.0**
Stddev	6.5
%RSD	.22708
#1	2854.4
#2	2850.4
#3	2863.1

Sample Name: ccb Acquired: 12/03/2010 16:54:38 Type: QC
Method: Sodium and Potassium 1(v116) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**.151**	**.025**	**-.588**	**-.161**	**-.370**	**-.015**
Stddev	.020	.002	1.25	.004	.006	.002
%RSD	13.6	8.78	213.	2.57	1.51	15.6
#1	.131	.026	.364	-.164	-.375	-.015
#2	.172	.025	-2.00	-.161	-.364	-.013
#3	.149	.022	-.123	-.156	-.372	-.018
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	**2975.4**
Stddev	15.9
%RSD	.53380
#1	2979.5
#2	2988.8
#3	2957.8

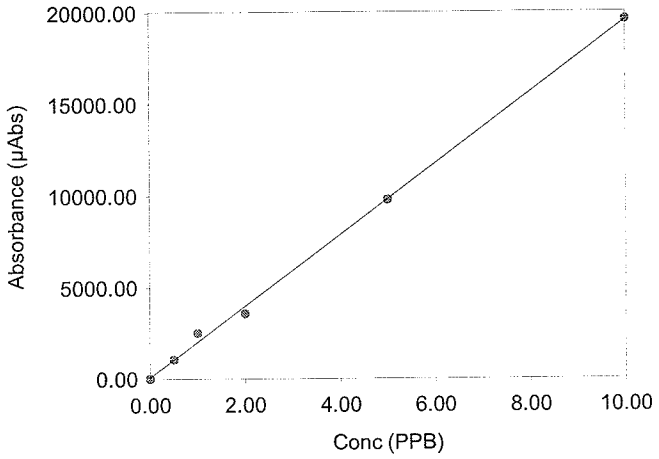
CETAC Hg Analysis Report - 10112400.DB - 11/24/2010, 10:46:48

Analyst
Date Started 11/24/2010, 09:21:36
Worksheet 7471 Soil (10ppb as high std)
Comment

* All concentrations are dilution corrected.

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
Calibration Zero	24-Nov-2010, 09:21	0.00	15.20	17.00	14	17	20	18	
Standard #1	24-Nov-2010, 09:23	0.50	4.42	1050.00	986	1051	1082	1086	
Standard #2	24-Nov-2010, 09:25	1.00	3.66	2500.00	2373	2513	2557	2576	
Standard #3	24-Nov-2010, 09:27	2.00	17.50	3560.00	2687	3537	3948	4061	
Standard #4	24-Nov-2010, 09:29	5.00	3.63	9770.00	9251	9837	9957	10029	
Standard #5	24-Nov-2010, 09:30	10.00	4.71	19600.00	18297	19613	20098	20378	

Calibration Data



Int.	84.202
Slope	1945.445
Correlation	0.99926

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
ICV	24-Nov-2010, 09:35	2.93	4.55	5790.00	5410	5827	5924	5986	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
ICB	24-Nov-2010, 09:37	-0.03	3.61	16.50	20	14	16	16	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
MRL	24-Nov-2010, 09:39	0.17	5.41	405.00	381	407	413	421	
874583 LCSS35531	24-Nov-2010, 09:40	1.89	5.53	3760.00	3457	3799	3871	3895	
874582 MBS35531	24-Nov-2010, 09:42	-0.04	1.91	9.28	10	9	8	11	
870200	24-Nov-2010, 09:44	2.07	5.82	4110.00	3772	4127	4262	4274	
870201	24-Nov-2010, 09:46	0.94	12.90	1920.00	1588	1915	2052	2121	
L870201	24-Nov-2010, 09:48	0.16	15.90	399.00	328	401	427	441	
DUP870201	24-Nov-2010, 09:50	0.90	6.69	1830.00	1669	1835	1856	1950	
MSS870201	24-Nov-2010, 09:51	2.54	13.30	5030.00	4098	5059	5422	5549	
MSDS870201	24-Nov-2010, 09:53	2.93	7.93	5780.00	5120	5846	6034	6108	
PDSS870201	24-Nov-2010, 09:55	1.78	7.89	3560.00	3150	3642	3732	3703	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
CCV	24-Nov-2010, 09:57	2.69	10.20	5320.00	4576	5313	5577	5804	Q

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
CCB	24-Nov-2010, 09:59	-0.05	3.89	-22.20	-17	-23	-22	-27	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
870202	24-Nov-2010, 10:01	0.78	5.13	1590.00	1498	1583	1615	1685	
870203	24-Nov-2010, 10:03	1.00	8.79	2020.00	1786	2014	2133	2161	
870204	24-Nov-2010, 10:05	1.18	14.40	2380.00	1981	2251	2572	2719	
870207	24-Nov-2010, 10:06	0.98	5.49	1990.00	1837	1996	2048	2067	
871184	24-Nov-2010, 10:08	0.97	7.02	1970.00	1782	1990	2042	2078	
871186	24-Nov-2010, 10:10	0.17	19.40	413.00	363	385	397	506	
871187	24-Nov-2010, 10:12	0.92	9.61	1870.00	1642	1845	1978	2026	
871188	24-Nov-2010, 10:14	0.78	4.37	1600.00	1504	1614	1645	1642	
871189	24-Nov-2010, 10:16	1.22	7.31	2450.00	2205	2466	2558	2585	

CETAC Hg Analysis Report - 10112400.DB - 11/24/2010, 10:46:48

Analyst
Date Started 11/24/2010, 10:18:04
Worksheet 7471 Soil (10ppb as high std)
Comment

* All concentrations are dilution corrected.

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
871190	24-Nov-2010, 10:18	0.84	4.03	1720.00	1627	1747	1756	1769	
CCV	24-Nov-2010, 10:19	2.43	27.90	4820.00	3082	4529	5647	6015	Q
CCB	24-Nov-2010, 10:21	-0.04	5.74	-0.13	-6	-2	2	5	
871191	24-Nov-2010, 10:23	1.35	8.99	2710.00	2391	2693	2854	2921	
871192	24-Nov-2010, 10:25	0.77	9.13	1580.00	1383	1609	1669	1673	
871193	24-Nov-2010, 10:27	0.70	10.90	1440.00	1229	1457	1534	1550	
871194	24-Nov-2010, 10:29	0.23	22.70	536.00	391	538	597	618	
871195	24-Nov-2010, 10:31	0.18	16.50	439.00	355	445	477	481	
871196	24-Nov-2010, 10:33	0.14	8.05	357.00	329	350	368	379	
871197	24-Nov-2010, 10:35	0.56	8.36	1160.00	1040	1159	1218	1242	
871198	24-Nov-2010, 10:36	0.81	26.10	1660.00	1257	1430	1764	2189	
874620 LCSS35532	24-Nov-2010, 10:38	1.72	17.90	3430.00	2558	3518	3805	3834	
874619 MBS35532	24-Nov-2010, 10:40	-0.04	5.18	2.39	-3	2	7	3	
CCV	24-Nov-2010, 10:42	2.65	14.40	5230.00	4163	5298	5681	5782	Q
CCB	24-Nov-2010, 10:44	-0.04	4.55	2.04	-2	-0	6	5	

CETAC Hg Analysis Report - 10120802.DB - 12/08/2010, 16:41:54

Analyst
Date Started 12/08/2010, 12:58:19
Worksheet 7471 Soil (10ppb as high std)
Comment

* All concentrations are dilution corrected.

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
Calibration Zero	08-Dec-2010, 12:58	0.00	97.20	-8.83	-13	-17	-8	3	
Standard #1	08-Dec-2010, 13:00	0.50	7.20	996.00	892	1007	1034	1051	

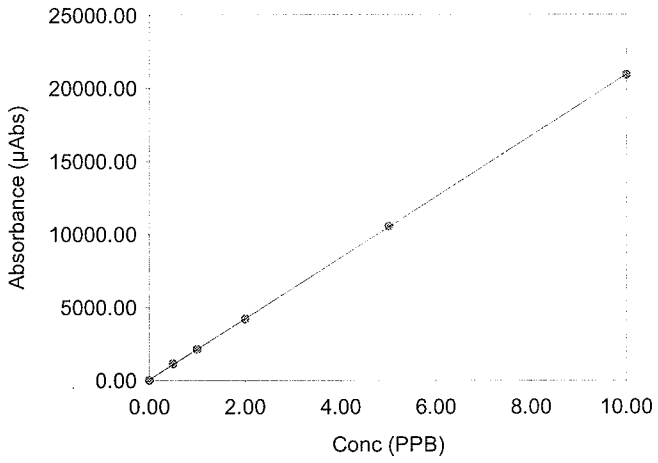
Information about this calibration could not be retrieved from the Master File.

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
Calibration Zero	08-Dec-2010, 13:04	0.00	11.00	-16.70	-16	-16	-19	-15	

Information about this calibration could not be retrieved from the Master File.

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
Calibration Zero	08-Dec-2010, 13:15	0.00	23.10	15.70	11	16	20	15	
Standard #1	08-Dec-2010, 13:17	0.50	2.40	1150.00	1112	1145	1165	1175	
Standard #2	08-Dec-2010, 13:19	1.00	2.36	2140.00	2078	2117	2150	2197	
Standard #3	08-Dec-2010, 13:21	2.00	2.27	4210.00	4088	4190	4263	4307	
Standard #4	08-Dec-2010, 13:23	5.00	2.62	10600.00	10245	10434	10678	10877	
Standard #5	08-Dec-2010, 13:25	10.00	2.67	20900.00	20144	20791	21243	21386	

Calibration Data



Int.	62.227
Slope	2085.866
Correlation	0.99998

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
ICV	08-Dec-2010, 13:28	2.89	1.52	6080.00	5961	6065	6126	6172	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
ICB	08-Dec-2010, 13:29	-0.02	6.91	10.90	8	12	8	15	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
MRL	08-Dec-2010, 13:31	0.17	1.95	409.00	401	413	408	416	
878267 LCSS35686	08-Dec-2010, 13:33	1.79	2.35	3810.00	3688	3790	3858	3886	
878266 MBS35686	08-Dec-2010, 13:35	-0.03	4.59	4.09	6	7	2	1	
869552	08-Dec-2010, 13:37	0.78	2.54	1700.00	1649	1682	1703	1748	
L869552	08-Dec-2010, 13:39	0.14	3.63	346.00	331	347	351	355	
DUP869552	08-Dec-2010, 13:41	0.56	22.90	1230.00	993	1035	1332	1563	
MSS869552	08-Dec-2010, 13:42	2.40	3.27	5070.00	4881	5010	5132	5263	
MSDS869552	08-Dec-2010, 13:44	1.84	20.10	3900.00	3261	3363	4038	4929	
PDSS869552	08-Dec-2010, 13:46	2.68	3.46	5660.00	5421	5589	5762	5860	
869553	08-Dec-2010, 13:48	1.45	2.11	3080.00	2997	3068	3101	3149	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
CCV	08-Dec-2010, 13:50	2.91	3.26	6140.00	5884	6088	6235	6341	

CETAC Hg Analysis Report - 10120802.DB - 12/08/2010, 16:41:56

Analyst
Date Started 12/08/2010, 13:52:20
Worksheet 7471 Soil (10ppb as high std)
Comment

* All concentrations are dilution corrected.

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
CCB	08-Dec-2010, 13:52	-0.02	6.70	12.50	16	8	11	14	
869554	08-Dec-2010, 13:54	0.56	2.81	1240.00	1201	1228	1247	1279	
869555	08-Dec-2010, 13:56	0.54	3.68	1190.00	1138	1172	1210	1232	
869556	08-Dec-2010, 13:57	0.82	3.15	1780.00	1713	1763	1813	1834	
878272 LCSS35687	08-Dec-2010, 13:59	1.86	2.82	3940.00	3802	3906	4005	4046	
878271 MBS35687	08-Dec-2010, 14:01	-0.02	0.68	13.90	14	13	14	14	
870188	08-Dec-2010, 14:03	0.68	9.00	1480.00	1387	1423	1447	1669	
870189	08-Dec-2010, 14:05	2.47	13.90	5210.00	4240	5127	5605	5862	
L870189	08-Dec-2010, 14:07	0.52	4.35	1140.00	1074	1138	1166	1180	
DUP870189	08-Dec-2010, 14:09	2.63	2.36	5550.00	5381	5533	5617	5682	
MSS870189	08-Dec-2010, 14:10	3.86	3.36	8120.00	7747	8099	8276	8355	
CCV	08-Dec-2010, 14:12	2.80	2.98	5900.00	5679	5855	5964	6088	
CCB	08-Dec-2010, 14:14	-0.03	8.38	5.39	-0	4	7	11	
MSDS870189	08-Dec-2010, 14:16	3.80	12.00	7980.00	6674	7917	8512	8816	
PDSS870189	08-Dec-2010, 14:18	4.42	3.38	9290.00	8916	9171	9441	9631	
870190	08-Dec-2010, 14:20	0.72	2.45	1570.00	1518	1567	1583	1605	
870191	08-Dec-2010, 14:22	1.02	4.37	2190.00	2059	2185	2239	2270	
870192	08-Dec-2010, 14:24	1.07	3.61	2290.00	2201	2236	2357	2354	
870193	08-Dec-2010, 14:26	1.19	2.93	2530.00	2434	2529	2573	2600	
870194	08-Dec-2010, 14:27	0.92	4.59	1980.00	1861	1973	2031	2060	
870195	08-Dec-2010, 14:29	0.93	8.06	1990.00	1774	1998	2087	2119	
870196	08-Dec-2010, 14:31	0.88	3.41	1900.00	1819	1892	1935	1963	
870197	08-Dec-2010, 14:33	0.76	5.33	1640.00	1538	1622	1668	1739	
CCV	08-Dec-2010, 14:35	2.90	3.87	6110.00	5805	6073	6230	6346	
CCB	08-Dec-2010, 14:37	-0.03	7.47	5.14	-1	6	6	9	
870208	08-Dec-2010, 14:39	1.22	4.13	2600.00	2459	2582	2659	2696	
870209	08-Dec-2010, 14:41	1.40	4.65	2970.00	2798	2944	3044	3109	
870210	08-Dec-2010, 14:42	0.72	18.60	1570.00	1202	1495	1740	1824	
870211	08-Dec-2010, 14:44	1.07	3.51	2290.00	2184	2292	2334	2362	
870212	08-Dec-2010, 14:46	1.00	2.82	2140.00	2062	2126	2177	2192	
870213	08-Dec-2010, 14:48	0.91	4.09	1950.00	1849	1937	1995	2024	
870214	08-Dec-2010, 14:50	1.13	4.55	2420.00	2290	2371	2466	2534	
870215	08-Dec-2010, 14:52	1.12	3.74	2410.00	2287	2399	2457	2485	
870216	08-Dec-2010, 14:54	0.85	20.00	1830.00	1362	1756	2039	2155	
878278 LCSS35688	08-Dec-2010, 14:56	1.79	2.02	3800.00	3702	3792	3836	3878	
CCV	08-Dec-2010, 14:57	2.74	3.31	5770.00	5551	5707	5851	5991	
CCB	08-Dec-2010, 14:59	-0.03	8.09	0.63	7	2	-5	-2	

CETAC Hg Analysis Report - 10120802.DB - 12/08/2010, 16:41:56

Analyst
Date Started 12/08/2010, 15:01:43
Worksheet 7471 Soil (10ppb as high std)
Comment

* All concentrations are dilution corrected.

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
878277 MBS35688	08-Dec-2010, 15:01	-0.03	1.98	3.32	4	5	2	3	
876763	08-Dec-2010, 15:03	0.30	2.49	688.00	669	684	691	706	
876771	08-Dec-2010, 15:05	0.31	2.50	714.00	695	706	726	729	
876772	08-Dec-2010, 15:07	0.26	4.09	602.00	576	596	608	628	
876773	08-Dec-2010, 15:09	0.31	3.20	704.00	677	702	712	726	
876774	08-Dec-2010, 15:11	0.27	2.35	623.00	607	619	630	638	
876775	08-Dec-2010, 15:13	0.28	2.57	645.00	625	641	652	660	
876776	08-Dec-2010, 15:14	0.31	2.84	699.00	675	694	708	717	
876777	08-Dec-2010, 15:16	0.29	14.40	670.00	547	671	723	741	
L876777	08-Dec-2010, 15:18	0.04	4.45	147.00	142	147	151	149	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
CCV	08-Dec-2010, 15:20	2.88	2.68	6070.00	5871	6033	6132	6252	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
CCB	08-Dec-2010, 15:22	-0.03	7.07	6.54	2	4	11	9	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
DUP876777	08-Dec-2010, 15:24	0.33	2.68	755.00	731	751	765	774	
MSS876777	08-Dec-2010, 15:26	2.16	2.73	4570.00	4415	4529	4633	4696	
MSDS876777	08-Dec-2010, 15:28	2.12	3.06	4490.00	4317	4470	4560	4632	
PDSS876777	08-Dec-2010, 15:29	2.28	3.08	4820.00	4652	4767	4875	4995	
876778	08-Dec-2010, 15:31	0.27	3.08	618.00	596	616	624	637	
876779	08-Dec-2010, 15:33	0.26	3.22	613.00	588	612	623	628	
876780	08-Dec-2010, 15:35	0.32	3.51	739.00	705	740	750	759	
878283 LCSS35689	08-Dec-2010, 15:37	1.81	2.89	3830.00	3687	3805	3882	3939	
878282 MBS35689	08-Dec-2010, 15:39	-0.03	1.48	2.30	3	3	2	1	
877680	08-Dec-2010, 15:41	0.29	3.06	673.00	648	669	686	688	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
CCV	08-Dec-2010, 15:43	2.68	5.95	5660.00	5201	5634	5823	5967	Q

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
CCB	08-Dec-2010, 15:45	-0.03	1.48	-1.67	-1	-3	-1	-2	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
877681	08-Dec-2010, 15:47	0.23	2.65	550.00	532	550	556	562	
877682	08-Dec-2010, 15:48	0.35	3.56	797.00	766	787	809	826	
877683	08-Dec-2010, 15:50	0.29	4.14	672.00	639	669	683	698	
877684	08-Dec-2010, 15:52	0.29	5.36	674.00	627	676	691	701	
877685	08-Dec-2010, 15:54	0.27	3.86	621.00	594	615	635	642	
877686	08-Dec-2010, 15:56	0.27	2.61	626.00	606	625	632	641	
877687	08-Dec-2010, 15:58	0.28	2.89	637.00	617	630	644	655	
L877687	08-Dec-2010, 16:00	0.03	10.80	130.00	122	126	135	138	
DUP877687	08-Dec-2010, 16:02	0.33	3.32	758.00	729	755	765	785	
MSS877687	08-Dec-2010, 16:04	2.13	2.59	4510.00	4366	4480	4558	4636	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
CCV	08-Dec-2010, 16:05	2.92	2.63	6150.00	5938	6130	6239	6304	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
CCB	08-Dec-2010, 16:07	-0.03	1.96	6.43	7	8	5	6	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
MSDS877687	08-Dec-2010, 16:09	2.15	3.31	4540.00	4348	4514	4591	4701	
PDSS877687	08-Dec-2010, 16:11	2.27	2.97	4810.00	4623	4782	4870	4952	
877688	08-Dec-2010, 16:13	0.31	2.05	718.00	703	714	720	735	
877689	08-Dec-2010, 16:15	0.32	3.04	730.00	706	723	735	754	
877690	08-Dec-2010, 16:17	0.24	2.58	568.00	552	565	575	582	
878262 LCSS35685	08-Dec-2010, 16:19	1.84	2.63	3910.00	3775	3886	3956	4009	

CETAC Hg Analysis Report - 10120802.DB - 12/08/2010, 16:41:56

Analyst
Date Started 12/08/2010, 16:21:07
Worksheet 7471 Soil (10ppb as high std)
Comment

* All concentrations are dilution corrected.

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
878261 MBS35685	08-Dec-2010, 16:21	-0.03	2.03	1.20	1	2	-0	2	
876765	08-Dec-2010, 16:23	-0.00	44.40	58.30	56	59	59	59	
MSS876765	08-Dec-2010, 16:24	1.73	3.26	3660.00	3520	3624	3708	3794	
MSDS876765	08-Dec-2010, 16:26	1.73	2.31	3670.00	3555	3652	3714	3743	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
CCV	08-Dec-2010, 16:28	2.72	3.08	5750.00	5523	5705	5827	5930	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
CCB	08-Dec-2010, 16:30	-0.03	3.85	2.91	6	3	1	2	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
PDSS876765	08-Dec-2010, 16:32	1.90	2.92	4030.00	3876	4015	4088	4144	
878077	08-Dec-2010, 16:34	2.80	4.42	5910.00	5549	5896	6038	6142	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
CCV	08-Dec-2010, 16:38	2.51	8.16	5290.00	4762	5136	5532	5719	Q

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
CCB	08-Dec-2010, 16:40	-0.03	6.31	-5.71	0	-6	-8	-9	

CETAC Hg Analysis Report - 10120802.DB - 12/08/2010, 16:41:54

Analyst
Date Started 12/08/2010, 12:58:19
Worksheet 7471 Soil (10ppb as high std)
Comment

* All concentrations are dilution corrected.

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
Calibration Zero	08-Dec-2010, 12:58	0.00	97.20	-8.83	-13	-17	-8	3	
Standard #1	08-Dec-2010, 13:00	0.50	7.20	996.00	892	1007	1034	1051	

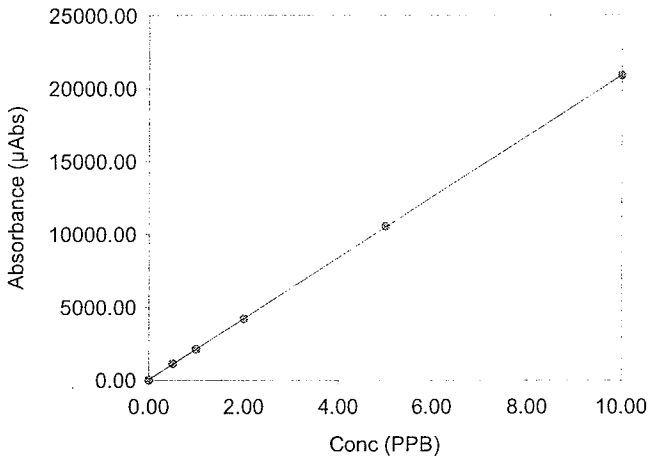
Information about this calibration could not be retrieved from the Master File.

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
Calibration Zero	08-Dec-2010, 13:04	0.00	11.00	-16.70	-16	-16	-19	-15	

Information about this calibration could not be retrieved from the Master File.

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
Calibration Zero	08-Dec-2010, 13:15	0.00	23.10	15.70	11	16	20	15	
Standard #1	08-Dec-2010, 13:17	0.50	2.40	1150.00	1112	1145	1165	1175	
Standard #2	08-Dec-2010, 13:19	1.00	2.36	2140.00	2078	2117	2150	2197	
Standard #3	08-Dec-2010, 13:21	2.00	2.27	4210.00	4088	4190	4263	4307	
Standard #4	08-Dec-2010, 13:23	5.00	2.62	10600.00	10245	10434	10678	10877	
Standard #5	08-Dec-2010, 13:25	10.00	2.67	20900.00	20144	20791	21243	21386	

Calibration Data



Int.	62.227
Slope	2085.866
Correlation	0.99998

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
ICV	08-Dec-2010, 13:28	2.89	1.52	6080.00	5961	6065	6126	6172	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
ICB	08-Dec-2010, 13:29	-0.02	6.91	10.90	8	12	8	15	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
MRL	08-Dec-2010, 13:31	0.17	1.95	409.00	401	413	408	416	
878267 LCSS35686	08-Dec-2010, 13:33	1.79	2.35	3810.00	3688	3790	3858	3886	
878266 MBS35686	08-Dec-2010, 13:35	-0.03	4.59	4.09	6	7	2	1	
869552	08-Dec-2010, 13:37	0.78	2.54	1700.00	1649	1682	1703	1748	
L869552	08-Dec-2010, 13:39	0.14	3.63	346.00	331	347	351	355	
DUP869552	08-Dec-2010, 13:41	0.56	22.90	1230.00	993	1035	1332	1563	
MSS869552	08-Dec-2010, 13:42	2.40	3.27	5070.00	4881	5010	5132	5263	
MSDS869552	08-Dec-2010, 13:44	1.84	20.10	3900.00	3261	3363	4038	4929	
PDSS869552	08-Dec-2010, 13:46	2.68	3.46	5660.00	5421	5589	5762	5860	
869553	08-Dec-2010, 13:48	1.45	2.11	3080.00	2997	3068	3101	3149	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
CCV	08-Dec-2010, 13:50	2.91	3.26	6140.00	5884	6088	6235	6341	

Analyst
Date Started 12/08/2010, 13:52:20
Worksheet 7471 Soil (10ppb as high std)
Comment

* All concentrations are dilution corrected.

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
CCB	08-Dec-2010, 13:52	-0.02	6.70	12.50	16	8	11	14	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
869554	08-Dec-2010, 13:54	0.56	2.81	1240.00	1201	1228	1247	1279	
869555	08-Dec-2010, 13:56	0.54	3.68	1190.00	1138	1172	1210	1232	
869556	08-Dec-2010, 13:57	0.82	3.15	1780.00	1713	1763	1813	1834	
878272 LCSS35687	08-Dec-2010, 13:59	1.86	2.82	3940.00	3802	3906	4005	4046	
878271 MBS35687	08-Dec-2010, 14:01	-0.02	0.68	13.90	14	13	14	14	
870188	08-Dec-2010, 14:03	0.68	9.00	1480.00	1387	1423	1447	1669	
870189	08-Dec-2010, 14:05	2.47	13.90	5210.00	4240	5127	5605	5862	
L870189	08-Dec-2010, 14:07	0.52	4.35	1140.00	1074	1138	1166	1180	
DUP870189	08-Dec-2010, 14:09	2.63	2.36	5550.00	5381	5533	5617	5682	
MSS870189	08-Dec-2010, 14:10	3.86	3.36	8120.00	7747	8099	8276	8355	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
CCV	08-Dec-2010, 14:12	2.80	2.98	5900.00	5679	5855	5964	6088	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
CCB	08-Dec-2010, 14:14	-0.03	8.38	5.39	-0	4	7	11	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
MSDS870189	08-Dec-2010, 14:16	3.80	12.00	7980.00	6674	7917	8512	8816	
PDSS870189	08-Dec-2010, 14:18	4.42	3.38	9290.00	8916	9171	9441	9631	
870190	08-Dec-2010, 14:20	0.72	2.45	1570.00	1518	1567	1583	1605	
870191	08-Dec-2010, 14:22	1.02	4.37	2190.00	2059	2185	2239	2270	
870192	08-Dec-2010, 14:24	1.07	3.61	2290.00	2201	2236	2357	2354	
870193	08-Dec-2010, 14:26	1.19	2.93	2530.00	2434	2529	2573	2600	
870194	08-Dec-2010, 14:27	0.92	4.59	1980.00	1861	1973	2031	2060	
870195	08-Dec-2010, 14:29	0.93	8.06	1990.00	1774	1998	2087	2119	
870196	08-Dec-2010, 14:31	0.88	3.41	1900.00	1819	1892	1935	1963	
870197	08-Dec-2010, 14:33	0.76	5.33	1640.00	1538	1622	1668	1739	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
CCV	08-Dec-2010, 14:35	2.90	3.87	6110.00	5805	6073	6230	6346	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
CCB	08-Dec-2010, 14:37	-0.03	7.47	5.14	-1	6	6	9	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
870208	08-Dec-2010, 14:39	1.22	4.13	2600.00	2459	2582	2659	2696	
870209	08-Dec-2010, 14:41	1.40	4.65	2970.00	2798	2944	3044	3109	
870210	08-Dec-2010, 14:42	0.72	18.60	1570.00	1202	1495	1740	1824	
870211	08-Dec-2010, 14:44	1.07	3.51	2290.00	2184	2292	2334	2362	
870212	08-Dec-2010, 14:46	1.00	2.82	2140.00	2062	2126	2177	2192	
870213	08-Dec-2010, 14:48	0.91	4.09	1950.00	1849	1937	1995	2024	
870214	08-Dec-2010, 14:50	1.13	4.55	2420.00	2290	2371	2466	2534	
870215	08-Dec-2010, 14:52	1.12	3.74	2410.00	2287	2399	2457	2485	
870216	08-Dec-2010, 14:54	0.85	20.00	1830.00	1362	1756	2039	2155	
878278 LCSS35688	08-Dec-2010, 14:56	1.79	2.02	3800.00	3702	3792	3836	3878	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
CCV	08-Dec-2010, 14:57	2.74	3.31	5770.00	5551	5707	5851	5991	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
CCB	08-Dec-2010, 14:59	-0.03	8.09	0.63	7	2	-5	-2	

Analyst
Date Started 12/08/2010, 15:01:43
Worksheet 7471 Soil (10ppb as high std)
Comment

* All concentrations are dilution corrected.

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
878277 MBS35688	08-Dec-2010, 15:01	-0.03	1.98	3.32	4	5	2	3	
876763	08-Dec-2010, 15:03	0.30	2.49	688.00	669	684	691	706	
876771	08-Dec-2010, 15:05	0.31	2.50	714.00	695	706	726	729	
876772	08-Dec-2010, 15:07	0.26	4.09	602.00	576	596	608	628	
876773	08-Dec-2010, 15:09	0.31	3.20	704.00	677	702	712	726	
876774	08-Dec-2010, 15:11	0.27	2.35	623.00	607	619	630	638	
876775	08-Dec-2010, 15:13	0.28	2.57	645.00	625	641	652	660	
876776	08-Dec-2010, 15:14	0.31	2.84	699.00	675	694	708	717	
876777	08-Dec-2010, 15:16	0.29	14.40	670.00	547	671	723	741	
L876777	08-Dec-2010, 15:18	0.04	4.45	147.00	142	147	151	149	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
CCV	08-Dec-2010, 15:20	2.88	2.68	6070.00	5871	6033	6132	6252	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
CCB	08-Dec-2010, 15:22	-0.03	7.07	6.54	2	4	11	9	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
DUP876777	08-Dec-2010, 15:24	0.33	2.68	755.00	731	751	765	774	
MSS876777	08-Dec-2010, 15:26	2.16	2.73	4570.00	4415	4529	4633	4696	
MSDS876777	08-Dec-2010, 15:28	2.12	3.06	4490.00	4317	4470	4560	4632	
PDSS876777	08-Dec-2010, 15:29	2.28	3.08	4820.00	4652	4767	4875	4995	
876778	08-Dec-2010, 15:31	0.27	3.08	618.00	596	616	624	637	
876779	08-Dec-2010, 15:33	0.26	3.22	613.00	588	612	623	628	
876780	08-Dec-2010, 15:35	0.32	3.51	739.00	705	740	750	759	
878283 LCSS35689	08-Dec-2010, 15:37	1.81	2.89	3830.00	3687	3805	3882	3939	
878282 MBS35689	08-Dec-2010, 15:39	-0.03	1.48	2.30	3	3	2	1	
877680	08-Dec-2010, 15:41	0.29	3.06	673.00	648	669	686	688	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
CCV	08-Dec-2010, 15:43	2.68	5.95	5660.00	5201	5634	5823	5967	Q

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
CCB	08-Dec-2010, 15:45	-0.03	1.48	-1.67	-1	-3	-1	-2	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
877681	08-Dec-2010, 15:47	0.23	2.65	550.00	532	550	556	562	
877682	08-Dec-2010, 15:48	0.35	3.56	797.00	766	787	809	826	
877683	08-Dec-2010, 15:50	0.29	4.14	672.00	639	669	683	698	
877684	08-Dec-2010, 15:52	0.29	5.36	674.00	627	676	691	701	
877685	08-Dec-2010, 15:54	0.27	3.86	621.00	594	615	635	642	
877686	08-Dec-2010, 15:56	0.27	2.61	626.00	606	625	632	641	
877687	08-Dec-2010, 15:58	0.28	2.89	637.00	617	630	644	655	
L877687	08-Dec-2010, 16:00	0.03	10.80	130.00	122	126	135	138	
DUP877687	08-Dec-2010, 16:02	0.33	3.32	758.00	729	755	765	785	
MSS877687	08-Dec-2010, 16:04	2.13	2.59	4510.00	4366	4480	4558	4636	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
CCV	08-Dec-2010, 16:05	2.92	2.63	6150.00	5938	6130	6239	6304	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
CCB	08-Dec-2010, 16:07	-0.03	1.96	6.43	7	8	5	6	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
MSDS877687	08-Dec-2010, 16:09	2.15	3.31	4540.00	4348	4514	4591	4701	
PDSS877687	08-Dec-2010, 16:11	2.27	2.97	4810.00	4623	4782	4870	4952	
877688	08-Dec-2010, 16:13	0.31	2.05	718.00	703	714	720	735	
877689	08-Dec-2010, 16:15	0.32	3.04	730.00	706	723	735	754	
877690	08-Dec-2010, 16:17	0.24	2.58	568.00	552	565	575	582	
878262 LCSS35685	08-Dec-2010, 16:19	1.84	2.63	3910.00	3775	3886	3956	4009	

CETAC Hg Analysis Report - 10120802.DB - 12/08/2010, 16:41:56

Analyst
Date Started 12/08/2010, 16:21:07
Worksheet 7471 Soil (10ppb as high std)
Comment

* All concentrations are dilution corrected.

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
878261 MBS35685	08-Dec-2010, 16:21	-0.03	2.03	1.20	1	2	-0	2	
876765	08-Dec-2010, 16:23	-0.00	44.40	58.30	56	59	59	59	
MSS876765	08-Dec-2010, 16:24	1.73	3.26	3660.00	3520	3624	3708	3794	
MSDS876765	08-Dec-2010, 16:26	1.73	2.31	3670.00	3555	3652	3714	3743	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
CCV	08-Dec-2010, 16:28	2.72	3.08	5750.00	5523	5705	5827	5930	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
CCB	08-Dec-2010, 16:30	-0.03	3.85	2.91	6	3	1	2	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
PDSS876765	08-Dec-2010, 16:32	1.90	2.92	4030.00	3876	4015	4088	4144	
878077	08-Dec-2010, 16:34	2.80	4.42	5910.00	5549	5896	6038	6142	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
CCV	08-Dec-2010, 16:38	2.51	8.16	5290.00	4762	5136	5532	5719	Q

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
CCB	08-Dec-2010, 16:40	-0.03	6.31	-5.71	0	-6	-8	-9	

METALS
LOGBOOK
DOCUMENTS

MICP SOIL QSM Analytical Run # 71910 on 12/23/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)		CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	874986							MICP SOIL QSM				
				ICV					0			
	874979							MICP SOIL QSM				
				ICB					0			
	874988							MICP SOIL QSM				
				MRL					0			
	874989							MICP SOIL QSM				
				ICSA					0			
	874990							MICP SOIL QSM				
				ICSAB					0			
	874993							MICP SOIL QSM				
				CCV					0			
	875079							MICP SOIL QSM				
				CCV					0			
	875080							MICP SOIL QSM				
				CCB					0			
	873323							ICP QSM				
				LCSS					35475			
	875077							MICP SOIL QSM				
				CCV					0			
	875081							MICP SOIL QSM				
				CCV					0			
	875082							MICP SOIL QSM				
				CCB					0			
	873322							ICP QSM				
				MBS					35475			
82424	870200		11/9/2010 0920			USACE - LOUISVILLE	RAVENNA	ICP QSM		S	**4**	
		DLASS-005-0001-SO							35475			
82424	870201		11/9/2010 1525			USACE - LOUISVILLE	RAVENNA	ICP QSM		S	**4**	
		DLASS-014-0001-SO		Designated MS/MSD					35475			
	875083							ICP QSM				
				L	870201				0			
	873481		11/9/2010 1525					ICP QSM				
		DLASS-014-0001-SO		DUP	870201				35475			
	873483		11/9/2010 1525					ICP QSM				
		DLASS-014-0001-SO		MSS	870201				35475			
RERUN		DLASS-014-0001-SO		MSS	870201				35475			

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MICP SOIL QSM Analytical Run # 71910 on 12/23/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)		CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	873484		11/9/2010 1525					ICP QSM				
		DLASS-014-0001-SO		MSDS	873483				35475			
RERUN		DLASS-014-0001-SO		MSDS	873483				35475			
	875084							ICP QSM				
				PDSS	870201				0			
	877665							ICP QSM				
				PDSS	870201							
82424	870202		11/9/2010 1500			USACE - LOUISVILLE	RAVENNA	ICP QSM		S	4	
		DLASS-011-0001-SO							35475			
82424	870203		11/9/2010 1535			USACE - LOUISVILLE	RAVENNA	ICP QSM		S	4	
		DLASS-014-0003-SO							35475			
	874994							MICP SOIL QSM				
				CCV					0			
	875746							MICP SOIL QSM				
				CCV					0			
	875747							MICP SOIL QSM				
				CCB					0			
82424	870204		11/10/2010 1316			USACE - LOUISVILLE	RAVENNA	ICP QSM		S	4	
		DLASS-030-0001-SO							35475			
82424	870207		11/9/2010 1600			USACE - LOUISVILLE	RAVENNA	ICP QSM		S	4	
		DLASS-026-0001-SO							35475			
82458	871184		11/11/2010 0900			USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S	4	
		DLASS-032-0003-SO							35475			
82458	871186		11/11/2010 1230			USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S	4	
		DLASS-042-0003-SO							35475			
82458	871187		11/11/2010 0931			USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S	4	
		DLASS-035-0001-SO							35475			
82458	871188		11/11/2010 1045			USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S	4	
		DLASS-036-0001-SO							35475			
82458	871189		11/11/2010 0945			USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S	4	
		DLASS-031-0001-SO							35475			
82458	871190		11/11/2010 1000			USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S	4	
		DLASS-039-0001-SO							35475			
82458	871191		11/11/2010 1310			USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S	4	
		DLASS-037-0001-SO							35475			
82458	871192		11/11/2010 1030			USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S	4	
		DLASS-034-0001-SO							35475			
	874996							MICP SOIL QSM				
				CCV					0			

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MICP SOIL QSM Analytical Run # 71910 on 12/23/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	875748						MICP SOIL QSM				
				CCV				0			
	875749						MICP SOIL QSM				
				CCB				0			
82458	871193	DLASS-038-0001-SO	11/11/2010 1043		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM	35475	S	**4**	
82458	871194	DLASS-044-0001-SO	11/11/2010 1235		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM	35475	S	**4**	
82458	871195	DLASS-041-0001-SO	11/11/2010 1020		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM	35475	S	**4**	
82458	871196	DLASS-040-0001-SO	11/11/2010 0920		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM	35475	S	**4**	
82458	871197	DLASS-042-0001-SO	11/11/2010 1220		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM	35475	S	**4**	
82458	871198	DLASS-032-0001-SO	11/11/2010 0900		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM	35475	S	**4**	
	875752						MICP SOIL QSM				
				CCV				0			
	875750						MICP SOIL QSM				
				CCV				0			
	875751						MICP SOIL QSM				
				CCB				0			
	877034						MICP SOIL QSM				
				ICV				0			
	877035						MICP SOIL QSM				
				ICB				0			
	877036						MICP SOIL QSM				
				MRL				0			
	877037						MICP SOIL QSM				
				ICSA				0			
	877038						MICP SOIL QSM				
				ICSAB				0			
	873323						ICP QSM				
RERUN				LCSS				35475			
RERUN				LCSS				35475			
	873322						ICP QSM				
RERUN				MBS				35475			
RERUN				MBS				35475			

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Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MICP SOIL QSM Analytical Run # 71910 on 12/23/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
82424	870200		11/9/2010 0920		USACE - LOUISVILLE	RAVENNA	ICP QSM		S	**4**	
RERUN		DLASS-005-0001-SO						35475			
RERUN		DLASS-005-0001-SO						35475			
RERUN		DLASS-005-0001-SO						35475			
82424	870201		11/9/2010 1525		USACE - LOUISVILLE	RAVENNA	ICP QSM		S	**4**	
RERUN		DLASS-014-0001-SO		Designated MS/MSD				35475			
RERUN		DLASS-014-0001-SO		Designated MS/MSD				35475			
RERUN		DLASS-014-0001-SO		Designated MS/MSD				35475			
	877657						ICP QSM				
				L 870201							
	873481		11/9/2010 1525				ICP QSM				
RERUN		DLASS-014-0001-SO		DUP 870201				35475			
RERUN		DLASS-014-0001-SO		DUP 870201				35475			
RERUN		DLASS-014-0001-SO		DUP 870201				35475			
	873483		11/9/2010 1525				ICP QSM				
RERUN		DLASS-014-0001-SO		MSS 870201				35475			
RERUN		DLASS-014-0001-SO		MSS 870201				35475			
	873484		11/9/2010 1525				ICP QSM				
RERUN		DLASS-014-0001-SO		MSDS 873483				35475			
RERUN		DLASS-014-0001-SO		MSDS 873483				35475			
	876019						ICP QSM				
				PDSS 870201							
	877055						MICP SOIL QSM				
				CCV				0			
	877041						MICP SOIL QSM				
				CCV				0			
	877042						MICP SOIL QSM				
				CCB				0			
82424	870202		11/9/2010 1500		USACE - LOUISVILLE	RAVENNA	ICP QSM		S	**4**	
RERUN		DLASS-011-0001-SO						35475			
RERUN		DLASS-011-0001-SO						35475			
RERUN		DLASS-011-0001-SO						35475			
82424	870203		11/9/2010 1535		USACE - LOUISVILLE	RAVENNA	ICP QSM		S	**4**	
RERUN		DLASS-014-0003-SO						35475			
RERUN		DLASS-014-0003-SO						35475			
RERUN		DLASS-014-0003-SO						35475			
82424	870204		11/10/2010 1316		USACE - LOUISVILLE	RAVENNA	ICP QSM		S	**4**	
RERUN		DLASS-030-0001-SO						35475			
RERUN		DLASS-030-0001-SO						35475			
RERUN		DLASS-030-0001-SO						35475			

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MICP SOIL QSM Analytical Run # 71910 on 12/23/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
82424	870207		11/9/2010 1600		USACE - LOUISVILLE	RAVENNA	ICP QSM		S	4	
RERUN		DLASS-026-0001-SO						35475			
RERUN		DLASS-026-0001-SO						35475			
RERUN		DLASS-026-0001-SO						35475			
82458	871184		11/11/2010 0900		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S	4	
RERUN		DLASS-032-0003-SO						35475			
RERUN		DLASS-032-0003-SO						35475			
RERUN		DLASS-032-0003-SO						35475			
RERUN		DLASS-032-0003-SO						35475			
82458	871186		11/11/2010 1230		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S	4	
RERUN		DLASS-042-0003-SO						35475			
RERUN		DLASS-042-0003-SO						35475			
RERUN		DLASS-042-0003-SO						35475			
82458	871187		11/11/2010 0931		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S	4	
RERUN		DLASS-035-0001-SO						35475			
RERUN		DLASS-035-0001-SO						35475			
RERUN		DLASS-035-0001-SO						35475			
82458	871188		11/11/2010 1045		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S	4	
RERUN		DLASS-036-0001-SO						35475			
RERUN		DLASS-036-0001-SO						35475			
RERUN		DLASS-036-0001-SO						35475			
82458	871189		11/11/2010 0945		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S	4	
RERUN		DLASS-031-0001-SO						35475			
RERUN		DLASS-031-0001-SO						35475			
RERUN		DLASS-031-0001-SO						35475			
82458	871190		11/11/2010 1000		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S	4	
RERUN		DLASS-039-0001-SO						35475			
RERUN		DLASS-039-0001-SO						35475			
RERUN		DLASS-039-0001-SO						35475			
	877053						MICP SOIL QSM				
				CCV				0			
	877043						MICP SOIL QSM				
				CCV				0			
	877044						MICP SOIL QSM				
				CCB				0			
82458	871191		11/11/2010 1310		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S	4	
RERUN		DLASS-037-0001-SO						35475			
RERUN		DLASS-037-0001-SO						35475			
RERUN		DLASS-037-0001-SO						35475			

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MICP SOIL QSM Analytical Run # 71910 on 12/23/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
82458	871192		11/11/2010 1030		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S	**4**	
RERUN		DLASS-034-0001-SO						35475			
RERUN		DLASS-034-0001-SO						35475			
RERUN		DLASS-034-0001-SO						35475			
82458	871193		11/11/2010 1043		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S	**4**	
RERUN		DLASS-038-0001-SO						35475			
RERUN		DLASS-038-0001-SO						35475			
RERUN		DLASS-038-0001-SO						35475			
RERUN		DLASS-038-0001-SO						35475			
RERUN		DLASS-038-0001-SO						35475			
82458	871194		11/11/2010 1235		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S	**4**	
RERUN		DLASS-044-0001-SO						35475			
RERUN		DLASS-044-0001-SO						35475			
RERUN		DLASS-044-0001-SO						35475			
RERUN		DLASS-044-0001-SO						35475			
RERUN		DLASS-044-0001-SO						35475			
82458	871195		11/11/2010 1020		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S	**4**	
RERUN		DLASS-041-0001-SO						35475			
RERUN		DLASS-041-0001-SO						35475			
RERUN		DLASS-041-0001-SO						35475			
RERUN		DLASS-041-0001-SO						35475			
RERUN		DLASS-041-0001-SO						35475			
82458	871196		11/11/2010 0920		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S	**4**	
RERUN		DLASS-040-0001-SO						35475			
RERUN		DLASS-040-0001-SO						35475			
RERUN		DLASS-040-0001-SO						35475			
RERUN		DLASS-040-0001-SO						35475			
RERUN		DLASS-040-0001-SO						35475			
82458	871197		11/11/2010 1220		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S	**4**	
RERUN		DLASS-042-0001-SO						35475			
RERUN		DLASS-042-0001-SO						35475			
RERUN		DLASS-042-0001-SO						35475			
RERUN		DLASS-042-0001-SO						35475			
82458	871198		11/11/2010 0900		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S	**4**	
RERUN		DLASS-032-0001-SO						35475			
RERUN		DLASS-032-0001-SO						35475			
RERUN		DLASS-032-0001-SO						35475			
RERUN		DLASS-032-0001-SO						35475			
RERUN		DLASS-032-0001-SO						35475			
RERUN		DLASS-032-0001-SO						35475			
	877051						MICP SOIL QSM				
				CCV				0			

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MICP SOIL QSM Analytical Run # 71910 on 12/23/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	877045						MICP SOIL QSM				
				CCV				0			
	877046						MICP SOIL QSM				
				CCB				0			
	878859						MICP SOIL QSM				
				ICV				0			
	878860						MICP SOIL QSM				
				ICB				0			
	878861						MICP SOIL QSM				
				MRL				0			
	878862						MICP SOIL QSM				
				ICSA				0			
	878863						MICP SOIL QSM				
				ICSAB				0			
82424	870204		11/10/2010 1316		USACE - LOUISVILLE	RAVENNA	ICP QSM		S		**4**
RERUN		DLASS-030-0001-SO						35475			
82424	870207		11/9/2010 1600		USACE - LOUISVILLE	RAVENNA	ICP QSM		S		**4**
RERUN		DLASS-026-0001-SO						35475			
82458	871184		11/11/2010 0900		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S		**4**
RERUN		DLASS-032-0003-SO						35475			
82458	871187		11/11/2010 0931		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S		**4**
RERUN		DLASS-035-0001-SO						35475			
82458	871188		11/11/2010 1045		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S		**4**
RERUN		DLASS-036-0001-SO						35475			
RERUN		DLASS-036-0001-SO						35475			
82458	871190		11/11/2010 1000		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S		**4**
RERUN		DLASS-039-0001-SO						35475			
82458	871191		11/11/2010 1310		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S		**4**
RERUN		DLASS-037-0001-SO						35475			
82458	871192		11/11/2010 1030		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S		**4**
RERUN		DLASS-034-0001-SO						35475			
	878878						MICP SOIL QSM				
				CCV				0			
	878864						MICP SOIL QSM				
				CCV				0			
	878865						MICP SOIL QSM				
				CCB				0			
82458	871193		11/11/2010 1043		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S		**4**
RERUN		DLASS-038-0001-SO						35475			

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

Distribution: Metals C:\LIMSREPS\ANALYTICALRUN.RPT Page 1 of 1

MICP SOIL QSM Analytical Run # 71910 on 12/23/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
82458	871194		11/11/2010 1235		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S	**4**	
RERUN		DLASS-044-0001-SO						35475			
82458	871197		11/11/2010 1220		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S	**4**	
RERUN		DLASS-042-0001-SO						35475			
82458	871198		11/11/2010 0900		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S	**4**	
RERUN		DLASS-032-0001-SO						35475			
	878866						MICP SOIL QSM				
				CCV				0			
	878868						MICP SOIL QSM				
				CCV				0			
	878867						MICP SOIL QSM				
				CCB				0			

174 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MICP SOIL QSM Analytical Run # 71911 on 12/23/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)		CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	874795							MICP SOIL QSM				
				ICV					0			
	874796							MICP SOIL QSM				
				ICB					0			
	874797							MICP SOIL QSM				
				MRL					0			
	874798							MICP SOIL QSM				
				ICSA					0			
	874799							MICP SOIL QSM				
				ICSAB					0			
	873323							ICP K QSM				
				LCSS					35475			
	873323							ICP NA QSM				
				LCSS					35475			
	873322							ICP K QSM				
				MBS					35475			
	873322							ICP NA QSM				
				MBS					35475			
82424	870200		11/9/2010 0920			USACE - LOUISVILLE	RAVENNA	ICP K QSM		S	**4**	
		DLASS-005-0001-SO							35475			
82424	870200		11/9/2010 0920			USACE - LOUISVILLE	RAVENNA	ICP NA QSM		S	**4**	
		DLASS-005-0001-SO							35475			
82424	870201		11/9/2010 1525			USACE - LOUISVILLE	RAVENNA	ICP K QSM		S	**4**	
		DLASS-014-0001-SO		Designated MS/MSD					35475			
82424	870201		11/9/2010 1525			USACE - LOUISVILLE	RAVENNA	ICP NA QSM		S	**4**	
		DLASS-014-0001-SO		Designated MS/MSD					35475			
	874800							ICP K QSM				
				L	870201				0			
	874800							ICP NA QSM				
				L	870201				0			
	873481		11/9/2010 1525					ICP K QSM				
		DLASS-014-0001-SO		DUP	870201				35475			
	873481		11/9/2010 1525					ICP NA QSM				
		DLASS-014-0001-SO		DUP	870201				35475			
	873483		11/9/2010 1525					ICP K QSM				
		DLASS-014-0001-SO		MSS	870201				35475			
	873483		11/9/2010 1525					ICP NA QSM				
		DLASS-014-0001-SO		MSS	870201				35475			

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MICP SOIL QSM Analytical Run # 71911 on 12/23/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)		CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	873484		11/9/2010 1525					ICP K QSM				
		DLASS-014-0001-SO		MSDS	873483				35475			
	873484		11/9/2010 1525					ICP NA QSM				
		DLASS-014-0001-SO		MSDS	873483				35475			
	874801							ICP K QSM				
				PDSS	870201				0			
	874801							ICP NA QSM				
				PDSS	870201				0			
82424	870202		11/9/2010 1500			USACE - LOUISVILLE	RAVENNA	ICP K QSM		S	**4**	
		DLASS-011-0001-SO							35475			
82424	870202		11/9/2010 1500			USACE - LOUISVILLE	RAVENNA	ICP NA QSM		S	**4**	
		DLASS-011-0001-SO							35475			
	874802							MICP SOIL QSM				
				CCV					0			
	874803							MICP SOIL QSM				
				CCB					0			
82424	870203		11/9/2010 1535			USACE - LOUISVILLE	RAVENNA	ICP K QSM		S	**4**	
		DLASS-014-0003-SO							35475			
82424	870203		11/9/2010 1535			USACE - LOUISVILLE	RAVENNA	ICP NA QSM		S	**4**	
		DLASS-014-0003-SO							35475			
82424	870204		11/10/2010 1316			USACE - LOUISVILLE	RAVENNA	ICP K QSM		S	**4**	
		DLASS-030-0001-SO							35475			
82424	870204		11/10/2010 1316			USACE - LOUISVILLE	RAVENNA	ICP NA QSM		S	**4**	
		DLASS-030-0001-SO							35475			
82424	870207		11/9/2010 1600			USACE - LOUISVILLE	RAVENNA	ICP K QSM		S	**4**	
		DLASS-026-0001-SO							35475			
82424	870207		11/9/2010 1600			USACE - LOUISVILLE	RAVENNA	ICP NA QSM		S	**4**	
		DLASS-026-0001-SO							35475			
82458	871184		11/11/2010 0900			USACE - LOUISVILLE	RAVENNA ORE PILES	ICP K QSM		S	**4**	
		DLASS-032-0003-SO							35475			
82458	871184		11/11/2010 0900			USACE - LOUISVILLE	RAVENNA ORE PILES	ICP NA QSM		S	**4**	
		DLASS-032-0003-SO							35475			
82458	871186		11/11/2010 1230			USACE - LOUISVILLE	RAVENNA ORE PILES	ICP K QSM		S	**4**	
		DLASS-042-0003-SO							35475			
82458	871186		11/11/2010 1230			USACE - LOUISVILLE	RAVENNA ORE PILES	ICP NA QSM		S	**4**	
		DLASS-042-0003-SO							35475			

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MICP SOIL QSM Analytical Run # 71911 on 12/23/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
82458	871187	DLASS-035-0001-SO	11/11/2010 0931		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP K QSM	35475	S	4	
82458	871187	DLASS-035-0001-SO	11/11/2010 0931		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP NA QSM	35475	S	4	
82458	871188	DLASS-036-0001-SO	11/11/2010 1045		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP K QSM	35475	S	4	
82458	871188	DLASS-036-0001-SO	11/11/2010 1045		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP NA QSM	35475	S	4	
82458	871189	DLASS-031-0001-SO	11/11/2010 0945		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP K QSM	35475	S	4	
82458	871189	DLASS-031-0001-SO	11/11/2010 0945		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP NA QSM	35475	S	4	
82458	871190	DLASS-039-0001-SO	11/11/2010 1000		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP K QSM	35475	S	4	
82458	871190	DLASS-039-0001-SO	11/11/2010 1000		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP NA QSM	35475	S	4	
82458	871191	DLASS-037-0001-SO	11/11/2010 1310		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP K QSM	35475	S	4	
82458	871191	DLASS-037-0001-SO	11/11/2010 1310		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP NA QSM	35475	S	4	
	874804			CCV			MICP SOIL QSM	0			
	874805			CCB			MICP SOIL QSM	0			
82458	871192	DLASS-034-0001-SO	11/11/2010 1030		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP K QSM	35475	S	4	
82458	871192	DLASS-034-0001-SO	11/11/2010 1030		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP NA QSM	35475	S	4	
82458	871193	DLASS-038-0001-SO	11/11/2010 1043		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP K QSM	35475	S	4	
82458	871193	DLASS-038-0001-SO	11/11/2010 1043		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP NA QSM	35475	S	4	
82458	871194	DLASS-044-0001-SO	11/11/2010 1235		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP K QSM	35475	S	4	
82458	871194	DLASS-044-0001-SO	11/11/2010 1235		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP NA QSM	35475	S	4	

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MICP SOIL QSM Analytical Run # 71911 on 12/23/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
82458	871195		11/11/2010 1020		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP K QSM		S	**4**	
		DLASS-041-0001-SO						35475			
82458	871195		11/11/2010 1020		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP NA QSM		S	**4**	
		DLASS-041-0001-SO						35475			
82458	871196		11/11/2010 0920		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP K QSM		S	**4**	
		DLASS-040-0001-SO						35475			
82458	871196		11/11/2010 0920		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP NA QSM		S	**4**	
		DLASS-040-0001-SO						35475			
82458	871197		11/11/2010 1220		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP K QSM		S	**4**	
		DLASS-042-0001-SO						35475			
82458	871197		11/11/2010 1220		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP NA QSM		S	**4**	
		DLASS-042-0001-SO						35475			
82458	871198		11/11/2010 0900		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP K QSM		S	**4**	
		DLASS-032-0001-SO						35475			
82458	871198		11/11/2010 0900		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP NA QSM		S	**4**	
		DLASS-032-0001-SO						35475			
	874806						MICP SOIL QSM				
				CCV				0			
	874807						MICP SOIL QSM				
				CCB				0			

65 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MICP SOIL QSM Analytical Run # 72201 on 12/23/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)		CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	878880							MICP SOIL QSM				
				ICV					0			
	878881							MICP SOIL QSM				
				ICB					0			
	878882							MICP SOIL QSM				
				MRL					0			
	878883							MICP SOIL QSM				
				ICSA					0			
	878884							MICP SOIL QSM				
				ICSAB					0			
	878885							MICP SOIL QSM				
				CCV					0			
	878895							MICP SOIL QSM				
				CCV					0			
	878896							MICP SOIL QSM				
				CCB					0			
	877403							ICP QSM				
				LCSS					35623			
	877402							ICP QSM				
				MBS					35623			
82399	869552		11/9/2010 1100			USACE - LOUISVILLE	RAVENNA	ICP QSM		S		**4**
		DLASS-010-0001-SO							35623			
	878900							ICP QSM				
				L	869552				0			
	877404		11/9/2010 1100					ICP QSM				
		DLASS-010-0001-SO		DUP	869552				35623			
	877405		11/9/2010 1100					ICP QSM				
		DLASS-010-0001-SO		MSS	869552				35623			
	877406		11/9/2010 1100					ICP QSM				
		DLASS-010-0001-SO		MSDS	877405				35623			
	878901							ICP QSM				
				PDSS	869552				0			
82399	869553		11/9/2010 1022			USACE - LOUISVILLE	RAVENNA	ICP QSM		S		**4**
		DLASS-019-0001-SO							35623			
82399	869554		11/9/2010 1155			USACE - LOUISVILLE	RAVENNA	ICP QSM		S		**4**
		DLASS-009-0001-SO							35623			
	878887							MICP SOIL QSM				
				CCV					0			

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MICP SOIL QSM Analytical Run # 72201 on 12/23/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	878902						MICP SOIL QSM				
				CCV				0			
	878903						MICP SOIL QSM				
				CCB				0			
82399	869555		11/9/2010 1235		USACE - LOUISVILLE	RAVENNA	ICP QSM		S	**4**	
		DLASS-024-0001-SO						35623			
82399	869556		11/9/2010 1028		USACE - LOUISVILLE	RAVENNA	ICP QSM		S	**4**	
		DLASS-004-0001-SO						35623			
	878889						MICP SOIL QSM				
				CCV				0			
	878904						MICP SOIL QSM				
				CCV				0			
	878905						MICP SOIL QSM				
				CCB				0			
	881159						MICP SOIL QSM				
				ICV				0			
	881160						MICP SOIL QSM				
				ICB				0			
	881161						MICP SOIL QSM				
				MRL				0			
	881162						MICP SOIL QSM				
				ICSA				0			
	881163						MICP SOIL QSM				
				ICSAB				0			
	881821						MICP SOIL QSM				
				CCV				0			
	881825						MICP SOIL QSM				
				CCV				0			
	881826						MICP SOIL QSM				
				CCB				0			
	877403						ICP QSM				
RERUN				LCSS				35623			
RERUN				LCSS				35623			
82399	869552		11/9/2010 1100		USACE - LOUISVILLE	RAVENNA	ICP QSM		S	**4**	
RERUN		DLASS-010-0001-SO						35623			
RERUN		DLASS-010-0001-SO						35623			
	882029						ICP QSM				
				L 869552							

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MICP SOIL QSM Analytical Run # 72201 on 12/23/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)		CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	877404		11/9/2010 1100					ICP QSM				
RERUN		DLASS-010-0001-SO		DUP	869552				35623			
RERUN		DLASS-010-0001-SO		DUP	869552				35623			
	877405		11/9/2010 1100					ICP QSM				
RERUN		DLASS-010-0001-SO		MSS	869552				35623			
	881835							MICP SOIL QSM				
				CCV					0			
	881828							MICP SOIL QSM				
				CCV					0			
	881829							MICP SOIL QSM				
				CCB					0			
	877406		11/9/2010 1100					ICP QSM				
RERUN		DLASS-010-0001-SO		MSDS	877405				35623			
	882030							ICP QSM				
				PDSS	869552							
82399	869553		11/9/2010 1022			USACE - LOUISVILLE	RAVENNA	ICP QSM		S	**4**	
RERUN		DLASS-019-0001-SO							35623			
RERUN		DLASS-019-0001-SO							35623			
82399	869554		11/9/2010 1155			USACE - LOUISVILLE	RAVENNA	ICP QSM		S	**4**	
RERUN		DLASS-009-0001-SO							35623			
RERUN		DLASS-009-0001-SO							35623			
82399	869555		11/9/2010 1235			USACE - LOUISVILLE	RAVENNA	ICP QSM		S	**4**	
RERUN		DLASS-024-0001-SO							35623			
RERUN		DLASS-024-0001-SO							35623			
RERUN		DLASS-024-0001-SO							35623			
RERUN		DLASS-024-0001-SO							35623			
82399	869556		11/9/2010 1028			USACE - LOUISVILLE	RAVENNA	ICP QSM		S	**4**	
RERUN		DLASS-004-0001-SO							35623			
RERUN		DLASS-004-0001-SO							35623			
RERUN		DLASS-004-0001-SO							35623			
	881833							MICP SOIL QSM				
				CCV					0			
	881831							MICP SOIL QSM				
				CCV					0			
	881832							MICP SOIL QSM				
				CCB					0			

61 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MICP SOIL QSM Analytical Run # 72202 on 12/23/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)		CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	878366							MICP SOIL QSM				
				ICV					0			
	878367							MICP SOIL QSM				
				ICB					0			
	878368							MICP SOIL QSM				
				MRL					0			
	878369							MICP SOIL QSM				
				ICSA					0			
	878370							MICP SOIL QSM				
				ICSAB					0			
	877403							ICP K QSM				
				LCSS					35623			
	877403							ICP NA QSM				
				LCSS					35623			
	877402							ICP K QSM				
				MBS					35623			
	877402							ICP NA QSM				
				MBS					35623			
	878379							MICP SOIL QSM				
				CCV					0			
	878380							MICP SOIL QSM				
				CCB					0			
82399	869552		11/9/2010 1100			USACE - LOUISVILLE	RAVENNA	ICP K QSM		S	**4**	
		DLASS-010-0001-SO							35623			
82399	869552		11/9/2010 1100			USACE - LOUISVILLE	RAVENNA	ICP NA QSM		S	**4**	
		DLASS-010-0001-SO							35623			
	878381							ICP K QSM				
				L	869552				0			
	878381							ICP NA QSM				
				L	869552				0			
	877404		11/9/2010 1100					ICP K QSM				
		DLASS-010-0001-SO		DUP	869552				35623			
	877404		11/9/2010 1100					ICP NA QSM				
		DLASS-010-0001-SO		DUP	869552				35623			
	877405		11/9/2010 1100					ICP K QSM				
		DLASS-010-0001-SO		MSS	869552				35623			
	877405		11/9/2010 1100					ICP NA QSM				
		DLASS-010-0001-SO		MSS	869552				35623			

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MICP SOIL QSM Analytical Run # 72202 on 12/23/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)		CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	877406		11/9/2010 1100					ICP K QSM				
		DLASS-010-0001-SO		MSDS	877405				35623			
	877406		11/9/2010 1100					ICP NA QSM				
		DLASS-010-0001-SO		MSDS	877405				35623			
	878382							ICP K QSM				
				PDSS	869552				0			
	878382							ICP NA QSM				
				PDSS	869552				0			
82399	869553		11/9/2010 1022			USACE - LOUISVILLE	RAVENNA	ICP K QSM		S	**4**	
		DLASS-019-0001-SO							35623			
82399	869553		11/9/2010 1022			USACE - LOUISVILLE	RAVENNA	ICP NA QSM		S	**4**	
		DLASS-019-0001-SO							35623			
82399	869554		11/9/2010 1155			USACE - LOUISVILLE	RAVENNA	ICP K QSM		S	**4**	
		DLASS-009-0001-SO							35623			
82399	869554		11/9/2010 1155			USACE - LOUISVILLE	RAVENNA	ICP NA QSM		S	**4**	
		DLASS-009-0001-SO							35623			
82399	869555		11/9/2010 1235			USACE - LOUISVILLE	RAVENNA	ICP K QSM		S	**4**	
		DLASS-024-0001-SO							35623			
82399	869555		11/9/2010 1235			USACE - LOUISVILLE	RAVENNA	ICP NA QSM		S	**4**	
		DLASS-024-0001-SO							35623			
82399	869556		11/9/2010 1028			USACE - LOUISVILLE	RAVENNA	ICP K QSM		S	**4**	
		DLASS-004-0001-SO							35623			
82399	869556		11/9/2010 1028			USACE - LOUISVILLE	RAVENNA	ICP NA QSM		S	**4**	
		DLASS-004-0001-SO							35623			
	878383							MICP SOIL QSM				
				CCV					0			
	878384							MICP SOIL QSM				
				CCB					0			

33 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MICP SOIL QSM Analytical Run # 72203 on 12/23/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)		CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	878852							MICP SOIL QSM				
				ICV					0			
	878854							MICP SOIL QSM				
				ICB					0			
	878855							MICP SOIL QSM				
				MRL					0			
	878856							MICP SOIL QSM				
				ICSA					0			
	882699							MICP SOIL QSM				
				ICSAB								
	879406							MICP SOIL QSM				
				CCV					0			
	879410							MICP SOIL QSM				
				CCV					0			
	879411							MICP SOIL QSM				
				CCB					0			
	877408							ICP QSM				
				LCSS					35624			
	877407							ICP QSM				
				MBS					35624			
82424	870188		11/10/2010 0955			USACE - LOUISVILLE	RAVENNA	ICP QSM		S	**4**	
		DLASS-027-0001-SO							35624			
82424	870189		11/10/2010 1015			USACE - LOUISVILLE	RAVENNA	ICP QSM		S	**4**	
		DLASS-002-0001-SO		Designated MS/MSD					35624			
	879412							ICP QSM				
				L	870189				0			
	877409		11/10/2010 1015					ICP QSM				
		DLASS-002-0001-SO		DUP	870189				35624			
	879408							MICP SOIL QSM				
				CCV					0			
	879413							MICP SOIL QSM				
				CCV					0			
	879414							MICP SOIL QSM				
				CCB					0			
	877410		11/10/2010 1015					ICP QSM				
		DLASS-002-0001-SO		MSS	870189				35624			
	877411		11/10/2010 1015					ICP QSM				
RERUN		DLASS-002-0001-SO		MSDS	877410				35624			
		DLASS-002-0001-SO		MSDS	877410				35624			

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

Distribution: C:\LIMSREPS\ANALYTICALRUN.RPT

MICP SOIL QSM Analytical Run # 72203 on 12/23/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	879415						ICP QSM				
				PDSS 870189				0			
82424	870190		11/10/2010 1225		USACE - LOUISVILLE	RAVENNA	ICP QSM		S	4	
		DLASS-018-0001-SO						35624			
82424	870191		11/10/2010 1030		USACE - LOUISVILLE	RAVENNA	ICP QSM		S	4	
		DLASS-001-0001-SO						35624			
82424	870192		11/10/2010 1405		USACE - LOUISVILLE	RAVENNA	ICP QSM		S	4	
		DLASS-016-0001-SO						35624			
82424	870193		11/10/2010 1330		USACE - LOUISVILLE	RAVENNA	ICP QSM		S	4	
		DLASS-017-0001-SO						35624			
82424	870194		11/9/2010 1220		USACE - LOUISVILLE	RAVENNA	ICP QSM		S	4	
		DLASS-022-0001-SO						35624			
82424	870195		11/9/2010 1230		USACE - LOUISVILLE	RAVENNA	ICP QSM		S	4	
		DLASS-022-0003-SO						35624			
82424	870196		11/9/2010 1100		USACE - LOUISVILLE	RAVENNA	ICP QSM		S	4	
		DLASS-008-0001-SO						35624			
	879423						MICP SOIL QSM				
				CCV				0			
	879416						MICP SOIL QSM				
				CCV				0			
	879417						MICP SOIL QSM				
				CCB				0			
82424	870197		11/9/2010 1030		USACE - LOUISVILLE	RAVENNA	ICP QSM		S	4	
		DLASS-021-0001-SO						35624			
82424	870208		11/9/2010 1620		USACE - LOUISVILLE	RAVENNA	ICP QSM		S	4	
		DLASS-029-0001-SO						35624			
82424	870209		11/9/2010 0900		USACE - LOUISVILLE	RAVENNA	ICP QSM		S	4	
		DLASS-007-0001-SO						35624			
82424	870210		11/9/2010 1000		USACE - LOUISVILLE	RAVENNA	ICP QSM		S	4	
		DLASS-020-0001-SO						35624			
82424	870211		11/9/2010 1549		USACE - LOUISVILLE	RAVENNA	ICP QSM		S	4	
		DLASS-028-0001-SO						35624			
82424	870212		11/10/2010 1025		USACE - LOUISVILLE	RAVENNA	ICP QSM		S	4	
		DLASS-002-0003-SO						35624			
82424	870213		11/9/2010 1630		USACE - LOUISVILLE	RAVENNA	ICP QSM		S	4	
		DLASS-012-0001-SO						35624			
82424	870214		11/9/2010 1500		USACE - LOUISVILLE	RAVENNA	ICP QSM		S	4	
		DLASS-025-0001-SO						35624			

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MICP SOIL QSM Analytical Run # 72203 on 12/23/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
82424	870215		11/9/2010 0900		USACE - LOUISVILLE	RAVENNA	ICP QSM		S	**4**	
		DLASS-006-0001-SO						35624			
82424	870216		11/9/2010 1458		USACE - LOUISVILLE	RAVENNA	ICP QSM		S	**4**	
		DLASS-013-0001-SO						35624			
	879421						MICP SOIL QSM				
				CCV				0			
	879418						MICP SOIL QSM				
				CCV				0			
	879419						MICP SOIL QSM				
				CCB				0			
	881166						MICP SOIL QSM				
				ICV				0			
	881167						MICP SOIL QSM				
				ICB				0			
	881168						MICP SOIL QSM				
				MRL				0			
	881169						MICP SOIL QSM				
				ICSA				0			
	881170						MICP SOIL QSM				
				ICSAB				0			
	881188						MICP SOIL QSM				
				CCV				0			
	881171						MICP SOIL QSM				
				CCV				0			
	881172						MICP SOIL QSM				
				CCB				0			
	881183						MICP SOIL QSM				
				CCV				0			
	881173						MICP SOIL QSM				
				CCV				0			
	881174						MICP SOIL QSM				
				CCB				0			
82424	870188		11/10/2010 0955		USACE - LOUISVILLE	RAVENNA	ICP QSM		S	**4**	
RERUN		DLASS-027-0001-SO						35624			
RERUN		DLASS-027-0001-SO						35624			
82424	870189		11/10/2010 1015		USACE - LOUISVILLE	RAVENNA	ICP QSM		S	**4**	
RERUN		DLASS-002-0001-SO		Designated MS/MSD				35624			
RERUN		DLASS-002-0001-SO		Designated MS/MSD				35624			

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Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MICP SOIL QSM Analytical Run # 72203 on 12/23/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)		CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	881765							ICP QSM				
				L	870189							
	877409		11/10/2010 1015					ICP QSM				
RERUN		DLASS-002-0001-SO		DUP	870189				35624			
RERUN		DLASS-002-0001-SO		DUP	870189				35624			
	877410		11/10/2010 1015					ICP QSM				
RERUN		DLASS-002-0001-SO		MSS	870189				35624			
	877411		11/10/2010 1015					ICP QSM				
RERUN		DLASS-002-0001-SO		MSDS	877410				35624			
RERUN		DLASS-002-0001-SO		MSDS	877410				35624			
	881766							ICP QSM				
				PDSS	870189							
82424	870190		11/10/2010 1225			USACE - LOUISVILLE	RAVENNA	ICP QSM		S	**4**	
RERUN		DLASS-018-0001-SO							35624			
RERUN		DLASS-018-0001-SO							35624			
RERUN		DLASS-018-0001-SO							35624			
82424	870191		11/10/2010 1030			USACE - LOUISVILLE	RAVENNA	ICP QSM		S	**4**	
RERUN		DLASS-001-0001-SO							35624			
82424	870192		11/10/2010 1405			USACE - LOUISVILLE	RAVENNA	ICP QSM		S	**4**	
RERUN		DLASS-016-0001-SO							35624			
RERUN		DLASS-016-0001-SO							35624			
	881185							MICP SOIL QSM				
				CCV					0			
	881177							MICP SOIL QSM				
				CCV					0			
	881178							MICP SOIL QSM				
				CCB					0			
82424	870193		11/10/2010 1330			USACE - LOUISVILLE	RAVENNA	ICP QSM		S	**4**	
RERUN		DLASS-017-0001-SO							35624			
RERUN		DLASS-017-0001-SO							35624			
82424	870194		11/9/2010 1220			USACE - LOUISVILLE	RAVENNA	ICP QSM		S	**4**	
RERUN		DLASS-022-0001-SO							35624			
82424	870195		11/9/2010 1230			USACE - LOUISVILLE	RAVENNA	ICP QSM		S	**4**	
RERUN		DLASS-022-0003-SO							35624			
RERUN		DLASS-022-0003-SO							35624			
82424	870196		11/9/2010 1100			USACE - LOUISVILLE	RAVENNA	ICP QSM		S	**4**	
RERUN		DLASS-008-0001-SO							35624			
RERUN		DLASS-008-0001-SO							35624			

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MICP SOIL QSM Analytical Run # 72203 on 12/23/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
82424	870197		11/9/2010 1030		USACE - LOUISVILLE	RAVENNA	ICP QSM		S	**4**	
RERUN		DLASS-021-0001-SO						35624			
RERUN		DLASS-021-0001-SO						35624			
RERUN		DLASS-021-0001-SO						35624			
82424	870208		11/9/2010 1620		USACE - LOUISVILLE	RAVENNA	ICP QSM		S	**4**	
RERUN		DLASS-029-0001-SO						35624			
RERUN		DLASS-029-0001-SO						35624			
RERUN		DLASS-029-0001-SO						35624			
82424	870209		11/9/2010 0900		USACE - LOUISVILLE	RAVENNA	ICP QSM		S	**4**	
RERUN		DLASS-007-0001-SO						35624			
RERUN		DLASS-007-0001-SO						35624			
RERUN		DLASS-007-0001-SO						35624			
82424	870210		11/9/2010 1000		USACE - LOUISVILLE	RAVENNA	ICP QSM		S	**4**	
RERUN		DLASS-020-0001-SO						35624			
RERUN		DLASS-020-0001-SO						35624			
RERUN		DLASS-020-0001-SO						35624			
82424	870211		11/9/2010 1549		USACE - LOUISVILLE	RAVENNA	ICP QSM		S	**4**	
RERUN		DLASS-028-0001-SO						35624			
RERUN		DLASS-028-0001-SO						35624			
RERUN		DLASS-028-0001-SO						35624			
82424	870212		11/10/2010 1025		USACE - LOUISVILLE	RAVENNA	ICP QSM		S	**4**	
RERUN		DLASS-002-0003-SO						35624			
RERUN		DLASS-002-0003-SO						35624			
	881772						MICP SOIL QSM				
				CCV1							
	881179						MICP SOIL QSM				
				CCV				0			
	881180						MICP SOIL QSM				
				CCB				0			
82424	870213		11/9/2010 1630		USACE - LOUISVILLE	RAVENNA	ICP QSM		S	**4**	
RERUN		DLASS-012-0001-SO						35624			
RERUN		DLASS-012-0001-SO						35624			
82424	870214		11/9/2010 1500		USACE - LOUISVILLE	RAVENNA	ICP QSM		S	**4**	
RERUN		DLASS-025-0001-SO						35624			
RERUN		DLASS-025-0001-SO						35624			
RERUN		DLASS-025-0001-SO						35624			
82424	870215		11/9/2010 0900		USACE - LOUISVILLE	RAVENNA	ICP QSM		S	**4**	
RERUN		DLASS-006-0001-SO						35624			
RERUN		DLASS-006-0001-SO						35624			
RERUN		DLASS-006-0001-SO						35624			

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MICP SOIL QSM Analytical Run # 72203 on 12/23/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
82424	870216		11/9/2010 1458		USACE - LOUISVILLE	RAVENNA	ICP QSM		S	**4**	
RERUN		DLASS-013-0001-SO						35624			
RERUN		DLASS-013-0001-SO						35624			
RERUN		DLASS-013-0001-SO						35624			
	881773						MICP SOIL QSM				
				CCV1							
	881181						MICP SOIL QSM				
				CCV				0			
	881182						MICP SOIL QSM				
				CCB				0			

116 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MICP SOIL QSM Analytical Run # 72204 on 12/23/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	878391						MICP SOIL QSM				
				ICV				0			
	878392						MICP SOIL QSM				
				ICB				0			
	878393						MICP SOIL QSM				
				MRL				0			
	878394						MICP SOIL QSM				
				ICSA				0			
	878395						MICP SOIL QSM				
				ICSAB				0			
	878401						MICP SOIL QSM				
				CCV				0			
	878402						MICP SOIL QSM				
				CCB				0			
	877408						ICP K QSM				
				LCSS				35624			
	877408						ICP NA QSM				
				LCSS				35624			
	877407						ICP K QSM				
				MBS				35624			
	877407						ICP NA QSM				
				MBS				35624			
82424	870188		11/10/2010 0955		USACE - LOUISVILLE	RAVENNA	ICP K QSM		S	**4**	
		DLASS-027-0001-SO						35624			
82424	870188		11/10/2010 0955		USACE - LOUISVILLE	RAVENNA	ICP NA QSM		S	**4**	
		DLASS-027-0001-SO						35624			
82424	870189		11/10/2010 1015		USACE - LOUISVILLE	RAVENNA	ICP K QSM		S	**4**	
		DLASS-002-0001-SO		Designated MS/MSD				35624			
82424	870189		11/10/2010 1015		USACE - LOUISVILLE	RAVENNA	ICP NA QSM		S	**4**	
		DLASS-002-0001-SO		Designated MS/MSD				35624			
	878403						ICP K QSM				
				L 870189				0			
	878403						ICP NA QSM				
				L 870189				0			
	877409		11/10/2010 1015				ICP K QSM				
		DLASS-002-0001-SO		DUP 870189				35624			
	877409		11/10/2010 1015				ICP NA QSM				
		DLASS-002-0001-SO		DUP 870189				35624			

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MICP SOIL QSM Analytical Run # 72204 on 12/23/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)		CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	877410		11/10/2010 1015					ICP K QSM				
		DLASS-002-0001-SO		MSS	870189				35624			
	877410		11/10/2010 1015					ICP NA QSM				
		DLASS-002-0001-SO		MSS	870189				35624			
	877411		11/10/2010 1015					ICP K QSM				
		DLASS-002-0001-SO		MSDS	877410				35624			
	877411		11/10/2010 1015					ICP NA QSM				
		DLASS-002-0001-SO		MSDS	877410				35624			
	878404							MICP SOIL QSM				
				CCV					0			
	878405							MICP SOIL QSM				
				CCB					0			
	878406							ICP K QSM				
				PDSS	870189				0			
	878406							ICP NA QSM				
				PDSS	870189				0			
82424	870190		11/10/2010 1225			USACE - LOUISVILLE	RAVENNA	ICP K QSM		S	**4**	
		DLASS-018-0001-SO							35624			
82424	870190		11/10/2010 1225			USACE - LOUISVILLE	RAVENNA	ICP NA QSM		S	**4**	
		DLASS-018-0001-SO							35624			
82424	870191		11/10/2010 1030			USACE - LOUISVILLE	RAVENNA	ICP K QSM		S	**4**	
		DLASS-001-0001-SO							35624			
82424	870191		11/10/2010 1030			USACE - LOUISVILLE	RAVENNA	ICP NA QSM		S	**4**	
		DLASS-001-0001-SO							35624			
82424	870192		11/10/2010 1405			USACE - LOUISVILLE	RAVENNA	ICP K QSM		S	**4**	
		DLASS-016-0001-SO							35624			
82424	870192		11/10/2010 1405			USACE - LOUISVILLE	RAVENNA	ICP NA QSM		S	**4**	
		DLASS-016-0001-SO							35624			
82424	870193		11/10/2010 1330			USACE - LOUISVILLE	RAVENNA	ICP K QSM		S	**4**	
		DLASS-017-0001-SO							35624			
82424	870193		11/10/2010 1330			USACE - LOUISVILLE	RAVENNA	ICP NA QSM		S	**4**	
		DLASS-017-0001-SO							35624			
82424	870194		11/9/2010 1220			USACE - LOUISVILLE	RAVENNA	ICP K QSM		S	**4**	
		DLASS-022-0001-SO							35624			
82424	870194		11/9/2010 1220			USACE - LOUISVILLE	RAVENNA	ICP NA QSM		S	**4**	
		DLASS-022-0001-SO							35624			

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MICP SOIL QSM Analytical Run # 72204 on 12/23/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
82424	870195		11/9/2010 1230		USACE - LOUISVILLE	RAVENNA	ICP K QSM		S	4	
		DLASS-022-0003-SO						35624			
82424	870195		11/9/2010 1230		USACE - LOUISVILLE	RAVENNA	ICP NA QSM		S	4	
		DLASS-022-0003-SO						35624			
82424	870196		11/9/2010 1100		USACE - LOUISVILLE	RAVENNA	ICP K QSM		S	4	
		DLASS-008-0001-SO						35624			
82424	870196		11/9/2010 1100		USACE - LOUISVILLE	RAVENNA	ICP NA QSM		S	4	
		DLASS-008-0001-SO						35624			
82424	870197		11/9/2010 1030		USACE - LOUISVILLE	RAVENNA	ICP K QSM		S	4	
		DLASS-021-0001-SO						35624			
82424	870197		11/9/2010 1030		USACE - LOUISVILLE	RAVENNA	ICP NA QSM		S	4	
		DLASS-021-0001-SO						35624			
82424	870208		11/9/2010 1620		USACE - LOUISVILLE	RAVENNA	ICP K QSM		S	4	
		DLASS-029-0001-SO						35624			
82424	870208		11/9/2010 1620		USACE - LOUISVILLE	RAVENNA	ICP NA QSM		S	4	
		DLASS-029-0001-SO						35624			
	878408						MICP SOIL QSM				
				CCV				0			
	878409						MICP SOIL QSM				
				CCB				0			
82424	870209		11/9/2010 0900		USACE - LOUISVILLE	RAVENNA	ICP K QSM		S	4	
		DLASS-007-0001-SO						35624			
82424	870209		11/9/2010 0900		USACE - LOUISVILLE	RAVENNA	ICP NA QSM		S	4	
		DLASS-007-0001-SO						35624			
82424	870210		11/9/2010 1000		USACE - LOUISVILLE	RAVENNA	ICP K QSM		S	4	
		DLASS-020-0001-SO						35624			
82424	870210		11/9/2010 1000		USACE - LOUISVILLE	RAVENNA	ICP NA QSM		S	4	
		DLASS-020-0001-SO						35624			
82424	870211		11/9/2010 1549		USACE - LOUISVILLE	RAVENNA	ICP K QSM		S	4	
		DLASS-028-0001-SO						35624			
82424	870211		11/9/2010 1549		USACE - LOUISVILLE	RAVENNA	ICP NA QSM		S	4	
		DLASS-028-0001-SO						35624			
82424	870212		11/10/2010 1025		USACE - LOUISVILLE	RAVENNA	ICP K QSM		S	4	
		DLASS-002-0003-SO						35624			
82424	870212		11/10/2010 1025		USACE - LOUISVILLE	RAVENNA	ICP NA QSM		S	4	
		DLASS-002-0003-SO						35624			

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MICP SOIL QSM Analytical Run # 72204 on 12/23/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
82424	870213		11/9/2010 1630		USACE - LOUISVILLE	RAVENNA	ICP K QSM		S	**4**	
		DLASS-012-0001-SO						35624			
82424	870213		11/9/2010 1630		USACE - LOUISVILLE	RAVENNA	ICP NA QSM		S	**4**	
		DLASS-012-0001-SO						35624			
82424	870214		11/9/2010 1500		USACE - LOUISVILLE	RAVENNA	ICP K QSM		S	**4**	
		DLASS-025-0001-SO						35624			
82424	870214		11/9/2010 1500		USACE - LOUISVILLE	RAVENNA	ICP NA QSM		S	**4**	
		DLASS-025-0001-SO						35624			
82424	870215		11/9/2010 0900		USACE - LOUISVILLE	RAVENNA	ICP K QSM		S	**4**	
		DLASS-006-0001-SO						35624			
82424	870215		11/9/2010 0900		USACE - LOUISVILLE	RAVENNA	ICP NA QSM		S	**4**	
		DLASS-006-0001-SO						35624			
82424	870216		11/9/2010 1458		USACE - LOUISVILLE	RAVENNA	ICP K QSM		S	**4**	
		DLASS-013-0001-SO						35624			
82424	870216		11/9/2010 1458		USACE - LOUISVILLE	RAVENNA	ICP NA QSM		S	**4**	
		DLASS-013-0001-SO						35624			
	878411						MICP SOIL QSM				
				CCV				0			
	878412						MICP SOIL QSM				
				CCB				0			

65 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MERCURY QSM SOIL Analytical Run
72018 on 12/23/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)		CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	875791							MERCURY QSM SOIL				
				ICV					0			
	875792							MERCURY QSM SOIL				
				ICB					0			
	874583							MERCURY QSM				
				LCSS					35531			
	874582							MERCURY QSM				
				MBS					35531			
82424	870200		11/9/2010 0920			USACE - LOUISVILLE	RAVENNA	MERCURY QSM		S	**4**	
		DLASS-005-0001-SO							35531			
82424	870201		11/9/2010 1525			USACE - LOUISVILLE	RAVENNA	MERCURY QSM		S	**4**	
		DLASS-014-0001-SO		Designated MS/MSD					35531			
	875793							MERCURY QSM				
				L	870201				0			
	874584		11/9/2010 1525					MERCURY QSM				
		DLASS-014-0001-SO		DUP	870201				35531			
	874585		11/9/2010 1525					MERCURY QSM				
		DLASS-014-0001-SO		MSS	870201				35531			
	874586		11/9/2010 1525					MERCURY QSM				
		DLASS-014-0001-SO		MSDS	874585				35531			
	875794							MERCURY QSM				
				PDSS	870201				0			
	875795							MERCURY QSM SOIL				
				CCV					0			
	875796							MERCURY QSM SOIL				
				CCB					0			
82424	870202		11/9/2010 1500			USACE - LOUISVILLE	RAVENNA	MERCURY QSM		S	**4**	
		DLASS-011-0001-SO							35531			
82424	870203		11/9/2010 1535			USACE - LOUISVILLE	RAVENNA	MERCURY QSM		S	**4**	
		DLASS-014-0003-SO							35531			
82424	870204		11/10/2010 1316			USACE - LOUISVILLE	RAVENNA	MERCURY QSM		S	**4**	
		DLASS-030-0001-SO							35531			
82424	870207		11/9/2010 1600			USACE - LOUISVILLE	RAVENNA	MERCURY QSM		S	**4**	
		DLASS-026-0001-SO							35531			
82458	871184		11/11/2010 0900			USACE - LOUISVILLE	RAVENNA ORE PILES	MERCURY QSM		S	**4**	
		DLASS-032-0003-SO							35531			
82458	871186		11/11/2010 1230			USACE - LOUISVILLE	RAVENNA ORE PILES	MERCURY QSM		S	**4**	
		DLASS-042-0003-SO							35531			

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MERCURY QSM SOIL Analytical Run
72018 on 12/23/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
82458	871187		11/11/2010 0931		USACE - LOUISVILLE	RAVENNA ORE PILES	MERCURY QSM		S	**4**	
		DLASS-035-0001-SO						35531			
82458	871188		11/11/2010 1045		USACE - LOUISVILLE	RAVENNA ORE PILES	MERCURY QSM		S	**4**	
		DLASS-036-0001-SO						35531			
82458	871189		11/11/2010 0945		USACE - LOUISVILLE	RAVENNA ORE PILES	MERCURY QSM		S	**4**	
		DLASS-031-0001-SO						35531			
82458	871190		11/11/2010 1000		USACE - LOUISVILLE	RAVENNA ORE PILES	MERCURY QSM		S	**4**	
		DLASS-039-0001-SO						35531			
	875797						MERCURY QSM SOIL				
				CCV				0			
	875798						MERCURY QSM SOIL				
				CCB				0			
82458	871191		11/11/2010 1310		USACE - LOUISVILLE	RAVENNA ORE PILES	MERCURY QSM		S	**4**	
		DLASS-037-0001-SO						35531			
82458	871192		11/11/2010 1030		USACE - LOUISVILLE	RAVENNA ORE PILES	MERCURY QSM		S	**4**	
		DLASS-034-0001-SO						35531			
82458	871193		11/11/2010 1043		USACE - LOUISVILLE	RAVENNA ORE PILES	MERCURY QSM		S	**4**	
		DLASS-038-0001-SO						35531			
82458	871194		11/11/2010 1235		USACE - LOUISVILLE	RAVENNA ORE PILES	MERCURY QSM		S	**4**	
		DLASS-044-0001-SO						35531			
82458	871195		11/11/2010 1020		USACE - LOUISVILLE	RAVENNA ORE PILES	MERCURY QSM		S	**4**	
		DLASS-041-0001-SO						35531			
82458	871196		11/11/2010 0920		USACE - LOUISVILLE	RAVENNA ORE PILES	MERCURY QSM		S	**4**	
		DLASS-040-0001-SO						35531			
82458	871197		11/11/2010 1220		USACE - LOUISVILLE	RAVENNA ORE PILES	MERCURY QSM		S	**4**	
		DLASS-042-0001-SO						35531			
82458	871198		11/11/2010 0900		USACE - LOUISVILLE	RAVENNA ORE PILES	MERCURY QSM		S	**4**	
		DLASS-032-0001-SO						35531			
	875799						MERCURY QSM SOIL				
				CCV				0			
	875800						MERCURY QSM SOIL				
				CCB				0			

35 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MERCURY QSM SOIL Analytical Run
72326 on 12/23/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)		CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	879513							MERCURY QSM SOIL				
				ICV					0			
	879514							MERCURY QSM SOIL				
				ICB					0			
	878267							MERCURY QSM				
				LCSS					35686			
	878266							MERCURY QSM				
				MBS					35686			
82399	869552		11/9/2010 1100			USACE - LOUISVILLE	RAVENNA	MERCURY QSM		S	**4**	
		DLASS-010-0001-SO							35686			
	879515							MERCURY QSM				
				L	869552				0			
	878268		11/9/2010 1100					MERCURY QSM				
		DLASS-010-0001-SO		DUP	869552				35686			
	878269		11/9/2010 1100					MERCURY QSM				
		DLASS-010-0001-SO		MSS	869552				35686			
	878270		11/9/2010 1100					MERCURY QSM				
		DLASS-010-0001-SO		MSDS	878269				35686			
	879516							MERCURY QSM				
				PDSS	869552				0			
82399	869553		11/9/2010 1022			USACE - LOUISVILLE	RAVENNA	MERCURY QSM		S	**4**	
		DLASS-019-0001-SO							35686			
	879517							MERCURY QSM SOIL				
				CCV					0			
	879518							MERCURY QSM SOIL				
				CCB					0			
82399	869554		11/9/2010 1155			USACE - LOUISVILLE	RAVENNA	MERCURY QSM		S	**4**	
		DLASS-009-0001-SO							35686			
82399	869555		11/9/2010 1235			USACE - LOUISVILLE	RAVENNA	MERCURY QSM		S	**4**	
		DLASS-024-0001-SO							35686			
82399	869556		11/9/2010 1028			USACE - LOUISVILLE	RAVENNA	MERCURY QSM		S	**4**	
		DLASS-004-0001-SO							35686			
	879519							MERCURY QSM SOIL				
				CCV					0			
	879520							MERCURY QSM SOIL				
				CCB					0			

18 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MERCURY QSM SOIL Analytical Run
72327 on 12/23/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)		CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	879535							MERCURY QSM SOIL				
				ICV					0			
	879536							MERCURY QSM SOIL				
				ICB					0			
	879537							MERCURY QSM SOIL				
				CCV					0			
	879538							MERCURY QSM SOIL				
				CCB					0			
	878272							MERCURY QSM				
				LCSS					35687			
	878271							MERCURY QSM				
				MBS					35687			
82424	870188		11/10/2010 0955			USACE - LOUISVILLE	RAVENNA	MERCURY QSM		S	**4**	
		DLASS-027-0001-SO							35687			
82424	870189		11/10/2010 1015			USACE - LOUISVILLE	RAVENNA	MERCURY QSM		S	**4**	
		DLASS-002-0001-SO		Designated MS/MSD					35687			
	879539							MERCURY QSM				
				L	870189				0			
	878274		11/10/2010 1015					MERCURY QSM				
		DLASS-002-0001-SO		DUP	870189				35687			
	878275		11/10/2010 1015					MERCURY QSM				
		DLASS-002-0001-SO		MSS	870189				35687			
	879540							MERCURY QSM SOIL				
				CCV					0			
	879541							MERCURY QSM SOIL				
				CCB					0			
	878276		11/10/2010 1015					MERCURY QSM				
		DLASS-002-0001-SO		MSDS	878275				35687			
	879542							MERCURY QSM				
				PDSS	870189				0			
82424	870190		11/10/2010 1225			USACE - LOUISVILLE	RAVENNA	MERCURY QSM		S	**4**	
		DLASS-018-0001-SO							35687			
82424	870191		11/10/2010 1030			USACE - LOUISVILLE	RAVENNA	MERCURY QSM		S	**4**	
		DLASS-001-0001-SO							35687			
82424	870192		11/10/2010 1405			USACE - LOUISVILLE	RAVENNA	MERCURY QSM		S	**4**	
		DLASS-016-0001-SO							35687			
82424	870193		11/10/2010 1330			USACE - LOUISVILLE	RAVENNA	MERCURY QSM		S	**4**	
		DLASS-017-0001-SO							35687			

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MERCURY QSM SOIL Analytical Run
72327 on 12/23/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
82424	870194	DLASS-022-0001-SO	11/9/2010 1220		USACE - LOUISVILLE	RAVENNA	MERCURY QSM	35687	S	**4**	
82424	870195	DLASS-022-0003-SO	11/9/2010 1230		USACE - LOUISVILLE	RAVENNA	MERCURY QSM	35687	S	**4**	
82424	870196	DLASS-008-0001-SO	11/9/2010 1100		USACE - LOUISVILLE	RAVENNA	MERCURY QSM	35687	S	**4**	
82424	870197	DLASS-021-0001-SO	11/9/2010 1030		USACE - LOUISVILLE	RAVENNA	MERCURY QSM	35687	S	**4**	
	879543						MERCURY QSM SOIL				
				CCV				0			
	879544						MERCURY QSM SOIL				
				CCB				0			
82424	870208	DLASS-029-0001-SO	11/9/2010 1620		USACE - LOUISVILLE	RAVENNA	MERCURY QSM	35687	S	**4**	
82424	870209	DLASS-007-0001-SO	11/9/2010 0900		USACE - LOUISVILLE	RAVENNA	MERCURY QSM	35687	S	**4**	
82424	870210	DLASS-020-0001-SO	11/9/2010 1000		USACE - LOUISVILLE	RAVENNA	MERCURY QSM	35687	S	**4**	
82424	870211	DLASS-028-0001-SO	11/9/2010 1549		USACE - LOUISVILLE	RAVENNA	MERCURY QSM	35687	S	**4**	
82424	870212	DLASS-002-0003-SO	11/10/2010 1025		USACE - LOUISVILLE	RAVENNA	MERCURY QSM	35687	S	**4**	
82424	870213	DLASS-012-0001-SO	11/9/2010 1630		USACE - LOUISVILLE	RAVENNA	MERCURY QSM	35687	S	**4**	
82424	870214	DLASS-025-0001-SO	11/9/2010 1500		USACE - LOUISVILLE	RAVENNA	MERCURY QSM	35687	S	**4**	
82424	870215	DLASS-006-0001-SO	11/9/2010 0900		USACE - LOUISVILLE	RAVENNA	MERCURY QSM	35687	S	**4**	
82424	870216	DLASS-013-0001-SO	11/9/2010 1458		USACE - LOUISVILLE	RAVENNA	MERCURY QSM	35687	S	**4**	
	879545						MERCURY QSM SOIL				
				CCV				0			
	879546						MERCURY QSM SOIL				
				CCB				0			

36 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

PREP WORKSHEET
on 12/23/2010

Prep Batch **35,475**

Prepped By:: AMA

Date Prepped: 11/18/2010

Date Entered:

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
	873322	MBS		ICP QSM	SOLID	50	2.0			
	873322	MBS		ICP K QSM	SOLID	50	2.0			
	873322	MBS		ICP NA QSM	SOLID	50	2.0			
	873322	MBS		ICP QSM	SOLID	50	2.0			
	873322	MBS		ICP QSM	SOLID	50	2.0			
	873323	LCSS		ICP QSM	SOLID	50	2.0			
	873323	LCSS		ICP K QSM	SOLID	50	2.0			
	873323	LCSS		ICP NA QSM	SOLID	50	2.0			
	873323	LCSS		ICP QSM	SOLID	50	2.0			
	873323	LCSS		ICP QSM	SOLID	50	2.0			
82424	870200			ICP QSM	SOIL	50	2.0		Y	
	870200			ICP QSM	SOIL	50	2.0		Y	
	870200			ICP QSM	SOIL	50	2.0		Y	
	870200			ICP K QSM	SOIL	50	2.0		N	
	870200			ICP NA QSM	SOIL	50	2.0		N	
	870200			ICP QSM	SOIL	50	2.0		Y	
	870201	*		ICP QSM	SOIL	50	2.0		Y	

PREP WORKSHEET
on 12/23/2010

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
82424	870201	*		ICP NA QSM	SOIL	50	2.0		N	
	870201	*		ICP K QSM	SOIL	50	2.0		N	
	870201	*		ICP QSM	SOIL	50	2.0		Y	
	870201	*		ICP QSM	SOIL	50	2.0		Y	
	870201	*		ICP QSM	SOIL	50	2.0		Y	
	870202			ICP QSM	SOIL	50	2.0		Y	
	870202			ICP QSM	SOIL	50	2.0		Y	
	870202			ICP K QSM	SOIL	50	2.0		N	
	870202			ICP QSM	SOIL	50	2.0		Y	
	870202			ICP NA QSM	SOIL	50	2.0		N	
	870202			ICP QSM	SOIL	50	2.0		Y	
	870203			ICP QSM	SOIL	50	2.0		Y	
	870203			ICP NA QSM	SOIL	50	2.0		N	
	870203			ICP QSM	SOIL	50	2.0		Y	
	870203			ICP K QSM	SOIL	50	2.0		N	
	870203			ICP QSM	SOIL	50	2.0		Y	
	870203			ICP QSM	SOIL	50	2.0		Y	
	870204			ICP QSM	SOIL	50	2.0		Y	
	870204			ICP QSM	SOIL	50	2.0		Y	

PREP WORKSHEET
on 12/23/2010

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
82424	870204			ICP QSM	SOIL	50	2.0		Y	
	870204			ICP K QSM	SOIL	50	2.0		N	
	870204			ICP QSM	SOIL	50	2.0		Y	
	870204			ICP QSM	SOIL	50	2.0		Y	
	870204			ICP NA QSM	SOIL	50	2.0		N	
	870207			ICP NA QSM	SOIL	50	2.0		N	
	870207			ICP QSM	SOIL	50	2.0		Y	
	870207			ICP QSM	SOIL	50	2.0		Y	
	870207			ICP K QSM	SOIL	50	2.0		N	
	870207			ICP QSM	SOIL	50	2.0		Y	
	870207			ICP QSM	SOIL	50	2.0		Y	
	870207			ICP QSM	SOIL	50	2.0		Y	
82458	871184			ICP QSM	SOIL	50	2.0		Y	
	871184			ICP QSM	SOIL	50	2.0		Y	
	871184			ICP QSM	SOIL	50	2.0		Y	
	871184			ICP K QSM	SOIL	50	2.0		N	
	871184			ICP NA QSM	SOIL	50	2.0		N	
	871184			ICP QSM	SOIL	50	2.0		Y	
	871184			ICP QSM	SOIL	50	2.0		Y	

PREP WORKSHEET
on 12/23/2010

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
82458	871184			ICP QSM	SOIL	50	2.0		Y	
	871186			ICP QSM	SOIL	50	2.0		Y	
	871186			ICP QSM	SOIL	50	2.0		Y	
	871186			ICP K QSM	SOIL	50	2.0		N	
	871186			ICP QSM	SOIL	50	2.0		Y	
	871186			ICP QSM	SOIL	50	2.0		Y	
	871186			ICP NA QSM	SOIL	50	2.0		N	
	871187			ICP NA QSM	SOIL	50	2.0		N	
	871187			ICP QSM	SOIL	50	2.0		Y	
	871187			ICP QSM	SOIL	50	2.0		Y	
	871187			ICP QSM	SOIL	50	2.0		Y	
	871187			ICP QSM	SOIL	50	2.0		Y	
	871187			ICP K QSM	SOIL	50	2.0		N	
	871187			ICP QSM	SOIL	50	2.0		Y	
	871188			ICP QSM	SOIL	50	2.0		Y	
	871188			ICP K QSM	SOIL	50	2.0		N	
	871188			ICP QSM	SOIL	50	2.0		Y	
	871188			ICP QSM	SOIL	50	2.0		Y	
	871188			ICP QSM	SOIL	50	2.0		Y	

PREP WORKSHEET
on 12/23/2010

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
82458	871188			ICP QSM	SOIL	50	2.0		Y	
	871188			ICP QSM	SOIL	50	2.0		Y	
	871188			ICP NA QSM	SOIL	50	2.0		N	
	871189			ICP NA QSM	SOIL	50	2.0		N	
	871189			ICP QSM	SOIL	50	2.0		Y	
	871189			ICP QSM	SOIL	50	2.0		Y	
	871189			ICP QSM	SOIL	50	2.0		Y	
	871189			ICP K QSM	SOIL	50	2.0		N	
	871189			ICP QSM	SOIL	50	2.0		Y	
	871190			ICP QSM	SOIL	50	2.0		Y	
	871190			ICP QSM	SOIL	50	2.0		Y	
	871190			ICP QSM	SOIL	50	2.0		Y	
	871190			ICP QSM	SOIL	50	2.0		Y	
	871190			ICP QSM	SOIL	50	2.0		Y	
	871190			ICP NA QSM	SOIL	50	2.0		N	
	871190			ICP K QSM	SOIL	50	2.0		N	
	871191			ICP K QSM	SOIL	50	2.0		N	
	871191			ICP NA QSM	SOIL	50	2.0		N	
	871191			ICP QSM	SOIL	50	2.0		Y	

PREP WORKSHEET
on 12/23/2010

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
82458	871191			ICP QSM	SOIL	50	2.0		Y	
	871191			ICP QSM	SOIL	50	2.0		Y	
	871191			ICP QSM	SOIL	50	2.0		Y	
	871191			ICP QSM	SOIL	50	2.0		Y	
	871192			ICP QSM	SOIL	50	2.0		Y	
	871192			ICP QSM	SOIL	50	2.0		Y	
	871192			ICP QSM	SOIL	50	2.0		Y	
	871192			ICP QSM	SOIL	50	2.0		Y	
	871192			ICP QSM	SOIL	50	2.0		Y	
	871192			ICP NA QSM	SOIL	50	2.0		N	
	871192			ICP K QSM	SOIL	50	2.0		N	
	871193			ICP K QSM	SOIL	50	2.0		N	
	871193			ICP QSM	SOIL	50	2.0		Y	
	871193			ICP NA QSM	SOIL	50	2.0		N	
	871193			ICP QSM	SOIL	50	2.0		Y	
	871193			ICP QSM	SOIL	50	2.0		Y	
	871193			ICP QSM	SOIL	50	2.0		Y	
	871193			ICP QSM	SOIL	50	2.0		Y	
	871193			ICP QSM	SOIL	50	2.0		Y	

PREP WORKSHEET
on 12/23/2010

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
82458	871193			ICP QSM	SOIL	50	2.0		Y	
	871194			ICP QSM	SOIL	50	2.0		Y	
	871194			ICP QSM	SOIL	50	2.0		Y	
	871194			ICP QSM	SOIL	50	2.0		Y	
	871194			ICP QSM	SOIL	50	2.0		Y	
	871194			ICP QSM	SOIL	50	2.0		Y	
	871194			ICP NA QSM	SOIL	50	2.0		N	
	871194			ICP QSM	SOIL	50	2.0		Y	
	871194			ICP QSM	SOIL	50	2.0		Y	
	871194			ICP K QSM	SOIL	50	2.0		N	
	871195			ICP K QSM	SOIL	50	2.0		N	
	871195			ICP QSM	SOIL	50	2.0		Y	
	871195			ICP NA QSM	SOIL	50	2.0		N	
	871195			ICP QSM	SOIL	50	2.0		Y	
	871195			ICP QSM	SOIL	50	2.0		Y	
	871195			ICP QSM	SOIL	50	2.0		Y	
	871195			ICP QSM	SOIL	50	2.0		Y	
	871195			ICP QSM	SOIL	50	2.0		Y	
	871196			ICP QSM	SOIL	50	2.0		Y	

PREP WORKSHEET
on 12/23/2010

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
82458	871196			ICP QSM	SOIL	50	2.0		Y	
	871196			ICP QSM	SOIL	50	2.0		Y	
	871196			ICP QSM	SOIL	50	2.0		Y	
	871196			ICP QSM	SOIL	50	2.0		Y	
	871196			ICP NA QSM	SOIL	50	2.0		N	
	871196			ICP QSM	SOIL	50	2.0		Y	
	871196			ICP K QSM	SOIL	50	2.0		N	
	871197			ICP K QSM	SOIL	50	2.0		N	
	871197			ICP QSM	SOIL	50	2.0		Y	
	871197			ICP QSM	SOIL	50	2.0		Y	
	871197			ICP NA QSM	SOIL	50	2.0		N	
	871197			ICP QSM	SOIL	50	2.0		Y	
	871197			ICP QSM	SOIL	50	2.0		Y	
	871197			ICP QSM	SOIL	50	2.0		Y	
	871197			ICP QSM	SOIL	50	2.0		Y	
	871198			ICP QSM	SOIL	50	2.0		Y	
	871198			ICP QSM	SOIL	50	2.0		Y	
	871198			ICP QSM	SOIL	50	2.0		Y	
	871198			ICP QSM	SOIL	50	2.0		Y	

PREP WORKSHEET
on 12/23/2010

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
82458	871198			ICP QSM	SOIL	50	2.0		Y	
	871198			ICP QSM	SOIL	50	2.0		Y	
	871198			ICP QSM	SOIL	50	2.0		Y	
	871198			ICP NA QSM	SOIL	50	2.0		N	
	871198			ICP QSM	SOIL	50	2.0		Y	
	871198			ICP K QSM	SOIL	50	2.0		N	
	873481	DUP	870201	ICP QSM	SOIL	50	2.0			
	873481	DUP	870201	ICP QSM	SOIL	50	2.0			
	873481	DUP	870201	ICP QSM	SOIL	50	2.0			
	873481	DUP	870201	ICP K QSM	SOIL	50	2.0			
	873481	DUP	870201	ICP NA QSM	SOIL	50	2.0			
	873481	DUP	870201	ICP QSM	SOIL	50	2.0			
	873483	MSS	870201	ICP K QSM	SOIL	50	2.0			
	873483	MSS	870201	ICP NA QSM	SOIL	50	2.0			
	873483	MSS	870201	ICP QSM	SOIL	50	2.0			
	873483	MSS	870201	ICP QSM	SOIL	50	2.0			
	873483	MSS	870201	ICP QSM	SOIL	50	2.0			
	873483	MSS	870201	ICP QSM	SOIL	50	2.0			
	873484	MSDS	873483	ICP QSM	SOIL	50	2.0			

PREP WORKSHEET
on 12/23/2010

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
	873484	MSDS	873483	ICP QSM	SOIL	50	2.0			
	873484	MSDS	873483	ICP QSM	SOIL	50	2.0			
	873484	MSDS	873483	ICP NA QSM	SOIL	50	2.0			
	873484	MSDS	873483	ICP QSM	SOIL	50	2.0			
	873484	MSDS	873483	ICP K QSM	SOIL	50	2.0			

Control Spike/Control Spike Dup Reference Number:_____ Methanol Supplier/Lot #:_____
Notes:_____

PREP WORKSHEET
on 12/23/2010

Prep Batch **35,623**

Prepped By:: AMA

Date Prepped: 12/2/2010

Date Entered:

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
	877402	MBS		ICP QSM	SOLID	50	2.0			
	877402	MBS		ICP K QSM	SOLID	50	2.0			
	877402	MBS		ICP NA QSM	SOLID	50	2.0			
	877403	LCSS		ICP QSM	SOLID	50	2.0			
	877403	LCSS		ICP K QSM	SOLID	50	2.0			
	877403	LCSS		ICP NA QSM	SOLID	50	2.0			
	877403	LCSS		ICP QSM	SOLID	50	2.0			
	877403	LCSS		ICP QSM	SOLID	50	2.0			
82399	869552			ICP QSM	SOIL	50	2.0		Y	
	869552			ICP QSM	SOIL	50	2.0		Y	
	869552			ICP K QSM	SOIL	50	2.0		N	
	869552			ICP NA QSM	SOIL	50	2.0		N	
	869552			ICP QSM	SOIL	50	2.0		Y	
	869553			ICP QSM	SOIL	50	2.0		Y	
	869553			ICP K QSM	SOIL	50	2.0		N	
	869553			ICP NA QSM	SOIL	50	2.0		N	
	869553			ICP QSM	SOIL	50	2.0		Y	

PREP WORKSHEET
on 12/23/2010

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
82399	869553			ICP QSM	SOIL	50	2.0		Y	
	869554			ICP QSM	SOIL	50	2.0		Y	
	869554			ICP QSM	SOIL	50	2.0		Y	
	869554			ICP NA QSM	SOIL	50	2.0		N	
	869554			ICP K QSM	SOIL	50	2.0		N	
	869554			ICP QSM	SOIL	50	2.0		Y	
	869555			ICP QSM	SOIL	50	2.0		Y	
	869555			ICP K QSM	SOIL	50	2.0		N	
	869555			ICP NA QSM	SOIL	50	2.0		N	
	869555			ICP QSM	SOIL	50	2.0		Y	
	869555			ICP QSM	SOIL	50	2.0		Y	
	869555			ICP QSM	SOIL	50	2.0		Y	
	869555			ICP QSM	SOIL	50	2.0		Y	
	869556			ICP QSM	SOIL	50	2.0		Y	
	869556			ICP QSM	SOIL	50	2.0		Y	
	869556			ICP QSM	SOIL	50	2.0		Y	
	869556			ICP NA QSM	SOIL	50	2.0		N	
	869556			ICP K QSM	SOIL	50	2.0		N	
	869556			ICP QSM	SOIL	50	2.0		Y	

PREP WORKSHEET
on 12/23/2010

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
	877404	DUP	869552	ICP QSM	SOIL	50	2.0			
	877404	DUP	869552	ICP QSM	SOIL	50	2.0			
	877404	DUP	869552	ICP K QSM	SOIL	50	2.0			
	877404	DUP	869552	ICP NA QSM	SOIL	50	2.0			
	877404	DUP	869552	ICP QSM	SOIL	50	2.0			
	877405	MSS	869552	ICP K QSM	SOIL	50	2.0			
	877405	MSS	869552	ICP NA QSM	SOIL	50	2.0			
	877405	MSS	869552	ICP QSM	SOIL	50	2.0			
	877405	MSS	869552	ICP QSM	SOIL	50	2.0			
	877406	MSDS	877405	ICP K QSM	SOIL	50	2.0			
	877406	MSDS	877405	ICP NA QSM	SOIL	50	2.0			
	877406	MSDS	877405	ICP QSM	SOIL	50	2.0			
	877406	MSDS	877405	ICP QSM	SOIL	50	2.0			

Control Spike/Control Spike Dup Reference Number:_____ Methanol Supplier/Lot #:_____
Notes:_____

PREP WORKSHEET
on 12/23/2010

Prep Batch **35,624**

Prepped By:: AMA

Date Prepped: 12/2/2010

Date Entered:

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
	877407	MBS		ICP QSM	SOLID	50	2.0			
	877407	MBS		ICP K QSM	SOLID	50	2.0			
	877407	MBS		ICP NA QSM	SOLID	50	2.0			
	877408	LCSS		ICP QSM	SOLID	50	2.0			
	877408	LCSS		ICP K QSM	SOLID	50	2.0			
	877408	LCSS		ICP NA QSM	SOLID	50	2.0			
82424	870188			ICP QSM	SOIL	50	2.0		Y	
	870188			ICP QSM	SOIL	50	2.0		Y	
	870188			ICP K QSM	SOIL	50	2.0		N	
	870188			ICP NA QSM	SOIL	50	2.0		N	
	870188			ICP QSM	SOIL	50	2.0		Y	
	870189	*		ICP NA QSM	SOIL	50	2.0		N	
	870189	*		ICP QSM	SOIL	50	2.0		Y	
	870189	*		ICP QSM	SOIL	50	2.0		Y	
	870189	*		ICP QSM	SOIL	50	2.0		Y	
	870189	*		ICP K QSM	SOIL	50	2.0		N	
	870190			ICP K QSM	SOIL	50	2.0		N	

PREP WORKSHEET
on 12/23/2010

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
82424	870190			ICP QSM	SOIL	50	2.0		Y	
	870190			ICP QSM	SOIL	50	2.0		Y	
	870190			ICP NA QSM	SOIL	50	2.0		N	
	870190			ICP QSM	SOIL	50	2.0		Y	
	870190			ICP QSM	SOIL	50	2.0		Y	
	870191			ICP QSM	SOIL	50	2.0		Y	
	870191			ICP NA QSM	SOIL	50	2.0		N	
	870191			ICP QSM	SOIL	50	2.0		Y	
	870191			ICP K QSM	SOIL	50	2.0		N	
	870192			ICP K QSM	SOIL	50	2.0		N	
	870192			ICP QSM	SOIL	50	2.0		Y	
	870192			ICP QSM	SOIL	50	2.0		Y	
	870192			ICP NA QSM	SOIL	50	2.0		N	
	870192			ICP QSM	SOIL	50	2.0		Y	
	870193			ICP QSM	SOIL	50	2.0		Y	
	870193			ICP NA QSM	SOIL	50	2.0		N	
	870193			ICP QSM	SOIL	50	2.0		Y	
	870193			ICP QSM	SOIL	50	2.0		Y	
	870193			ICP K QSM	SOIL	50	2.0		N	

PREP WORKSHEET
on 12/23/2010

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
82424	870194			ICP K QSM	SOIL	50	2.0		N	
	870194			ICP QSM	SOIL	50	2.0		Y	
	870194			ICP NA QSM	SOIL	50	2.0		N	
	870194			ICP QSM	SOIL	50	2.0		Y	
	870195			ICP QSM	SOIL	50	2.0		Y	
	870195			ICP QSM	SOIL	50	2.0		Y	
	870195			ICP QSM	SOIL	50	2.0		Y	
	870195			ICP NA QSM	SOIL	50	2.0		N	
	870195			ICP K QSM	SOIL	50	2.0		N	
	870196			ICP K QSM	SOIL	50	2.0		N	
	870196			ICP NA QSM	SOIL	50	2.0		N	
	870196			ICP QSM	SOIL	50	2.0		Y	
	870196			ICP QSM	SOIL	50	2.0		Y	
	870196			ICP QSM	SOIL	50	2.0		Y	
	870197			ICP QSM	SOIL	50	2.0		Y	
	870197			ICP NA QSM	SOIL	50	2.0		N	
	870197			ICP QSM	SOIL	50	2.0		Y	
	870197			ICP QSM	SOIL	50	2.0		Y	
	870197			ICP QSM	SOIL	50	2.0		Y	

PREP WORKSHEET
on 12/23/2010

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
82424	870197			ICP K QSM	SOIL	50	2.0		N	
	870208			ICP K QSM	SOIL	50	2.0		N	
	870208			ICP QSM	SOIL	50	2.0		Y	
	870208			ICP QSM	SOIL	50	2.0		Y	
	870208			ICP QSM	SOIL	50	2.0		Y	
	870208			ICP QSM	SOIL	50	2.0		Y	
	870208			ICP NA QSM	SOIL	50	2.0		N	
	870209			ICP NA QSM	SOIL	50	2.0		N	
	870209			ICP QSM	SOIL	50	2.0		Y	
	870209			ICP QSM	SOIL	50	2.0		Y	
	870209			ICP QSM	SOIL	50	2.0		Y	
	870209			ICP K QSM	SOIL	50	2.0		N	
	870209			ICP QSM	SOIL	50	2.0		Y	
	870210			ICP QSM	SOIL	50	2.0		Y	
	870210			ICP K QSM	SOIL	50	2.0		N	
	870210			ICP QSM	SOIL	50	2.0		Y	
	870210			ICP QSM	SOIL	50	2.0		Y	
	870210			ICP QSM	SOIL	50	2.0		Y	
	870210			ICP NA QSM	SOIL	50	2.0		N	

PREP WORKSHEET
on 12/23/2010

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
82424	870211			ICP NA QSM	SOIL	50	2.0		N	
	870211			ICP QSM	SOIL	50	2.0		Y	
	870211			ICP QSM	SOIL	50	2.0		Y	
	870211			ICP QSM	SOIL	50	2.0		Y	
	870211			ICP K QSM	SOIL	50	2.0		N	
	870211			ICP QSM	SOIL	50	2.0		Y	
	870212			ICP K QSM	SOIL	50	2.0		N	
	870212			ICP QSM	SOIL	50	2.0		Y	
	870212			ICP QSM	SOIL	50	2.0		Y	
	870212			ICP QSM	SOIL	50	2.0		Y	
	870212			ICP NA QSM	SOIL	50	2.0		N	
	870213			ICP NA QSM	SOIL	50	2.0		N	
	870213			ICP QSM	SOIL	50	2.0		Y	
	870213			ICP QSM	SOIL	50	2.0		Y	
	870213			ICP QSM	SOIL	50	2.0		Y	
	870213			ICP K QSM	SOIL	50	2.0		N	
	870214			ICP K QSM	SOIL	50	2.0		N	
	870214			ICP QSM	SOIL	50	2.0		Y	
	870214			ICP QSM	SOIL	50	2.0		Y	

PREP WORKSHEET
on 12/23/2010

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
82424	870214			ICP QSM	SOIL	50	2.0		Y	
	870214			ICP NA QSM	SOIL	50	2.0		N	
	870214			ICP QSM	SOIL	50	2.0		Y	
	870215			ICP QSM	SOIL	50	2.0		Y	
	870215			ICP NA QSM	SOIL	50	2.0		N	
	870215			ICP QSM	SOIL	50	2.0		Y	
	870215			ICP QSM	SOIL	50	2.0		Y	
	870215			ICP QSM	SOIL	50	2.0		Y	
	870215			ICP K QSM	SOIL	50	2.0		N	
	870216			ICP K QSM	SOIL	50	2.0		N	
	870216			ICP QSM	SOIL	50	2.0		Y	
	870216			ICP QSM	SOIL	50	2.0		Y	
	870216			ICP QSM	SOIL	50	2.0		Y	
	870216			ICP QSM	SOIL	50	2.0		Y	
	870216			ICP NA QSM	SOIL	50	2.0		N	
	877409	DUP	870189	ICP QSM	SOIL	50	2.0			
	877409	DUP	870189	ICP QSM	SOIL	50	2.0			
	877409	DUP	870189	ICP K QSM	SOIL	50	2.0			
	877409	DUP	870189	ICP NA QSM	SOIL	50	2.0			

PREP WORKSHEET
on 12/23/2010

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
	877409	DUP	870189	ICP QSM	SOIL	50	2.0			
	877410	MSS	870189	ICP K QSM	SOIL	50	2.0			
	877410	MSS	870189	ICP NA QSM	SOIL	50	2.0			
	877410	MSS	870189	ICP QSM	SOIL	50	2.0			
	877410	MSS	870189	ICP QSM	SOIL	50	2.0			
	877411	MSDS	877410	ICP QSM	SOIL	50	2.0			
	877411	MSDS	877410	ICP K QSM	SOIL	50	2.0			
	877411	MSDS	877410	ICP NA QSM	SOIL	50	2.0			
	877411	MSDS	877410	ICP QSM	SOIL	50	2.0			
	877411	MSDS	877410	ICP QSM	SOIL	50	2.0			
	877411	MSDS	877410	ICP QSM	SOIL	50	2.0			

Control Spike/Control Spike Dup Reference Number:_____ Methanol Supplier/Lot #:_____
Notes:_____

PREP WORKSHEET
on 12/23/2010

Prep Batch **35,531**

Prepped By:: AMA

Date Prepped: 11/23/2010

Date Entered:

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
	874582	MBS		MERCURY QSM	SOLID	25	0.60			
	874583	LCSS		MERCURY QSM	SOLID	25	0.60			
82424	870200			MERCURY QSM	SOIL	25	0.60		N	
	870201	*		MERCURY QSM	SOIL	25	0.60		N	
	870202			MERCURY QSM	SOIL	25	0.57		N	
	870203			MERCURY QSM	SOIL	25	0.57		N	
	870204			MERCURY QSM	SOIL	25	0.56		N	
	870207			MERCURY QSM	SOIL	25	0.57		N	
82458	871184			MERCURY QSM	SOIL	25	0.55		N	
	871186			MERCURY QSM	SOIL	25	0.55		N	
	871187			MERCURY QSM	SOIL	25	0.57		N	
	871188			MERCURY QSM	SOIL	25	0.58		N	
	871189			MERCURY QSM	SOIL	25	0.58		N	
	871190			MERCURY QSM	SOIL	25	0.55		N	
	871191			MERCURY QSM	SOIL	25	0.59		N	
	871192			MERCURY QSM	SOIL	25	0.56		N	
	871193			MERCURY QSM	SOIL	25	0.55		N	

PREP WORKSHEET
on 12/23/2010

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
82458	871194			MERCURY QSM	SOIL	25	0.55		N	
	871195			MERCURY QSM	SOIL	25	0.57		N	
	871196			MERCURY QSM	SOIL	25	0.59		N	
	871197			MERCURY QSM	SOIL	25	0.57		N	
	871198			MERCURY QSM	SOIL	25	0.57		N	
	874584	DUP	870201	MERCURY QSM	SOIL	25	0.59			
	874585	MSS	870201	MERCURY QSM	SOIL	25	0.58			
	874586	MSDS	874585	MERCURY QSM	SOIL	25	0.59			

Control Spike/Control Spike Dup Reference Number:_____ Methanol Supplier/Lot #:_____
Notes:_____

PREP WORKSHEET
on 12/23/2010

Prep Batch **35,686**

Prepped By:: AMA

Date Prepped: 12/7/2010

Date Entered:

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
	878266	MBS		MERCURY QSM	SOLID	25	0.60			
	878267	LCSS		MERCURY QSM	SOLID	25	0.60			
82399	869552			MERCURY QSM	SOIL	25	0.57		N	
	869553			MERCURY QSM	SOIL	25	0.55		N	
	869554			MERCURY QSM	SOIL	25	0.57		N	
	869555			MERCURY QSM	SOIL	25	0.57		N	
	869556			MERCURY QSM	SOIL	25	0.57		N	
	878268	DUP	869552	MERCURY QSM	SOIL	25	0.55			
	878269	MSS	869552	MERCURY QSM	SOIL	25	0.55			
	878270	MSDS	878269	MERCURY QSM	SOIL	25	0.60			

Control Spike/Control Spike Dup Reference Number:_____ Methanol Supplier/Lot #:_____

Notes:_____

Distibution: C:\LIMSREPS\PREPWRKSHT.RPT

PREP WORKSHEET
on 12/23/2010

Prep Batch **35,687**

Prepped By:: AMA

Date Prepped: 12/7/2010

Date Entered:

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
	878271	MBS		MERCURY QSM	SOLID	25	0.60			
	878272	LCSS		MERCURY QSM	SOLID	25	0.60			
82424	870188			MERCURY QSM	SOIL	25	0.56		N	
	870189	*		MERCURY QSM	SOIL	25	0.59		N	
	870190			MERCURY QSM	SOIL	25	0.55		N	
	870191			MERCURY QSM	SOIL	25	0.56		N	
	870192			MERCURY QSM	SOIL	25	0.56		N	
	870193			MERCURY QSM	SOIL	25	0.58		N	
	870194			MERCURY QSM	SOIL	25	0.55		N	
	870195			MERCURY QSM	SOIL	25	0.56		N	
	870196			MERCURY QSM	SOIL	25	0.56		N	
	870197			MERCURY QSM	SOIL	25	0.56		N	
	870208			MERCURY QSM	SOIL	25	0.57		N	
	870209			MERCURY QSM	SOIL	25	0.58		N	
	870210			MERCURY QSM	SOIL	25	0.57		N	
	870211			MERCURY QSM	SOIL	25	0.58		N	
	870212			MERCURY QSM	SOIL	25	0.57		N	

Distibution:Metals

C:\LIMSREPS\PREPWRKSHT.RPT

PREP WORKSHEET
on 12/23/2010

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
82424	870213			MERCURY QSM	SOIL	25	0.57		N	
	870214			MERCURY QSM	SOIL	25	0.59		N	
	870215			MERCURY QSM	SOIL	25	0.59		N	
	870216			MERCURY QSM	SOIL	25	0.59		N	
	878274	DUP	870189	MERCURY QSM	SOIL	25	0.56			
	878275	MSS	870189	MERCURY QSM	SOIL	25	0.55			
	878276	MSDS	878275	MERCURY QSM	SOIL	25	0.58			

Control Spike/Control Spike Dup Reference Number:_____ Methanol Supplier/Lot #:_____
Notes:_____

Analyst: AMA

Metals Digestion Summary - CT Laboratories Baraboo, WI

Date: 11/18/10 Time: 1730

Prep Batch#	Sample ID#	Matrix*	Prep Method**	Sample Amt (g or ml)	Final Vol. (ml)	Blk	Dup	MS	MSD	Spike/LCS /LFB info	Acid ID#
35475	LCSS	QC	3050	2.0g	50mL	X				0.5mL M9863 1mL M9786, 0.5mL M9753	AB 515507, 514
	870200	SO		2.0g							
	870201			2.0g			X	X	X	0.5mL M9863, 1mL M9659, M9374 1mL M9786, 0.5mL M9753	
	870202			2.0g							
	870203			2.0g							
	870204			2.0g							
	870207			2.0g							
	871184			2.0g							
	871186			2.0g							
	871187			2.0g							
	871188			2.0g							
	871189			2.0g							
	871190			2.0g							
	871191			2.0g							
	871192			2.0g							
	871193			2.0g							
	871194			2.0g							
	871195			2.0g							
	871196			2.0g							
	871197			2.0g							
	871198			2.0g							

Method Temperature Verification				*SO,SL,WW,GW,TCLP,SPLP,ASTM, other **3005,3010,3020,3050,3060		Review Date/Initials:
Block Used:	A	Initial Block Temp (C):	92c	Digestion Tube Lot #:	1007292	
Cell #		Final Block Temp (C):	91c	Comments:		

Analyst: AmA

Metals Digestion Summary - CT Laboratories Baraboo, WI

Date: 12/02/10 Time: 1540

Prep Batch#	Sample ID#	Matrix*	Prep Method**	Sample Amt (g or ml)	Final Vol. (ml)	Blk	Dup	MS	MSD	Spike/LCS /LFB info	Acid ID#
35622	LCSS	QC	3050	0.50g	50mL	X				0.1mL M9302 1mL M9934, 0.5mL M9863	AB-513,514,507
	873401	SL		0.59g							
	873402			0.59g							
	875622			2.00g							
	875762	Waste		0.58g				0.55g X	0.56g X	0.1mL M9302 1mL M9934, 0.5mL M9863	
	875988	SL		2.00g							
	876765			2.01g				2.03g X	2.00g X	0.1mL M9302 1mL M9934, 0.5mL M9863	
						12/02/10 AmA					
35623	LCSS	QC	3050	2.0g	50mL	X				0.5mL M9753 1mL M9934, 0.5mL M9863	AB-513,514,507
	869552	SO		2.0g			X	X	X	0.5mL M9753, 1mL M9659/M9374 1mL M9934, 0.5mL M9863	
	869553			2.0g							
	869554			2.0g							
	869555			2.0g							
	869556			2.0g							
						12/02/10 AmA					

Prepped at 1630 AmA

Method Temperature Verification		*SO,SL,WW,GW,TCLP,SPLP,ASTM, other **3005,3010,3020,3050,3060		Review Date/Initials:	
Block Used:	B	Initial Block Temp (C):	94C	Digestion Tube Lot #:	1008257
Cell #		* Final Block Temp (C):	93C	Comments:	

Analyst: AMA

Metals Digestion Summary - CT Laboratories Baraboo, WI

Date: 12/02/10 Time: 1630

Prep Batch#	Sample ID#	Matrix*	Prep Method**	Sample Amt (g or ml)	Final Vol. (ml)	Blk	Dup	MS	MSD	Spike/LCS /LFB info	Acid ID#
356241	LCSS	QC	3050	2.0g	50mL	X				0.5mL M9753 1mL M9934 0.5mL M9863	AB-513,514,507
	870188	SO		2.0g							
	870189			2.0g			X	X	X	0.5mL M9753, 1mL M9659/M9374 1mL M9934, 0.5mL M9863	
	870190			2.0g							
	870191			2.0g							
	870192			2.0g							
	870193			2.0g							
	870194			2.0g							
	870195			2.0g							
	870196			2.0g							
	870197			2.0g							
	870208			2.0g							
	870209			2.0g							
	870210			2.0g							
	870211			2.0g							
	870212			2.0g							
	870213			2.0g							
	870214			2.0g							
	870215			2.0g							
	870216			2.0g							
									*12/02/10 AMA		

Method Temperature Verification		*SO,SL,WW,GW,TCLP,SPLP,ASTM, other **3005,3010,3020,3050,3060		Review Date/Initials:	
Block Used:	B	Initial Block Temp (C):	92°C	Digestion Tube Lot #:	1008257
Cell #		Final Block Temp (C):	91°C	Comments:	

Prep Batch #: 35531

Method: 7470 / 7471

Mercury Sample Digestion Bench Sheet

Date: 11/23/10

Analyst: AmA

Sample #	Matrix	Sample Volume (ml)	Sample Weight (g)	Amt. DI H2O Added (ml)	Excess KMnO4 added (ml)	Amt. Aqua-Regia added (ml)	Spike (A or B)
0.5	QC	25mL	—	—	—	1.25mL	
1.0							
2.0							
4.0							
5.0							
10.0							
3.0 ICV							
3.0 CCV							
0.2 MRL							
Cal Check							
LCSS=2.0, 35531			0.60g	25mL			A
MBS, 35531			0.60g				
870200	SO		0.60g				
870201, Dup, MS, MSD			0.60, 0.59, 0.58, 0.59g				A
870202			0.57g				
870203			0.57g				
870204			0.56g				
870207			0.57g				
871184			0.55g				
871186			0.55g				
871187			0.57g				
871188			0.58g				
871189			0.58g				
871190			0.55g				
871191			0.59g				
871192			0.56g				
871193			0.55g				
871194			0.55g				
871195			0.57g				
871196			0.59g				
871197			0.57g				
871198			0.57g				

11/23/10 AmA

Prepped @ 1530 AmA

Sand Lot # M23481

Notes:

Std./Reagent	Prep ID #
KMnO4	M9906
K2S2O8	M9893
NaCl/Hydrox. SO4	M9941
SnCl2	M9942
HNO3	AB·515
H2SO4	AB·510
Calibration Stds.	M9935
Aqua-Regia	M9940
Water Bath Temperature (Start)	92°C
Water Bath Temperature (Finish)	92°C

A: Spike Volume (ml): 0.5mL
Spike Concentration: 100ug/L
Sample Volume (ml): 25mL
Spike Prep. ID #: M9936

B: Spike Volume (ml): _____
Spike Concentration: _____
Sample Volume (ml): _____
Spike Prep. ID #: _____

Reviewed By (Initials-Date): _____

Prep Batch #: 35685, 35686

Method: 7470a / 7471a

Mercury Sample Digestion Bench Sheet

Date: 12/07/10
Time: 1530
Analyst: AmA

Sample #	Matrix	Sample Volume (ml)	Sample Weight (g)	Amt. DI H2O Added (ml)	Excess KMnO4 added (ml)	Amt. Aqua-Regia added (ml)	Spike (A or B)
0.5	QC	25mL	—	—	—	1.25mL	
1.0	↓	↓	↓	↓	↓	↓	
2.0							
4.0							
5.0							
10.0							
3.0 ICV							
3.0 CCV							
0.2 MRL							
Cal check			↓	↓			
LCSS=2.0, 35685			0.60g	25mL			A
MBS, 35685	↓		0.60g	↓			
876765, MS, MSD	SL		0.56, 0.56, 0.58g				A
878077	↓	↓	0.59g	↓	↓	↓	
			12/07/10 AmA				
LCSS=2.0, 35686	QC	25mL	0.60g	25mL	—	1.25mL	A
MBS, 35686	↓	↓	0.60g	↓	↓	↓	
869552, Dup, MS, MSD	SO		0.57, 0.55, 0.55, 0.60g				A
869553	↓		0.55g				
869554			0.57g				
869555			0.57g				
869556			0.57g				
			12/07/10 AmA				

Notes:

Std./Reagent	Prep ID #
KMnO4	M9944
K2S2O8	M9893
NaCl/Hydrox. SO4	M9941
SnCl2	M9968
HNO3	AB-515
H2SO4	AB-510
Calibration Stds.	M9962
Aqua-Regia	M9967
Method Blank Sand ID#	M23481
Digestion Tube Lot ID#	188555

Water Bath Temperature (Start) 91C
Water Bath Temperature (Finish) 92C

A: Spike Volume (ml): 0.5mL
Spike Concentration: 100µg/L
Sample Volume (ml): 25mL
Spike Prep. ID #: M9963

B: Spike Volume (ml): _____
Spike Concentration: _____
Sample Volume (ml): _____
Spike Prep. ID #: _____

Reviewed By (Initials-Date): _____

Prep Batch #: 35687

Method: 7470a / 7471a

Mercury Sample Digestion Bench Sheet

Date: 12/07/10
Time: 1530
Analyst: AmA

Sample #	Matrix	Sample Volume (ml)	Sample Weight (g)	Amt. DI H2O Added (ml)	Excess KMnO4 added (ml)	Amt. Aqua-Regia added (ml)	Spike (A or B)
LCSS=2.0 35687	QC	25mL	0.60g	25mL	—	1.25mL	A
MB2, 35687	↓		0.60g				
870188	SO		0.56g				
870189, Dup, MS, MSD			0.59, 0.56, 0.55, 0.59g				A
870190			0.55g				
870191			0.56g				
870192			0.56g				
870193			0.59g				
870194			0.55g				
870195			0.56g				
870196			0.56g				
870197			0.56g				
870208			0.57g				
870209			0.58g				
870210			0.57g				
870211			0.58g				
870212			0.57g				
870213			0.57g				
870214			0.57g				
870215			0.59g				
870216			0.59g				

12/07/10 AmA

Notes:

Std./Reagent	Prep ID.#
KMnO4	M9944
K2S2O8	M9893
NaCl/Hydrox. SO4	M9941
SnCl2	M9960
HNO3	AB:515
H2SO4	AB:510
Calibration Stds.	M9962
Aqua-Regia	M9967
Method Blank Sand ID#	M23481
Digestion Tube Lot ID#	198555

Water Bath Temperature (Start) 92c
Water Bath Temperature (Finish) 92c

A: Spike Volume (ml): 0.5mL
Spike Concentration: 100µg/L
Sample Volume (ml): 25mL
Spike Prep. ID #: M9963

B: Spike Volume (ml): _____
Spike Concentration: _____
Sample Volume (ml): _____
Spike Prep. ID #: _____

Reviewed By (Initials-Date): _____

iCAP 6000 / 6500 Data Review Checklist	Analysis Date: 11-19-10		Data File: DODResults	Date of review: 12-09-10	
Cal Std ID: 10817 LIMS #: 21910	Analyst:		Reviewer: BAE	Approved? Yes No	
QC Parameters : 6010 / 200.7 / QSM / Other	**YES**	**NO**	**YES**	**NO**	**Comments:**
1) Calibration linearity: r ≥ 0.995 / r > 0.998	✓		✓		
2) ICV: 90-110% / 95-105%	✓		✓		
3) ICB: < 3X IDL / <LOD / <LOQ	✓		✓		
4) ICSA: < ABS LOD	✓		✓		Ca "B"
5) ICSAB: 80-120%	✓		✓		
6) MRL: 70-130% / 80-120%	✓		✓		
7) MDL Check: >LOD					
8) CCV1/CCB1 (CCV: 90-110%)	✓		✓	✓	
9) CCV2/CCB2 (CCB: < 3X IDL / <LOD / <LOQ)	✓		✓	✓	
10) CCV3/CCB3	✓		✓	✓	
11) CCV4/CCB4	✓		✓	✓	
12) CCV5/CCB5					
13) CCV6/CCB6					
Preparation Batch Parameters	**YES**	**NO**	**YES**	**NO**	
Prep Batch ID#: 35475 Dig. Meth. 3050	✓		✓		
LCS - generated limits or project specific limits	✓		✓		
MB - <LOD or ≤ ½ RL	✓	✓	✓	✓	Al, Fe, Mn, V >10D Samples >10 Reported N.R
Spiked samples in batch:					
a) 870201 matrix = SO	✓	✓	✓	✓	Ba, Be, Cd, Ca, Fe, Se, Zn, Tl
b) matrix =					Y- Ag, Sb, Tl, Fe, Se, Zn, Tl
c) matrix =					
PDS: ±15% / 20% / 25% Sample#: 870201	✓		✓		MSS, Fe, Pb, Mn, Se, Ag, Sb, Tl, Zn, Cr
Prep Batch ID#: Dig. Meth.					MSDS Mn, Ag, Sb, Ag
LCS - generated limits or project specific limits					
MB - <LOD or ≤ ½ RL					
Spiked samples in batch:					PDS Ag, Fe "M"
a) matrix =					
b) matrix =					
c) matrix =					
PDS: ±15% / 20% / 25% Sample#:					
Prep Batch ID#: Dig. Meth.					
LCS - generated limits or project specific limits					
MB - <LOD or ≤ ½ RL					
Spiked samples in batch:					
a) matrix =					
b) matrix =					
c) matrix =					
PDS: ±15% / 20% / 25% Sample#:					
Prep Batch ID#: Dig. Meth.					
LCS - generated limits or project specific limits					
MB - <LOD or ≤ ½ RL					
Spiked samples in batch:					
a) matrix =					
b) matrix =					
c) matrix =					
PDS: ±15% / 20% / 25% Sample#:					
Prep Batch ID#: Dig. Meth.					
LCS - generated limits or project specific limits					
MB - <LOD or ≤ ½ RL					
Spiked samples in batch:					
a) matrix =					
b) matrix =					
c) matrix =					
PDS: ±15% / 20% / 25% Sample#:					

iCAP 6000 / 6500 Data Review Checklist	Analysis Date: 11-22-10		Data File: Nak Results		Date of review: 11/24/10
Cal Std ID: M9904 LIMS # : 47911	Analyst:		Reviewer:		Approved? Yes No
QC Parameters: 6010 / 200.7 / QSM / Other	**YES**	**NO**	**YES**	**NO**	**Comments:**
1) Calibration linearity: <> 0.995 / > 0.998	✓		✓		
2) ICV: 90-110% / 95-105%	✓		✓		
3) ICB: < 3X IDL / <LOD / <LOQ	✓		✓		
4) ICSA: < ABS LOD	✓		✓		
5) ICSAB: 80-120%	✓		✓		
6) MRL: 70-130% / 80-120%	✓		✓		
7) MDL Check: >LOD					
8) CCV1/CCB1 (CCV: 90-110%)	✓		✓		
9) CCV2/CCB2 (CCB: < 3X IDL / <LOD / <LOQ)	✓		✓		
10) CCV3/CCB3	✓		✓		
11) CCV4/CCB4	✓		✓		
12) CCV5/CCB5					
13) CCV6/CCB6					
Preparation Batch Parameters	**YES**	**NO**	**YES**	**NO**	
Prep Batch ID#: 35475 Dig. Meth. 3050	✓		✓		
LCS - generated limits or project specific limits	✓		✓		
MB - <LOD or ≤ ½ RL	✓		✓		
Spiked samples in batch:					
a) 87201 matrix = SO	✓		✓		
b) matrix =					
c) matrix =					
PDS: ±15% / 20% / 25% Sample#:					
Prep Batch ID#: Dig. Meth.					
LCS - generated limits or project specific limits					
MB - <LOD or ≤ ½ RL					
Spiked samples in batch:					
a) matrix =					
b) matrix =					
c) matrix =					
PDS: ±15% / 20% / 25% Sample#:					
Prep Batch ID#: Dig. Meth.					
LCS - generated limits or project specific limits					
MB - <LOD or ≤ ½ RL					
Spiked samples in batch:					
a) matrix =					
b) matrix =					
c) matrix =					
PDS: ±15% / 20% / 25% Sample#:					
Prep Batch ID#: Dig. Meth.					
LCS - generated limits or project specific limits					
MB - <LOD or ≤ ½ RL					
Spiked samples in batch:					
a) matrix =					
b) matrix =					
c) matrix =					
PDS: ±15% / 20% / 25% Sample#:					

iCAP 6000 / 6500 Data Review Checklist	Analysis Date: 12-3-10		Data File: 000Results		Date of review: 12-17-10	
Cal Std ID: M9817 LIMS # : 72201	Analyst: JH		Reviewer: CAC		Approved? Yes No	
QC Parameters: 6010 / 200.7 / OSM / Other	**YES**	**NO**	**YES**	**NO**	**Comments:**	
1) Calibration linearity: r > 0.995 / r > 0.998	✓		✓			
2) ICV: 90-110% / 95-105%	✓		✓			
3) ICB: < 3X IDL / <LOD / <LOQ	✓		✓			
4) ICSA: < ABS LOD	✓		✓			
5) ICSAB: 80-120%	✓		✓			
6) MRL: 70-130% / 80-120%	✓		✓			
7) MDL Check: >LOD			✓			
8) CCV1/CCB1 (CCV: 90-110%)	✓	✓	✓	✓	Al, Ba, Be, Ca, Co, Fe, Mn, Ni, Tl	
9) CCV2/CCB2 (CCB: < 3X IDL / <LOD / <LOQ)	✓	✓	✓	✓	Al, Ba, Ca, Co, Cr, Fe, Mg, Mn, Ni, Pb, Tl, V	
10) CCV3/CCB3	✓		✓			
11) CCV4/CCB4	✓		✓			
12) CCV5/CCB5						
13) CCV6/CCB6						
Preparation Batch Parameters	**YES**	**NO**	**YES**	**NO**		
Prep Batch ID#: 356273 Dig. Meth. 3050	✓		✓			
LCS - generated limits or project specific limits	✓		✓			
MB - <LOD or ≤ ½ RL	✓	✓	✓	✓	< ½ RL ↑ Al, Ba, Ca, Cr, Fe, Mg, Mn. > LOD X 100x	
Spiked samples in batch:						
a) 869552 matrix = SO	✓	✓	✓	✓	L fail Ag, As, Ba, Cd, Cr, Mn, Tl	
b) matrix =					↓ ↓ ↓	
c) matrix =					NA N/A NA not ≥ 5X LOQ	
PDS: ±15% / 20% / 25% Sample#: 869552			✓		Dup fail Se, Ag, Cd - N/A not ≥ 5X LOQ MSDS	
Prep Batch ID#: Dig. Meth.						
LCS - generated limits or project specific limits					MS fail all but one ⇒ flag MSDS	
MB - <LOD or ≤ ½ RL					MSD fail all	
Spiked samples in batch:						
a) matrix =					ICR PDS	
b) matrix =						
c) matrix =						
PDS: ±15% / 20% / 25% Sample#:						
Prep Batch ID#: Dig. Meth.						
LCS - generated limits or project specific limits						
MB - <LOD or ≤ ½ RL						
Spiked samples in batch:						
a) matrix =						
b) matrix =						
c) matrix =						
PDS: ±15% / 20% / 25% Sample#:						
Prep Batch ID#: Dig. Meth.						
LCS - generated limits or project specific limits						
MB - <LOD or ≤ ½ RL						
Spiked samples in batch:						
a) matrix =						
b) matrix =						
c) matrix =						
PDS: ±15% / 20% / 25% Sample#:						

iCAP 6000 / 6500 Data Review Checklist	Analysis Date: 12-3-10		Data File: NAKmetsCH5 Date of review: 12/7/10		
Cal Std ID: M9104 LIMS # : 72202	Analyst: JN		Reviewer: RJ		Approved? (Yes) No
QC Parameters: 6010 / 200.7 (QSM) Other	**YES**	**NO**	**YES**	**NO**	**Comments:**
1) Calibration linearity: (r ≥ 0.995) / r > 0.998	✓		✓		
2) ICV: (90-110%) / 95-105%	✓		✓		
3) ICB: < 3X IDL / (<LOD) / <LOQ	✓		✓		
4) ICSA: < ABS LOD	✓		✓		
5) ICSAB: 80-120%	✓		✓		
6) MRL: (70-130%) / 80-120%	✓		✓		
7) MDL Check: >LOD					
8) CCV1/CCB1 (CCV: 90-110%)	✓		✓		
9) CCV2/CCB2 (CCB: < 3X IDL / <LOD / <LOQ)	✓		✓		
10) CCV3/CCB3	✓		✓		
11) CCV4/CCB4					
12) CCV5/CCB5					
13) CCV6/CCB6					
Preparation Batch Parameters	**YES**	**NO**	**YES**	**NO**	
Prep Batch ID#: 35623 Dig. Meth: 3050	✓		✓		
LCS - generated limits or project specific limits	✓		✓		
MB - <LOD or ≤ ½ RL	✓		✓		
Spiked samples in batch:					
a) 869552 matrix = SO	✓		✓		
b) _____ matrix = _____					
c) _____ matrix = _____					
PDS: ±15% / 20% / 25% Sample#: _____					
Prep Batch ID#: _____ Dig. Meth. _____					
LCS - generated limits or project specific limits					
MB - <LOD or ≤ ½ RL					
Spiked samples in batch:					
a) _____ matrix = _____					
b) _____ matrix = _____					
c) _____ matrix = _____					
PDS: ±15% / 20% / 25% Sample#: _____					
Prep Batch ID#: _____ Dig. Meth. _____					
LCS - generated limits or project specific limits					
MB - <LOD or ≤ ½ RL					
Spiked samples in batch:					
a) _____ matrix = _____					
b) _____ matrix = _____					
c) _____ matrix = _____					
PDS: ±15% / 20% / 25% Sample#: _____					
Prep Batch ID#: _____ Dig. Meth. _____					
LCS - generated limits or project specific limits					
MB - <LOD or ≤ ½ RL					
Spiked samples in batch:					
a) _____ matrix = _____					
b) _____ matrix = _____					
c) _____ matrix = _____					
PDS: ±15% / 20% / 25% Sample#: _____					

ICAP 6000 / 6500 Data Review Checklist	Analysis Date: 12-03-10		Data File: DOD results		Date of review: 12-19-10
Cal Std ID: 119817 LIMS # : 72203	Analyst: ZY		Reviewer: GE		Approved? Yes No
QC Parameters: 6010 / 200.7 / QSM / Other	**YES**	**NO**	**YES**	**NO**	**Comments:**
1) Calibration linearity: r ≥ 0.995 / r > 0.998	✓		✓		
2) ICV: 90-110% / 95-105%	✓		✓		
3) ICB: < 3X IDL / <LOD / <LOQ	✓		✓	✓	ICB - Al, Ba, Ca, Cr, Fe, Mg - no assoc. sample results bracketed.
4) ICSA: < ABS LOD	✓		✓		
5) ICSAB: 80-120%	✓		✓		
6) MRL: 70-130% / 80-120%	✓				
7) MDL Check: >LOD	~~✓~~ 12-15-10				
8) CCV1/CCB1 (CCV: 90-110%)	✓	✓	✓	✓	CCB Al, Ba, Ca, Tl
9) CCV2/CCB2 (CCB: < 3X IDL / <LOD / <LOQ)	✓	✓	✓	✓	CCB Al, Ba, Ca, Co, Cr, Mn, Tl
10) CCV3/CCB3	✓		✓	✓	CCB Al, Ba, Ca, Co, Cr, Fe, Mg, Mn, Ni, Se, Tl
11) CCV4/CCB4	✓		✓	✓	CCB Al, Ba, Be, Ca, Co, Fe, Mg, Mn, Ni, Tl
12) CCV5/CCB5	✓				
13) CCV6/CCB6					
Preparation Batch Parameters	**YES**	**NO**	**YES**	**NO**	
Prep Batch ID#: 39024 Dig. Meth. 3050	✓		✓		< ½ RL < ½ RL
LCS - generated limits or project specific limits	✓		✓		
MB - <LOD or ≤ ½ RL	✓	✓	✓	✓	Al, Ba, Ca, Cr, Fe, Mg, Mn, V ⇒ >LOD but samples >10x
Spiked samples in batch:					
a) 870189 matrix = SO	✓	✓	✓	✓	Lab fort Ag, As, Cd, Co, Cu, Ni, Pb, Zn
b) matrix =					Dup fld N/A Ag, Se Duplicated col "Y"
c) matrix =					
PDS: ±15% / 20% / 25% Sample#: 870189	✓	✓	✓	✓	
Prep Batch ID#: Dig. Meth.					
LCS - generated limits or project specific limits					
MB - <LOD or ≤ ½ RL					
Spiked samples in batch:					
a) matrix =					
b) matrix =					
c) matrix =					
PDS: ±15% / 20% / 25% Sample#:					
Prep Batch ID#: Dig. Meth.					
LCS - generated limits or project specific limits					
MB - <LOD or ≤ ½ RL					
Spiked samples in batch:					
a) matrix =					
b) matrix =					
c) matrix =					
PDS: ±15% / 20% / 25% Sample#:					
Prep Batch ID#: Dig. Meth.					
LCS - generated limits or project specific limits					
MB - <LOD or ≤ ½ RL					
Spiked samples in batch:					
a) matrix =					
b) matrix =					
c) matrix =					
PDS: ±15% / 20% / 25% Sample#:					

iCAP 6000 / 6500 Data Review Checklist	Analysis Date: 12-3-10		Data File: NAK Beach 05		Date of review: 12/7/10
Cal Std ID: INORG4 LIMS # : 72201	Analyst:		Reviewer: RD		Approved? Yes No
QC Parameters <6010 / 200.7 / QSM / Other	**YES**	**NO**	**YES**	**NO**	**Comments:**
1) Calibration linearity: r ≥ 0.995 / r > 0.998	✓		✓		
2) ICV: 90-110% / 95-105%	✓		✓		
3) ICB: < 3X IDL / <LOD / <LOQ	✓		✓		
4) ICSA: < ABS LOD	✓		✓		
5) ICSAB: 80-120%	✓		✓		
6) MRL: 70-130% / 80-120%	✓		✓		
7) MDL Check: >LOD					
8) CCV1/CCB1 (CCV: 90-110%)	✓		✓		
9) CCV2/CCB2 (CCB: < 3X IDL / <LOD / <LOQ)	✓		✓		
10) CCV3/CCB3	✓		✓		
11) CCV4/CCB4	✓		✓		
12) CCV5/CCB5					
13) CCV6/CCB6					
Preparation Batch Parameters	**YES**	**NO**	**YES**	**NO**	
Prep Batch ID#: 35024 Dig. Meth. 3050	✓		✓		
LCS - generated limits or project specific limits	✓		✓		
MB - <LOD or ≤ ½ RL	✓		✓		
Spiked samples in batch:					
a) 870189 matrix = SO	✓		✓		
b) _____ matrix = _____					
c) _____ matrix = _____					
PDS: ±15% / 20% / 25% Sample#: _____					
Prep Batch ID#: _____ Dig. Meth. _____					
LCS - generated limits or project specific limits					
MB - <LOD or ≤ ½ RL					
Spiked samples in batch:					
a) _____ matrix = _____					
b) _____ matrix = _____					
c) _____ matrix = _____					
PDS: ±15% / 20% / 25% Sample#: _____					
Prep Batch ID#: _____ Dig. Meth. _____					
LCS - generated limits or project specific limits					
MB - <LOD or ≤ ½ RL					
Spiked samples in batch:					
a) _____ matrix = _____					
b) _____ matrix = _____					
c) _____ matrix = _____					
PDS: ±15% / 20% / 25% Sample#: _____					
Prep Batch ID#: _____ Dig. Meth. _____					
LCS - generated limits or project specific limits					
MB - <LOD or ≤ ½ RL					
Spiked samples in batch:					
a) _____ matrix = _____					
b) _____ matrix = _____					
c) _____ matrix = _____					
PDS: ±15% / 20% / 25% Sample#: _____					

GFAA / FLAA / CVAA Data Review checklist		Method: 200.9	7000 series AA	245.1	7470a / 7471a
Instrumentation:	THERMO M SERIES AA		CETAC Hg ANALYZER		
Analysis Date: 11-24-10 (11-30-10 Cal)	Data File: 10112400	Date Review: 11-30-10	Analyte: Hg		
Cal Std ID: M0915	LIMS #: 72018	Analyst: GE	Reviewer:	Approved? Yes	No

Calibration Parameters -	YES	NO	YES	NO	Comments:
1) Calibration linearity - r > 0.995	✓		—		
2) ICV: 90-110% 95-105%	✓		—		
3) ICB: <IDL / <LOD / <LOQ / <½ RL	✓		—		
6) MRL: 70-130%					
7) CCV1/CCB1- (CCV: 90-110% / 80-120%)	✓		—		
8) CCV2/CCB2 (CCB: <IDL / <LOD / <LOQ / <½ RL)	✓		—		
9) CCV3/CCB3	✓		—		
10) CCV4/CCB4					
11) CCV5/CCB5					
12) CCV6/CCB6					

Preparation Batch Parameters	YES	NO	YES	NO	Comments:
Prep Batch ID#: 26531 Dig. Meth. 7471a	✓		—		
LCS - generated limits or project specific limits	✓		—		
MB - <LOD / <2.2X LOD / ≤ ½RL	✓		—		
Spiked samples in batch:					
a) 870201 matrix = SO		✓	—		L failed, MS failed, PDS failed - 'M' flagged sample
b) matrix =					
c) matrix =					
d) matrix =					
e) matrix =					
PDS: ±15% / 20% / 25% Sample# 870201		✓	✓		
MSA Performed? Yes No					
Prep Batch ID#: Dig. Meth.					
LCS - generated limits or project specific limits					
MB - <LOD / <2.2X LOD / ≤ ½RL					
Spiked samples in batch:					
a) matrix =					
b) matrix =					
c) matrix =					
d) matrix =					
e) matrix =					
PDS: ±15% / 20% / 25% Sample#					
MSA Performed? Yes No					
Prep Batch ID#: Dig. Meth.					
LCS - generated limits or project specific limits					
MB - <LOD / <2.2X LOD / ≤ ½RL					
Spiked samples in batch:					
a) matrix =					
b) matrix =					
c) matrix =					
d) matrix =					
e) matrix =					
PDS: ±15% / 20% / 25% Sample#					
MSA Performed? Yes No					

GFAA / FLAA / CVAA Data Review checklist		Method:	200.9	7000 series AA	245.1	7470a (7471a)
Instrumentation:	THERMO M SERIES AA				GETAC Hg ANALYZER	
Analysis Date: 12-08-10	Data File: 10120802		Date Review: 12/10/10		Analyte: Hg	
Cal Std ID: M99607	LIMS # : 72326	Analyst: GvE	Reviewer: DJ	Approved?	(Yes)	No

Calibration Parameters -	YES	NO	YES	NO	Comments:
1) Calibration linearity - r > 0.995	✓		✓		
2) ICV: (90-110%) 95-105%	✓		✓		
3) ICB: <~~IDL~~ / (LOD) / <LOQ / <½ RL	✓		✓		
6) MRL: 70-130%					
7) CCV1/CCB1- (CCV: 90-110% / (80-120%))	✓		✓		
8) CCV2/CCB2 (CCB: <IDL / (<LOD) / <LOQ / <½ RL)	✓		✓		
9) CCV3/CCB3					
10) CCV4/CCB4					
11) CCV5/CCB5					
12) CCV6/CCB6					

Preparation Batch Parameters	YES	NO	YES	NO	Comments:
Prep Batch ID#: 362820 Dig. Meth. 7471a	✓		✓		
LCS - generated limits or project specific limits	✓		✓		
MB - <LOD / <2.2X LOD / (≤ ½RL)	✓		✓		
Spiked samples in batch:					
a) 669552 matrix = SO	✓	✓	✓	-	DUP failed - N/A - <5x LOQ - MS/MSD RPD failed - (Y) MSDS failed low - PDSS ok
b)_____ matrix = _____					
c)_____ matrix = _____					
d)_____ matrix = _____					
e)_____ matrix = _____					
PDS: ±15% (20%) / 25% Sample# 669552	✓		✓		
MSA Performed? Yes No					
Prep Batch ID#:_____ Dig. Meth._____					
LCS - generated limits or project specific limits					
MB - <LOD / <2.2X LOD / ≤ ½RL					
Spiked samples in batch:					
a)_____ matrix = _____					
b)_____ matrix = _____					
c)_____ matrix = _____					
d)_____ matrix = _____					
e)_____ matrix = _____					
PDS: ±15% / 20% / 25% Sample#_____					
MSA Performed? Yes No					
Prep Batch ID#:_____ Dig. Meth._____					
LCS - generated limits or project specific limits					
MB - <LOD / <2.2X LOD / ≤ ½RL					
Spiked samples in batch:					
a)_____ matrix = _____					
b)_____ matrix = _____					
c)_____ matrix = _____					
d)_____ matrix = _____					
e)_____ matrix = _____					
PDS: ±15% / 20% / 25% Sample#_____					
MSA Performed? Yes No					

GFAA / FLAA / CVAA Data Review checklist		Method: 200.9	7000 series AA	245.1	7470a / 7471a
Instrumentation:	THERMO M SERIES AA			CETAC Hg ANALYZER	
Analysis Date: 12-08-10	Data File: 10120802		Date Review: 12/10/10	Analyte: Hg	
Cal Std ID: M9962	LIMS # : 77327	Analyst: GM	Reviewer: TS	Approved? Yes	No

Calibration Parameters -	YES	NO	YES	NO	Comments:
1) Calibration linearity - r > 0.995	✓		✓		
2) ICV: 90-110% 95-105%	✓		✓		
3) ICB: <IDL / <LOD / <LOQ / <½ RL	✓		✓		
6) MRL: 70-130%					
7) CCV1/CCB1- (CCV: 90-110% 80-120%)	✓		✓		
8) CCV2/CCB2 (CCB: <IDL / <LOD / <LOQ / <½ RL)	✓		✓		
9) CCV3/CCB3	✓		✓		
10) CCV4/CCB4	✓		✓		
11) CCV5/CCB5					
12) CCV6/CCB6					

Preparation Batch Parameters	YES	NO	YES	NO	Comments:
Prep Batch ID#: 35687 Dig. Meth. 7471a	✓		✓		
LCS - generated limits or project specific limits	✓		✓		
MB - <LOD / <2.2X LOD / ≤ ½RL	✓		✓		
Spiked samples in batch:					
a) 870189 matrix = SO	✓	✓	✓	✓	MS2, MSD5 failed low - PDS5 OK
b)_____ matrix = _____					
c)_____ matrix = _____					
d)_____ matrix = _____					
e)_____ matrix = _____					
PDS: ±15% / 20% / 25% Sample# 870189	✓		✓		
MSA Performed? Yes No					
Prep Batch ID#:_____ Dig. Meth._____					
LCS - generated limits or project specific limits					
MB - <LOD / <2.2X LOD / ≤ ½RL					
Spiked samples in batch:					
a)_____ matrix = _____					
b)_____ matrix = _____					
c)_____ matrix = _____					
d)_____ matrix = _____					
e)_____ matrix = _____					
PDS: ±15% / 20% / 25% Sample#_____					
MSA Performed? Yes No					
Prep Batch ID#:_____ Dig. Meth._____					
LCS - generated limits or project specific limits					
MB - <LOD / <2.2X LOD / ≤ ½RL					
Spiked samples in batch:					
a)_____ matrix = _____					
b)_____ matrix = _____					
c)_____ matrix = _____					
d)_____ matrix = _____					
e)_____ matrix = _____					
PDS: ±15% / 20% / 25% Sample#_____					
MSA Performed? Yes No					

CT Laboratories Instrument Run Log

Instrument ID: ICP 6000

Date	Time Start/End	Analyst	Method	LIMS# or Sample #	Sequence I.D.	Nebulizer Pressure	Cal Std ID	~~Wavelength~~ Check	Comments
11-6-10	1039/1011		DOD results	71407,68 71541 71554 71552 71544 71866 70324 2071550	D110610	350	m9817	190047	V1226
11-7-10	1032/0249		DOD results	71548, 71557 71547 71447 71457	D110710	360	m9817	190047	V1229, V1230, V1231
11-8-10	1448/2446		DOD results	71597 71546	D110710	250	m9817	190047	V1233
11-9-10	1347/0704		DOD Results	71547, 71544, 71554 71546 71550, 71552 71546	D110910A	250	m9817	189241	V 1243 V1244
11-10-10	1247/0034		DOD results	71557 70923 71541	D111010	250	m9817	189241	~~V1246~~ V1247
11-11-10	1041/13516		DOD Cal Results	71677 71554	D111110	390	m9817	189241	V1255, 1256
11-12-10	0857/2155		DOD cal	71677, 71713	D111210	340	m9817	189241	V 1249 1250 V1254
11-13-10	1138/22100		DOD cal	71559 71546 71713 71737	D111310	340	m9817	189241	V1260, 1263
11-15-10	1336 1807		DOD Cal	71766 71766	D111510	300	m9817	189241	V1269
11-16-10	1428/2049		DOD Cal	70922 71745 71763 71766	D111610	300	m9817	189241	V1270 V1272, V1273
11-18-10	1312/1745		DOD Cal	71763, 71745, 71854 71717, 71713	D111810	300	m9817	189241	V1274 V1277 AS 11-19-10
11-19-10	0901/0359		DOD Cal	71822 71824 71518 71820 71820 71907	D111910	300	m9817	189241	V1276, V1278
11-22-10	0951/1532		DOD Cal	71913 71910 71912 71911 71953, 71941, 71942	D112210	260	m9817	189241	V1279
11-23-10	1340/1706		DOD Cal	71890 71968 71907	D112310	210	m9817	189241	V1280, V1281
11-29-10	1338/0255		DOD cal	72013 7142 71913 71822 72041 72046 71940	D112910	210	m9817	189241	V1282
11-30-10	1413/0204		DOD cal	72105 72091 72087 72106 72095 72087	D113010	220	m9817	189241	V1284
12-1-10	1341/2207		DOD Cal	71968, 71907 72130 72124 72129 72203	D120110	210	m9817	189241	V1284
12-3-10	1234/0824		DOD cal	71910 72208 72205 72241 72229, 72254	D120310	210	m9817	189241	V1290
12-07-10	1419/0758		DOD cal	72257 72155 72224 72250 72130 72113	D120910	210	m9817	189241	V1294, V1295
12-8-10	1033/0907		DOD Cal	72091 72216 72337 72334 72333 72376 72201	D120810	210	m9817	189241	V1301
12-09-10	1408/0431		DOD Cal	72203 72205 72040 72025 72138 72393 72370 72154 72340 72084 72395 72130	D120910	210	m9817	189241	V1308
12-11-10	0934/12:12-10 1230		DOD cal	72091	D121110	310	m9817	189241	V1304, V1306
12-13-10	1334/1608		DOD Cal	7224 72258	D121310	310	m9817	189041	V1305
12-14-10	1224/1720		DOD Cal	72496 72496 72504 72340	D121410	310	m9817	189041	V1315
12-15-10	1023/0037		DOD Cal	72253, 72243, 72091	D121510	310	m9817	189041	V1319, V1324
11-10	1400/2151		DOD Cal		D121610	310	m9817	189041	V1323, V1326

AS Add Se 200.8

CT Laboratories Instrument Run Log

Instrument ID: ICP 6500

Date	Time Start/End	Analyst	Analytes	LIMS run or Samples Analyzed	Sequence ID	Cal Std ID	Neb Pressure	Comments
10-5-10	1044/1306		Na, K	70678, 70643	N100510	M9285	300	V98
10-5-10	1309/1458		Sn	70577, 70437, 35, 08, 10	N100510	M9632	300	V78
10-11-10	1425/2221		Na, K	70840, 70803, 70838, 70484, 70230, 70841, 70735, 70849	N101110	M9285	320	V99
10-12-10	1053/1214		Na K	70849, 70735, 70230, 70841	N101110	M9285	320	V100
10-12-10	1217/1553		Si	70850, 70733	N101110	M9867	320	V104
10-13-10	0733/0916		Si	70850	N101110	M9867	320	V105
10-15-10	1042/1528		Na, K	71003, 70954, 70919, 70923, 70921	N101510	M9285	370	V101
10-18-10	1432/1658		K, Na	70849, 70735, 71027	N101810	M9285	370	V102
10-21-10	0820/1636		K, Na, Li	71121, 71119, 71159, 71157	N102110	M9632, M9285	370	V103, V80, V79, V104
10-22-10	0741/0902		Na, K	71121, 71119	N102110	M9285	370	V105
10-28-10	1745/2003	GE	Na, K	71196, 71209	N102810	M9285	320	V105
10-29-10	1059/1515	GE	Na, K	71196, 71209	N102810	M9285	320	V106, 107
11/1/10	1433/1622		Li, Sn, Sr, Ti	71405	Li110110	M9632	320	V81
11/2/10	1323/1448		Li, Sn	71211	Li110210	M9632	320	V82
11-2-10	1453/1630		Bo, Si	71406	B110210	M9867	320	V106
11-9-10	1445/2311		Na K	71542, 7155, 71559, 71553, 71545, 71539, 71549, 71469, 71540, 71464	N110910	M9904	310	V109 11-2-10
11-10-10	1438/0428		Li, Sn, Si, Ti	71170, 71168, 71411, 71194	Li111010	M9633	310	V84
11-11-10	0433/0720		Bor & Si Nak	71478, 71560, 71664, 71543	B111010	M9867	310	V107, V110, 110
11-11-10	1031/1330		Nak, B	71555	N111110	M9904	310	V110, V108
11-16-10	1346/0337		Nak, Sn	71767, 71715, 71663, 71168, 71663, 71651, 71764, 71746, 71170, 71463	N111610	M9904, M9632	310	V112, V85
11-18-10	1431/1821		Nak	71819, 71821, 71823, 71821, 71891, 71819, 71823, 71821	N111710	M9904	310	V113
11-19-10	1339/1457		Boron	71765, 71714	N111810	M9904	310	V113
11-22-10	0705/1023		Nak	71667, 71908, 71914, 71911	B111910	M9867	310	V112
11-22-10	1026/1245		Li, Sn	71943, 71663	N111910	M9904	310	V114
11-29-10	1433/1817		Nak, Li	71943, 71908, 72012, 72014	N112910	M9632, M9904	310	V89
12-3-10	1354/1855		Na, K	72207, 72128, 72127, 72204, 72202,	N120310	M9904	310	V115, V90, V116

MERCURY ANALYZER INSTRUMENT RUN LOG						
date analyzed	time start/end	analyst	Samples analyzed	worksheet(method) File Id	Cal Std Id	Comments
10/27/10	0911/0952	GLE	71300	10102700	M9885	LC: 10.2 Tube Lot No. 186786
10/27/10	1011/1209	GLE	71301, 71302, 71303	10102702	M9885	LC: 10.2 Tube Lot No. 186786
11/03/10	0835/1242	GLE	71470, 71471, 71472, 71473, 71474, 71475	10110300	M9896	LC: 10.2 Tube Lot No. 190047
11/03/10	1250/1456	GLE	71498, 71499, 71500	10110301	M9896	LC: 10.2 Tube Lot No. 190047
11/10/10	0833/0916	GLE	71645	10111000	M9907	LC: 10.2 Tube Lot No. 190047
11/10/10	0924/1108	GLE	71646, 71648	10111001	M9907	LC: 10.4 Tube Lot No. 190047
11/17/10	0912/1053	GLE	71832, 71833	10111700	M9916	LC: 10.2 Tube Lot No. 190047
11/17/10	1102/1244	GLE	71831, 71830 71837	10111701	M9916	LC: 10.2 Tube Lot No. 190047
11/24/10	0817/1404	GLE	72018, 72019, 72020, 72021	10112400, 01, 02	M9935	LC: 10.4 Tube Lot No. 190047
11/24/10	1417/1551	GLE	72024, 72023, 72022	10112403	M9935	LC: 10.4 Tube Lot No. 190047
11/30/10	0842/1058	GLE	72082, 72083	10113000	M9945	LC: 10.4 Tube Lot No. 190047
12/08/10	0855/1151	GLE	72325, 72330, 72343, 72331, 72332	10120800	M9962	LC: 10.4 Tube Lot No. 190047
12/08/10	1258/1640	GLE	72326, 72327, 72328, 72329, 72333	10120802	M9962	LC: 10.4 Tube Lot No. 190047
12/21/10	0916/1117	AMA	72614, 72620, 72621, 72622, 72623	10122100	M9989	LC: 10.4 Tube Lot No. 190047
12/21/10	1139/1526	AMA	72612, 72613, 72615, 72617, 72618, 72619	10122101	M9989	LC: 10.4 Tube Lot No. 190047

Type	Date/Time	Message	User name	Application	Sequence Name
	11/19/2010 02:16:39	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 02:22:06	Plasma extinguished successfully	NAH	Analyst	
	11/19/2010 02:22:07	Plasma off	NAH	iTEVA Control Center	
	11/19/2010 02:22:08	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 06:52:04	Plasma On	NAH	iTEVA Control Center	
	11/19/2010 06:52:07	Plasma ignition successful	NAH	Analyst	
	11/19/2010 06:52:55	D33534 - Debug:Wavelength check : x = 1.710, y =1.677	NAH	Analyst	
	11/19/2010 07:10:26	Plasma off	NAH	iTEVA Control Center	
	11/19/2010 07:10:26	Plasma extinguished successfully	NAH	Analyst	
	11/19/2010 07:13:28	Plasma On	NAH	iTEVA Control Center	
	11/19/2010 07:13:32	Plasma ignition successful	NAH	Analyst	
	11/19/2010 07:14:18	D33534 - Debug:Wavelength check : x = 1.710, y =1.544	NAH	Analyst	
	11/19/2010 09:00:36	Autosampler Run Started	NAH	Analyst	
	11/19/2010 09:00:36	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 09:01:20	D33534 - Debug:Wavelength check : x = 1.710, y =1.498	NAH	Analyst	
	11/19/2010 09:01:43	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 09:07:09	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 09:12:38	Running CalibStd=0.5 (3)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 09:18:06	Running CalibStd=1 (4)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 09:23:35	Running CalibStd=5 (5)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 09:29:05	Running CalibStd=10 (6)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 09:34:34	Running CalibStd=20 (7)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 09:40:03	Running CalibStd=50 (8)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 09:45:28	Running CalibStd=100 (9)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 09:50:51	Running CalibStd=1000 (10)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 09:55:54	Running CalibStd=10000 (11)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 10:01:42	Running CalibStd-100k (12)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 10:07:33	Running CalibStd=100000 (13)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 10:13:20	Running CalibStd=500000 (14)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 10:19:21	Running CalibStd-1000k (15)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 10:25:34	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 10:31:00	Running icv (16)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 10:36:35	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 10:42:03	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 10:47:33	Running MRL (23)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 10:52:57	Running icsa (20)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 10:59:00	Running icsab (21)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 11:04:47	Running 869560 (41)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 11:10:33	Running 869561 (42)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 11:16:22	Running 869562 (43)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 11:22:13	Running 871026 (44)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 11:28:05	Running l871026 (45)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 11:33:30	Running dup871026 (46)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 11:39:20	Running mss871026 (47)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 11:44:59	Running msds871026 (48)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 11:50:38	Running pdss871026 (49)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 11:56:14	Running 871039 (50)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 12:01:42	Running ccv1 (24)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 12:07:00	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 12:12:12	Running cal blk (25)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 12:17:41	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	11/19/2010 12:23:11	Running 871046 (51)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 12:29:01	Running 871047 (52)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 12:34:46	Running 871050 (53)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 12:40:42	Running 871052 (54)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 12:46:32	Running 871053 (55)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 12:52:29	Running 871054 (56)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 12:58:26	Running 871055 (57)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 13:04:14	Running 871056 (58)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 13:10:11	Running lcsw35450 (59)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 13:15:54	Running mbw35450 (60)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 13:21:32	Running ccv1 (24)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 13:26:48	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 13:31:49	The standard CalibStd=20 will be permanently removed from the stand	NAH	Analyst	
	11/19/2010 13:32:01	Running cal blk (25)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 13:36:48	The standard CalibStd=5 will be permanently removed from the standar	NAH	Analyst	
	11/19/2010 13:37:31	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 13:39:49	The standard CalibStd=10 will be permanently removed from the stand	NAH	Analyst	
	11/19/2010 13:43:59	Running 870994 (61)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 13:49:38	Running 871058 (62)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 13:55:26	Running l871058 (63)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 14:00:57	Running dup871058 (64)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 14:03:36	Closing will close the method and all associated samples.	NAH	Analyst	
	11/19/2010 14:06:27	Running msw871058 (65)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 14:12:09	Running msdw871058 (66)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 14:17:52	Running pdsw871058 (67)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 14:23:37	Running lcsw35451 (68)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 14:29:20	Running mbw35451 (69)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 14:34:50	Running 872315 (70)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 14:40:20	Running ccv1 (24)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 14:45:39	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 14:50:50	Running cal blk (25)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 14:53:22	Closing will close the method and all associated samples.	NAH	Analyst	
	11/19/2010 14:54:40	Closing will close the method and all associated samples.	NAH	Analyst	
	11/19/2010 14:56:21	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 15:01:48	Running l872315 (71)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 15:07:19	Running dup872315 (72)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 15:12:50	Running msw872315 (73)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 15:18:33	Running msdw872315 (74)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 15:24:17	Running pdsw872315 (75)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 15:30:01	Running lcsw35452 (76)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 15:35:44	Running mbw35452 (77)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 15:41:14	Running 870564 (78)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 15:47:15	Running mss870564 (79)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 15:52:58	Running msds870564 (80)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 15:58:38	Running ccv1 (24)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 16:03:55	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 16:09:06	Running cal blk (25)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 16:14:37	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 16:20:04	Running 872113 (81)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 16:25:55	Running 872447 (82)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 16:31:44	Running lcss35485 (1)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	11/19/2010 16:36:51	Running mbs35485 (2)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 16:42:19	Running 872594 (3)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 16:47:55	Running l872594 (4)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 16:53:42	Running dup872594 (5)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 16:59:17	Running mss872594 (6)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 17:04:46	Running msds872594 (7)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 17:10:16	Running pdss872594 (8)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 17:15:47	Running ccv1 (24)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 17:21:03	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 17:26:14	Running cal blk (25)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 17:31:44	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 17:37:10	Running 872596 (9)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 17:42:59	Running 872597 (10)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 17:48:42	Running 872598 (11)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 17:54:24	Running 872599 (12)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 18:00:11	Running 872600 (13)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 18:05:45	Running 872601 (14)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 18:11:23	Running 872602 (15)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 18:16:57	Running 872603 (16)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 18:22:36	Running 872604 (17)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 18:28:14	Running 872610 (18)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 18:33:53	Running ccv1 (24)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 18:39:10	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 18:44:21	Running cal blk (25)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 18:49:51	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 18:55:17	Running 872611 (19)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 19:01:07	Running 872612 (20)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 19:06:45	Running 872613 (21)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 19:12:23	Running 872614 (22)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 19:18:12	Running 872615 (23)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 19:23:48	Running 872616 (24)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 19:29:26	Running 872617 (25)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 19:34:58	Running 872618 (26)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 19:40:40	Running 872619 (27)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 19:46:20	Running lcss35475 (28)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 19:52:03	Running ccv1 (24)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 19:57:18	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 20:02:29	Running cal blk (25)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 20:07:58	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 20:13:25	Running mbs35475 (29)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 20:18:54	Running 870200 (30)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 20:24:38	Running 870201 (31)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 20:30:25	Running l870201 (32)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 20:36:07	Running dup870201 (33)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 20:41:54	Running mss870201 (34)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 20:47:31	Running msds870201 (35)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 20:53:18	Running pdss870201 (36)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 20:59:06	Running 870202 (37)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 21:04:44	Running 870203 (38)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 21:10:33	Running ccv1 (24)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 21:15:50	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	11/19/2010 21:21:01	Running cal blk (25)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 21:26:30	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 21:31:58	Running 870204 (39)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 21:37:39	Running 870207 (40)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 21:43:19	Running 871184 (83)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 21:49:09	Running 871186 (84)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 21:54:54	Running 871187 (85)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 22:00:45	Running 871188 (86)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 22:07:09	Running 871189 (87)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 22:13:02	Running 871190 (88)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 22:18:51	Running 871191 (89)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 22:25:01	Running 871192 (90)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 22:30:52	Running ccv1 (24)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 22:36:08	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 22:41:19	Running cal blk (25)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 22:46:49	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 22:52:16	Running 871193 (91)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 22:58:07	Running 871194 (92)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 23:03:51	Running 871195 (93)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 23:09:27	Running 871196 (94)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 23:15:11	Running 871197 (95)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 23:20:56	Running 871198 (96)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 23:26:53	Running lcss35484 (97)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 23:32:37	Running mbs35484 (98)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 23:38:08	Running 872313 (99)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 23:43:55	Running l872313 (100)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 23:49:46	Running ccv1 (29)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 23:55:03	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 00:00:16	Running cal blk (28)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 00:05:48	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 00:11:20	Running dup872313 (101)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 00:17:04	Running mss872313 (102)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 00:22:44	Running msds872313 (103)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 00:28:23	Running pdss872313 (104)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 00:33:57	Running 872314 (105)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 00:39:46	Running lcss35471 (106)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 00:44:52	Running mbs35471 (107)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 00:50:23	Running 869616 (108)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 00:56:12	Running mss869616 (109)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 01:01:46	Running msds869616 (110)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 01:07:28	Running ccv1 (29)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 01:12:46	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 01:17:59	Running cal blk (28)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 01:23:30	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 01:29:01	Running 871051 (111)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 01:34:50	Running 871242 (112)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 01:40:33	Running mss871242 (113)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 01:46:07	Running msds871242 (114)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 01:51:37	Running 871269 (115)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 01:57:24	Running 871270 (116)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 02:03:14	Running 871271 (117)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	11/20/2010 02:09:04	Running 872831 (118)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 02:14:53	Running lcsw35479 (119)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 02:20:37	Running mbw35479 (120)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 02:26:08	Running ccv1 (29)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 02:31:21	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 02:36:34	Running cal blk (28)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 02:42:04	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 02:47:37	Running 873014 (121)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 02:53:37	Running msw873014 (122)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 02:59:16	Running msdw873014 (123)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 03:04:55	Running lcsw35480 (124)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 03:10:04	Running mbw35480 (125)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 03:15:36	Running 872553 (126)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 03:21:21	Running msw872553 (127)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 03:26:45	Running msdw872553 (128)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 03:32:10	Running 871039 (129)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 03:37:59	Running MRL (23)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 03:43:25	Running ccv1 (29)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 03:48:42	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 03:53:53	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 03:59:20	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 04:04:48	Plasma off	NAH	iTEVA Control Center	
	11/20/2010 04:04:49	Plasma extinguished successfully	NAH	Analyst	
	11/20/2010 04:04:51	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 08:39:32	Plasma On	NAH	iTEVA Control Center	
	11/22/2010 08:39:36	Plasma ignition successful	NAH	Analyst	
	11/22/2010 08:40:23	D33534 - Debug:Wavelength check : x = 1.795, y =1.627	NAH	Analyst	
	11/22/2010 09:36:06	iTEVA loaded	NAH	iTEVA Control Center	
	11/22/2010 09:36:24	Connected to instrument 20070314	NAH	iTEVA Control Center	
	11/22/2010 09:37:01	Plasma On	NAH	iTEVA Control Center	
	11/22/2010 09:50:08	Autosampler Run Started	NAH	Analyst	
	11/22/2010 09:50:08	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 09:50:52	D33534 - Debug:Wavelength check : x = 1.710, y =1.551	NAH	Analyst	
	11/22/2010 09:51:14	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 09:56:55	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 10:02:35	Running CalibStd=0.5 (3)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 10:08:04	Running CalibStd=1 (4)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 10:13:34	Running CalibStd=5 (5)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 10:19:04	Running CalibStd=10 (6)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 10:24:34	Running CalibStd=20 (7)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 10:30:03	Running CalibStd=50 (8)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 10:35:48	Running CalibStd=100 (9)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 10:41:15	Running CalibStd=1000 (10)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 10:46:33	Running CalibStd=10000 (11)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 10:52:18	Running CalibStd-100k (12)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 10:58:11	Running CalibStd=100000 (13)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 11:03:58	Running CalibStd=500000 (14)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 11:09:59	Running CalibStd-1000k (15)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 11:16:17	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 11:21:43	Running icv (16)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 11:27:27	Running icb (17)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	11/22/2010 11:32:57	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 11:38:27	Running MRL (23)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 11:43:52	Running icsa (20)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 11:49:54	Running icsab (21)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 11:55:38	Running lcsw35514 (1)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 12:01:20	Running mbw35514 (2)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 12:06:48	Running 873345 (3)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 12:12:26	Running l873345 (4)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 12:18:08	Running dup873345 (5)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 12:23:45	Running msw873345 (6)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 12:29:23	Running msdw873348 (7)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 12:35:02	Running pdsw873345 (8)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 12:40:40	Running lcsw35497 (9)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 12:45:53	Running mbw35497 (10)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 12:51:22	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 12:56:52	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 13:02:03	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 13:07:19	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 13:12:51	Running tclp vessel blank1 (11)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 13:18:21	Running 869439 (12)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 13:23:56	Running msw869439 (13)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 13:29:23	Running 873750 (14)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 13:35:20	Running msw873750 (15)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 13:41:03	Running msdw873750 (16)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 13:46:43	Running 873757 (17)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 13:52:34	Running 873758 (18)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 13:58:20	Running 873759 (19)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 14:04:12	Running 873760 (20)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 14:09:55	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 14:15:12	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 14:20:23	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 14:25:52	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 14:31:23	Running 873761 (21)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 14:37:10	Running 873762 (22)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 14:43:00	Running 873763 (23)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 14:48:51	Running 873846 (24)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 14:54:37	Running msw873846 (25)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 15:00:08	Running msdw873846 (26)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 15:05:40	Running 873848 (27)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 15:11:25	Running MRL (23)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 15:16:50	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 15:22:06	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 15:27:16	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 15:32:43	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 15:38:12	Plasma extinguished successfully	NAH	Analyst	
	11/22/2010 15:38:13	Plasma off	NAH	iTEVA Control Center	
	11/22/2010 15:38:14	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 08:16:27	Plasma On	NAH	iTEVA Control Center	
	11/23/2010 08:16:30	Plasma ignition successful	NAH	Analyst	
	11/23/2010 08:17:17	D33534 - Debug:Wavelength check : x = 1.689, y =1.600	NAH	Analyst	
	11/23/2010 10:17:27	Autosampler Run Started	NAH	Analyst	

Type	Date/Time	Message	User name	Application	Sequence Name
	11/23/2010 10:17:27	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 10:18:12	D33534 - Debug:Wavelength check : x = 1.655, y =1.545	NAH	Analyst	
	11/23/2010 10:18:35	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 10:24:02	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 10:29:32	Running CalibStd=0.5 (3)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 10:35:02	Running CalibStd=1 (4)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 10:40:32	Running CalibStd=5 (5)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 10:46:03	Running CalibStd=10 (6)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 10:51:33	Running CalibStd=20 (7)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 10:57:03	Running CalibStd=50 (8)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 11:02:30	Running CalibStd=100 (9)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 11:07:53	Running CalibStd=1000 (10)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 11:12:59	Running CalibStd=10000 (11)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 11:18:38	Running CalibStd-100k (12)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 11:24:32	Running CalibStd=100000 (13)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 11:30:19	Running CalibStd=500000 (14)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 11:36:24	Running CalibStd-1000k (15)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 11:42:38	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 11:48:07	Running icv (16)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 11:53:33	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 11:59:02	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 12:04:32	Running MRL (23)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 12:07:26	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 13:03:12	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 13:03:12	Autosampler Run Started	NAH	Analyst	
	11/23/2010 13:03:57	D33534 - Debug:Wavelength check : x = 1.710, y =1.453	NAH	Analyst	
	11/23/2010 13:04:20	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 13:09:47	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 13:15:18	Running CalibStd=0.5 (3)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 13:20:48	Running CalibStd=1 (4)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 13:26:18	Running CalibStd=5 (5)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 13:31:49	Running CalibStd=10 (6)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 13:37:20	Running CalibStd=20 (7)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 13:42:22	Closing will close the method and all associated samples.	NAH	Analyst	
	11/23/2010 13:42:27	Closing will close the method and all associated samples.	NAH	Analyst	
	11/23/2010 13:42:49	Running CalibStd=50 (8)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 13:48:16	Running CalibStd=100 (9)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 13:53:38	Running CalibStd=1000 (10)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 13:58:44	Running CalibStd=10000 (11)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 14:04:26	Running CalibStd-100k (12)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 14:10:18	Running CalibStd=100000 (13)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 14:16:05	Running CalibStd=500000 (14)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 14:22:10	Running CalibStd-1000k (15)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 14:28:26	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 14:33:54	Running icv (16)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 14:39:20	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 14:44:49	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 14:50:18	Running MRL (23)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 14:55:44	Running icsa (20)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 15:01:51	Running icsab (21)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 15:07:40	Running lcss35471 (1)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	11/23/2010 15:13:18	Running pdss871242 (2)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 15:18:47	Running pdss873014 (3)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 15:24:20	Running 869616 (4)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 15:30:07	Running mss869616 (5)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 15:35:39	Running msds869616 (6)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 15:41:38	Running 871242 (7)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 15:47:22	Running 871269 (8)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 15:53:07	Running 871270 (9)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 15:58:57	Running 871271 (10)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 16:04:46	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 16:10:03	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 16:15:14	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 16:20:44	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 16:26:17	Running 872831 (11)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 16:32:05	Running 873014 (12)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 16:38:04	Running lcss35468 (13)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 16:43:46	Running MRL (23)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 16:49:11	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 16:54:28	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 16:59:39	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 17:05:06	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 17:10:35	Plasma extinguished successfully	NAH	Analyst	
	11/23/2010 17:10:35	Plasma off	NAH	iTEVA Control Center	
	11/23/2010 17:10:37	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	11/24/2010 07:35:10	Plasma On	NAH	iTEVA Control Center	
	11/24/2010 07:35:15	Plasma ignition successful	NAH	Analyst	
	11/24/2010 07:36:02	D33534 - Debug:Wavelength check : x = 1.700, y =1.615	NAH	Analyst	
	11/24/2010 11:34:49	Plasma extinguished successfully	NAH	Analyst	
	11/24/2010 11:34:50	Plasma off	NAH	iTEVA Control Center	
	11/29/2010 07:21:29	Plasma On	NAH	iTEVA Control Center	
	11/29/2010 07:21:33	Plasma ignition successful	NAH	Analyst	
	11/29/2010 07:22:20	D33534 - Debug:Wavelength check : x = 1.718, y =1.601	NAH	Analyst	
	11/29/2010 13:37:53	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 13:37:53	Autosampler Run Started	NAH	Analyst	
	11/29/2010 13:38:37	D33534 - Debug:Wavelength check : x = 1.710, y =1.531	NAH	Analyst	
	11/29/2010 13:38:59	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 13:44:28	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 13:49:58	Running CalibStd=0.5 (3)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 13:55:28	Running CalibStd=1 (4)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 14:00:58	Running CalibStd=5 (5)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 14:06:28	Running CalibStd=10 (6)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 14:11:58	Running CalibStd=20 (7)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 14:17:27	Running CalibStd=50 (8)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 14:22:53	Running CalibStd=100 (9)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 14:28:15	Running CalibStd=1000 (10)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 14:33:18	Running CalibStd=10000 (11)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 14:39:00	Running CalibStd-100k (12)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 14:44:53	Running CalibStd=100000 (13)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 14:50:40	Running CalibStd=500000 (14)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 14:56:43	Running CalibStd-1000k (15)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 15:02:58	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	11/29/2010 15:08:27	Running icv (16)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 15:14:02	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 15:19:31	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 15:25:02	Running MRL (23)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 15:30:27	Running icsa (20)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 15:36:29	Running icsab (21)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 15:42:13	Running 871039 (1)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 15:47:54	Running lcss35475 (2)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 15:53:35	Running mbs35475 (3)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 15:59:05	Running 870200 (4)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 16:04:39	Running 870201 (5)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 16:10:24	Running l870201 (6)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 16:16:00	Running dup870201 (7)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 16:21:46	Running mss870201 (8)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 16:27:22	Running msds870201 (9)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 16:32:59	Running pdss870201 (10)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 16:39:01	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 16:44:18	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 16:49:29	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 16:55:00	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 17:00:32	Running 870202 (11)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 17:06:18	Running 870203 (12)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 17:12:04	Running 870204 (13)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 17:17:50	Running 870207 (14)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 17:23:35	Running 871184 (15)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 17:29:22	Running 871186 (16)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 17:35:07	Running 871187 (17)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 17:40:54	Running 871188 (18)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 17:46:46	Running 871189 (19)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 17:52:33	Running 871190 (20)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 17:58:17	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 18:03:34	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 18:08:46	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 18:14:17	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 18:19:48	Running 871191 (21)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 18:25:44	Running 871192 (22)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 18:31:32	Running 871193 (23)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 18:37:22	Running 871194 (24)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 18:42:52	Running 871195 (25)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 18:48:23	Running 871196 (26)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 18:54:01	Running 871197 (27)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 18:59:48	Running 871198 (28)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 19:05:32	Running lcss35484 (29)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 19:11:14	Running mbs35484 (30)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 19:16:44	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 19:22:00	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 19:27:12	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 19:32:42	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 19:38:13	Running 872313 (31)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 19:43:59	Running l872313 (32)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 19:49:43	Running dup872313 (33)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	11/29/2010 19:55:30	Running mss872313 (34)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 20:01:13	Running msds872313 (35)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 20:06:56	Running pdss872313 (36)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 20:12:33	Running 872314 (37)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 20:18:21	Running lcsw35497 (38)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 20:24:02	Running mbw35497 (39)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 20:29:32	Running 869439 (40)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 20:35:08	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 20:40:26	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 20:45:37	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 20:51:07	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 20:56:38	Running pdsw869439 (41)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 21:02:40	Running lcsw35514 (42)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 21:08:23	Running 873345 (43)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 21:14:02	Running msw873345 (44)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 21:19:41	Running msdw873345 (45)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 21:25:20	Running pdsw873345 (46)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 21:30:58	Running lcss35548 (47)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 21:36:42	Running mbs35548 (48)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 21:42:12	Running 874843 (49)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 21:47:56	Running 874851 (50)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 21:53:40	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 21:58:58	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 22:04:09	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 22:09:39	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 22:15:10	Running 874852 (51)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 22:20:56	Running 874853 (52)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 22:26:41	Running 874854 (53)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 22:32:25	Running 874855 (54)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 22:38:08	Running l874855 (55)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 22:43:45	Running dup874855 (56)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 22:49:24	Running mss874855 (57)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 22:55:01	Running msds874855 (58)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 23:00:47	Running pdss874855 (59)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 23:06:42	Running 874856 (60)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 23:12:29	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 23:17:47	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 23:22:58	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 23:28:28	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 23:33:58	Running 874857 (61)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 23:39:45	Running 874858 (62)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 23:45:34	Running 874861 (63)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 23:51:18	Running 874862 (64)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 23:57:02	Running lcss35547 (65)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 00:02:44	Running mbs35547 (66)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 00:08:15	Running 873464 (67)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 00:14:01	Running l873464 (68)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 00:19:53	Running dup873464 (69)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 00:25:45	Running mss873464 (70)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 00:31:28	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 00:36:45	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	11/30/2010 00:41:57	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 00:47:27	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 00:52:58	Running msds873464 (71)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 00:58:42	Running pdss873464 (72)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 01:04:18	Running 873465 (73)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 01:09:56	Running 873466 (74)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 01:15:39	Running 873467 (75)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 01:21:24	Running 873468 (76)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 01:27:10	Running 873469 (77)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 01:32:50	Running 873470 (78)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 01:38:35	Running 873471 (79)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 01:44:15	Running 873473 (80)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 01:49:51	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 01:55:08	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 02:00:19	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 02:05:49	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 02:11:19	Running 873638 (81)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 02:17:11	Running 873639 (82)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 02:23:00	Running 873640 (83)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 02:28:53	Running 873641 (84)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 02:34:31	Running MRL (23)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 02:39:55	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 02:45:13	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 02:50:24	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 02:55:52	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 03:01:20	Plasma off	NAH	iTEVA Control Center	
	11/30/2010 03:01:20	Plasma extinguished successfully	NAH	Analyst	
	11/30/2010 03:01:22	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 06:53:27	Plasma On	NAH	iTEVA Control Center	
	11/30/2010 06:53:32	Plasma ignition successful	NAH	Analyst	
	11/30/2010 06:54:18	D33534 - Debug:Wavelength check : x = 1.810, y =1.676	NAH	Analyst	
	11/30/2010 14:12:14	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 14:12:14	Autosampler Run Started	NAH	Analyst	
	11/30/2010 14:12:59	D33534 - Debug:Wavelength check : x = 1.710, y =1.541	NAH	Analyst	
	11/30/2010 14:13:22	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 14:18:52	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 14:24:21	Running CalibStd=0.5 (3)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 14:29:51	Running CalibStd=1 (4)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 14:33:09	Closing will close the method and all associated samples.	NAH	Analyst	
	11/30/2010 14:35:20	Running CalibStd=5 (5)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 14:40:49	Running CalibStd=10 (6)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 14:46:20	Running CalibStd=20 (7)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 14:51:50	Running CalibStd=50 (8)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 14:57:15	Running CalibStd=100 (9)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 15:02:38	Running CalibStd=1000 (10)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 15:07:40	Running CalibStd=10000 (11)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 15:13:07	Running CalibStd-100k (12)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 15:19:00	Running CalibStd=100000 (13)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 15:24:52	Running CalibStd=500000 (14)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 15:31:00	Running CalibStd-1000k (15)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 15:37:10	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	11/30/2010 15:42:39	Running icv (16)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 15:48:02	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 15:53:31	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 15:59:01	Running MRL (23)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 16:04:26	Running icsa (20)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 16:10:29	Running icsab (21)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 16:16:12	Running lcsw35583 (1)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 16:22:00	Running mbw35583 (2)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 16:27:30	Running 874695 (3)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 16:33:33	Running 874699 (4)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 16:39:32	Running 874705 (5)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 16:45:34	Running 876566 (6)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 16:51:32	Running 875730 (7)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 16:57:21	Running 875765 (8)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 17:02:51	Running l876765 (9)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 17:08:22	Running msw876765 (10)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 17:14:12	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 17:19:22	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 17:24:33	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 17:30:03	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 17:35:35	Running msdw876765 (11)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 17:41:26	Running pdsw876765 (12)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 17:47:11	Running 875608 (13)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 17:52:32	Running 875609 (14)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 17:58:29	Running 875610 (15)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 18:04:19	Running 875611 (16)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 18:10:08	Running 875612 (17)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 18:15:30	Running 875731 (18)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 18:21:25	Running msw875731 (19)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 18:27:03	Running msdw875731 (20)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 18:32:41	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 18:37:50	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 18:43:03	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 18:48:32	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 18:54:04	Running lcss35585 (21)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 18:59:17	Running mbs35585 (22)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 19:04:48	Running 870995 (23)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 19:10:29	Running l870995 (24)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 19:16:11	Running dup870995 (25)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 19:21:59	Running mss870995 (26)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 19:27:42	Running msds870995 (27)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 19:33:17	Running pdss870995 (28)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 19:39:13	Running 872620 (29)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 19:44:54	Running l872620 (30)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 19:50:25	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 19:55:34	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 20:00:45	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 20:06:14	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 20:11:45	Running dup872620 (31)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 20:17:30	Running mss872620 (32)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 20:23:09	Running msds872620 (33)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	11/30/2010 20:28:50	Running pdss872620 (34)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 20:34:30	Running 872621 (35)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 20:40:05	Running lcss35543 (36)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 20:45:19	Running mbs35543 (37)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 20:50:49	Running 874281 (38)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 20:56:21	Running mss874281 (39)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 21:01:42	Running msds874281 (40)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 21:07:04	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 21:12:14	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 21:17:26	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 21:22:56	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 21:28:27	Running pdss874281 (41)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 21:34:08	Running 874282 (42)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 21:39:53	Running 874283 (43)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 21:45:18	Running 874284 (44)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 21:51:00	Running 874285 (45)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 21:56:32	Running 874286 (46)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 22:01:57	Running 874287 (47)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 22:07:31	Running 874288 (48)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 22:12:55	Running 874289 (49)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 22:18:36	Running 874290 (50)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 22:24:08	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 22:29:17	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 22:34:29	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 22:39:59	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 22:45:29	Running 874291 (51)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 22:51:01	Running 874292 (52)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 22:56:45	Running 874293 (53)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 23:02:35	Running 874294 (54)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 23:08:18	Running 874295 (55)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 23:14:05	Running 874296 (56)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 23:19:51	Running 874297 (57)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 23:25:39	Running 874298 (58)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 23:31:21	Running 874299 (59)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 23:36:53	Running 874300 (60)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 23:42:18	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 23:47:28	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 23:52:40	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 23:58:09	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 00:03:40	Running lcss35544 (61)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 00:08:57	Running mbs35544 (62)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 00:14:28	Running 874301 (63)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 00:20:15	Running mss874301 (64)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 00:25:48	Running msds874301 (65)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 00:31:17	Running pdss874301 (66)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 00:36:55	Running 874302 (67)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 00:42:36	Running 874303 (68)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 00:48:26	Running 874304 (69)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 00:54:14	Running 874305 (70)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 00:59:57	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 01:05:07	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	12/01/2010 01:10:19	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 01:15:49	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 01:21:20	Running lod 3010 (71)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 01:26:51	Running loq 3010 (72)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 01:32:22	Running lod 3050 (73)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 01:37:53	Running loq 3050 (74)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 01:43:23	Running MRL (23)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 01:48:48	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 01:53:59	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 01:59:09	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 02:04:36	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 02:10:04	Plasma off	NAH	iTEVA Control Center	
	12/01/2010 02:10:04	Plasma extinguished successfully	NAH	Analyst	
	12/01/2010 02:10:06	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 07:27:22	Plasma On	NAH	iTEVA Control Center	
	12/01/2010 07:27:27	Plasma ignition successful	NAH	Analyst	
	12/01/2010 07:28:13	D33534 - Debug:Wavelength check : x = 1.710, y =1.619	NAH	Analyst	
	12/01/2010 13:28:51	Autosampler Run Started	NAH	Analyst	
	12/01/2010 13:28:51	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 13:29:35	D33534 - Debug:Wavelength check : x = 1.710, y =1.533	NAH	Analyst	
	12/01/2010 13:29:57	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 13:35:26	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 13:39:47	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 13:40:16	Autosampler Run Started	NAH	Analyst	
	12/01/2010 13:40:16	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 13:41:01	D33534 - Debug:Wavelength check : x = 1.710, y =1.478	NAH	Analyst	
	12/01/2010 13:41:24	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 13:46:52	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 13:52:22	Running CalibStd=0.5 (3)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 13:57:52	Running CalibStd=1 (4)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 14:03:22	Running CalibStd=5 (5)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 14:08:53	Running CalibStd=10 (6)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 14:14:24	Running CalibStd=20 (7)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 14:19:54	Running CalibStd=50 (8)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 14:25:20	Running CalibStd=100 (9)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 14:30:44	Running CalibStd=1000 (10)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 14:35:49	Running CalibStd=10000 (11)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 14:41:32	Running CalibStd-100k (12)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 14:47:04	Running CalibStd=100000 (13)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 14:52:56	Running CalibStd=500000 (14)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 14:58:46	Running CalibStd-1000k (15)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 15:05:00	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 15:10:26	Running icv (16)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 15:16:02	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 15:21:31	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 15:27:01	Running MRL (23)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 15:32:26	Running icsa (20)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 15:38:26	Running icsab (21)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 15:44:05	Running lcsw35479 (1)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 15:49:48	Running pdss869616 (2)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 15:55:24	Running 872831 (3)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	12/01/2010 16:01:16	Running 872014 (4)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 16:07:18	Running 876422 (5)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 16:13:15	Running msw876422 (6)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 16:18:57	Running msdw876422 (7)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 16:24:42	Running 876423 (8)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 16:30:41	Running 876424 (9)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 16:36:41	Running 876425 (10)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 16:42:41	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 16:47:50	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 16:53:02	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 16:58:32	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 17:04:03	Running 876426 (11)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 17:09:31	Running lcss35598 (12)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 17:14:45	Running mbs35598 (13)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 17:20:14	Running 876429 (14)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 17:26:02	Running mss876429 (15)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 17:31:37	Running msds876429 (16)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 17:37:13	Running pdss876429 (17)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 17:42:54	Running 876430 (18)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 17:48:40	Running 876431 (19)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 17:54:26	Running lcss35589 (20)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 18:00:02	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 18:05:10	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 18:10:22	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 18:15:51	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 18:21:22	Running mbs35589 (21)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 18:26:52	Running 874473 (22)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 18:32:25	Running l874473 (23)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 18:38:09	Running dup874473 (24)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 18:43:42	Running mss874473 (25)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 18:49:34	Running msds874473 (26)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 18:55:22	Running pdss874473 (27)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 19:01:12	Running 874474 (28)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 19:06:46	Running 874475 (29)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 19:12:17	Running 874476 (30)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 19:17:49	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 19:22:58	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 19:28:09	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 19:33:39	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 19:39:10	Running 874477 (31)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 19:44:42	Running 874478 (32)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 19:50:13	Running 874479 (33)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 19:55:54	Running 874480 (34)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 20:01:26	Running lcss35590 (35)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 20:06:52	Running mbs35590 (36)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 20:12:23	Running 874481 (37)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 20:17:55	Running l874481 (38)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 20:23:39	Running dup874481 (39)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 20:29:09	Running mss874481 (40)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 20:34:43	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 20:39:52	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	12/01/2010 20:45:04	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 20:50:34	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 20:56:05	Running msds874481 (41)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 21:01:37	Running pdss874481 (42)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 21:07:33	Running 874482 (43)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 21:13:05	Running 874483 (44)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 21:18:35	Running 874484 (45)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 21:24:06	Running 874485 (46)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 21:29:46	Running 874486 (47)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 21:35:19	Running 874487 (48)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 21:40:52	Running 874488 (49)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 21:46:24	Running MRL (23)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 21:51:50	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 21:56:59	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 22:02:10	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 22:07:37	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 22:13:07	Plasma off	NAH	iTEVA Control Center	
	12/01/2010 22:13:07	Plasma extinguished successfully	NAH	Analyst	
	12/01/2010 22:13:09	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	12/02/2010 09:09:44	Plasma On	NAH	iTEVA Control Center	
	12/02/2010 09:09:49	Plasma ignition successful	NAH	Analyst	
	12/02/2010 09:10:35	D33534 - Debug:Wavelength check : x = 1.710, y =1.622	NAH	Analyst	
	12/02/2010 09:50:21	Plasma extinguished successfully	NAH	Analyst	
	12/02/2010 09:50:22	Plasma off	NAH	iTEVA Control Center	
	12/02/2010 10:04:33	Plasma On	NAH	iTEVA Control Center	
	12/02/2010 10:04:37	Plasma ignition successful	NAH	Analyst	
	12/02/2010 10:05:39	D33534 - Debug:Wavelength check : x = 1.710, y =1.604	NAH	Analyst	
	12/02/2010 13:31:08	Torch alignment successfully completed.	NAH	Analyst	
	12/02/2010 13:32:54	D33534 - Debug:Wavelength check : x = 1.710, y =1.513	NAH	Analyst	
	12/02/2010 13:34:22	Auto Peak	NAH	Analyst	
	12/02/2010 13:35:43	Auto Peak	NAH	Analyst	
	12/02/2010 13:37:32	D33534 - Debug:Wavelength check : x = 1.710, y =1.462	NAH	Analyst	
	12/02/2010 13:40:51	Auto Peak	NAH	Analyst	
	12/02/2010 13:43:13	Auto Peak	NAH	Analyst	
	12/02/2010 14:25:04	Plasma off	NAH	iTEVA Control Center	
	12/02/2010 14:25:04	Plasma extinguished successfully	NAH	Analyst	
	12/03/2010 06:25:50	Plasma On	NAH	iTEVA Control Center	
	12/03/2010 06:25:54	Plasma ignition successful	NAH	Analyst	
	12/03/2010 06:26:41	D33534 - Debug:Wavelength check : x = 1.573, y =1.646	NAH	Analyst	
	12/03/2010 06:26:56	E9000 - : Plasma ignition failed; please refer to error messages in iTEV	NAH	iTEVA Control Center	
	12/03/2010 06:29:44	Plasma ignition successful	NAH	Analyst	
	12/03/2010 06:30:31	D33534 - Debug:Wavelength check : x = 1.638, y =1.572	NAH	Analyst	
	12/03/2010 06:49:49	Plasma ignition successful	NAH	Analyst	
	12/03/2010 06:50:35	D33534 - Debug:Wavelength check : x = 1.421, y =1.516	NAH	Analyst	
	12/03/2010 06:59:04	Plasma ignition successful	NAH	Analyst	
	12/03/2010 06:59:50	D33534 - Debug:Wavelength check : x = 1.465, y =1.582	NAH	Analyst	
	12/03/2010 08:24:42	Plasma On	NAH	iTEVA Control Center	
	12/03/2010 12:33:44	Autosampler Run Started	NAH	Analyst	
	12/03/2010 12:33:44	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 12:34:28	D33534 - Debug:Wavelength check : x = 1.709, y =1.448	NAH	Analyst	
	12/03/2010 12:34:51	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	12/03/2010 12:40:21	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 12:45:50	Running CalibStd=0.5 (3)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 12:51:20	Running CalibStd=1 (4)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 12:56:50	Running CalibStd=5 (5)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 13:02:21	Running CalibStd=10 (6)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 13:07:53	Running CalibStd=20 (7)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 13:13:22	Running CalibStd=50 (8)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 13:18:48	Running CalibStd=100 (9)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 13:24:12	Running CalibStd=1000 (10)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 13:28:50	Closing will close the method and all associated samples.	NAH	Analyst	
	12/03/2010 13:29:17	Running CalibStd=10000 (11)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 13:35:02	Running CalibStd-100k (12)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 13:40:56	Running CalibStd=100000 (13)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 13:46:48	Running CalibStd=500000 (14)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 13:52:40	Running CalibStd-1000k (15)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 13:58:53	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 14:04:19	Running icv (16)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 14:06:53	Closing will close the method and all associated samples.	NAH	Analyst	
	12/03/2010 14:09:53	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 14:15:22	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 14:20:52	Running MRL (23)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 14:26:19	Running icsa (20)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 14:29:22	Closing will close the method and all associated samples.	NAH	Analyst	
	12/03/2010 14:32:18	Running icsab (21)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 14:37:58	Running 870204 (1)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 14:43:38	Running 870207 (2)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 14:49:16	Running 871184 (3)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 14:54:58	Running 871186 (4)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 15:00:41	Running 871187 (5)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 15:06:23	Running 871188 (6)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 15:12:11	Running 871189 (7)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 15:17:52	Running 871190 (8)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 15:23:33	Running 871191 (9)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 15:29:20	Running 871192 (10)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 15:35:01	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 15:40:11	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 15:45:23	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 15:50:53	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 15:56:24	Running 871193 (11)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 16:02:07	Running 871194 (12)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 16:07:54	Running 871195 (13)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 16:13:32	Running 871196 (14)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 16:19:15	Running 871197 (15)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 16:24:58	Running 871198 (16)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 16:30:38	Running lcss35621 (17)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 16:36:17	Running mbs35621 (18)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 16:41:48	Running 876763 (19)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 16:47:29	Running 876771 (20)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 16:53:05	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 16:58:16	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 17:03:28	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	12/03/2010 17:08:57	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 17:14:28	Running 876772 (21)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 17:20:09	Running 876773 (22)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 17:25:49	Running 876774 (23)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 17:31:31	Running 876775 (24)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 17:37:12	Running 876776 (25)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 17:42:53	Running 876777 (26)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 17:48:38	Running l876777 (27)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 17:54:13	Running dup876777 (28)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 17:59:54	Running mss876777 (29)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 18:05:27	Running msds876777 (30)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 18:11:10	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 18:16:20	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 18:21:32	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 18:27:01	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 18:32:32	Running pdss876777 (31)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 18:38:16	Running 876778 (32)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 18:43:57	Running 876779 (33)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 18:49:50	Running 876780 (34)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 18:55:31	Running lcss35624 (35)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 19:01:12	Running mbw35624 (36)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 19:06:42	Running 870188 (37)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 19:12:26	Running 870189 (38)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 19:18:02	Running l870189 (39)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 19:23:35	Running dup870189 (40)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 19:29:12	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 19:34:21	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 19:39:33	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 19:45:02	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 19:50:32	Running mss870189 (41)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 19:56:05	Running msds870189 (42)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 20:01:38	Running pdss870189 (43)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 20:07:13	Running 870190 (44)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 20:12:55	Running 870191 (45)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 20:18:30	Running 870192 (46)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 20:24:11	Running 870193 (47)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 20:29:49	Running 870194 (48)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 20:35:26	Running 870195 (49)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 20:41:03	Running 870196 (50)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 20:46:39	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 20:51:50	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 20:57:03	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 21:02:32	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 21:08:03	Running 870197 (51)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 21:13:47	Running 870208 (52)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 21:19:30	Running 870209 (53)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 21:25:03	Running 870210 (54)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 21:30:47	Running 870211 (55)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 21:36:29	Running 870212 (56)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 21:42:08	Running 870213 (57)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 21:47:49	Running 870214 (58)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	12/03/2010 21:53:32	Running 870215 (59)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 21:59:14	Running 870216 (60)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 22:04:52	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 22:10:03	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 22:15:16	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 22:20:45	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 22:26:17	Running lcss35623 (61)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 22:32:00	Running mbs35623 (62)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 22:37:32	Running 869552 (63)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 22:43:09	Running l869552 (64)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 22:48:53	Running dup869552 (65)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 22:54:30	Running mss869552 (66)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 23:00:05	Running msds869552 (67)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 23:05:40	Running pdss869552 (68)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 23:11:15	Running 869553 (69)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 23:16:54	Running 869554 (70)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 23:22:29	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 23:27:39	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 23:32:51	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 23:38:22	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 23:43:53	Running 869555 (71)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 23:49:36	Running 869556 (72)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 23:55:23	Running lcss35622 (73)	NAH	Analyst	S_DOD Calibration 1
	12/04/2010 00:00:35	Running mbs35622 (74)	NAH	Analyst	S_DOD Calibration 1
	12/04/2010 00:06:06	Running 875622 (75)	NAH	Analyst	S_DOD Calibration 1
	12/04/2010 00:11:47	Running 875762 (76)	NAH	Analyst	S_DOD Calibration 1
	12/04/2010 00:17:11	Running msw875762 (77)	NAH	Analyst	S_DOD Calibration 1
	12/04/2010 00:22:18	Running msdw875762 (78)	NAH	Analyst	S_DOD Calibration 1
	12/04/2010 00:27:24	Running 875988 (79)	NAH	Analyst	S_DOD Calibration 1
	12/04/2010 00:33:00	Running 876765 (80)	NAH	Analyst	S_DOD Calibration 1
	12/04/2010 00:38:34	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/04/2010 00:43:45	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/04/2010 00:48:57	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/04/2010 00:54:27	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/04/2010 00:59:59	Running mss876765 (81)	NAH	Analyst	S_DOD Calibration 1
	12/04/2010 01:05:15	Running msds876765 (82)	NAH	Analyst	S_DOD Calibration 1
	12/04/2010 01:10:31	Running ab516 (83)	NAH	Analyst	S_DOD Calibration 1
	12/04/2010 01:16:03	Running lcss35620 (84)	NAH	Analyst	S_DOD Calibration 1
	12/04/2010 01:21:21	Running mbs35620 (85)	NAH	Analyst	S_DOD Calibration 1
	12/04/2010 01:26:52	Running 877105 (86)	NAH	Analyst	S_DOD Calibration 1
	12/04/2010 01:33:00	Running mss877105 (87)	NAH	Analyst	S_DOD Calibration 1
	12/04/2010 01:38:56	Running msds877105 (88)	NAH	Analyst	S_DOD Calibration 1
	12/04/2010 01:44:52	Running 877128 (89)	NAH	Analyst	S_DOD Calibration 1
	12/04/2010 01:50:42	Running 877130 (90)	NAH	Analyst	S_DOD Calibration 1
	12/04/2010 01:56:32	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/04/2010 02:01:41	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/04/2010 02:06:53	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/04/2010 02:12:23	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/04/2010 02:17:55	Running 877131 (91)	NAH	Analyst	S_DOD Calibration 1
	12/04/2010 02:23:42	Running 875974 (92)	NAH	Analyst	S_DOD Calibration 1
	12/04/2010 02:29:09	Running 875975 (93)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	12/04/2010 02:34:36	Running blk astm1 (94)	NAH	Analyst	S_DOD Calibration 1
	12/04/2010 02:40:09	Running 877129 (95)	NAH	Analyst	S_DOD Calibration 1
	12/04/2010 02:46:06	Running 877132 (96)	NAH	Analyst	S_DOD Calibration 1
	12/04/2010 02:52:07	Running msw877132 (97)	NAH	Analyst	S_DOD Calibration 1
	12/04/2010 02:57:46	Running msdw877132 (98)	NAH	Analyst	S_DOD Calibration 1
	12/04/2010 03:03:25	Running MRL (23)	NAH	Analyst	S_DOD Calibration 1
	12/04/2010 03:08:52	Running ccv1 (28)	NAH	Analyst	S_DOD Calibration 1
	12/04/2010 03:14:06	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	12/04/2010 03:19:17	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	12/04/2010 03:24:44	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1
	12/04/2010 03:30:16	Plasma extinguished successfully	NAH	Analyst	
	12/04/2010 03:30:17	Plasma off	NAH	iTEVA Control Center	
	12/04/2010 03:30:18	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	12/06/2010 06:55:32	Plasma On	NAH	iTEVA Control Center	
	12/06/2010 06:55:37	Plasma ignition successful	NAH	Analyst	
	12/06/2010 06:56:23	D33534 - Debug:Wavelength check : x = 1.603, y =1.630	NAH	Analyst	
	12/06/2010 13:32:16	Plasma off	NAH	iTEVA Control Center	
	12/06/2010 13:32:16	Plasma extinguished successfully	NAH	Analyst	
	12/07/2010 07:26:56	Plasma On	NAH	iTEVA Control Center	
	12/07/2010 07:27:00	Plasma ignition successful	NAH	Analyst	
	12/07/2010 07:27:39	D33534 - Debug:Wavelength check : x = 1.744, y =1.601	NAH	Analyst	
	12/07/2010 08:38:02	Torch alignment successfully completed.	NAH	Analyst	
	12/07/2010 08:41:06	D33534 - Debug:Wavelength check : x = 1.520, y =1.572	NAH	Analyst	
	12/07/2010 08:42:27	Auto Peak	NAH	Analyst	
	12/07/2010 08:50:21	Auto Peak	NAH	Analyst	
	12/07/2010 14:18:49	Autosampler Run Started	NAH	Analyst	
	12/07/2010 14:18:49	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 14:19:34	D33534 - Debug:Wavelength check : x = 1.615, y =1.542	NAH	Analyst	
	12/07/2010 14:19:56	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 14:25:26	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 14:30:55	Running CalibStd=0.5 (3)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 14:36:25	Running CalibStd=1 (4)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 14:41:56	Running CalibStd=5 (5)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 14:47:26	Running CalibStd=10 (6)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 14:52:58	Running CalibStd=20 (7)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 14:58:27	Running CalibStd=50 (8)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 15:03:52	Running CalibStd=100 (9)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 15:09:17	Running CalibStd=1000 (10)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 15:14:23	Running CalibStd=10000 (11)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 15:20:10	Running CalibStd-100k (12)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 15:26:04	Running CalibStd=100000 (13)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 15:31:56	Running CalibStd=500000 (14)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 15:37:58	Running CalibStd-1000k (15)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 15:44:21	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 15:49:48	Running icv (16)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 15:55:27	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 16:00:57	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 16:06:27	Running MRL (23)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 16:11:54	Running icsa (20)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 16:17:54	Running icsab (21)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 16:23:39	Running 875731 (1)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	12/07/2010 16:29:33	Running 877389 (2)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 16:34:59	Running 877395 (3)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 16:40:26	Running 877396 (4)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 16:45:52	Running 877397 (5)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 16:51:18	Running 877398 (6)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 16:56:45	Running 878700 (7)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 17:02:28	Running msw878700 (8)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 17:08:10	Running msdw878700 (9)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 17:13:51	Running lcsw35651 (10)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 17:19:07	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 17:24:25	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 17:29:34	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 17:35:05	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 17:40:37	Running mbw35651 (11)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 17:46:08	Running 876809 (12)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 17:52:03	Running msw876809 (13)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 17:57:48	Running 877106 (14)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 18:03:39	Running 877108 (15)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 18:09:27	Running tclp blank1 (16)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 18:14:57	Running lcsw35612 (17)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 18:20:13	Running mbw35612 (18)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 18:25:45	Running 875478 (19)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 18:31:42	Running msw875478 (20)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 18:37:28	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 18:42:46	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 18:47:55	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 18:53:26	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 18:58:59	Running 876394 (21)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 19:04:38	Running msw876394 (22)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 19:10:05	Running msdw876394 (23)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 19:15:32	Running lcss35658 (24)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 19:21:02	Running mbs35658 (25)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 19:26:33	Running 875354 (26)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 19:32:19	Running 875360 (27)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 19:38:06	Running 875361 (28)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 19:43:57	Running 875362 (29)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 19:49:34	Running 875363 (30)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 19:55:19	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 20:00:37	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 20:05:47	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 20:11:17	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 20:16:49	Running 875364 (31)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 20:22:23	Running l875364 (32)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 20:27:51	Running dup875374 (33)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 20:33:25	Running mss875374 (34)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 20:39:00	Running msds875364 (35)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 20:44:34	Running pdss875364 (36)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 20:50:21	Running 875365 (37)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 20:56:16	Running 875366 (38)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 21:01:52	Running 875367 (39)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 21:07:27	Running 875368 (40)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	12/07/2010 21:13:10	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 21:18:28	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 21:23:36	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 21:29:07	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 21:34:39	Running 875369 (41)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 21:40:15	Running 875370 (42)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 21:45:51	Running 875371 (43)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 21:51:33	Running 875372 (44)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 21:57:05	Running 875373 (45)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 22:02:39	Running lcsw35659 (46)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 22:07:57	Running mbw35659 (47)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 22:13:29	Running 876254 (48)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 22:19:21	Running 876257 (49)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 22:25:15	Running 876258 (50)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 22:31:09	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 22:36:24	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 22:41:33	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 22:47:04	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 22:52:36	Running 876259 (51)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 22:58:30	Running l876259 (52)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 23:04:30	Running dup876259 (53)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 23:10:23	Running msw876259 (54)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 23:16:03	Running msdw876259 (55)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 23:21:43	Running pdsw876259 (56)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 23:27:27	Running 876690 (57)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 23:33:20	Running 876693 (58)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 23:39:13	Running 876694 (59)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 23:45:08	Running 876695 (60)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 23:51:03	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/07/2010 23:56:16	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 00:01:26	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 00:06:56	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 00:12:29	Running 876696 (61)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 00:18:20	Running 876697 (62)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 00:24:16	Running 876698 (63)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 00:30:11	Running 876699 (64)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 00:36:04	Running 877291 (65)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 00:41:59	Running 877292 (66)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 00:47:55	Running 877293 (67)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 00:53:49	Running 877294 (68)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 00:59:49	Running 877295 (69)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 01:05:44	Running 877296 (70)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 01:11:34	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 01:16:47	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 01:21:56	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 01:27:26	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 01:32:58	Running 877297 (71)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 01:38:53	Running 877298 (72)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 01:44:45	Running lcss35648 (73)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 01:50:01	Running mbs35648 (74)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 01:55:30	Running 874881 (75)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	12/08/2010 02:01:27	Running l874881 (76)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 02:07:18	Running mss874881 (77)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 02:13:03	Running msds874881 (78)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 02:18:44	Running pdss874881 (79)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 02:24:30	Running 875056 (80)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 02:30:26	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 02:35:42	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 02:40:50	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 02:46:21	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 02:51:52	Running 875088 (81)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 02:57:43	Running 875090 (82)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 03:03:33	Running 875092 (83)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 03:09:29	Running 875094 (84)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 03:15:27	Running 875096 (85)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 03:21:23	Running 875098 (86)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 03:27:19	Running 875099 (87)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 03:33:16	Running 875100 (88)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 03:39:11	Running 875102 (89)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 03:45:05	Running 875104 (90)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 03:50:56	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 03:56:15	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 04:01:25	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 04:06:55	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 04:12:26	Running 875106 (91)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 04:18:17	Running 875108 (92)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 04:24:13	Running 875110 (93)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 04:30:03	Running 875112 (94)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 04:36:00	Running 875114 (95)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 04:41:56	Running 875116 (96)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 04:47:48	Running 875118 (97)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 04:53:41	Running 875120 (98)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 04:59:35	Running icsab1 (99)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 05:05:25	Running lcss35650 (100)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 05:10:42	Running ccv1 (28)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 05:16:02	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 05:21:15	Running cal blk (29)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 05:26:46	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 05:32:18	Running mbs35650 (101)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 05:37:49	Running 875160 (102)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 05:43:49	Running l875160 (103)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 05:49:49	Running mss875160 (104)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 05:55:55	Running msds875160 (105)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 06:02:02	Running pdss875160 (106)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 06:08:08	Running 875162 (107)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 06:14:01	Running 875164 (108)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 06:19:53	Running 875166 (109)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 06:25:47	Running 875168 (110)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 06:31:39	Running ccv1 (28)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 06:37:00	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 06:42:12	Running cal blk (29)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 06:47:43	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	12/08/2010 06:53:16	Running 875170 (111)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 06:59:11	Running 875172 (112)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 07:05:05	Running 875174 (113)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 07:11:04	Running icsab1 (114)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 07:16:55	Running MRL (23)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 07:22:22	Running ccv1 (28)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 07:27:42	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 07:32:52	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 07:38:20	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 07:43:49	Plasma extinguished successfully	NAH	Analyst	
	12/08/2010 07:43:50	Plasma off	NAH	iTEVA Control Center	
	12/08/2010 07:43:51	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 08:03:35	Plasma On	NAH	iTEVA Control Center	
	12/08/2010 08:03:40	Plasma ignition successful	NAH	Analyst	
	12/08/2010 08:04:27	D33534 - Debug:Wavelength check : x = 1.710, y =1.529	NAH	Analyst	
	12/08/2010 10:11:36	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 10:11:36	Autosampler Run Started	NAH	Analyst	
	12/08/2010 10:12:20	D33534 - Debug:Wavelength check : x = 1.533, y =1.485	NAH	Analyst	
	12/08/2010 10:12:43	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 10:17:54	E33539 - : Error Updating Method with standard: Standard saturated.	NAH	Analyst	
	12/08/2010 10:17:57	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 10:23:15	Running CalibStd=0.5 (3)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 10:23:31	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 10:28:53	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 10:28:53	Autosampler Run Started	NAH	Analyst	
	12/08/2010 10:29:40	D33534 - Debug:Wavelength check : x = 1.568, y =1.492	NAH	Analyst	
	12/08/2010 10:30:03	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 10:35:21	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 10:40:40	Running CalibStd=0.5 (3)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 10:46:00	Running CalibStd=1 (4)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 10:46:26	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 10:49:03	Autosampler Run Started	NAH	Analyst	
	12/08/2010 10:49:03	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 10:49:49	D33534 - Debug:Wavelength check : x = 1.547, y =1.575	NAH	Analyst	
	12/08/2010 10:50:12	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 10:51:26	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 10:51:51	Autosampler Run Started	NAH	Analyst	
	12/08/2010 10:51:51	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 10:52:38	D33534 - Debug:Wavelength check : x = 1.585, y =1.546	NAH	Analyst	
	12/08/2010 10:53:01	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 10:58:19	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 11:01:03	Closing will close the method and all associated samples.	NAH	Analyst	
	12/08/2010 11:01:05	Closing will close the method and all associated samples.	NAH	Analyst	
	12/08/2010 11:03:23	Running CalibStd=0.5 (3)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 11:08:42	Running CalibStd=1 (4)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 11:14:01	Running CalibStd=5 (5)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 11:19:20	Running CalibStd=10 (6)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 11:24:38	Running CalibStd=20 (7)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 11:29:55	Running CalibStd=50 (8)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 11:35:09	Running CalibStd=100 (9)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 11:40:21	Running CalibStd=1000 (10)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	12/08/2010 11:45:17	Running CalibStd=10000 (11)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 11:50:48	Running CalibStd-100k (12)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 11:56:13	Running CalibStd=100000 (13)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 12:01:48	Running CalibStd=500000 (14)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 12:07:46	Running CalibStd-1000k (15)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 12:13:52	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 12:19:07	Running icv (16)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 12:24:32	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 12:29:51	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 12:35:10	Running MRL (23)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 12:40:25	Running icsa (20)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 12:46:20	Running icsab (21)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 12:51:59	Running 875731 (1)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 12:57:36	Running 877389 (2)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 13:02:51	Running 877395 (3)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 13:08:06	Running 877396 (4)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 13:13:20	Running 877397 (5)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 13:18:34	Running 877398 (6)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 13:24:05	Running 878700 (7)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 13:29:36	Running msw878700 (8)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 13:35:09	Running msdw878700 (9)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 13:40:40	Running lod chk 3010 (10)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 13:45:59	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 13:51:15	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 13:56:17	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 14:01:37	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 14:06:57	Running loq chk 3010 (11)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 14:12:17	Running loq chk 3010 (12)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 14:17:36	Running lod chk 3050 (13)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 14:21:20	Closing will close the method and all associated samples.	NAH	Analyst	
	12/08/2010 14:22:54	Running loq chk 3050 (14)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 14:28:12	Running loq chk 3050 (15)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 14:33:31	Running lcss35548 (16)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 14:38:56	Running mbs35548 (17)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 14:44:14	Running 874843 (18)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 14:49:51	Running 874851 (19)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 14:55:28	Running 874852 (20)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 15:01:06	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 15:06:15	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 15:11:19	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 15:16:38	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 15:21:59	Running 874853 (21)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 15:27:36	Running 874854 (22)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 15:33:13	Running 874855 (23)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 15:38:50	Running l874855 (24)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 15:44:27	Running dup874855 (25)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 15:50:02	Running mss874855 (26)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 15:55:24	Running msds874855 (27)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 16:00:47	Running pdss874855 (28)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 16:06:41	Running 874856 (29)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 16:12:18	Running 874857 (30)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	12/08/2010 16:17:55	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 16:23:10	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 16:28:13	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 16:33:32	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 16:38:53	Running 874858 (31)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 16:44:31	Running 874861 (32)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 16:50:08	Running 874862 (33)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 16:55:44	Running lcss35547 (34)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 17:01:10	Running mbs35547 (35)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 17:06:28	Running 873464 (36)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 17:12:04	Running l873464 (37)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 17:17:42	Running dup873464 (38)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 17:23:18	Running mss873464 (39)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 17:28:50	Running msds873464 (40)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 17:34:21	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 17:39:31	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 17:44:34	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 17:49:54	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 17:55:14	Running pdss873464 (41)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 18:00:54	Running 873465 (42)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 18:06:29	Running 873466 (43)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 18:12:06	Running 873467 (44)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 18:17:42	Running 873468 (45)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 18:23:18	Running 873469 (46)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 18:28:55	Running 873470 (47)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 18:34:30	Running 873471 (48)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 18:40:06	Running 873473 (49)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 18:45:42	Running 873638 (50)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 18:51:17	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 18:56:33	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 19:01:35	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 19:06:54	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 19:12:15	Running 873639 (51)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 19:17:52	Running 873640 (52)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 19:23:27	Running 873641 (53)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 19:29:04	Running lcss35589 (54)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 19:34:33	Running mbs35589 (55)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 19:39:52	Running 874473 (56)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 19:45:28	Running l874473 (57)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 19:51:01	Running dup874473 (58)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 19:56:34	Running mss874473 (59)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 20:02:27	Running msds874473 (60)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 20:08:18	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 20:13:27	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 20:18:30	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 20:23:49	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 20:29:09	Running pdss874473 (61)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 20:34:54	Running 874474 (62)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 20:40:34	Running 874475 (63)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 20:46:06	Running 874476 (64)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 20:51:39	Running 874477 (65)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	12/08/2010 20:57:12	Running 874478 (66)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 21:02:45	Running 874479 (67)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 21:08:13	Running 874480 (68)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 21:13:47	Running lcss35590 (69)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 21:19:17	Running mbs35590 (70)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 21:24:35	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 21:29:42	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 21:34:44	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 21:40:03	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 21:45:23	Running 874481 (71)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 21:50:49	Running l874481 (72)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 21:56:22	Running dup874481 (73)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 22:01:46	Running mss874481 (74)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 22:07:28	Running msds874481 (75)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 22:13:11	Running pdss874481 (76)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 22:18:55	Running 874482 (77)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 22:24:26	Running 874483 (78)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 22:29:51	Running 874484 (79)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 22:35:15	Running 874485 (80)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 22:40:38	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 22:45:45	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 22:50:48	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 22:56:07	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 23:01:26	Running 874486 (81)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 23:06:53	Running 874487 (82)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 23:12:18	Running 874488 (83)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 23:17:44	Running lcss35649 (84)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 23:22:49	Running mbs35649 (85)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 23:28:08	Running 875122 (86)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 23:33:48	Running l875122 (87)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 23:39:31	Running mss875122 (88)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 23:45:07	Running msds875122 (89)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 23:50:39	Running pdss875122 (90)	NAH	Analyst	S_DOD Calibration 1
	12/08/2010 23:56:11	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 00:01:21	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 00:06:24	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 00:11:41	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 00:17:01	Running 875124 (91)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 00:22:43	Running 875126 (92)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 00:28:21	Running 875128 (93)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 00:33:54	Running 875130 (94)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 00:39:39	Running 875132 (95)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 00:45:24	Running 875134 (96)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 00:51:06	Running 875136 (97)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 00:56:49	Running 875138 (98)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 01:02:32	Running 875140 (99)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 01:08:15	Running 875142 (100)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 01:13:59	Running ccv1 (29)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 01:19:08	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 01:24:14	Running cal blk (28)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 01:29:34	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	12/09/2010 01:34:56	Running 875144 (101)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 01:40:40	Running 875146 (102)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 01:46:22	Running 875147 (103)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 01:52:02	Running 875148 (104)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 01:57:46	Running 875150 (105)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 02:03:27	Running 875152 (106)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 02:09:11	Running 875154 (107)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 02:14:50	Running 875156 (108)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 02:20:32	Running 875158 (109)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 02:26:14	Running lcss35701 (110)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 02:31:41	Running ccv1 (29)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 02:36:52	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 02:41:56	Running cal blk (28)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 02:47:17	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 02:52:37	Running mbs35701 (111)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 02:57:57	Running 877680 (112)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 03:03:37	Running 877681 (113)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 03:09:17	Running 877682 (114)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 03:14:56	Running 877683 (115)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 03:20:34	Running 877684 (116)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 03:26:14	Running 877685 (117)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 03:31:47	Running 877686 (118)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 03:37:27	Running 877687 (119)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 03:43:06	Running l877687 (120)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 03:48:30	Running ccv1 (29)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 03:53:40	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 03:58:45	Running cal blk (28)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 04:04:05	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 04:09:25	Running dup877687 (121)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 04:15:06	Running mss877687 (122)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 04:20:32	Running msds877687 (123)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 04:26:02	Running pdss877687 (124)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 04:31:41	Running 877688 (125)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 04:37:14	Running 877689 (126)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 04:42:48	Running 877690 (127)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 04:48:21	Running lcss35700 (128)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 04:53:38	Running mbss35700 (129)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 04:58:59	Running 878077 (130)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 05:04:29	Running ccv1 (29)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 05:09:39	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 05:14:43	Running cal blk (28)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 05:20:03	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 05:25:23	Running mss878077 (131)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 05:30:49	Running msds878077 (132)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 05:36:14	Running 878551 (133)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 05:41:55	Running lcsw35646 (134)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 05:47:04	Running mbw35646 (135)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 05:52:24	Running 875176 (136)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 05:57:53	Running l875176 (137)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 06:03:15	Running msw875176 (138)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 06:08:34	Running msdw875176 (139)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	12/09/2010 06:13:53	Running pdsw875176 (140)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 06:19:28	Running ccv1 (29)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 06:24:38	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 06:29:42	Running cal blk (28)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 06:35:02	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 06:40:23	Running 875177 (141)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 06:45:52	Running 875178 (142)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 06:51:22	Running 875179 (143)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 06:56:51	Running 875180 (144)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 07:02:20	Running 875181 (145)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 07:07:50	Running 875182 (146)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 07:13:30	Running 875183 (147)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 07:19:11	Running 875184 (148)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 07:24:41	Running 875185 (149)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 07:30:01	Running 875186 (150)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 07:35:28	Running ccv1 (29)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 07:40:39	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 07:45:44	Running cal blk (28)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 07:51:03	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 07:56:24	Running 875187 (151)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 08:01:45	Running 875188 (152)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 08:07:26	Running 875189 (153)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 08:12:54	Running 875190 (154)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 08:18:25	Running 875191 (155)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 08:23:56	Running 875197 (156)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 08:29:29	Running 875198 (157)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 08:34:58	Running tclp vess1 (158)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 08:40:19	Running icsa (159)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 08:46:12	Running icsab (160)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 08:51:50	Running ccv1 (29)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 08:57:01	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 09:02:06	Running cal blk (28)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 09:07:26	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 09:12:45	Running MRL (23)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 09:18:01	Running ccv1 (29)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 09:23:12	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 09:28:15	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 09:33:31	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 09:38:48	Plasma extinguished successfully	NAH	Analyst	
	12/09/2010 09:38:48	Plasma off	NAH	iTEVA Control Center	
	12/09/2010 09:38:50	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 09:42:39	Plasma On	NAH	iTEVA Control Center	
	12/09/2010 09:42:43	Plasma ignition successful	NAH	Analyst	
	12/09/2010 09:43:30	D33534 - Debug:Wavelength check : x = 1.710, y =1.495	NAH	Analyst	
	12/09/2010 14:05:29	iTEVA loaded	NAH	iTEVA Control Center	
	12/09/2010 14:05:47	Connected to instrument 20070314	NAH	iTEVA Control Center	
	12/09/2010 14:06:23	Plasma On	NAH	iTEVA Control Center	
	12/09/2010 14:07:46	Autosampler Run Started	NAH	Analyst	
	12/09/2010 14:07:46	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 14:08:31	D33534 - Debug:Wavelength check : x = 1.710, y =1.510	NAH	Analyst	
	12/09/2010 14:08:53	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	12/09/2010 14:14:10	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 14:19:29	Running CalibStd=0.5 (3)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 14:24:48	Running CalibStd=1 (4)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 14:30:07	Running CalibStd=5 (5)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 14:35:27	Running CalibStd=10 (6)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 14:40:46	Running CalibStd=20 (7)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 14:41:18	Autosampler rack position 789 does not exist.	NAH	Analyst	
	12/09/2010 14:46:03	Running CalibStd=50 (8)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 14:51:18	Running CalibStd=100 (9)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 14:56:29	Running CalibStd=1000 (10)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 15:01:27	Running CalibStd=10000 (11)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 15:06:51	Running CalibStd-100k (12)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 15:12:17	Running CalibStd=100000 (13)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 15:17:52	Running CalibStd=500000 (14)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 15:23:33	Running CalibStd-1000k (15)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 15:29:27	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 15:34:42	Running icv (16)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 15:40:01	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 15:45:19	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 15:50:36	Running MRL (23)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 15:55:52	Running icsa (20)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 16:01:35	Running icsab (21)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 16:07:03	Running lcss35621 (1)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 16:12:29	Running mbs35621 (2)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 16:17:47	Running 876763 (3)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 16:23:18	Running 876771 (4)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 16:28:46	Running 876772 (5)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 16:34:20	Running 876773 (6)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 16:39:56	Running 876774 (7)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 16:45:33	Running 876775 (8)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 16:51:07	Running 876776 (9)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 16:56:51	Running 876777 (10)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 17:02:21	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 17:07:30	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 17:12:34	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 17:17:53	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 17:23:12	Running l876777 (11)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 17:28:36	Running dup876777 (12)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 17:34:10	Running mss876777 (13)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 17:39:37	Running msds876777 (14)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 17:45:16	Running pdss876777 (15)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 17:51:08	Running 876778 (16)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 17:56:46	Running 876779 (17)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 18:02:25	Running 876780 (18)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 18:08:12	Running lcss35624 (19)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 18:13:38	Running mbw35624 (20)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 18:18:57	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 18:24:06	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 18:29:10	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 18:34:30	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 18:39:49	Running 870188 (21)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	12/09/2010 18:45:12	Running 870189 (22)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 18:50:41	Running l870189 (23)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 18:56:04	Running dup870189 (24)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 19:01:31	Running mss870189 (25)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 19:06:57	Running msds870189 (26)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 19:12:20	Running pdss870189 (27)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 19:17:53	Running 870190 (28)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 19:23:25	Running 870191 (29)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 19:28:43	Running 870192 (30)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 19:34:04	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 19:39:13	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 19:44:17	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 19:49:37	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 19:54:55	Running 870193 (31)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 20:00:17	Running 870194 (32)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 20:05:37	Running 870195 (33)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 20:11:03	Running 870196 (34)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 20:16:31	Running 870197 (35)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 20:22:02	Running 870208 (36)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 20:27:32	Running 870209 (37)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 20:32:47	Running 870210 (38)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 20:38:17	Running 870211 (39)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 20:43:49	Running 870212 (40)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 20:49:19	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 20:54:28	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 20:59:32	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 21:04:52	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 21:10:11	Running 870213 (41)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 21:15:40	Running 870214 (42)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 21:21:12	Running 870215 (43)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 21:26:45	Running 870216 (44)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 21:32:13	Running lcss35623 (45)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 21:37:39	Running mbs35623 (46)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 21:42:58	Running 869552 (47)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 21:48:28	Running l869552 (48)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 21:53:51	Running dup869552 (49)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 21:59:17	Running mss869552 (50)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 22:04:45	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 22:09:54	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 22:14:58	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 22:20:18	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 22:25:36	Running msds869552 (51)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 22:31:05	Running pdss869552 (52)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 22:36:39	Running 869553 (53)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 22:42:03	Running 869554 (54)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 22:47:27	Running 869555 (55)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 22:52:49	Running 869556 (56)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 22:58:10	Running lcsw35704 (57)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 23:03:15	Running mbw35704 (58)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 23:08:36	Running 877706 (59)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 23:14:11	Running l877706 (60)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	12/09/2010 23:19:43	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 23:24:52	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 23:29:56	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 23:35:15	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 23:40:34	Running dup877706 (61)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 23:46:09	Running msw877706 (62)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 23:51:30	Running msdw877706 (63)	NAH	Analyst	S_DOD Calibration 1
	12/09/2010 23:56:50	Running pdsw87706 (64)	NAH	Analyst	S_DOD Calibration 1
	12/10/2010 00:02:18	Running 877707 (65)	NAH	Analyst	S_DOD Calibration 1
	12/10/2010 00:07:55	Running 877708 (66)	NAH	Analyst	S_DOD Calibration 1
	12/10/2010 00:13:31	Running 877709 (67)	NAH	Analyst	S_DOD Calibration 1
	12/10/2010 00:19:08	Running 877710 (38)	NAH	Analyst	S_DOD Calibration 1
	12/10/2010 00:24:38	Running 877711 (69)	NAH	Analyst	S_DOD Calibration 1
	12/10/2010 00:30:17	Running 877712 (70)	NAH	Analyst	S_DOD Calibration 1
	12/10/2010 00:35:56	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/10/2010 00:41:05	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/10/2010 00:46:10	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/10/2010 00:51:28	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/10/2010 00:56:47	Running 877713 (71)	NAH	Analyst	S_DOD Calibration 1
	12/10/2010 01:02:26	Running 877716 (72)	NAH	Analyst	S_DOD Calibration 1
	12/10/2010 01:08:06	Running 877717 (73)	NAH	Analyst	S_DOD Calibration 1
	12/10/2010 01:13:45	Running 877718 (74)	NAH	Analyst	S_DOD Calibration 1
	12/10/2010 01:19:17	Running 877719 (75)	NAH	Analyst	S_DOD Calibration 1
	12/10/2010 01:24:48	Running 877720 (76)	NAH	Analyst	S_DOD Calibration 1
	12/10/2010 01:30:27	Running 877721 (77)	NAH	Analyst	S_DOD Calibration 1
	12/10/2010 01:36:05	Running lcsw35702 (78)	NAH	Analyst	S_DOD Calibration 1
	12/10/2010 01:41:46	Running mbw35702 (79)	NAH	Analyst	S_DOD Calibration 1
	12/10/2010 01:47:05	Running 877208 (80)	NAH	Analyst	S_DOD Calibration 1
	12/10/2010 01:52:37	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/10/2010 01:57:46	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/10/2010 02:02:51	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/10/2010 02:08:09	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/10/2010 02:13:28	Running 877210 (81)	NAH	Analyst	S_DOD Calibration 1
	12/10/2010 02:19:01	Running l877210 (82)	NAH	Analyst	S_DOD Calibration 1
	12/10/2010 02:24:35	Running dup877210 (83)	NAH	Analyst	S_DOD Calibration 1
	12/10/2010 02:30:06	Running msw877210 (84)	NAH	Analyst	S_DOD Calibration 1
	12/10/2010 02:35:46	Running msdw877210 (85)	NAH	Analyst	S_DOD Calibration 1
	12/10/2010 02:41:26	Running pdsw877210 (86)	NAH	Analyst	S_DOD Calibration 1
	12/10/2010 02:47:15	Running 877212 (87)	NAH	Analyst	S_DOD Calibration 1
	12/10/2010 02:52:47	Running 877214 (88)	NAH	Analyst	S_DOD Calibration 1
	12/10/2010 02:58:20	Running 877216 (88)	NAH	Analyst	S_DOD Calibration 1
	12/10/2010 03:03:53	Running 877218 (90)	NAH	Analyst	S_DOD Calibration 1
	12/10/2010 03:09:25	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/10/2010 03:14:33	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/10/2010 03:19:37	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/10/2010 03:24:55	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/10/2010 03:30:14	Running 877220 (91)	NAH	Analyst	S_DOD Calibration 1
	12/10/2010 03:35:47	Running 877222 (92)	NAH	Analyst	S_DOD Calibration 1
	12/10/2010 03:41:20	Running 877224 (93)	NAH	Analyst	S_DOD Calibration 1
	12/10/2010 03:46:53	Running 877226 (94)	NAH	Analyst	S_DOD Calibration 1
	12/10/2010 03:52:25	Running 877228 (95)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	11/19/2010 17:28:56	Running mbs35471 (38)	NAH	Analyst	S_Sodium and Pota
	11/19/2010 17:31:27	Running 869616 (39)	NAH	Analyst	S_Sodium and Pota
	11/19/2010 17:34:10	Running mss869616 (40)	NAH	Analyst	S_Sodium and Pota
	11/19/2010 17:36:53	Running ccv (14)	NAH	Analyst	S_Sodium and Pota
	11/19/2010 17:39:21	Running ccb (15)	NAH	Analyst	S_Sodium and Pota
	11/19/2010 17:41:50	Running msds869616 (41)	NAH	Analyst	S_Sodium and Pota
	11/19/2010 17:44:33	Running 872672 (42)	NAH	Analyst	S_Sodium and Pota
	11/19/2010 17:46:59	Running 872749 (43)	NAH	Analyst	S_Sodium and Pota
	11/19/2010 17:49:25	Running 872754 (44)	NAH	Analyst	S_Sodium and Pota
	11/19/2010 17:51:51	Running 872755 (45)	NAH	Analyst	S_Sodium and Pota
	11/19/2010 17:54:16	Running 872756 (46)	NAH	Analyst	S_Sodium and Pota
	11/19/2010 17:56:50	Running 872831 (47)	NAH	Analyst	S_Sodium and Pota
	11/19/2010 17:59:17	Running lcsw35479 (48)	NAH	Analyst	S_Sodium and Pota
	11/19/2010 18:01:54	Running mbw35479 (49)	NAH	Analyst	S_Sodium and Pota
	11/19/2010 18:04:24	Running 872775 (50)	NAH	Analyst	S_Sodium and Pota
	11/19/2010 18:07:00	Running ccv (14)	NAH	Analyst	S_Sodium and Pota
	11/19/2010 18:09:27	Running ccb (15)	NAH	Analyst	S_Sodium and Pota
	11/19/2010 18:11:57	Running lcss35367 (51)	NAH	Analyst	S_Sodium and Pota
	11/19/2010 18:14:26	Running mss867271 (52)	NAH	Analyst	S_Sodium and Pota
	11/19/2010 18:17:01	Running msds867271 (53)	NAH	Analyst	S_Sodium and Pota
	11/19/2010 18:19:37	Running ccv (14)	NAH	Analyst	S_Sodium and Pota
	11/19/2010 18:22:05	Running ccb (15)	NAH	Analyst	S_Sodium and Pota
	11/19/2010 18:24:33	Plasma extinguished successfully	NAH	Analyst	
	11/19/2010 18:24:34	Plasma off	NAH	iTEVA Control Center	
	11/19/2010 18:24:35	Autosampler Run Completed	NAH	Analyst	S_Sodium and Pota
	11/22/2010 06:32:34	Plasma On	NAH	iTEVA Control Center	
	11/22/2010 06:32:39	Plasma ignition successful	NAH	Analyst	
	11/22/2010 06:33:18	D33534 - Debug:Wavelength check : x = -1.619, y =0.923	NAH	Analyst	
	11/22/2010 07:04:52	Autosampler Run Started	NAH	Analyst	
	11/22/2010 07:04:52	Sequence Started	NAH	Analyst	S_Sodium and Pota
	11/22/2010 07:05:36	D33534 - Debug:Wavelength check : x = -1.632, y =0.855	NAH	Analyst	
	11/22/2010 07:05:58	Running Blank (1)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 07:08:36	Running CalibStd-0.5 (2)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 07:11:04	Running CalibStd-1.0 (3)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 07:13:31	Running CalibStd-5.0 (4)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 07:15:57	Running CalibStd-10.0 (5)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 07:18:24	Running CalibStd-50 (6)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 07:20:51	Running CalibStd-100 (7)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 07:23:18	Running CalibStd-200 (8)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 07:25:43	Running CalibStd-500 (9)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 07:28:24	Running icv (10)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 07:30:50	Running icb (11)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 07:33:18	Running mrl (16)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 07:35:44	Running icsa (12)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 07:38:26	Running icsab (13)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 07:41:06	Running lcss35475 (1)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 07:43:40	Running mbs35475 (2)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 07:46:08	Running 870200 (3)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 07:48:39	Running 870201 (4)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 07:51:02	Running l870201 (5)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 07:52:46	Closing will close the method and all associated samples.	NAH	Analyst	

Type	Date/Time	Message	User name	Application	Sequence Name
	11/22/2010 07:53:26	Running dup870201 (6)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 07:54:33	Closing will close the method and all associated samples.	NAH	Analyst	
	11/22/2010 07:55:48	Running mss870201 (7)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 07:58:20	Running msds870201 (8)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 08:00:53	Running pdss870201 (9)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 08:03:18	Running 870202 (10)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 08:05:50	Running ccv (14)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 08:08:18	Running ccb (15)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 08:10:46	Running 870203 (11)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 08:13:10	Running 870204 (12)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 08:15:33	Running 870207 (13)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 08:18:05	Running 871184 (14)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 08:20:43	Running 871186 (15)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 08:23:23	Running 871187 (16)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 08:25:48	Running 871188 (17)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 08:28:29	Running 871189 (18)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 08:31:03	Running 871190 (19)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 08:33:27	Running 871191 (20)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 08:36:08	Running ccv (14)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 08:38:35	Running ccb (15)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 08:41:03	Running 871192 (21)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 08:43:35	Running 871193 (22)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 08:46:16	Running 871194 (23)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 08:48:41	Running 871195 (24)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 08:51:05	Running 871196 (25)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 08:53:38	Running 871197 (26)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 08:56:10	Running 871198 (27)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 08:58:50	Running lcss35484 (28)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 09:01:24	Running mbs35484 (29)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 09:03:52	Running 872313 (30)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 09:06:42	Running ccv (14)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 09:09:08	Running ccb (15)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 09:11:36	Running l872313 (31)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 09:14:08	Running dup872313 (32)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 09:16:58	Running mss872313 (33)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 09:19:48	Running msds872313 (34)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 09:22:39	Running pdss872313 (35)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 09:25:29	Running 872314 (36)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 09:28:20	Running lcss35471 (37)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 09:30:48	Running mbs35471 (38)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 09:33:16	Running 869616 (39)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 09:35:59	Running mss869616 (40)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 09:38:42	Running ccv (14)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 09:41:08	Running ccb (15)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 09:43:36	Running msds869616 (41)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 09:46:17	Running 872672 (42)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 09:48:42	Running 872749 (43)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 09:51:07	Running 872754 (44)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 09:53:32	Running 872755 (45)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 09:55:56	Running 872756 (46)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 09:58:21	Running 872831 (47)	NAH	Analyst	S_Sodium and Pota

Type	Date/Time	Message	User name	Application	Sequence Name
	11/22/2010 10:00:47	Running lcsw35479 (48)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 10:03:23	Running mbw35479 (49)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 10:05:52	Running 872775 (50)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 10:08:26	Running ccv (14)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 10:10:52	Running ccb (15)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 10:13:20	Running lcss35367 (51)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 10:15:48	Running mss867271 (52)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 10:18:19	Running msds867271 (53)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 10:20:53	Running ccv (14)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 10:23:20	Running ccb (15)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 10:25:43	Sequence Started	NAH	Analyst	S_Ti,Sn,W,Sr,Li 3(v8
	11/22/2010 10:26:30	D33534 - Debug:Wavelength check : x = -1.703, y =0.815	NAH	Analyst	
	11/22/2010 10:26:54	Running Blank (17)	NAH	Analyst	S_Ti,Sn,W,Sr,Li 3(v8
	11/22/2010 10:31:40	Running 1 (18)	NAH	Analyst	S_Ti,Sn,W,Sr,Li 3(v8
	11/22/2010 10:36:28	Running 10 (19)	NAH	Analyst	S_Ti,Sn,W,Sr,Li 3(v8
	11/22/2010 10:41:17	Running 100 (20)	NAH	Analyst	S_Ti,Sn,W,Sr,Li 3(v8
	11/22/2010 10:46:05	Running 1000 (21)	NAH	Analyst	S_Ti,Sn,W,Sr,Li 3(v8
	11/22/2010 10:50:48	Running 10000 (22)	NAH	Analyst	S_Ti,Sn,W,Sr,Li 3(v8
	11/22/2010 10:55:27	Running 500000 (23)	NAH	Analyst	S_Ti,Sn,W,Sr,Li 3(v8
	11/22/2010 11:00:11	Running icv (24)	NAH	Analyst	S_Ti,Sn,W,Sr,Li 3(v8
	11/22/2010 11:04:55	Running icb (25)	NAH	Analyst	S_Ti,Sn,W,Sr,Li 3(v8
	11/22/2010 11:09:44	Running icsa (26)	NAH	Analyst	S_Ti,Sn,W,Sr,Li 3(v8
	11/22/2010 11:14:29	Running icsab (27)	NAH	Analyst	S_Ti,Sn,W,Sr,Li 3(v8
	11/22/2010 11:19:09	Running lcss35361 (54)	NAH	Analyst	S_Ti,Sn,W,Sr,Li 3(v8
	11/22/2010 11:23:55	Running mbs35361 (55)	NAH	Analyst	S_Ti,Sn,W,Sr,Li 3(v8
	11/22/2010 11:28:44	Running 849119 (56)	NAH	Analyst	S_Ti,Sn,W,Sr,Li 3(v8
	11/22/2010 11:33:32	Running mss849119 (57)	NAH	Analyst	S_Ti,Sn,W,Sr,Li 3(v8
	11/22/2010 11:38:20	Running msds849119 (58)	NAH	Analyst	S_Ti,Sn,W,Sr,Li 3(v8
	11/22/2010 11:43:07	Running 849120 (59)	NAH	Analyst	S_Ti,Sn,W,Sr,Li 3(v8
	11/22/2010 11:47:54	Running 849121 (60)	NAH	Analyst	S_Ti,Sn,W,Sr,Li 3(v8
	11/22/2010 11:52:42	Running lcsw35514 (61)	NAH	Analyst	S_Ti,Sn,W,Sr,Li 3(v8
	11/22/2010 11:57:28	Running mbw35514 (62)	NAH	Analyst	S_Ti,Sn,W,Sr,Li 3(v8
	11/22/2010 12:02:17	Running 873345 (63)	NAH	Analyst	S_Ti,Sn,W,Sr,Li 3(v8
	11/22/2010 12:07:03	Running ccv (28)	NAH	Analyst	S_Ti,Sn,W,Sr,Li 3(v8
	11/22/2010 12:11:49	Running ccb (29)	NAH	Analyst	S_Ti,Sn,W,Sr,Li 3(v8
	11/22/2010 12:16:39	Running l873345 (64)	NAH	Analyst	S_Ti,Sn,W,Sr,Li 3(v8
	11/22/2010 12:21:27	Running dup873345 (65)	NAH	Analyst	S_Ti,Sn,W,Sr,Li 3(v8
	11/22/2010 12:26:12	Running msw873345 (66)	NAH	Analyst	S_Ti,Sn,W,Sr,Li 3(v8
	11/22/2010 12:28:32	Closing will close the method and all associated samples.	NAH	Analyst	
	11/22/2010 12:30:54	Running msdw873345 (67)	NAH	Analyst	S_Ti,Sn,W,Sr,Li 3(v8
	11/22/2010 12:35:35	Running pdsw873345 (68)	NAH	Analyst	S_Ti,Sn,W,Sr,Li 3(v8
	11/22/2010 12:40:20	Running ccv (28)	NAH	Analyst	S_Ti,Sn,W,Sr,Li 3(v8
	11/22/2010 12:45:05	Running ccb (29)	NAH	Analyst	S_Ti,Sn,W,Sr,Li 3(v8
	11/22/2010 12:49:53	Plasma off	NAH	iTEVA Control Center	
	11/22/2010 12:49:53	Plasma extinguished successfully	NAH	Analyst	
	11/22/2010 12:49:56	Autosampler Run Completed	NAH	Analyst	S_Ti,Sn,W,Sr,Li 3(v8
	11/23/2010 11:34:01	iTEVA loaded	NAH	iTEVA Control Center	
	11/23/2010 11:34:19	Connected to instrument 20082101	NAH	iTEVA Control Center	
	11/23/2010 12:50:45	iTEVA loaded	NAH	iTEVA Control Center	
	11/23/2010 12:51:04	Connected to instrument 20082101	NAH	iTEVA Control Center	
	11/29/2010 07:20:38	Plasma On	NAH	iTEVA Control Center	

Type	Date/Time	Message	User name	Application	Sequence Name
	11/29/2010 07:20:43	Plasma ignition successful	NAH	Analyst	
	11/29/2010 07:21:22	D33534 - Debug:Wavelength check : x = -1.835, y =0.875	NAH	Analyst	
	11/29/2010 14:31:58	Autosampler Run Started	NAH	Analyst	
	11/29/2010 14:31:58	Sequence Started	NAH	Analyst	S_Sodium and Pota
	11/29/2010 14:32:42	D33534 - Debug:Wavelength check : x = -1.780, y =0.761	NAH	Analyst	
	11/29/2010 14:33:05	Running Blank (1)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 14:35:43	Running CalibStd-0.5 (2)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 14:38:10	Running CalibStd-1.0 (3)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 14:40:37	Running CalibStd-5.0 (4)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 14:43:03	Running CalibStd-10.0 (5)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 14:45:30	Running CalibStd-50 (6)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 14:47:58	Running CalibStd-100 (7)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 14:50:25	Running CalibStd-200 (8)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 14:52:51	Running CalibStd-500 (9)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 14:55:32	Running icv (10)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 14:58:00	Running icb (11)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 15:00:27	Running mrl (16)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 15:02:53	Running icsa (12)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 15:05:36	Running icsab (13)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 15:08:16	Running 872775 (1)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 15:10:41	Running lcss35548 (2)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 15:13:08	Running mbs35548 (3)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 15:15:36	Running 874843 (4)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 15:18:07	Running 874851 (5)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 15:20:29	Running 874852 (6)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 15:22:51	Running 874853 (7)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 15:25:14	Running 874854 (8)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 15:27:38	Running 874855 (9)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 15:30:01	Running l874855 (10)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 15:32:26	Running ccv (14)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 15:34:52	Running ccb (15)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 15:37:20	Running dup874855 (11)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 15:39:44	Running mss874855 (12)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 15:42:17	Running msds874855 (13)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 15:44:48	Running pdss874855 (14)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 15:47:14	Running 874856 (15)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 15:49:36	Running 874857 (16)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 15:51:59	Running 874858 (17)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 15:54:22	Running 874861 (18)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 15:56:45	Running 874862 (19)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 15:59:08	Running lcss35547 (20)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 16:01:42	Running ccv (14)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 16:04:09	Running ccb (15)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 16:06:37	Running mbs35547 (21)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 16:09:06	Running 873464 (22)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 16:11:57	Running l873464 (23)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 16:14:32	Running dup873464 (24)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 16:17:22	Running mss873464 (25)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 16:20:11	Running msds873464 (26)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 16:23:01	Running pdss873464 (27)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 16:25:50	Running 873465 (28)	NAH	Analyst	S_Sodium and Pota

Type	Date/Time	Message	User name	Application	Sequence Name
	11/29/2010 16:28:40	Running 873466 (29)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 16:31:30	Running 873467 (30)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 16:34:20	Running ccv (14)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 16:36:47	Running ccb (15)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 16:39:15	Running 873468 (31)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 16:42:04	Running 873469 (32)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 16:44:54	Running 873470 (33)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 16:47:21	Running 873471 (34)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 16:50:11	Running 873473 (35)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 16:53:03	Running 873638 (36)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 16:55:53	Running 873639 (37)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 16:58:44	Running 873640 (38)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 17:01:34	Running 873641 (39)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 17:04:25	Running ccv (14)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 17:06:52	Running ccb (15)	NAH	Analyst	S_Sodium and Pota
	11/29/2010 17:09:16	Sequence Started	NAH	Analyst	S_Ti,Sn,W,Sr,Li 3(v8
	11/29/2010 17:10:02	D33534 - Debug:Wavelength check : x = -1.707, y =0.763	NAH	Analyst	
	11/29/2010 17:10:26	Running Blank (17)	NAH	Analyst	S_Ti,Sn,W,Sr,Li 3(v8
	11/29/2010 17:15:13	Running 1 (18)	NAH	Analyst	S_Ti,Sn,W,Sr,Li 3(v8
	11/29/2010 17:20:01	Running 10 (19)	NAH	Analyst	S_Ti,Sn,W,Sr,Li 3(v8
	11/29/2010 17:24:50	Running 100 (20)	NAH	Analyst	S_Ti,Sn,W,Sr,Li 3(v8
	11/29/2010 17:29:39	Running 1000 (21)	NAH	Analyst	S_Ti,Sn,W,Sr,Li 3(v8
	11/29/2010 17:34:22	Running 10000 (22)	NAH	Analyst	S_Ti,Sn,W,Sr,Li 3(v8
	11/29/2010 17:39:00	Running 500000 (23)	NAH	Analyst	S_Ti,Sn,W,Sr,Li 3(v8
	11/29/2010 17:43:44	Running icv (24)	NAH	Analyst	S_Ti,Sn,W,Sr,Li 3(v8
	11/29/2010 17:48:28	Running icb (25)	NAH	Analyst	S_Ti,Sn,W,Sr,Li 3(v8
	11/29/2010 17:53:16	Running icsa (26)	NAH	Analyst	S_Ti,Sn,W,Sr,Li 3(v8
	11/29/2010 17:58:01	Running icsab (27)	NAH	Analyst	S_Ti,Sn,W,Sr,Li 3(v8
	11/29/2010 18:02:41	Running pdsw873345 (40)	NAH	Analyst	S_Ti,Sn,W,Sr,Li 3(v8
	11/29/2010 18:07:26	Running ccv (28)	NAH	Analyst	S_Ti,Sn,W,Sr,Li 3(v8
	11/29/2010 18:12:11	Running ccb (29)	NAH	Analyst	S_Ti,Sn,W,Sr,Li 3(v8
	11/29/2010 18:16:59	Plasma off	NAH	iTEVA Control Center	
	11/29/2010 18:16:59	Plasma extinguished successfully	NAH	Analyst	
	11/29/2010 18:17:01	Autosampler Run Completed	NAH	Analyst	S_Ti,Sn,W,Sr,Li 3(v8
	11/30/2010 07:03:26	Plasma On	NAH	iTEVA Control Center	
	11/30/2010 07:03:30	Plasma ignition successful	NAH	Analyst	
	11/30/2010 07:04:09	D33534 - Debug:Wavelength check : x = -1.630, y =0.957	NAH	Analyst	
	11/30/2010 14:48:31	Plasma extinguished successfully	NAH	Analyst	
	11/30/2010 14:48:31	Plasma off	NAH	iTEVA Control Center	
	12/01/2010 09:06:54	Plasma On	NAH	iTEVA Control Center	
	12/01/2010 09:06:57	Plasma ignition successful	NAH	Analyst	
	12/01/2010 09:07:36	D33534 - Debug:Wavelength check : x = -1.744, y =0.901	NAH	Analyst	
	12/01/2010 14:36:10	Plasma extinguished successfully	NAH	Analyst	
	12/01/2010 14:36:10	Plasma off	NAH	iTEVA Control Center	
	12/03/2010 06:32:35	Plasma On	NAH	iTEVA Control Center	
	12/03/2010 06:32:38	Plasma ignition successful	NAH	Analyst	
	12/03/2010 06:33:17	D33534 - Debug:Wavelength check : x = -2.039, y =0.822	NAH	Analyst	
	12/03/2010 13:53:21	Sequence Started	NAH	Analyst	S_Sodium and Pota
	12/03/2010 13:53:21	Autosampler Run Started	NAH	Analyst	
	12/03/2010 13:54:05	D33534 - Debug:Wavelength check : x = -2.025, y =0.786	NAH	Analyst	
	12/03/2010 13:54:28	Running Blank (1)	NAH	Analyst	S_Sodium and Pota

Type	Date/Time	Message	User name	Application	Sequence Name
	12/03/2010 13:57:06	Running CalibStd-0.5 (2)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 13:59:33	Running CalibStd-1.0 (3)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 14:02:00	Running CalibStd-5.0 (4)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 14:04:26	Running CalibStd-10.0 (5)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 14:06:53	Running CalibStd-50 (6)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 14:09:21	Running CalibStd-100 (7)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 14:11:48	Running CalibStd-200 (8)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 14:14:13	Running CalibStd-500 (9)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 14:16:55	Running icv (10)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 14:19:21	Running icb (11)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 14:21:48	Running mrl (16)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 14:24:15	Running icsa (12)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 14:26:57	Running icsab (13)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 14:29:38	Running LCSS35622 (1)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 14:32:05	Running MBS35622 (2)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 14:34:33	Running 873401 (3)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 14:36:57	Running 873402 (4)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 14:39:20	Running lcss35621 (5)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 14:41:47	Running mbs35621 (6)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 14:44:11	Running 876763 (7)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 14:46:35	Running 876771 (8)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 14:49:07	Running 876772 (9)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 14:51:31	Running 876773 (10)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 14:53:56	Running ccv (14)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 14:56:23	Running ccb (15)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 14:58:51	Running 876774 (11)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 15:01:16	Running 876775 (12)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 15:03:40	Running 876776 (13)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 15:06:03	Running 876777 (14)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 15:08:27	Running l876777 (15)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 15:10:50	Running dup876777 (16)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 15:13:13	Running mss876777 (17)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 15:15:44	Running msds876777 (18)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 15:18:16	Running pdss876777 (19)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 15:20:40	Running 876778 (20)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 15:23:03	Running ccv (14)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 15:25:30	Running ccb (15)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 15:27:58	Running 876779 (21)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 15:30:22	Running 876780 (22)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 15:32:47	Running lcss35624 (23)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 15:35:19	Running mbw35624 (24)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 15:37:48	Running 870188 (25)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 15:40:12	Running 870189 (26)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 15:42:36	Running l870189 (27)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 15:45:00	Running dup870189 (28)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 15:47:24	Running mss870189 (29)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 15:49:56	Running msds870189 (30)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 15:52:28	Running ccv (14)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 15:54:56	Running ccb (15)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 15:57:24	Running pdss870189 (31)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 15:59:47	Running 870190 (32)	NAH	Analyst	S_Sodium and Pota

Type	Date/Time	Message	User name	Application	Sequence Name
	12/03/2010 16:02:11	Running 870191 (33)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 16:04:44	Running 870192 (34)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 16:07:17	Running 870193 (35)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 16:09:42	Running 870194 (36)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 16:12:07	Running 870195 (37)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 16:14:40	Running 870196 (38)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 16:17:12	Running 870197 (39)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 16:19:51	Running 870208 (40)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 16:22:15	Running ccv (14)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 16:24:42	Running ccb (15)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 16:27:10	Running 870209 (41)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 16:29:42	Running 870210 (42)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 16:32:15	Running 870211 (43)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 16:34:48	Running 870212 (44)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 16:37:12	Running 870213 (45)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 16:39:36	Running 870214 (46)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 16:42:09	Running 870215 (47)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 16:44:43	Running 870216 (48)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 16:47:16	Running lcss35623 (49)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 16:49:41	Running mbs35623 (50)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 16:52:11	Running ccv (14)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 16:54:38	Running ccb (15)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 16:57:05	Running 869552 (51)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 16:59:39	Running l869552 (52)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 17:02:04	Running dup869552 (53)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 17:04:37	Running mss869552 (54)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 17:07:09	Running msds869552 (55)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 17:09:41	Running pdss869552 (56)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 17:12:14	Running 869553 (57)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 17:14:44	Running 869554 (58)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 17:17:17	Running 869555 (59)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 17:19:51	Running 869556 (60)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 17:22:24	Running ccv (14)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 17:24:51	Running ccb (15)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 17:27:19	Running LCSS35589 (61)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 17:29:51	Running mbs35589 (62)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 17:32:20	Running 874473 (63)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 17:34:54	Running l874473 (64)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 17:37:19	Running dup874473 (65)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 17:39:52	Running mss874473 (66)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 17:42:26	Running msds874473 (67)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 17:44:59	Running pdss874473 (68)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 17:47:32	Running 874474 (69)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 17:50:05	Running 874475 (70)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 17:52:39	Running ccv (14)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 17:55:06	Running ccb (15)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 17:57:34	Running 874476 (71)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 18:00:08	Running 874477 (72)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 18:02:42	Running 874478 (73)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 18:05:15	Running 874479 (74)	NAH	Analyst	S_Sodium and Pota
	12/03/2010 18:07:49	Running 874480 (75)	NAH	Analyst	S_Sodium and Pota

#M9979 GdE
12/08/10

GFAA Soil LOD Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	LOD (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	0.12	M9608	1000	0.006
Pb	0.8	M9521	**10000**	0.004
Sb	1.2	M9610	1000	0.06
As	3.2	M9609	1000	0.16
Se	3.2	M9611	1000	0.16
Tl	1	M9922	1000	0.05

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

EXPIRES: 04-30-11

#M9980 GdE
12/08/10

GFAA Soil LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	LOQ (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	0.42	M9608	1000	0.021
Pb	1.3	M9521	**10000**	0.0065
Sb	1.9	M9610	1000	0.095
As	5.4	M9609	1000	0.27
Se	5.2	M9611	1000	0.26
Tl	1.6	M9922	1000	0.08

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

EXPIRES: 04-30-11

#M9981 TCLP Extraction Fluid #1: Fill a 20L carboy w 11.9L D.I. H2O. Add 11.4ml Glacial Acetic Acid (AB. 5146) and 128.6ml 10N NaOH (#M9636) Dilute to 20L w DI. H2O and mix pH = 4.93 ± 0.05
12/09/10 15:15
Exp: 12/09/11

#M9977 GE 12/08/10

GFAA Water LOD Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	0.04	M9608	1000	0.002
Pb	0.8	M9521	**10000**	0.004
Sb	1.8	M9610	1000	0.09
As	1.2	M9609	1000	0.06
Se	3.2	M9611	1000	0.16
Tl	0.8	M9922	1000	0.04

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

EXPIRES: 04-30-11

#M9978 GE 12/08/10

GFAA Water LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

LOQ 12/09/10 GE

Analyte	~~MDL~~ (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	0.26	M9608	1000	0.013
Pb	1.3	M9521	**10000**	0.0065
Sb	3.1	M9610	1000	0.155
As	1.8	M9609	1000	0.09
Se	5.2	M9611	1000	0.26
Tl	1.6	M9922	1000	0.08

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

EXPIRES: 04-30-11

M9975 LOD 3050
12-8-10

3050 LOD Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	0.68	M9608	1000	0.034
Al	1.6	M9866	**10000**	0.008
Ba	0.32	M9518	1000	0.016
Be	0.16	M9930	1000	0.008
Cd	0.24	M9620	1000	0.012
Co	0.6	M9928	1000	0.03
Cr	0.76	M9519	**10000**	0.0038
Cu	2.4	M9522	**10000**	0.012
Mg	4.8	M9719	**10000**	0.024
Mn	0.8	M9520	**10000**	0.004
Mo	0.56	M9931	1000	0.028
Ni	0.72	M9927	1000	0.036
Pb	1.6	M9521	**10000**	0.008
Sb	3.2	M9610	1000	0.16
V	0.44	M9612	1000	0.022
Zn	1.6	M9718	**10000**	0.008
K	440	M9863	**10000**	2.2
Na	160	M9932	**10000**	0.8
As	5.2	M9609	1000	0.26
Ca	6	M9865	**10000**	0.03
Fe	12	M9864	**10000**	0.06
Se	2.8	M9611	1000	0.14
Tl	1.6	M9922	1000	0.08

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

M9976 LOQ 3050
12-8-10

3050 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	2.24	M9608	1000	0.112
Al	4.8	M9866	**10000**	0.024
Ba	1.08	M9518	1000	0.054
Be	0.48	M9930	1000	0.024
Cd	0.84	M9620	1000	0.042
Co	1.96	M9928	1000	0.098
Cr	2.52	M9519	**10000**	0.0126
Cu	8	M9522	**10000**	0.04
Mg	16	M9719	**10000**	0.08
Mn	2	M9520	**10000**	0.01
Mo	1.92	M9931	1000	0.096
Ni	2.44	M9927	1000	0.122
Pb	5.6	M9521	**10000**	0.028
Sb	10.8	M9610	1000	0.54
V	1.36	M9612	1000	0.068
Zn	4.8	M9718	**10000**	0.024
K	1440	M9863	**10000**	7.2
Na	520	M9932	**10000**	2.6
As	18	M9609	1000	0.9
Ca	20	M9865	**10000**	0.1
Fe	40	M9864	**10000**	0.2
Se	16.8	M9611	1000	0.84
Tl	5.6	M9922	1000	0.28

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

184
#m9971
12/8/10 LOD3050 B, Si

3050 LOD Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
B	18	m9915	1000	0.9
Si	16	m9628	1000	0.8

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

EXPIRES

#M9972 LOQ 3050 B, Si
12/8/10

3050 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
B	26	m9915	1000	1.3
Si	56	m9628	1000	2.8

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

EXPIRES

#M9973
12-8-10
LOD 3010

3010 LOD Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	1	M9608	1000	0.05
Al	4	M9866	10000	0.02
Ba	0.26	M9518	1000	0.013
Be	0.13	M9930	1000	0.0065
Cd	0.11	M9620	1000	0.0055
Co	1.3	M9928	1000	0.065
Cr	0.7	M9519	10000	0.0035
Cu	1.2	M9522	10000	0.006
Mg	3	M9719	10000	0.015
Mn	0.7	M9520	10000	0.0035
Mo	0.4	M9931	1000	0.02
Ni	0.6	M9927	1000	0.03
Pb	1.5	M9521	10000	0.0075
Sb	4	M9610	1000	0.2
V	0.5	M9612	1000	0.025
Zn	1.8	M9718	10000	0.009
K	300	M9863	10000	1.5
Na	100	M9932	10000	0.5
As	4	M9609	1000	0.2
Ca	15	M9865	10000	0.075
Fe	9	M9864	10000	0.045
Se	2.3	M9611	1000	0.115
Tl	1.6	M9922	1000	0.08

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

#M9974
12-8-10A
LOQ 3010

3010 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	2	M9608	1000	0.1
Al	26	M9866	10000	0.13
Ba	1.8	M9518	1000	0.09
Be	0.86	M9930	1000	0.043
Cd	0.4	M9620	1000	0.02
Co	4.3	M9928	1000	0.215
Cr	2	M9519	10000	0.01
Cu	3.8	M9522	10000	0.019
Mg	11	M9719	10000	0.055
Mn	2	M9520	10000	0.01
Mo	1.2	M9931	1000	0.06
Ni	4.2	M9927	1000	0.21
Pb	4.9	M9521	10000	0.0245
Sb	16	M9610	1000	0.8
V	1.7	M9612	1000	0.085
Zn	5.9	M9718	10000	0.0295
K	900	M9863	10000	4.5
Na	340	M9932	10000	1.7
As	13	M9609	1000	0.65
Ca	100	M9865	10000	0.5
Fe	29	M9864	10000	0.145
Se	14	M9611	1000	0.7
Tl	5	M9922	1000	0.25

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

#M9962 12/07/10 AmA — Hg Working Stds: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M9963 12/07/10 AmA — Hg Alt Source Working Std: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M9964 12/07/10 AmA — Hg ICV / LCSW (0.2% HNO3, HCl)
3.0ml of 100ug/L Hg (#M9963) into 100ml = 3.0ug/L Hg

#M9965 12/07/10 AmA — Hg CCV (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

H2O, fume

#M9966 12/07/10 AmA — Hg MRL: (0.2% HNO3, HCl)
0.2ml of 100ug/L Hg (#M 9963) into 100ml = 0.2ug/L Hg

14ml L

#M9967 12/07/10 AmA — Hg Aqua Regia Reagent:
"Carefully" in hood, mix 3 parts HCl (AB: 514) with 1part HNO3 (AB: 515)

1. 2. H_2O

#M9968 12/08/10 GG — Stannous Chloride Reagent: Into a 1000 mL vol. flask, dissolve 100g Stannous Chloride (#M9785F) in 70 mL HCL (AB·514). Bring up to volume with D.I. H_2O. Exp. 12-08-11

14ml L O

#M9969 12-8-10 3010 LOD B, Si

3010 LOD Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
B	10	m9915	1000	0.5
Si	36	m9628	1000	1.8

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard. EXPIRES

cial

#M9970 12-8-10 3010 LOQ B, Si

3010 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
B	18	m9915	1000	0.9
Si	118	m9628	1000	5.9

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard. EXPIRES

#M9954 12/02/10 Hg 1000 mg/L Spex CertiPrep Lot No. CL5-49Hg
GVE Expires 11-30-11

#M9955 12/02/10 Interferents A Spex CertiPrep Lot No. 42-6AS
GVE Expires: 11-30-11

#M9956 12/02/10 Si 1000 mg/L Spex CertiPrep Lot No. 15-172S1
GVE Expires: 11-30-11

#M9957 12/02/10 Magnesium Nitrate Matrix Modifier Solution (20,000 mg/L Mg)
GVE Spex CertiPrep Lot No. 1-169MG2, Expires 11-30-11

#M9958 12/02/10 1N HCl for TCLP: Into a 1L vol. flask, partially filled with Milli-Q H_2O, add 83mL of conc. HCl (AB.) and bring up to volume with milli-Q H_2O.
LSF
Exp: 12/02/11

#M9959 12/02/10 TCLP Extraction Fluid #1: Fill a 20L carboy w/ 11L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB.468) and 128.6mL 10N NaOH (#M96316) Dilute to 20L w/ D.I. H_2O and mix. pH = 4.93 ± 0.05
15F
Exp: 12/02/11

#M9960 12/02/10 TCLP Extraction Fluid #1: Fill a 20L carboy w/ 11L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB. 516) and 128.6mL 10N NaOH (#M96316) Dilute to 20L w/ D.I. H_2O and mix pH = 4.93 ± 0.05
15F
Exp: 12/02/11

#M9961 12/03/10 TCLP Extraction Fluid #2: ~~Fill~~ 12/03/10 GVE Into a 20L carboy, pipet 114mL Glacial Acetic Acid (~~#~~ 12/03/10 GVE AB·516). Bring up to 20L with D.I. H_2O. pH = 2.88 ± 0.05
GVE Exp. 12-03-11

M9962 12/
AMA

M9963 12/07
AMA

M9964 12/07
AMA

M9965 12/0
AMA

M9966 12/0
AMA

M9967 12/0
AMA

M9968 12/
GVE

M9969

M99

#M9943 11/29/10 TCLP Extraction Fluid #2: Into a 20L Carboy, pipet 114mL of Glacial Acetic Acid (AB·499). Bring up to 20L with D.I. H_2O. pH = 2.88 ± 0.05
Exp. 11-29-11

#M9944 11/29/10 Potassium Permanganate Soln: 50g Potassium Permanganate (#M8969) dissolved into 1000mL D.I. H_2O.
GJE Exp. 05/29/11

#M9945 11/29/10 GJE	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9946 11/29/10 GJE	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9947 11/29/10 GJE	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 9946) into 100ml = 3.0ug/L Hg
#M9948 11/29/10 GJE	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9949 11/29/10 GJE	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 9946) into 100ml = 0.2ug/L Hg
#M9950 GJE 11/29/10 11/29/10 GJE	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 514) with 1part HNO3 (AB: 515)

#M9951 Tclp Extraction fluid #1 - Fill a 20L carboy with 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB·499) and 128.6mL 10N NaOH (#M9744). Dilute to 20L with D.I. H_2O and mix. The pH = 4.93 ± 0.05.

#M9952 Tclp Extraction fluid #2 - Into a 20L carboy, pipet 114mL of Glacial Acetic Acid (AB·499). Bring up to 20L with D.I. H_2O. pH = 2.88 ± 0.05.

#M9953 TCLP Extraction Fluid #2: Into a 20L Carboy, pipet 114mL Glacial Acetic Acid (AB·499). Bring up to 20L with D.I. H_2O. pH = 2.88 ± 0.05
12/01/10 GJE Exp. 12/01/11

#M9930 11/23/10 Be 1000 mg/L Spex CertiPrep Lot No. 15-127BE Exp. 11-15-11
GvE

#M9931 11/23/10 Mo 1000 mg/L Spex CertiPrep Lot No. 15-110MO Exp. 11-15-11
GvE

#M9932 11/23/10 Na 10,000 mg/L Spex CertiPrep Lot No. AE12-119NA Exp. 11-15-11
GvE

#M9933 11/23/10 W 1000 µg/mL SCP Science Lot No. SC0301406 Exp. 08/2012
GvE

#M9934 11/28/10 Spike Sample Standard 1 Lot No. 42-80As Exp. 11-15-11
GvE

#M9935 11/23/10 AmA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9936 11/23/10 AmA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9937 11/23/10 AmA	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9936) into 100ml = 3.0ug/L Hg
#M9938 11/23/10 AmA	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9939 11/23/10 AmA	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9936) into 100ml = 0.2ug/L Hg
#M9940 11/23/10 AmA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 514) with 1part HNO3 (AB: 515)

#M9941 11/23/10 AmA Nacl Hydroxylamine Sulfate Reagent: Dissolve 60g Nacl (#M9574(1)) and 60g Hydroxylamine Sulfate (#M9831) in 500mL Milli-Q H_2O. Exp. 05/23/11

#9942 11/24/10 GvE Stannous Chloride Reagent: Into a 1000mL vol. flask, dissolve 100g Stannous Chloride (#M9785b) in 70mL HCl (AB.514). Bring up to volume with DI H_2O. Exp. 11-24-11

#M9943

#M9944 Gv

#M9945 11 GvE

#M9946 GvE

#M9947 GvE

#M9948 11 GvE

#M9949 11 GvE

#M9950 GvE 11/23/10 GvE

#M9951 Tc

#M9952 TCl

#M9953 TCl 01/01/10 GvE

#M9916 10/16/10 AmA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9917 11/16/10 AmA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9918 11/16/10 AmA	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9917) into 100ml = 3.0ug/L Hg
#M9919 11/16/10 AmA	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9920 11/16/10 AmA	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9917) into 100ml = 0.2ug/L Hg
#M9921 11/16/10 AmA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 508) with 1part HNO3 (AB: 511)

#M9922 11/23/10 Tl 1000 mg/L Spex Certiprep Lot No. 16-113TL Exp. 11-15-11
GvE

Stannous
38).
11-10-11

#M9923 11/23/10 Ti 1000 mg/L Spex CertiPrep Lot No. 16-128TI Exp. 11-15-11
GvE

2 (200 NTU)

#M9924 11/23/10 GvE 11-23-10 W 1000 mg/L Spex CertiPrep Lot No. 16-117W Exp. 11-15-11
GvE

NTU

NTU

#M9925 11/23/10 Sn 1000 mg/L Spex CertiPrep Lot No. CL5-45SN Exp. 11-15-11
GvE

#M9926 11/23/10 Sr 1000 mg/L Spex CertiPrep Lot No. 16-71SR Exp. 11-15-11
GvE

#M9927 11/23/10 Ni 1000 mg/L Spex CertiPrep Lot No. 15-121NI Exp. 11-15-11
GvE

#M9928 11/23/10 Co 1000 mg/L Spex CertiPrep Lot No. CL5-52CO Exp. 11-15-11
GvE

#M9929 11/23/10 Li 1000 mg/L Spex CertiPrep Lot No. 16-61LI Exp. 11-15-11
GvE

#M9906 11/09/10 AMA — Potassium Permanganate Sol'n: 50g Potassium Permanganate (#M8969) dissolved into 1000mL D.I. H_2O. Exp. 05/09/11

M9907 11/09/10 AMA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
M9908 11/09/10 AMA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
M9909 11/09/10 AMA	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9908) into 100ml = 3.0ug/L Hg
M9910 11/09/10 AMA	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
M9911 11/09/10 AMA	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9908) into 100ml = 0.2ug/L Hg
M9912 11/09/10 AMA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 508) with 1part HNO3 (AB: 511)

#M9913 11/10/10 GJE — Stannous Chloride Reagent: Into a 1000 mL Vol. flask, dissolve 100g Stannous Chloride (#M97856) in 70mL HCl (AB-508). Bring up to volume with D.I. H_2O. Exp. 11-10-11

#M9914 11/12/10 GJE — Turbidity Working Stds: Into 20 mLs pipet from #M8730 (200 NTU)
Gel Ex Stds:
4.95 — 2.0mL into 18mL D.I H_2O = 20 NTU
58.3 — 10mL into 10mL D.I. H_2O = 100 NTU
539 — 20mL into 0mL D.I H_2O = 200 NTU
(Exp. 12/10)

#M9915 11/12/10 GJE — Silicon Standard 1000-ppm Fisher Chemical Lot No. 102251
Expires 04/12

#M9916 11/16/10 AMA — Hg Wo (0.2% H

#M9917 11/16/10 AMA — Hg Alt S (0.2% H

#M9918 11/16/10 AMA — Hg ICV (0.2% H

#M9919 11/16/10 AMA — Hg CCV (0.2% H

#M9920 11/16/10 AMA — Hg MRL (0.2% H

#M9921 11/16/10 AMA — Hg Aqu

#M9922 11/23/10 GJE — Tl

#M9923 11/23/10 GJE — Ti

#M9924 11/23/10 GJE (GJE 11-23-10) — W

#M9925 11/23/10 GJE — Sn

#M9926 11/23/10 GJE — Sr

#M9927 11/23/10 GJE — Ni

#M9928 11/23/10 — Co

#M9896 11/02/10 AmA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9897 11/02/10 AmA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9898 11/02/10 AmA	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9897) into 100ml = 3.0ug/L Hg
#M9899 11/02/10 AmA	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9900 11/02/10 AmA	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9897) into 100ml = 0.2ug/L Hg
#M9901 11/02/10 AmA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 508) with 1part HNO3 (AB: 511)

#M9902 11/07/10 CEL TCLP Extraction Fluid #1: Fill a 20L carboy w/ 11.9L D.I. H_2O. Add 114ml Glacial Acetic Acid (AB: 968) and 128.6ml 10N NaOH (#M9636) Dilute to 20L w/ D.I. H_2O 11/07/10 AmA and mix. pH = 4.93 ± 0.05

EXP: 11/07/11

#M9903 11/08/10 GE Potassium Permanganate: ~~50g~~ 11-08-10 ONE Fisher Scientific Lot No. 102677

#M9904 11/8/10 JA

Working Standards for Sodium and Potassium; into seven, 250 ml volumetric flasks pipette from #M9661 and #M9660.

For the 0.5 mg/L std– 0.1 mls each
1.0 mg/L std – 0.2 mls each
5.0 mg/L std – 1.0 mls each
10.0 mg/L std – 2.0 mls each
50.0 mg/L std - 10.0 mls each
100 mg/L std -20.0 mls each also used for Continuing Calibration Standard (CCV)
200 mg/L std -40.0 mls each
Bring up to mark with DI H2O. expires June 2011.

#M9905 11-8-10 JA

Initial Calibration Standard (ICV) Into 500 ml volumetric pipette 5 mls of #M9863 and #M9280 and bring up to mark with DI H2O. expires Dec 2010

#M9884 10/19/10 AMA Potassium Permanganate Soln: 50g Potassium Permanganate (#M8969) dissolved into 1000mL D.I. H_2O. Exp. 04/19/11

#M9885 10/26/10 AMA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9886 10/26/10 AMA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9887 10/26/10 AMA	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9886) into 100ml = 3.0ug/L Hg
#M9888 10/26/10 AMA	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9889 10/26/10 AMA	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9886) into 100ml = 0.2ug/L Hg
#M9890 10/26/10 AMA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 508) with 1part HNO3 (AB: 511)

#M9891 10/27/10 GAE Stannous Chloride Reagent - Into a 1000mL Vol. Flask, dissolve 100g Stannous Chloride (#M9785) in 70mL HCl (AB-508). Bring up to volume with D.I. H_2O. Exp. 10-27-11

#M9892 11/02/10 TSV TCLP Extraction Fluid #1: Fill a 20L carboy w/19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB-4168) and 128.6mL 10N NaOH (#M9836) Dilute to 20L w/D.I. H_2O and mix. pH = 4.93 ± 0.05 11/02/10 GSF Exp: 11/02/11

#M9893 11/02/10 AMA Potassium Persulfate: 50g Potassium Persulfate (#M9814) dissolved into 1000mL D.I. H_2O. Exp. 05/02/11

#M9894 11/02/10 AMA Potassium Permanganate Soln: 50g Potassium Permanganate (#M8969) dissolved into 1000mL D.I. H_2O. Exp. 05/02/11

#M9895 11/02/10 AMA NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M9574(A)) and 60g Hydroxylamine sulfate (#M9831) in 500mL Milli-Q H_2O. Exp 05/02/11

#M9870 10/12/10 AmA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9871 10/12/10 AmA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9872 10/12/10 AmA	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9871) into 100ml = 3.0ug/L Hg
#M9873 10/12/10 AmA	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9874 10/12/10 AmA	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9871) into 100ml = 0.2ug/L Hg
#M9875 10/12/10 AmA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 508) with 1part HNO3 (AB: 511)

#M9876 10/12/10 AmA NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M9082(b)) and 60g Hydroxylamine Sulfate (#M9831) in 500mL Milli-Q H_2O. Exp. 04/12/11

#M9877 10/19/10 GtE TCLP Extraction Fluid #1: Fill a 20L Carboy w/19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB-499) and 128.6mL 10N NaOH (#M9743). Dilute to 20L w/D.I. H_2O and mix. pH. 4.93 ± 0.05. (Exp. 10/19/11)

#M9878 10/19/10 AmA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9879 10/19/10 AmA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9880 10/19/10 AmA	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9879) into 100ml = 3.0ug/L Hg
#M9881 10/19/10 AmA	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9882 10/19/10 AmA	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9879) into 100ml = 0.2ug/L Hg
#M9883 10/19/10 AmA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 508) with 1part HNO3 (AB: 511)

#M9860 10/05/10 AmA Potassium Permanganate Soln: 50g Potassium Permanganate (#M8969) dissolved into 1000mL ~~Milli-Q~~ D.I H_2O. Exp. 04/05/11 10/05/10 AmA

#M9861 10/05/10 AmA ~~Make~~ NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M9083(6)) and 60g Hydroxylamine Sulfate (#M9831) in 500mL Milli-Q H_2O. Exp. 04/05/11 10/05/10 AmA

#M9862 10/06/10 CAC Stannous Chloride Reagent: Into a 1000mL vol flask, dissolve 100g Stannous Chloride (#M9785a) in 70mL HCL (AB-508). Bring up to volume with D.I. H_2O. Exp. 10-06-11

#M9863 10-11-10 AA Potassium 10,000 mg/L Spex Certiprep (lot # ~~AE12-99K~~

#M9864 10-11-10 AA Iron 10,000 mg/L ~~Spex Certiprep~~ lot # PLFe2-3X

#M9865 10-11-10 AA Calcium 10,000 mg/L Spex Certiprep lot # PLCa2-3X

#M9866 10-11-10 AA Aluminum 10,000mg/L Spex Certiprep Lot # AB12-ZZAL

#M9867 10-11-10 AA Boron working Stds & Silicon prep from Stds #M9628 & M9545 into 5, 200 ml Vol flasks

~~5% HNO3~~ AA
~~5% HCL~~ 10-11-10

Bring up to mark with DI H_2O ex 6/11

10 ug/L → .002 mls M9628 & M9545
50 ug/L → .01 mls M9628 & M9545 10-11-10
200 ug/L → .04 mls M9628 & M9545
1000 ug/L → .2 mls M9628 & M9545
2000 ug/L → .4 mls M9628 & M9545
10,000 ug/L → 2.0 mls M9628 & M9545

Al, Fe, Mg, Ca ~~Hardness~~ – 500,000 mg/L use #M9817 500,000 mg/L Std.

#M9868 10-11-10 AA Boron & Silicon ICV/LCSW into 200ml Vol flask pipet 2mls M9816 & .2mls M9448 Bring up to mark with DI H_2O. 10-11-10

~~5% HNO3~~ ex 1/11

#M9869 10-11-10 AA Boron & Silicon CCV into 200 ml Vol. flask pipet 0.1mls M9545 & M9628. Bring up to mark with DI H_2O ex 6/11.

#M9848 09/28/10 Potassium Permanganate soln: 50g Potassium Permanganate (#M8969) dissolved into 1000mL D.I. H_2O. Exp. 03/29/11
AmA

#M9849 09/29/10 Stannous Chloride Reagent: Into a 1000mL vol. flask, dissolve 100g Stannous Chloride (#M9785a) in 70mL HCl (AB508). Bring up to mark with D.I. H_2O. Exp. 09/29/11
GVE

#M9850 9-30-10 ICSAB Into 500 ml vol flask pipet 50mls #M9807, 2.5mls of M9816 & M9815 Bring up to
2% HNO_3
5% HCl
Mark with DI H_2O. ~~ce~~ 10/11.

#M9851 10/04/10 TCLP Extraction Fluid #1: Fill a 20L Carboy w/ 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB.499) and 128.6mL 10N NaOH (#M9743). Dilute to 20L with D.I. H_2O and mix. pH = 4.93 ± 0.05
GVE

#M9852 10/05/10 TCLP Extraction Fluid #1: Fill a 20L Carboy w/ 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB.499) and 128.6mL 10N NaOH (#M9743). Dilute to 20L with D.I. H_2O and mix. pH = 4.93 ± 0.05.
JSP

#M9853 10/05/10 Nickel Nitrate Matrix Modifier Solution Specpure Lot No. 03-16909J Expires Sept. 2011
GVE

#M9854 10/05/10 AmA	Hg Working Stds: (0.2% HNO_3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9855 10/05/10 AmA	Hg Alt Source Working Std: (0.2% HNO_3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9856 10/05/10 AmA	Hg ICV / LCSW (0.2% HNO_3, HCl)	3.0ml of 100ug/L Hg (#M9855) into 100ml = 3.0ug/L Hg
#M9857 10/05/10 AmA	Hg CCV (0.2% HNO_3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9858 10/05/10 AmA	Hg MRL: (0.2% HNO_3, HCl)	0.2ml of 100ug/L Hg (#M9855) into 100ml = 0.2ug/L Hg
#M9859 10/05/10 AmA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 508) with 1part HNO_3 (AB: 509)

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#M9834 09/21/10 LSF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9835 09/21/10 LSF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9836 09/21/10 LSF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 9835) into 100ml = 3.0ug/L Hg
#M9837 09/21/10 LSF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9838 09/21/10 LSF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 9835) into 100ml = 0.2ug/L Hg
#M9839 09/21/10 LSF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 503) with 1part HNO3 (AB: 505)

#M9840 9-23-10 ZL Environmental Express Yttrium 10,000ug/L. Lot# 1018805

#M9841 09/23/10 TCLP Extraction Fluid#1: Fill a 20L Carboy w/19L D.I. H2O. Add 114mL Glacial Acetic Acid (AB.468) and 128.6mL 10N NaOH (#M9636). Dilute to 20L w/D.I. H2O and mix. pH = 4.93 ± 0.05
LSF
Exp: 09/23/11

#M9842 09/28/10 AMA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9843 09/28/10 AMA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9844 09/28/10 AMA	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9843) into 100ml = 3.0ug/L Hg
#M9845 09/28/10 AMA	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9846 09/28/10 AMA	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9843) into 100ml = 0.2ug/L Hg
#M9847 09/28/10 AMA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 508) with 1part HNO3 (AB: 509)

#M9822 09/14/10 3051 Spilling Solution into a 500ml Vol. Flask pipet the following and bring
LSF (1% HNO_3) up to volume with D.I. H_2O.
(Exp: 06-15-11)
2.5ml of 1,000mg/L Ag (#M9608)
2.5ml of 1,000mg/L Cd (#M9620)
0.5ml of 1,000mg/L Sb (#M9610)

s #M9521 (Pb)(ex 4/11)

mls #M9374 (AL)(ex 1/11)

mls #M9374 (AL)(ex 1/11)

#M9823 09/14/10 Potassium Persulfate: 50g Potassium Persulfate (#M9010) dissolved
AmA into 1000ml D.I. H_2O. Exp. 03/14/11

100 mls #M9374 (AL)(ex 1/11)

#M9824 09/14/10 AmA	Hg Working Stds: (0.2% HNO_3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9825 09/14/10 AmA	Hg Alt Source Working Std: (0.2% HNO_3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9826 09/14/10 AmA	Hg ICV / LCSW (0.2% HNO_3, HCl)	3.0ml of 100ug/L Hg (#M9825) into 100ml = 3.0ug/L Hg
#M9827 09/14/10 AmA	Hg CCV (0.2% HNO_3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9828 09/14/10 AmA	Hg MRL: (0.2% HNO_3, HCl)	0.2ml of 100ug/L Hg (#M9825) into 100ml = 0.2ug/L Hg
#M9829 09/14/10 AmA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 503) with 1part HNO_3 (AB: 505)

#M9816,
l
11

pipet the following
th D.I. H_2O.

M9609)
19611)

using and bring up

#M9830 TCLP Soln #2 into 20 liter Carboy pipet 114 mls of Glacial
9-15-10 Acetic Acid. Bring upto 20 liters. ph=2.88
A #AB-499

et the following
h D.I. H_2O.

#M9831 09/16/10 Hydroxylamine Sulfate Fisher Scientific Lot No. 103492 500g
GAE

#M9832 09/21/10 Potassium Permanganate Soln: 50g Potassium permanganate (#M8969)
LSF dissolve into 1,000 mL D.I. H_2O.
Exp: 03/21/11

#M9833 09/21/10 NaCl Hydroxlamine Sulfate Reagent: Dissolve 60g NaCl (#M9082a) and 6og
LSF Hydroxylamine Sulfate (#M9249) in
Exp: 03/21/10 500ml Milli-Q H_2O.

#M9817 9-14-10 ZA
ZA cont...

5000	50 mls #M9816 (ex 8/11) *5mls M9620(Cd) *5mls M9334(Be) ex 4/11 ex 6-11
10,000	100 mls #M9816 (ex 8/11)
100k	10 mls of #M9522 (Cu) (ex 4/11) , 10 mls of #M9520 (Mn)(ex 4/11) , 10 mls of #M9519 (Cr)(ex 4/11), 10 mls #M9521 (Pb)(ex 4/11) 100 mls #M9276 (Zn)(ex 12/10) = 100,000 ug/L
100,000	10 mls of #M9218 (Mg) (ex 10/10) , 10 mls of #M9659 (Fe) (ex 06/11) ,10 mls of #M9373 (Ca)(ex 1/11),10 mls #M9374 (AL)(ex 1/11) into 1000 ml vol flask = 100,000 ug/l std
500,000	50 mls of #M9218 (Mg) (ex 10/10) , 50 mls of #M9659 (Fe) (ex 06/11) ,50 mls of #M9373 (Ca)(ex 1/11),50 mls #M9374 (AL)(ex 1/11) into 1000 ml vol flask = 500,000 ug/l std
1000k	100 mls of #M9218 (Mg) (ex 10/10) , 100 mls of #M9659 (Fe) (ex 6-11) ,100 mls of #M9373 (Ca)(ex 1/11),100 mls #M9374 (AL)(ex 1/11) into 1000 ml vol flask = 1,000,000 ug/l std
	Bring the 1000 ml volumetric up to mark with DI H2O

*ZA 9-15-10

#M9818 Continuing calibration Verification.
ZA 9-14-10
5% HNO3
5% HCL

Continuing Calibration Standard (CCV)

Into a one liter volmetric flask pipet 2.5 mls of # M9815 and #M9816, and 1 ml of M9373, #M9719, #M9374, and ~~#M9659~~ 0.5ml #M9659, 1ml M9815. Bring up to mark with DI H2O
add more
ex Jan 2011

#M9819 GFAA spiking Solution (14.5min.) Into a 200ml Vol. Flask, pipet the following and bring up to volume with D.I. H2O.
(1% HNO3)
09/14/10 CSF (Exp: 06-15-11)
1.0mL of 1000mg/L As (#M9609)
0.2 ml of 1000mg/L Se (#M9611)

#M9820 ICP spiking Solution (7min) Into a 200ml vol. Flask pipet the following and bring up
09/14/10 CSF (1% HNO3) to volume with D.I. H2O.
(Exp: 12-15-10)
4.0mL of 1000mg/L Cr (#M9273)
1mL of 10,000mg/L Pb (#M9521)
10mL of 1,000 mg/L V (#M9612)

#M9821 09/14/10 ICP spiking solution (24min. hold) Into a 25ml Vol. Flask pipet the following
CSF (1% HNO3) and bring up to volume with D.I. H2O.
(Exp: 12-15-10)
0.5mL of 1,000mg/L Be (#M9334)
10.mL of 10,000mg/L Cu (#M9522)
5.0mL of 1,000 mg/L Ni (#M9274)
10.0mL of 10,000 mg/L Zn (#M9718)

#M9809 ICV/LCSW Na, K, ert to 500mL vol flask pipet 50mL #M9616e1 + 50 mL M9616e0. Bring up to mark with DI H_2O. ex 6/30/11
9-7-10 JA

#M9810 GLE Stannous Chloride Reagent: Into a 1000 mL vol. flask, dissolve 100g Stannous Chloride (#M9785a) in 70 mL HCL (AB:503). Bring up to mark with D.I. H_2O. Exp. 09/08/11
09/08/10

#M9811 GLE GFAA Base Std (25µg/L) 1% HNO_3 Pipet 25mL of #M9482 into a 1L Vol. flask and bring up to volume with Mi.li.Q H_2O. Exp. 04-01-11
09/09/10

#M9812 GLE GFAA Alt. Source Std (10µg/L) 1% HNO_3 Pipet 50mL of #M9483 into a 1L Vol flask and bring up to volume with Mi.li.Q H_2O. Exp. 04-01-11
09/09/10

#M9813 GLE GFAA CCV Std. (10µg/L) 1% HNO_3 Pipet 10 mL of #M9482 into a 1L Vol. flask and bring up to volume with Mi.li.Q H_2O, Exp. 04-01-11
09/09/10

#M9814 GLE Potassium Persulfate Fisher Scientific Lot No. 095982 500g
09/09/10

#M9815 JA Custom Assurance Standard Ag, Be, Cd 100 µg/L Lot # 25-77JB ex August 30, 2011. (Spex Certiprep)
9-13-10 JA 9-14-10

#M9816 JA Custom Assurance Std Al, As, B, Ba, Ca, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, Ti, Tl, V, Zn 100mg/L Lot #25-76JB ex August 30, 2011. (Spex Certiprep)
9-14-10

#M9817 ICAP Working Standards
9-14-10 5% HNO_3 5%HCL

Standard name	Pipet the following respectively:
0.25	0.25 mls of standard 100 ug/L into 1000 ml volumetric flask = 0.25 ug/L std
0.5	0.50 mls of standard 100 ug/L into 1000ml volumentric flask= 0.50 ug/L std
1	1.0 mls of standard 100ug/L into 1000 ml volumentrc flask =1.00 ug/L std
5	5.0 mls of standard 100ug/L into 1000 ml volumentrc flask =5.00 ug/L std
10	10.0 mls of standard 100ug/L into 1000 ml volumentrc flask =10.0 ug/L std
20	20.0 mls of standard 100ug/L into 1000 ml volumentrc flask =20.0 ug/L std
50	50.0 mls of standard 100ug/L into 1000 ml volumentrc flask =50.0 ug/L std
100	1.0 mls of #M9815(ex 8/11) and 1.0 mls of #M9816 (ex 8/11) into 1000 ml volumectric flask= 100 ug/L std
500	5.0 mls of #M9815(ex 8/11) and 5.0 mls of #M9816 (ex 8/11) into 1000 ml volumetric flask= 500 ug/L std
1000	10.0 mls of #M9815(ex 8/11) and 10.0 mls of #M9816 (ex 8/11) into 1000 ml volumetric flask= 1000 ug/L std

#M9817 cont...

#M9796 08/24/10 AMA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9797 08/24/10 AMA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9798 08/24/10 AMA	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9797) into 100ml = 3.0ug/L Hg
#M9799 08/24/10 AMA	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9800 08/24/10 AMA	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9797) into 100ml = 0.2ug/L Hg
#M9801 08/24/10 AMA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 503) with 1part HNO3 (AB: 505)

#M9802 08/31/10 Nacl Hydroxylamine Sulfate Reagent - Dissolve 40g NaCl (#M9082(b)) and 40g Hydroxylamine Sulfate (#M9249) in 500mL Milli-Q H_2O. Exp. 02/31/11
AMA

#M9803 09/07/10 GLE	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9804 09/07/10 GLE	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9805 09/07/10 GLE	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9804) into 100ml = 3.0ug/L Hg
#M9806 09/07/10 GLE	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9807 09/07/10 GLE	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9804) into 100ml = 0.2ug/L Hg
#M9808 09/07/10 GLE	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 503) with 1part HNO3 (AB: 505)

#M9785 08/20/10 Tin(II) Chloride Dihydrate Fisher Lot No. 096665
GE

#M9786 08/20/10 Spike Sample Standard 1 Spex CertiPrep Lot No. 41-10AS
GE Exp. 08-15-11

#M9787 08/21/10 TCLP Extraction Fluid #1: Fill a 20L carboy with 19L D.I. H_2O. Add 114 mL
AmA Glacial Acetic Acid (AB: ~~498~~ 499 08/21/10 AmA) and 128.6 mL
10N NaOH (# ~~M9736~~ M9744 08/21/10 AmA). Dilute to 20L with D.I. H_2O
and mix. The pH = 4.93 ± 0.05. Exp. 08/21/11

#M9788 08/23/10 Potassium Permanganate Sol'n: 50g Potassium Permanganate (#M8969)
GE dissolved into 1000 mL D.I. H_2O.
Exp. 02/23/11 08/23/10 GE

#M9789 08/23/10 GE	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9790 08/23/10 GE	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9791 08/23/10 GE	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 9790) into 100ml = 3.0ug/L Hg
#M9792 08/23/10 GE	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9793 08/23/10 GE	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 9790) into 100ml = 0.2ug/L Hg
#M9794 08/23/10 GE	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 503) with 1part HNO3 (AB: 504)

#M9795 08/24/10 Stannous Chloride Reagent: Into a 1000 mL Vol. flask, dissolve 100g
GE Stannous Chloride (#M9405d) in 70 mL
HCL (AB: 503). Bring up to mark with
D.I. H_2O. Exp. 08/24/11.

#M9796 08/31/10 TCLP Extraction Fluid #1: Fill a 20L carboy w 19L D.I. H_2O. Add 114mL Glacial
1SF Exp: 08/31/11 Acetic Acid (AB. 499) and 128.6mL 10N NaOH (#M9745). Dilute
to 20L with D.I. H_2O and mix. pH: 4.93 ± 0.05.

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#M9780

~~#M9770~~ 8-18-10-JA

2nd 8/18/10 LOQ QSM 3050

5% HNO_3 List 2

5% HCl

3050 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	4	M9278	1000	0.2
Sn	3.2	M9279	1000	0.16
Sr	1.52	M9300	1000	0.076
Ti	4.8	M9277	1000	0.24
W	28	M9275	1000	1.4

Expires 12/15/2010

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

#M9781 08/19/10 GFAA LOD Soil Working Std.: Into a partially filled 100 mL vol. flask of D.I. H_2O, pipet the following amounts and then bring up to volume with D.I. H_2O. Expires 01-15-11.
GVE (1% HNO_3)

0.03mL Ag 1,000 mg/L (#M9608) = 300 µg/L Ag
0.8mL As 1,000 mg/L (#M9609) = 8000 µg/L As
0.02mL Pb 10,000 mg/L (#M9521) = 2000 µg/L Pb
0.25mL Tl 1,000 mg/L (#M9333) = 2500 µg/L Tl
0.8mL Se 1,000 mg/L (#M9611) = 8000 µg/L Se
0.3mL Sb 1,000 mg/L (#M9610) = 3000 µg/L Sb

#M9782 08/19/10 GFAA LOD Soil Spike Solution: Into a partially filled 100 mL vol. flask of D.I. H_2O, pipet 1.0mL of #M9781 and then bring up to volume with D.I. H_2O. Expires 01-15-11
GVE (1% HNO_3)

#M9783 08/19/10 GFAA LOQ Soil Working Std.: Into a 100 mL vol. flask, partially filled with D.I. H_2O, pipet the following amounts and then bring up to volume with D.I. H_2O.
GVE (1% HNO_3)

0.205mL Ag 1000 mg/L (#M9608) = 2,050 µg/L Ag
2.7mL As 1000 mg/L (#M9609) = 27,000 µg/L As
0.065mL Pb 10000 mg/L (#M9521) = 6500 µg/L Pb
0.8mL Tl 1000 mg/L (#M9333) = 8000 µg/L Tl
2.6mL Se 1000 mg/L (#M9611) = 26,000 µg/L Se
0.95mL Sb 1000 mg/L (#M9610) = 9500 µg/L Sb

#M9784 08/19/10 GFAA LOQ Soil Spike Solution: Into a 100 mL vol. flask, partially filled with D.I. H_2O, pipet ~~the~~ 08/19/10 GVE 1.0mL of #M9783 and then bring up to volume with D.I. H_2O. Expires 01-15-11
GVE (1% HNO_3)

M9776 8-18-10 A
3050 LOD QSM B, Si
5% HNO3, 5% ~~HNO3~~ HCL
CL

3050 LOD Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
B	18	M9628	1000	0.9
Si	16	M9545	1000	0.8

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

M9777 8-18-10 A
3010 LOD QSM
List 2
5% HNO3, 5% ~~HNO3~~ HCL 8-18-10

3010 LOD Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	0.5	M9278	1000	0.025
Sn	0.9	M9279	1000	0.045
Sr	1	M9300	1000	0.05
Ti	0.5	M9277	1000	0.025
W	4	M9275	1000	0.2

Expires 12/15/2010

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

M9778 8-18-10 A
3010 LOQ QSM
List 2
5% HNO3, 5% HCL

3010 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	4.2	M9278	1000	0.21
Sn	6.2	M9279	1000	0.31
Sr	3	M9300	1000	0.15
Ti	1.8	M9277	1000	0.09
W	28	M9275	1000	1.4

Expires 12/15/2010

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

M9779 8-18-10 A
3050 LOD QSM
List 2
5% HNO3, 5% HCL

3050 LOD Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	1	M9278	1000	0.05
Sn	1	M9279	1000	0.05
Sr	0.24	M9300	1000	0.012
Ti	0.8	M9277	1000	0.04
W	4	M9275	1000	0.2

Expires 12/15/2010

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

#M9772 8-18-10
LOD QSM 3050
5% HNO3
5% HCl

3050 LOD Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	0.68	M9608	1000	0.034
Al	1.6	M9374	10000	0.008
Ba	0.32	M9518	1000	0.016
Be	0.16	M9334	1000	0.008
Cd	0.24	M9620	1000	0.012
Co	0.6	M9299	1000	0.03
Cr	0.76	M9273	1000	0.038
Cu	2.4	M9522	10000	0.012
Mg	4.8	M9719	10000	0.024
Mn	0.8	M9520	10000	0.004
Mo	0.56	M9302	1000	0.028
Ni	0.72	M9274	1000	0.036
Pb	1.6	M9521	10000	0.008
Sb	3.2	M9610	1000	0.16
V	0.44	M9612	1000	0.022
Zn	1.6	M9276	1000	0.08
K	440	M9222	10000	2.2
Na	160	M9280	10000	0.8
As	5.2	M9609	1000	0.26
Ca	6	M9373	10000	0.03
Fe	12	M9659	10000	0.06
Se	2.8	M9611	1000	0.14
Tl	1.6	M9333	1000	0.08

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

EXPIRES 12/15/2010

#M9773 8-18-10
LOD 3010 B, Si
QSM 5A
5% HNO3, HCl

3010 LOD Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
B	10	M9628	1000	0.5
Si	36	M9545	1000	1.8

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

M9774 8-18-10A
LOQ 3010 B, Si QSM
5% HNO3, 5% HCl

3010 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
B	18	M9628	1000	0.9
Si	118	M9545	1000	5.9

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

#M9775 8-18-10A
LOQ 3050 B, Si QSM
5% HNO3, 5% HCl

3050 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
B	26	M9628	1000	1.3
Si	56	M9545	1000	2.8

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

M9770 8-18-10 JA

LOQ QSM Spiking Soln. 3010
5% HCl, 5% HNO3

3010 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	2	M9608	1000	0.1
Al	26	M9374	**10000**	0.13
Ba	1.8	M9518	1000	0.09
Be	0.86	M9334	1000	0.043
Cd	0.4	M9620	1000	0.02
Co	4.3	M9299	1000	0.215
Cr	2	M9273	1000	0.1
Cu	3.8	M9522	**10000**	0.019
Mg	11	M9719	**10000**	0.055
Mn	2	M9520	**10000**	0.01
Mo	1.2	M9302	1000	0.06
Ni	4.2	M9274	1000	0.21
Pb	4.9	M9521	**10000**	0.0245
Sb	16	M9610	1000	0.8
V	1.7	M9612	1000	0.085
Zn	5.9	M9276	1000	0.295
K	900	M9222	**10000**	4.5
Na	340	M9280	**10000**	1.7
As	13	M9609	1000	0.65
Ca	100	M9373	**10000**	0.5
Fe	29	M9659	**10000**	0.145
Se	14	M9611	1000	0.7
Tl	5	M9333	1000	0.25

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

EXPIRES 12/15/2010

M9771 8-18-10 JA

LOQ QSM 3050
5% HNO3
5% HCl

3050 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	2.24	M9608	1000	0.112
Al	4.8	M9374	**10000**	0.024
Ba	1.08	M9518	1000	0.054
Be	0.48	M9334	1000	0.024
Cd	0.84	M9620	1000	0.042
Co	1.96	M9299	1000	0.098
Cr	2.52	M9273	1000	0.126
Cu	8	M9522	**10000**	0.04
Mg	16	M9719	**10000**	0.08
Mn	2	M9520	**10000**	0.01
Mo	1.92	M9302	1000	0.096
Ni	2.44	M9274	1000	0.122
Pb	5.6	M9521	**10000**	0.028
Sb	10.8	M9610	1000	0.54
V	1.36	M9612	1000	0.068
Zn	4.8	M9276	1000	0.24
K	1440	M9222	**10000**	7.2
Na	520	M9280	**10000**	2.6
As	18	M9609	1000	0.9
Ca	20	M9373	**10000**	0.1
Fe	40	M9659	**10000**	0.2
Se	16.8	M9611	1000	0.84
Tl	5.6	M9333	1000	0.28

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

EXPIRES 12/15/2010

#M9765 08/17/10 GFAA LOD Working Std. (1% HNO_3) Expires: 01-15-11 GE

Into a 100 mL vol. flask, partially filled with D.I. H_2O, pipet the following amounts and then bring up to volume with D.I. H_2O.
0.3 mL As 1,000 mg/L (#M9609) = 3000 µg/L As
0.45 mL Sb 1,000 mg/L (#M9610) = 4500 µg/L Sb
0.40 mL Tl 1,000 mg/L (#M9333) = 4000 µg/L Tl
0.80 mL Se 1,000 mg/L (#M9611) = 8000 µg/L Se
0.02 mL Pb 10,000 mg/L (#M9521) = 2000 µg/L Pb
0.04 mL Ag 1,000 mg/L (#M9608) = 400 µg/L Ag

#M9766 08/17/10 GFAA LOD Water Spike Solution (1% HNO_3) GE

Pipet 1.0 mL of #M9765 into a 100 mL vol. flask and then bring up to volume with D.I. H_2O. Exp. 01-15-11

#M9767 08/17/10 GFAA LOQ Working Std. (1% HNO_3) Expires: 01-15-11 GE

Into a 100 mL vol. flask, partially filled with D.I. H_2O, pipet the following amounts and then bring up to volume with D.I. H_2O.
0.9 mL As 1000 mg/L (#M9609) = 9000 µg/L As
1.55 mL Sb 1000 mg/L (#M9610) = 15,500 µg/L Sb
0.8 mL Tl 1000 mg/L (#M9333) = 8,000 µg/L Tl
2.6 mL Se 1000 mg/L (#M9611) = 26,000 µg/L Se
0.065 mL Pb 10,000 mg/L (#9521) = 6,500 µg/L Pb
0.13 mL Ag 1,000 mg/L (#M9608) = 1300 µg/L Ag

#M9768 08/17/10 GFAA LOQ Water Spike Solution (1% HNO_3) GE

Pipet 1 mL of #M9767 into a 100 mL vol. flask and then bring up to volume with D.I. H_2O. Exp. 01-15-11

#M9769 8-18-10
LOD QSM 3010 Spiking Stn.
5% HNO_3
5% HCl

3010 LOD Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	1	M9608	1000	0.05
Al	4	M9374	10000	0.02
Ba	0.26	M9518	1000	0.013
Be	0.13	M9334	1000	0.0065
Cd	0.11	M9620	1000	0.0055
Co	1.3	M9299	1000	0.065
Cr	0.7	M9273	1000	0.035
Cu	1.2	M9522	10000	0.006
Mg	3	M9719	10000	0.015
Mn	0.7	M9520	10000	0.0035
Mo	0.4	M9302	1000	0.02
Ni	0.6	M9274	1000	0.03
Pb	1.5	M9521	10000	0.0075
Sb	4	M9610	1000	0.2
V	0.5	M9612	1000	0.025
Zn	1.8	M9276	1000	0.09
K	300	M9222	10000	1.5
Na	100	M9280	10000	0.5
As	4	M9609	1000	0.2
Ca	15	M9373	10000	0.075
Fe	9	M9659	10000	0.045
Se	2.3	M9611	1000	0.115
Tl	1.6	M9333	1000	0.08

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working | EXPIRES 12/15/2010

L Hg

g/L Hg

g/L Hg

'L Hg

g/L Hg

1part HNO3 (AB: 490)

to 200 mL DI Water

g: ~~5~~

int (mL) to t into 1 L
1
2
0.5
0.2
0.25
0.5
0.5
0.05
2.5
0.5
0.5
0.5
0.05
1
0.5
0.5
25
5
0.5
2.5
1.5
0.5
1
2.5
1
1
2.5
0.5

#M9753 08/12/10 Custom Assurance Standard. Spex CertiPrep Lot No. 25-06JB
GAE 20,000 mg/L Ca, 10,000 mg/L Mg, Na Exp. 08-15-11

#M9754 08/13/10 AmA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9755 08/13/10 AmA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9756 08/13/10 AmA	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 9755) into 100ml = 3.0ug/L Hg
#M9757 08/13/10 AmA	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9758 08/13/10 AmA	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 9755) into 100ml = 0.2ug/L Hg
#M9759 08/13/10 AmA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 503) with 1part HNO3 (AB: 504)

#M9760 08/13/10 GAE — Cr Spiking Solution (1% HNO_3)
Pipet 1.0mL of 10,000 mg/L Cr (#M9519) → 100 mL = 100,000 µg/L Cr
Pipet 1.0mL of 100,000 µg/L Cr → 1000mL = 100 µg/L Cr (Exp 04-30-11)

#M9761 08/13/10 GAE — Be Spiking Solution (1% HNO_3)
Pipet 1.0mL of 1000 mg/L Be (#M9334) → 100mL = 10,000 µg/L Be
Pipet 1.0mL of 10,000 µg/L Be → 200mL = 50 µg/L Be (Exp. 01-15-11)

#M9762 08/16/10 GAE — GFAA MDL Spike Solution: (1%) HNO_3)
Pipet 2mL of #M9472 → 100mL = 200 µg/L As, Se, Sb
Expires 04-01-11

#M9763 08/16/10 AmA — LOD ✓/LOQ ✓ Hg Spiking Solution (0.2% HNO_3, HCl) — 1.0mL of 1000mg/L Hg (#M9257) into 100mL = 10mg/L Hg
1.0mL of 10mg/L Hg into 100mL = 100µg/L Hg
10.0mL of 100µg/L Hg into 100mL = 10.0µg/L Hg

#M9764 08/17/10 AmA — Stannous chloride Reagent: Into a 1000mL vol. flask, dissolve 100g Stannous chloride (#M9405(d)) in 70mL HCL (AB-503)
Bring up to mark with D.I. H_2O. Exp. 08/17/11

160

M9745 08/06/10 LSF — Hg Working Stds: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

M9746 08/06/10 LSF — Hg Alt Source Working Std: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

M9747 08/06/10 LSF — Hg ICV / LCSW (0.2% HNO3, HCl)
3.0ml of 100ug/L Hg (#M9746) into 100ml = 3.0ug/L Hg

9748 08/06/10 LSF — Hg CCV (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

M9749 08/06/10 LSF — Hg MRL: (0.2% HNO3, HCl)
0.2ml of 100ug/L Hg (#M9746) into 100ml = 0.2ug/L Hg

19750 08/06/10 LSF — Hg Aqua Regia Reagent:
"Carefully" in hood, mix 3 parts HCl (AB: 489) with 1part HNO3 (AB: 490)

M9751 08/06/10 LSF — Potassium Persulfate
Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water

MRL Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following: *

Analyte	MRL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	20	M9608	1000	1
Al	400	M9374	**10000**	2
Ba	10	M9518	1000	0.5
Be	4	M9334	1000	0.2
Cd	5	M9620	1000	0.25
Co	10	M9299	1000	0.5
Cr	10	M9273	1000	0.5
Cu	10	M9522	**10000**	0.05
Mg	500	M9218	**10000**	2.5
Mn	10	M9332	1000	0.5
Mo	10	M9302	1000	0.5
Ni	10	M9274	1000	0.5
Pb	10	M9521	**10000**	0.05
Sb	20	M9610	1000	1
V	10	M9612	1000	0.5
Zn	10	M9276	1000	0.5
K	5000	M9222	**10000**	25
Na	1000	M9280	**10000**	5
As	10	M9609	1000	0.5
Ca	500	M9373	**10000**	2.5
Fe	300	M9659	**10000**	1.5
Se	10	M9611	1000	0.5
Tl	20	M9333	1000	1
Si	50	M9448	1000	2.5
B	20	M9628	1000	1
Li	20	M9278	1000	1
W	50	M9275	1000	2.5
Ti	10	M9277	1000	0.5
Sr	10	M9300	1000	0.5
Sn	10	M9279	1000	0.5

#M9752 AA MRL Dep. 8-9-10
5% HCL
5% HNO3

* of this Base Std pipet 10mls into 500 ml Vol flask to create a working std or 1ml into a 50ml digestion tube for a diggested WORKing std.
dx 12/10

#M9753 08/12/10 Cust... GeE 20,0...
#M9754 08/13/10 AmA — Hg Working Stds (0.2% HNO3, HC...
#M9755 08/13/10 AmA — Hg Alt Source W... (0.2% HNO3, H...
#M9756 08/13/10 AmA — Hg ICV / LCSW (0.2% HNO3, H...
#M9757 08/13/10 AmA — Hg CCV (0.2% HNO3, H...
#M9758 08/13/10 AmA — Hg MRL: (0.2% HNO3, H...
#M9759 08/13/10 AmA — Hg Aqua Regia...
#M9760 08/13/10 GeE — Cr Sp... (1%...
#M9761 08/13/10 GeE — Be Sp... (1%...
#M9762 08/16/10 GeE — GFAA... (1%...
#M9763 08/16/10 AmA — LOD's/LC... (0.2% H...
#M9764 08/17/10 AmA — Stanne...

191 D.I. H2O.
(Acet (AB-468) and
(36) Dilute to 20L
pH = 4.93 ± 0.05
07/26/10 SF

08/03/10 SF

#M9733 08/03/10 Potassium Permanganate soln: 50g Potassium Permanganate (#M8969) dissolved into 1000mL Milli-Q H2O
Exp: 02/03/11

#M9734 08/03/10 NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M9082a) and 60g Hydroxylamine Sulfate (#M9249) in 500mL Milli-Q H2O.
CSF
Exp: 02/03/10

#M9735 08/03/10 TCLP Extraction Fluid #1: Fill a 20L carboy w/ 19L D.I. H2O, Add 114mL Glacial Acetic Acid (AB-468) and 128.6mL 10N NaOH (#M9636) Dilute to 20L w/ D.I. H2O and mix. pH = 4.93 ± 0.05
CSF
Exp: 08/03/11

#M9736 08/03/10 AmA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9737 08/03/10 AmA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9738 08/03/10 AmA	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9737) into 100ml = 3.0ug/L Hg
#M9739 08/03/10 AmA	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9740 08/03/10 AmA	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9737) into 100ml = 0.2ug/L Hg
#M9741 08/03/10 AmA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 489) with 1part HNO3 (AB: 490)
#M9742 08/03/10 AmA	Potassium Persulfate	Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water

(AB: 490)
l Water
cd
35744
HCl (AB-496).
07/28/11
H2O. Add 114mL
and 128.6mL
10L w/ D.I. H2O and mix.

#M9743 08/04/10 10N NaOH: Into a 1L vol. flask add 400g NaOH (#W72703) and bring up to volume with D.I. H2O.
CSF
Exp: 08/04/11

#M9744 08/05/10 10N NaOH: Into a 1L vol. flask add 400g NaOH (#M9497) and bring up to volume with D.I. H2O.
CSF
Exp: 08/05/11

07/27/10 GvE

#M9722 TCLP Extraction Fluid #1: Fill a 20L carboy w/ 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB: 468) and 128.6mL 10N NaOH (#M9636) Dilute to 20L w/ D.I. H_2O and mix. pH = 4.93 ± 0.05
07/26/10 LSF
Exp: 07/26/11

#M9733 08/03/10 LSF Exp:

#M9734 08/03/10 LSF NaCl

#M9735 08/03/10 LSF E

#M9722 07/27/10 AMA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9723 07/27/10 AMA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9724 07/27/10 AMA	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9723) into 100ml = 3.0ug/L Hg
#M9725 07/27/10 AMA	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9726 07/27/10 AMA	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9723) into 100ml = 0.2ug/L Hg
#M9727 07/27/10 AMA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 489) with 1part HNO3 (AB: 490)
#M9728 07/27/10 AMA	Potassium Persulfate	Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water

#M9736 08/03/10 AMA Hg Working S (0.2% HNO3,

#M9737 08/03/10 AMA Hg Alt Source (0.2% HNO3,

#M9738 08/03/10 AMA Hg ICV / LCS (0.2% HNO3

#M9739 08/03/10 AMA Hg CCV (0.2% HNO3

#M9740 08/03/10 AMA Hg MRL: (0.2% HNO3

#M9741 08/03/10 AMA Hg Aqua Reg

#M9742 08/03/10 AMA Potassium P

#M9729 07/27/10 AMA Potassium Persulfate: 50g Potassium Persulfate (#M9010) dissolved into 1000mL D.I. H_2O. Exp 01/27/11

#M9730 07/27/10 GvE Amco Clear Turbidity Standard 2.0 NTU Lot No. C035744 Expires 07/11

#M9731 07/28/10 AMA Stannous chloride Reagent: Into a 1000mL vol. flask, dissolve 100g stannous chloride (#M9405(c)) in 70mL HCl (AB: 496). Bring up to mark with D.I. H_2O. Exp. 07/28/11

#M9743 08/04/10 LSF 10N Exp: 08/0

#M9744 08/05/10 LSF 1ol Exp: 08/0

#M9732 07/29/10 LSF TCLP Extraction Fluid #1: Fill a 20L carboy w/ 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB: 468) and 128.6mL 10N NaOH (#M9636) Dilute to 20L w/ D.I. H_2O and mix. pH = 4.93 ± 0.05
Exp: 07/29/11

#M9712 07/19/10 NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M9082(6)) and
AMA 60g Hydroxylamine Sulfate (#M9249) in
500mL Milli-Q H_2O. Exp 01/19/11

D.I. H_2O. Add 114mL
468) and 188.6mL
to 20L w/D.I. H_2O

#M9713 07/21/10 Stannous chloride Reagent: Into a 1000mL vol. flask, dissolve 100g
AMA Stannous chloride (#M9405(a)) in 70mL HCl (AB-496).
Bring up to mark with D.I. H_2O. Exp 07/21/11

7/19/10
pipet into
bring up to mark

#M9714 07/21/10 Potassium Permanganate Soln: 50g Potassium Permanganate (#M8969)
AMA dissolved into 1000mL Milli-Q H_2O. Exp 01/21/11

#M9715 07/23/10 ICP MDL Spiking Soln: 1mL of 1000 mg/L Cr (#M9773) → 100mL = 10,000 µg/L Cr
GCE (1% HNO_3) 25mL of 10,000 mg/L Cr → 1000mL = 2.50 µg/L Cr
Exp. 12-15-10

+ 2.2mL of
f 10,000 mg/L Pb
Se (#M9611),
610), and 0.6mL
). Bring up to

#M9716
~~#M9715~~ 07/23/10 ICP LOD/~~LOQ~~ 07/23/10 GCE Spiking Soln: Into a 1L vol. flask, pipet the following: ~~into~~
GCE ~~a partially~~ 07/23/10 GCE
(1% HNO_3) 0.0035mL of 10,000 mg/L Pb (#M9521) = 35 µg/L Pb
Exp. 04/30/11 0.05mL of 1000 mg/L As (#M9609) = 50 µg/L As
Bring up to volume with D.I. H_2O.

+ 10mL of
me with D.I.

#M9717 07/23/10 ICP LOQ Spiking Soln: Into a 1L Vol. flask, pipet the following:
GCE (1% HNO_3) 0.012mL of 10,000 mg/L Pb (#M9521) = 120 µg/L Pb
Exp. 04/30/10 0.25mL of 1,000 mg/L As (#M9609) = 2.50 µg/L As

#M9718 07/23/10 Zinc 10,000 mg/L Spex CertiPrep Lot No. AB12-68ZN
GCE Expires: 07/15/11

#M9719 07/23/10 Magnesium 10,000 mg/L Spex CertiPrep Lot No. AB12-64MG
GCE Expires: 07/15/11

#M9720 7-26-10

ICAP Working Standards
5% HNO3 5%HCL

Standard name	Pipet the following respectively:
0.25	0.25 mls of standard 100 ug/L into 1000 ml volumetric flask = 0.25 ug/L std
0.5	0.50 mls of standard 100 ug/L into 1000ml volumentric flask= 0.50 ug/L std
1	1.0 mls of standard 100ug/L into 1000 ml volumentrc flask =1.00 ug/L std
5	5.0 mls of standard 100ug/L into 1000 ml volumentrc flask =5.00 ug/L std
10	10.0 mls of standard 100ug/L into 1000 ml volumentrc flask =10.0 ug/L std
20	20.0 mls of standard 100ug/L into 1000 ml volumentrc flask =20.0 ug/L std
50	50.0 mls of standard 100ug/L into 1000 ml volumentrc flask =50.0 ug/L std
100	1.0 mls of #M9658(ex 6/11) and 1.0 mls of #M9188 (ex 9/10) into 1000 ml volumetric flask= 100 ug/L std
500	5.0 mls of #M9658(ex 6/11) and 5.0 mls of #M9188 (ex 9/10) into 1000 ml volumetric flask= 500 ug/L std
1000	10.0 mls of #M9658(ex 6/11) and 10.0 mls of #M9188 (ex 9/10) into 1000 ml volumetric flask= 1000 ug/L std
10,000	10.0 mls of #M9658(ex 6/11), 1.0 mls of #M9518 Ba (ex 4/11) 1.0 mls #M9628 B (ex 6/11), 0.10 mls #M9374 Al (ex 1/11) into 1000 ml volumtric flask= 10000 ug/L std
100k	10 mls of #M9522 (Cu) (ex 4/11), 10 mls of #M9520 (Mn)(ex 4/11), 10 mls of #M9519 (Cr)(ex 4/11), 10 mls #M9717 (Zn)(ex 7/11), 10 mls #M9521 (Pb)(ex 4/11) into 1000 ml vol flask = 100K ug/l std
100,000	10 mls of #M9718 (Mg) (ex 7/11), 10 mls of #M9659 (Fe) (ex 6/11), 10 mls of #M9373 (Ca)(ex 1/11), 10 mls #M9374 (AL)(ex 1/11) into 1000 ml vol flask = 100,000 ug/l std
500,000	50 mls of #M9718 (Mg) (ex 7/11), 50 mls of #M9659 (Fe) (ex 6/11), 50 mls of #M9373 (Ca)(ex 1/11), 50 mls #M9374 (AL)(ex 1/11) into 1000 ml vol flask = 500,000 ug/l std
1000k	100 mls of #M9718 (Mg) (ex 7/11), 100 mls of #M9659 (Fe) (ex 6/11), 100 mls of #M9373 (Ca)(ex 1/11), 100 mls #M9374 (AL)(ex 1/11) into 1000 ml vol flask = 1000K ug/l std

Bring 1000 ml volumetrics up to mark with DI H2O

ex 9/11

AB: 490)

Water

#M9701 07/19/10 CSF — TCLP Extraction Fluid #1: Fill a 20L carboy w/ 11.9L D.I. H2O. Add 114mL Glacial Acetic Acid (CAB. 468) and 128.6mL 10N NaOH (#M9636). Dilute to 20L w/ D.I. H2O and mix. pH = 4.93 ± 0.05
Exp. 07/19/11

#M9702 7-19-10 — ICV, (NaK) LCSW — onto 500 mL vol flask pipet ~~onto~~ 7-19-10 50mL of #M9616O & #M9616I Bring up to mark w/ the DI H2O. ox 6/30/2011.
5% HNO3
5% HCl

#M9703 07/19/10 GE — GFAA Stability Working Standard: Into a 1L Vol. flask, pipet 2.2mL of 1000mg/L As (#M9609), 0.18mL of 10,000 mg/L Pb (#M9621), 4.4mL of 1,000 mg/L Se (#M9611), 1.2mL of 1,000 mg/L Sb (#M9610), and 0.6mL of 1000 mg/L Tl (#M9333). Bring up to volume with D.I. H2O.
(1% HNO3)
Exp. 01-15-11

#M9704 07/19/10 GE — GFAA Instrument Stability Standard: Into a 1L vol. flask, pipet 10mL of #M9703 and bring up to volume with D.I. H2O.
(1% HNO3)
Exp. 01-15-11

M9705 07/19/10 AMA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
M9706 07/19/10 AMA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
M9707 07/19/10 AMA	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9706) into 100ml = 3.0ug/L Hg
M9708 07/19/10 AMA	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
M9709 07/19/10 AMA	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9706) into 100ml = 0.2ug/L Hg
M9710 07/19/10 AMA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 489) with 1part HNO3 (AB: 490)
M9711 07/19/10 AMA	Potassium Persulfate	Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water

#M9712 07/19/10 NaCl AMA

#M9713 07/21/10 Stanno AMA

#M9714 07/21/10 Potass AMA

#M9715 07/23/10 ICP M GE (1% Exp.

#M9716 ~~#M9716~~ 07/23/10 ICP GE (1% Exp

#M9717 07/23/10 ICP GE (1% Exp

#M9718 07/23/10 Z GE E

#M9719 07/23/10 M GE E

#M9720 7-26-10

ICAP Working Standards
5% HNO3 5%HCl

Standard name	Pipet the f
	0.25
	0.5
	1
	5
	10
	20
	50
	100
	500
	1000
	10,000
	100k
	100,000
	500,000
	1000k

'0 mls. M9534, 20 mls #M9689 LSF 07/13/10
ing cup to mark w/
= H_2O.

D.I. H_2O. Add 114 mL
B.468) and 128.6 mL
to 20L w/D.I. H_2O #M9690 LSF 07/13/10

Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9690) into 100ml = 3.0ug/L Hg
Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9690) into 100ml = 0.2ug/L Hg
Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 489) with 1part HNO3 (AB: 490)
Potassium Persulfate	Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water

#M9691 LSF 07/13/10
#M9692 LSF 07/13/10
#M9693 LSF 07/13/10
#M9694 LSF 07/13/10
#M9695 LSF 07/13/10

#M9696 LSF 07/14/10. TCLP Extraction Fluid #1: Fill a 20L carboy w/ 19L D.I. H_2O. Add 114 mL Glacial Acetic Acid (AB. 499) and 128.6mL 10N NaOH (#M9636). Dilute to 20L w/ D.I. H_2O and mix. pH = 4.93 ± 0.05
Exp: 07/14/11

3: 490)
ater

#M9697 AMA 07/14/10 Stannous chloride Reagent: Into a 1000mL vol. flask, dissolve 10g stannous chloride (#M9405(a)) in 70mL HCl (AB·496). Bring up to mark with D.I. H_2O. Exp 07/14/11

vate
2 Milli-Q H_2O.

#M9698 7-19-10 ICSAB NAK Into 250 ml vol flask Pipet 25mls #M9607
5% HNO_3 7-19-10 7.5mls of M9659, 25mls of M9660 + M9661. Bring up to
5% HNO_3 Mark with DI H_2O. ex June 15, 2011

#M9699 CCV (Dorcal) Into 1 Liter vol flask Pipet 10mls M9455
5% HCl 7-19-10 1mls of M9373, M9218, M9374 & 0.5mls M9659.
5% HNO_3 Bring up to mark with DI H_2O. ex 10/15/10.

#M9700. ICV/LCSW (Dorcal) Into 1 liter vol flask pipet 10 mls #M9530,
5% HCl 7.19.10 2.0 mls #M9607, 0.5mls M9628 & 0.5mls #M9302
5% HNO_3 Bring up to mark with DI H_2O. ex Dec 2010.

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#M9679 ICV Icp Onto 1000 ml vol flask pipet 10 mls M9534, 20 mls M9607, 0.5 mls M9140 & 0.5 mls M9302. Bring up to mark w. 0.07 mls. M9608. DI H_2O.
7-1-10 JH

#M968007/06/10 TCLP Extraction Fluid #1: Fill a 20L carboy w/ 19L D.I. H_2O. Add 114 mL Glacial Acetic Acid (AB: 468) and 128.6 mL 10N NaOH (#M9636). Dilute to 20L w/ D.I. H_2O and mix. pH = 4.93 ± 0.05
LSF
Exp. 07/06/11

#M9681 AMA 07/06/10	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9682 AMA 07/06/10	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9683 AMA 07/06/10	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9682) into 100ml = 3.0ug/L Hg
#M9684 AMA 07/06/10	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9685 AMA 07/06/10	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9682) into 100ml = 0.2ug/L Hg
#M9686 AMA 07/06/10	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 489) with 1part HNO3 (AB: 490)
#M9687 AMA 07/06/10	Potassium Persulfate	Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water

#M9688 LSF 07/13/10 Potassium Permanganate soln: 50g Potassium Permanganate (#M8969) dissolved into 1000mL Milli-Q H_2O.

Exp: 01/13/11

#M9668 GLE 06/29/10 — GFAA Base Std (25µg/L) (18% HNO_3, 6% HCL) Exp. 04/01/11 — Pipet 5.0mL of #M9482 into a 200mL vol. flask. Bring up to volume with D.I. H_2O.

2).

#M9669 GLE 06/29/10 — GFAA CCV (10µg/L) (18% HNO_3, 6% HCL) Exp. 04/01/11 — Pipet 2.0mL of #M9482 into a 200mL vol. flask. Bring up to volume with D.I. H_2O.

#M9670 GLE 06/29/10 — GFAA Alt. Source (10µg/L) (18% HNO_3, 6% HCL) Exp. 04/01/11 — Pipet 10.0mL of #M9483 into a 200mL vol. flask. Bring up to volume with D.I. H_2O.

#M9671 GLE 06/29/10 — GFAA Base Std (25µg/L) (20% HNO_3) Exp. 04/01/11 — Pipet 5.0mL of #M9482 into a 200mL vol. flask. Bring up to volume with D.I. H_2O.

#M9672 GLE 06/29/10 — GFAA CCV (10µg/L) (20% HNO_3) Exp. 04/01/11 — Pipet 2.0mL of #M9482 into a 200mL vol. flask. Bring up to volume with D.I. H_2O.

#M9673 GLE 06/29/10 — GFAA Alt. Source (10µg/L) (20% HNO_3) Exp. 04/01/11 — Pipet 10.0mL of #M9483 into a 200mL vol flask. Bring up to volume with D.I. H_2O.

#M9674 GLE 06/29/10 — GFAA Base Std. (100µg/L) (20% HNO_3) Exp. 04/01/11 — Pipet 10.0mL of #M9482 into a 100mL vol. flask. Bring up to volume with D.I. H_2O.

#M9675 GLE 06/29/10 — GFAA CCV (50µg/L) (20% HNO_3) Exp. 04/01/11 — Pipet 5.0mL of #M9482 into a 100mL vol. flask. Bring up to volume with D.I. H_2O.

#M9676 GLE 06/29/10 — GFAA Alt. Source (50µg/L) (20% HNO_3) Exp. 04/01/11 — Pipet 25.0mL of #M9483 into a 100mL vol. flask. Bring up to volume with D.I. H_2O.

#M9677 AMA 07/01/10 — TCLP Extraction Fluid #1: fill a 20L carboy with 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB-4168) and 128.6mL 10N NaOH (#M9636). Dilute to 20L with D.I. H_2O and mix. The pH = 4.93 ± 0.05. Exp. 07/01/11

#M9678 7-1-10 A — ICV ICP : into 1000ml Vol flask Pipet 10mls of #M9534 2.0mls #M9607 0.5mls #M8802 & 0.5mls #M9140 Bring up to mark with DI H_2O.

#M9665 AmA Stannous Chloride Reagent: Into a 1000mL Vol. flask, dissolve 100g
6/29/10 Stannous chloride (#M9129(a)) in 70mL HCl (AB-492)
Bring up to mark with D.I. H_2O. Exp 6/29/11

#M9666 A ICP Working Stds 4.5 min method.

6-29-10 ICAP Working Standards

18% HNO3 6%HCL

Standard name	Pipet the following respectively:
0.25	0.25 mls of standard 100 ug/L into 1000 ml volumetric flask = 0.25 ug/L std
0.5	0.50 mls of standard 100 ug/L into 1000ml volumentric flask= 0.50 ug/L std
1	1.0 mls of standard 100ug/L into 1000 ml volumentrc flask =1.00 ug/L std
5	5.0 mls of standard 100ug/L into 1000 ml volumentrc flask =5.00 ug/L std
10	10.0 mls of standard 100ug/L into 1000 ml volumentrc flask =10.0 ug/L std
20	20.0 mls of standard 100ug/L into 1000 ml volumentrc flask =20.0 ug/L std
50	50.0 mls of standard 100ug/L into 1000 ml volumentrc flask =50.0 ug/L std
100	1.0 mls of #M9298(ex 12-10) and 1.0 mls of #M9188 (ex 9/10) into 1000 ml volumectric flask= 100 ug/L std
500	5.0 mls of #M9298(ex 12/10) and 5.0 mls of #M9188 (ex 9/10) into 1000 ml volumetric flask= 500 ug/L std
1000	10.0 mls of #M9288(ex 12/10) and 10.0 mls of #M9188 (ex 9/10) into 1000 ml volumetric flask= 1000 ug/L std
10,000	10.0 mls of #M9298(ex 12/10), 10.0 mls of #M9188 (ex 9/10) into 1000 ml=10,000 ug/L std
100k	10 mls of #M9522 (Cu) (ex 4/11) , 10 mls of #M9520 (Mn)(ex 4/11) , 10 mls of #M9519 (Cr)(ex 4/11), 10 mls #M9521 (Pb)(ex 4/11) 100 mls #M9276 (Zn)(ex 12/10) = 100,000 ug/L
100,000	10 mls of #M9218 (Mg) (ex 10/10) , 10 mls of #M9659 (Fe) (ex 06/11) ,10 mls of #M9373 (Ca)(ex 1/11),10 mls #M9374 (AL)(ex 1/11) into 1000 ml vol flask = 100,000 ug/l std
500,000	50 mls of #M9218 (Mg) (ex 10/10) , 50 mls of #M9659 (Fe) (ex 06/11) ,50 mls of #M9373 (Ca)(ex 1/11),50 mls #M9374 (AL)(ex 1/11) into 1000 ml vol flask = 500,000 ug/l std
1000k	100 mls of #M9218 (Mg) (ex 10/10) , 100 mls of #M9659 (Fe) (ex 6-11) ,100 mls of #M9373 (Ca)(ex 1/11),100 mls #M9374 (AL)(ex 1/11) into 1000 ml vol flask = 1,000,000 ug/l std
	Bring the 1000 ml volumetric up to mark with DI H2O

#M9667 A

6-29-10 ICAP Working Standards 7+24 min

20% HNO3

Standard name	Pipet the following respectively:
0.25	0.25 mls of standard 100 ug/L into 1000 ml volumetric flask = 0.25 ug/L std
0.5	0.50 mls of standard 100 ug/L into 1000ml volumentric flask= 0.50 ug/L std
1	1.0 mls of standard 100ug/L into 1000 ml volumentrc flask =1.00 ug/L std
5	5.0 mls of standard 100ug/L into 1000 ml volumentrc flask =5.00 ug/L std
10	10.0 mls of standard 100ug/L into 1000 ml volumentrc flask =10.0 ug/L std
20	20.0 mls of standard 100ug/L into 1000 ml volumentrc flask =20.0 ug/L std
50	50.0 mls of standard 100ug/L into 1000 ml volumentrc flask =50.0 ug/L std
100	1.0 mls of #M9298(ex 12-10) and 1.0 mls of #M9188 (ex 9/10) into 1000 ml volumectric flask= 100 ug/L std
500	5.0 mls of #M9298(ex 12/10) and 5.0 mls of #M9188 (ex 9/10) into 1000 ml volumetric flask= 500 ug/L std
1000	10.0 mls of #M9288(ex 12/10) and 10.0 mls of #M9188 (ex 9/10) into 1000 ml volumetric flask= 1000 ug/L std
10,000	10.0 mls of #M9298(ex 12/10), 10.0 mls of #M9188 (ex 9/10) into 1000 ml=10,000 ug/L std
100k	10 mls of #M9522 (Cu) (ex 4/11) , 10 mls of #M9520 (Mn)(ex 4/11) , 10 mls of #M9519 (Cr)(ex 4/11), 10 mls #M9521 (Pb)(ex 4/11) 100 mls #M9276 (Zn)(ex 12/10) = 100,000 ug/L
100,000	10 mls of #M9218 (Mg) (ex 10/10) , 10 mls of #M9659 (Fe) (ex 06/11) ,10 mls of #M9373 (Ca)(ex 1/11),10 mls #M9374 (AL)(ex 1/11) into 1000 ml vol flask = 100,000 ug/l std
500,000	50 mls of #M9218 (Mg) (ex 10/10) , 50 mls of #M9659 (Fe) (ex 06/11) ,50 mls of #M9373 (Ca)(ex 1/11),50 mls #M9374 (AL)(ex 1/11) into 1000 ml vol flask = 500,000 ug/l std
1000k	100 mls of #M9218 (Mg) (ex 10/10) , 100 mls of #M9659 (Fe) (ex 6-11) ,100 mls of #M9373 (Ca)(ex 1/11),100 mls #M9374 (AL)(ex 1/11) into 1000 ml vol flask = 1,000,000 ug/l std
	Bring the 1000 ml volumetric up to mark with DI H2O

#M9662 7A
6-29-10

MRL Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MRL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	20	M9608	1000	1
Al	400	M9374	**10000**	2
Ba	10	M9518	1000	0.5
Be	4	M9334	1000	0.2
Cd	5	M9620	1000	0.25
Co	10	M9299	1000	0.5
Cr	10	M9273	1000	0.5
Cu	10	M9522	**10000**	0.05
Mg	500	M9218	**10000**	2.5
Mn	100	M9332	1000	0.5
Mo	10	M9302	1000	0.5
Ni	10	M9274	1000	0.5
Pb	10	M9521	**10000**	0.05
Sb	20	M9610	1000	1
V	10	M9612	1000	0.5
Zn	10	M9276	1000	0.5
K	5000	M9222	**10000**	25
Na	1000	M9280	**10000**	5
As	10	M9609	1000	0.5
Ca	500	M9373	**10000**	2.5
Fe	300	M9219	**10000**	1.5
Se	10	M9611	1000	0.5
Tl	20	M9333	1000	1
Si	50	M9448	1000	2.5
B	20	M9628	1000	1
Li	20	M9278	1000	1
W	50	M9275	1000	2.5
Ti	10	M9277	1000	0.5
Sr	10	M9300	1000	0.5
Sn	10	M9279	1000	0.5

#M9662 7A 6-29-10

ex Dec 2010

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

#M9663 7A
MRL 6-29-10 Into 500 ml volumetric pipet 10mls of #M9662. Bring up to mark with DI H_2O. ex Dec 2010.

#M9664-7A 6-29-10 MRL Ca, Fe, Mg, Al, Mn into 500 ml vol flask pipet 1ml of #M9662. Bring up to mark with DI H_2O ex Dec 2010.

#M9648 6/24/10 AMA — 3050 ICP MDL Spiking Solution: Into a 1L vol. flask, pipet the following (1% HNO_3, HCl) and bring up to volume with D.I. H_2O.
Exp. 4/30/11
1mL AS 1000mg/L (#M9609)
0.025mL Pb 10,000mg/L (#M9521)

#M9649 6-28-10 A — Continuing Calibration Verification (CCV) into 1 Liter volumetric flask prep'd 10 mls #M9455, 1ml M9218, M9373, M9374 & 0.5mls M9219. Bring up to mark with DI H_2O. ex 10/10.
5% HCl
5% HNO_3

#M9650 AMA 6/28/10	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9651 AMA 6/28/10	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9652 AMA 6/28/10	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9651) into 100ml = 3.0ug/L Hg
#M9653 AMA 6/28/10	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9654 AMA 6/28/10	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9651) into 100ml = 0.2ug/L Hg
#M9655 AMA 6/28/10	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 489) with 1part HNO3 (AB: 490)
#M9656 AMA 6/28/10	Potassium Persulfate	Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water

#M9657 AMA 6/28/10 — NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M9082(6)) and 60g Hydroxylamine Sulfate (#M9249) in 500mL Milli-Q H_2O. Exp 12/28/10

#M9658 A 6-29-10 — Quality Control Std #21 Spex Certiprep lot# 19-50JB. exp 6/30/11.

#M9659 A 6-29-10 — Fe 10,000mg/L Spex Certiprep lot # AB12-31FE.

M9660 A 6-29-10 — 1000 mg/L Potassium Spex Certiprep lot # 16-26K. ex 6/30/11.

#M9661 6-29-10 — 1000 mg/L Sodium Spex Certiprep lot # 15-97Na ex 6/30/11 #M9620

6/11 #M9637 AMA 6/21/10 — Potassium Permanganate soln: 50g Potassium Permanganate (#M8969) dissolved into 1000mL Milli-Q H_2O. Exp. 12/21/10

1ml #M9638 AMA 6/21/10	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
3188 #M9639 AMA 6/21/10	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9640 AMA 6/21/10	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9639) into 100ml = 3.0ug/L Hg
#M9641 AMA 6/21/10	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9642 AMA 6/21/10	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9639) into 100ml = 0.2ug/L Hg
#M9643 AMA 6/21/10	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 489) with 1part HNO3 (AB: 490)
#M9644 AMA 6/21/10	Potassium Persulfate	Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water

#M9645 GLE 06/23/10 — Tungsten Working Standards: Expires: 10/10 — Into (5) 1L Vol. flasks pipet:
1 µg/L = 0.001 mL of #M9105
10 µg/L = 0.01 mL of #M9105
100 µg/L = 0.1 mL of #M9105
1,000 µg/L = 1.0 mL of #M9105
10,000 µg/L = 10 mL of #M9105
Bring up to mark with D.I. H_2O

#M9646 GLE 06/23/10 — W ICV/LCSW: Expires: 12-15-10 — Into a 1L Vol. flask, pipet the following: 0.5mL of #M9275. Bring up to mark with D.I. H_2O.

4ml #M9647 GLE 06/23/10 — W CCV: Expires: 10/10 — Into a 1L Vol. flask, pipet the following 0.5mL of #M9105. Bring up to mark with D.I. H_2O.

#M9628 6-14-10 Boron 1000mg/L Spex Certoprep Lot # 16-52B ex 6/11

#M9629 6-14-10 Boron & Silicon 1000µg/L ICV Into 1000 ml Vol flask pipet 1ml of #M9628 & M9545 bring up to mark with DI H_2O Dex 6/11.

#M9630 6-14-10 Boron & Si CCV Into 200ml Vol flask pipet 2mls #M9188 Bring up to mark with DI H_2 ex 9/10.

#M9631 6/17/10 LSF Potassium Persulfate: 50g Potassium persulfate (#M9010) dissolved into 1000ml D.I. H_2O. Exp: 12/17/10

#M9632 GLE 06/21/10 List 2 Standards (Working) 5:1 HNO_3, HCL Expires: 12-15-10

Into (5) 1 Liter Vol. Flasks pipet:

1 µg/L = 0.01mL #M9298 + 0.001mL M9275 + 0.001mL #M9279
10 µg/L = 0.1mL #M9298 + 0.01mL #M9275 + 0.01mL #M9279
100 µg/L = 1.0mL #M9298 + 0.10mL #M9275 + 0.10mL #M9279
1,000 µg/L = 10.0mL #M9298 + 1.0mL #M9275 + 1.0mL #M9279
10,000 µg/L = 100.0mL #M9298 + 10mL #M9275 + 10mL #M9279
Bring up to mark with D.I. H_2O.

#M9633 GLE 06/21/10 List 2 ICV/LCSW 5:1 HNO_3, HCL Expires: Oct. 2010

Into a 1L Vol. Flask, pipet the following
0.5mL of #M9281
0.5mL of #M9105
0.5mL of #M9278
0.5mL of #M9277
0.5mL of #M9300
Bring up to mark with. D.I. H_2O

#M9634 GLE 06/21/10 List 2 CCV 5:1 HNO_3, HCL Expires: 12-15-10

Into a 1L Vol. Flask, pipet the following:
5mL of #M9298
0.5mL of #M9275
0.5mL of #M9279
Bring up to mark with D.I. H_2O.

#M9635 LSF 06/21/10 TCLP Extraction Fluid #1: Fill a 7ol carboy w/ 11.9L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB.4687) and 128.6mL 10N NaOH (#M9636). Dilute to 7ol w/ D.I. H_2O and mix. pH: 4.93 ± 0.05 Exp 06/21/11

#M9636 LSF 06/21/10 10N NaOH: Into a 1L Vol. flask add 400g NaOH (#W22703) and bring up to volume with D.I. H_2O. Exp: 06/21/11

#M9613 06/08/10 LSF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9614 06/08/10 LSF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9615 06/08/10 LSF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 9614) into 100ml = 3.0ug/L Hg
#M9616 06/08/10 LSF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9617 06/08/10 LSF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9614) into 100ml = 0.2ug/L Hg
#M9618 06/08/10 LSF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 489) with 1part HNO3 (AB: 490)
#M9619 06/08/10 LSF	Potassium Persulfate	Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water

#M9620 06/11/10 Cadmium 1,000 mg/L Spex CertiPrep Lot No. 15-119CD Exp. 06-15-11
AMA

#M9621 06/14/10 LSF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9622 06/14/10 LSF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9623 06/14/10 LSF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M) into 100ml = 3.0ug/L Hg
#M9624 06/14/10 LSF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9625 06/14/10 LSF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M) into 100ml = 0.2ug/L Hg
#M9626 06/14/10 LSF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 489) with 1part HNO3 (AB: 490)
06/14/10 LSF #M9624 06/14/10 LSF	Potassium Persulfate	Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water

M9604 cont...

Sr	10	m9300	1000	0.5
Ti	10	m9277	1000	0.5
Li	20	m9278	1000	1
Sn	10	m9279	1000	0.5
B	10	m9140	1000	0.5
Si	30	m9448	1000	1.5

Bring up to mark with DI H_2O.

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

ex6-30-2010

#M9613 06/08/10 LSF

#M9614 06/08/10 LSF

#M9615 06/08/10 LSF

#M9616 06/08/10 LSF

#M9617 06/08

#M9618 06/08

#M9619 06/08

M9605 MRL working std into 500ml vol flask prpd 6-1-10 A — 10 mls of #M9604 Bring up to mark with DI H_2O ex 6-30-10.

M9606 06/05/10 LSF — TCLP Extraction Fluid #1: Fill a 20L carboy w/ 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB.4682) and 128.6mL 10N NaOH (#M9495). Dilute to 20L w/ D.I. H_2O and mix. pH: 4.93 ± 0.05

Exp. 06/05/11

#M9607 06/07/10 GLE — Interferents A Spex CertiPrep Lot No. 8-79GS Exp. 06-15-11
5,000 mg/L Al, Ca, Mg 2000 mg/L Fe

#M9608 06/07/10 GLE — Silver 1,000 mg/L Spex CertiPrep Lot No. 15-162AG Exp. 06-15-11

#M9609 06/07/10 GLE — Arsenic 1,000 mg/L Spex CertiPrep Lot No. 15-64AS Exp. 06-15-11

#M9610 06/07/10 GLE — Antimony 1,000 mg/L Spex CertiPrep Lot No. 15-174SB Exp. 06-15-11

#M9611 06/07/10 GLE — Selenium 1,000 mg/L Spex CertiPrep Lot No. 15-188SE Exp. 06-15-11

#M9612 06/07/10 GLE — Vanadium 1,000 mg/L Spex CertiPrep Lot No. 16-11V Exp. 06-15-11

#M9598 06/04/10 SF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9599 06/04/10 SF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9600 06/02/10 SF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 9599) into 100ml = 3.0ug/L Hg
#M9601 06/02/10 SF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9602 06/02/10 SF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 9599) into 100ml = 0.2ug/L Hg
#M9603 06/02/10 SF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 489) with 1part HNO3 (AB: 490)
#M9604 06/02/10 SF	Potassium Persulfate	Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water

#M9605 Hg Spiking Solution: 1.0ml of 1000mg/L Hg (#M9257) ~~into~~ 06/02/10 SF
1.0ml of 10mg/L Hg into 100ml
1.0ml of 100ug/L Hg into 100ml

#M9604 #~~M9602~~ 6-1-10
~~6-2-10~~ 5% HNO3
5% HCL

MRL Std
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following: 1 Class pipet

Analyte	MRL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	20	m9052	1000	1
Al	400	M9374	**10000**	2
Ba	10	M9518	1000	0.5
Be	4	M9334	1000	0.2
Cd	5	M9055	1000	0.25
Co	10	M9299	1000	0.5
Cr	10	M9273	1000	0.5
Cu	10	M9522	**10000**	0.05
Mg	500	M9218	**10000**	2.5
Mn	10	m9520	10000	0.05
Mo	10	M9302	1000	0.5
Ni	10	M9274	1000	0.5
Pb	10	M9521	**10000**	0.05
Sb	20	M9053	1000	1
V	10	M9056	1000	0.5
Zn	10	M9276	1000	0.5
K	5000	M9222	**10000**	25
Na	1000	M9280	**10000**	5
As	10	M9058	1000	0.5
Ca	500	M9373	**10000**	2.5
Fe	300	M9219	**10000**	1.5
Se	10	M9054	1000	0.5
Tl	20	M9333	1000	1

MRL M9604 cont...

#M9594 5/28/10
AmA
5% HNO_3
5% HCl

3010 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
B	18	M9140	1000	0.9
Si	118	M9448	1000	5.9

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Exp 8/30/10

#M9595 5/28/10
AmA
5% HNO_3
5% HCl

3010 LOD Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
B	10	M9140	1000	0.5
Si	36	M9448	1000	1.8

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Exp 8/30/10

#M9596 5/28/10
AmA
5% HNO_3
5% HCl

3010 LOD Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	0.5	M9278	1000	0.025
Sn	0.9	M9279	1000	0.045
Sr	1	M9300	1000	0.05
Ti	0.5	M9277	1000	0.025
W	4	M9275	1000	0.2

Exp 12/15/10

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

#M9597 5/28/10
AmA
5% HNO_3
5% HCl

3010 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	4.2	M9278	1000	0.21
Sn	6.2	M9279	1000	0.31
Sr	3	M9300	1000	0.15
Ti	1.8	M9277	1000	0.09
W	28	M9275	1000	1.4

Exp 12/15/10

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working

#M9591 05/27/10
GLE 1% HNO3

GFAA LOQ Soil Spiking Solution
Base SPIKE PREPARATION 50x

Exp. 06-30-10

Into a 1000 mL Volumetric Flask, pipet the following:

LOQ 05/10 GLE

Analyte	~~MDL~~ (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	0.42	M9052	1000	0.021
Sb	1.9	M9053	1000	0.095
Se	5.2	M9054	1000	0.26
Tl	1.6	M9333	1000	0.08
Pb	1.3	M9521	**10000**	0.0065
As	5.4	M9058	1000	0.27

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

#M9592 5/28/10
AMA 5% HNO_3
5% HCl

3050 LOD Spiking Soluion
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

LOD

Analyte	~~MDL~~ 5/28/10 AMA (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	1	M9278	1000	0.05
Sn	1	M9279	1000	0.05
Sr	0.24	M9300	1000	0.012
Ti	0.8	M9277	1000	0.04
W	4	M9275	1000	0.2

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Exp. 12/15/10

a 10mls

9455,
ring up

#M9593 5/28/10
AMA 5% HNO_3
5% HCl

3050 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

LOQ

Analyte	~~MDL~~ 5/28/10 AMA (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	4	M9278	1000	0.2
Sn	3.2	M9279	1000	0.16
Sr	1.52	M9300	1000	0.076
Ti	4.8	M9277	1000	0.24
W	28	M9275	1000	1.4

Exp 12/15/10

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

2 & 15mls
2010.

M9580 05/25/10 05/25/10 CSF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
M9581 05/25/10 CSF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
M9582 05/25/10 CSF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 9581) into 100ml = 3.0ug/L Hg
M9583 05/25/10 CSF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
M9584 05/25/10 CSF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M~~9581~~ 05/25/10 CSF 9581) into 100ml = 0.2ug/L Hg
M9585 05/25/10 CSF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 489) with 1part HNO3 (AB: 490)
M9586 05/25/10 CSF	Potassium Persulfate	Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water

#M9591
GLE 1

#M9592
AMA

M9587 5-25-10 ICSA onto 500ml vol flask pipet 500mls #M9212 & 10mls
2A 5% HNO3 #M9219 Bring upto mark with DI H_2O.
5% HCL.

M9588 5-26-10 CCV onto 1 Liter vol flask pipet 10mls #M9455,
2A 5% HNO3 1ml #M9374, #M9218 and #M9373, 0.5mls #M9219 Bring up
5% HCL to mark with DI H_2O. ex Oct 15, 2010.

#M9593
AMA

#M9589 5-23-10 ICSA onto 500 ml vol flask pipet 500 mls #M9212 & 15mls
2A 5% HNO3 #M9219 Brings upto mark with DI H_2O ex Oct 15 2010.
5% HCL

#M9590 05/27/10
GLE 1% HNO_3

GFAA LOD Soil Spiking Solution
Base SPIKE PREPARATION 50x Exp. 06-30-10

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	0.06	M9052	1000	0.003
Sb	0.6	M9053	1000	0.03
Se	1.6	M9054	1000	0.08
Tl	0.5	M9333	1000	0.025
Pb	0.4	M9521	**10000**	0.002
As	1.6	M9058	1000	0.08

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

#M9577 5/25/10
AMA
5% HNO_3
5% HCl

3050 LOD Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	~~MDL~~ LOD (ug/L) 5/25/10 AMA	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	0.68	M9052	1000	0.034
Al	1.6	M9374	**10000**	0.008
Ba	0.32	M9518	1000	0.016
Be	0.16	M9334	1000	0.008
Cd	0.24	M9055	1000	0.012
Co	0.6	M9299	1000	0.03
Cr	0.76	M9273	1000	0.038
Cu	2.4	M9522	**10000**	0.012
Mg	4.8	M9218	**10000**	0.024
Mn	0.8	M9332	1000	0.04
Mo	0.56	M9302	1000	0.028
Ni	0.72	M9274	1000	0.036
Pb	1.6	M9521	**10000**	0.008
Sb	3.2	M9053	1000	0.16
V	0.44	M9056	1000	0.022
Zn	1.6	M9276	1000	0.08
K	440	M9222	**10000**	2.2
Na	160	M9280	**10000**	0.8
As	5.2	M9058	1000	0.26
Ca	6	M9373	**10000**	0.03
Fe	12	M9219	**10000**	0.06
Se	2.8	M9054	1000	0.14
Tl	1.6	M9333	1000	0.08

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Exp 6/30/10

#M9578 5/25/10
AMA
5% HNO_3
5% HCl

3050 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	~~MDL~~ LOQ (ug/L) 5/25/10 AMA	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
B	28	M9140	1000	1.4
Si	56	M9448	1000	2.8

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Exp 8/30/10

#M9579 5/25/10 AMA
5/25/10
AMA
5% HNO_3
5% HCl

3050 LOD Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	~~MDL~~ LOD (ug/L) 5/25/10 AMA	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
B	18	M9140	1000	0.9
Si	16	M9448	1000	0.8

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard

Exp. 8/30/10

#M9576 05/24/10 AMA

5% HNO_3

5% HCl

3050 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

#M9577 AMA

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	~~MDL~~ LOQ 5/24/10 AMA (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	2.24	M9052	1000	0.112
Al	4.8	M9374	**10000**	0.024
Ba	1.08	M9518	1000	0.054
Be	0.48	M9334	1000	0.024
Cd	0.84	M9055	1000	0.042
Co	1.96	M9299	1000	0.098
Cr	2.52	M9273	1000	0.126
Cu	8	M9522	**10000**	0.04
Mg	16	M9218	**10000**	0.08
Mn	2	M9332	1000	0.1
Mo	1.92	M9302	1000	0.096
Ni	2.44	M9274	1000	0.122
Pb	5.6	M9521	**10000**	0.028
Sb	10.8	M9053	1000	0.54
V	1.36	M9056	1000	0.068
Zn	4.8	M9276	1000	0.24
K	1440	M9222	**10000**	7.2
Na	520	M9280	**10000**	2.6
As	18	M9058	1000	0.9
Ca	20	M9373	**10000**	0.1
Fe	40	M9219	**10000**	0.2
Se	16.8	M9054	1000	0.84
Tl	5.6	M9333	1000	0.28

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Exp 6/30/10

#M9578 AMA

5/24/10 AMA

#M9579 5/2 AMA

#M9575 5/20/10

AMA

5% HNO_3

5% HCL

3010 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	2	M9052	1000	0.1
Al	26	M9374	**10000**	0.13
Ba	1.8	M9518	1000	0.09
Be	0.86	M9334	1000	0.043
Cd	0.4	M9055	1000	0.02
Co	4.3	M9299	1000	0.215
Cr	2	M9273	1000	0.1
Cu	3.8	M9522	10000	~~0.19~~ 0.019
Mg	11	M9218	**10000**	0.055
Mn	2	M9332	1000	0.1
Mo	1.2	M9302	1000	0.06
Ni	4.2	M9274	1000	0.21
Pb	4.9	M9521	**10000**	0.0245
Sb	16	M9053	1000	0.8
V	1.7	M9056	1000	0.085
Zn	5.9	M9276	1000	0.295
K	900	M9222	**10000**	4.5
Na	340	M9280	**10000**	1.7
As	13	M9058	1000	0.65
Ca	100	M9373	**10000**	0.5
Fe	29	M9219	10000	~~1.45~~ 0.145
Se	14	M9054	1000	0.7
Tl	5	M9333	1000	0.25

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

#M9572 05/20/10
GAE
1% HNO_3

GFAA LOD Spiking Solution
Base SPIKE PREPARATION 50x

Exp. 06-30-10

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	0.04	M9052	1000	0.002
Pb	0.4	M9521	**10000**	0.002
Sb	0.9	M9053	1000	0.045
As	0.6	M9058	1000	0.03
Se	1.6	M9054	1000	0.08
Tl	0.8	M9333	1000	0.04

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

#M9573 05/20/10
GAE
1% HNO_3

GFAA LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Exp. 06-30-10

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	0.13	M9052	1000	0.0065
Pb	1.3	M9521	**10000**	0.0065
Sb	3.1	M9053	1000	0.155
As	1.8	M9058	1000	0.09
Se	5.2	M9054	1000	0.26
Tl	1.3		1000	0.065

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

#M9574 05/20/10 Sodium Chloride Fisher Lot No. 097125 f.w. 58.44
GAE

M9575 5/20/10
AMA
5% HNO_3
5% HCL

d 114mL
mL 10N NaOH
mix.

#M9564 05/20/10 CSF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
flask pipet rinse up #M9565 05/20/10 CSF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9566 05/20/10 CSF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9565) into 100ml = 3.0ug/L Hg
mL #M9567 05/20/10 CSF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9568 05/20/10 CSF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9565) into 100ml = 0.2ug/L Hg
#M9568 05/20/10 CSF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 489) with 1part HNO3 (AB: 490)
#M9569 5/20/10 CSF	Potassium Persulfate	Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water

#M9571 5/20/10
AMA 5% HNO_3
5% HCl

LOD Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	1	M9052	1000	0.05
Al	4	M9374	10000	0.02
Ba	0.26	M9518	1000	0.013
Be	0.13	M9334	1000	0.0065
Cd	0.11	M9055	1000	0.0055
Co	1.3	M9299	1000	0.065
Cr	0.7	M9273	1000	0.035
Cu	1.2	M9522	10000	~~0.06~~ 0.006
Mg	3	M9218	10000	0.015
Mn	0.7	M9332	1000	0.035
Mo	0.4	M9302	1000	0.02
Ni	0.6	M9274	1000	0.03
Pb	1.5	M9521	10000	0.0075
Sb	4	M9053	1000	0.2
V	0.5	M9056	1000	0.025
Zn	1.8	M9276	1000	0.09
K	300	M9222	10000	1.5
Na	100	M9280	10000	0.5
As	4	M9058	1000	0.2
Ca	15	M9373	10000	0.075
Fe	9	M9219	10000	~~0.45~~ 0.045
Se	2.3	M9054	1000	0.115
Tl	1.6	M9333	1000	0.08

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

#M9553 05/12/10 CSF — TCLP Extraction Fluid #1: Fill a 20L carboy w/ 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB. 4687 and 128.6mL 10N NaOH (#M9495). Dilute to 20L w/ D.I. H_2O and mix. pH: 4.93 ± 0.05.

Exp 05/12/11

#M9554 5-14-10 AMA — Borosilicon "MRI" Low level std. into 500 ml Vol flask pipet .015 mls of #M9448 (S:) or .005 mls #M9140 (B) Bring up to mark with DI H_2O ox 8/10.

M9555 5/14/10 AMA	NaCl Hydroxylamine sulfate Reagent:	Dissolve 60g NaCl (#M9082a) and 60g Hydroxylamine Sulfate (#M9249) in 500mL Milli-Q H_2O. Exp. 11/14/10
M9556 05/14/10 CSF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
M9557 05/14/10 CSF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
M9558 05/14/10 CSF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9557) into 100ml = 3.0ug/L Hg
M9559 05/14/10 CSF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
M9560 05/14/10 CSF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9557) into 100ml = 0.2ug/L Hg
M9561 05/14/10 CSF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 489) with 1part HNO3 (AB: 490)
M9562 05/14/10 CSF	Potassium Persulfate	Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water

9563 05/17/10 CSF — TCLP Extraction Fluid #1: Fill a 20L carboy w/ 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB 4687 and 128.6mL 10N NaOH (#M9495). Dilute to 20L w/ D.I. H_2O and mix. pH: 4.93 ± 0.05.

Exp. 05/17/11

#M9564 05/20/10

#M9565 05/20/1

#M9566 05/

#M9567 05/

#M9568 05/

#M9568 05

#M9569

#M9571 5 AMA

Vol. with

Vol. th

6l. 2

#M9537 05/05/10 GE — Hg Working Stds: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M9538 05/05/10 GE — Hg Alt Source Working Std: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M9539 05/05/10 GE — Hg ICV / LCSW (0.2% HNO3, HCl)
3.0ml of 100ug/L Hg (#M 9538) into 100ml = 3.0ug/L Hg

#M9540 05/05/10 GE — Hg CCV (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

05/05/10 GE
#M9541 05/05/10 GE — Hg MRL: (0.2% HNO3, HCl)
0.2ml of 100ug/L Hg (#M 9538) into 100ml = 0.2ug/L Hg

#M9542 05/05/10 GE — Hg Aqua Regia Reagent:
"Carefully" in hood, mix 3 parts HCl (AB: 484) with 1part HNO3 (AB: 486)

#M9543 05/05/10 GE — Potassium Persulfate
Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water

#M9544 05/05/10 GE — Hg Spiking Solution: Pipet 1.0mL of 1000 mg/L Hg (#M9063) → 100mL = 10mg/L Hg
10mL of 10mg/L Hg → 100mL = 1000µg/L Hg

#M9545 05/07/10 GE — Silicon 1000 ppm Fisher Lot No. 102251 Exp. 04/2012

#M9546 05/10/10 GE — Hg Working Stds: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M9547 05/10/10 GE — Hg Alt Source Working Std: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M9548 05/10/10 GE — Hg ICV / LCSW (0.2% HNO3, HCl)
3.0ml of 100ug/L Hg (#M 9547) into 100ml = 3.0ug/L Hg

0 5/03/10 GE 5)

#M9549 05/10/10 GE — Hg CCV (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

D
dili:-QH2O

#M9550 05/10/10 GE — Hg MRL: (0.2% HNO3, HCl)
0.2ml of 100ug/L Hg (#M 9547) into 100ml = 0.2ug/L Hg

#M9551 05/10/10 GE — Hg Aqua Regia Reagent:
"Carefully" in hood, mix 3 parts HCl (AB: 489) with 1part HNO3 (AB: 490)

5-11-10

#M9552 05/10/10 GE — Potassium Persulfate
Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water

#M9524 04/27/10 GFAA Base Std (25µg/L) (5% HCl, 2% HNO_3) Pipet 25mL of #M9482 into a 1L Vol. flask and bring it up to volume with Milli-Q H_2O. Exp. 04-01-11
GJE

#M9525 04/27/10 GFAA Alt. Source Std (10µg/L) (5% HCl, 2% HNO_3) Pipet 50mL of #M9483 into a 1L Vol. flask and bring it up to volume with Milli-Q H_2O. Exp. 04-01-11
GJE

#M9526 04/27/10 GFAA CCV Std (10µg/L) (5% HCl, 2% HNO_3) Pipet 10mL of #M9482 into a 1L Vol. flask and bring it up to volume with Milli-Q H_2O. Exp. 04-01-11
GJE

#M9527 4/27/10 AMA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9528 4/27/10 AMA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9529 4/27/10 AMA	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 9528) into 100ml = 3.0ug/L Hg
#9530 4/27/10 AMA	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9531 4/27/10 AMA	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 9528) into 100ml = 0.2ug/L Hg
#M9532 4/27/10 AMA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 484) with 1part HNO3 (AB: 486)
#M9533 4/27/10 AMA	Potassium Persulfate	Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water

M9534 05/03/10 Spike Sample Standard 1 Spex CertiPrep Lot No. 41-10AS
GJE Exp. 04-30-11

M9535 05/03/10 TCLP Extraction Fluid #1: Fill a 20L carboy w/ 11.4L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB: 468) and 128.6mL 10N NaOH (#M9485). Dilute to 20L w/ D.I. H_2O and mix. The pH = 4.93 ± 0.05.
LSF Exp. 05/03/11 05/03/10 LSF

#M9511 4/20/10 AMA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9512 4/20/10 AMA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9513 4/20/10 AMA	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9512) into 100ml = 3.0ug/L Hg
#M9514 4/20/10	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9515 4/20/10 AMA	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9512) into 100ml = 0.2ug/L Hg
#M9516 4/20/10 AMA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 484) with 1part HNO3 (AB: 486)
#M9517 4/20/10 AMA	Potassium Persulfate	Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water

#M9518 4/22/10 AMA — Barium Standard 1,000 mg/L spex certiprep Lot NO. 15-160 BA
Expires 4/30/11

Stannous (84)

#M9519 4/22/10 AMA — Chromium standard 10,000 mg/L spex certiprep Lot NO. 411-222CR
Expires 4/30/11

acial (#M9485) 0.05.

#M9520 4/22/10 AMA — Manganese Standard 10,000 mg/L spex certiprep Lot NO. 312-05MN
Expires 4/30/11

#M9521 4/22/10 AMA — Lead standard 10,000 mg/L spex certiprep Lot NO. AA12-28PB
Expires 4/30/11

#M9522 4/22/10 AMA — Copper Standard 10,000 mg/L spex certiprep Lot NO AC12-16CU
Expires 4/30/11

#M9523 04/27/10 15F — TCLP Extraction Fluid #1: Fill a 20L carboy w/19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB. 468) and 128.6mL 10N NaOH (#M9485). Dilute to 20L w/D.I. H_2O and mix. The pH = 4.92 ± 0.05.

Exp: 04/27/11

#M9502 4/13/10 AMA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9503 4/13/10 AMA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9504 4/13/10 AMA	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 9503) into 100ml = 3.0ug/L Hg
#M9505 4/13/10 AMA	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9506 4/13/10 AMA	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 9503) into 100ml = 0.2ug/L Hg
#M9507 4/13/10 AMA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 484) with 1part HNO3 (AB: 486)
#M9508 4/13/10 AMA	Potassium Persulfate	Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water

#M9509 04/14/10 Stannous Chloride Reagent: Into a 1000mL Vol. flask, dissolve 100g Stannous Chloride (#M94056) in 70mL HCL (AB:484) Bring up to mark with D.I. Exp. 04/14/11
GVE

#9510 04/14/10 TCLP Extraction Fluid #1: fill a 20L carboy w/ ~~20L~~ 19 04/14/10 D.I. H2O. Add 114.6mL Glacial Acetic Aced (AB:468) and 128.6mL 10N NaOH (#M9485) Dilute to 20L w/ D.I. H2O and mix. The pH = 4.93 ± 0.05.
ZSK
Exp. 04/14/11

#M9511 4/20/10 AMA
#M9512 4/20/10 AMA
#M9513 4/20/10 AMA
#M9514 4/20/10
#M9515 4/20/10 AMA
#M9516 4/20/10 AMA
#M9517 4/20/10 AMA
#M9518 4/22/1 AMA
#M9519 4/22/10 AMA
#M9520 4/22/10 AMA
#M9521 4/22/10 AMA
#M9522 4/22/10 AMA

1L Vol. with -11

#M9495 04/07/10 GE — 10N NaOH: Into a 1L Vol. Flask add 400g NaOH (#W22703) and bring up to volume with D.I. H_2O. Exp. 04-07-11

½ 1L Vol with

#M9496 04/07/10 GF — TCLP Extraction Fluid #1: Fill a 20L carboy w/19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB.468) and 128.6mL 10N NaOH (#M9495). Dilute to 20L w/D.I. H_2O and mix. The PH = 4.93 ± 0.05.
Exp. 04/07/11

a 1 L me with

~~#M9497 04/07/10 Sand Blank - J.F.~~ 04/07/10 GE
~~GE~~

#M9497 04/12/10 GE — Sodium Hydroxide: Fisher Lot No. 096813

a 1L lume with

#M9498 4-13-10 — ICSA IC&P — Into 500ml volumetric flask piped 50mls #M9212 & 15mls #M9219 Brings up to mark with DI H_2O ex 10/10.
5% HCL
5% HNO3

e with

#M9499 4-13-10 — ICSAB ICP — Into 500 ml volumetric flask piped 50mls #M9212 & 15mls #M9219 20mls #M9298 & 2.0 mls #M9188 brings up to mark with DI H_2O. ex 09/10.
5% HCL
5% HNO3

Dilute

#M9500 AMA 4/13/10 — Potassium Permanganate soln: 50g Potassium Permanganate (#M8969) dissolved into 1000mL Milli-Q H_2O.
Exp: 10/13/10

#M9501 4/13/10 AMA — NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M9082a) and 60g Hydroxylamine Sulfate (#M9249) in 500mL Milli-Q H_2O. Exp: 10/13/10

#M9502 04/14/10 GE — Stannous Chloride Reagent: Into a 1000 mL Vol. flask, dissolve 100g Stannous Chloride (#) in 70mL HCl (AB.)

04/14/10 GE

#M9482 03/30/10 GFAA Working Base Std (1000µg/L) (1% HNO_3) — Pipet 10mL of #M9471 into 1L Vol. Flask & bring up to volume with Milli-Q H_2O. Exp 04-01-11 — GUE

#M9483 03/30/10 GFAA Alt. Source Working Std (200µg/L) (1% HNO_3) — Pipet 20mL of #M9472 into 1L Vol Flask & bring up to volume with Milli-Q H_2O. Exp. 04-01-11 — GUE

#M9484 03/30/10 GFAA Base Std. (25µg/L) (1% HNO_3) — Pipet 25mL of #M9482 into a 1L Vol flask and bring up to volume with Milli-Q H_2O. Exp. 04-01-11 — GUE

#M9485 03/30/10 GFAA Alt. Source Std (10µg/L) (1% HNO_3) — Pipet 50mL of #M9483 into a 1L Vol. Flask and bring up to volume with Milli-Q H_2O. Exp. 04-01-11 — GUE

#M9486 03/30/10 GFAA CCV Std (10µg/L) (1% HNO_3) — Pipet 10mL of #M9482 into a 1L Vol. Flask and bring up to volume with Milli-Q H_2O. Exp. 04-01-11 — GUE

#M9487 04/01/10 TCLP Extraction fluid #1: Fill a 20L carboy with 19L D.I. H_2O. Add 114mL (Glacial Acetic Acid (AB: 468) and 128.6mL 10N NaOH (#M9265). Dilute to 20L with D.I. H_2O and mix. The pH = 4.93 ± 0.05. Exp. 4/01/11 — AMA

#M9488 04/6/10 GUE/LJF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9489 04/05/10 LSF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9490 04/05/10 LSF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9489) into 100ml = 3.0ug/L Hg
#M9491 04/05/10 LSF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9492 04/05/10 LSF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9489) into 100ml = 0.2ug/L Hg
#M9493 04/05/10 LSF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 484) with 1part HNO3 (AB: 486)
#M9494 04/05/10 LSF	Potassium Persulfate	Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water

#M9471 3-26-10 Inorganic Ventures, CTISPK-1 lot# D2-MEB324063
ex April-1-2011.

#M9472 3-26-10 Inorganic Ventures, CTI-6FCAl-1 lot# D2-MEB324062
ex April-1-2011.

#M9473 03/29/10 Potassium Persulfate: 50g Potassium Persulfate (#M9010) dissolved into 1000mL D.I. H_2O Exp. 09/29/10
GAE

#M9474 03/29/10 LSF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9475 03/29/10 LSF	Hg.. Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9476 03/29/10 LSF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9475) into 100ml = 3.0ug/L Hg
#M9477 03/29/10 LSF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9478 03/29/10 LSF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9475) into 100ml = 0.2ug/L Hg
#M9479 03/29/10 LSF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 484) with 1part HNO3 (AB: 486)

#M9480 03/29/10 Potassium Permanganate Soln: 50g Potassium Permanganate (#8969)
LSF dissolved into 1000mL milli Q H_2O Exp. 09/29/10

#M9481 3-30-10 ICV/LCSW Into 1 liter Vol flask pipet 10mls of #M9316
5% HNO_3 (AB: 484) 2.0mls M9212, 0.07mls #M9052. 0.5mls #M9303
5% HCL (AB. 486) Brings up to mark with DI H_2O. ex 6/10.

#M9464 03/22/10 AMA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9465 03/22/10 AMA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9466 03/22/10 AMA	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9465) into 100ml = 3.0ug/L Hg
#M9467 03/22/10 AMA	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9468 03/22/10 AMA	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9465) into 100ml = 0.2ug/L Hg
#M9469 03/22/10 AMA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 484) with 1part HNO3 (AB: 486)

#M9470 3/8-10
EA

ICAP Working Standards

5% HNO3 5%HCL

Standard name	Pipet the following respectively:
0.25	0.25 mls of standard 100 ug/L into 1000 ml volumetric flask = 0.25 ug/L std
0.5	0.50 mls of standard 100 ug/L into 1000ml volumentric flask= 0.50 ug/L std
1	1.0 mls of standard 100ug/L into 1000 ml volumentrc flask =1.00 ug/L std
5	5.0 mls of standard 100ug/L into 1000 ml volumentrc flask =5.00 ug/L std
10	10.0 mls of standard 100ug/L into 1000 ml volumentrc flask =10.0 ug/L std
20	20.0 mls of standard 100ug/L into 1000 ml volumentrc flask =20.0 ug/L std
50	50.0 mls of standard 100ug/L into 1000 ml volumentrc flask =50.0 ug/L std
100	1.0 mls of #M9298(ex 12-10) and 1.0 mls of #M9188 (ex 9/10) into 1000 ml volumectric flask= 100 ug/L std
500	5.0 mls of #M9298(ex 12/10) and 5.0 mls of #M9188 (ex 9/10) into 1000 ml volumetric flask= 500 ug/L std
1000	10.0 mls of #M9288(ex 12/10) and 10.0 mls of #M9188 (ex 9/10) into 1000 ml volumetric flask= 1000 ug/L std
10,000	10.0 mls of #M9298(ex 12/10), 10.0 mls of #M9188 (ex 9/10) into 1000 ml=10,000 ug/L std
100k	10 mls of #M8961 (Cu) (ex 5/10) , 10 mls of #M8966 (Mn)(ex 5/10) , 10 mls of #M9057 (Cr)(ex 6/10), 10 mls #M8965 (Pb)(ex 5/10) 100 mls #M9276 (Zn)(ex 12/10) = 100,000 ug/L
100,000	10 mls of #M9218 (Mg) (ex 10/10) , 10 mls of #M9219 (Fe) (ex 10/10) ,10 mls of #M9373 (Ca)(ex 1/11),10 mls #M9374 (AL)(ex 1/11) into 1000 ml vol flask = 100,000 ug/l std
500,000	50 mls of #M9218 (Mg) (ex 10/10) , 50 mls of #M9219 (Fe) (ex 10/10) ,50 mls of #M9373 (Ca)(ex 1/11).50 mls #M9374 (AL)(ex 1/11) into 1000 ml vol flask = 500,000 ug/l std
1000k	100 mls of #M9218 (Mg) (ex 10/10) , 100 mls of #M9219 (Fe) (ex 10/10) ,100 mls of #M9373 (Ca)(ex 1/11),100 mls #M9374 (AL)(ex 1/11) into 1000 ml vol flask = 1,000,000 ug/l std
	Bring the 1000 ml volumetric up to mark with DI H2O ok 5/10

#M94
#M94
#M9473 GE
#M9474 CSF
#M9475 CSF
#M9476 CSF
#M9477 CSF
#M9478 CSF
#M9479 CSF
#M9480 CSF
#M9481
2% HNO3
2% HCL

#M9455 3-15-10 LFS Spex Certiprep Lot # 15-114JB.
2ml

#M9456 03/17/10 LSF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9457 03/17/10 LSF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9458 03/17/10 LSF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 9450) into 100ml = 3.0ug/L Hg
#M9459 03/17/10 LSF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9460 03/17/10 LSF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 9450) into 100ml = 0.2ug/L Hg
#M9461 03/17/10 LSF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 475) with 1part HNO3 (AB: 483)

#M9462 3-18-10 CCV std for ICAP. Auto 1 Liter volumetric
2 2
5% HNO3 pipet 10 mls of #M9455, 1ml of #M9218, #M9164,
5% HCL #M8967 and #~~10.0~~ 0.5 mls of #M9219 Bring up to mark
w. the DI H_2O. ~~AB 3-23-10~~ ex 5/10.

#M9463 3-18-10 ICV/LCSW ICP Auto 1 Liter Vol flask pipet
2 5% HNO3 10 mls of #M9220, 0.05 mls #M9052, 0.5 mls M9278,
5% HCL 0.5 mls M9140. ~~AB 3-23-10 #M9441 pipette~~ Bring up to mark with
DI H_2O. ex 5/10.
* 1 ml. of M8964, M8967, M9218, M9219.

#M9447 03/05/10
AMA 5% HNO_3
5% HCl

LOD Check Base SPIKE PREPARATION 3010 Diss. **2x**

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	1.2	M9052	1000	0.06
Al	2.4	M8967	**10000**	0.012
Ba	0.8	M8959	1000	0.04
Be	0.22	M9334	1000	0.011
Cd	0.42	M9055	1000	0.021
Co	0.54	M9299	1000	0.027
Cr	1.4	M9273	1000	0.07
Cu	2.6	M8961	**10000**	0.013
Mg	3.6	M9218	**10000**	0.018
Mn	1.2	M9332	1000	0.06
Mo	0.6	M9302	1000	0.03
Ni	1.8	M9274	1000	0.09
Pb	3.6	M8965	**10000**	0.018
Sb	6	M9053	1000	0.3
V	0.8	M9056	1000	0.04
Zn	1.4	M9276	1000	0.07
K	560	M9222	**10000**	2.8
Na	140	M9280	**10000**	0.7
B	6	M9140	1000	0.3
Si	12	M9121	1000	0.6
As	16	M9058	1000	0.8
Ca	10	M8964	**10000**	0.05
Fe	4	M9219	**10000**	0.02
Se	4.6	M9054	1000	0.23
Tl	5.4	M9333	1000	0.27

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

#M9448 3-8-10 Silicon 1000mg/L Fisher Lot# 090135 ex 1/2011
JA

#M9449 3/11/10
AMA

Hg Working Stds: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M9450 3/11/10
AMA

Hg Alt Source Working Std: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M9451 3/11/10
AMA

Hg ICV / LCSW (0.2% HNO3, HCl)
3.0ml of 100ug/L Hg (#M9450) into 100ml = 3.0ug/L Hg

#M9452 3/11/10
AMA

Hg CCV (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

#M9453 3/11/10
AMA

Hg MRL: (0.2% HNO3, HCl)
0.2ml of 100ug/L Hg (#M9450) into 100ml = 0.2ug/L Hg

#M9454 3/11/10 AMA

Hg Aqua Regia Reagent: "Carefully" in hood, mix 3 parts HCl (AB: 475) with 1part HNO3 (AB: 483)

#M9455 3-15-10
JA

#M9456 03/17/10
LSF

#M9457 03/17/10
LSF

#M9458 03/17/10
LSF

#M9459 03/17/10
LSF

#M9460 03/17/10
LSF

#M9461 03/17/10
LSF

#M9462 3-18-10
JA
5% HNO_3
5% HCL

#M9463 3-18-10
JA 5% HNO_3
5% HCL

#M9444 03/04/10

AMA 5% HNO_3

MDL Check Base SPIKE PREPARATION Diss **2x**

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	1	M9278	1000	0.05
Sn	1.6	M9281	**1000**	0.08
Sr	0.6	M9300	1000	0.03
Ti	1.2	M9277	1000	0.06
W	10	M9275	1000	0.5

of This base standard, pipet 10mls into 500 mL Volumetric to create a working standard or 1mL into 50mL digestion tube for a digested working standard. Exp 12/15/10

#M9445 03/04/10

AMA 5% HNO_3

LOQ Check Base SPIKE PREPARATION diss **2x**

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	3.2	M9278	1000	0.16
Sn	5	M9281	**1000**	0.25
Sr	2.2	M9300	1000	0.11
Ti	4	M9277	1000	0.2
W	30	M9275	1000	1.5

of This base standard, pipet 10mls into 500 mL Volumetric to create a working standard or 1mL into 50mL digestion tube for a digested working standard. Exp 12/15/10

#M9446 03/05/10

AMA 5% HNO_3

5% HCl

LOQ Check Base SPIKE PREPARATION 3010 Diss. **2x**

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	4	M9052	1000	0.2
Al	8.2	M8967	**10000**	0.041
Ba	2.4	M8959	1000	0.12
Be	0.72	M9334	1000	0.036
Cd	1.42	M9055	1000	0.071
Co	1.8	M9299	1000	0.09
Cr	4.2	M9273	1000	0.21
Cu	8.8	M8961	**10000**	0.044
Mg	12.2	M9218	**10000**	0.061
Mn	4.2	M9332	1000	0.21
Mo	2.2	M9302	1000	0.11
Ni	5.6	M9274	1000	0.28
Pb	11.6	M8965	**10000**	0.058
Sb	19.8	M9053	1000	0.99
V	2.8	M9056	1000	0.14
Zn	4.8	M9276	1000	0.24
K	1860	M9222	**10000**	9.3
Na	460	M9280	**10000**	2.3
B	22	M9140	1000	1.1
Si	38	M9121	1000	1.9
As	50	M9058	1000	2.5
Ca	34	M8964	**10000**	0.17
Fe	13	M9219	**10000**	0.065
Se	15.6	M9054	1000	0.78
Tl	18	M9333	1000	0.9

of This base standard, pipet 10mls into 500 mL Volumetric to create a working standard or 1mL into 50mL digestion tube for a digested working standard. Exp

#M9441 03/04/10
AMA 5% HNO_3

✓LOQ Check Base SPIKE PREPARATION 3050 0.5 **2x**

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	5.2	M9278	1000	0.26
Sn	6.8	M9281	**1000**	0.34
Sr	11	M9300	1000	0.55
Ti	3.8	M9277	1000	0.19
W	30	M9275	1000	1.5

of This base standard, pipet 10mls into 500mL volumetric to create a working standard or 1mL into 50mL digestion tube for a digested working standard. Exp 12/15/10

#M9444 03/04/10
AMA 5% HNO_3

#M9442 03/04/10
AMA 5% HNO_3

MDL Check Base SPIKE PREPARATION 3010 **2x**

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	1	M9278	1000	0.05
Sn	0.81	M9281	**1000**	0.0405
Sr	2	M9300	1000	0.1
Ti	1	M9277	1000	0.05
W	4	M9275	1000	0.2

of This base standard, pipet 10mls into 500mL volumetric to create a working standard or 1mL into 50mL digestion tube for a digested working standard. Exp 12/15/10

#M9445 03/04/10
AMA 5% HNO_3

#M9443 03/04/10
AMA 5% HNO_3

LOQ Check Base SPIKE PREPARATION 3010 **2x**

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	3.6	M9278	1000	0.18
Sn	6	M9281	**1000**	0.3
Sr	6.8	M9300	1000	0.34
Ti	3.6	M9277	1000	0.18
W	28	M9275	1000	1.4

of This base standard, pipet 10mls into 500mL volumetric to create a working standard or 1mL into 50mL digestion tube for a digested working standard. Exp. 12/15/10

#M9446 03/05/10
AMA 5% HNO_3
5% HCl

LOC

#M9438 03/04/10
AMA 5% HNO_3

LOQ Check Base SPIKE PREPARATION 3050 2.0 **2x**

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	3.6	m9278	1000	0.18
Sn	6.2	m9281	**1000**	0.31
Sr	1.48	m9300	1000	0.074
Ti	5.2	m9277	1000	0.26
W	28	m9275	1000	1.4

of This base standard, pipet 10mls into 500mL volumetric to create a working standard or 1mL into 50mL digestion tube for a digested working standard. Exp 12/15/10

#M9439 03/04/10
AMA 5% HNO_3

LOD Check Base SPIKE PREPARATION 3050 2.0 **2x**

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	1	m9278	1000	0.05
Sn	2	m9281	**1000**	0.1
Sr	0.44	m9300	1000	0.022
Ti	1.6	m9277	1000	0.08
W	8	m9275	1000	0.4

of This base standard, pipet 10mls into 500mL volumetric to create a working standard or 1mL into 50mL digestion tube for a digested working standard. Exp 12/15/10

#M9440 3/4/10
AMA 5% HNO_3

MDL Check Base SPIKE PREPARATION 3050 0.5 **2x**

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	1.6	M9278	1000	0.08
Sn	2	M9281	**1000**	0.1
Sr	3.2	M9300	1000	0.16
Ti	1.2	M9277	1000	0.06
W	8	M9275	1000	0.4

of This base standard, pipet 10mls into 500mL volumetric to create a working standard or 1mL into 50mL digestion tube for a digested working standard. Exp 12/15/10

#M9431 03/02/10 AMA — 1% conc HNO_3, 1% conc HCl, 3/2/10 AMA

LOQ Check Base SPIKE PREPARATION 3050 0.5 **2x**

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	4.8	M9052	1000	0.24
Al	10	M8967	**10000**	0.05
Ba	3.34	M8959	1000	0.167
Be	1.1	M9334	1000	0.055
Cd	0.8	M9055	1000	0.04
Co	2	M9299	1000	0.1
Cr	5.2	M9273	1000	0.26
Cu	10.6	M8961	**10000**	0.053
Mg	114	M9218	**10000**	0.57
Mn	9.4	M9332	1000	0.47
Mo	4.2	M9302	1000	0.21
Ni	3.6	M9274	1000	0.18
Pb	8.2	M8965	**10000**	0.041
Sb	22	M9053	1000	1.1
V	3.4	M9056	1000	0.17
Zn	4	M9276	1000	0.2
K	460	M9222	**10000**	2.3
Na	340	M9280	**10000**	1.7
B	40	M9140	1000	2
~~Si~~	~~620~~	~~M9121~~	~~1000~~	~~31~~ 03/02/10 AMA
As	24	M9058	1000	1.2
Ca	48	M8964	**10000**	0.24
Fe	52	M9219	**10000**	0.26
Se	20	M9054	1000	1
Tl	14	M9333	1000	0.7

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

#M9438 03/04/10 AMA 5% HNO_3

#M9439 03/04/10 AMA 5% HNO_3

#M9440 3/4/10 AMA 5% HNO_3

#M9432 03/04/10 CAE — Hg Working Stds: (0.2% HNO_3, HCl)
- 1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg
- 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
- 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
- 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
- 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
- 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
- 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
- 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M9433 03/04/10 CAE — Hg Alt Source Working Std: (0.2% HNO_3, HCl)
- 1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
- 1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M9434 03/04/10 CAE — Hg ICV / LCSW (0.2% HNO_3, HCl): 3.0ml of 100ug/L Hg (#M9433) into 100ml = 3.0ug/L Hg

#M9435 03/04/10 CAE — Hg CCV (0.2% HNO_3, HCl)
- 1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg
- 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
- 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

#M9436 03/04/10 CAE — Hg MRL: (0.2% HNO_3, HCl): 0.2ml of 100ug/L Hg (#M9433) into 100ml = 0.2ug/L Hg

#M9437 03/04/10 CAE — Hg Aqua Regia Reagent: "Carefully" in hood, mix 3 parts HCl (AB: 475) with 1part HNO_3 (AB: 483)

#M9426 03/02/10 Be working std. Pipet 1.0mL of 1,000mg/L Be (#M9334) into a 100mL vol. flask.
AMA (1% HNO_3, HCl) Bring up to volume with D.I. H_2O. Exp. 01/15/2011

#M9427 03/02/10 Cd working std. Pipet 1.0mL of 1,000mg/L Cd (#M9055) into a 100mL vol. flask.
AMA (1% HNO_3, HCl) Bring up to volume with D.I. H_2O. Exp. 6/30/10

#M9428 03/02/10 Cu working std. Pipet 1.0mL of 10,000mg/L Cu (#M8961) into a 100mL vol. flask.
AMA (1% HNO_3, HCl) Bring up to volume with D.I. H_2O. Exp. 5/15/10

#M9429 03/02/10 Mg working std. Pipet 1.0mL of 10,000 mg/L Mg (#M9218) into a 100mL vol. flask.
AMA (1% HNO_3, HCl) Bring up to volume with D.I. H_2O. Exp. 10/15/10

#M9430 03/02/10
AMA 1% 10% HNO_3
1% 10% HCl
3/2/10 AMA

MDL Check Base SPIKE PREPARATION 305 0.5 **2x**

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	1.4	M9052	1000	0.07
Al	4	M8967	**10000**	0.02
Ba	1	M8959	1000	0.05
Be	0.34	M9334	1000	0.017
Cd	0.2	M9055	1000	0.01
Co	0.6	M9299	1000	0.03
Cr	1.6	M9273	1000	0.08
Cu	3.2	M8961	**10000**	0.016
Mg	34	M9218	**10000**	0.17
Mn	2.8	M9332	1000	0.14
Mo	1.2	M9302	1000	0.06
Ni	1.2	M9274	1000	0.06
Pb	2.4	M8965	**10000**	0.012
Sb	6	M9053	1000	0.3
V	1	M9056	1000	0.05
Zn	2	M9276	1000	0.1
K	140	M9222	**10000**	0.7
Na	100	M9280	**10000**	0.5
B	12	M9140	1000	0.6
Si	186	M9121	1000	9.3
As	8	M9058	1000	0.4
Ca	14	M8964	**10000**	0.07
Fe	16	M9219	**10000**	0.08
Se	6	M9054	1000	0.3
Tl	4	M9333	1000	0.2

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

#M9415 03/01/10 GJE	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg	#M9426 03/02/ AMA #M9427 03/02/ AMA
#M9416 03/01/10 GJE	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg	#M9428 03/02/ AMA
#M9417 03/01/10 GJE	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 9416) into 100ml = 3.0ug/L Hg	#M9429 03/02/1 AMA
#M9418 03/01/10 GJE	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg	#M9430 03/02/1 AMA 1% 1030 HNO 1% 1045 HCL 3/2/10 AMA
#M9419 03/01/10 GJE	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 9416) into 100ml = 0.2ug/L Hg	
#M9420 03/01/10 GJE	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 475) with 1part HNO3 (AB: 482)	

#M9421 03/01/10 GJE Potassium Permanganate Soln: 50g Potassium Permanganate (#M8969) dissolved into 1000mL Milli-Q H_2O Exp. 09/01/10

#M9422 03/01/10 GJE CERA CCV Std (1% HNO_3) Pipet 80mL of #M9236 into a 200mL Vol. flask and bring up to volume with Milli-Q H_2O. Exp. 04-01-10

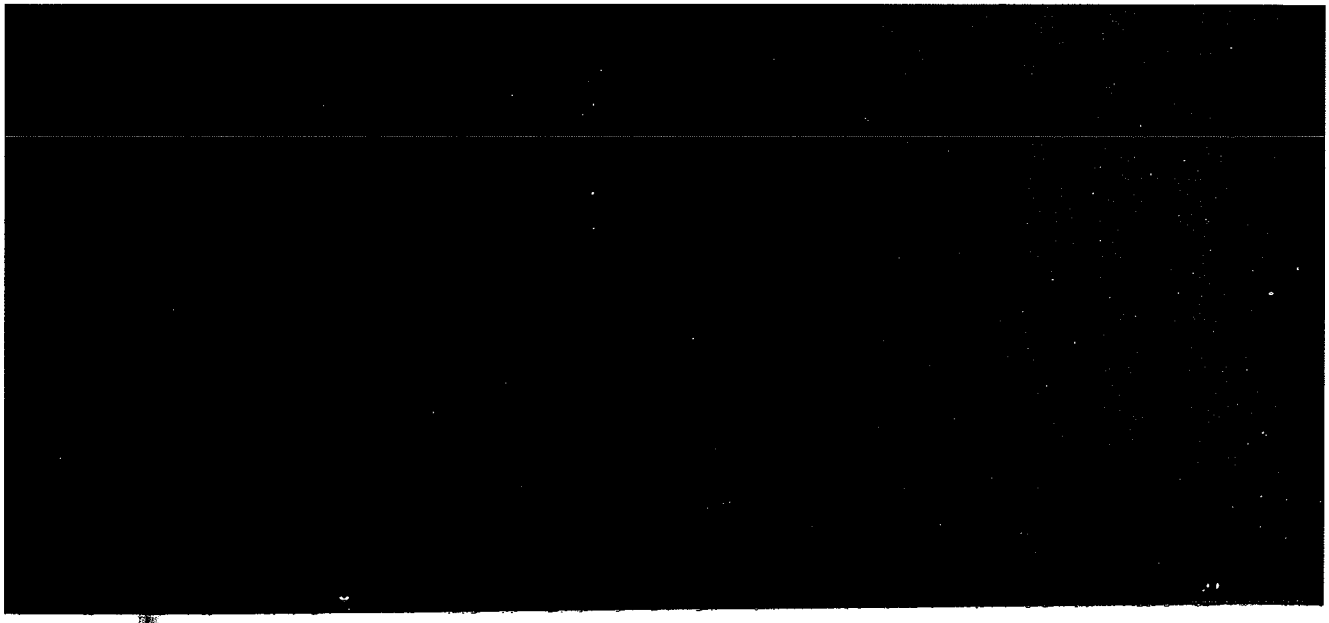
9423 03/01/10 ISF NaCl Hydroxylamine Sulfate Reagent - Dissolve 60g NaCl (#M8080Z a) 03/01/10 ISF and 60g ~~Hydroxylamine~~ Hydroxylamine Sulfate (#M9742) in 500mL Milli-Q H_2O. Exp 09/01/10

9424 03/01/10 ISF ICP Spiking Solution (24 mins.) (1% HNO_3) Expires: 05/15/2010 Into a 250mL Vol. Flask pipet the following and bring up to volume w/ DI H_2O
0.5mL of 1,000 mg/L Be (#M9334)
10 mL of 10,000 mg/L Cu (#M8961)
5mL of 1,000 mg/L Ni (#M9274)
10mL of 10,000 mg/L Zn (#M9963)

9425 03/02/10 AMA AL Working Std. (1% HNO_3, HCl) Pipet 1.0mL of 10,000 mg/L AL (#M8967) into a 100mL vol. flask. Bring up to volume with D.I. H_2O. Exp. 5/15/10

3/10

[redacted]



#M9404 ICSA. Dup 500ml Vol flask pipet 25mls #M9212 7.5mls of #M9219 Bring up to mark with DI H_2O. SK 10/10
5% HCl
5% HNO_3

#M9405 02/18/10 GE Tin (II) Chloride Dihydrate Fisher Lot No. 093481 500g f.w. 225.65

#M9406 02/21/10 AmA TCLP Extraction Fluid #1 - Fill a 20L carboy with 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB: 468) and 128.6mL 10N NaOH (#M9033). Dilute to 20L with D.I. H_2O and mix. The pH = 4.93 ± 0.05. Exp. 02/21/11

#M9407 02/22/10 GE Potassium Persulfate: 50g Potassium Persulfate (#M9010) dissolved into 1000mL D.I. H_2O. Exp. 08/22/10

#M9408 02/22/10 GE	Hg Working Stds: (0.2% HNO_3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9409 02/22/10 GE	Hg Alt Source Working Std: (0.2% HNO_3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9410 02/22/10 GE	Hg ICV/CCV/LCSW: (0.2% HNO_3, HCl)	3.0ml of 100ug/L Hg (#M9409) into 100ml = 3.0ug/L Hg
#M9411 02/22/10 GE	Hg MRL:	0.2ml of 100ug/L Hg (#M9409) into 100ml = 0.2ug/L Hg
#M9412 02/22/10 GE	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 475) with 1part HNO_3 (AB: 482)

#M9413 02/22/10 GE Hg Soil MDL/LOQ Spiking Solution: (0.2% HNO_3, HCl) Pipet 10mL of 100 µg/L Hg (#M9409) into a 100mL Vol. Flask = 10 µg/L Hg

#M9414 2-23-10 Ⅱ 5% HNO_3 5% HCl. ICSA (TCLP) Dup to 500ml Vol flask pipet 50mls of M9219. & 7.5mls of #M9219 Bring up to mark with DI H_2O.

#M9399 2-9-10
5% HNO3
5% HCl
LOQ Base std
3050

LOQ Check Base SPIKE PREPARATION 3050 2X calculated LOQ

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	Log #	LOQ (ug/L)	Std Concmount (mL) to (mg/L)	pipet into 1 L	
Ag	M9052	4.4	1000	0.22	
Al	M8967	10	10000	0.05	
As	M9058	36	1000	1.8	
Ba	M8959	2.2	1000	0.11	
Be	M9334	0.98	1000	0.049	
Ca	M8964	38	10000	0.19	
Cd	M9055	1.6	1000	0.08	
Co	M9299	4	1000	0.2	
Cr	M9273	6	1000	0.3	
Cu	M8961	16	10000	0.08	
Fe	M9219	82	10000	0.41	
Mg	M9218	32	10000	0.16	
Mn	M9332	4.2	1000	0.21	
Mo	M9302	3.8	1000	0.19	
Ni	M9274	4.8	1000	0.24	
Pb	M8965	12	10000	0.06	
Sb	M9053	22	1000	1.1	
Se	M9054	16	1000	0.8	
Tl	M9333	12	1000	0.6	
V	M9056	2	1000	0.1	
Zn	M9276	10	1000	0.5	
Na	M9280	1000	10000	5	
K	M9222	2800	10000	14	
B	M9140	58	1000	2.9	
Si	M9121	108	1000	5.4	10 mls into 500 or 1ml into 50mls

Exp.4/1/2010

#M9404 ICSA
5% HCl
5% HNO3

#M9405 02/18/10 Tin (
GE f.w.

#M9406 02/21/10 ICP E
AnA

#M9407 02/22/10 Potas
GE

#M9408 02/22/10 Hg
GE (0.

#M9409 02/22/10 Hg
GE (0.

#M9410 02/22/10 Hg
GE (0.

#M9411 02/22/10 Hg
GE

#M9412 02/22/10 Hg
GE

#M9413 02/22/10 Hg Sa
GE Lo

#M9414 2-23-10
5% HNO3
5% HCl.

M9400 2-9-10 MDL (working) Check Std 3050 into 500 ml Vol flask pipet 10mls #M9398. Brings up to mark with DI H_2O. ok 4/10
5% HNO3
5% HCl

#M9401 2-9-10 LOQ (working) Check Std 3050 into 500 ml Vol flask pipet 10mls #M9399 Brings up to mark with DI H_2O. ok 4/10
5% HNO3
5% HCl

#M9402 2-18-10. ICSAB Na, K into ~~500~~ 250 ml Vol flask Pipet ~~50~~ 25 mls of ~~#M9219~~ #M9212 (#2-18-10 ok), ~~75~~ 25 mls of #M9219 + 25 mls of #M9058 #M9060 brings up to mark with DI H_2O. ok 6/10
5% HNO3
5% HCl

#M9403 2-18-10 MRL (working) ICP DOD Dil 500 ml Vol flask pipet 10mls of #M9338 ~~of~~ then Brings up to Volume ok 5/10
5% HNO3
5% HCl

ipet the
ne with D.I.

= 40 µg/L Tl
) = 40 µg/L Pb
) = 2 µg/L Ag

pipet the
volume with
-10
#M9333) = 130 µg/L Tl
#M9377) = 130 µg/L Pb
M9376) = 6.3 µg/L Ag

10mls of
DI H2O
ex 4/10

Base

#M9396 LOQ Check
5% HCL 2-8-10
5% HNO3

LOQ Check Base SPIKE PREPARATION 3010 2X

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	Log #	LOQ (ug/L)	Std Conc (mg/L)	Amount (mL) to pipet into 1 L	
Ag	M9052	4	1000	0.2	
Al	M8967	26	10000	0.13	
As	M9058	26	1000	1.3	
Ba	M8959	1.8	1000	0.09	
Be	M9334	0.86	1000	0.043	
Ca	M8964	100	10000	0.5	
Cd	M9055	0.8	1000	0.04	
Co	M9299	8.6	1000	0.43	
Cr	M9273	4	1000	0.2	
Cu	M8961	7.6	10000	0.038	
Fe	M9219	58	10000	0.29	
Mg	M9218	22	10000	0.11	
Mn	M9332	4	1000	0.2	
Mo	M9302	2.4	1000	0.12	
Ni	M9274	4.2	1000	0.21	
Pb	M8965	9.8	10000	0.049	
Sb	M9053	28	1000	1.4	
Se	M9054	16	1000	0.8	
Tl	M9333	10	1000	0.5	
V	M9056	3.4	1000	0.17	
Zn	M9276	11.8	1000	0.59	
Na	M9280	680	10000	3.4	
K	M9222	1800	10000	9	
B	M9140	36	1000	1.8	
Si	M9121	118	1000	5.9	10 mls into 500

Exp.4/1/2010

#M9397 LOQ Check Into 500ml vol flask pipet 10 mls of #M9396.
2-9-10 Bring up to mark w. DI H2O.
5% HCL
5% HNO3

#M9398 MDL V 3050. Base std
5% HCL
5% HNO3 2-9-10

MDL Check Base SPIKE PREPARATION for 3050 2X

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	Log Book Number & Expire Date	MDL (ug/L)	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	M9052, 6/30/10	1.4	1000	0.07
Al	M8967, 5/15/10	2	10000	0.01
As	M9058, 6/30/10	10	1000	0.5
Ba	M8959, 5/15/10	0.6	1000	0.03
Be	M9334, 1/15/11	0.3	1000	0.015
Ca	M8964, 5/15/10	12	10000	0.06
Cd	M9055, 6/30/10	0.6	1000	0.03
Co	M9299, 12/30/10	1.2	1000	0.06
Cr	M9273, 12/15/10	2	1000	0.1
Cu	M8961, 5/15/10	4.8	10000	0.024
Fe	M9219, 10/15/10	24	10000	0.12
Mg	M9218, 10/15/10	10	10000	0.05
Mn	M9332, 1/15/11	1.2	1000	0.06
Mo	M9302, 12/30/10	1.2	1000	0.06
Ni	M9274, 12/15/10	1.4	1000	0.07
Pb	M8965, 5/15/10	4	10000	0.02
Sb	M9053, 6/30/10	6	1000	0.3
Se	M9054, 6/30/10	6	1000	0.3
Tl	M9333, 1/15/11	4	1000	0.2
V	M9056, 6/30/10	0.8	1000	0.04
Zn	M9276, 12/15/10	2	1000	0.1
Na	M9280, 12/15/10	400	10000	2
K	M9222, 10/30/10	800	10000	4
B	M9140, 8/30/10	18	1000	0.9
Si	M9121, 4/1/10	32	1000	1.6

10mls into 500 of 1 ml into 50
or 1ml into 50

Expires 4/1/2010

U15/10015F

KAT #M9392 02/17/10 3020 GFAA LOD Spiking Solution (1% HNO3) Into a 500 mL Vol. Flask, pipet the following and bring up to volume with D.I. H2O. Exp. 05-05-10
GVE
0.02mL of 1,000 mg/L Tl (#M9333) = 40 µg/L Tl
0.2 mL of 100 mg/L Pb (#M9377) = 40 µg/L Pb
0.1mL of 10 mg/L Ag (#M9376) = 2 µg/L Ag

#M9393 02/17/10 3020 GFAA LOQ Spiking Solution: Into a 500 mL Vol. Flask, pipet the following and bring up to volume with D.I. H2O. Exp. 05-05-10
GVE (1% HNO3)
0.065mL of 1000 mg/L Tl (#M9333) = 130 µg/L Tl
0.65mL of 100 mg/L Pb (#M9377) = 130 µg/L Pb
0.315mL of 10 mg/L Ag (#M9376) = 6.3 µg/L Ag

#M9394 MDL Check 3010 Base 2-08-10
5% HNO3
5% HCl

MDL Check Base SPIKE PREPARATION for 3010 2X calced mdl

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	Log Book Number & Expire Date	MDL (ug/L)	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	M9052, 6/30/10	2	1000	0.1
Al	M8967, 5/15/10	8	10000	0.04
As	M9058, 6/30/10	8	1000	0.4
Ba	M8959, 5/15/10	0.6	1000	0.03
Be	M9334, 1/15/11	0.26	1000	0.013
Ca	M8964, 5/15/10	30	10000	0.15
Cd	M9055, 6/30/10	0.2	1000	0.01
Co	M9299, 12/30/10	2.6	1000	0.13
Cr	M9273, 12/15/10	2	1000	0.1
Cu	M8961, 5/15/10	2.4	10000	0.012
Fe	M9219, 10/15/10	18	10000	0.09
Mg	M9218, 10/15/10	6	10000	0.03
Mn	M9332, 1/15/11	2	1000	0.1
Mo	M9302, 12/30/10	0.8	1000	0.04
Ni	M9274, 12/15/10	1.2	1000	0.06
Pb	M8965, 5/15/10	3	10000	0.015
Sb	M9053, 6/30/10	8	1000	0.4
Se	M9054, 6/30/10	4	1000	0.2
Tl	M9333, 1/15/11	4	1000	0.2
V	M9056, 6/30/10	1	1000	0.05
Zn	M9276, 12/15/10	3.6	1000	0.18
Na	M9280, 12/15/10	200	10000	1
K	M9222, 10/30/10	600	10000	3
B	M9140, 8/30/10	10	1000	0.5
Si	M9121, 4/1/10	36	1000	1.8

ex 4/10

10 ml into 500 ml

#M9395 MDL Check Std
5% HNO3 2-9-10
5% ~~HNO3~~ HCl
#2B10

Into 500 mL Vol flask pipet 10mL of #M9394 Bring up to mark with DI H2O
ex 4/10

#M9396 LOQ Ch
5% HCl 2-9
5% HNO3

#M9397 LOQ Ch
2-9-10
5% HCl
5% HNO3

#M9398 MDL
5% HCl
5% HNO3 2-

olve 100g Stannous HCL (AB:471). Exp. 02/04/11

19052) into a 100 mL ith D.I. H_2O.

(#M8965) into a 100mL with D.I. H_2O.

the following e with D.I H_2O. :
µg/L Ag
µg/L Sb
60µg/L Se
50µg/L Tl
10µg/L Pb
140µg/L As

llowing and then
):
/L Ag
g/L Sb
µg/L Se
µg/L Tl
µg/L Pb
0µg/L As

he following and then
I. H_2O:
/L Ag
µg/L Sb
0µg/L Se
50µg/L Tl
10µg/L Pb
160µg/L As

M9381 02/10/10 GFAA DOD LOQ Spiking Soln: Into a 1L Vol. Flask, pipet the following and then
GVE (1% HNO_3) bring up to volume with D.I. H_2O.
Exp. 05-15-10 2.1mL of 10mg/L Ag (#M9376) = 21µg/L Ag
0.19mL of 1000mg/L Sb (#M9053) = 190µg/L Sb
0.52mL of 1000mg/L Se (#M9054) = 520µg/L Se
0.16mL of 1000mg/L Tl (#M9333) = 160µg/L Tl
1.3mL of 100mg/L Pb (#M9377) = 130µg/L Pb
0.54mL of 1000mg/L As (#M9058) = 540µg/L As

M9382 02/15/10 Potassium Permanganate Soln: 5g Potassium Permanganate (#M9869) dissolved
GVE into 1000mL M.I.L.Q H_2O. Exp. 08-15-10

M9383 02/15/10 GVE	Hg Working Stds: (0.2% HNO_3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
M9384 02/15/10 GVE	Hg Alt Source Working Std: (0.2% HNO_3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
M9385 02/15/10 GVE	Hg ICV/CCV/LCSW: (0.2% HNO_3, HCl)	3.0ml of 100ug/L Hg (#M9384) into 100ml = 3.0ug/L Hg
M9386 02/15/10 GVE	Hg MRL:	0.2ml of 100ug/L Hg (#M9384) into 100ml = 0.2ug/L Hg
M9387 02/15/10 GVE	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 471) with 1part HNO_3 (AB: 476)

M9388 02/15/10 MDL ✓ Water Hg - Into a 100mL Vol. flask, pipet 0.04mL of 100µg/L Hg
GVE (0.2% HNO_3, HCl) (#M9384) and bring up to volume with D.I. H_2O. Exp 02-15-11

M9389 02/15/10 LOQ ✓ Water Hg - Into a 100mL Vol. Flask, pipet 0.14mL of 100µg/L Hg
GVE (0.2% HNO_3, HCl) (#M9384) and bring up to volume with D.I. H_2O.

M9390 02/15/10 Hg Soil MDL Spiking Soln: Pipet 10mL of 100µg/L (#M9384 #M9387) into a 100mL
GVE (0.2% HNO_3, HCl) Vol. Flask = 10µg/L Hg 02/15/10 GVE

M9391 02/15/10 TCLP Extraction Fluid #1: Fill a 20L carboy w/ 19L D.I. H_2O. Add 114mL Glacial
GVE Acetic Acid (AB. 468) and 128.6mL 10N NaOH (#M9033).
Dilute to 20L with D.I. H_2O and mix. The pH = 4.93 ± 0.05.

3-3-10

3-3-10

#M9373 02/03/10 GUE — Calcium 10,000 mg/L Spex CertiPrep Lot No. AC 11-223CA Expires: 01-30-11

#M9374 02/03/10 GUE — Aluminum 10,000 mg/L Spex CertiPrep Lot No. Z-11-219AL Expires: 01-30-11

#M9375 02/04/10 GUE — Stannous Chloride Reagent: Into a 1000 mL Vol. Flask, dissolve 100g Stannous Chloride (#M9130a) in 70 mL HCL (AB-471). Bring up to mark with D.I. H_2O. Exp. 02/04/11

#M9376 02/10/10 GUE — GFAA Ag Working Std. (1% HNO_3) Pipet 1.0 mL of 1000 mg/L Ag (#M9052) into a 100 mL Vol. flask. Bring up to volume with D.I. H_2O. Exp. 06-30-10

#M9377 02/10/10 GUE — GFAA Pb Working Std. (1% HNO_3) Pipet 1.0 mL of 10,000 mg/L ~~Ag~~ Pb (#M8965) into a 100 mL Vol. flask. Bring up to volume (2nd time GUE) with D.I. H_2O. Exp. 05-15-10

#M9378 02/10/10 GUE — GFAA MDL✓ Spiking Soln (1% HNO_3) Exp. 05-15-10: Into a 1L Vol. flask, pipet the following and then bring up to volume with D.I H_2O.:
- 0.7mL of 10mg/L Ag (#M9376) = 7 µg/L Ag
- 0.04mL of 1000 mg/L Sb (#M9053) = 40 µg/L Sb
- 0.16mL of 1000 mg/L Se (#M9054) = 160 µg/L Se
- 0.05mL of 1000 mg/L Tl (#M9333) = 50 µg/L Tl
- 0.6mL of 100 mg/L Pb (#~~M8965~~ M9377 02/10/10 GUE) = 60 µg/L Pb
- 0.14mL of 1000 mg/L As (#M9058) = 140 µg/L As

#M9379 02/10/10 GUE — GFAA LOQ Spiking Soln (1% HNO_3) Exp. 05-15-10: Into a 1L Vol. flask, pipet the following and then bring up to volume with D.I. H_2O:
- 2.3mL of 10mg/L Ag (#M9376) = 23 µg/L Ag
- 0.14mL of 1000 mg/L Sb (#M9053) = 140 µg/L Sb
- 0.55mL of 1000 mg/L Se (#M9054) = 550 µg/L Se
- 0.18mL of 1000 mg/L Tl (#M9333) = 180 µg/L Tl
- 2.0mL of 100 mg/L Pb (#M9377) = 200 µg/L Pb
- 0.47mL of 1000 mg/L As (#M9058) = 470 µg/L As

#M9380 02/10/10 GUE — GFAA DOD MDL✓ Spiking Soln (1% HNO_3) Exp. 05-15-10: Into a 1L Vol. flask, pipet the following and then bring up to volume with D.I. H_2O:
- 0.6mL of 10mg/L Ag (#M9376) = 6 µg/L Ag
- .06mL of 1000 mg/L Sb (#M9053) = 60 µg/L Sb
- 0.16mL of 1000 mg/L Se (#M9054) = 160 µg/L Se
- 0.05mL of 1000 mg/L Tl (#M9333) = 50 µg/L Tl
- 0.4mL of 100 mg/L Pb (#M9377) = 40 µg/L Pb
- 0.16mL of 1000 mg/L As (#M9058) = 160 µg/L As

#M9381 02 GUE

#M9361 01/27/10 GVE — NaCl Hydroxylamine Sulfate Reagent - Dissolve 60g NaCl (#M9282a) and 60g Hydroxylamine Sulfate (#M9574) in 500mL Milli-Q H_2O. Exp. 07/27/10

#M9362 01/28/10 GVE — Pd/Mg Matrix Modifier: Into a 50 mL Vol. flask, pipet 15mL #M9346 and 5mL of #M9301. Bring up to volume with Milli-Q H_2O. Exp. 12-30-10

#M9363 01/29/10 GVE — Fisherbrand 101-1000µL Redi-Tip Pipet Tips Fisher Scientific Lot No. 09411558

#M9364 02/02/10 AMA — SPLP Extraction Fluid #1 - Into a 20L carboy, add D.I. H_2O to mark, and adjust pH to 4.20 ± 0.05 with M8367. Exp. 02/02/11

#M9365 02/02/10 AMA — TCLP Extraction Fluid #1 - Fill a 20L carboy with 19L D.I. H_2O. Add 11.4mL Glacial Acetic Acid (AB: 408) and 128.6mL 10N NaOH (#M9033). Dilute to 20L with D.I. H_2O and mix. The pH = 4.93 ± 0.05. Exp. 02/02/11

#M9366 02/02/10 GVE — Hg Working Stds: (0.2% HNO3, HCl)

- 1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg
- 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
- 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
- 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
- 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
- 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
- 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
- 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M9367 02/03/10 GVE — Hg Alt Source Working Std: (0.2% HNO3, HCl)

- 1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
- 1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M9368 02/03/10 GVE — Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)

- 3.0ml of 100ug/L Hg (#M9367) into 100ml = 3.0ug/L Hg

#M9369 02/03/10 GVE — Hg MRL:

- 0.2ml of 100ug/L Hg (#M 9367) into 100ml = 0.2ug/L Hg

#M9370 02/03/10 GVE — Hg Aqua Regia Reagent:

- "Carefully" in hood, mix 3 parts HCl (AB: 471) with 1part HNO3 (AB: 476)

#M9371 02/03/10 GVE — Hg Soil MDL Spiking Solution: 0.2% HNO_3, HCl — Pipet 10mL of 100µg/L (#M9361) into a 100 mL Vol. Flask = 10µg/L Hg

#M9372 02/03/10 GVE — Hg Water MDL Study: 0.2% HNO_3, HCl — Pipet 5mL of (#M9371) 10µg/L Hg into a 500 mL Vol. Flask = 0.1µg/L Hg

#M9349 1/18/10 AmA

Hg Working Stds: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M9350 1/18/10 AmA

Hg Alt Source Working Std: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M9351 1/18/10 AmA

Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)
3.0ml of 100ug/L Hg (#M 9350) into 100ml = 3.0ug/L Hg

#M9352 1/18/10 AmA

Hg MRL:
0.2ml of 100ug/L Hg (#M 9350) into 100ml = 0.2ug/L Hg

#M9353 3 1/18/10 AmA 1/18/10 AmA

Hg Aqua Regia Reagent:
"Carefully" in hood, mix 3 parts HCl (AB: 471) with 1part HNO3 (AB: 476)

#M9354 01/18/10 GvE
Potassium Permanganate Sol'n: 50g Potassium Permanganate (#M8169) dissolved into 1000mL Milli-Q H_2O. Exp. 07/18/10

#M9355 01/21/10 AmA
Tclp Extraction Fluid #1: Fill a 20L carboy with 19L D.I. H_2O. Add 11.4mL Glacial Acetic Acid (AB-418) and 128.6mL 10N NaOH (#M9033). Dilute to 20L with D.I. H_2O and mix. The pH= 4.93 ± 0.05

#M9356 01/27/10 GvE

Hg Working Stds: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M9357 01/27/10 GvE

Hg Alt Source Working Std: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M9358 01/27/10 GvE

Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)
3.0ml of 100ug/L Hg (#M 9357) into 100ml = 3.0ug/L Hg

#M9359 01/27/10 GvE

Hg MRL:
0.2ml of 100ug/L Hg (#M 9357) into 100ml = 0.2ug/L Hg

#M9360 01/27/10 GvE

Hg Aqua Regia Reagent:
"Carefully" in hood, mix 3 parts HCl (AB: 471) with 1part HNO3 (AB: 476)

#M9361

#M9362

#M9363

#M9364

#M9365 AM

#M9366 GvE

#M9367 GvE

#M9368 GvE

#M9369 GvE

#M9370 GvE

#M9371 GvE

#M9372

pipet
up to volume
-10

#M9340 1/11/2010 AMA

Hg Working Stds: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M9341 1/11/2010 AMA

Hg Alt Source Working Std: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

-2)
olume with DI
ug/L Pb H2O.

#M9342 1/11/2010 AMA

Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)
3.0ml of 100ug/L Hg (#M9341) into 100ml = 3.0ug/L Hg

up to
Ag and

#M9343 1/11/2010 AMA

Hg MRL:
0.2ml of 100ug/L Hg (#M9341) into 100ml = 0.2ug/L Hg

#M9344 1/11/2010 AMA

Hg Aqua Regia Reagent:
"Carefully" in hood, mix 3 parts HCl (AB: 471) with 1part HNO3 (AB: 474)

#M9345 1/12/2010 Tclp Extraction Fluid #2: Into a 20L carboy, pipet 114mL Glacial Acetic Acid (AB-468) and dilute to 20L with D.I. H_2O. The pH = 2.88 ± 0.05 Exp. 1/12/2011
AMA

#M9346 01/18/10 01/14/10 GAE Matrix Modifier 1% Pd in 8% (wt/wt) HNO_3 + Tr HCl
Env. Express Lot No. 0919705 Exp. 01-08-11
GAE

#M9347 01/14/10 Pd/Mg Matrix Modifier: Into a 50mL Vol. Flask, pipet 15mL #M9346 and 5mL of #M9301. Bring up to volume with Milli. Q H_2O. Exp. 12-30-10
GAE

#M9348 01/15/10 GFAA Dissolved MDL Study: Into a 1L Vol. Flask, pipet 0.1mL of #M8880 & bring up to volume with D.I. H_2O. Exp 04-01-10.
GAE

orking std.

#M9349 02/02/10 Sb GFAA Dissolved Study: Into a 50mL Vol. Flask, pipet 0.01mL of #M8880 and bring up to volume with D.I. H_2O. Exp 04-01-10
GAE

#M9336 01/07/10 3050 ICP MDL spiking Solution (D) - put into a 1,000mL flask, pipet the following and bring up to volume w/ D7 H_2O Exp: 02-15-10
LSt

0.01 Be 1,000 mg/L (#M8840)
0.04 Ba 1,000 mg/L (#M8959)
0.02 Cu 10,000 mg/L (#M8961)
0.1 Ni 1,000 mg/L (#M9774)
0.2 Zn 1,000 mg/L (#M9776)

#M9337 01/07/10 3020 GFAA MDL Study: Pipet 0.1mL of 10,000 mg/L Pb (#M8965), 0.1mL of 1,000 mg/L Ag (#M9052) and 1mL of 1,000 mg/L Tl (#M8344) into a 100mL vol. Flask. Bring up to volume with DI H_2O = 10,000 µg/L Pb, 1,000 µg/L Ag and 10,000 µg/L Tl. Pipet 0.1mL of 10,000 µg/L Pb, 1,000 µg/L Ag and 10,000 µg/L Tl into a 1000mL vol. flask. Bring up to volume with D.I. H_2O. Final concentration = 1 µg/L Pb, 0.1 µg/L Ag and 1 µg/L Tl.
AMA (1% HNO_3)

#M9338 1-8-10
2x 5% HNO_3
5% HCl

MRL Check Base SPIKE PREPARATION

Into a 1000 mL Volumetric Flask, pipet the following:

Log#	Analyte	(ug/L)	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
M9052	Ag	20	1000	1
M8967	Al	400	10000	2
M9058	As	10	1000	0.5
M8959	Ba	10	1000	0.5
M9334	Be	4	1000	0.2
M8964	Ca	500	10000	2.5
M9055	Cd	5	1000	0.25
M9299	Co	10	1000	0.5
M9273	Cr	10	1000	0.5
M8961	Cu	10	10000	0.05
M9219	Fe	300	10000	1.5
M9218	Mg	500	10000	2.5
M9332	Mn	10	1000	0.5
M9302	Mo	10	1000	0.5
M9624	Ni	10	1000	0.5
M8965	Pb	10	10000	0.05
M9053	Sb	20	1000	1
M9054	Se	10	1000	0.5
M9333	Tl	20	1000	1
M9056	V	10	1000	0.5
M9276	Zn	10	1000	0.5
M9140	B	10	1000	0.5
M9121	Si	10	1000	0.5
M9278	Li	20	1000	1
M9281	Sn	10	1000	0.5
M9300	Sr	10	1000	0.5
M9277	Ti	10	1000	0.5
M9105	W	10	1000	0.5
M9280	Na	1000	10000	5
M9060	K	5000	10000	25

Bring up to mark with DI H2O.

Of this Base standard pipet 10 mls into 500 ml volumetric to create working std.

Expires 5-10

#M9339 - 1-8-2010 Chemware Ultrapure PTFE Boiling Stones
RA Batch A1675-9L007

#M9340

#M9341 1/1
AMA

#M9342 1/1
AMA

#M9343 1/1
AMA

#M9344 1/1
AMA

#M9345 1/1
AMA

#M9346 0
Ga

#M9347
GE

#M9348
G

#M9329 ICSA (ICP) Into 500 ml vol flask pipet 50mL of #M9212 Bring up to mark w/ DI H_2O. ox 10/10.
1-5-10
5% HNO_3
5% HCL

#M9330 3050 ICP MDL Spiking solution (A) - put into a 1000mL Flask, pipet the following and bring up to volume w/DI H_2O. Exp. 06/30/10
01/06/10 (1% HNO_3)
0.04mL As 1,000 mg/L (#M9058)
0.04mL Se 1,000 mg/L (#M9054)

#M9331 3050 ICP MDL Spiking Solution (B) - put into a 1,000mL flask, pipet the following and bring up to volume w/DI H_2O. Exp. 02/15/10
01/06/10 (1% HNO_3)
0.4mL B 1,000 mg/L (#M9140)
0.02mL Cd 1,000 mg/L (#M9055)
0.05mL Co 1,000 mg/L (#M9272)
0.1mL Mn 1,000 mg/L (#M8842)
0.05mL Mo 1,000 mg/L (#M9302)
0.05mL Ag 1,000 mg/L (#M9057)
0.04mL Sb 1,000 mg/L (#M9053)

#M9332 01/06/10 Manganese Standard 1,000 mg/L Spex CertiPrep Lot No. 15-91MN
GE Expires 01-15-11

#M9333 01/06/10 Thallium Standard 1,000 mg/L Spex Certiprep Lot No. 15-95TL
GE Expires 01-15-11

#M9334 01/06/10 Beryllium Standard 1,000 mg/L Spex CertiPrep Lot No. 15-127BE
GE Expires 01-15-11

#M9335 01/07/10 3050 ICP MDL Spiking solution (C) - put into a 1,000mL flask, pipet the following and bring up to Volume w/DI H_2O. Exp. 05/15/10
(1% HNO_3)
0.02 Al 10,000 mg/L (#M8967)
0.1 Cr 1,000 mg/L (#M9273)
0.01 Pb 10,000 mg/L (#M8965)
0.1 V 1,000 mg/L (#M9056)

g/L

1000 µg/L
Sb

#M9323 12/30/09
AMA

3050 QSM ICP MDL Spiking Solution: Into a 1L vol. flask, pipet the following and bring up to volume with D.I. H2O.
(1% HNO3,HCl) Exp: 4/2010

0.25ml Ag 1000mg/L (#M9052)
0.05ml Al 10,000mg/L (#M8967)
1ml As 1000mg/L (#M9058)
0.1ml Ba 1000mg/L (#M8959)
0.05ml Be 1000mg/L (#M8840)
0.25ml Ca 10,000mg/L (#M8964)
0.05ml Cd 1000mg/L (#M9055)
0.25ml Co 1000mg/L (#M9272)
0.25ml Cr 1000mg/L (#M9273)
0.05ml Cu 10,000mg/L (#M8961)
0.1ml Fe 10,000mg/L (#M9219)
0.25ml Mg 10,000mg/L (#M9218)
0.25ml Mn 1000mg/L (#M8842)
0.25ml Mo 1000mg/L (#M8843)
0.25ml Ni 1000mg/L (#M9274)
0.025ml Pb 10,000mg/L (#M8965)
1ml Sb 1000mg/L (#M9053)
1ml Se 1000mg/L (#M9054)
1ml Tl 1000mg/L (#M8844)
0.25ml V 1000mg/L (#M9056)
0.5ml Zn 1000mg/L (#M9276)
1ml B 1000mg/L (#M9140)
5ml Si 1000mg/L (#M9121)
10ml K 10,000mg/L (#M9222)
5ml Na 10,000mg/L (#M9280)

#M9324 12/30/09
AMA

3050 QSM ICP MDL Spiking Solution: Into a 1 L vol.flask, pipet the following and bring up to volume with D.I. H2O.
(1% HNO3, HCl) Exp: 4/2010

1ml Li 1000mg/L (#M9278)
0.5ml Sn 1000mg/L (#M9279)
0.0125ml Sr 1000mg/L (#M9300)
1ml Ti 1000mg/L (#M9277)
0.5ml W 1000mg/L (#M9275)

#M9325 12/30/09 Pd/Mg Matrix Modifier: Into a 50mL Vol. Flask, pipet 15mL # M8846 and 5mL of #M9301. Bring up to volume with MilliQ H_2O. Exp. 2-13-10
GUE

#M9326 1/4/2010 TCLP Extraction fluid #2: Into a 20L carboy, pipet 114mL Glacial Acetic Acid (AB-4018) and dilute to 20L with D.I. H_2O. The pH= 2.88 ±0.05
AMA Exp. 1/4/2011

#M9327 01/04/10 GFAA Base Std (25µg/L) Pipet 10mL of 100 µg/mL (#M8881) → 200mL = 5000 µg/L
GUE (1% HNO_3, 6% HCl). 10mL of 5000 µg/L → 200mL = 250µg/L
Exp. 04/01/10 20mL of 250 µg/L → 200mL = 25µg/L

#M9328 01/04/10 GFAA Alt. Source Std (10µg/L) Pipet 10mL of 10 µg/mL (#M8880) → 100mL = 1000 µg/L
GUE (1% HNO_3, 6% HCl) 10mL of 1000 µg/L Sb → 100mL = 100 µg/L Sb
Exp. 04/01/10 20mL of 100 µg/L Sb → 200mL = 10µg/L

#M9329
1-5-10
5% HN
5% HC

#M9330
01/06/10

#M9331
01/06/10

#M9332
GUE

#M9333
GUE

#M9334
GUE

#M9335

#M9316 12/29/09 Spike Sample Standard 1 Spex CertiPrep Lot No. 41-10 AS
Grk Expires 12-30-10

#M9317 12-29-09 List 2 stds (working) 2nd into (5) 1 Liter Vol flask pipet
5% HNO3
5% HCL
1 -> .01mls #M9298 & .001 mls #M9275, .001mls #M9279.
10 -> .1mls #M9298 & .01mls #M9275, .01mls #M9279.
100 -> 1.0mls #M9298 & .10mls #M9275, .10mls #M9279.
1000 -> 10.0mls #M9298 + 1.0mls #M9275, 1.0mls #M9279.
10,000 100mls #M9298 & 10mls #M9275, 10mls #M9279.
Bring up to mark with DI H_2O Ex Dec 15, 2010

#M9318 12-29-09 List 2 ICV/CCV/LCSW
5% HNO3
5% HCL
Into a Liter Volumetric flask pipet 0.5mls of #M9281, #M9105, #M9278, #M9277, #M9300 bring up to mark with DI H_2O. Ex Oct 2010.

#M9319 12-29-09 Boron + Silicon working stds into (6) 250ml
5% HNO3
5% HCL
Volumetric flasks pipet the following Respectfully.
10(B) -> .025mls of #M9188.
50(B) -> .125mls of #M9188.
100(Si), 200(B) -> 0.5mls of #M9188.
500(Si), 1000(B) -> 2.50mls of #M9188.
1000(Si), 2000(B) -> 5.0mls of #M9188.
5000(Si), 10,000(B) -> 25.0mls of #M9188
Bring up to mark with DI H_2O ex 9/2010

#M9320 12-29-09 Boron + Silicon ICV/CCV/LCSW into 1 Liter #12-29-09
250ml Vol flask pipet 0.25mls #M9121, #M9140 Bring up to mark with DI H_2O ex 4/2010.

#M9321 12-15-09 #12-29-09 ICV/LCSW/CCV DOD into 1 Liter Vol flask 5mls #M9220, 0.5mls M9121, #M9300, #M9278, and #M9302, and M9140, #0.07mls #M9052, 2.0mls M9212 Bring up to mark with DI H_2O ex 4/2010.
5% HNO3
5% HCL

#M9322 ICV/LCSW/CCV DOD into 1 Liter vol flask Pipet 10mls #M9220
5% HNO3
5% HCL
2.0mls #M9212 and 0.5mls #M9302 #M9278 #M9121, #M9300 and #M9140 and .07mls #M9052 Bring up to mark with DI H_2O

04 4/2010

#M9308 12/29/09 LSF — 305 | Spiking Solution (1% HNO_3) Expires: ~~04/30/10~~ 12/29/09 LSF 05/15/10 — Into a 500mL Flask Pipet the following and ~~bring~~ 12/29/09 bring up to volume w/DI H_2O.
2.5mL Ag (#M9057) 1000 mg/L
50 mL B (#M9140) 1000 mg/L
25mL Co (#M9299) 1000 mg/L
2.5mL Cd (#M9055) 1000 mg/L
0.5mL Sb (#M9053) 1000 mg/L
50mL Mo (#M9302) 1000mg/L
50mL Mn (#M8966) 10,000 mg/L

#M9309 12/29/09 LSF — ICP spiking Solution (7min) (1% HNO_3) Expires: 05/15/10 — Into a 200mL Vol. Flask, pipet the following and bring up to volume w/DI H_2O
4.0mL of 1000 mg/L Cr (#M9273)
1mL of 10,000 mg/L Pb (#M8965)
10mL of 1,000 mg/L V (#M9056)

#M9310 12/29/09 LSF — ICP spiking solution (24min.) Expires 02/15/10 (1% HNO_3) — Into a ~~250~~ 12/29/09 LSF 250mL Vol. Flask pipet the following and bring up to volume w/DI H_2O
10mL of 1000 mg/L Ba (#M8959)
0.5mL of 1000mg/L Be (#M8840)
10mL of 10,000mg/L Cu (#M8961)
5mL of 1000 mg/L Ni (#M9274)
10mL of 10,000mg/L Zn (#M8963)

#M9311 12/29/09 AMA — Hg Working Stds: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M9312 12/29/09 AMA — Hg Alt Source Working Std: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M9313 12/29/09 AMA — Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)
3.0ml of 100ug/L Hg (#M9312) into 100ml = 3.0ug/L Hg

#M9314 12/29/09 AMA — Hg MRL:
0.2ml of 100ug/L Hg (#M9312) into 100ml = 0.2ug/L Hg

#M9315 12/29/09 AMA — Hg Aqua Regia Reagent:
"Carefully" in hood, mix 3 parts HCl (AB: 453) with 1part HNO3 (AB: 467)

#M9316
#M9317
5% H
5% H
M9315
5% HNO3
5% HCl
M931
5% HN
5% HCl
M93
M932
12-15
5% HNO3
5% HCL
M9327
5% HNO3
5% HCL

#M9304 12/28/09
AMA

3010 ICP MDL Spiking Solution: Into a 1000ml vol. flask, partially filled with D.I. H2O,
(1% HNO3, HCl) pipet the following then bring up to volume with D.I. H2O.
Exp: 4/2010

0.005ml Ag 1000mg/L (#M9052)
0.001ml Al 10,000mg/L (#M8967)
0.01ml As 1000mg/L (#M9058)
0.002ml Ba 1000mg/L (#M8959)
0.001ml Be 1000mg/L (#M8840)
0.005ml Ca 10,000mg/L (#M8964)
0.001ml Cd 1000mg/L (#M9055)
0.005ml Co 1000mg/L (#M9272)
0.005ml Cr 1000mg/L (#M9273)
0.0005ml Cu 10,000mg/L (#M8961)
0.002ml Fe 10,000mg/L (#M9219)
0.005ml Mg 10,000mg/L (#M9218)
0.005ml Mn 1000mg/L (#M8842)
0.005ml Mo 1000mg/L (#M8843)
0.005ml Ni 1000mg/L (#M9274)
0.001ml Pb 10,000mg/L (#M8965)
0.01ml Sb 1000mg/L (#M9053)
0.01ml Se 1000mg/L (#M9054)
0.01ml Tl 1000mg/L (#M8844)
0.005ml V 1000mg/L (#M9056)
0.0025ml Zn 1000mg/L (#M9276)
0.02ml B 1000mg/L (#M9140)
0.1ml Si 1000mg/L (#M9121)
0.1ml K 10,000mg/L (#M9222)
0.1ml Na 10,000mg/L (#M9280)

1/26AS

#M9305 12/28/09
AMA

3010 ICP MDL Spiking Solution: Into a 1000ml vol. flask, partially filled with D.I. H2O,
(1% HNO3, HCl) pipet the following then bring up to volume with D.I. H2O.
Exp: 4/2010

0.005ml Li 1000mg/L (#M9278)
0.02ml Sn 1000mg/L (#M9279)
0.01ml Sr 1000mg/L (#M9300)
0.02ml Ti 1000mg/L (#M9277)
0.01ml W 1000mg/L (#M9275)

1/30/10

#M9306 12/28/09
AMA

3050 ICP MDL Spiking Solution: Into a 1L vol. flask, pipet the following and bring up to volume with D.I. H2O.
(1% HNO3, HCl) Exp: 4/2010

1x Centipro
1/10

0.25ml Ag 1000mg/L (#M9052)
0.05ml Al 10,000mg/L (#M8967)
1ml As 1000mg/L (#M9058)
0.1ml Ba 1000mg/L (#M8959)
0.05ml Be 1000mg/L (#M8840)
0.25ml Ca 10,000mg/L (#M8964)
0.05ml Cd 1000mg/L (#M9055)
0.25ml Co 1000mg/L (#M9272)
0.25ml Cr 1000mg/L (#M9273)
0.025ml Cu 10,000mg/L (#M8961)
0.1ml Fe 10,000mg/L (#M9219)
0.25ml Mg 10,000mg/L (#M9218)
0.25ml Mn 1000mg/L (#M8842)
0.25ml Mo 1000mg/L (#M8843)
0.25ml Ni 1000mg/L (#M9274)
0.025ml Pb 10,000mg/L (#M8965)
1ml Sb 1000mg/L (#M9053)
1ml Se 1000mg/L (#M9054)
0.5ml Tl 1000mg/L (#M8844)
0.25ml V 1000mg/L (#M9056)
0.5ml Zn 1000mg/L (#M9276)
1ml B 1000mg/L (#M9140)
5ml Si 1000mg/L (#M9121)
5ml K 10,000mg/L (#M9222)
5ml Na 10,000mg/L (#M9280)

#M9307 12/28/09
AMA

3050 ICP MDL Spiking Solution: Into a 1L vol. flask, pipet the following and bring up to volume with D.I. H2O.
(1% HNO3,HCl) Exp: 4/2010

0.5ml Li 1000mg/L (#M9278)
0.5ml Sn 1000mg/L (#M9279)
0.125ml Sr 1000mg/L (#M9300)
1ml Ti 1000mg/L (#M9277)
0.5ml W 1000mg/L (#M9275)

~~#M9297 12/24/09~~ ~~3010 ICP Dissolved MDL Spiking Solution: Into a 1000ml volumetric flask, partially filled with D.I. H2O,~~
AMA (1% HNO3, HCl) pipet the following then bring up to volume with D.I. H2O.
Exp: 4/2010 12/28/09 AMA

0.005ml Li 1000mg/L (#M9278)
0.005ml Sn 1000mg/L (#M9279)
0.01ml Sr 1000mg/L (#M8736)
0.02ml Ti 1000mg/L (#M9277)
0.01ml W 1000mg/L (#M9275)

#M9304 12
AMA

#M9298 12-28-09 Quality Control Std 21 ~~Spex~~ #12-28-09 Spex Certiprep Lot# 4/1-26AS
M 12/30/10

#M9305 12/
AMA

#M9299 12-28-09 Cobalt 1000mg/L Spex Certiprep Lot# CL4-112CO
M 12-30-10

#M9300 12-28-09 Strontium 1000mg/L Spex Certiprep Lot# 15-92MO
~~#M9~~ M ex 12/30/10

#M9301 12-28-09 Magnesium Nitrite Modifier Spex Certiprep
M Lot # 1-163MG1 ex 12/30/10

#M9306 12/2
AMA

#M9302 12-28-09 Molybdenum 1000mg/L Lot# ~~RLMO9~~ #12-28-09 15-92MO Spex Certiprep
M ex 12/30/10

~~12/28/09~~ AMA
~~#M9~~ #M9303 12/28/09
AMA

3010 ICP Dissolved MDL Spiking Solution: Into a 1000ml volumetric flask, partially filled with D.I. H2O,
(1% HNO3, HCl) pipet the following then bring up to volume with D.I. H2O.
Exp: 4/2010

0.005ml Li 1000mg/L (#M9278)
0.005ml Sn 1000mg/L (#M9279)
0.01ml Sr 1000mg/L (#M9300)
0.02ml Ti 1000mg/L (#M9277)
0.01ml W 1000mg/L (#M9275)

#M9307 12/
AMA

#9287 12/21/09 GJE	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#9288 12/21/09 GJE	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#9289 12/21/09 GJE	Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 9288) into 100ml = 3.0ug/L Hg
#9290 12/21/09 GJE	Hg MRL:	0.2ml of 100ug/L Hg (#M 9288) into 100ml = 0.2ug/L Hg
#9291 12/21/09 GJE	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 453) with 1part HNO3 (AB: 467)

#M9292 12/21/09 TCLP Extraction Fluid #1: Fill a 20L Carboy w/ 19L DI H_2O. Add 114mL Glacial Acetic Acid (AB.468) and 128.6mL 10N NaOH (#M9033) Dilute to 20mL w/ DI H_2O and mix. The pH = 4.93 ± 0.05.
GJE

#M9293 12/21/09 NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M9082(a)) & 60g Hydroxylamine Sulfate (#M9174) in 500mL Milli Q H_2O. Exp. 6-21-10
GJE

#M9294 12/21/09 Potassium Permanganate Soln: 50g Potassium Permanganate (#M8869) dissolved into 1000mL Milli Q H_2O. Exp. 06-21-10
GJE

#M9295 12/22/09 TCLP Extraction Fluid #1: Fill a 20L Carboy w/ 19L DI H_2O. Add 114mL Glacial Acetic Acid (AB.468) and 128.6mL 10N NaOH (#M9033). Dilute to 20mL w/ DI H_2O and mix. The pH = 4.93 ± 0.05.
GJE

#M9296 12/28/09
AMS

3010 ICP Dissolved MDL Spiking Solution: Into a 1000ml volumetric flask, partially filled with D.I. H2O, pipet the following then bring up to volume with D.I. H2O.
(1% HNO3, HCl)
Exp: 4/2010

0.005ml Ag 1000mg/L (#M9052)	0.005ml Mo 1000mg/L (#M8843)
0.002ml Al 10,000mg/L (#M8967)	0.005ml Ni 1000mg/L (#M9274)
0.02ml As 1000mg/L (#M9058)	0.001ml Pb 10,000mg/L (#M8965)
0.002ml Ba 1000mg/L (#M8959)	0.02ml Sb 1000mg/L (#M9053)
0.001ml Be 1000mg/L (#M8840)	0.02ml Se 1000mg/L (#M9054)
0.002ml Ca 10,000mg/L (#M8964)	0.02ml Tl 1000mg/L (#M8844)
0.001ml Cd 1000mg/L (#M9055)	0.005ml V 1000mg/L (#M9056)
0.005ml Co 1000mg/L (#M9272)	0.0025ml Zn 1000mg/L (#M9276)
0.005ml Cr 1000mg/L (#M9273)	0.02ml B 1000mg/L (#M9140)
0.001ml Cu 10,000mg/L (#M8961)	0.1ml Si 1000mg/L (#M9121)
0.002ml Fe 10,000mg/L (#M9219)	0.1ml K 10,000mg/L (#M9222)
0.005ml Mg 10,000mg/L (#M9218)	0.1ml Na 10,000mg/L (#M9280)
0.005ml Mn 1000mg/L (#M8842)	

#M9284 AB-468, AB 953

12-15-09

ICAP Working Standards

DOD Cal

5% HNO3,5%HCL

Standard name	Pipet the following respectively:
0.25	0.25 mls of standard 100 ug/L into 1000 ml volumetric flask = 0.25 ug/L std
0.5	0.50 mls of standard 100 ug/L into 1000ml volumentric flask= 0.50 ug/L std
1	1.0 mls of standard 100ug/L into 1000 ml volumentrc flask =1.00 ug/L std
5	5.0 mls of standard 100ug/L into 1000 ml volumentrc flask =5.00 ug/L std
10	10.0 mls of standard 100ug/L into 1000 ml volumentrc flask =10.0 ug/L std
20	20.0 mls of standard 100ug/L into 1000 ml volumentrc flask =20.0 ug/L std
50	50.0 mls of standard 100ug/L into 1000 ml volumentrc flask =50.0 ug/L std
100	1.0 mls of #M8924(ex 4/10) and 1.0 mls of #M8739 (ex 4/10) into 1000 ml volumectric flask= 100 ug/L std
500	5.0 mls of #M8924(ex 4/10) and 5.0 mls of #M8739 (ex 4/10) into 1000 ml volumetric flask= 500 ug/L std
1000	10.0 mls of #M8924(ex 4/10) and 10.0 mls of #M8739 (ex 4/10) into 1000 ml volumetric flask= 1000 ug/L std
10,000	100 10.0 mls of #M8924(ex 4/10), 1.0 mls of #M8959 Ba (ex 5/10) 1.0 mls #M8841 B (ex 2/10), 0.10 mls #M8967 Al (ex 5/10) 12-15-09 into 1000 ml volumtric flask= 10000 ug/L std
100k	10 mls of #M8961 (Cu) (ex 2/10) , 10 mls of #M8966 (Mn)(ex 2/10) , 10 mls of #M8960 (Cr)(ex 2/10) , 10 mls #M8963 (Zn)(ex 2/10), 10 mls #M8965 (Pb)(ex 2/10) , 100 mls of #M8726 (Co)(ex 12/15/2010) into 1000 ml vol flask = 100K ug/l std
100,000	10 mls of #M8845 (Mg) (ex 2/10) , 10 mls of #M8962 (Fe) (ex 2/10) ,10 mls of #M8964 (Ca)(ex 2/10),10 mls #M8967 (AL)(ex 2/10) into 1000 ml vol flask = 100,000 ug/l std
500,000	50 mls of #M8845 (Mg) (ex 2/10), 50 mls of #M8962 (Fe) (ex 2/10) ,50 mls of #M8964 (Ca)(ex 2/10), 50 mls #M8967 (AL)(ex 2/10) into 1000 ml vol flask = 500,000 ug/l std
1000k	100 mls of #M8845 (Mg) (ex 2/10), 100 mls of #M8962 (Fe) (ex 2/10), 100 mls of #M8964 (Ca)(ex 2/10), 100 mls #M8967 (AL)(ex 2/10) into 1000 ml vol flask = 1000K ug/l std
	Bring 1000 ml volumetrics up to mark with DI H2O

ex 2/10

#M9285

12-21-09

ICAP Working Standards for Sodium and Potassium method

5% HNO3, 5% HNO3

Standard name	Pipet the following respectively:
0.5	0.05 mls of #M9280 and #M9222 into 1000 ml volumetric flask = 0.50 ug/L std
1	0.1 mls of #M9280 and #M9222 into 1000 ml volumetric flask = 1.0 ug/L std
5	0.5 mls of #M9280 and #M9222 into 1000 ml volumetric flask = 5.0 ug/L std
10	1.0 mls of #M9280 and #M9222 into 1000 ml volumetric flask = 10 ug/L std
50	5.0 mls of #M9280 and #M9222 into 1000 ml volumetric flask = 50 ug/L std
100	10.0 mls of #M9280 and #M9222 into 1000 ml volumetric flask = 100 ug/L std
200	20 mls of #M9280 and #M9222 into 1000 ml volumetric flask = 200 ug/L std
500	5.0 mls of #M8924(ex 4/10) and 5.0 mls of #M8739 (ex 4/10) into 1000 ml volumetric flask= 500 ug/L std
	Bring 1000 ml volumetrics up to mark with DI H2O

#M9286

12-21-09

ICAP ICV/CCV/LCSW Standards for Sodium and Potassium method

5% HNO3, 5% HNO3

Standard name	Pipet the following into a 1000 ml volumetric flask
	100 mls of M9059 and 100 mls of M9060
	Bring 1000 ml volumetric up to mark with DI H2O

#M9287 1: GE

#M9288 1: GE

#M9289 1: GE

#M9290 1: GE

#M9291 1: GE

#M9292 1: SF

#M9293 1: GE

#M9294 1: GE

#M9295 1: SF

#M9296 1: AMS

- 6/04/11, #9282 21 12-15-09 HCL AB-453 HNO3 AB-468

ICAP Working Standards

18% HNO3 + 6% HCL

4.5 min Kre 3051

Standard name	Pipet the following respectively: Into 1 Liter val
0.25	0.25 mls of standard 100 ug/L into 1000 ml volumetric flask = 0.25 ug/L std
0.5	0.50 mls of standard 100 ug/L into 1000ml volumentric flask= 0.50 ug/L std
1	1.0 mls of standard 100ug/L into 1000 ml volumentrc flask =1.00 ug/L std
5	5.0 mls of standard 100ug/L into 1000 ml volumentrc flask =5.00 ug/L std
10	10.0 mls of standard 100ug/L into 1000 ml volumentrc flask =10.0 ug/L std
20	20.0 mls of standard 100ug/L into 1000 ml volumentrc flask =20.0 ug/L std
50	50.0 mls of standard 100ug/L into 1000 ml volumentrc flask =50.0 ug/L std
100	1.0 mls of #M8924(ex 4/10) and 1.0 mls of #M8739 (ex 4/10) into 1000 ml volumectric flask= 100 ug/L std
500	5.0 mls of #M8924(ex 4/10) and 5.0 mls of #M8739 (ex 4/10) into 1000 ml volumetric flask= 500 ug/L std
1000	10.0 mls of #M8924(ex 4/10) and 10.0 mls of #M8739 (ex 4/10) into 1000 ml volumetric flask= 1000 ug/L std
10,000	100 ~~10.0~~ mls of #M8924(ex 4/10), 1.0 mls of #M8959 Ba (ex 5/10) 1.0 mls #M8841 B (ex 2/10), 0.10 mls #M8967 Al (ex 5/10) into 1000 ml volumtric flask= 10000 ug/L std ~~12-15-09~~
100k	10 ~~10~~ mls of #M8961 (Cu) (ex 2/10) , 10 mls of #M8966 (Mn)(ex 2/10) , 10 mls of #M8960 (Cr)(ex 2/10) , 10 mls #M8963 (Zn)(ex 2/10), 10 mls #M8965 (Pb)(ex 2/10) , 100 mls of #M8726 (Co)(ex 12/15/2010) into 1000 ml vol flask = 100K ug/l std
100,000	10 mls of #M8845 (Mg) (ex 2/10) , 10 mls of #M8962 (Fe) (ex 2/10) ,10 mls of #M8964 (Ca)(ex 2/10),10 mls #M8967 (AL)(ex 2/10) into 1000 ml vol flask = 100,000 ug/l std
500,000	50 mls of #M8845 (Mg) (ex 2/10), 50 mls of #M8962 (Fe) (ex 2/10) ,50 mls of #M8964 (Ca)(ex 2/10), 50 mls #M8967 (AL)(ex 2/10) into 1000 ml vol flask = 500,000 ug/l std
1000k	100 mls of #M8845 (Mg) (ex 2/10), 100 mls of #M8962 (Fe) (ex 2/10), 100 mls of #M8964 (Ca)(ex 2/10), 100 mls #M8967 (AL)(ex 2/10) into 1000 ml vol flask = 1000K ug/l std

Bring 1000 ml volumetrics up to mark with DI H2O

ex 2110

#M2833 21 12-15-09 ~~HCL AB-453~~ HNO3 AB-468

ICAP Working Standards

20% HNO3

7+24 Kre 3051

Standard name	Pipet the following respectively:
0.25	0.25 mls of standard 100 ug/L into 1000 ml volumetric flask = 0.25 ug/L std
0.5	0.50 mls of standard 100 ug/L into 1000ml volumentric flask= 0.50 ug/L std
1	1.0 mls of standard 100ug/L into 1000 ml volumentrc flask =1.00 ug/L std
5	5.0 mls of standard 100ug/L into 1000 ml volumentrc flask =5.00 ug/L std
10	10.0 mls of standard 100ug/L into 1000 ml volumentrc flask =10.0 ug/L std
20	20.0 mls of standard 100ug/L into 1000 ml volumentrc flask =20.0 ug/L std
50	50.0 mls of standard 100ug/L into 1000 ml volumentrc flask =50.0 ug/L std
100	1.0 mls of #M8924(ex 4/10) and 1.0 mls of #M8739 (ex 4/10) into 1000 ml volumectric flask= 100 ug/L std
500	5.0 mls of #M8924(ex 4/10) and 5.0 mls of #M8739 (ex 4/10) into 1000 ml volumetric flask= 500 ug/L std
1000	10.0 mls of #M8924(ex 4/10) and 10.0 mls of #M8739 (ex 4/10) into 1000 ml volumetric flask= 1000 ug/L std
10,000	100 ~~10.0~~ mls of #M8924(ex 4/10), 1.0 mls of #M8959 Ba (ex 5/10) 1.0 mls #M8841 B (ex 2/10), 0.10 mls #M8967 Al (ex 5/10) into 1000 ml volumtric flask= 10000 ug/L std ~~12-15-09~~
100k	10 ~~10~~ mls of #M8961 (Cu) (ex 2/10) , 10 mls of #M8966 (Mn)(ex 2/10) , 10 mls of #M8960 (Cr)(ex 2/10) , 10 mls #M8963 (Zn)(ex 2/10), 10 mls #M8965 (Pb)(ex 2/10) , 100 mls of #M8726 (Co)(ex 12/15/2010) into 1000 ml vol flask = 100K ug/l std
100,000	10 mls of #M8845 (Mg) (ex 2/10) , 10 mls of #M8962 (Fe) (ex 2/10) ,10 mls of #M8964 (Ca)(ex 2/10),10 mls #M8967 (AL)(ex 2/10) into 1000 ml vol flask = 100,000 ug/l std
500,000	50 mls of #M8845 (Mg) (ex 2/10), 50 mls of #M8962 (Fe) (ex 2/10) ,50 mls of #M8964 (Ca)(ex 2/10), 50 mls #M8967 (AL)(ex 2/10) into 1000 ml vol flask = 500,000 ug/l std
1000k	100 mls of #M8845 (Mg) (ex 2/10), 100 mls of #M8962 (Fe) (ex 2/10), 100 mls of #M8964 (Ca)(ex 2/10), 100 mls #M8967 (AL)(ex 2/10) into 1000 ml vol flask = 1000K ug/l std

Bring 1000 ml volumetrics up to mark with DI H2O

ex 2/10

/200, 5-2010, 2010, 010, 010, 2010, -2010, 2-15-2010, ONA ex 12-15-2010

#M9266 12-11-09 Yttrium 10mg/ml Env Ex lot # 0931001 ex 6/04/11 #M9282 12-15-09 HCL AB-453 HNO3 AB-468

#M9267 12/14/09 ANA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9268 12/14/09 ANA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9269 12/14/09 ANA	Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9268) into 100ml = 3.0ug/L Hg
#M9270 12/14/09 ANA	Hg MRL:	0.2ml of 100ug/L Hg (#M9268) into 100ml = 0.2ug/L Hg
#M9271 12/14/09 ANA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 453) with 1part HNO3 (AB: 468)

#M9272 12-14-09 Co 1000 mg/L Spex Certiprep lot # CL4-112CO ex 12/15/2010. #M9283 12-15-09 HCL AB-453 HNO3 AB-468

#M9273 12-14-09 Cr 1000 mg/L Spex Certiprep lot ~~# CL4~~ CL4-135CR ex 12-15-2010.

#M9274 12-14-09 Ni 1000mg/L Spex Certiprep lot # 15-125NI ex 12-15-2010.

#M9275 12-14-09 W 1000mg/L Spex Certiprep lot # 15-112W ex 12-15-2010.

#M9276 12-14-09 Zn 1000mg/L Spex Certiprep lot # 15-992n ex 12-15-2010.

#M9277 12-14-09 Ti 1000 mg/L Spex Certiprep lot # 15-98TI ex 12-15-2010.

#M9278 12-14-09 Li 1000 mg/L Spex Certiprep lot # 15-31LI ex 12-15-2010.

#M9279 12-14-09 Sn 1000 mg/L Spex Certiprep lot # CL4-127SN ex 12-15-2010

#M9280 12-14-09 Sodium 10,000 mg/L Spex Certiprep lot # AC11-190NA ex 12-15-2011

#M9281 12-14-09 Tin 1000 mg/L Fisher lot # 091695 ex 04/2011

#M9256 11/30/09 NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (M9082(a)) and 60g
AMA Hydroxylamine sulfate (M9174) in 500mL
Milli-Q H_2O. Exp. 5/30/10

#M9257 12/02/09 Mercury 1000 mg/L Spex CertiPrep Lot No. CL4-96HG
GE Exp. 11-30-10

#M9258 12-3-09 ICSAB Into 500 ml vol pipet 50mls of M9212 +
JA 2.5mls of M9188 or M8924 Bring up to mark with DI H_2O
20% HNO_3 ex April 30, 200.
20% HCl

#M9259 12/4/09 TCLP Extraction Fluid #1: Fill a 20L carboy with 19L D.I. H_2O. Add 114mL Glacial
AMA Exp. 12/4/10 Acetic Acid (AB-468) and 128.6mL 10N NaOH (M9033).
Dilute to 20L with D.I. H_2O and mix. The pH = 4.93 ± 0.05.

#M9260 12-8-09 Hg Working Stds: (0.2% HNO_3, HCl)
JA
- 1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg
- 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
- 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
- 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
- 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
- 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
- 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
- 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M9261 JA 12-8-09 Hg Alt Source Working Std: (0.2% HNO_3, HCl)
- 1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
- 1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M9262 JA 12-8-09 Hg ICV/CCV/LCSW: (0.2% HNO_3, HCl)
- 3.0ml of 100ug/L Hg (#M9261) into 100ml = 3.0ug/L Hg

#M9263 JA 12-8-09 Hg MRL:
- 0.2ml of 100ug/L Hg (#M9261) into 100ml = 0.2ug/L Hg

#M9264 12/10/09 TCLP Extraction Fluid #1: Fill a 20L carboy w/19L D.I. H_2O. Add 114ml Glacial Acetic Acid
LJK (AB-468) and 128.6ml 10N NaOH (#M9033). Dilute to 20L w/D.I. H_2O
and mix. The pH = 4.93 ± 0.05.

#M9265 12-10-09 10N NaOH Into 1 Liter Vol/flask weigh 400g. NaOH
JA (#W22703) Bring up to mark with DI H_2O ex 12-10-10.

#M9244 11-18-09 GVE	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9245 11-18-09 GVE	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9246 11-18-09 GVE	Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 9245) into 100ml = 3.0ug/L Hg
#M9247 11-18-09 GVE	Hg MRL:	0.2ml of 100ug/L Hg (#M 9245) into 100ml = 0.2ug/L Hg
#M9248 11-18-09 GVE	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 453) with 1part HNO3 (AB: 467)
#M9249 11-18-09 GVE	Hydroxylamine Sulfate Fisher Scientific Lot No. 086451 f.w. 164.14 500g	
#M9250 11/24/09 TSF	TCLP Extraction Fluid #1: Fill a 20L carboy w/19L DI H_2O. Add 114mL Glacial Acetic Acid (AB. 468) and 128.6mL 10N NaOH (#M9033) Dilute to 20mL w/DI H_2O and mix. The pH = 4.93 ± 0.05.	
#M9251 11/30/09 AMA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9252 11/30/09 AMA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9253 11/30/09 AMA	Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9252) into 100ml = 3.0ug/L Hg
#M9254 11/30/09 AMA	Hg MRL:	0.2ml of 100ug/L Hg (#M9252) into 100ml = 0.2ug/L Hg
#M9255 11/30/09 AMA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 453) with 1part HNO3 (AB: 467)

#M9256 AMA

#M9257 GVE

#M925 D 20% 20%

#M9232 11/02/09 7470 LOQ ✓: Into a 25mL Vol. flask, pipet 16.25mL #M9226 & bring up to volume with Milli.Q water.
GLE

#M9233 11/03/09 TCLP Extraction Fluid #1: Fill a 20L carboy w/19L DI H_2O. Add 114mL Glacial Acetic Acid (AB.446) and 128.6mL 10N NaOH (#M9033) Dilute to 20mL w/DI H_2O and mix. The pH = 4.93 ± 0.05.
LSF

#M9234 11/06/09 GFAA Working Base Std (1000µg/L) (1% HNO_3) Pipet 10mL of #M8881 into 1L Vol. Flask & bring up to volume with Milli.Q H_2O. Exp 4-1-10
GLE

#M9235 11/06/09 GFAA Alt. Source Working Std (200µg/L) (1% HNO_3) Pipet 20mL of #M8880 into a 1L Vol. Flask & bring up to volume with Milli.Q H_2O Exp. 4-1-10
GLE

#M9236 11/06/09 GFAA Base Std (25µg/L) (1% HNO_3) Pipet 25mL of #M9234 into a 1L Vol. Flask and bring up to volume with Milli.Q H_2O. Exp 04-01-10
GLE

#M9237 11/06/09 GFAA Alt. Source Std (10µg/L) (1% HNO_3) Pipet 50mL of #M9235 into a 1L Vol. Flask and bring up to volume with Milli.Q H_2O. Exp. 04-01-10
GLE

#M9238 11/09/09 Hg Working Stds: (0.2% HNO_3, HCl)
GLE

1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M9239 11/09/09 Hg Alt Source Working Std: (0.2% HNO_3, HCl)
GLE

1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M9240 11/09/09 Hg ICV/CCV/LCSW: (0.2% HNO_3, HCl)
GLE

3.0ml of 100ug/L Hg (#M9239) into 100ml = 3.0ug/L Hg

#M9241 11/09/09 Hg MRL:
GLE

0.2ml of 100ug/L Hg (#M9239) into 100ml = 0.2ug/L Hg

#M9242 11/09/09 NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M9082a) and 60g Hydroxylamine Sulfate (#M9174) in 500mL Milli.Q H_2O. (Exp. 06-09-10)
GLE

M9243 11/11/09 TCLP Extraction Fluid #1: Fill a 20L carboy w/19L DI H_2O. Add 114mL Glacial Acetic Acid (AB.446) and 128.6mL 10N NaOH (#M9033) Dilute to 20mL w/DI H_2O and mix. The pH = 4.93 ± 0.05.
LJF

#M9218 10/28/09 GLE — Magnesium 10,000 mg/L Spex CertiPrep Assurance Lot No. Z11-158 MG Expires: 10-15-10

#M9219 10/28/09 GLE — Iron 10,000 mg/L Spex CertiPrep Assurance Lot No. A12-11FE Expires: 10-15-10

#M9220 10/28/09 GLE — Spike Sample Standard 1 Spex CertiPrep Lot No. 41-10AS Expires: 10-15-10

#M9221 10/28/09 GLE — Hafnium 1000 mg/L Spex Certiprep Lot No. 14-159HF Expires: 10-15-10

#M9222 10/28/09 GLE — Potassium 10,000 mg/L Spex CertiPrep Lot No. AC11-228K Exp. 10-30-10

#M9223 11/02/09 GLE — Hg Working Stds: (0.2% HNO3, HCl)
- 1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg
- 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
- 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
- 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
- 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
- 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
- 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
- 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M9224 11/02/09 GLE — Hg Alt Source Working Std: (0.2% HNO3, HCl)
- 1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
- 1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M9225 11/02/09 GLE — Hg ICV/CCV/LCSW: (0.2% HNO3, HCl) — 3.0ml of 100ug/L Hg (#M 9224) into 100ml = 3.0ug/L Hg

#M9226 11/02/09 GLE — Hg MRL: — 0.2ml of 100ug/L Hg (#M9224) into 100ml = 0.2ug/L Hg

#M9227 11/02/09 GLE — Hg Aqua Regia Reagent: — "Carefully" in hood, mix 3 parts HCl (AB: 453) with 1part HNO3 (AB: 467)

#M9228 11/02/09 GLE — Potassium Permanganate Soln: 50g Potassium Permanganate (#M8969) dissolved into 1000mL Milli-Q H2O.

#M9229 11/02/09 GLE — 7471 LOD ✓: (0.2% HNO3, HCl) Into a 25mL vol. flask, pipet 3.75mL of #M9226 & bring up to volume with Milli-Q water

#M9230 11/02/09 GLE — 7471 LOQ ✓: (0.2% HNO3, HCl) Into a 25mL Vol. flask, pipet 11.25mL of #M9226 & bring up to volume with Milli-Q water.

#M9231 11/02/09 GLE — 7470 LOD ✓: (0.2% HNO3, HCl) Into a 25mL Vol. flask, pipet 5.0mL of #M9226 & bring up to volume with Milli-Q water

#M9232 11/02 GLE

M9233 11/0 LSF

#M9234 11/0 GLE

#M9235 11/ GLE

#M9236 11/ GLE

#M9237 11/ GLE

#M9238 11/ GLE

#M9239 11/09 GLE

#M9240 11/09 GLE

#M9241 11/0 GLE

#M9242 11/0 GLE

#M9205 10/19/09 GJE — Hg Working Stds: (0.2% HNO3, HCl)
- 1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg
- 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
- 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
- 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
- 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
- 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
- 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
- 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M9206 10/19/09 GJE — Hg Alt Source Working Std: (0.2% HNO3, HCl)
- 1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
- 1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M9207 10/19/09 GJE — Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)
- 3.0ml of 100ug/L Hg (#M9206) into 100ml = 3.0ug/L Hg

#M9208 10/19/09 GJE — Hg MRL:
- 0.2ml of 100ug/L Hg (#M9206) into 100ml = 0.2ug/L Hg

#M9209 10/19/09 GJE — Hg Aqua Regia Reagent:
- "Carefully" in hood, mix 3 parts HCl (AB: 453) with 1part HNO3 (AB: 467)

#M9210 10/19/09 AMA — NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (M9032(A)) and 60g Hydroxylamine Sulfate (M9174) in 500mL Milli-Q-H_2O
Exp. 4/19/10

#M9211 10/21/09 TCLP Extraction Fluid: Fill a 2L carboy w/ 19L D.I H_2O. Add 114mL Glacial Acetic Acid (AB. 446) and 128.6mL 10N NaOH (M9195). Dilute to 20L w/ DI H_2O and mix.
The pH = 4.93 ± 0.05

#M9212 10-21-09 ICL-500-6 Spex Env. Express lot # 09-3031 ex 10/10
2

#M9213 10/26/09 GJE — Hg Working Stds: (0.2% HNO3, HCl)
- 1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg
- 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
- 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
- 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
- 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
- 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
- 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
- 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M9214 10/26/09 GJE — Hg Alt Source Working Std: (0.2% HNO3, HCl)
- 1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
- 1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M9215 10/26/09 GJE — Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)
- 3.0ml of 100ug/L Hg (#M9214) into 100ml = 3.0ug/L Hg

#M9216 10/26/09 GJE — Hg MRL:
- 0.2ml of 100ug/L Hg (#M9214) into 100ml = 0.2ug/L Hg

#M9217 10/26/09 GJE — Hg Aqua Regia Reagent:
- "Carefully" in hood, mix 3 parts HCl (AB: 453) with 1part HNO3 (AB: 467)

#M9195 10/07/09 TCLP Extraction Fluid #1: Fill a 20L carboy with 19L D.I. H_2O. Add 114mL (Glacial Acetic Acid (AB:446) and 128.6mL 10N NaOH (M9185). Dilute to 20L with D.I. H_2O and mix. The pH= 4.93 ± 0.05
AMA

#M9196 10/09/09 Turbidity Working Stds: Into 20mLs pipet from #M8730 (200 NTU)
GAE
Gel Ex Stds:
4.85 — 2.0mL into 18mL D.I. H_2O = 20 NTU
57.6 — 10mL into 10mL D.I. H_2O = 100 NTU
542 — 20mL into 0mL D.I H_2O: 200 NTU
(Exp 12/10)

#M9197 10/13/09 1N HCl for TCLP: Into a 1L Vol flask, partially filled w/ milli-Q H_2O, add 83mL of conc. HCL (AB:460) and bring up to volume with milliQ H_2O.
LSF

#M9198 10/14/09 Potassium Persulfate: 50g Potassium Persulfate (#M9010) dissolved into 1000mL D.I. H_2O. Exp. 04/14/10
GAE

#M9199 10/14/09 Hg Working Stds: (0.2% HNO3, HCl)
GAE
1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M9200 10/14/09 Hg Alt Source Working Std: (0.2% HNO3, HCl)
GAE
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M9201 10/14/09 Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)
GAE
3.0ml of 100ug/L Hg (#M) into 100ml = 3.0ug/L Hg

#M9202 10/14/09 Hg MRL:
GAE
0.2ml of 100ug/L Hg (#M) into 100ml = 0.2ug/L Hg

#M9203 10/14/09 Hg Aqua Regia Reagent:
GAE
"Carefully" in hood, mix 3 parts HCl (AB: 453) with 1part HNO3 (AB: 460)

#M9204 10/14/09 TCLP Extraction Fluid #1: Fill a 20L carboy w/ 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB:446) and 128.6mL 10N NaOH (M9185). Dilute to 20L w/ RI H_2O and mix. The pH = 4.93 ± 0.05
LSF

#M9205 10/1
GAE

#M9206 10/19
GAE

#M9207 10/1
GAE

#M9208 10/19
GAE

#M9209 10/19
GAE

#M9210 10/1
AMA

#M9211 10

#M9212

#M9213
GAE

#M9214 10
GAE

#M9215 10/
GAE

#M9216 10/
GAE

#M9217 10/2

#M9185 GE 10N NaOH: Into a 1L Vol. Flask, partially filled with D.I. H_2O, dissolve 400g NaOH (#W22141) and bring up to volume with D.I. H_2O. Exp. 09/23/10
09/23/09

#M9184 Working stds Ag Dil to 3 1000 ml Vol flasks pipet respectively
9.24.09
5% HNO_3
5% HCL
1ug/L => 0.001 mls of M9052
10ug/L => 0.01 mls of M9052
100ug/L => 0.1 mls of M9052
Bring up to mark with $DI H_2O$ ex 6/2010

#M9187 9-24-09 ICV/CCV Std Ag Dil to 500 ml Vol flask pipet 5.0 mls of #M9186
5% HNO_3 Bring up to mark with DI H_2O. ex 8/2010.
5% HCL

#M9188 Spex Certiprep QC-7 Lot# 6-123-QS ex 9/2010.
9-25-09

#M9189 GE GFAA LDR Study Standard Into a 200mL Vol. flask, pipet 0.6mL of #M8581
09/29/09 1% HNO_3 and bring up to volume. Exp. 04-01-10

#M9190 GE 10/05/09	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9191 GE 10/05/09	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9192 GE 10/05/09	Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 9191) into 100ml = 3.0ug/L Hg
#M9193 GE 10/05/09	Hg MRL:	0.2ml of 100ug/L Hg (#M 9191) into 100ml = 0.2ug/L Hg
#M9194 GE 10/05/09	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 453) with 1part HNO3 (AB: 460)

#M9183 3051 LOD
9-23-09

M9183

3051LOD Base SPIKE PREPARATION

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	Log #	LOD (ug/L)	Std Concmount (mg/L)	(mL) to pipet into 1 L
Ag	M9052	1.1	1000	0.055
Al	M8967	8	**10000**	0.04
Ba	M8959	0.5	1000	0.025
Be	M8840	0.2	1000	0.01
Cd	M9055	0.12	1000	0.006
Co	M8726	1.1	1000	0.055
Cr	M8725	1.4	1000	0.07
Cu	M8961	1.4	**10000**	0.007
Mn	M8842	0.4	1000	0.02
Mo	M8843	0.7	1000	0.035
Ni	M8728	2.9	1000	0.145
Pb	M8734	1.2	1000	0.06
V	M8056	0.9	1000	0.045
Zn	M8731	0.5	1000	0.025
B	M9140	6	1000	0.3

Of this Base standard pipet 10 mls into 500 ml volumetric.

12/09
~~EX 01 2010~~ 9-23-09

#M9185
09/23/09

#M918
9-24-09
5
5

#M918
5% HNO
5% HCL

#M9184 3051 LOQ
9-23-09

M9184

3051LOQ Base SPIKE PREPARATION

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	Log #	LOD (ug/L)	Std Concmount (mg/L)	(mL) to pipet into 1 L
Ag	M9052	3.6	1000	0.18
Al	M8967	28	**10000**	0.14
Ba	M8959	1.7	1000	0.085
Be	M8840	0.66	1000	0.033
Cd	M9055	0.39	1000	0.0195
Co	M8726	3.8	1000	0.19
Cr	M8725	4.8	1000	0.24
Cu	M8961	4.8	**10000**	0.024
Mn	M8842	2.2	1000	0.11
Mo	M8843	2.5	1000	0.125
Ni	M8728	9.6	1000	0.48
Pb	M8734	4.1	1000	0.205
V	M8056	12	1000	0.6
Zn	M8731	21	1000	1.05
B	M9140	18	1000	0.9

Of this Base standard pipet 10 mls into 500 ml volumetric

EY 12-09
~~EX 01 2010~~ 9-23-09

#M9173 09/17/09 GLE — ICP Spiking Solution (24 mos hold) (1% HNO_3)
Into a 250mL Vol. Flask, pipet the following and bring up to volume with D.I. H_2O (Exp 12/15/09)
20.0mL of 1000mg/L Ba (#M8859)
0.5mL of 1000mg/L Be (#M8840)
10.0mL of 10000mg/L Cu (#M8961)
5.0mL of 1000mg/L Ni (#M8728)
10.0mL of 10000mg/L Zn (#M8963)

#M9174 09/17/09 GLE — Hydroxylamine Sulfate Fisher Lot No. 086451 f.w. 164.14

#M9175 09/21/09 GLE	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9176 09/21/09 GLE	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9177 09/21/09 GLE	Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 9176) into 100ml = 3.0ug/L Hg
#M9178 09/21/09 GLE	Hg MRL:	0.2ml of 100ug/L Hg (#M 9176) into 100ml = 0.2ug/L Hg
#M9179 09/21/09 GLE	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 445) with 1part HNO3 (AB: 454)

#M9180 09/21/09 GLE — NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M8577(A)) and 60g Hydroxylamine Sulfate (#M9174) in 500mL Milli-Q H_2O. (Exp 3-21-10)

#M9181 09/22/09 GLE — Nickel Nitrate (1% Ni in 2% HNO_3) Alfa-Aesar Lot No. 93-096500T

#M9182 09/23/09 GLE — TCLP Extraction Fluid #1: Fill a 20L carboy w/ 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (A.B446) and 128.6mL 10N NaOH (#M9033) Dilute to 20mL w/ DI H_2O and Mix. The pH = 4.93 ± 0.05

#M9170 9/14/09 LOQ
AMA Base Std.
5% HNO_3 (water)
5% HCl

#M9170

LOQ Check Base SPIKE PREPARATION

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	Log #	LOQ (ug/L)	Std Conc (mg/L)	mount (mL) to pipet into 1 L	
Ag	M9052	3.2	1000	0.16	
Al	M8967	24	**10000**	0.12	
As	M9058	9.9	1000	0.495	
Ba	M8959	1.6	1000	0.08	
Be	M8840 2/10	0.41	1000	0.0205	
Ca	M8964	29	**10000**	0.145	
Cd	M9055	0.53	1000	0.0265	
Co	M8726 12/09	1.1	1000	0.055	
Cr	M8725 12/09	3	1000	0.15	
Cu	M8961	6.3	**10000**	0.0315	
Fe	M8962	25	**10000**	0.125	
Mg	M8845	22	**10000**	0.11	
Mn	M8842 2/10	6.5	1000	0.325	
Mo	M8843 2/10	1	1000	0.05	
Ni	M8728 12/09	3.5	1000	0.175	
Pb	M8734 12/09	4.9	1000	0.245	
Sb	M9053	11	1000	0.55	
Se	M9054	7.7	1000	0.385	
Tl	M8844 2/10	5.1	1000	0.255	
V	M9056	3	1000	0.15	
Zn	M8731 12/09	1.6	1000	0.08	
Na	M8738 12/09	640	**10000**	3.2	
K	M8737 12/09	470	**10000**	2.35	
B	M9140	20	1000	1	
Si	M9121	51	1000	2.55	
Li	M8727 12/09	7.6	1000	0.38	Of this Base standard pipet 10 mls into 500 ml volumetric.
Sn	M8732 12/09	7.3	1000	0.365	
Sr	M8736 12/09	12	1000	0.6	
Ti	M8735 12/09	22	1000	1.1	
W	M8733 12/09	32	1000	1.6	EX 01-2010

#M9171 09/14/09 LOQ Base Std
AMA (water)
5% HNO_3
5% HCl

#M9171

LOQ Check Base SPIKE PREPARATION

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	Log #	LOQ (ug/L)	Std Conc (mg/L)	mount (mL) to pipet into 1 L	
Ag	M9052	1	1000	0.05	
Al	M8967	7	**10000**	0.035	
As	M9058	3.1	1000	0.155	
Ba	M8959	0.5	1000	0.025	
Be	M8840 2/10	0.12	1000	0.006	
Ca	M8964	9	**10000**	0.045	
Cd	M9055	0.16	1000	0.008	
Co	M8726 12/09	0.3	1000	0.015	
Cr	M8725 12/09	1	1000	0.05	
Cu	M8961	1.9	**10000**	0.0095	
Fe	M8962	8	**10000**	0.04	
Mg	M8845	7	**10000**	0.035	
Mn	M8842 2/10	1.9	1000	0.095	
Mo	M8843 2/10	0.3	1000	0.015	
Ni	M8728 12/09	1	1000	0.05	
Pb	M8734 12/09	1.5	1000	0.075	
Sb	M9053	3	1000	0.15	
Se	M9054	2.3	1000	0.115	
Tl	M8844 2/10	1.5	1000	0.075	
V	M9056	0.9	1000	0.045	
Zn	M8731 12/09	0.5	1000	0.025	
Na	M8738 12/09	190	**10000**	0.95	
K	M8737 12/09	140	**10000**	0.7	
B	M9140	6	1000	0.3	
Si	M9121	15	1000	0.75	
Li	M8727 12/09	2.3	1000	0.115	Of this Base standard pipet 10 mls into 500 ml volumetric.
Sn	M8732 12/09	2.2	1000	0.11	
Sr	M8736 12/09	4	1000	0.2	
Ti	M8735 12/09	7	1000	0.35	
W	M8733 12/09	9	1000	0.45	EX 01-2010

#M9172 9/16/09 TCLP Extraction Fluid #2: Into a 20L carboy, pipet 11.4mL Glacial Acetic Acid (AB-446)
AMA and dilute to 20L with D.I. H_2O. The pH = 2.88 ± 0.05. Exp. 9/16/10

#M917
#M9174
6
#M9175
6
#M9176
G
#M9177
GvE
#M9178
GvE
#M9179
GvE
#M9180
09/21/09 GvE
#M9181
09/22/09 Gv
#M9182
09/23/09 JF

#M9163 LOD Base Std. (Soil)
9/11/09 tma

5% HNO_3 / HCL

#M9162

LOQ Check Base SPIKE PREPARATION

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	Log #	LOD (ug/L)	Std Concmount (mg/L)	(mL) to pipet into 1 L	
Ag	M9052	0.9	1000	0.045	
Al	M8967	3	10000	0.015	
As	M9058	3	1000	0.15	
Ba	M8959	0.7	1000	0.035	
Be	M8840 2/10	0.2	1000	0.01	
Ca	M8964	14	10000	0.07	
Cd	M9055	0.2	1000	0.01	
Co	M8726 12/09	0.4	1000	0.02	
Cr	M8725 12/09	1	1000	0.05	
Cu	M8961	2.3	10000	0.0115	
Fe	M8962	15	10000	0.075	
Mg	M8845	4	10000	0.02	
Mn	M8842 2/10	1.3	1000	0.065	
Mo	M8843 2/10	0.4	1000	0.02	
Ni	M8728 12/09	0.5	1000	0.025	
Pb	M8734 12/09	1	1000	0.05	
Sb	M9053	2	1000	0.1	
Se	M9054	3	1000	0.15	
Tl	M8844 2/10	2	1000	0.1	
V	M9056	1	1000	0.05	
Zn	M8731 12/09	1	1000	0.05	
Na	M8738 12/09	100	10000	0.5	
K	M8737 12/09	200	10000	1	
B	M9140	6	1000	0.3	
Si	M9121	21	1000	1.05	
Li	M8727 12/09	3	1000	0.15	Of this Base standard pipet 10 mls into 500 ml volumetric.
Sn	M8732 12/09	3	1000	0.15	
Sr	M8736 12/09	0.7	1000	0.035	
Ti	M8735 12/09	3	1000	0.15	
W	M8733 12/09	5	1000	0.25	EX 01-2010

#M9164 GLE 9/14/09 — Hg Working Stds: (0.2% HNO3, HCl)

1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M9165 GLE 09/14/09 — Hg Alt Source Working Std: (0.2% HNO3, HCl)

1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M9166 GLE 09/14/09 — Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)

3.0ml of 100ug/L Hg (#M9165) into 100ml = 3.0ug/L Hg

#M9167 GLE 09/14/09 — Hg MRL:

0.2ml of 100ug/L Hg (#M9165) into 100ml = 0.2ug/L Hg

#M9168 GLE 09/14/09 — Hg Aqua Regia Reagent:

"Carefully" in hood, mix 3 parts HCl (AB: 445) with 1part HNO3 (AB: 454)

#M9169 GLE 09/14/09 — Potassium Permanganate Soln: 50g Potassium Permanganate (#M8969) dissolved into 1000 mL Milli-Q H_2O Exp. 3/14/10

#M9159 09/09/09 Potassium and Sodium Icp working stds. using a 200mL vol. flask for each std.
AM pipet:

5% HNO_3
5% HCL
Bring up to mark with D.I. H_2O

0.5mg/L → 0.01 mLs of M8737 and M8738
1.0 mg/L → 0.02 mLs of M8737 and M8738
5.0 mg/L → 0.1mLs of M8737 and M8738
10.0 mg/L → 0.2mLs of M8737 and M8738
50.0 mg/L → 1.0mLs of M8737 and M8738
100.0 mg/L → 2.0 mLs of M8737 and M8738
200.0 mg/L → 4.0 mLs of M8737 and M8738 JX 12/09

#M9160 9-10-09 Potassium & Sodium ICV/CCV/LCSW into 500 ml Vol. flask
AM pipet 100mLs from M9060 & M9059 Bring up to mark
5% HNO_3 with DI H_2O. JX 6.0010.
5% HCL

M9161 09-11-09 TCLP Extraction Fluid #1: Fill a 2L Carboy w/1gL D.I. H_2O. Add 11.4mL Glacial Acetic
ISF Acid (A·6446) and 128.6mL 1ow NaOH (#M9033). Dilute to 20L w/DI H_2O and mix. The pH = 4.93 ± 0.05

#M9162 09/11/09 LOQ
AM Base Std.
(Soil)
5% HNO_3/HCL

#M9162
LOQ Check Base SPIKE PREPARATION

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	Log #	LOQ (ug/L)	Std Concmount (mg/L)	(mL) to pipet into 1 L
Ag	M9052	2.9	1000	0.145
Al	M8967	9	10000	0.045
As	M9058	11	1000	0.55
Ba	M8959	2.2	1000	0.11
Be	M8840 2/10	0.67	1000	0.0335
Ca	M8964	43	10000	0.215
Cd	M9055	0.6	1000	0.03
Co	M8726 12/09	1.2	1000	0.06
Cr	M8725 12/09	2	1000	0.1
Cu	M8961	7.6	10000	0.038
Fe	M8962	48	10000	0.24
Mg	M8845	14	10000	0.07
Mn	M8842 2/10	4.5	1000	0.225
Mo	M8843 2/10	1.4	1000	0.07
Ni	M8728 12/09	1.8	1000	0.09
Pb	M8734 12/09	5	1000	0.25
Sb	M9053	7	1000	0.35
Se	M9054	9	1000	0.45
Tl	M8844 2/10	7	1000	0.35
V	M9056	2	1000	0.1
Zn	M8731 12/09	4	1000	0.2
Na	M8738 12/09	300	10000	1.5
K	M8737 12/09	500	10000	2.5
B	M9140	19	1000	0.95
Si	M9121	71	1000	3.55
Li	M8727 12/09	11	1000	0.55
Sn	M8732 12/09	8	1000	0.4
Sr	M8736 12/09	2.33	1000	0.1165
Ti	M8735 12/09	11	1000	0.55
W	M8733 12/09	15	1000	0.75

Of this Base standard pipet 10 mls into 500 ml volumetric.

EX 01-2010

#M9148 09/02/09 GE	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9149 09/02/09 GE	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9150 09/02/09 GE	Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 9149) into 100ml = 3.0ug/L Hg
#M9151 09/02/09 GE	Hg MRL:	0.2ml of 100ug/L Hg (#M 9149) into 100ml = 0.2ug/L Hg
#M9152 09/02/09 GE	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 445) with 1part HNO3 (AB: 454)

#M9153 ICSAB Na, K into 500 ml vol flask pipet. ~~25ml~~ 23-09 50mls #M8747 9-3-09 15mls #M8462, 50mls M9060, 50mls #M9059 Bring up to mark with DI H_2O. ex 1/10

#M9154 09/08/09 GE	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9155 09/08/09 GE	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9156 09/08/09 GE	Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M) into 100ml = 3.0ug/L Hg
#M9157 09/08/09 GE	Hg MRL:	0.2ml of 100ug/L Hg (#M) into 100ml = 0.2ug/L Hg
#M9158 09/08/09 GE	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 445) with 1part HNO3 (AB: 454)

#M9142 8/27/09 TCLP Extraction Fluid #1: Fill a 20L carboy with 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB-446) and 128.6mL 10N NaOH (#M9033). Dilute to 20L with D.I. H_2O and mix. The pH = 4.93 ± 0.05
AMA Exp. 8/27/10

#M9143 09/01/09 GFAA 3020 MDL ✓ Soln (1% HNO_3) 1.0mL of 1000µg/L Ag (#9052), 1000mg/L Pb (#M8734), 1000mg/L Tl (#M8844) → 100mL = 10,000µg/L Ag, Pb, Tl
GJE 09/01/09 GJE
10mL of 10,000µg/L Ag, Pb, Tl → 100mL = 1000µg/L Ag, Pb. 09/01/09 GJE

#M9143 09/01/09 GFAA 3020 MDL ✓ Soln (1% HNO_3) 0.04mL of 1000mg/L Pb (#M8734); 0.04mL of 1000mg/L Tl (#M8844); 0.0029mL Ag (#M9052) → 100mL = 400µg/L Pb, 400µg/L Tl, & 29µg/L Ag
GJE Exp. 12-15-09
1mL of 400µg/L Pb, Tl & 29µg/L Ag → 1000mL = 0.4µg/L Pb, Tl; 0.029µg/L Ag

#M9144 09/01/09 GFAA MDL ✓ Soil Spiking Solution (1% HNO_3) Pipet the following into a 1L Vol. flask and bring up to volume with D.I. H_2O. Exp. 12/15/09
GJE
0.002mL of 1000mg/L Ag (#M9052)
0.04mL of 1000mg/L Pb (#M8734)
0.05mL of 1000mg/L Sb (#M9053)
0.07mL of 1000mg/L As (#M9058)
0.075mL of 1000mg/L Se (#M9054)
0.035mL of 1000mg/L Tl (#M8844)

#M9145 09/01/09 GFAA LOQ ✓ Soil Spiking Solution (1% HNO_3) Into a 1L Vol. Flask, pipet the following and bring up to volume with D.I. H_2O. Exp. 12/15/09
GJE
0.0075mL of 1000mg/L Ag (#M9052)
0.135mL of 1000mg/L Pb (#M8734)
0.165mL of 1000mg/L Sb (#M9053)
0.24mL of 1000mg/L As (#M9058)
0.25mL of 1000mg/L Se (#M9054)
0.125mL of 1000mg/L Tl (#M8844)

#M9146 09/01/09 GFAA 3020 LOQ ✓ Soln (1% HNO_3) Pipet 0.096mL Ag (#M9052), 1.4mL Tl (#M8844) & 1.3mL Pb 1000mg/L (#M8734) → 100mL = 960µg/L Ag, 14,000 Tl, & 13,000µg/L Pb
GJE 09/01/09 GJE Exp. 12-15-09
Pipet 10mL of 960µg/L Ag, 14000 Tl, & 13000µg/L Pb → 100mL = 1400µg/L Tl, 1300µg/L Pb, 96µg/L
Pipet 1mL of 1400µg/L Tl, 1300µg/L Pb, 96µg/L Ag → 1000mL = 1.4µg/L Tl, 1.3µg/L Pb, 0.096µg/L

#M9147 09/01/09 TCLP Extraction Fluid #1: Fill a 20L carboy with 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB-446) and 128.6mL 10N NaOH (#M9033). Dilute to 20L w/ D.I. H_2O and mix. The pH = 4.93 ± 0.05
GJE

#M9148 09/
GJE

#M9149 09/02/
GJE

#M9150 09/02/
GJE

#M9151 09/
GJE

#M9152 09
GJE

#M9153
JA

#M9154 0
GJE

#M9155 09/
GJE

#M9156 09/0
GJE

#M9157 09/
GJE

#M9158 09/
GJE

#M9129 08/24/09 Tin (II) Chloride Dihydrate Fisher Lot No. 091749 500g f.w. 225.65
GLE

#M9130 08/24/09 Tin (II) Chloride Dihydrate Fisher Lot No. 086821 500g f.w. 225.65
GLE

#M9131 08/24/09 Turbidity Standard 2.0 NTU AMCO Clear Lot No. P997117
GLE Expires August 2010

#M9132 8/24/09 TCLP Extraction Fluid #1: Fill a 20L carboy with 19L D.I. H_2O. Add 114mL
AMG Glacial Acetic Acid (AB:4446) and 128.6mL 10N NaOH
(#M9033). Dilute to 20L with D.I. H_2O and mix.
The pH = 4.93 ± 0.05. Exp. 8/24/10

#M9133 8/26/09 GLE	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9134 08/26/09 GLE	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9135 08/26/09 GLE	Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9134) into 100ml = 3.0ug/L Hg
#M9136 08/26/09 GLE	Hg MRL:	0.2ml of 100ug/L Hg (#M9134) into 100ml = 0.2ug/L Hg
#M9137 08/26/09 GLE	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 445) with 1part HNO3 (AB: 454)

#M9138 08/26/09 Stannous Chloride Reagent - Into a 1000mL Vol. Flask, dissolve 100g Stannous
GLE Chloride (#M8811(6)) in 70mL HCL (AB. 445).
Bring up to mark with D.I. H_2O. Exp. 8/26/10

#M9139 08/26/09 NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#9577(A)) and 60g
AMG Hydroxylamine Sulfate (#M9810) in 500mL
Milli-Q H_2O. Exp. 2/26/10

#M9140 ✓ 8-27-09 Boron 1000 mg/L Spex Certiprep Lot# 15-68B ex Aug 2009

#M9141 ✓ 8-27-09 Custom Assurance Std Spex Certiprep Lot # ~~XETWI-500~~ 19-60IB

#M9118 3051 Spiking Solution (1% HNO_3) Expires: 12/15/09 — Into a 500mL Vol. Flask, pipet the following and bring up to volume with D.I. H_2O.
- 2.5mL Ag (#M9052) 1000 mg/L
- 50mL B (#M8841) 1000 mg/L
- 25 ~~2.5~~mL Co (#M8726) 1000 mg/L 08/14/09 GLE
- 2.5mL Cd (#~~M8553~~ M9055) 1000 mg/L 08/14/09 GLE
- 0.5mL Sb (#M9053) 1000 mg/L
- 50mL Mo (#M8843) 1000 mg/L
- 50mL Mn (#M8966) 10,000 mg/L

08/14/09 GLE

#M9119 GLE GFAA Base Std (25µg/L) (1% HNO_3) 08/14/09 — Pipet 10mL of 100 µg/mL (#M8881) → 200mL = 5000µg/L; 10mL of 5000µg/L → 200mL = 250µg/L; 20mL of 250µg/L → 200mL = 25µg/L (Exp. 04/01/10)

#M9120 GLE GFAA Alt. Source Std (10µg/L) (1% HNO_3) 08/14/09 — Pipet 10mL of 10µg/mL (#M8880) → 08/14/09 GLE 100mL = 1000µg/L; 10mL of 1000µg/L → 100mL = 100µg/L; 20mL of 100µg/L → 200mL = 10µg/L

#M9121 Silicon 1000mg/L Fisher Lot # 081816 ex 4/10 8-17-09

#M9122 AMA Potassium Persulfate: 50g Potassium Persulfate (#8228) dissolved into 1000mL D.I. H_2O. Exp. 2/19/10 8/19/09

#M9123 AMA Potassium Permanganate soln: 50g Potassium Permanganate (#M8969) dissolved into 1000mL Milli-Q H_2O. Exp. 2/19/10 8/19/09

#M9124 AMA 8/19/09 — Hg Working Stds: (0.2% HNO3, HCl)
- 1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg
- 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
- 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
- 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
- 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
- 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
- 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
- 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M9125 AMA 8/19/09 — Hg Alt Source Working Std: (0.2% HNO3, HCl)
- 1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
- 1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M9126 AMA 8/19/09 — Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)
- 3.0ml of 100ug/L Hg (#M 9125) into 100ml = 3.0ug/L Hg

#M9127 AMA 8/19/09 — Hg MRL:
- 0.2ml of 100ug/L Hg (#M9125) into 100ml = 0.2ug/L Hg

#M9128 AMA 8/19/09 — Hg Aqua Regia Reagent:
- "Carefully" in hood, mix 3 parts HCl (AB: 444) with 1part HNO3 (AB: 448)

#M9129 G
#M9130 G
#M9131 G
#M9132 AM
#M9133 GLE
#M9134 GLE
#M9135 GLE
#M9136 GLE
#M9137 GLE
#M9138 GLE
#M9139 AMA

mb
H_2O

#M9108 AMA 8/11/09 AMA — NaCl ~~Hydrochloride~~ Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#8577(A)) and 60g Hydroxylamine Sulfate (#M8810) in 500mL Milli-Q H_2O. Exp 2/11/10

#M9109 AMA 8/11/09 — 1mL N H_2O	Hg Working Stds: (0.2% HNO_3, HCl)	1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9110 AMA 8/11/09	Hg Alt Source Working Std: (0.2% HNO_3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9111 AMA 08/11/09	Hg ICV/CCV/LCSW: (0.2% HNO_3, HCl)	3.0ml of 100ug/L Hg (#M) into 100ml = 3.0ug/L Hg
#M9112 AMA 8/11/09	Hg MRL:	0.2ml of 100ug/L Hg (#M) into 100ml = 0.2ug/L Hg
#M9113 AMA 8/11/09	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 444) with 1part HNO_3 (AB: 448)

#M9114 GvE 08/12/09 — GFAA Spiking Solution (4.5min) (1% HNO_3) — Into a 200mL Vol. Flask, pipet the following and bring up to volume with D.I. H_2O. (Exp. 6-30-10)
1.0mL of 1000mg/L As (#M9058)
0.2mL of 1000mg/L Se (#M8555) 9054 08/12/09 GvE

#M9115 GvE 08/13/09 — ICP Spiking Solution (7min) (1% HNO_3) — Into a 200mL Vol. Flask, pipet the following and bring up to volume with D.I. H_2O (Exp. 12-15-09)
4.0mL of 1000mg/L Cr (#M8775)
10.0mL of 1000mg/L Pb (#M9056) 8734 } 08/13/09 GvE
10.0mL of 1000mg/L V (#M8734) 9056 }

#M9116 GvE 08/13/09 — Spike Sample Standard 1 — Spex Certiprep Lot No. 41-10AS Exp. 08-15-10

#M9117 GvE 08/14/09 — Turbidity Working Stds: Into 20mLs pipet from #M8730 (200 NTU)
Cal Ex Stds: 4.25 — 2.0mL into 18mLs D.I. H_2O = 20 NTV
55.4 — 10mLs into 10mLs D.I. H_2O = 100 NTV
557 — 20mLs into 0mLs D.I. H_2O = 200 NTV
(Exp. 12/10)

Na, K, ICV, CCV, LCSW

M9097 Into 500 ml vol flask pipet from #M9059(Na) 50mL & 50mL from #M9060(K) bring up to mark with DI H_2O
8-2-09 ex 7/10.

#M9098 08/04/09 TCLP Extraction Fluid #1: Fill a 20L Carboy with 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB·446) and 128.6 mL 10N NaOH (#M9033). Dilute to 20L with D.I. H_2O and mix. The pH = 4.93 ± 0.05.

#M9099 08/05/09 AMA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9100 08/05/09 AMA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9101 08/05/09 AMA	Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M) into 100ml = 3.0ug/L Hg
#M9102 08/05/09 AMA	Hg MRL:	0.2ml of 100ug/L Hg (#M) into 100ml = 0.2ug/L Hg
#M9103 08/05/09 AMA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 444) with 1part HNO3 (AB: 448)

#M9104 AMA 08/05/09 Potassium Permanganate Soln: 50g Potassium Permanganate (#7841) dissolved into 1000mL Milli-Q H_2O. Exp. 2/5/10

#M9105 8-10-09 Tungsten 1000mg/L SPC Science Plasma cal Lot # SCQ007661 ex 10/10

#M9106 AMA 8/10/09 SPLP Extraction Fluid #1: Into a 20L carboy, add D.I. H_2O to mark and adjust pH to 4.20 ± 0.05 with M8367. Exp. 8/10/10

#M9107 AMA 08/10/09 TCLP Extraction Fluid #2: Into a 20L carboy, pipet 114mL Glacial Acetic Acid (AB·446) and dilute to 20L with D.I. H_2O. The pH = 2.88 ± 0.05 Exp. 08/10/10

M9095 MDL ~~100~~ Check 3010 Base Std.
8-2-09

#M9095

MDL Check Base SPIKE PREPARATION for 3010

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	Log Book Number & Expire Date	MDL (ug/L)	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	M9052	1.8	1000	0.09
Al	M8967	6	10000	0.03
As	M9058	6	1000	0.3
Ba	M8959	1	1000	0.05
Be	M8840 2/10	0.24	1000	0.012
Ca	M8964	8	10000	0.04
Cd	M9055	0.4	1000	0.02
Co	M8726 12/09	0.6	1000	0.03
Cr	M8725 12/09	1	1000	0.05
Cu	M8961	3.8	10000	0.019
Fe	M8962	16	10000	0.08
Mg	M8845	14	10000	0.07
Mn	M8842 2/10	4	1000	0.2
Mo	M8843 2/10	0.6	1000	0.03
Ni	M8728 12/09	1.2	1000	0.06
Pb	M8734 12/09	2.6	1000	0.13
Sb	M9053	4	1000	0.2
Se	M9054	4	1000	0.2
Tl	M8844 2/10	2	1000	0.1
V	M9056	1.2	1000	0.06
Zn	M8731 12/09	1.6	1000	0.08
Na	M8737 12/09	200	10000	1
K	M8738 12/09	200	10000	1
B	M8841 2/10	12	1000	0.6
Si	M8565 8/09	30	1000	1.5
Li	M8727 12/09	2.6	1000	0.13
Sn	M8732 12/09	2	1000	0.1
Sr	M8736 12/09	2.2	1000	0.11
Tl	M8735 12/09	10	1000	0.5
W	M8733 12/09	6	1000	0.3

Of this Base standard pipet 10 mls into 500 ml volumetric to create working std or 1 ml into 50 ml digestion tube for digested working standard.
Bring up to mark with DI H20 Expires .12/09

M9096 MDL Check 3050 Base Std
8-2-09

#M9096

MDL Check Base SPIKE PREPARATION for 3050

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	Log Book Number & Expire Date	MDL (ug/L)	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	M9052	1.8	1000	0.09
Al	M8967	4	10000	0.02
As	M9058	6	1000	0.3
Ba	M8959	1.04	1000	0.052
Be	M8840 2/10	0.28	1000	0.014
Ca	M8964	16	10000	0.08
Cd	M9055	0.4	1000	0.02
Co	M8726 12/09	0.8	1000	0.04
Cr	M8725 12/09	1.4	1000	0.07
Cu	M8961	3.2	1000	0.16
Fe	M8962	22	10000	0.11
Mg	M8845	8	10000	0.04
Mn	M8842 2/10	1.6	1000	0.08
Mo	M8843 2/10	0.6	1000	0.03
Ni	M8728 12/09	1	1000	0.05
Pb	M8734 12/09	2	1000	0.1
Sb	M9053	4	1000	0.2
Se	M9054	6	1000	0.3
Tl	M8844 2/10	4	1000	0.2
V	M9056	2	1000	0.1
Zn	M8731 12/09	2	1000	0.1
Na	M8737 12/09	200	10000	1
K	M8738 12/09	400	10000	2
B	M8841 2/10	12	1000	0.6
Si	M8565 8/09	42	1000	2.1
Li	M8727 12/09	6	1000	0.3
Sn	M8732 12/09	6	1000	0.3
Sr	M8736 12/09	1.4	1000	0.07
Tl	M8735 12/09	6	1000	0.3
W	M8733 12/09	10	1000	0.5

Of this Base standard pipet 10 mls into 500 ml volumetric to create working std or 1 ml into 50 ml digestion tube for digested working standard.

#M9088 GE 07/28/09 — Hg Working Stds: (0.2% HNO3, HCl)

1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M9089 GE 07/28/09 — Hg Alt Source Working Std: (0.2% HNO3, HCl)

1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M9090 GE 07/28/09 — Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)

3.0ml of 100ug/L Hg (#M 9089) into 100ml = 3.0ug/L Hg

#M9091 GE 07/28/09 — Hg MRL:

0.2ml of 100ug/L Hg (#M 9089) into 100ml = 0.2ug/L Hg

#M9092 GE 07/28/09 — Hg Aqua Regia Reagent:

"Carefully" in hood, mix 3 parts HCl (AB: 444) with 1part HNO3 (AB: 448)

#M9093 MRL Base 8-2-09

MRL Check Base SPIKE PREPARATION

Into a 1000 mL Volumetric Flask, pipet the following:

Log#	Analyte	(ug/L)	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
M9052	Ag	20	1000	1
M8967	Al	400	10000	2
M9058	As	10	1000	0.5
M8959	Ba	10	1000	0.5
M8840	Be	4	1000	0.2
M8964	Ca	500	10000	2.5
M9055	Cd	5	1000	0.25
M8726	Co	10	1000	0.5
M8725	Cr	10	1000	0.5
M8961	Cu	10	10000	0.05
M8962	Fe	300	10000	1.5
M8845	Mg	500	10000	2.5
M8842	Mn	10	1000	0.5
M8843	Mo	10	1000	0.5
M8728	Ni	10	1000	0.5
M8734	Pb	10	1000	0.5
M9053	Sb	20	1000	1
M9054	Se	10	1000	0.5
M8844	Tl	20	1000	1
M9056	V	10	1000	0.5
M8731	Zn	10	1000	0.5
M8841	B	10	1000	0.5
M8565	Si	10	1000	0.5
M8727	Li	20	1000	1
M8732	Sn	10	1000	0.5
M8736	Sr	10	1000	0.5
M8735	Ti	110	1000	5.5
M8733	W	10	1000	0.5
M8738	Na	1000	10000	5
M8737	K	5000	10000	25

Bring up to mark with DI H2O. Expires 12-09

Of this Base standard pipet 10 mls into 500 ml volumetric to create working std.

#M9094 LOQ Base std 8-2-09

#M9094

LOQ Check Base SPIKE PREPARATION

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	Log #	LOQ (ug/L)	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	M9052	3	1000	0.15
Al	M8967	2	10000	0.01
As	M9058	10	1000	0.5
Ba	M8959	1	1000	0.05
Be	M8840 2/10	0.4	1000	0.02
Ca	M8964	20	10000	0.1
Cd	M9055	0.5	1000	0.025
Co	M8726 12/09	1	1000	0.05
Cr	M8725 12/09	2	1000	0.1
Cu	M8961	5	10000	0.025
Fe	M8962	300	10000	1.5
Mg	M8845	10	10000	0.05
Mn	M8842 2/10	5	1000	0.25
Mo	M8843 2/10	1	1000	0.05
Ni	M8728 12/09	1	1000	0.05
Pb	M8734 12/09	5	1000	0.25
Sb	M9053	5	1000	0.25
Se	M9054	5	1000	0.25
Tl	M8844 2/10	5	1000	0.25
V	M9056	2	1000	0.1
Zn	M8731 12/09	2	1000	0.1
Na	M8737 12/09	20	1000	1
K	M8738 12/09	20	1000	1
B	M8841 2/10	5	1000	0.25
Si	M8565 8/09	5	1000	0.25
Li	M8727 12/09	2	1000	0.1
Sn	M8732 12/09	10	1000	0.5
Sr	M8736 12/09	10	1000	0.5
Ti	M8735 12/09	1000	10000	5
W	M8733 12/09	5000	10000	25

Of this Base standard pipet 10 mls into 500 ml volumetric.

EX 12-09

#M9075 GvE Soil Hg 20A ✓ 0.09mL of 100ng/L Hg (#M9088) into 100mL = 0.09ng/L Hg
07/14/09

#M9076 AMA 07/20/09	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9077 AMA 07/20/09	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M8564) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9078 AMA 7/20/09	Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9077) into 100ml = 3.0ug/L Hg
#M9079 AMA 7/20/09	Hg MRL:	0.2ml of 100ug/L Hg (#M 9077) into 100ml = 0.2ug/L Hg
#M9080 AMA 7/20/09	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 439) with 1part HNO3 (AB: 440)

#M9081 AMA 7/20/09 NaCl Hydroxylamine Sulfate Reagent - Dissolve 60g NaCl (#8577(A)) and 60g Hydroxylamine Sulfate (#M9810) in 500mL Milli-Q water. Exp. 1/20/10

#M9082 GvE 07/20/09 Sodium Chloride Fisher Chemical Lot No. 091363 f.w. 58.44

#M9083 GvE 07/20/09 Tin (II) Chloride Dihydrate Fisher Chemical Lot No. 085968 f.w. 225.65

#M9084 AMA 07/21/09 Potassium Permanganate Soln: 50g Potassium Permanganate (#7841) dissolved into 1000mL Milli-Q H_2O. Exp 01-21-10

#M9085 AMA 7/21/09 TCLP Extraction Fluid #1: Exp. 7/21/10 Fill a 20L carboy with 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB:446) and 128.6mL 10N NaOH (#M9086). Dilute to 20L with D.I. H_2O and mix. The pH = 4.93 ± 0.05

#M9086 AMA 7/21/09 10N NaOH: Into a 1L vol. flask, partially filled with D.I. H_2O, dissolve 400g NaOH (W21448) and bring up to vol. with D.I. H_2O. Exp. 7/21/10

#M9087 AMA 7/21/09 TCLP Extraction Fluid #1: Exp. 7/21/10 Fill a 20L carboy with 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB:446) and 128.6mL 10N NaOH (#M9086). Dilute to 20L with D.I. H_2O and mix. The pH = 4.93 ± 0.05.

#M9062 GLE 07/11/09 TCLP Extraction Fluid #1: Fill a 20L Carboy with 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB:446) and 128.6mL 10N NaOH (#M9033) Dilute to 20L with D.I. H_2O and mix. The pH = 4.93 ± 0.05. Exp. 7-12 ~~Portland Cal~~

#M9063 GLE Mercury Standard (1mg/mL) in 10% HNO_3. ACROS Organics Lot No. A0254552 Exp. 07/28/14

190064 AMA 07/13/09 TCLP Extraction Fluid #1: Fill a 20L carboy with 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB:446) and 128.6mL 10N NaOH (#M9033) Dilute to 20L with D.I. H_2O and mix. The pH = 4.93 ± 0.05. Exp. 7/13/10

190065 AMA 07/13/09 TCLP Extraction Fluid #1: Fill a 20L carboy with 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB:446) and 128.6mL 10N NaOH (#M9033) Dilute to 20L with D.I. H_2O and mix. The pH = 4.93 ± 0.05. Exp. 7/13/10

#M9066 GLE 07/14/09 Potassium Persulfate: 50g Potassium Persulfate (#8228) dissolved into 1000mL D.I. H_2O. Exp. 01/14/10

19067 GLE 07/14/09	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#9068 GLE 07/14/09	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M8564) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#9069 GLE 07/14/09	Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 9068) into 100ml = 3.0ug/L Hg
19070 GLE 07/14/09	Hg MRL:	0.2ml of 100ug/L Hg (#M 9068) into 100ml = 0.2ug/L Hg
19071 GLE 7/14/09	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 439) with 1part HNO3 (AB: 440)
#9072 GLE 07/14/09	Hg Water MDL ✓ (0.2% HNO3, HCl)	0.04mL of 100 µg/L Hg (#M9068) into 100mL = 0.04 µg/L Hg
#9073 GLE 07/14/09	Hg LOQ ✓ Water (0.2% HNO3, HCl)	0.13mL of 100 µg/L Hg (#M9068) into 100mL = 0.13 µg/L Hg
#M9074 GLE 07/14/09	Soil Hg MDL ✓	0.03mL of 100 µg/L Hg (#M9068) into 100mL = 0.03 µg/L Hg

#M9075 GLE Soil Hg 07/14/09

#M9076 AMA 07/20/09 Hg (0.

#M9077 AMA 07/20/09 Hg (0.2

#M9078 AMA 7/20/09 Hg (0.2

#M9079 AMA 7/20/09 Hg

#M9080 AMA 7/20/09 Hg

#M9081 AMA 7/20/09 NaCl Hyd

#M9082 GLE 07/20/09 Sodium C

#M9083 GLE 07/20/09 Tin (II) Ch

#M9084 AMA 07/21/09 Potassium

#M9085 AMA 7/21/09 TCLP Extrac Exp. 7

#M9086 AMA 7/21/09 10N NaOH

#M9087 AMA 7/21/09 TCLP Extra Exp. 7/21

#M8722 12-22-08 : Custom Assurance Std Spex Certiprep lot# 14-56JB. ex Nov 15 2009

#M8723 12-22-08: Spike Sample Std 1 Spex certiprep lot# 6-1116S ex Nov 15 2009

#M8724 12-22-08 Mercury 1000mg/L Spex Certiprep lot# CL4-93HG ex Dec 15 2009

#M8725 12-22-08 Chromium 1000 mg/L Spex Certiprep lot# CL4-80CR ex Dec 15 2009

#M8726 12-22-08 Cobalt 1000mg/L Spex Certiprep lot # CL4-109CO ex 12/15/09

#M8727 12-22-08 Lithium 1000mg/L Spex Certi prep lot # 14-94L; ex 12-15-09

#M8728 12-22-08 Nickel 1000mg/L Spex Certiprep lot # 14-125Ni ex 12-15-09

#M8729 12-22-08 Tin 1000mg/L Fisher lot # 080222 ex 1/2010

#M8730 12-22-08 StableCal Std200NTU Hach lot# A8331 ex Dec/2010 12-22-08

#M8731 12-22-08 Zn 1000mg/L Spex Certiprep lot # 14-472n ex Dec 15 2009

#M8732 12-22-08 Sn 1000mg/L Spex Certiprep lot# CL4-65SN ex Dec 15 2009

#M8733 12-22-08 W 1000mg/L Spex Certiprep lot# PLW2-2Y ex Dec 15 2009

#M8734 12-22-08 Pb 1000mg/L Spex Certiprep lot# CL4-106PB ex 12/15/09

#M8735 12-22-08 Titanium 1000mg/L Spex Certiprep lot# 14-62TI ex 12-15-09

#M8736 12-22-08 Sr 1000 mg/L ~~1000 mg/L~~ 12-22-08 Spex Certiprep lot# PLSR2-2Y ex 12-15-09

#M8737 12-22-08 K 10,000 mg/L Spex Certiprep lot# AA11-93K ex 12-15-09.

#M8738 12-22-08 Na 10,000 mg/L Spex Certiprep lot# PLNA2-3X ex 12-15-09.

#M8739 12-22-08 Quality Control Std 7 Spex Certiprep lot# 6-1236S ex 12-15-09

#M8740 ICSA. ato 500 ml Vol flask pipet 50 mls of M8550 bring up to 1% HCL 12-2408 mark with DI H2O ex 7/09.
1% HNO3 4/5 mls M8552

INORGANIC
CLP FORMS
DOCUMENTS

CT LABORATORIES
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Sample Description

DLASS-001-0001-SO

INORGANIC ANALYSIS DATA SHEET

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.4	Lab Sample ID:	870191
Analytical Method:	EPA 3060A/7196A	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72278	Analysis Date/Time	12/07/2010 13:50
Analytical Prep Batch #:	35690	Prep. Date/Time:	12/07/2010 09:00

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
18540-29-9	Hexavalent Chromium	1.9	U	1.9	2.0	6.5	6.5

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-001-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.4	Lab Sample ID:	870191
Analytical Method:	EPA 8000C	Date Received:	11/11/2010
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72192	Analysis Date/Time	12/02/2010 17:00
Analytical Prep Batch #:		Prep. Date/Time:	

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	98.4					

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Sample Description

DLASS-002-0001-SO

INORGANIC ANALYSIS DATA SHEET

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.1	Lab Sample ID:	870189
Analytical Method:	EPA 3060A/7196A	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72278	Analysis Date/Time	12/07/2010 13:50
Analytical Prep Batch #:	35690	Prep. Date/Time:	12/07/2010 09:00

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers		DL	LOD	LOQ	RL
18540-29-9	Hexavalent Chromium	1.9	U	M	1.9	2.0	6.5	6.5

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-002-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.1	Lab Sample ID:	870189
Analytical Method:	EPA 8000C	Date Received:	11/11/2010
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72192	Analysis Date/Time	12/02/2010 17:00
Analytical Prep Batch #:		Prep. Date/Time:	

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	98.1					

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-002-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.1	Lab Sample ID:	870189
Analytical Method:	EPA 9056M	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72420	Analysis Date/Time	12/11/2010 20:23
Analytical Prep Batch #:	35693	Prep. Date/Time:	12/08/2010 08:00

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
9004-70-0	Nitrocellulose	7.0	U	7.0	N/A	N/A	23

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-002-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.5	Lab Sample ID:	870212
Analytical Method:	EPA 3060A/7196A	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72342	Analysis Date/Time	12/08/2010 16:00
Analytical Prep Batch #:	35712	Prep. Date/Time:	12/08/2010 12:00

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
18540-29-9	Hexavalent Chromium	1.9	U	1.9	2.0	6.5	6.5

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-002-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.5	Lab Sample ID:	870212
Analytical Method:	EPA 8000C	Date Received:	11/11/2010
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72192	Analysis Date/Time	12/02/2010 17:00
Analytical Prep Batch #:		Prep. Date/Time:	

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	98.5					

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-002-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.5	Lab Sample ID:	870212
Analytical Method:	EPA 9056M	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72420	Analysis Date/Time	12/11/2010 22:13
Analytical Prep Batch #:	35693	Prep. Date/Time:	12/08/2010 08:00

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
9004-70-0	Nitrocellulose	7.0	U	7.0	N/A	N/A	23

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-004-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	97.1	Lab Sample ID:	869556
Analytical Method:	EPA 3060A/7196A	Date Received:	11/10/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72278	Analysis Date/Time	12/07/2010 13:50
Analytical Prep Batch #:	35690	Prep. Date/Time:	12/07/2010 09:00

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
18540-29-9	Hexavalent Chromium	2.0	U	2.0	2.1	6.6	6.6

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-004-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	97.1	Lab Sample ID:	869556
Analytical Method:	EPA 8000C	Date Received:	11/10/2010
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72193	Analysis Date/Time	12/02/2010 17:00
Analytical Prep Batch #:		Prep. Date/Time:	

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	97.1					

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-005-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	97.3	Lab Sample ID:	870200
Analytical Method:	EPA 8000C	Date Received:	11/11/2010
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71954	Analysis Date/Time	11/22/2010 12:30
Analytical Prep Batch #:		Prep. Date/Time:	

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	97.3					

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Sample Description

DLASS-005-0001-SO

INORGANIC ANALYSIS DATA SHEET

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	97.3	Lab Sample ID:	870200
Analytical Method:	EPA 3060A/7196A	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71974	Analysis Date/Time	11/23/2010 14:30
Analytical Prep Batch #:	35540	Prep. Date/Time:	11/23/2010 08:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
18540-29-9	Hexavalent Chromium	2.0	U	2.0	2.1	6.6	6.6

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Sample Description

DLASS-006-0001-SO

INORGANIC ANALYSIS DATA SHEET

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.5	Lab Sample ID:	870215
Analytical Method:	EPA 3060A/7196A	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72342	Analysis Date/Time	12/08/2010 16:00
Analytical Prep Batch #:	35712	Prep. Date/Time:	12/08/2010 12:00

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
18540-29-9	Hexavalent Chromium	1.9	U	1.9	2.0	6.5	6.5

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-006-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.5	Lab Sample ID:	870215
Analytical Method:	EPA 8000C	Date Received:	11/11/2010
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72192	Analysis Date/Time	12/02/2010 17:00
Analytical Prep Batch #:		Prep. Date/Time:	

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	98.5					

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-007-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.4	Lab Sample ID:	870209
Analytical Method:	EPA 3060A/7196A	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72342	Analysis Date/Time	12/08/2010 16:00
Analytical Prep Batch #:	35712	Prep. Date/Time:	12/08/2010 12:00

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
18540-29-9	Hexavalent Chromium	1.9	U	1.9	2.0	6.5	6.5

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-007-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.4	Lab Sample ID:	870209
Analytical Method:	EPA 8000C	Date Received:	11/11/2010
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72192	Analysis Date/Time	12/02/2010 17:00
Analytical Prep Batch #:		Prep. Date/Time:	

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	98.4					

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-008-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.1	Lab Sample ID:	870196
Analytical Method:	EPA 3060A/7196A	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72342	Analysis Date/Time	12/08/2010 16:00
Analytical Prep Batch #:	35712	Prep. Date/Time:	12/08/2010 12:00

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
18540-29-9	Hexavalent Chromium	1.9	U	1.9	2.0	6.5	6.5

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-008-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.1	Lab Sample ID:	870196
Analytical Method:	EPA 8000C	Date Received:	11/11/2010
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72192	Analysis Date/Time	12/02/2010 17:00
Analytical Prep Batch #:		Prep. Date/Time:	

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	98.1					

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-009-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	97.2	Lab Sample ID:	869554
Analytical Method:	EPA 3060A/7196A	Date Received:	11/10/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72278	Analysis Date/Time	12/07/2010 13:50
Analytical Prep Batch #:	35690	Prep. Date/Time:	12/07/2010 09:00

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
18540-29-9	Hexavalent Chromium	2.0	U	2.0	2.1	6.6	6.6

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-009-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	97.2	Lab Sample ID:	869554
Analytical Method:	EPA 8000C	Date Received:	11/10/2010
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72193	Analysis Date/Time	12/02/2010 17:00
Analytical Prep Batch #:		Prep. Date/Time:	

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	97.2					

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-010-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	97.6	Lab Sample ID:	869552
Analytical Method:	EPA 3060A/7196A	Date Received:	11/10/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72278	Analysis Date/Time	12/07/2010 13:50
Analytical Prep Batch #:	35690	Prep. Date/Time:	12/07/2010 09:00

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
18540-29-9	Hexavalent Chromium	1.9	U	1.9	2.0	6.6	6.6

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-010-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	97.6	Lab Sample ID:	869552
Analytical Method:	EPA 8000C	Date Received:	11/10/2010
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72193	Analysis Date/Time	12/02/2010 17:00
Analytical Prep Batch #:		Prep. Date/Time:	

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	97.6					

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-011-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	95.6	Lab Sample ID:	870202
Analytical Method:	EPA 8000C	Date Received:	11/11/2010
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71954	Analysis Date/Time	11/22/2010 12:30
Analytical Prep Batch #:		Prep. Date/Time:	

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	95.6					

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-011-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	95.6	Lab Sample ID:	870202
Analytical Method:	EPA 3060A/7196A	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71974	Analysis Date/Time	11/23/2010 14:30
Analytical Prep Batch #:	35540	Prep. Date/Time:	11/23/2010 08:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
18540-29-9	Hexavalent Chromium	2.0	U	2.0	2.1	6.7	6.7

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Sample Description

DLASS-012-0001-SO

INORGANIC ANALYSIS DATA SHEET

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.6	Lab Sample ID:	870213
Analytical Method:	EPA 3060A/7196A	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72342	Analysis Date/Time	12/08/2010 16:00
Analytical Prep Batch #:	35712	Prep. Date/Time:	12/08/2010 12:00

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
18540-29-9	Hexavalent Chromium	1.9	U	1.9	2.0	6.5	6.5

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Sample Description

DLASS-012-0001-SO

INORGANIC ANALYSIS DATA SHEET

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.6	Lab Sample ID:	870213
Analytical Method:	EPA 8000C	Date Received:	11/11/2010
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72192	Analysis Date/Time	12/02/2010 17:00
Analytical Prep Batch #:		Prep. Date/Time:	

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	98.6					

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Sample Description

DLASS-013-0001-SO

INORGANIC ANALYSIS DATA SHEET

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.1	Lab Sample ID:	870216
Analytical Method:	EPA 3060A/7196A	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72342	Analysis Date/Time	12/08/2010 16:00
Analytical Prep Batch #:	35712	Prep. Date/Time:	12/08/2010 12:00

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
18540-29-9	Hexavalent Chromium	1.9	U	1.9	2.0	6.5	6.5

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-013-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.1	Lab Sample ID:	870216
Analytical Method:	EPA 8000C	Date Received:	11/11/2010
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72192	Analysis Date/Time	12/02/2010 17:00
Analytical Prep Batch #:		Prep. Date/Time:	

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	98.1					

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-014-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	96.9	Lab Sample ID:	870201
Analytical Method:	EPA 8000C	Date Received:	11/11/2010
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71954	Analysis Date/Time	11/22/2010 12:30
Analytical Prep Batch #:		Prep. Date/Time:	

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	96.9					

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-014-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	96.9	Lab Sample ID:	870201
Analytical Method:	EPA 3060A/7196A	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71974	Analysis Date/Time	11/23/2010 14:30
Analytical Prep Batch #:	35540	Prep. Date/Time:	11/23/2010 08:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers		DL	LOD	LOQ	RL
18540-29-9	Hexavalent Chromium	2.0	U	M	2.0	2.1	6.6	6.6

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-014-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	96.9	Lab Sample ID:	870201
Analytical Method:	EPA 9056M	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72420	Analysis Date/Time	12/11/2010 21:41
Analytical Prep Batch #:	35693	Prep. Date/Time:	12/08/2010 08:00

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
9004-70-0	Nitrocellulose	7.0	U	7.0	N/A	N/A	23

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-014-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	96.7	Lab Sample ID:	870203
Analytical Method:	EPA 8000C	Date Received:	11/11/2010
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71954	Analysis Date/Time	11/22/2010 12:30
Analytical Prep Batch #:		Prep. Date/Time:	

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	96.7					

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-014-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	96.7	Lab Sample ID:	870203
Analytical Method:	EPA 3060A/7196A	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71974	Analysis Date/Time	11/23/2010 14:30
Analytical Prep Batch #:	35540	Prep. Date/Time:	11/23/2010 08:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
18540-29-9	Hexavalent Chromium	2.0	U	2.0	2.1	6.6	6.6

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-014-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	96.7	Lab Sample ID:	870203
Analytical Method:	EPA 9056M	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72420	Analysis Date/Time	12/11/2010 21:57
Analytical Prep Batch #:	35693	Prep. Date/Time:	12/08/2010 08:00

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
9004-70-0	Nitrocellulose	7.0	U	7.0	N/A	N/A	23

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-016-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.2	Lab Sample ID:	870192
Analytical Method:	EPA 3060A/7196A	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72278	Analysis Date/Time	12/07/2010 13:50
Analytical Prep Batch #:	35690	Prep. Date/Time:	12/07/2010 09:00

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
18540-29-9	Hexavalent Chromium	1.9	U	1.9	2.0	6.5	6.5

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-016-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.2	Lab Sample ID:	870192
Analytical Method:	EPA 8000C	Date Received:	11/11/2010
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72192	Analysis Date/Time	12/02/2010 17:00
Analytical Prep Batch #:		Prep. Date/Time:	

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	98.2					

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-017-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.3	Lab Sample ID:	870193
Analytical Method:	EPA 3060A/7196A	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72278	Analysis Date/Time	12/07/2010 13:50
Analytical Prep Batch #:	35690	Prep. Date/Time:	12/07/2010 09:00

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
18540-29-9	Hexavalent Chromium	1.9	U	1.9	2.0	6.5	6.5

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-017-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.3	Lab Sample ID:	870193
Analytical Method:	EPA 8000C	Date Received:	11/11/2010
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72192	Analysis Date/Time	12/02/2010 17:00
Analytical Prep Batch #:		Prep. Date/Time:	

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	98.3					

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-018-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	97.5	Lab Sample ID:	870190
Analytical Method:	EPA 3060A/7196A	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72278	Analysis Date/Time	12/07/2010 13:50
Analytical Prep Batch #:	35690	Prep. Date/Time:	12/07/2010 09:00

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
18540-29-9	Hexavalent Chromium	1.9	U	1.9	2.1	6.6	6.6

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-018-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	97.5	Lab Sample ID:	870190
Analytical Method:	EPA 8000C	Date Received:	11/11/2010
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72192	Analysis Date/Time	12/02/2010 17:00
Analytical Prep Batch #:		Prep. Date/Time:	

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	97.5					

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-019-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	97.1	Lab Sample ID:	869553
Analytical Method:	EPA 3060A/7196A	Date Received:	11/10/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72278	Analysis Date/Time	12/07/2010 13:50
Analytical Prep Batch #:	35690	Prep. Date/Time:	12/07/2010 09:00

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
18540-29-9	Hexavalent Chromium	2.0	U	2.0	2.1	6.6	6.6

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-019-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	97.1	Lab Sample ID:	869553
Analytical Method:	EPA 8000C	Date Received:	11/10/2010
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72193	Analysis Date/Time	12/02/2010 17:00
Analytical Prep Batch #:		Prep. Date/Time:	

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	97.1					

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-020-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.6	Lab Sample ID:	870210
Analytical Method:	EPA 3060A/7196A	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72342	Analysis Date/Time	12/08/2010 16:00
Analytical Prep Batch #:	35712	Prep. Date/Time:	12/08/2010 12:00

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
18540-29-9	Hexavalent Chromium	1.9	U	1.9	2.0	6.5	6.5

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-020-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.6	Lab Sample ID:	870210
Analytical Method:	EPA 8000C	Date Received:	11/11/2010
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72192	Analysis Date/Time	12/02/2010 17:00
Analytical Prep Batch #:		Prep. Date/Time:	

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	98.6					

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-021-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	97.9	Lab Sample ID:	870197
Analytical Method:	EPA 3060A/7196A	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72342	Analysis Date/Time	12/08/2010 16:00
Analytical Prep Batch #:	35712	Prep. Date/Time:	12/08/2010 12:00

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
18540-29-9	Hexavalent Chromium	1.9	U	1.9	2.0	6.5	6.5

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-021-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	97.9	Lab Sample ID:	870197
Analytical Method:	EPA 8000C	Date Received:	11/11/2010
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72192	Analysis Date/Time	12/02/2010 17:00
Analytical Prep Batch #:		Prep. Date/Time:	

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	97.9					

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-022-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.2	Lab Sample ID:	870194
Analytical Method:	EPA 3060A/7196A	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72342	Analysis Date/Time	12/08/2010 16:00
Analytical Prep Batch #:	35712	Prep. Date/Time:	12/08/2010 12:00

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers		DL	LOD	LOQ	RL
18540-29-9	Hexavalent Chromium	1.9	U	M	1.9	2.0	6.5	6.5

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-022-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.2	Lab Sample ID:	870194
Analytical Method:	EPA 8000C	Date Received:	11/11/2010
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72192	Analysis Date/Time	12/02/2010 17:00
Analytical Prep Batch #:		Prep. Date/Time:	

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	98.2					

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-022-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.2	Lab Sample ID:	870194
Analytical Method:	EPA 9056M	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72420	Analysis Date/Time	12/11/2010 21:10
Analytical Prep Batch #:	35693	Prep. Date/Time:	12/08/2010 08:00

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
9004-70-0	Nitrocellulose	7.0	U	7.0	N/A	N/A	23

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Sample Description

DLASS-022-0003-SO

INORGANIC ANALYSIS DATA SHEET

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.1	Lab Sample ID:	870195
Analytical Method:	EPA 3060A/7196A	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72342	Analysis Date/Time	12/08/2010 16:00
Analytical Prep Batch #:	35712	Prep. Date/Time:	12/08/2010 12:00

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
18540-29-9	Hexavalent Chromium	1.9	U	1.9	2.0	6.5	6.5

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-022-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.1	Lab Sample ID:	870195
Analytical Method:	EPA 8000C	Date Received:	11/11/2010
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72192	Analysis Date/Time	12/02/2010 17:00
Analytical Prep Batch #:		Prep. Date/Time:	

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	98.1					

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-022-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.1	Lab Sample ID:	870195
Analytical Method:	EPA 9056M	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72420	Analysis Date/Time	12/11/2010 21:26
Analytical Prep Batch #:	35693	Prep. Date/Time:	12/08/2010 08:00

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
9004-70-0	Nitrocellulose	7.0	U	7.0	N/A	N/A	23

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-024-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	97.8	Lab Sample ID:	869555
Analytical Method:	EPA 3060A/7196A	Date Received:	11/10/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72278	Analysis Date/Time	12/07/2010 13:50
Analytical Prep Batch #:	35690	Prep. Date/Time:	12/07/2010 09:00

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
18540-29-9	Hexavalent Chromium	1.9	U	1.9	2.0	6.5	6.5

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-024-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	97.8	Lab Sample ID:	869555
Analytical Method:	EPA 8000C	Date Received:	11/10/2010
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72193	Analysis Date/Time	12/02/2010 17:00
Analytical Prep Batch #:		Prep. Date/Time:	

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	97.8					

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-025-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.2	Lab Sample ID:	870214
Analytical Method:	EPA 3060A/7196A	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72342	Analysis Date/Time	12/08/2010 16:00
Analytical Prep Batch #:	35712	Prep. Date/Time:	12/08/2010 12:00

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
18540-29-9	Hexavalent Chromium	1.9	U	1.9	2.0	6.5	6.5

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-025-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.2	Lab Sample ID:	870214
Analytical Method:	EPA 8000C	Date Received:	11/11/2010
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72192	Analysis Date/Time	12/02/2010 17:00
Analytical Prep Batch #:		Prep. Date/Time:	

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	98.2					

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-026-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	96.8	Lab Sample ID:	870207
Analytical Method:	EPA 8000C	Date Received:	11/11/2010
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71954	Analysis Date/Time	11/22/2010 12:30
Analytical Prep Batch #:		Prep. Date/Time:	

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	96.8					

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-026-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	96.8	Lab Sample ID:	870207
Analytical Method:	EPA 3060A/7196A	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71974	Analysis Date/Time	11/23/2010 14:30
Analytical Prep Batch #:	35540	Prep. Date/Time:	11/23/2010 08:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
18540-29-9	Hexavalent Chromium	2.0	U	2.0	2.1	6.6	6.6

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-027-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	97.3	Lab Sample ID:	870188
Analytical Method:	EPA 3060A/7196A	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72278	Analysis Date/Time	12/07/2010 13:50
Analytical Prep Batch #:	35690	Prep. Date/Time:	12/07/2010 09:00

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
18540-29-9	Hexavalent Chromium	2.0	U	2.0	2.1	6.6	6.6

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-027-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	97.3	Lab Sample ID:	870188
Analytical Method:	EPA 8000C	Date Received:	11/11/2010
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72192	Analysis Date/Time	12/02/2010 17:00
Analytical Prep Batch #:		Prep. Date/Time:	

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	97.3					

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-028-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.5	Lab Sample ID:	870211
Analytical Method:	EPA 3060A/7196A	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72342	Analysis Date/Time	12/08/2010 16:00
Analytical Prep Batch #:	35712	Prep. Date/Time:	12/08/2010 12:00

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
18540-29-9	Hexavalent Chromium	1.9	U	1.9	2.0	6.5	6.5

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-028-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.5	Lab Sample ID:	870211
Analytical Method:	EPA 8000C	Date Received:	11/11/2010
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72192	Analysis Date/Time	12/02/2010 17:00
Analytical Prep Batch #:		Prep. Date/Time:	

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	98.5					

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-029-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.5	Lab Sample ID:	870208
Analytical Method:	EPA 3060A/7196A	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72342	Analysis Date/Time	12/08/2010 16:00
Analytical Prep Batch #:	35712	Prep. Date/Time:	12/08/2010 12:00

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
18540-29-9	Hexavalent Chromium	1.9	U	1.9	2.0	6.5	6.5

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-029-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	98.5	Lab Sample ID:	870208
Analytical Method:	EPA 8000C	Date Received:	11/11/2010
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72192	Analysis Date/Time	12/02/2010 17:00
Analytical Prep Batch #:		Prep. Date/Time:	

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	98.5					

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-030-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	95.8	Lab Sample ID:	870204
Analytical Method:	EPA 8000C	Date Received:	11/11/2010
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71954	Analysis Date/Time	11/22/2010 12:30
Analytical Prep Batch #:		Prep. Date/Time:	

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	95.8					

CT LABORATORIES
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1

Sample Description

DLASS-030-0001-SO

INORGANIC ANALYSIS DATA SHEET

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82399
% Solids:	95.8	Lab Sample ID:	870204
Analytical Method:	EPA 3060A/7196A	Date Received:	11/11/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71974	Analysis Date/Time	11/23/2010 14:30
Analytical Prep Batch #:	35540	Prep. Date/Time:	11/23/2010 08:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
18540-29-9	Hexavalent Chromium	2.0	U	2.0	2.1	6.7	6.7

CT LABORATORIES
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Sample No.

ICV

2A-1

INITIAL CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71974 Lab Sample ID: 875426

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Hexavalent Chromium	11/23/10	14:30	500.0	524.0	105	90	110	SP

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

ICV

2A-1

INITIAL CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72278 Lab Sample ID: 879061

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Hexavalent Chromium	12/7/10 13:50	500.0	486.0	97	90	110	SP

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

ICV

2A-1

INITIAL CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72342 Lab Sample ID: 879720

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Hexavalent Chromium	12/8/10 16:00	500.0	455.0	91	90	110	SP

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

ICV

2A-1

INITIAL CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72278 Lab Sample ID: 883108

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Hexavalent Chromium	12/13/10 13:00	500.0	515.0	103	90	110	SP

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72420 Lab Sample ID: 880434

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Nitrocellulose	12/11/10	19:29	7.000	7.039	101	90	110	IC

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72420 Lab Sample ID: 880435

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Nitrocellulose	12/11/10	22:45	7.000	7.063	101	90	110	IC

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72420 Lab Sample ID: 880437

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Nitrocellulose	12/12/10	01:54	7.000	7.080	101	90	110	IC

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71974 Lab Sample ID: 875421

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Hexavalent Chromium	11/23/10	14:30	500.0	530.0	106	90	110	SP

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71974 Lab Sample ID: 875422

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Hexavalent Chromium	11/23/10	14:30	500.0	530.0	106	90	110	SP

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71974 Lab Sample ID: 875423

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Hexavalent Chromium	11/23/10	14:30	500.0	530.0	106	90	110	SP

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71974 Lab Sample ID: 875424

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Hexavalent Chromium	11/23/10	14:30	500.0	513.0	103	90	110	SP

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71974 Lab Sample ID: 875426

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Hexavalent Chromium	11/23/10	14:30	500.0	524.0	105	90	110	SP

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72278 Lab Sample ID: 879058

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Hexavalent Chromium	12/7/10	13:50	500.0	507.0	101	90	110	SP

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72278 Lab Sample ID: 879059

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Hexavalent Chromium	12/7/10	13:50	500.0	500.0	100	90	110	SP

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72278 Lab Sample ID: 879060

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Hexavalent Chromium	12/7/10 13:50	500.0	505.0	101	90	110	SP

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72278 Lab Sample ID: 879061

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Hexavalent Chromium	12/7/10	13:50	500.0	486.0	97	90	110	SP

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72342 Lab Sample ID: 879720

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Hexavalent Chromium	12/8/10	16:00	500.0	455.0	91	90	110	SP

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72342 Lab Sample ID: 879722

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Hexavalent Chromium	12/8/10	16:00	500.0	512.0	102	90	110	SP

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72342 Lab Sample ID: 879723

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Hexavalent Chromium	12/8/10 16:00	500.0	508.0	102	90	110	SP

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72342 Lab Sample ID: 879725

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Hexavalent Chromium	12/8/10 16:00	500.0	504.0	101	90	110	SP

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72278 Lab Sample ID: 880649

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Hexavalent Chromium	12/13/10	13:00	500.0	506.0	101	90	110	SP

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72278 Lab Sample ID: 880650

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Hexavalent Chromium	12/13/10	13:00	500.0	531.0	106	90	110	SP

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72278 Lab Sample ID: 883108

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Hexavalent Chromium	12/13/10	13:00	500.0	515.0	103	90	110	SP

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No

ICB

3-1

INITIAL CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71974 Lab Sample ID: 875425

Analytical Prep Batch #: Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Hexavalent Chromium	11/23/2010 14:30	19.00	U	50	50	SP

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
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Sample No

ICB

3-1

INITIAL CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72278 Lab Sample ID: 879062

Analytical Prep Batch #: Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Hexavalent Chromium	12/07/2010 13:50	26.00	U	50	50	SP

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

3-1

ICB

INITIAL CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72342 Lab Sample ID: 879721

Analytical Prep Batch #: Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Hexavalent Chromium	12/08/2010 16:00	1.000	U	50	50	SP

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
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Sample No

ICB

3-1

INITIAL CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72278 Lab Sample ID: 883109

Analytical Prep Batch #: Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Hexavalent Chromium	12/13/2010 13:00	15.00	U	50	50	SP

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71974 Lab Sample ID: 875418

Analytical Prep Batch #: Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Hexavalent Chromium	11/23/2010 14:30	14.00	U	50	50	SP

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71974 Lab Sample ID: 875419

Analytical Prep Batch #: Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Hexavalent Chromium	11/23/2010 14:30	15.00	U	50	50	SP

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71974 Lab Sample ID: 875420

Analytical Prep Batch #: Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Hexavalent Chromium	11/23/2010 14:30	14.00	U	50	50	SP

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72278 Lab Sample ID: 879056

Analytical Prep Batch #: Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Hexavalent Chromium	12/07/2010 13:50	14.00	U	50	50	SP

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
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Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72278 Lab Sample ID: 879057

Analytical Prep Batch #: Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Hexavalent Chromium	12/07/2010 13:50	14.00	U	50	50	SP

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72342 Lab Sample ID: 879724

Analytical Prep Batch #: Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Hexavalent Chromium	12/08/2010 16:00	0	U	50	50	SP

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72342 Lab Sample ID: 879726

Analytical Prep Batch #: Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Hexavalent Chromium	12/08/2010 16:00	-10.00	U	50	50	SP

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
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Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72278 Lab Sample ID: 880648

Analytical Prep Batch #: Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Hexavalent Chromium	12/13/2010 13:00	21.00	U	50	50	SP

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72420 Lab Sample ID: 880436

Analytical Prep Batch #: Preparation Date/Time:

Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Nitrocellulose	12/11/2010 23:00	0			0.12	IC

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
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Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72420 Lab Sample ID: 880438

Analytical Prep Batch #: Preparation Date/Time:

Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Nitrocellulose	12/12/2010 02:10	0			0.12	IC

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
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Sample No

MB

3-3

METHOD BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 71974 Lab Sample ID: 874621

Analytical Prep Batch # 35540 Preparation Date/Time: 11/23/2010 08:30

Concentration Units: mg/kg

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Hexavalent Chromium	11/23/2010 14:30	1.08	U	1.9	3.2	SP

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

MB

3-3

METHOD BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72278 Lab Sample ID: 878292

Analytical Prep Batch # 35690 Preparation Date/Time: 12/07/2010 09:00

Concentration Units: mg/kg

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Hexavalent Chromium	12/07/2010 13:50	0.880	U	1.9	3.2	SP

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

MB

3-3

METHOD BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72342 Lab Sample ID: 879010

Analytical Prep Batch # 35712 Preparation Date/Time: 12/08/2010 12:00

Concentration Units: mg/kg

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Hexavalent Chromium	12/08/2010 16:00	0.0400	U	1.9	3.2	SP

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

MB

3-3

METHOD BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72278 Lab Sample ID: 880653

Analytical Prep Batch # 35690 Preparation Date/Time: 12/07/2010 09:00

Concentration Units: mg/kg

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Hexavalent Chromium	12/13/2010 13:00	0.560	U	1.9	3.2	SP

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

MB

3-3

METHOD BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82399

Analytical Run #: 72420 Lab Sample ID: 878497

Analytical Prep Batch # 35693 Preparation Date/Time: 12/08/2010 08:00

Concentration Units: mg/kg

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Nitrocellulose	12/11/2010 20:07	0			7	IC

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
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5A

SPIKE SAMPLE RECOVERY

Sample Description

DLASS-014-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82399
% Solids for Sample:	96.9	Concentration Units:	mg/kg

Analytical Run #: 71974 Sample No 874624 Parent Sample No.: 870201

Analytical Prep Batch # 35540 Analytical Preparation Date/Time: 11/23/2010 08:30

Analysis Type *Initial Analysis* Analysis Date: ----- 11/23/2010 Analysis Time: -------- 14:30

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Hexavalent Chromium	75-125	33.2		0	U	413	8		SP	*FAIL*

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5A

SPIKE SAMPLE RECOVERY

Sample Description

DLASS-014-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82399
% Solids for Sample:	96.9	Concentration Units:	mg/kg

Analytical Run #: 71974 Sample No 875415 Parent Sample No.: 870201

Analytical Prep Batch # 35540 Analytical Preparation Date/Time: 11/23/2010 08:30

Analysis Type *Initial Analysis* Analysis Date: ----- 11/23/2010 Analysis Time: -------- 14:30

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Hexavalent Chromium	75-125	0	U	0	U	41.3	0		SP	*FAIL*

BDL = analyte concentration was below detection limit

CT LABORATORIES
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5A

SPIKE SAMPLE RECOVERY

Sample Description

DLASS-002-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82399
% Solids for Sample:	98.1	Concentration Units:	mg/kg

Analytical Run #: 72278 Sample No 878296 Parent Sample No.: 870189

Analytical Prep Batch # 35690 Analytical Preparation Date/Time: 12/07/2010 09:00

Analysis Type *Initial Analysis* Analysis Date: ----- 12/07/2010 Analysis Time: -------- 13:50

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Hexavalent Chromium	75-125	3.02	J	0	U	40.8	7		SP	*FAIL*

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5A

SPIKE SAMPLE RECOVERY

Sample Description

DLASS-002-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82399
% Solids for Sample:	98.1	Concentration Units:	mg/kg

Analytical Run #: 72278 Sample No 878297 Parent Sample No.: 870189

Analytical Prep Batch # 35690 Analytical Preparation Date/Time: 12/07/2010 09:00

Analysis Type *Initial Analysis* Analysis Date: ----- 12/07/2010 Analysis Time: -------- 13:50

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Hexavalent Chromium	75-125	2.00	J	0	U	40.8	5		SP	*FAIL*

BDL = analyte concentration was below detection limit

CT LABORATORIES
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5A

SPIKE SAMPLE RECOVERY

Sample Description

DLASS-022-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82399
% Solids for Sample:	98.2	Concentration Units:	mg/kg

Analytical Run #: 72342 Sample No 879013 Parent Sample No.: 870194

Analytical Prep Batch # 35712 Analytical Preparation Date/Time: 12/08/2010 12:00

Analysis Type *Initial Analysis* Analysis Date: ----- 12/08/2010 Analysis Time: -------- 16:00

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Hexavalent Chromium	75-125	0	U	0	U	40.7	0		SP	*FAIL*

BDL = analyte concentration was below detection limit

CT LABORATORIES
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5A

SPIKE SAMPLE RECOVERY

Sample Description

DLASS-022-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82399
% Solids for Sample:	98.2	Concentration Units:	mg/kg
Analytical Run #:	72342	Sample No	879014
Parent Sample No.:	870194		
Analytical Prep Batch #	35712	Analytical Preparation Date/Time:	12/08/2010 12:00

Analysis Type	*Initial Analysis*	Analysis Date: -----	12/08/2010	Analysis Time: --------	16:00

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Hexavalent Chromium	75-125	24.6		0	U	407	6		SP	*FAIL*

BDL = analyte concentration was below detection limit

CT LABORATORIES
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5A

SPIKE SAMPLE RECOVERY

Sample Description

DLASS-002-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82399
% Solids for Sample:	98.1	Concentration Units:	mg/kg

Analytical Run #: 72420 Sample No 878499 Parent Sample No.: 870189

Analytical Prep Batch # 35693 Analytical Preparation Date/Time: 12/08/2010 08:00

Analysis Type *Initial Analysis* Analysis Date: ----- 12/11/2010 Analysis Time: -------- 20:38

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M
Nitrocellulose	70-130	364		0	U	500	73		IC

BDL = analyte concentration was below detection limit

CT LABORATORIES
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5B

POST DIGESTION SPIKE SAMPLE RECOVERY

Sample Description

DLASS-014-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82399
% Solids for Sample:	96.9	Concentration Units:	mg/kg

Analytical Run #: 71974 Sample No 875417 Parent Sample No.: 870201

Analytical Prep Batch # Analytical Preparation Date/Time:

Analysis Type *Initial Analysis* Analysis Date: ----- 11/23/2010 Analysis Time: -------- 14:30

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Hexavalent Chromium	85-115	99		0.0	U	1000	10		SP	*FAIL*

BDL = analyte concentration was below detection limit

CT LABORATORIES
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5B

POST DIGESTION SPIKE SAMPLE RECOVERY

Sample Description

DLASS-002-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82399
% Solids for Sample:	98.1	Concentration Units:	mg/kg
Analytical Run #:	72278	Sample No	878295
Parent Sample No.:	870189		
Analytical Prep Batch #		Analytical Preparation Date/Time:	

Analysis Type	*Initial Analysis*	Analysis Date: -----	12/07/2010	Analysis Time: --------	13:50

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Hexavalent Chromium	85-115	156		0.0	U	1000	16		SP	*FAIL*

BDL = analyte concentration was below detection limit

CT LABORATORIES
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5B

POST DIGESTION SPIKE SAMPLE RECOVERY

Sample Description

DLASS-022-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82399
% Solids for Sample:	98.2	Concentration Units:	mg/kg

Analytical Run #: 72342 Sample No 881255 Parent Sample No.: 870194

Analytical Prep Batch # Analytical Preparation Date/Time:

Analysis Type *Initial Analysis* Analysis Date: ----- 12/08/2010 Analysis Time: -------- 16:00

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M
Hexavalent Chromium	85-115	869		0	U	1000	87		SP

BDL = analyte concentration was below detection limit

CT LABORATORIES
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5C

SPIKE DUPLICATE SAMPLE RECOVERY

Sample Description

DLASS-002-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82399
% Solids for Sample:	98.1	Concentration Units:	mg/kg

Analytical Run #: 72420 Sample No 878500 Parent Sample No.: 878499

Analytical Prep Batch # 35693 Analytical Preparation Date/Time: 12/08/2010 08:00

Analysis Type *Initial Analysis* Analysis Date: ----- 12/11/2010 Analysis Time: -------- 20:54

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M
Nitrocellulose	70-130	383		0	U	500	77		IC

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

6

DUPLICATES

Sample Description

DLASS-014-0001-SO

Lab Name: CT Laboratories

Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID

SDG No.: 82399

% Solid for Sample: 96.9

Concentration Units: %

Analytical Run #: 71954

Sample #: 874181

Parent Sample #: 870201

Analytical Prep Batch #

Analytical Preparation Date/Time:

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M
Solids, Percent	11/22/2010	12:30	5	96.9		96.8		0		GRA

CT LABORATORIES
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6

DUPLICATES

Sample Description

DLASS-014-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID SDG No.: 82399

% Solid for Sample: 96.9 Concentration Units: mg/kg

Analytical Run #: 71974 Sample #: 874623 Parent Sample #: 870201

Analytical Prep Batch # 35540 Analytical Preparation Date/Time: 11/23/2010 08:30

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M
Hexavalent Chromium	11/23/2010	14:30	30	6.6	U	6.6	U	0		SP

CT LABORATORIES
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6

DUPLICATES

Sample Description

DLASS-002-0001-SO

Lab Name: CT Laboratories

Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID

SDG No.: 82399

% Solid for Sample: 98.1

Concentration Units: %

Analytical Run #: 72192

Sample #: 877494

Parent Sample #: 870189

Analytical Prep Batch #

Analytical Preparation Date/Time:

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M
Solids, Percent	12/02/2010	17:00	5	98.1		98.0		0		GRA

CT LABORATORIES
delivering more than data from your environmental analyses

6

DUPLICATES

Sample Description

DLASS-004-0001-SO

Lab Name: CT Laboratories

Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID

SDG No.: 82399

% Solid for Sample: 97.1

Concentration Units: %

Analytical Run #: 72193

Sample #: 877495

Parent Sample #: 869556

Analytical Prep Batch #

Analytical Preparation Date/Time:

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M
Solids, Percent	12/02/2010	17:00	5	97.1		96.9		0		GRA

CT LABORATORIES
delivering more than data from your environmental analyses

6

DUPLICATES

Sample Description

DLASS-002-0001-SO

Lab Name: CT Laboratories

Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID

SDG No.: 82399

% Solid for Sample: 98.1

Concentration Units: mg/kg

Analytical Run #: 72278

Sample #: 878294

Parent Sample #: 870189

Analytical Prep Batch # 35690

Analytical Preparation Date/Time: 12/07/2010 09:00

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M
Hexavalent Chromium	12/07/2010	13:50	30	6.5	U	6.5	U	0		SP

CT LABORATORIES
delivering more than data from your environmental analyses

6

DUPLICATES

Sample Description

DLASS-022-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID SDG No.: 82399

% Solid for Sample: 98.2 Concentration Units: mg/kg

Analytical Run #: 72342 Sample #: 879012 Parent Sample #: 870194

Analytical Prep Batch # 35712 Analytical Preparation Date/Time: 12/08/2010 12:00

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M
Hexavalent Chromium	12/08/2010	16:00	30	6.5	U	6.5	U	0		SP

CT LABORATORIES
delivering more than data from your environmental analyses

6A

MATRIX SPIKE DUPLICATES

Sample Description

DLASS-002-0001-SO

Lab Name: CT Laboratories | Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID | SDG No.: 82399

% Solid for Sample: 98.1 | Concentration Units: mg/kg

Analytical Run #: 72420 | Sample #: 878500 | Parent Sample #: 878499

Analytical Prep Batch # 8 | Analytical Preparation Date/Time: 12/11/49 1

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Matrix Spik Parent Conc. (S)	C	Matrix Spike Duplicate Conc. (D)	C	RPD	Q	M
Nitrocellulose	12/11/2010	20:54	20	364		383		5		IC

CT LABORATORIES
delivering more than data from your environmental analyses

7-2

Sample No:

LABORATORY CONTROL SAMPLE - SOLID

LCS

Lab Name: CT Laboratories Contract USACE - LOUISVILLE-RAVENNA

LCS Source: SPEX and Ultra SDG No.: 82399

Concentration Units: mg/kg

Analytical Run #: 71974 Sample No.:#: 874622

Analytical Prep Batch #: 35540 Preparation Date/Time: 11/23/2010 08:30

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	C	Spike Amount	%R	Q	M
Hexavalent Chromium	11/23/2010 14:30	83-115	20.7		20.0	104		SP

CT LABORATORIES
delivering more than data from your environmental analyses

7-2

Sample No:

LABORATORY CONTROL SAMPLE - SOLID

LCS

Lab Name: CT Laboratories Contract USACE - LOUISVILLE-RAVENNA

LCS Source: SPEX and Ultra SDG No.: 82399

Concentration Units: mg/kg

Analytical Run #: 72278 Sample No.:#: 878293

Analytical Prep Batch #: 35690 Preparation Date/Time: 12/07/2010 09:00

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	C	Spike Amount	%R	Q	M
Hexavalent Chromium	12/07/2010 13:50	83-115	19.6		20.0	98		SP

CT LABORATORIES
delivering more than data from your environmental analyses

7-2

Sample No:

LABORATORY CONTROL SAMPLE - SOLID

LCS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

LCS Source: SPEX and Ultra SDG No.: 82399

Concentration Units: mg/kg

Analytical Run #: 72342 Sample No.:#: 879011

Analytical Prep Batch #: 35712 Preparation Date/Time: 12/08/2010 12:00

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	C	Spike Amount	%R	Q	M
Hexavalent Chromium	12/08/2010 16:00	83-115	17.7		20.0	88		SP

CT LABORATORIES
delivering more than data from your environmental analyses

7-2

Sample No:

LABORATORY CONTROL SAMPLE - SOLID

LCS

Lab Name: CT Laboratories Contract USACE - LOUISVILLE-RAVENNA

LCS Source: SPEX and Ultra SDG No.: 82399

Concentration Units: mg/kg

Analytical Run #: 72278 Sample No.:#: 880654

Analytical Prep Batch #: 35690 Preparation Date/Time: 12/07/2010 09:00

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	C	Spike Amount	%R	Q	M
Hexavalent Chromium	12/13/2010 13:00	83-115	21.0		20.0	105		SP

CT LABORATORIES
delivering more than data from your environmental analyses

7-2

Sample No:

LABORATORY CONTROL SAMPLE - SOLID

LCS

Lab Name: CT Laboratories Contract USACE - LOUISVILLE-RAVENNA

LCS Source: SPEX and Ultra SDG No.: 82399

Concentration Units: mg/kg

Analytical Run #: 72420 Sample No.:#: 878498

Analytical Prep Batch #: 35693 Preparation Date/Time: 12/08/2010 08:00

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	C	Spike Amount	%R	Q	M
Nitrocellulose	12/11/2010 19:49	70-130	519		500	104		IC

INORGANICS
RAW DATA
DOCUMENTS

{32}{32}{32}{32}{32}{32}{32}{32}{32}{32}{32}{32}{32}ENTERED{32}{32}{32}{32}CALCULATED{13}{10}
STD{32}{32}{32}ABS{32}{32}{32}{32}{32}{32}{32}CONC{32}{32}{32}{32}{32}{32}{32}{32}{32}{32}CONC{32}{32}{32}{32}ERROR{13}{10}
{32}1{32}{32}-0.001{32}{32}{32}{32}0.000{32}{32}{32}{32}{32}{32}10.599{32}{32}{32}10.599{13}{10}
{32}2{32}{32}{32}0.025{32}{32}{32}{32}{32}100.{32}{32}{32}{32}{32}{32}{32}{32}{32}89.{32}{32}{32}{32}{32}-11.{13}{10}
{32}3{32}{32}{32}0.078{32}{32}{32}{32}{32}250.{32}{32}{32}{32}{32}{32}{32}{32}{32}252.{32}{32}{32}{32}{32}{32}{32}2.{13}{10}
{32}4{32}{32}{32}0.159{32}{32}{32}{32}{32}500.{32}{32}{32}{32}{32}{32}{32}{32}{32}497.{32}{32}{32}{32}{32}{32}-3.{13}{10}
{32}5{32}{32}{32}0.327{32}{32}{32}{32}1000.{32}{32}{32}{32}{32}{32}{32}{32}1010.{32}{32}{32}{32}{32}{32}10.{13}{10}
----------{13}{10}
{13}{10}
SLOPE{32}{32}{32}{32}{32}{32}{32}{32}0.0003{13}{10}
INTERCEPT{32}{32}{32}{32}-0.004{13}{10}
CORR{32}COEFF{32}{32}{32}{32}1.000{13}{10}
----------{13}{10}
{13}{10}
ID#{32}{32}{32}1{32}{32}{32}TEST_01{32}{32}540{32}NM{32}{32}{32}524.{32}C{13}{10}
ID#{32}{32}{32}2{32}{32}{32}TEST_01{32}{32}540{32}NM{32}{32}{32}{32}19.{32}C{13}{10}

ICV = 500 ug/L
524.
ICB
19.

71974

CCV
513.
LCSS
518.
MBS
27.
870200
21.
870201
-5.
DUP870201
-21.
INSOLMS870201X5
161.
SOLMS870201
-5.
PDMS870201
99.
870202
38.
870203
19.
870204
-33.
870207 JTG 11-23-10
-36.
CCV
530.
CCB
14.
871184
-23.
871186
-59.
871187
-57.
871188
48.
871189
-32.
871190
-30.
871191
46.

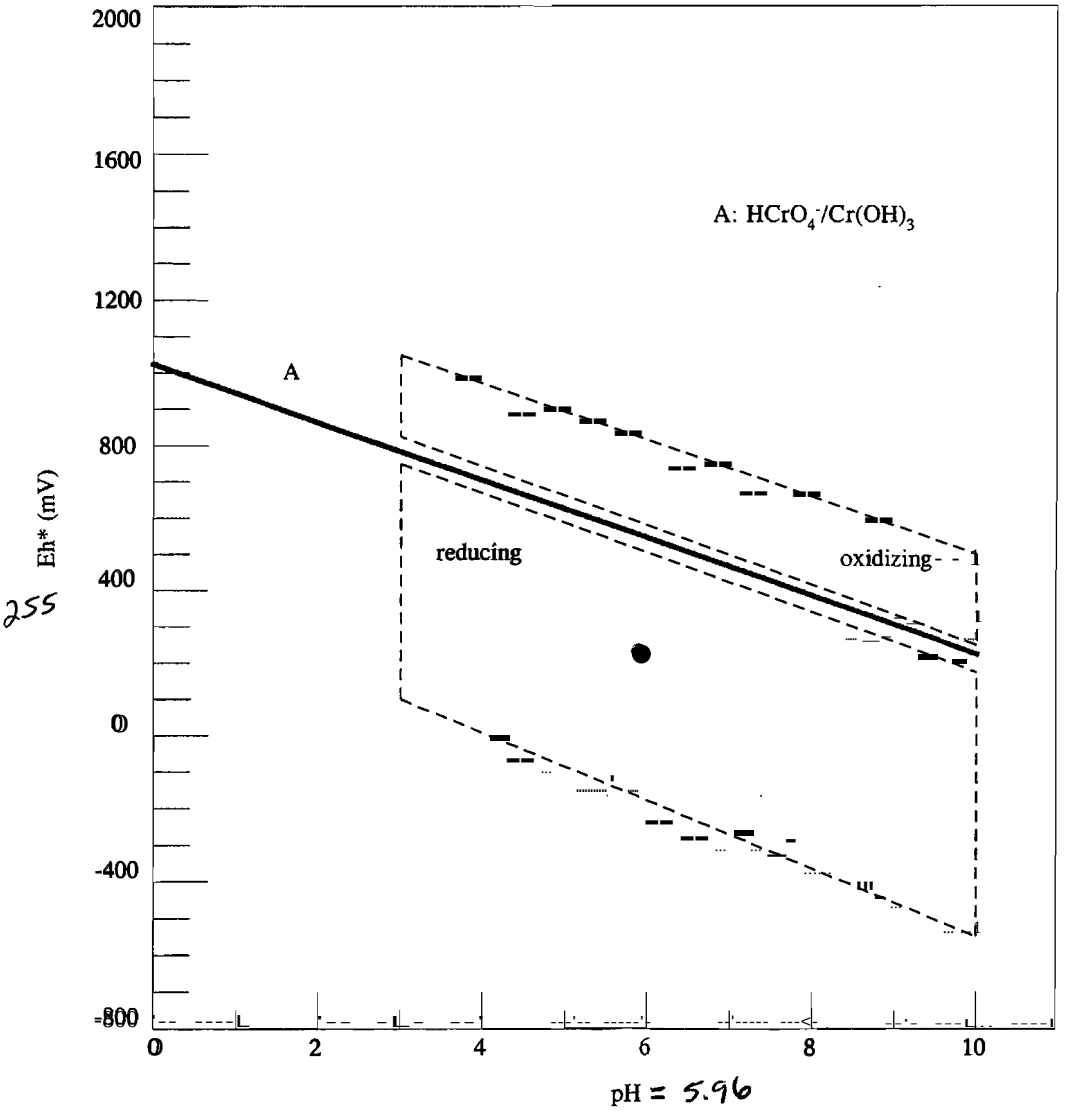
71974

871192
-27.
871193
-26.
871194
-20.
CCV
530.
CCB
15.
871195
-43.
871196
38.
871197
-47.
871198
2.
CCV
530.
CCB
14.

870201

FIGURE 2
Eh/pH PHASE DIAGRAM

The dashed lines define Eh-pH boundaries commonly encountered in soils and sediments.



mV = 56 + 199 = 255

* Note the Eh values plotted on this diagram are corrected for the reference electrode voltage: 244 mY units must be added to the measured value when a separate calomel electrode is used, or 199 mY units must be added if a combination platinum electrode is used.

Hex chrome

72278

LINEAR{32}CURVE{32}FIT{13}{10}
NOT{32}THROUGH{32}0{13}{10}
{13}{10}
{32}{32}{32}{32}{32}{32}{32}{32}{32}{32}{32}{32}{32}ENTERED{32}{32}{32}{32}CALCULATED{13}{10}
STD{32}{32}{32}ABS{32}{32}{32}{32}{32}{32}CONC{32}{32}{32}{32}{32}{32}{32}{32}{32}CONC{32}{32}{32}{32}ERROR{13}{10}
{32}1{32}{32}-0.000{32}{32}{32}{32}0.000{32}{32}{32}{32}{32}{32}13.969{32}{32}{32}13.969{13}{10}
{32}2{32}{32}{32}0.032{32}{32}{32}{32}{32}100.{32}{32}{32}{32}{32}{32}{32}{32}{32}100.{32}{32}{32}{32}{32}{32}{32}0.{13}{10}
{32}3{32}{32}{32}0.084{32}{32}{32}{32}{32}250.{32}{32}{32}{32}{32}{32}{32}{32}{32}241.{32}{32}{32}{32}{32}{32}-9.{13}{10}
{32}4{32}{32}{32}0.175{32}{32}{32}{32}{32}500.{32}{32}{32}{32}{32}{32}{32}{32}{32}485.{32}{32}{32}{32}{32}-15.{13}{10}
{32}5{32}{32}{32}0.373{32}{32}{32}{32}1000.{32}{32}{32}{32}{32}{32}{32}1020.{32}{32}{32}{32}{32}{32}20.{13}{10}
----------{13}{10}
{13}{10}
SLOPE{32}{32}{32}{32}{32}{32}{32}{32}0.0004{13}{10}
INTERCEPT{32}{32}{32}{32}-0.005{13}{10}
CORR{32}COEFF{32}{32}{32}0.9996{13}{10}
----------{13}{10}
{13}{10}

ICV:(500)
486.
ICB:
26.

Hex chrome

72278

CCV
507.
LCSS
489.
MBS
22.
869552
-1.
869553
30.
869554
3.
869555
28.
869556
36.
JTG 12-13-10 870188
23.
870189
19.
NR DUP870189
36.
ISS870~~179~~-189 12-9-10 mnl
3390.
SS870189
24.
CCV
500.
CCB
14.
NR —PDS870189
103.
870190
12.
870191
41.
870192
-8.
870193
25.
CCV
505.
CCB
14.

Hex chrome

72278

{32}{32}{32}{32}{32}{32}{32}{32}{32}{32}{32}{32}ENTERED{32}{32}{32}{32}CALCULATED{13}{10}
STD{32}{32}{32}ABS{32}{32}{32}{32}{32}{32}CONC{32}{32}{32}{32}{32}{32}{32}{32}CONC{32}{32}{32}{32}ERROR{13}{10}
{32}1{32}{32}{32}0.000{32}{32}{32}{32}0.000{32}{32}{32}{32}{32}{32}19.343{32}{32}{32}19.343{13}{10}
{32}2{32}{32}{32}0.025{32}{32}{32}{32}{32}100.{32}{32}{32}{32}{32}{32}{32}{32}{32}91.{32}{32}{32}{32}{32}{32}-9.{13}{10}
{32}3{32}{32}{32}0.077{32}{32}{32}{32}{32}250.{32}{32}{32}{32}{32}{32}{32}{32}237.{32}{32}{32}{32}{32}-13.{13}{10}
{32}4{32}{32}{32}0.167{32}{32}{32}{32}{32}500.{32}{32}{32}{32}{32}{32}{32}{32}497.{32}{32}{32}{32}{32}{32}-3.{13}{10}
{32}5{32}{32}{32}0.347{32}{32}{32}{32}1000.{32}{32}{32}{32}{32}{32}{32}1010.{32}{32}{32}{32}{32}{32}10.{13}{10}
----------{13}{10}
{13}{10}
SLOPE{32}{32}{32}{32}{32}{32}{32}{32}0.0003{13}{10}
INTERCEPT{32}{32}{32}{32}-0.006{13}{10}
CORR{32}COEFF{32}{32}{32}0.9993{13}{10}
----------{13}{10}
{13}{10}

ICV=500
515.
ICB:
15.

12-13-10

Cr+6 Soil Curve

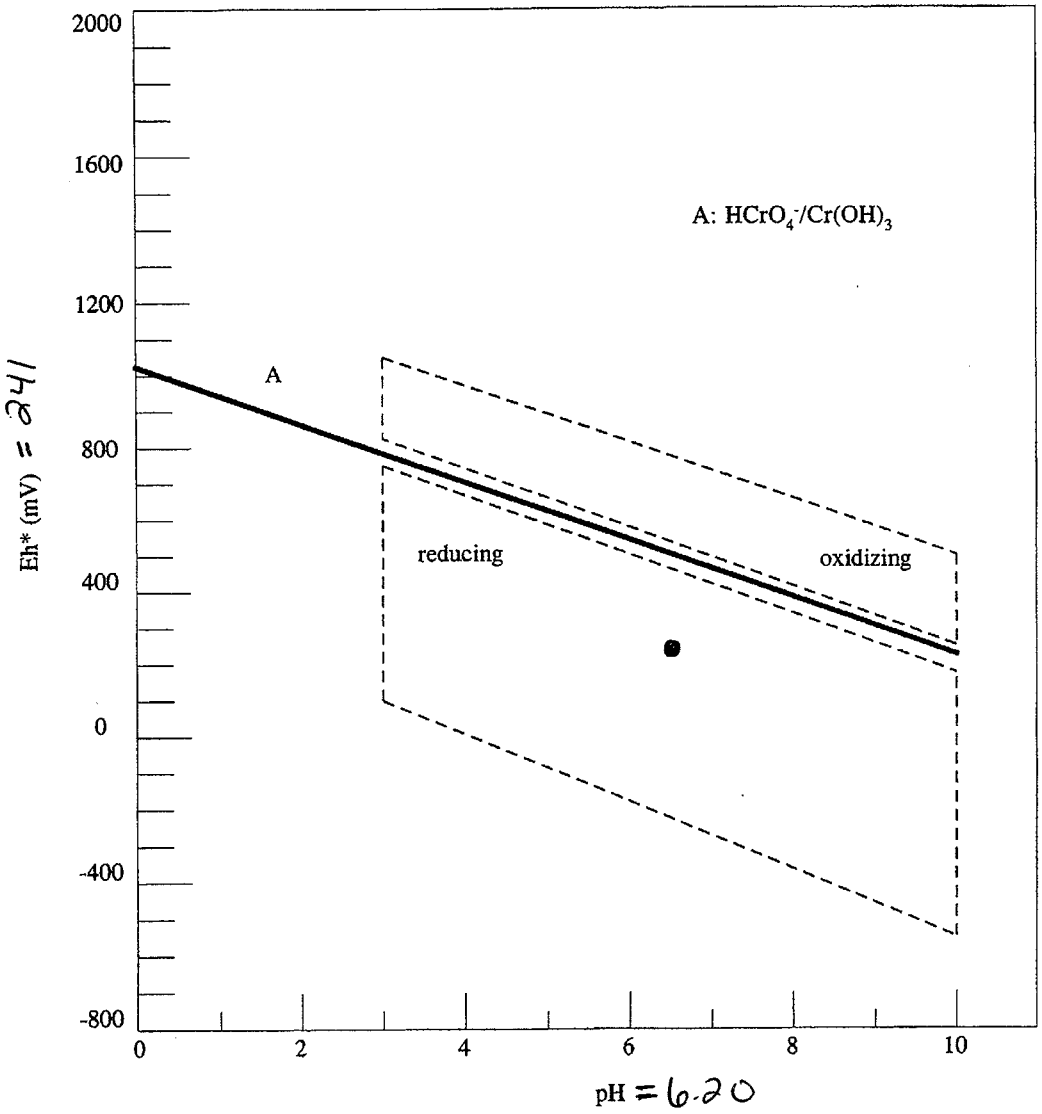
Hex chrome

72278

CCV
506.
LCSS
524.
MBS
14.
870189
-4.
DUP870189
-51.
ISS870189
74.
SS870189
49.
PDS870189
156.
MDLCHK
54.
CCV
531.
CCB
21.

FIGURE 2
Eh/pH PHASE DIAGRAM

The dashed lines define Eh-pH boundaries commonly encountered in soils and sediments.



* Note the Eh values plotted on this diagram are corrected for the reference electrode voltage: 244 mV units must be added to the measured value when a separate calomel electrode is used, or 199 mV units must be added if a combination platinum electrode is used.

Cr+6 Soil run: 72278

```
LINEAR{32}CURVE{32}FIT{13}{10}
THROUGH{32}0{13}{10}
{13}{10}
{32}{32}{32}{32}{32}{32}{32}{32}{32}{32}{32}{32}{32}ENTERED{32}{32}{32}{32}CALCULATED{13}{10}
STD{32}{32}{32}ABS{32}{32}{32}{32}{32}{32}CONC{32}{32}{32}{32}{32}{32}{32}{32}CONC{32}{32}{32}{32}ERROR{13}{10}
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{32}2{32}{32}{32}0.028{32}{32}{32}{32}{32}100.{32}{32}{32}{32}{32}{32}{32}{32}{32}84.{32}{32}{32}{32}{32}-16.{13}{
10}
{32}3{32}{32}{32}0.082{32}{32}{32}{32}{32}250.{32}{32}{32}{32}{32}{32}{32}{32}{32}242.{32}{32}{32}{32}{32}{32}-8.{13}{
10}
{32}4{32}{32}{32}0.167{32}{32}{32}{32}{32}500.{32}{32}{32}{32}{32}{32}{32}{32}{32}496.{32}{32}{32}{32}{32}{32}-4.{13}{
10}
{32}5{32}{32}{32}0.342{32}{32}{32}{32}1000.{32}{32}{32}{32}{32}{32}{32}{32}1010.{32}{32}{32}{32}{32}{32}10.{13}{10}
----------------------------------------{13}{10}
{13}{10}
SLOPE{32}{32}{32}{32}{32}{32}{32}{32}0.0003{13}{10}
INTERCEPT{32}{32}{32}{32}{32}0.000{13}{10}
CORR{32}COEFF{32}{32}{32}0.9997{13}{10}
--------------------{13}{10}
{13}{10}
```

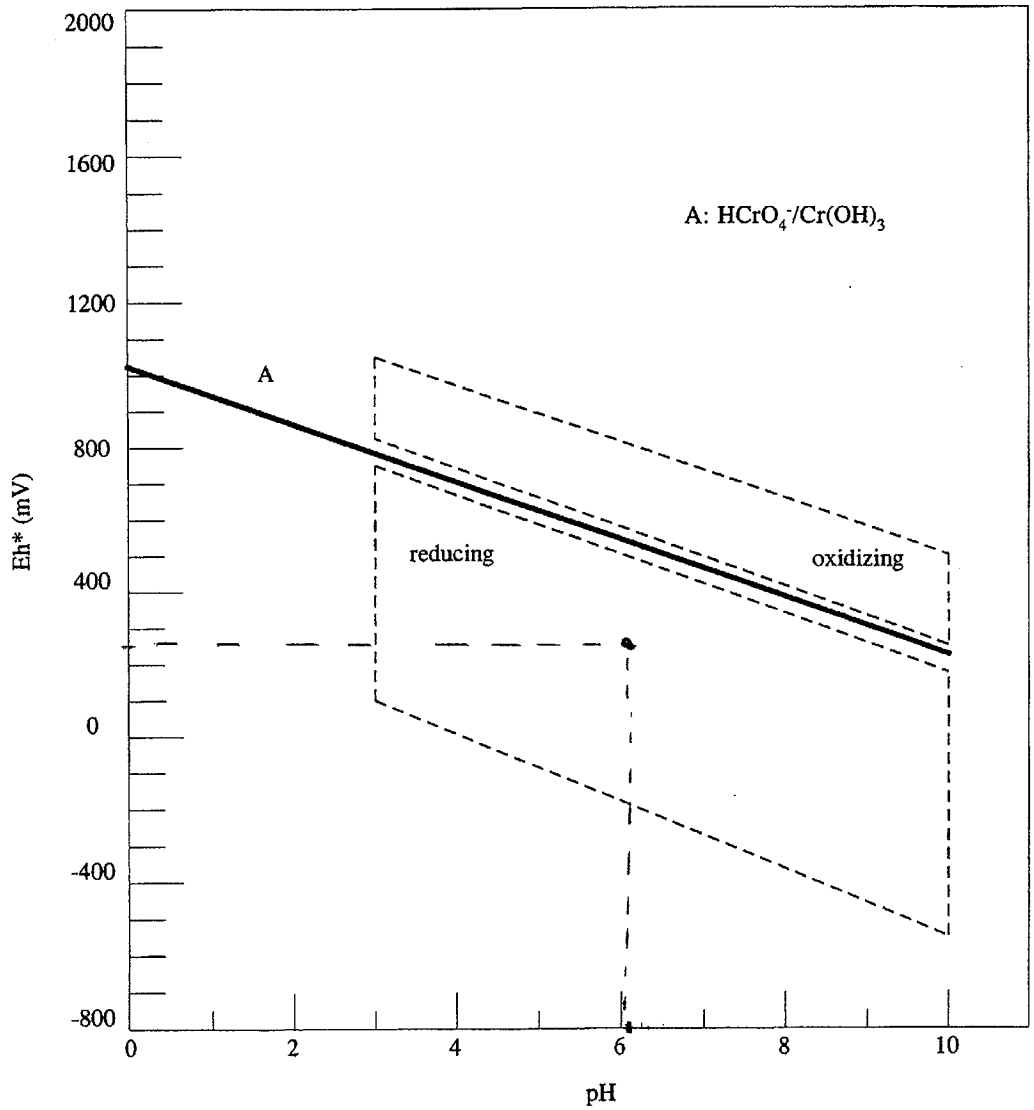
ICV
455.
ICB
1.
CCV
512.
LCSS
442.
MBS
1.
870194
-29.
DUP870194
-16.
SOL MS870194
-25.
INSOL MS870194
603.
PDS 870194
869.
870195
2.
870196
3.
870197
-51.
870208
-31.
870209
20.
CCV
508.
CCB
0.
870210
-53.
870211
-8.
20 CEJ 12/8/10
-107.
870212
33.
870213
-9.
870214

-9.
870215
28.
870216
38.
877664
-39.
877666
42.
CCV
504.
CCB
-10.
MDL 1
247.
MDL 2
256.
MDL 3
209.
MDL 4
256.
MDL 5
269.
MDL 6
219.
MDL 7
244.
MDL 8
267.
CCV
508.
CCB
-13.

87019 4

FIGURE 2
Eh/pH PHASE DIAGRAM

The dashed lines define Eh-pH boundaries commonly encountered in soils and sediments.



* Note the Eh values plotted on this diagram are corrected for the reference electrode voltage: 244 mV units must be added to the measured value when a separate calomel electrode is used, or 199 mV units must be added if a combination platinum electrode is used.

pH = 6.08
eH = 46 + 199 = 245

Calibration Update Report

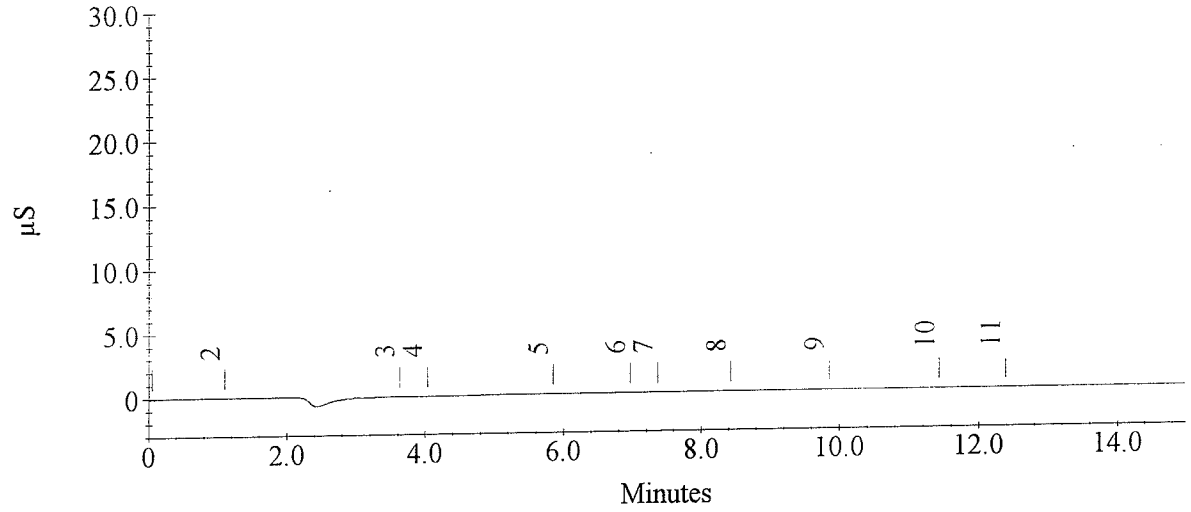
Sample Name : LEVEL 1
Data File Name : C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\W24955\LEVEL 1_011.DXD

Method File Name : C:\INSTRUMENT ARCHIVES\METHODS\SYSTEM 2\W24955.met
Schedule File Name : c:\instrument archives\sequences\system 2\w24955.sch
Date Time Collected : 10/25/2010 19:37:45
Calibration Date : 10/26/2010 09:34:59
System Operator : KMB

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
	Nitrite				
	Bromide				
	Sulfate				

LEVEL 1



Calibration Update Report

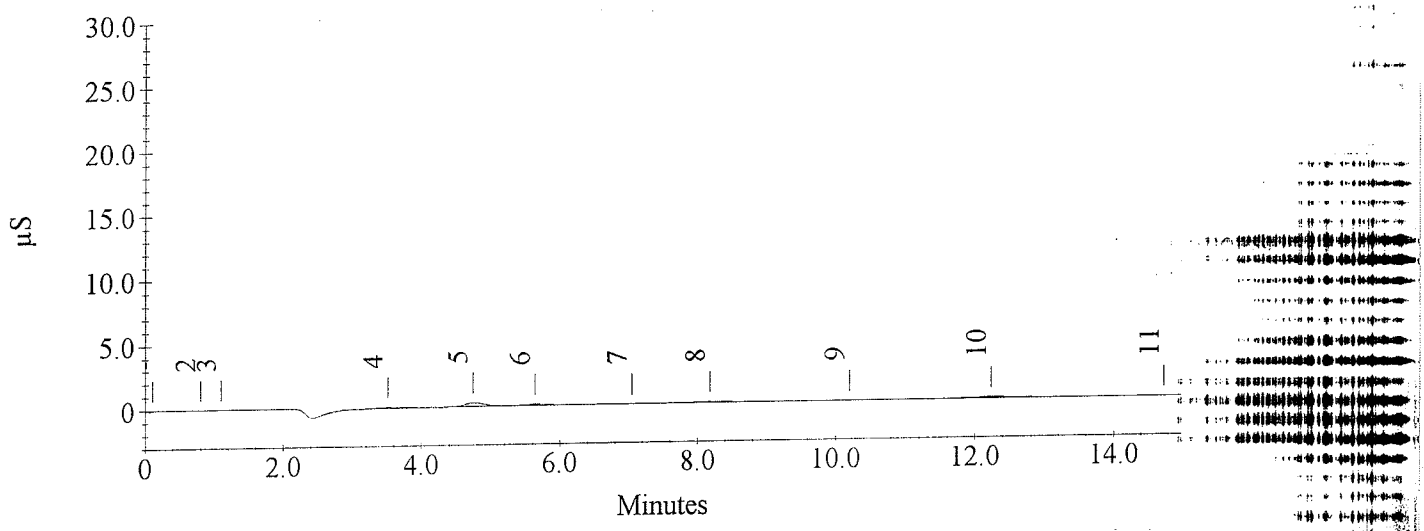
Sample Name : LEVEL 2
Data File Name : C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\W24955\LEVEL 2_012.DXD

Method File Name : C:\INSTRUMENT ARCHIVES\METHODS\SYSTEM 2\W24955.met
Schedule File Name : c:\instrument archives\sequences\system 2\w24955.sch
Date Time Collected : 10/25/2010 19:55:02
Calibration Date : 10/26/2010 09:35:00
System Operator : KMB

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
4	Fluoride	3.52	8742	8742	8742
5	Chloride	4.75	57334	57334	57334
6	Nitrite	5.63	20679	20679	20679
7	Bromide	7.05	4666	4666	4666
8	Nitrate	8.18	27255	27255	27255
9	O.Phos	10.20	1951	1951	1951
10	Sulfate	12.23	42248	42248	42248

LEVEL 2



Calibration Update Report

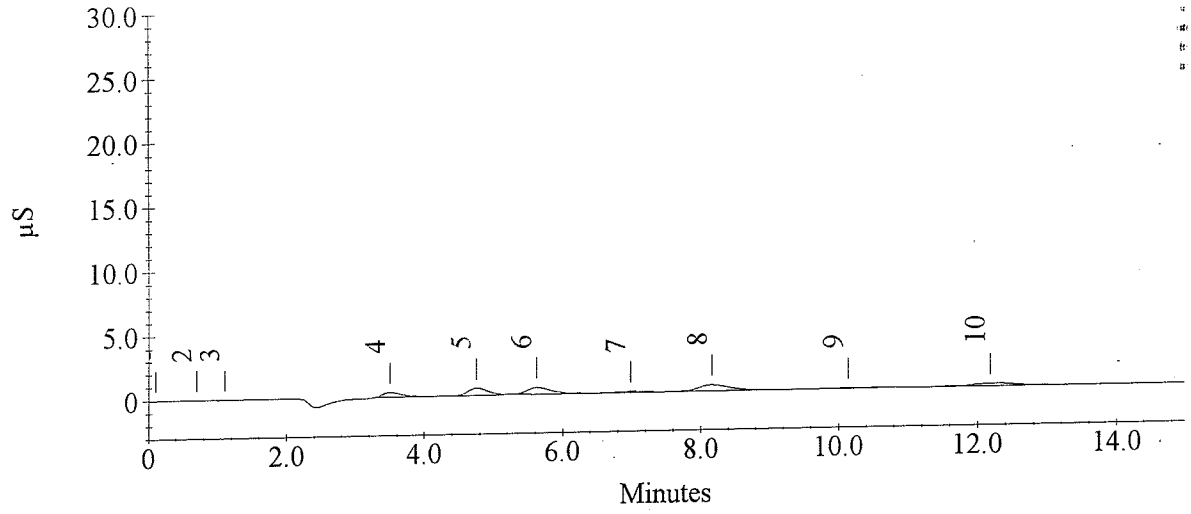
Sample Name : LEVEL 3
Data File Name : C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\W24955\LEVEL 3_013.DXD

Method File Name : C:\INSTRUMENT ARCHIVES\METHODS\SYSTEM 2\W24955.met
Schedule File Name : c:\instrument archives\sequences\system 2\w24955.sch
Date Time Collected : 10/25/2010 20:12:19
Calibration Date : 10/26/2010 09:35:00
System Operator : KMB

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
4	Fluoride	3.50	73162	73162	73162
5	Chloride	4.75	111121	111121	111121
6	Nitrite	5.62	121674	121674	121674
7	Bromide	6.98	17702	17702	17702
8	Nitrate	8.17	148235	148235	148235
9	O.Phos	10.13	15370	15370	15370
10	Sulfate	12.18	88081	88081	88081

LEVEL 3



Calibration Update Report

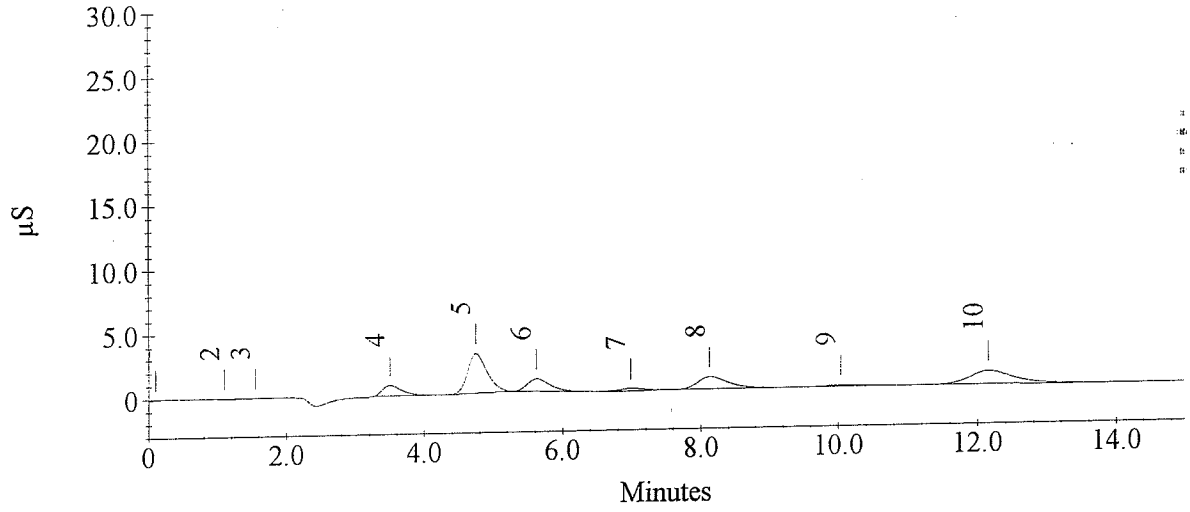
Sample Name : LEVEL 4
Data File Name : C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\W24955\LEVEL 4_014.DXD

Method File Name : C:\INSTRUMENT ARCHIVES\METHODS\SYSTEM 2\W24955.met
Schedule File Name : c:\instrument archives\sequences\system 2\w24955.sch
Date Time Collected : 10/25/2010 20:29:35
Calibration Date : 10/26/2010 09:35:01
System Operator : KMB

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
4	Fluoride	3.50	162768	162768	162768
5	Chloride	4.75	598920	598920	598920
6	Nitrite	5.62	222541	222541	222541
7	Bromide	6.98	41978	41978	41978
8	Nitrate	8.13	307812	307812	307812
9	O.Phos	10.03	58042	58042	58042
10	Sulfate	12.15	465699	465699	465699

LEVEL 4



Calibration Update Report

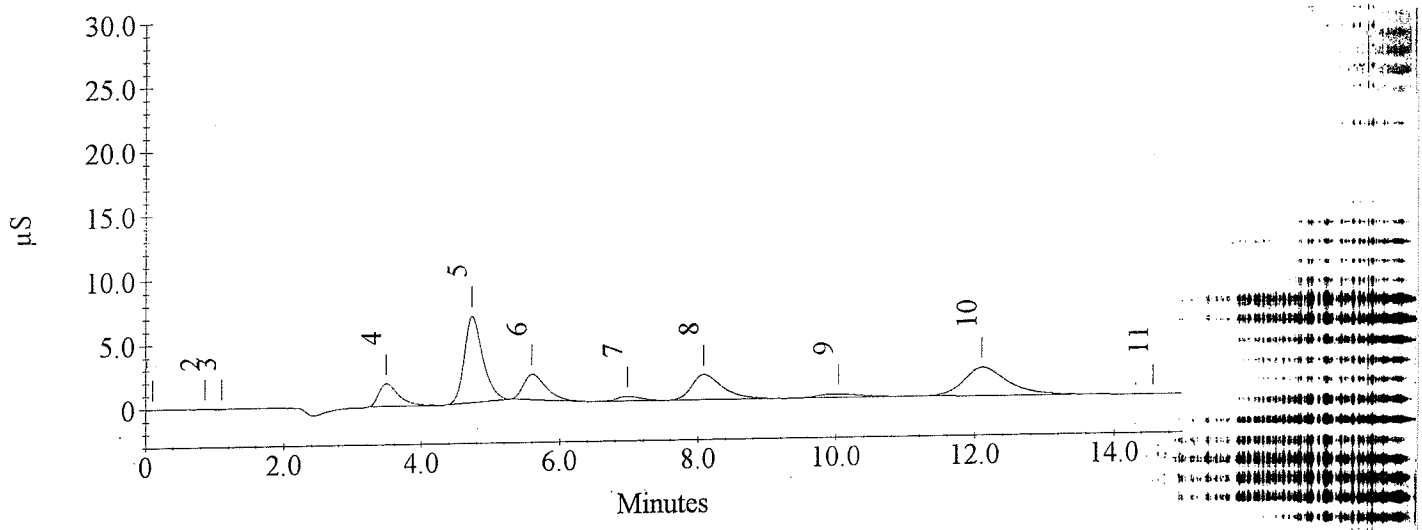
Sample Name : LEVEL 5
Data File Name : C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\W24955\LEVEL 5_015.DXD

Method File Name : C:\INSTRUMENT ARCHIVES\METHODS\SYSTEM 2\W24955.met
Schedule File Name : c:\instrument archives\sequences\system 2\w24955.sch
Date Time Collected : 10/25/2010 20:46:50
Calibration Date : 10/26/2010 09:35:02
System Operator : KMB

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
4	Fluoride	3.48	349770	349770	349770
5	Chloride	4.73	1265941	1265941	1265941
6	Nitrite	5.60	447852	447852	447852
7	Bromide	6.98	86052	86052	86052
8	Nitrate	8.08	618714	618714	618714
9	O.Phos	10.03	128566	128566	128566
10	Sulfate	12.10	983299	983299	983299

LEVEL 5



Calibration Update Report

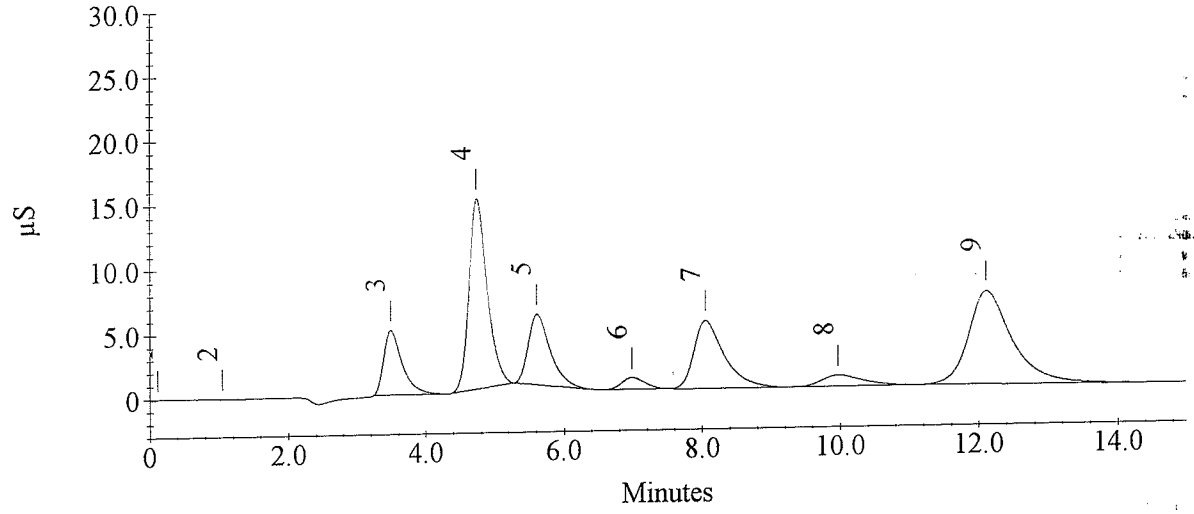
Sample Name : LEVEL 6
Data File Name : C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\W24955\LEVEL 6_016.DXD

Method File Name : C:\INSTRUMENT ARCHIVES\METHODS\SYSTEM 2\W24955.met
Schedule File Name : c:\instrument archives\sequences\system 2\w24955.sch
Date Time Collected : 10/25/2010 21:04:05
Calibration Date : 10/26/2010 09:35:02
System Operator : KMB

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
3	Fluoride	3.48	938799	938799	938799
4	Chloride	4.73	2689285	2689285	2689285
5	Nitrite	5.60	1211449	1211449	1211449
6	Bromide	6.98	218334	218334	218334
7	Nitrate	8.05	1606642	1606642	1606642
8	O.Phos	9.97	362593	362593	362593
9	Sulfate	12.10	3140687	3140687	3140687

LEVEL 6



Calibration Update Report

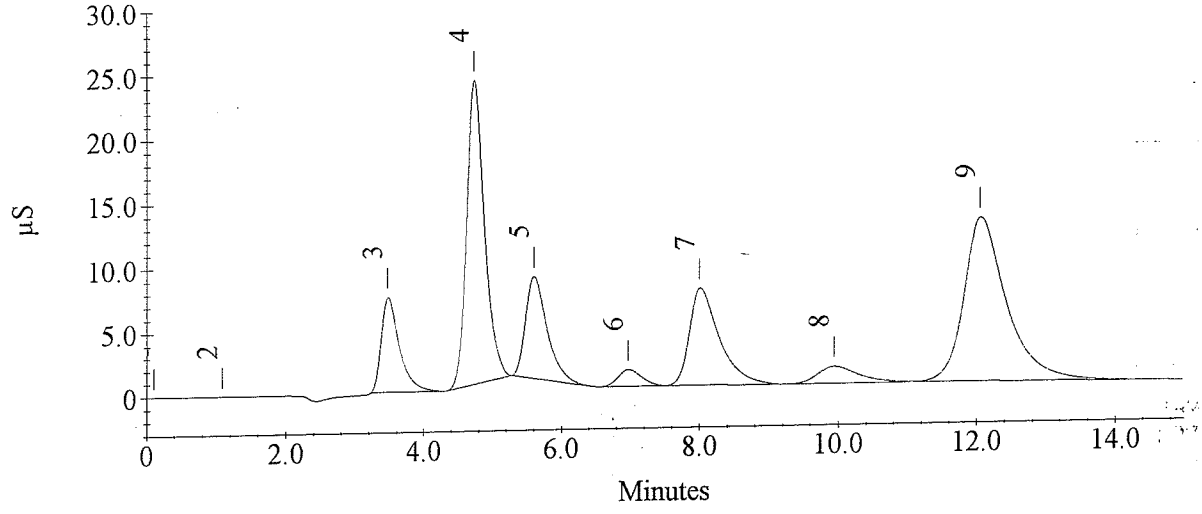
Sample Name : LEVEL 7
Data File Name : C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\W24955\LEVEL 7_017.DXD

Method File Name : C:\INSTRUMENT ARCHIVES\METHODS\SYSTEM 2\W24955.met
Schedule File Name : c:\instrument archives\sequences\system 2\w24955.sch
Date Time Collected : 10/25/2010 21:21:21
Calibration Date : 10/26/2010 09:35:03
System Operator : KMB

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
3	Fluoride	3.47	1357995	1357995	1357995
4	Chloride	4.73	4273201	4273201	4273201
5	Nitrite	5.60	1738072	1738072	1738072
6	Bromide	6.97	305627	305627	305627
7	Nitrate	8.00	2292825	2292825	2292825
8	O.Phos	9.93	528298	528298	528298
9	Sulfate	12.05	5482642	5482642	5482642

LEVEL 7



Calibration Update Report

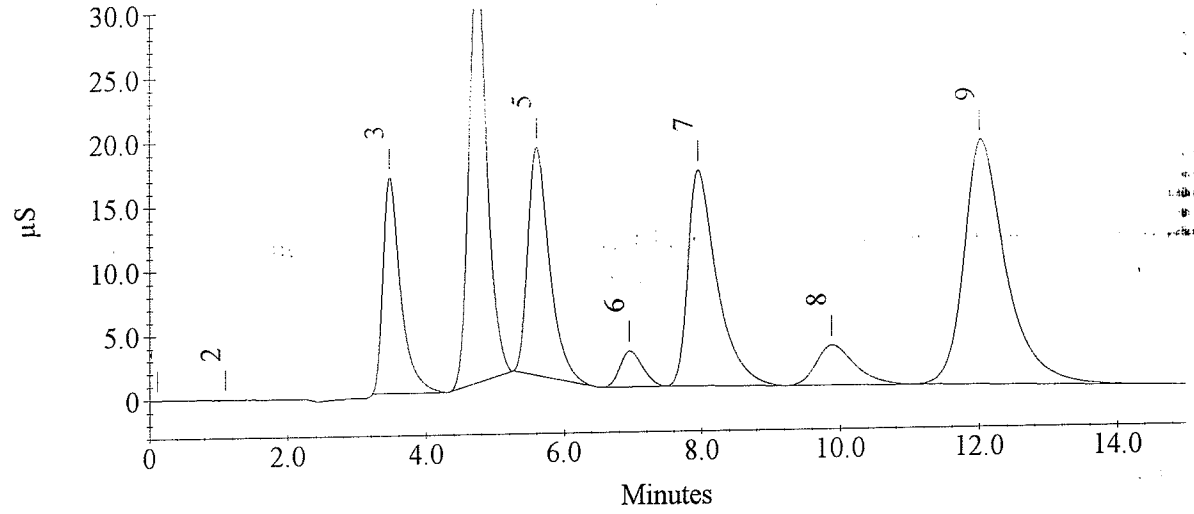
Sample Name : LEVEL 8
Data File Name : C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\W24955\LEVEL 8_018.DXD

Method File Name : C:\INSTRUMENT ARCHIVES\METHODS\SYSTEM 2\W24955.met
Schedule File Name : c:\instrument archives\sequences\system 2\w24955.sch
Date Time Collected : 10/25/2010 21:38:35
Calibration Date : 10/26/2010 09:35:04
System Operator : KMB

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
3	Fluoride	3.47	2951347	2951347	2951347
4	Chloride	4.73	5928545	5928545	5928545
5	Nitrite	5.60		3856013	
6	Bromide	6.95	630021	630021	630021
7	Nitrate	7.95		4944389	
8	O.Phos	9.87		1198569	
9	Sulfate	12.00	7999297	7999297	7999297

LEVEL 8



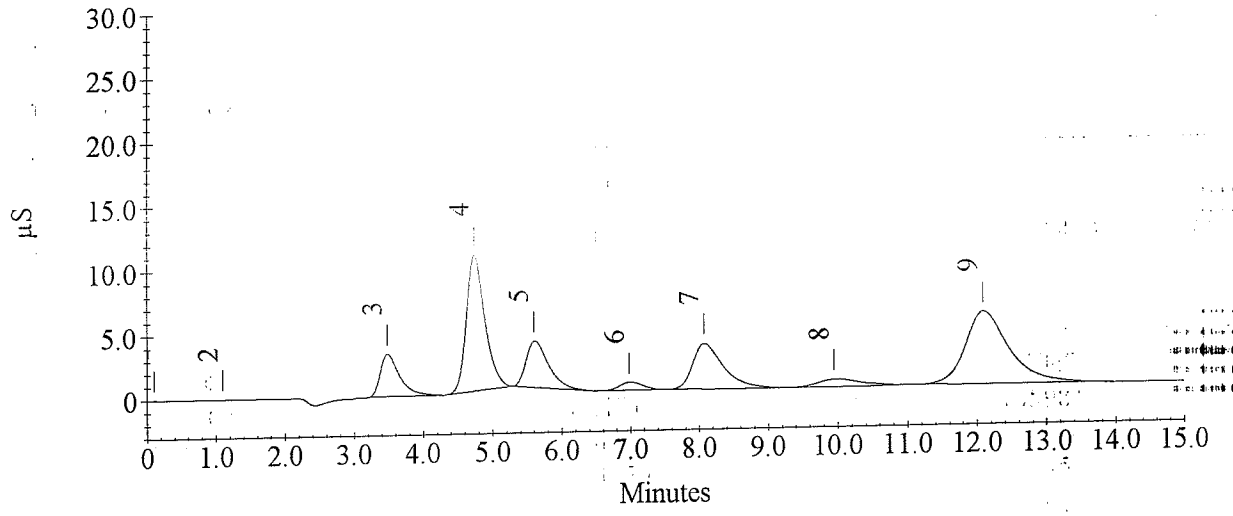
Sample Analysis Report

Sample Name : ICV W24934 W24935
Data File Name : C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\W24955\ICV W24934 W24935_019.DXD

Method File Name : C:\INSTRUMENT ARCHIVES\METHODS\SYSTEM 2\W24955.met
Date Time Collected : 10/25/2010 21:55:50
System Operator : KMB

Peak Information : Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded
3	Fluoride	3.48	3.4367	634955	32967	
4	Chloride	4.73	14.1213	1970105	105981	
5	Nitrite	5.60	3.4367	822248	36161	
6	Bromide	6.98	3.4559	150180	6245	
7	Nitrate	8.07	3.4428	1098313	35502	
8	O.Phos	9.95	3.4664	244737	5788	
9	Sulfate	12.08	22.7529	2482730	56589	



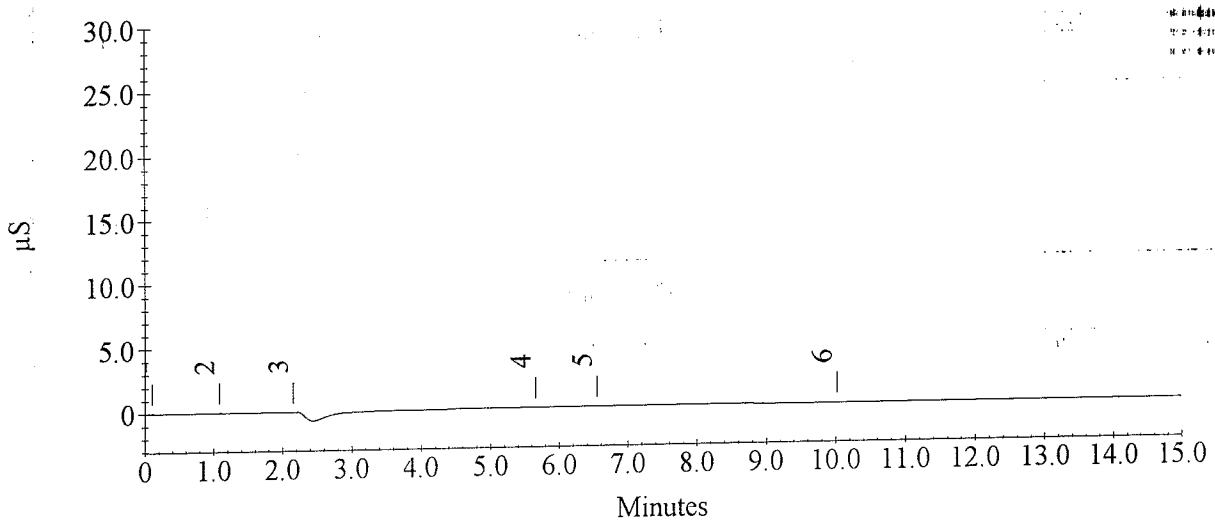
Sample Analysis Report

Sample Name : ICB
Data File Name : C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\W24955\ICB_020.DXD

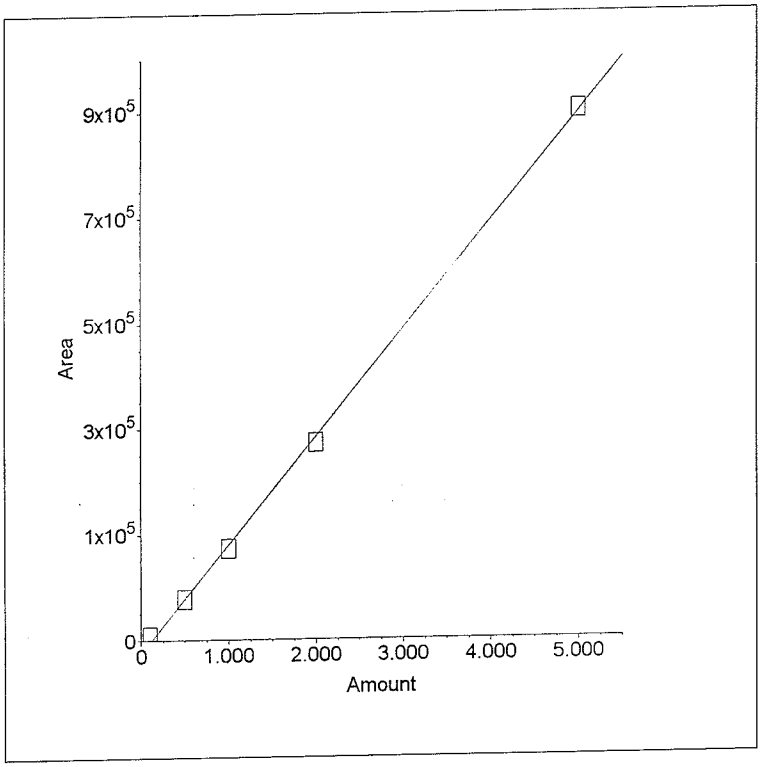
Method File Name : C:\INSTRUMENT ARCHIVES\METHODS\SYSTEM 2\W24955.met
Date Time Collected : 10/25/2010 22:13:05
System Operator : KMB

Peak Information : Found Components

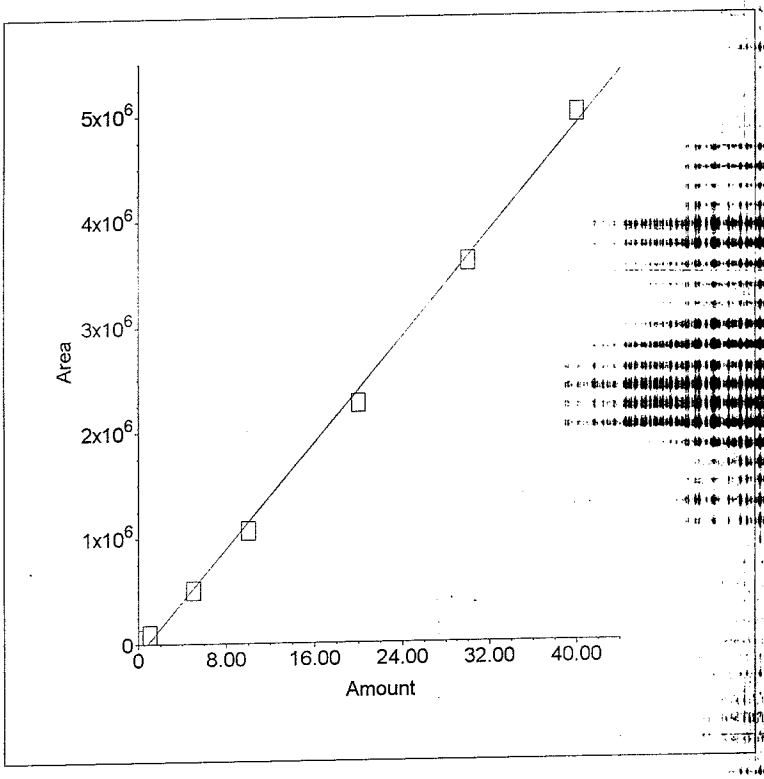
Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded



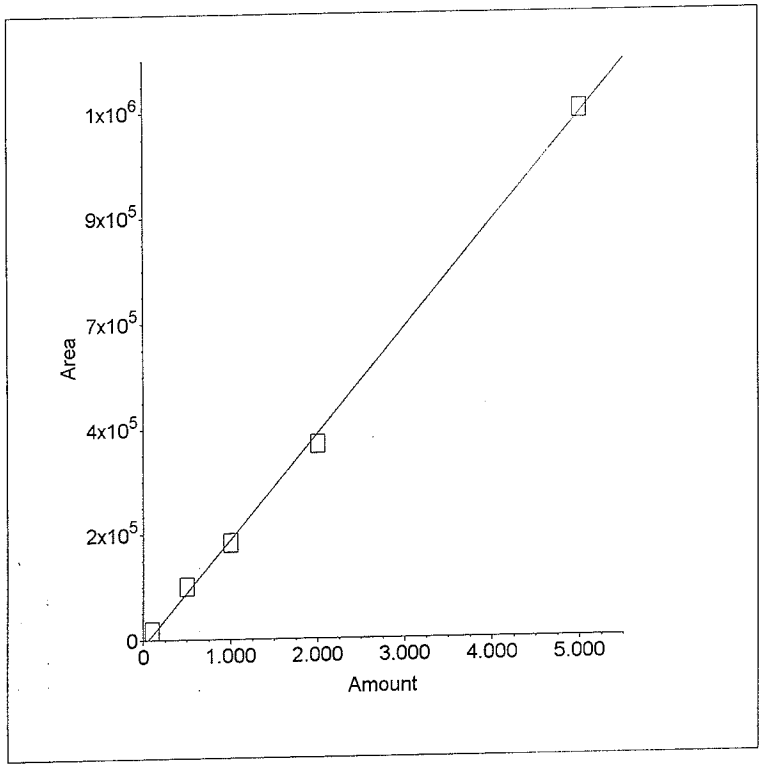
1. Component:Fluoride
Standard:External Fit Type:Linear
Origin:Ignore Calibration:Area
r^2=0.999448
Amt=5.229e-006*Resp+0.1166



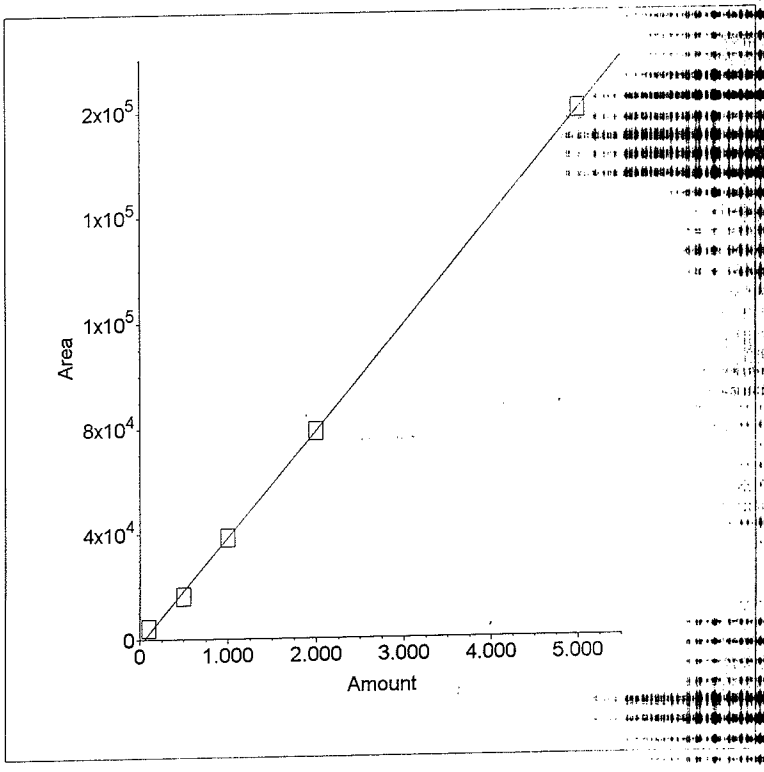
2. Component:Chloride
Standard:External Fit Type:Linear
Origin:Ignore Calibration:Area
r^2=0.997783
Amt=6.749e-006*Resp+0.825



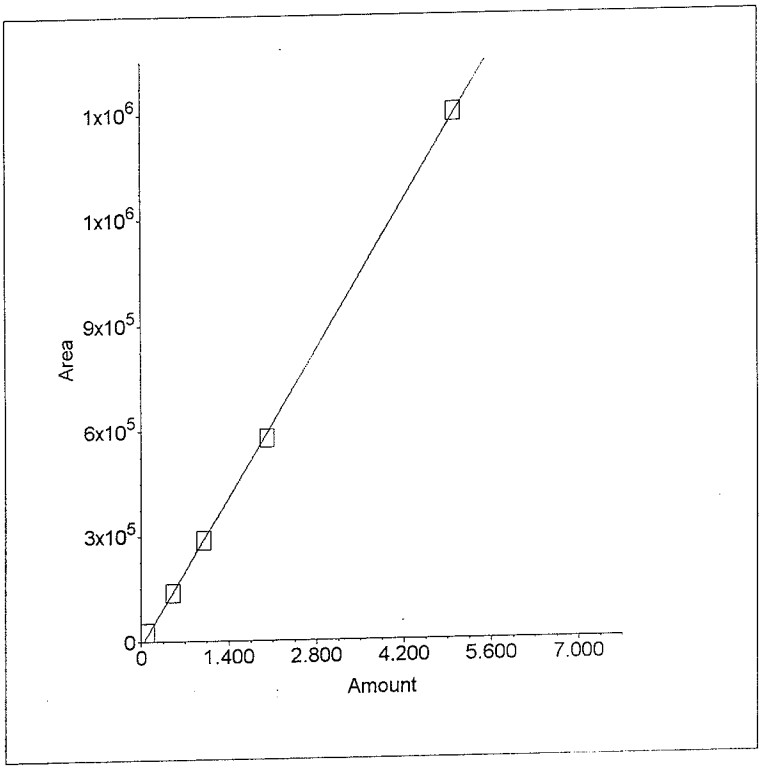
3. Component:Nitrite
Standard:External Fit Type:Linear
Origin:Ignore Calibration:Area
r^2=0.998863
Amt=4.113e-006*Resp+0.05503



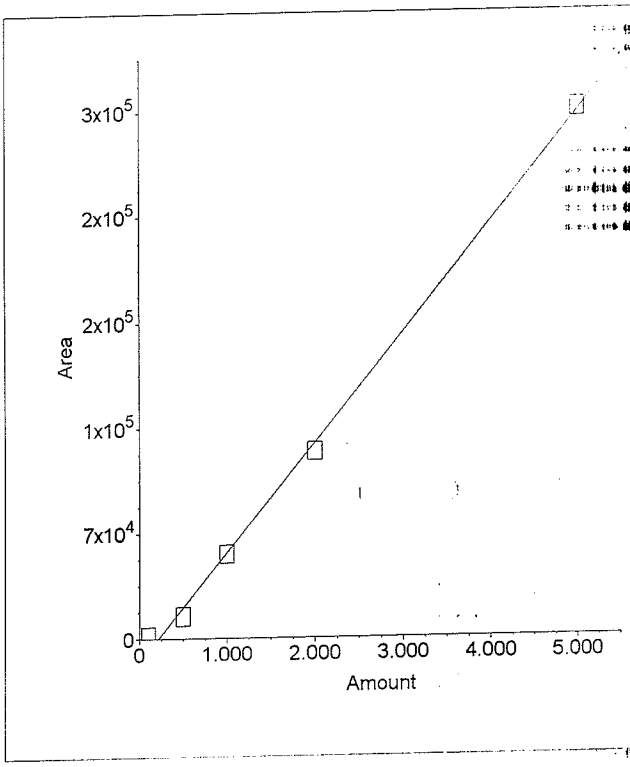
4. Component:Bromide
Standard:External Fit Type:Linear
Origin:Ignore Calibration:Area
r^2=0.999650
Amt=2.271e-005*Resp+0.04516



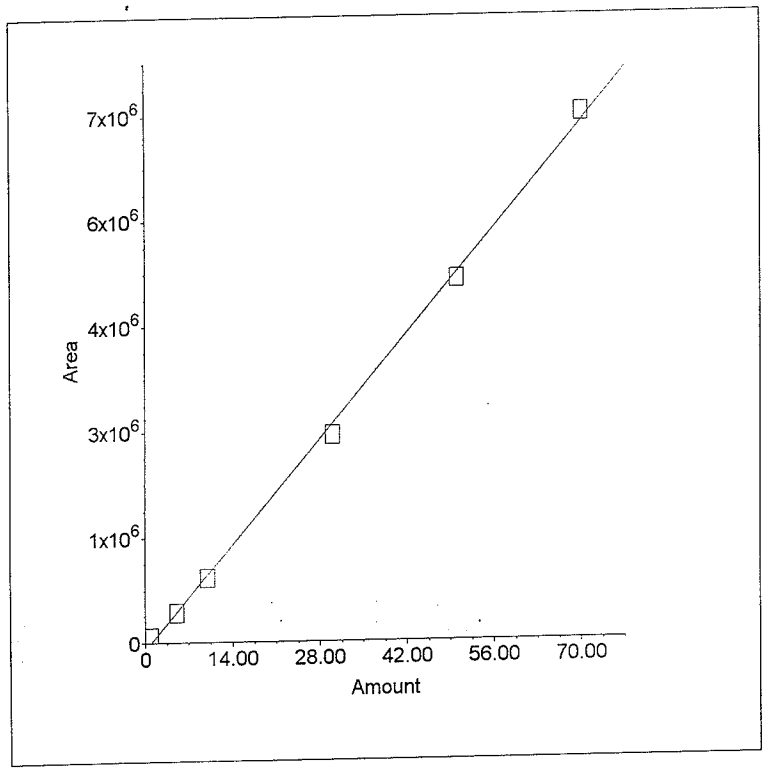
5. Component:Nitrate
Standard:External Fit Type:Linear
Origin:Ignore Calibration:Area
r^2=0.999820
Amt=3.095e-006*Resp+0.04319



6. Component:O.Phos
Standard:External Fit Type:Linear
Origin:Ignore Calibration:Area
r^2=0.997832
Amt=1.329e-005*Resp+0.2145



7. Component:Sulfate
Standard:External Fit Type:Linear
Origin:Ignore Calibration:Area
r^2=0.998706
Amt=8.786e-006*Resp+0.939



Instrument: *DX-120, System*

Cal. File: *W24955*

ICV *W24934* W24935

Analyst: *KMB*

Date: *10/25/2010*

Calibration Concentrations

Analyte	Cal Level 1 Conc. (mg/L)	Cal Level 2 Conc. (mg/L)	Cal Level 3 Conc. (mg/L)	Cal Level 4 Conc. (mg/L)	Cal Level 5 Conc. (mg/L)	Cal Level 6 Conc. (mg/L)	Cal Level 7 Conc. (mg/L)	Cal Level 8 Conc. (mg/L)	ICV Conc. (mg/L)
Fluoride	0.0	0.1	0.5	1.0	2.0	5.0			3.5
Chloride	0.0	0.5	1.0	5.0	10.0	20.0	30.0	40.0	15.0
Nitrite	0.0	0.1	0.5	1.0	2.0	5.0			3.5
Bromide	0.0	0.1	0.5	1.0	2.0	5.0			3.5
Nitrate	0.0	0.1	0.5	1.0	2.0	5.0	7.0		3.5
O-Phoshorous	0.0	0.1	0.5	1.0	2.0	5.0			3.5
Sulfate	0.0	0.5	1.0	5.0	10.0	30.0	50.0	70.0	25.0

Level Not Used

Schedule File: C:\Instrument Archives\Sequences\System 2\72420.sch

Line	Sample	Sample Type	Level	Method
1	CCV W25200 W25278	Sample		w24955.met
2	LCSS X10 VOC043538	Sample		w24955.met
3	MBS X10	Sample		w24955.met
4	870189 X10	Sample		w24955.met
5	MSS870189 X10	Sample		w24955.met
6	MSDS870189 X10	Sample		w24955.met
7	870194 X10	Sample		w24955.met
8	870195 X10	Sample		w24955.met
9	870201 X10	Sample		w24955.met
10	870203 X10	Sample		w24955.met
11	870212 X10	Sample		w24955.met
12	871184 X10	Sample		w24955.met
13	CCV	Sample		w24955.met
14	CCB	Sample		w24955.met
15	871186 X10	Sample		w24955.met
16	871197 X10	Sample		w24955.met
17	871198 X10	Sample		w24955.met
25	CCV	Sample		w24955.met
26	CCB	Sample		w24955.met

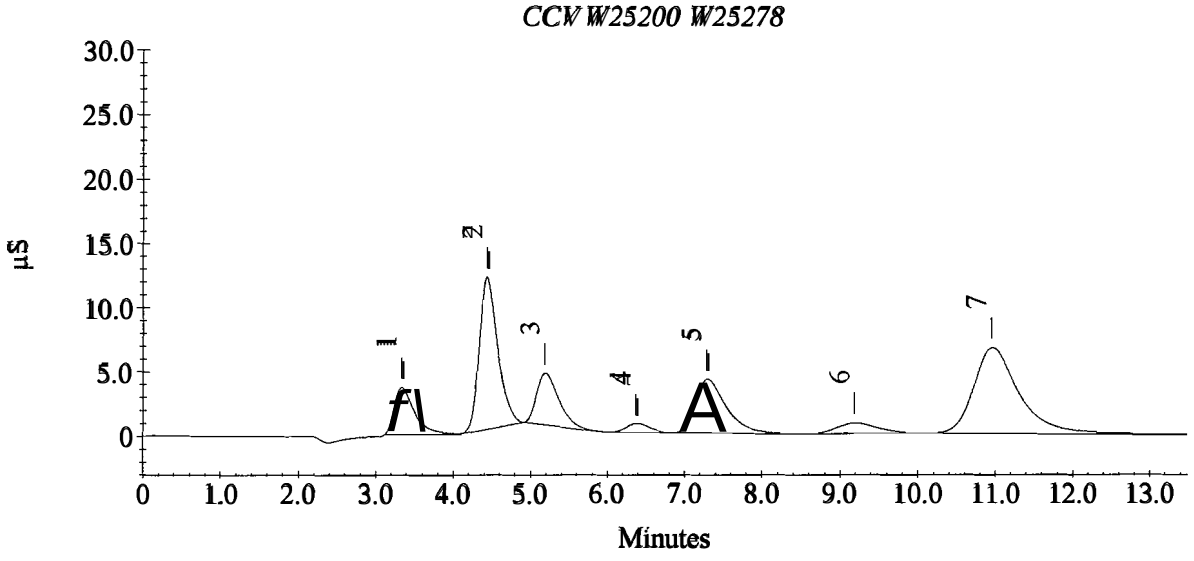
Sample Analysis Report

Sample Name: CCV W25200 W25278
Data File Name: c:\instrument archives\data\system 2\72420\CCV W25200 W25278_001.DXD

Method File Name: c:\instrument archives\methods\system 2\w24955.met
Date Time Collected: 12/11/2010 19:29:41
System Operator: RLD

Peak Information: Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded
1	Fluoride	3.33	3.5627	659061	36413	
2	Chloride	4.43	14.3946	2010594	118489	
3	Nitrite	5.18	3.4176	817601	40308	
4	Bromide	6.37	3.3013	143375	6829	
5	Nitrate	7.28	3.6212	1155951	41789	
6	O.Phos	9.18	4.3227	309186	8508	
7	Sulfate	10.95	25.0714	2746613	67052	



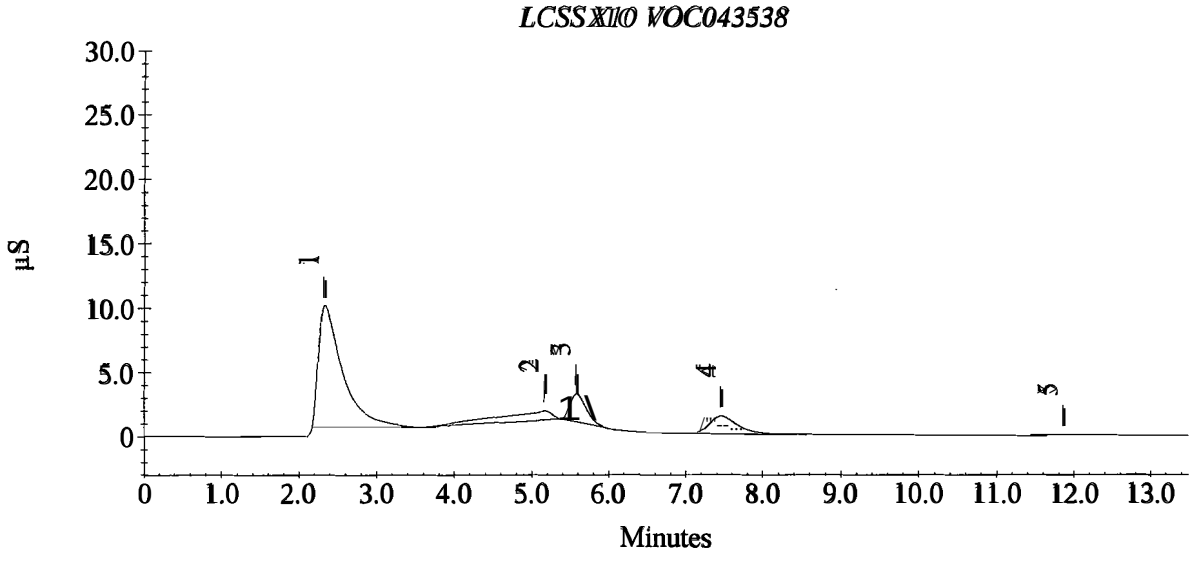
Sample Analysis Report

Sample Name: LCSS X10 VOC043538
Data File Name: C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\72420\LCSS X10 VOC043538_002.DXD

Method File Name: c:\instrument archives\methods\system 2\w24955.met
Date Time Collected: 12/11/2010 19:49:17
System Operator: RLD

Peak Information: Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded
3	Nitrite	5.57	1.3684 >2.5338	319342	21452	
4	Nitrate	7.45	1.1654	362545	14004	
5	Sulfate	11.85	0.9925	6096	196	



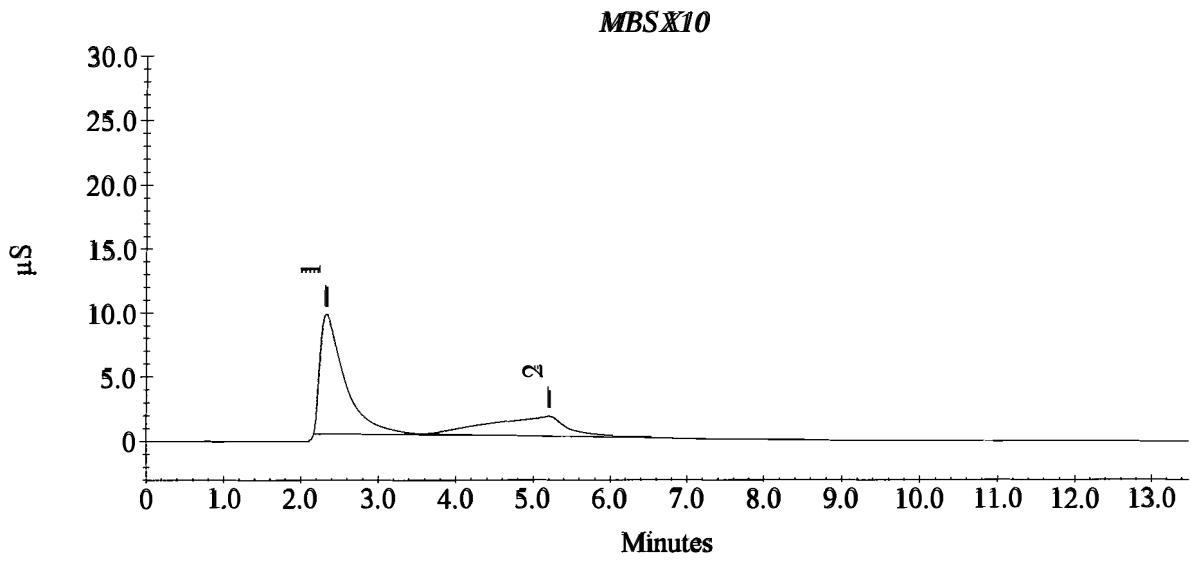
Sample Analysis Report

Sample Name: MBS X10
Data File Name: c:\instrument archives\data\system 2\72420\MBS X10_003.DXD

Method File Name: c:\instrument archives\methods\system 2\w24955.met
Date Time Collected: 12/11/2010 20:07:25
System Operator: RLD

Peak Information: Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded
2	Nitrite	5.18	4.3573	1046097	15230	



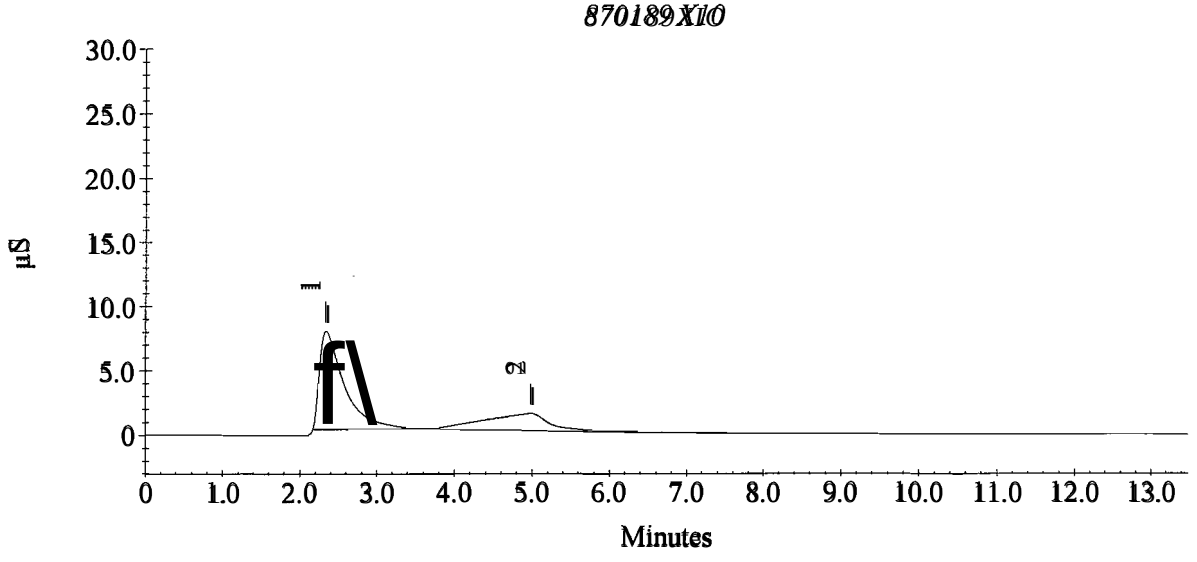
Sample Analysis Report

Sample Name: 870189 X10
Data File Name: c:\instrument archives\data\system 2\72420\870189 X10_004.DXD

Method File Name: c:\instrument archives\methods\system 2\w24955.met
Date Time Collected: 12/11/2010 20:23:06
System Operator: RLD

Peak Information: Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded



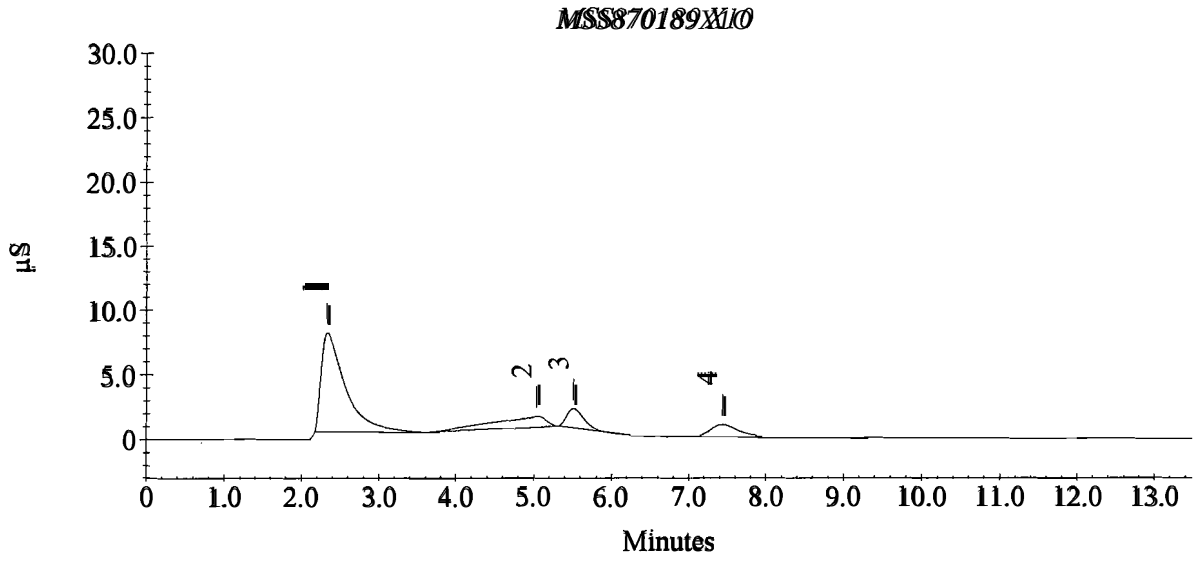
Sample Analysis Report

Sample Name: MSS870189 X10
Data File Name: c:\instrument archives\data\system 2\72420\MSS870189 X10_005.DXD

Method File Name: c:\instrument archives\methods\system 2\w24955.met
Date Time Collected: 12/11/2010 20:38:53
System Operator: RLD

Peak Information: Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded
3	Nitrite	5.52	0.9512	217900	14848	
4	Nitrate	7.43	0.8235	252110	9544	



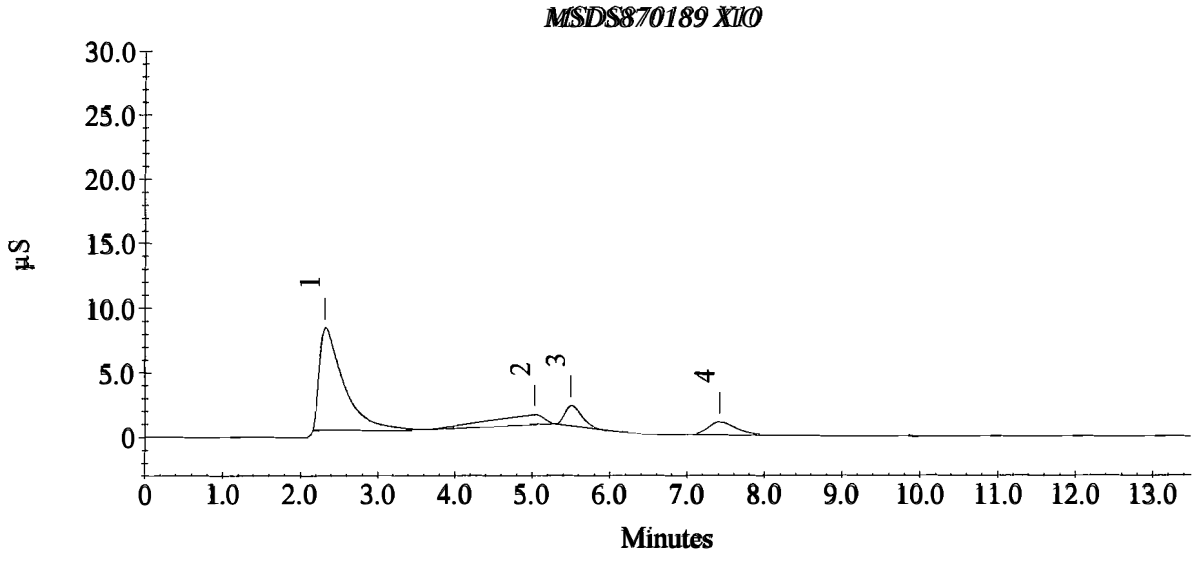
Sample Analysis Report

Sample Name: MSDS870189 X10
Data File Name: c:\instrument archives\data\system 2\72420\MSDS870189 X10_006.DXD

Method File Name: c:\instrument archives\methods\system 2\w24955.met
Date Time Collected: 12/11/2010 20:54:40
System Operator: RLD

Peak Information: Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded
3	Nitrite	5.50	1.0038	230699	15563	
4	Nitrate	7.42	0.8668	266091	10064	



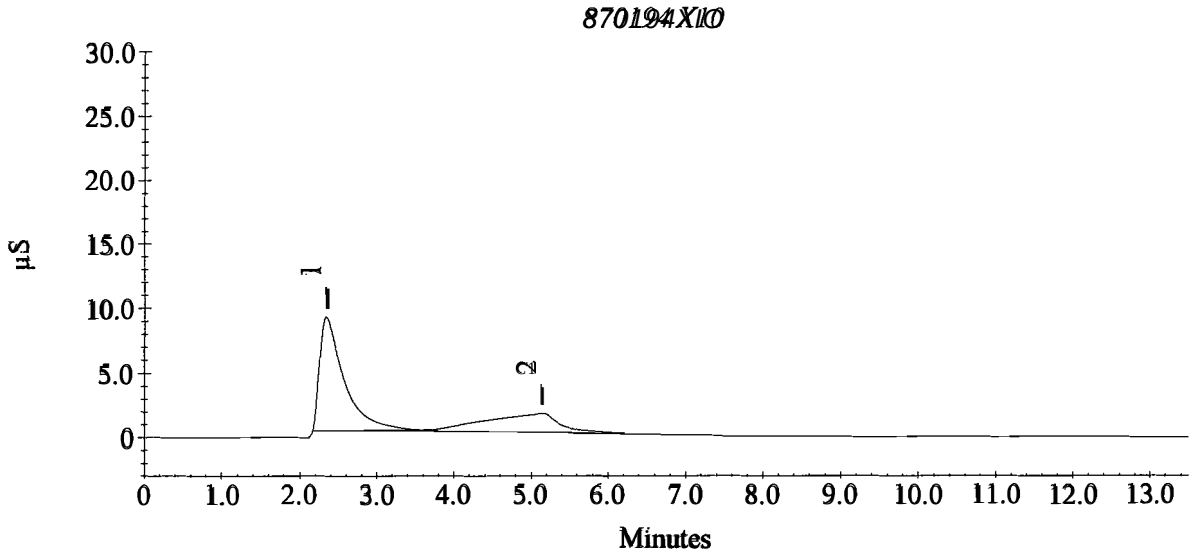
Sample Analysis Report

Sample Name: 870194 X10
Data File Name: C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\72420\870194 X10_007.DXD

Method File Name: c:\instrument archives\methods\system 2\w24955.met
Date Time Collected: 12/11/2010 21:10:26
System Operator: RLD

Peak Information: Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded



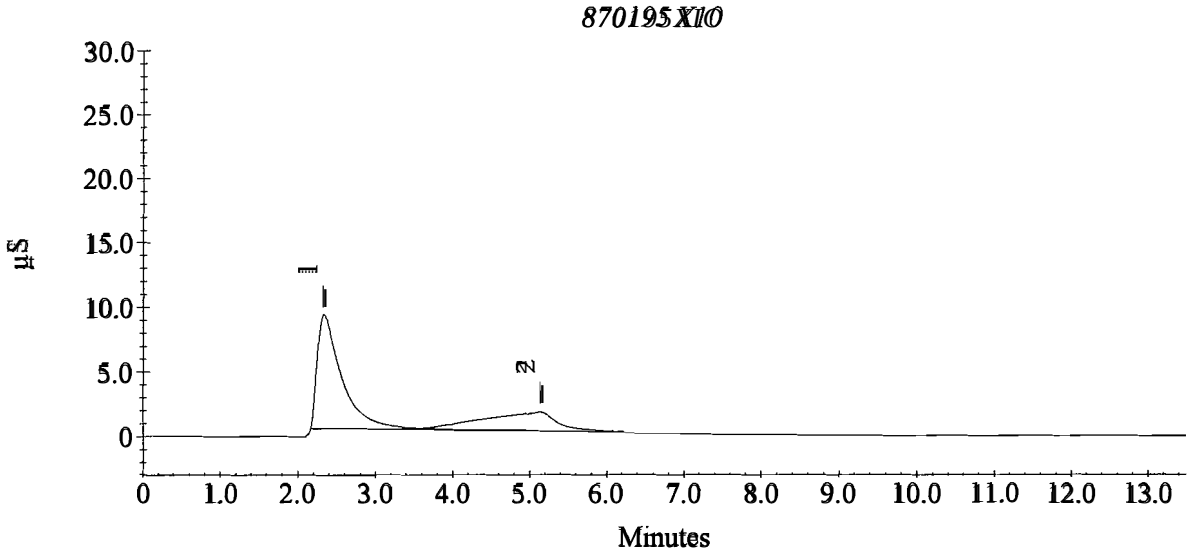
Sample Analysis Report

Sample Name: 870195 X10
Data File Name: C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\72420\870195 X10_008.DXD

Method File Name: c:\instrument archives\methods\system 2\w24955.met
Date Time Collected: 12/11/2010 21:26:13
System Operator: RLD

Peak Information: Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded



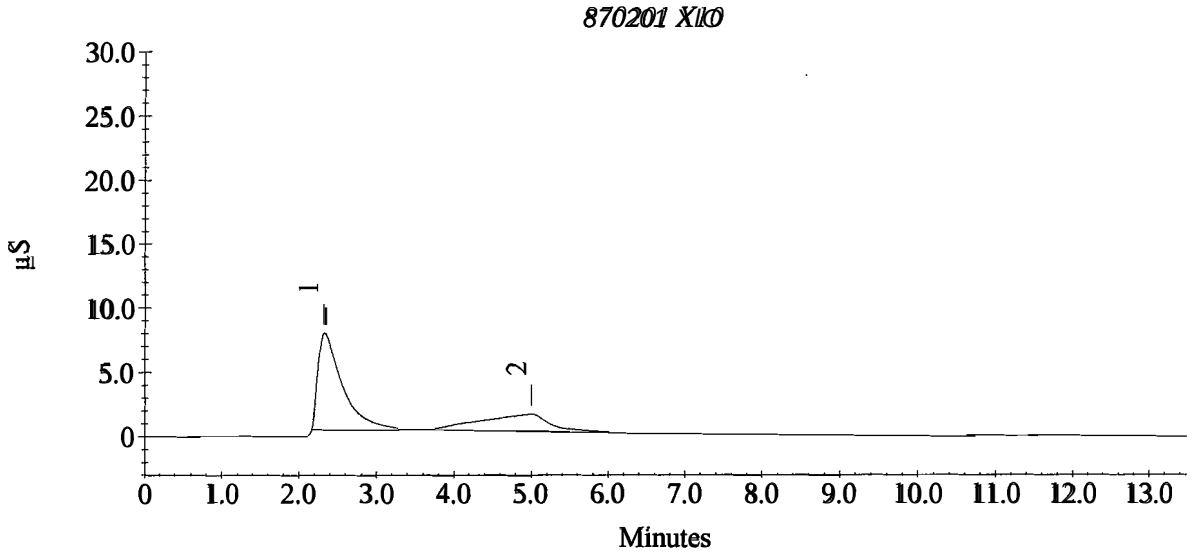
Sample Analysis Report

Sample Name: 870201 X10
Data File Name: c:\instrument archives\data\system 2\72420\870201 X10_009.DXD

Method File Name: c:\instrument archives\methods\system 2\w24955.met
Date Time Collected: 12/11/2001 21:41:59
System Operator: RLD

Peak Information: Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded



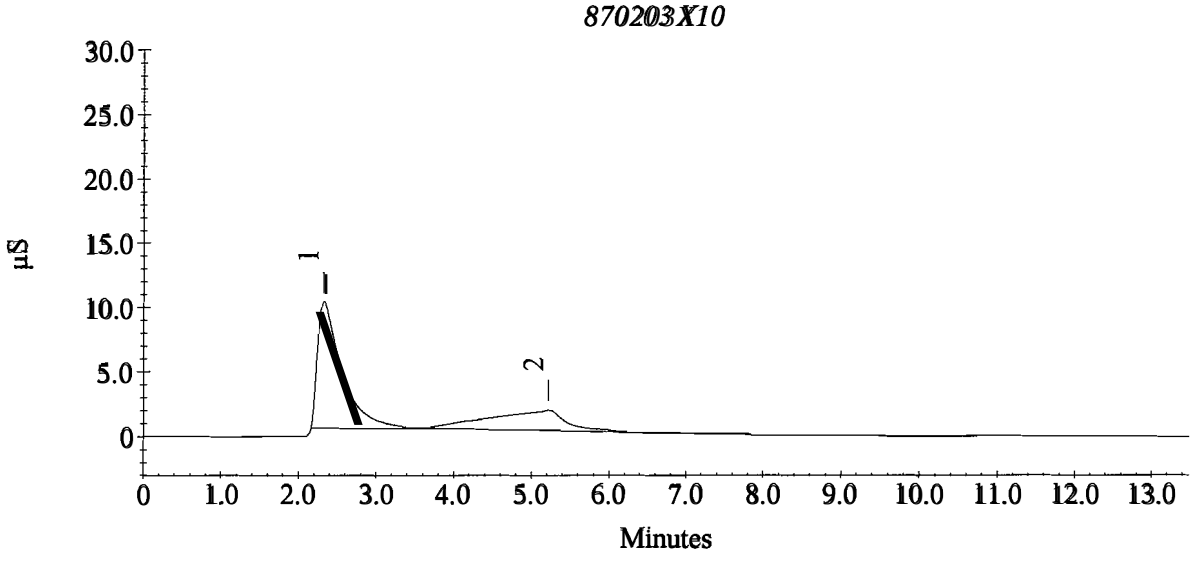
Sample Analysis Report

Sample Name: 870203 X10
Data File Name: C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\72420\870203 X10_010.DXD

Method File Name: c:\instrument archives\methods\system 2\w24955.met
Date Time Collected: 12/11/2010 21:57:46
System Operator: RLD

Peak Information: Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded



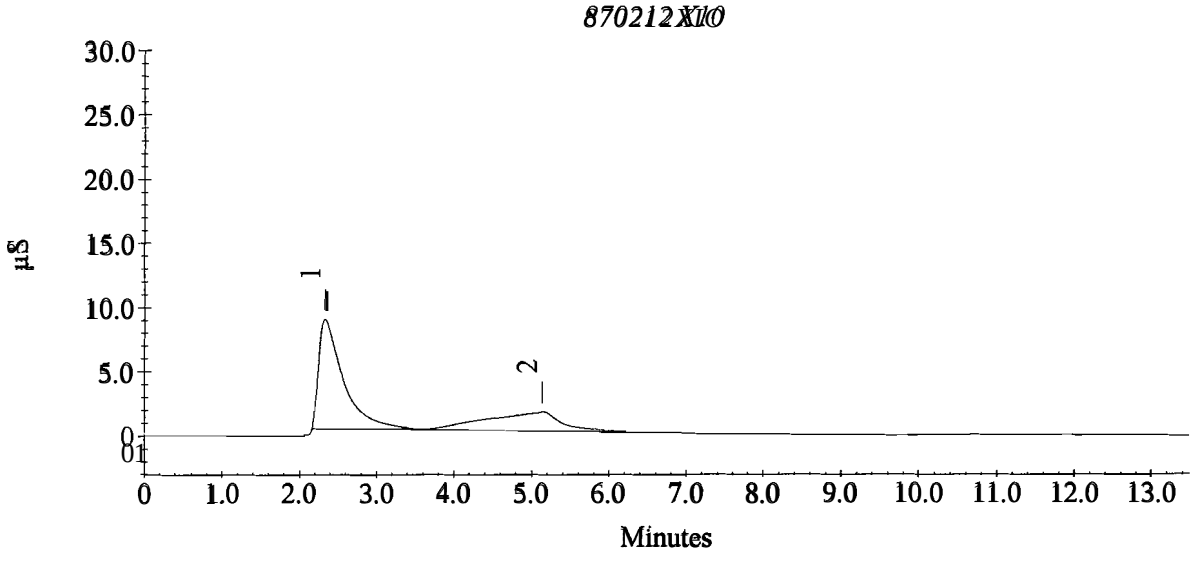
Sample Analysis Report

Sample Name: 870212 X10
Data File Name: C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\72420\870212 X10_011.DXD

Method File Name: c:\instrument archives\methods\system 2\w24955.met
Date Time Collected: 12/11/2010 22:13:32
System Operator: RLD

Peak Information: Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded



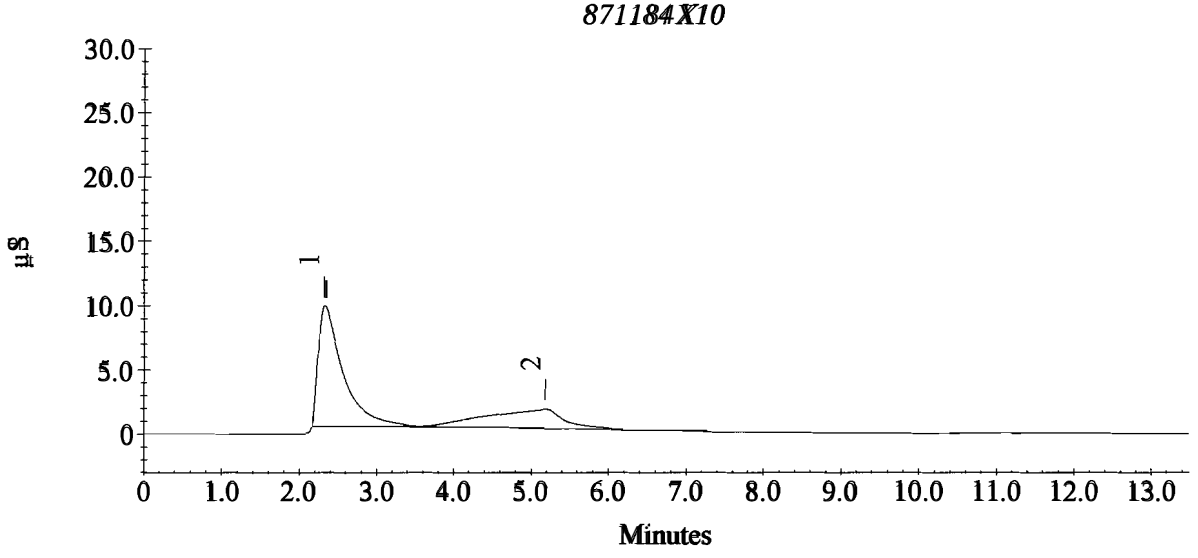
Sample Analysis Report

Sample Name: 871184 X10
Data File Name: c:\instrument archives\data\system 2\72420\871184 X10_012.DXD

Method File Name: c:\instrument archives\methods\system 2\w24955.met
Date Time Collected: 12/11/2010 22:29:19
System Operator: RLD

Peak Information: Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded



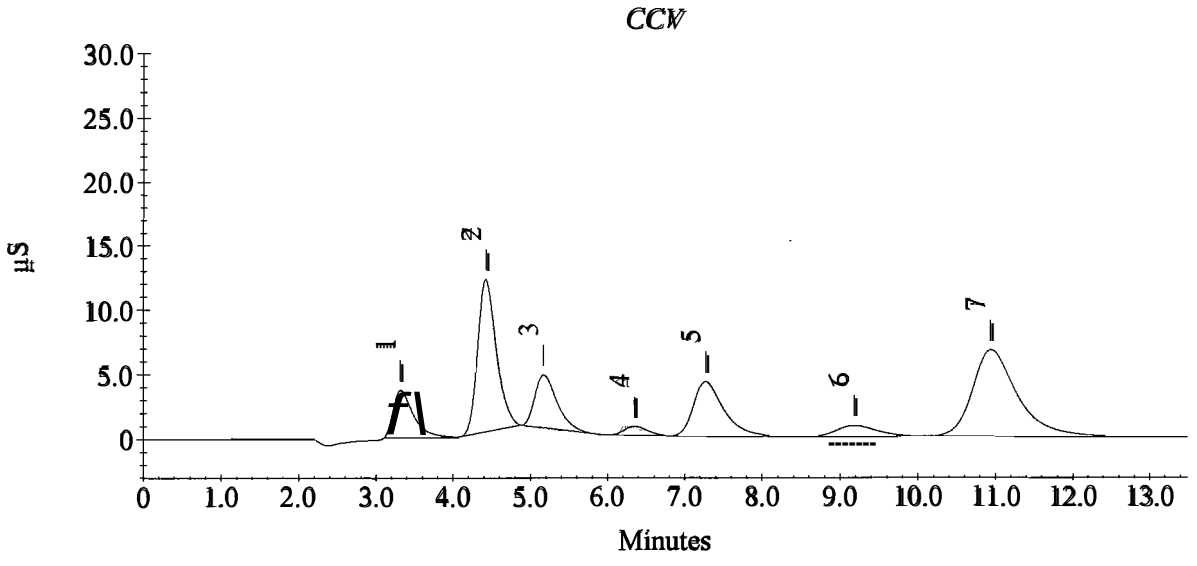
Sample Analysis Report

Sample Name: CCV
Data File Name: C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\72420\CCV_013.DXD

Method File Name: c:\instrument archives\methods\system 2\w24955.met
Date Time Collected: 12/11/2010 22:45:06
System Operator : RLD

Peak Information: Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded
1	Fluoride	3.32	3.5196	650814	36293	
2	Chloride	4.42	14.3046	1997265	118405	
3	Nitrite	5.17	3.4392	822875	40842	
4	Bromide	6.35	3.2879	142784	6865	
5	Nitrate	7.27	3.6239	1156836	42218	
6	O.Phos	9.18	4.3761	313201	8627	
7	Sulfate	10.93	25.0468	2743805	67308	



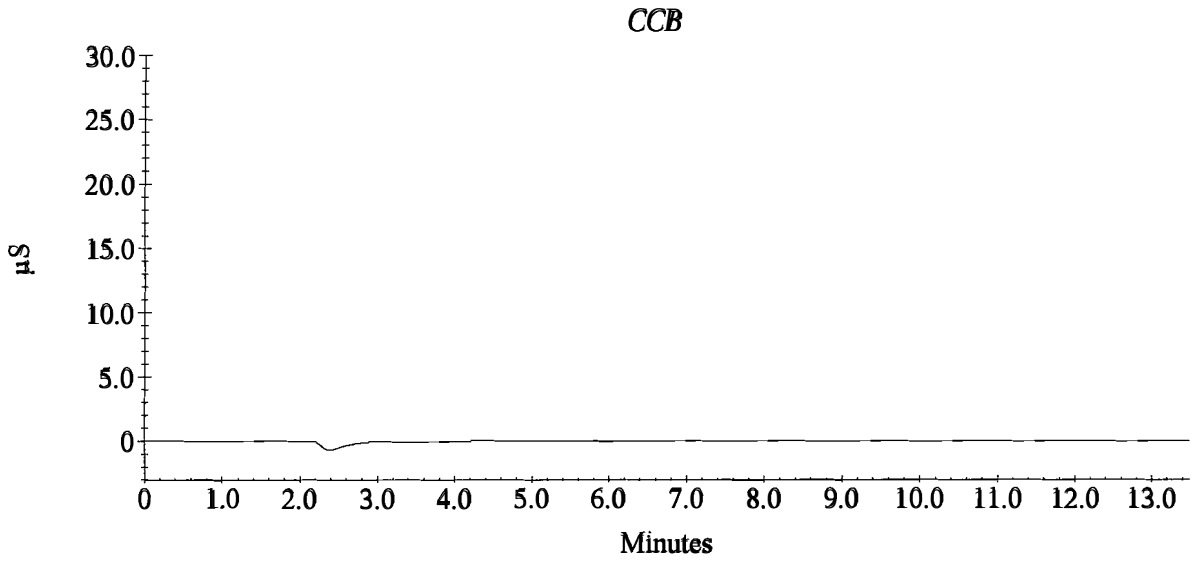
Sample Analysis Report

Sample Name: CCB
Data File Name: c:\instrument archives\data\system 2\72420\CCB_014.DXD

Method File Name: c:\instrument archives\methods\system 2\w24955.met
Date Time Collected: 12/11/2010 23:00:52
System Operator: RLD

Peak Information: Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded



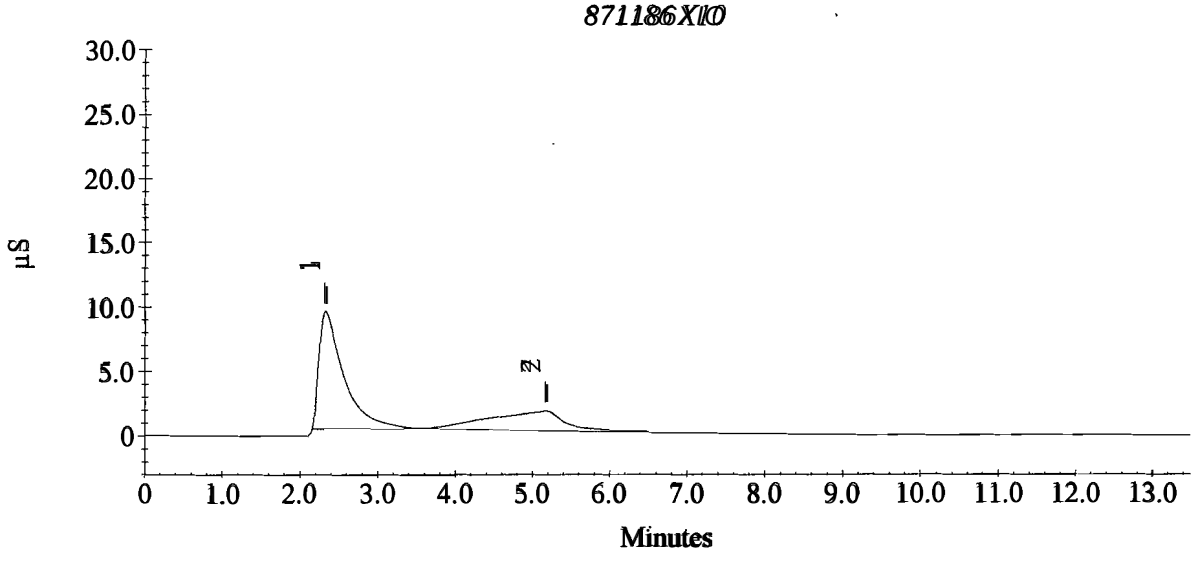
Sample Analysis Report

Sample Name: 871186 X10
Data File Name: c:\instrument archives\data\system 2\72420\871186 X10_015.DXD

Method File Name: c:\instrument archives\methods\system 2\w24955.met
Date Time Collected: 12/11/2010 23:16:39
System Operator: RLD

Peak Information: Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded



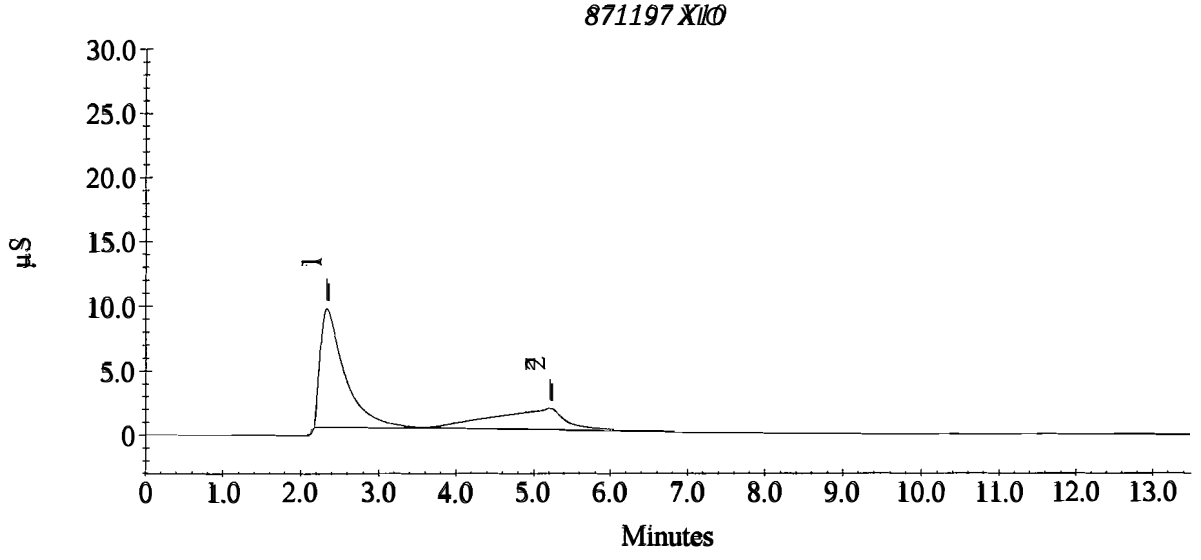
Sample Analysis Report

Sample Name: 871197 X10
Data File Name: c:\instrument archives\data\system 2\72420\871197 X10_016.DXD

Method File Name: c:\instrument archives\methods\system 2\w24955.met
Date Time Collected: 12/11/2010 23:32:26
System Operator: RLD

Peak Information: Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded



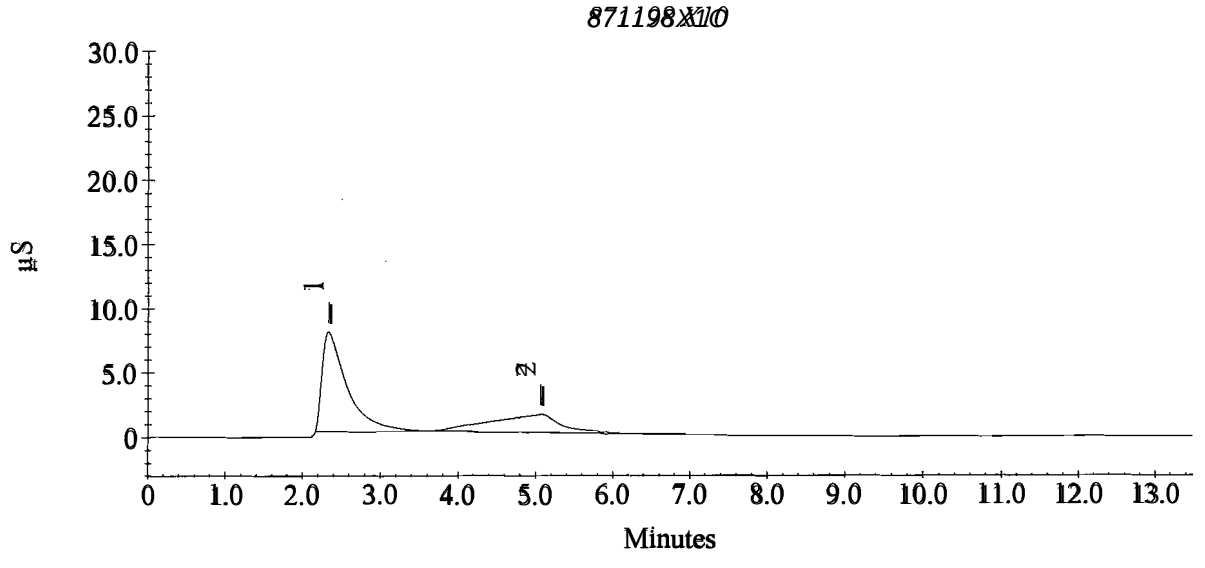
Sample Analysis Report

Sample Name: 871198 X10
Data File Name: c:\Instrument archives\data\system 2\72420\871198 X10_017.DXD

Method File Name: c:\instrument archives\methods\system 2\w24955.met
Date Time Collected: 12/11/201023:48:12
System Operator: RLD

Peak Information: Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded



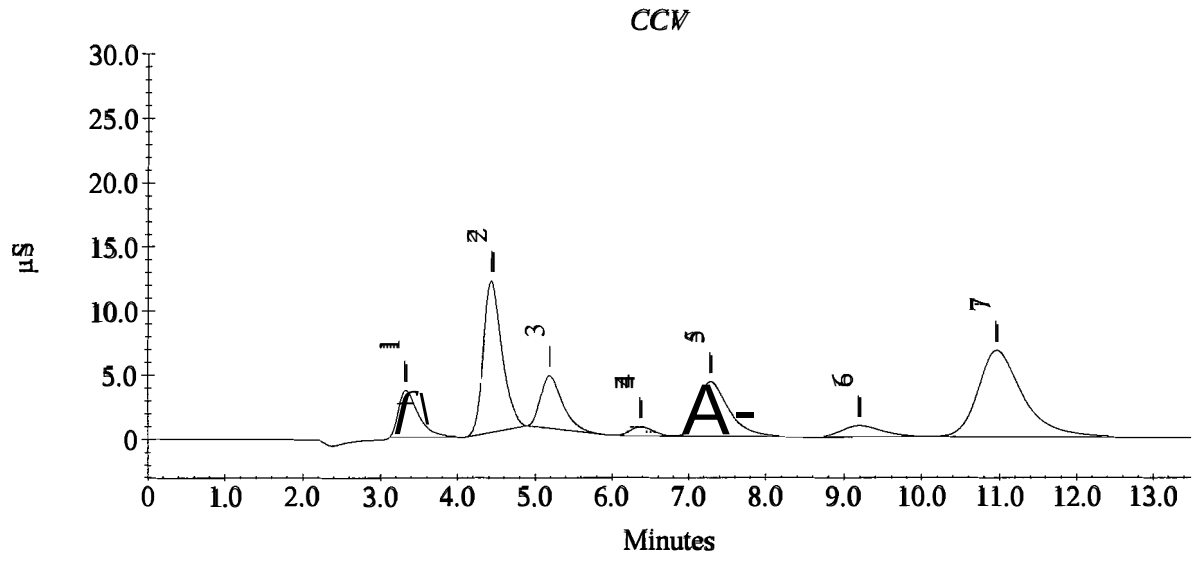
Sample Analysis Report

Sample Name: CCV
Data File Name: C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\72420\CCV_025.DXD

Method File Name: c:\instrument archives\methods\system 2\w24955.met
Date Time Collected: 12/12/201001:54:25
System Operator : RLD

Peak Information: Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded
1	Fluoride	3.32	3.5596	658463	36371	
2	Chloride	4.43	14.2947	1995791	118121	
3	Nitrite	5.18	3.4481	825036	40983	
4	Bromide	6.37	3.2985	143252	6946	
5	Nitrate	7.27	3.6314	1159265	42281	
6	O.Phos	9.18	4.4120	315904	8742	
7	Sulfate	10.95	25.1894	2760034	67636	



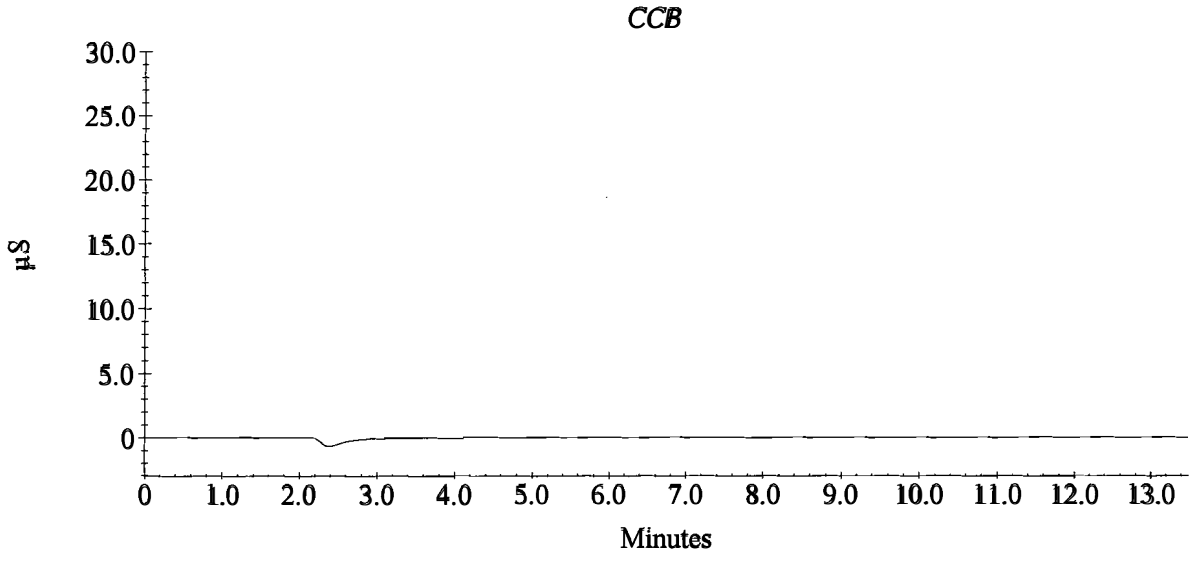
Sample Analysis Report

Sample Name: CCB
Data File Name: c:\instrument archives\data\system 2\72420\CCB_026.DXD

Method File Name: c:\instrument archives\methods\system 2\w24955.met
Date Time Collected: 12/12/2010 02:10:12
System Operator: RLD

Peak Information : Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded



TOTAL SOLIDS (PERCENT)

LIMS #: 71954

Start Date:	**11/22/2010**	Method: SW846-5030A			**Analyst:**	JTG
	Sample ID#	**Dish#**	**Tared Weight g** *(D)*	**Wet Weight g** *(E)*	**Dry Weight g** *(F)*	**RESULTS % TOTAL SOLIDS**
1)	870200	861	2.36	14.13	13.81	97.3%
2)	870202	866	2.35	14.46	13.93	95.6%
3)	870203	862	2.34	14.89	14.47	96.7%
4)	870204	863	2.37	14.19	13.69	95.8%
5)	870207	864	2.39	14.42	14.03	96.8%
6)	871184	865	2.37	16.94	16.66	98.1%
7)	871186	856	2.37	17.45	17.31	99.1%
8)	871187	857	2.34	15.67	15.40	98.0%
9)	871188	858	2.39	14.5	14.22	97.7%
10)	871189	859	2.45	17.9	17.58	97.9%
11)	871190	860	2.34	13.43	13.19	97.8%
12)	871191	854	2.35	14.76	14.49	97.8%
13)	871192	849	2.37	14.23	14.02	98.2%
14)	871193	850	2.34	18.72	18.41	98.1%
15)	871194	855	2.42	18.5	18.37	99.2%
16)	871195	844	2.37	22.17	22.00	99.1%
17)	871196	845	2.33	20.4	20.28	99.3%
18)	871197	848	2.41	17.57	17.42	99.0%
19)	871198	842	2.38	16.09	15.84	98.2%
*20)	870201	843	2.33	17.54	17.07	96.9%
Dup 20)	874181	853	2.34	15.49	15.07	96.8%

Dry Weight = Sample + Dish (gms)		*** 2nd Reading,**	17.07
Wet Weight = Sample + Dish (gms)			Set RPD: 0%
	Balance: XD-2200		
			*mg Difference 0

Start Time:	12:30
Stop Date:	11/23/2010
Stop Time:	10:00

Calculations

*2nd reading must be within 50mg of the 1st

% Total Solids = ((*F-D*)/(*E-D*))*100

RPD, % = Absolute value of…((Sample-Dup % TS)/(Average%TS))*100

TOTAL SOLIDS (PERCENT)

LIMS #: 72192

Start Date:	**12/02/2010**	Method: SW846-5030A			**Analyst:**	KMB
	Sample ID#	**Dish#**	**Tared Weight g** *(D)*	**Wet Weight g** *(E)*	**Dry Weight g** *(F)*	**RESULTS % TOTAL SOLIDS**
1)	870188	2673	2.37	20.03	19.55	97.3%
2)	870216	2668	2.39	18.7	18.39	98.1%
3)	870190	2642	2.43	21.12	20.66	97.5%
4)	870191	2647	2.42	21.12	20.83	98.4%
5)	870192	2650	2.41	16.02	15.78	98.2%
6)	870193	2646	2.41	17.4	17.14	98.3%
7)	870194	2631	2.43	18.72	18.42	98.2%
8)	870195	2645	2.43	17.18	16.90	98.1%
9)	870196	2641	2.40	18.38	18.07	98.1%
10)	870197	2672	2.40	18.8	18.46	97.9%
11)	870208	2700	2.36	14.79	14.60	98.5%
12)	870209	2626	2.39	14.75	14.55	98.4%
13)	870210	2630	2.46	17.15	16.95	98.6%
14)	870211	2671	2.40	19.84	19.57	98.5%
15)	870212	2633	2.43	18.29	18.05	98.5%
16)	870213	2639	2.41	17.21	17.00	98.6%
17)	870214	2638	2.41	15.97	15.73	98.2%
18)	870215	2634	2.46	16.7	16.48	98.5%
19)						0.0%
*20)	870189	2640	2.41	13.12	12.92	98.1%
Dup 20)	877494	2635	2.39	15.2	14.95	98.0%

Dry Weight = Sample + Dish (gms)		* **2nd Reading,**	12.92
Wet Weight = Sample + Dish (gms)			Set RPD: 0%
	Balance: XD-2200		
			*mg Difference 0

Start Time:	17:00
Stop Date:	12/3/2010
Stop Time:	9:00

Calculations

*2nd reading must be within 50mg of the 1st

% Total Solids = ((*F-D*)/(*E-D*))*100

RPD, % = Absolute value of…((Sample-Dup % TS)/(Average%TS))*100

TOTAL SOLIDS (PERCENT)

LIMS #: 72193

Start Date:	**12/02/2010**	Method: SW846-5030A			**Analyst:**	KMB
	Sample ID#	**Dish#**	**Tared Weight g** *(D)*	**Wet Weight g** *(E)*	**Dry Weight g** *(F)*	**RESULTS % TOTAL SOLIDS**
1)	869552	2649	2.44	17.43	17.07	97.6%
2)	869553	2644	2.41	16.01	15.62	97.1%
3)	869554	2648	2.37	17.89	17.46	97.2%
4)	869555	2670	2.37	18.32	17.97	97.8%
5)						0.0%
6)						0.0%
7)						0.0%
8)						0.0%
9)						0.0%
10)						0.0%
11)						0.0%
12)						0.0%
13)						0.0%
14)						0.0%
15)						0.0%
16)						0.0%
17)						0.0%
18)						0.0%
19)						0.0%
*20)	869556	2674	2.38	16.52	16.11	97.1%
Dup 20)	877495	2669	2.37	16.28	15.85	96.9%

Dry Weight = Sample + Dish (gms)		* **2nd Reading,**	16.11	
Wet Weight = Sample + Dish (gms)			Set RPD:	0%
	Balance: XD-2200			
	Start Time: 17:00		*mg Difference	0
	Stop Date: 12/3/2010			
	Stop Time: 9:00			

Calculations

*2nd reading must be within 50mg of the 1st

% Total Solids = ((*F-D*)/(*E-D*))*100

RPD, % = Absolute value of…((Sample-Dup % TS)/(Average%TS))*100

INORGANICS
LOGBOOK
DOCUMENTS

WHEXCHROME Solids QSM Analytical Run
71974 on 11/23/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
82424	870200	DLASS-005-0001-SO	11/9/2010 0920		USACE - LOUISVILLE	RAVENNA	HEX CHROME QSM SOIL	35540	S	4	
82424	870201	DLASS-014-0001-SO	11/9/2010 1525	Designated MS/MSD	USACE - LOUISVILLE	RAVENNA	HEX CHROME QSM SOIL	35540	S	4	
82424	870202	DLASS-011-0001-SO	11/9/2010 1500		USACE - LOUISVILLE	RAVENNA	HEX CHROME QSM SOIL	35540	S	4	
82424	870203	DLASS-014-0003-SO	11/9/2010 1535		USACE - LOUISVILLE	RAVENNA	HEX CHROME QSM SOIL	35540	S	4	
82424	870204	DLASS-030-0001-SO	11/10/2010 1316		USACE - LOUISVILLE	RAVENNA	HEX CHROME QSM SOIL	35540	S	4	
82424	870207	DLASS-026-0001-SO	11/9/2010 1600		USACE - LOUISVILLE	RAVENNA	HEX CHROME QSM SOIL	35540	S	4	
82458	871184	DLASS-032-0003-SO	11/11/2010 0900		USACE - LOUISVILLE	RAVENNA ORE PILES	HEX CHROME QSM SOIL	35540	S	4	
82458	871186	DLASS-042-0003-SO	11/11/2010 1230		USACE - LOUISVILLE	RAVENNA ORE PILES	HEX CHROME QSM SOIL	35540	S	4	
82458	871187	DLASS-035-0001-SO	11/11/2010 0931		USACE - LOUISVILLE	RAVENNA ORE PILES	HEX CHROME QSM SOIL	35540	S	4	
82458	871188	DLASS-036-0001-SO	11/11/2010 1045		USACE - LOUISVILLE	RAVENNA ORE PILES	HEX CHROME QSM SOIL	35540	S	4	
82458	871189	DLASS-031-0001-SO	11/11/2010 0945		USACE - LOUISVILLE	RAVENNA ORE PILES	HEX CHROME QSM SOIL	35540	S	4	
82458	871190	DLASS-039-0001-SO	11/11/2010 1000		USACE - LOUISVILLE	RAVENNA ORE PILES	HEX CHROME QSM SOIL	35540	S	4	
82458	871191	DLASS-037-0001-SO	11/11/2010 1310		USACE - LOUISVILLE	RAVENNA ORE PILES	HEX CHROME QSM SOIL	35540	S	4	
82458	871192	DLASS-034-0001-SO	11/11/2010 1030		USACE - LOUISVILLE	RAVENNA ORE PILES	HEX CHROME QSM SOIL	35540	S	4	
82458	871193	DLASS-038-0001-SO	11/11/2010 1043		USACE - LOUISVILLE	RAVENNA ORE PILES	HEX CHROME QSM SOIL	35540	S	4	
82458	871194	DLASS-044-0001-SO	11/11/2010 1235		USACE - LOUISVILLE	RAVENNA ORE PILES	HEX CHROME QSM SOIL	35540	S	4	
82458	871195	DLASS-041-0001-SO	11/11/2010 1020		USACE - LOUISVILLE	RAVENNA ORE PILES	HEX CHROME QSM SOIL	35540	S	4	
82458	871196	DLASS-040-0001-SO	11/11/2010 0920		USACE - LOUISVILLE	RAVENNA ORE PILES	HEX CHROME QSM SOIL	35540	S	4	
82458	871197	DLASS-042-0001-SO	11/11/2010 1220		USACE - LOUISVILLE	RAVENNA ORE PILES	HEX CHROME QSM SOIL	35540	S	4	

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

WHEXCHROME Solids QSM Analytical Run
71974 on 11/23/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)		CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
82458	871198		11/11/2010 0900			USACE - LOUISVILLE	RAVENNA ORE PILES	HEX CHROME QSM SOIL		S	**4**	
		DLASS-032-0001-SO							35540			
	874621							HEX CHROME QSM SOIL				
				MBS					35540			
	874622							HEX CHROME QSM SOIL				
				LCSS					35540			
	874623		11/9/2010 1525					HEX CHROME QSM SOIL				
		DLASS-014-0001-SO		DUP	870201				35540			
	874624		11/9/2010 1525					HEX CHROME QSM SOIL				
		DLASS-014-0001-SO		MSS	870201				35540			
	875415		11/9/2010 1525					HEX CHROME QSM SOIL				
		DLASS-014-0001-SO		MSS	870201				35540			
	875417							HEX CHROME QSM SOIL				
				PDSS	870201							
	875418							WHEXCHROME Solids QSM				
				CCB								
	875419							WHEXCHROME Solids QSM				
				CCB								
	875420							WHEXCHROME Solids QSM				
				CCB								
	875421							WHEXCHROME Solids QSM				
				CCV								
	875422							WHEXCHROME Solids QSM				
				CCV								
	875423							WHEXCHROME Solids QSM				
				CCV								
	875424							WHEXCHROME Solids QSM				
				CCV								
	875425							WHEXCHROME Solids QSM				
				ICB								
	875426							WHEXCHROME Solids QSM				
				ICV								

35 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

PREP WORKSHEET 2
on 11/23/2010

Prep Batch: 35540
Date Prepped: _____

(2) 100
(3) 250
(4) 500
(5) 1000

InSol: PbCr : W17092
Phosphate Buffer : W23039
Crt6 Dig soln: W25125

Prepped By: _____
Date Entered: _____

Folder #	Order	QC Type	Link	Test	Client Company Name	Client Sample Description	Matrix		Sample Date	Sample Due Date
	874621	MBS 1	0	HEX CHROME QSM SOIL	Sol. Spk: W23662 0.1mL		SOLID	Crt6 Ical: W25126 Crt6 ICV/LCS: W25127		
	874622	LCSS 6	0	HEX CHROME QSM SOIL	MgCl2: W22728		SOLID	Crt6 DR: W25128		
82424	870200	7		HEX CHROME QSM SOILUSACE - LOUISVILLE		DLASS-005-0001-SO	SOIL	2.5g	11/09/2010	11/23/2010
	870201	8*·9·10·11·12 (DP MSI MSS MSPDS)		HEX CHROME QSM SOILUSACE - LOUISVILLE		DLASS-014-0001-SO	SOIL		11/09/2010	11/23/2010
	870202	~~12~~ 13		HEX CHROME QSM SOILUSACE - LOUISVILLE		DLASS-011-0001-SO	SOIL		11/09/2010	11/23/2010
	870203	~~13~~ 14		HEX CHROME QSM SOILUSACE - LOUISVILLE		DLASS-014-0003-SO	SOIL		11/09/2010	11/23/2010
	870204	~~14~~ 15		HEX CHROME QSM SOILUSACE - LOUISVILLE		DLASS-030-0001-SO	SOIL		11/10/2010	11/23/2010
	870207	~~15~~ 16		HEX CHROME QSM SOILUSACE - LOUISVILLE		DLASS-026-0001-SO	SOIL		11/09/2010	11/23/2010
82458	871184	~~16~~ 17		HEX CHROME QSM SOILUSACE - LOUISVILLE		DLASS-032-0003-SO	SOIL		11/11/2010	11/24/2010
	871186	~~17~~ 18		HEX CHROME QSM SOILUSACE - LOUISVILLE		DLASS-042-0003-SO	SOIL		11/11/2010	11/24/2010
	871187	~~18~~ 19		HEX CHROME QSM SOILUSACE - LOUISVILLE		DLASS-035-0001-SO	SOIL		11/11/2010	11/24/2010
	871188	~~19~~ 20		HEX CHROME QSM SOILUSACE - LOUISVILLE		DLASS-036-0001-SO	SOIL		11/11/2010	11/24/2010
	871189	~~20~~ 21		HEX CHROME QSM SOILUSACE - LOUISVILLE		DLASS-031-0001-SO	SOIL		11/11/2010	11/24/2010
	871190	~~21~~ 22		HEX CHROME QSM SOILUSACE - LOUISVILLE		DLASS-039-0001-SO	SOIL		11/11/2010	11/24/2010
	871191	~~22~~ 23		HEX CHROME QSM SOILUSACE - LOUISVILLE		DLASS-037-0001-SO	SOIL		11/11/2010	11/24/2010
	871192	~~23~~ 24		HEX CHROME QSM SOILUSACE - LOUISVILLE		DLASS-034-0001-SO	SOIL		11/11/2010	11/24/2010
	871193	~~24~~ 25		HEX CHROME QSM SOILUSACE - LOUISVILLE		DLASS-038-0001-SO	SOIL		11/11/2010	11/24/2010

11-23-10 ~~16~~ 17

PREP WORKSHEET 2
on 11/23/2010

Folder #	Order	QC Type	Link	Test	Client Company Name	Client Sample Description	Matrix		Sample Date	Sample Due Date
82458	871194	~~25~~	26	HEX CHROME QSM SOILUSACE - LOUISVILLE		DLASS-044-0001-SO	SOIL	2.5g	11/11/2010	11/24/2010
	871195	~~26~~	27	HEX CHROME QSM SOILUSACE - LOUISVILLE		DLASS-041-0001-SO	SOIL		11/11/2010	11/24/2010
11-23-10	871196	~~27~~	28	HEX CHROME QSM SOILUSACE - LOUISVILLE		DLASS-040-0001-SO	SOIL		11/11/2010	11/24/2010
	871197	~~28~~	29	HEX CHROME QSM SOILUSACE - LOUISVILLE		DLASS-042-0001-SO	SOIL		11/11/2010	11/24/2010
JTS	871198	~~29~~	30	HEX CHROME QSM SOILUSACE - LOUISVILLE		DLASS-032-0001-SO	SOIL		11/11/2010	11/24/2010
	874623	DUP	870201	HEX CHROME QSM SOIL		DLASS-014-0001-SO	SOIL		11/09/2010	
	874624	MSS	870201	HEX CHROME QSM SOIL		DLASS-014-0001-SO	SOIL		11/09/2010	
	874625	MSDS	874624	HEX CHROME QSM SOIL		DLASS-014-0001-SO	SOIL		11/09/2010	

Control Spike/Control Spike Dup Reference Number:_____ Methanol Supplier/Lot #:_____

Notes:_____

PREP WORKSHEET
on 11/23/2010

Prep Batch **35,540**

Date Prepped: 11/23/2010

Prepped By:: JTG

Date Entered:

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
	874621	MBS		HEX CHROME QSM SOILSOLID		100	2.5			
	874622	LCSS		HEX CHROME QSM SOILSOLID		100	2.5			
82424	870200			HEX CHROME QSM SOILSOIL		100	2.5		N	
	870201	*		HEX CHROME QSM SOILSOIL		100	2.5		N	
	870202			HEX CHROME QSM SOILSOIL		100	2.5		N	
	870203			HEX CHROME QSM SOILSOIL		100	2.5		N	
	870204			HEX CHROME QSM SOILSOIL		100	2.5		N	
	870207			HEX CHROME QSM SOILSOIL		100	2.5		N	
82458	871184			HEX CHROME QSM SOILSOIL		100	2.5		N	
	871186			HEX CHROME QSM SOILSOIL		100	2.5		N	
	871187			HEX CHROME QSM SOILSOIL		100	2.5		N	
	871188			HEX CHROME QSM SOILSOIL		100	2.5		N	
	871189			HEX CHROME QSM SOILSOIL		100	2.5		N	
	871190			HEX CHROME QSM SOILSOIL		100	2.5		N	
	871191			HEX CHROME QSM SOILSOIL		100	2.5		N	
	871192			HEX CHROME QSM SOILSOIL		100	2.5		N	
	871193			HEX CHROME QSM SOILSOIL		100	2.5		N	

PREP WORKSHEET
on 11/23/2010

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
82458	871194			HEX CHROME QSM SOIL	SOIL	100	2.5		N	
	871195			HEX CHROME QSM SOIL	SOIL	100	2.5		N	
	871196			HEX CHROME QSM SOIL	SOIL	100	2.5		N	
	871197			HEX CHROME QSM SOIL	SOIL	100	2.5		N	
	871198			HEX CHROME QSM SOIL	SOIL	100	2.5		N	
	874623	DUP	870201	HEX CHROME QSM SOIL	SOIL	100	2.5			
	874624	MSS	870201	HEX CHROME QSM SOIL	SOIL	100	2.5			
	875415	MSS	870201	HEX CHROME QSM SOIL	SOIL	100	2.5			

Control Spike/Control Spike Dup Reference Number:_____ Methanol Supplier/Lot #:_____
Notes:_____

Data Validation Checklist

LIMS #: 71974	Method: Hexavalent Chromium- Alkaline digestion SW846-3060A/7196A			
Analysis Date	Analyst / Data Interpreter	Independent Reviewer	Date of Review	Approved
11-23-10	JTG / JTG	mm	11-28-10	(Yes) ... No

Instructions: Complete one checklist per *analytical run*. Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section, and may require the initiation of a Nonconformance Report.

Requirement:	Acceptance Criteria	Analyst Review Yes	Analyst Review No	Independent Review Yes	Independent Review No	Comments: (indicate reference to an attachment if necessar
1. Were the samples analyzed within hold time?	30 days	X		X		
2. Was the calibration performed using the required number of standards?	Five plus a blank					
3. Is the standard prep log number noted on the analytical report?	---					
3. Was the correlation coefficient acceptable?	>= 0.995					
4. Were the ICV and ICB run immediately after the calibration curve?	---					
5. Was the ICV recovery acceptable?	90 – 110 %					
6. Was the ICB result acceptable?	< LOD					
7. Were the CCV's and the CCB's analyzed at the required frequency?	1per 10 samples					
8. Were the CCV recoveries acceptable?	90 – 110 %					
9. Were the CB results acceptable?	< LOD					
10. Was a LCS ran at the required frequency?	1 per 20 samples					
11. Was the LCS recovery acceptable?	80-120 %					
12. Was the LCS used before the indicated expiration date?	---					
13. Were samples results corrected for sample color affects?						
14. Were the MS and MSD prepared at the required frequency?	1per 20 field samples					
15. Were the MS and MSD recoveries acceptable?	Within in house QC limits		X		X	MSSIS, MSSS, PDSo1 SPK fail M flag
16. Was the RPD between the MS and MSD acceptable?	Within in house QC limits			X		
17. Are all sample on the job lists accounted for?	---			X		

Spec. 401 Accuracy Check / Maintenance Logbook

Date/Time	*Acceptance Range: +/- 2 nm 529 nm	742 nm	Analyst	Comments or Performed Maintenance:
10-13-10 JTG 1015	530	741	JTG	
~~10-13-10~~ 10-14-10 1000 JTG	530	741	JTG	
10-15-10 1545	530	741	JTG	
10-18-10 1415	530	741	JTG	
10/19/10 1700	530	741	CES	
10-20-10 1500	530	741	JTG	
10-21-10 1000	530	741	JTG	
~~10/25/10~~ 10/26/10 1550	530	741	EJC	
10-27-10 1520	530	741	JTG	
10-29-10 1445	530	741	JTG	
11-1-10 1615	530	741	JTG	
11-2-10 1545	530	741	KMB	
11-5-10 1300	530	741	CES	
11-9-10 1420	530	741	JTG	
11-12 10 1400	530	741	CES	
11-16-10 1325	530	741	EJC	
11-17-10 1640	530	741	EJC	
11-18-10 1600	530	741	JTG	
11-23-10 1430	530	741	JTG	
11-24-10 1435	530	741	EJC	
11-30-10 0940	530	741	CES	

*If values obtained are not within Acceptance Range, correct and document the problem then re-check the accuracy.

Reviewed By:_____

Instrument Run Log

			Instrument ID:	Milton Roy Spectronic 401	Spectrophotometer		
Date	Time Start/End	Analyst	Analytes	Samples Analyzed	Cal Std ID		Comments
10-20-10	1500 - 1530	JTG	COD	71122	Test 02		
10-20-10	1545 - 1630	JTG	Chlor. A	71138	—		
10-21-10	1030 - 1035	JTG	COD	71122	Test 02		
10/26/10	1550-1610	ESC	Cr^{+6}	35227-35228	—		
10-27-10	1530 - 1550	JTG	Chlor. A	71309 thru 71310	—		
10-28-10	1445 - 1500	JTG	Chlor. A	71390	—		
11-11-10	1615 - 1630	JTG	Chlor. A	71425	—		
11-2-10	1545-1615	KWS	COD	71439, 71440	Test 02		
11-5-10	1340-1350	CEJ	Chlor A	71528	—		
11-9-10	1420 - 1445	JTG	Chlor A	71609 71630	—		
11-12-10	1400 - 1430	CEJ	Cr^{+6}	71721			
11-16-10	1330 - 1340	ESC	COD	71788+71789	Test 02		
11-17-10	1640 - 1715	ESC	Chlor A	71858, 71857, 71856	—		
11-17-10	1645 - 1700	JTG	Chlor A	71895	—		
11-23-10	1430 - 1545	SMTG	Cr^{+6}	71961 thru 71964	—		
11-24-10	1435 - 1505	ESC	Cr^{+6}	71917	—		
11-30-10	0945 - 1010	CEJ	COD	72033T	Test 02		
11-30-10	1405 - 1430	JTG	Chlor A	72089, 72090	—		
12-7-10	1600 - 1630	KWS	Chl. A	72172, 72173	—		
12-7-10	1330 - 1440	JTG	Cr^{+6}	72077-78	—		

WHEXCHROME Solids QSM Analytical Run
72278 on 12/14/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)		CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
82399	869552	DLASS-010-0001-SO	11/9/2010 1100			USACE - LOUISVILLE	RAVENNA	HEX CHROME QSM SOIL	35690	S	4	
82399	869553	DLASS-019-0001-SO	11/9/2010 1022			USACE - LOUISVILLE	RAVENNA	HEX CHROME QSM SOIL	35690	S	4	
82399	869554	DLASS-009-0001-SO	11/9/2010 1155			USACE - LOUISVILLE	RAVENNA	HEX CHROME QSM SOIL	35690	S	4	
82399	869555	DLASS-024-0001-SO	11/9/2010 1235			USACE - LOUISVILLE	RAVENNA	HEX CHROME QSM SOIL	35690	S	4	
82399	869556	DLASS-004-0001-SO	11/9/2010 1028			USACE - LOUISVILLE	RAVENNA	HEX CHROME QSM SOIL	35690	S	4	
82424	870188	DLASS-027-0001-SO	11/10/2010 0955			USACE - LOUISVILLE	RAVENNA	HEX CHROME QSM SOIL	35690	S	4	
82424	870189	DLASS-002-0001-SO	11/10/2010 1015	Designated MS/MSD		USACE - LOUISVILLE	RAVENNA	HEX CHROME QSM SOIL	35690	S	4	
82424	870190	DLASS-018-0001-SO	11/10/2010 1225			USACE - LOUISVILLE	RAVENNA	HEX CHROME QSM SOIL	35690	S	4	
82424	870191	DLASS-001-0001-SO	11/10/2010 1030			USACE - LOUISVILLE	RAVENNA	HEX CHROME QSM SOIL	35690	S	4	
82424	870192	DLASS-016-0001-SO	11/10/2010 1405			USACE - LOUISVILLE	RAVENNA	HEX CHROME QSM SOIL	35690	S	4	
82424	870193	DLASS-017-0001-SO	11/10/2010 1330			USACE - LOUISVILLE	RAVENNA	HEX CHROME QSM SOIL	35690	S	4	
	878292			MBS				HEX CHROME QSM SOIL	35690			
	878293			LCSS				HEX CHROME QSM SOIL	35690			
	878294	DLASS-002-0001-SO	11/10/2010 1015	DUP	870189			HEX CHROME QSM SOIL	35690			
	878295			PDSS	870189			HEX CHROME QSM SOIL				
	878296	DLASS-002-0001-SO	11/10/2010 1015	MSS	870189			HEX CHROME QSM SOIL	35690			
	878297	DLASS-002-0001-SO	11/10/2010 1015	MSS	870189			HEX CHROME QSM SOIL	35690			
	879056			CCB				WHEXCHROME Solids QSM				
	879057			CCB				WHEXCHROME Solids QSM				

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

WHEXCHROME Solids QSM Analytical Run
72278 on 12/14/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	879058						WHEXCHROME Solids QSM				
				CCV							
	879059						WHEXCHROME Solids QSM				
				CCV							
	879060						WHEXCHROME Solids QSM				
				CCV							
	879061						WHEXCHROME Solids QSM				
				ICV							
	879062						WHEXCHROME Solids QSM				
				ICB							
	880648						WHEXCHROME Solids QSM				
				CCB							
	880649						WHEXCHROME Solids QSM				
				CCV							
	880650						WHEXCHROME Solids QSM				
				CCV							
	880653						HEX CHROME QSM SOIL				
				MBS				35690			
	880654						HEX CHROME QSM SOIL				
				LCSS				35690			

29 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

(1) 0
(2) 100
(3) 250
(4) 500
(5) 1,000

PREP WORKSHEET 2
on 12/7/2010

spk: W23662 0.1mL
LCS: W25233 + W25307
Pb Cr04: W17292
Magnesium chlor: W22728
Phosphate Buffer: W23039

Ical: W25232 + W25306
Dig soln: W25237 + W25305
DPC: W25234 + W25308

Prep Batch: 35690
Date Prepped: _____

Prepped By: _____
Date Entered: _____

Folder #	Order	QC Type	Link	Test	Client Company Name	Client Sample Description	Matrix	Sample Date	Sample Due Date
	878292	MBS (1)	0	HEX CHROME QSM SOIL			SOLID		
	878293	LCSS 6	0	HEX CHROME QSM SOIL			SOLID		
82399	869552	7		HEX CHROME QSM SOILUSACE - LOUISVILLE	2.5g	DLASS-010-0001-SO	SOIL	11/09/2010	11/22/2010
	869553	8		HEX CHROME QSM SOILUSACE - LOUISVILLE		DLASS-019-0001-SO	SOIL	11/09/2010	11/22/2010
	869554	9		HEX CHROME QSM SOILUSACE - LOUISVILLE		DLASS-009-0001-SO	SOIL	11/09/2010	11/22/2010
	869555	10		HEX CHROME QSM SOILUSACE - LOUISVILLE		DLASS-024-0001-SO	SOIL	11/09/2010	11/22/2010
	869556	11		HEX CHROME QSM SOILUSACE - LOUISVILLE		DLASS-004-0001-SO	SOIL	11/09/2010	11/22/2010
82424	870188	12		HEX CHROME QSM SOILUSACE - LOUISVILLE		DLASS-027-0001-SO	SOIL	11/10/2010	11/23/2010
	870189	13 DUP 14 LCS (15) MS (16) PDS (17)		HEX CHROME QSM SOILUSACE - LOUISVILLE		DLASS-002-0001-SO	SOIL	11/10/2010	11/23/2010
	870190	18		HEX CHROME QSM SOILUSACE - LOUISVILLE		DLASS-018-0001-SO	SOIL	11/10/2010	11/23/2010
	870191	19		HEX CHROME QSM SOILUSACE - LOUISVILLE		DLASS-001-0001-SO	SOIL	11/10/2010	11/23/2010
	870192	20		HEX CHROME QSM SOILUSACE - LOUISVILLE		DLASS-016-0001-SO	SOIL	11/10/2010	11/23/2010
	870193	21		HEX CHROME QSM SOILUSACE - LOUISVILLE		DLASS-017-0001-SO	SOIL	11/10/2010	11/23/2010

Control Spike/Control Spike Dup Reference Number: _____ Methanol Supplier/Lot #: _____

Notes: _____

PREP WORKSHEET
on 12/7/2010

Prep Batch 35,690

Date Prepped: 12/7/2010

Prepped By:: JTG

Date Entered:

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
	878292	MBS		HEX CHROME QSM SOILSOLID		100	2.5			
	878293	LCSS		HEX CHROME QSM SOILSOLID		100	2.5			
82399	869552			HEX CHROME QSM SOILSOIL		100	2.5		N	
	869553			HEX CHROME QSM SOILSOIL		100	2.5		N	
	869554			HEX CHROME QSM SOILSOIL		100	2.5		N	
	869555			HEX CHROME QSM SOILSOIL		100	2.5		N	
	869556			HEX CHROME QSM SOILSOIL		100	2.5		N	
82424	870188			HEX CHROME QSM SOILSOIL		100	2.5		N	
	870189	*		HEX CHROME QSM SOILSOIL		100	2.5		N	
	870190			HEX CHROME QSM SOILSOIL		100	2.5		N	
	870191			HEX CHROME QSM SOILSOIL		100	2.5		N	
	870192			HEX CHROME QSM SOILSOIL		100	2.5		N	
	870193			HEX CHROME QSM SOILSOIL		100	2.5		N	
	878294	DUP	870189	HEX CHROME QSM SOILSOIL		100	2.5			
	878296	MSS	870189	HEX CHROME QSM SOILSOIL		100	2.5			
	878297	MSS	870189	HEX CHROME QSM SOILSOIL		100	2.5			

Data Validation Checklist

LIMS #: 72278	Method: Hexavalent Chromium- Alkaline digestion SW846-3060A/7196A			
Analysis Date	Analyst / Data Interpreter	Independent Reviewer	Date of Review	Approved
12-6-10 + 12-13-10	JTG / JTG	RD	12/14/10	(YES) ... No

Instructions: Complete one checklist per *(analytical run.* Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section, and may require the initiation of a Nonconformance Report.

Requirement:	Acceptance Criteria	Analyst Review Yes	Analyst Review No	Independent Review Yes	Independent Review No	Comments: (indicate reference to an attachment if necessary)
1. Were the samples analyzed within hold time?	30 days	X		✓		
2. Was the calibration performed using the required number of standards?	Five plus a blank			✓		
3. Is the standard prep log number noted on the analytical report?	---					
3. Was the correlation coefficient acceptable?	>= 0.995					
4. Was the ICV and ICB run immediately after the calibration curve?	---					
5. Was the ICV recovery acceptable?	90 – 110 %					
6. Was the ICB result acceptable?	< LOD					
7. Were the CCV's and the CCB's analyzed at the required frequency?	Per 10 samples					
8. Were the CCV recoveries acceptable?	90 – 110 %					
9. Were the CB results acceptable?	< LOD					
10. Was a LCS ran at the required frequency?	1 per 20 samples					
11. Was the LCS recovery acceptable?	80-120 %					
12. Was the LCS used before the indicated expiration date?	---					
13. Were samples results corrected for sample color affects?						Sample 672089 re-ran w/ spikes
14. Were the MS and MSD prepared at the required frequency?	1per 20 field samples	✓		✓		
15. Were the MS and MSD recoveries acceptable?	Within in house QC limits		X		✓	Less. ss. RPD Fail MS flag 672089
16. Was the RPD between the MS and MSD acceptable?	Within in house QC limits	X		✓		
17. Are all sample on the job lists accounted for?	---	1		✓		

Spec. 401 Accuracy Check / Maintenance Logbook

	*Acceptance Range: +/- 2 nm			
Date/Time	529 nm	742 nm	Analyst	Comments or Performed Maintenance:
12-2-10 1600	530	741	KMB	
12-7-10 1350	530	741	JTG	
12-8-10 1600	530	741	CE	
12-10-10 0950	530	741	JTG	
12-10-10 1400	529	741	CE	
12-13-10 1300	529	741	JTG	

*If values obtained are not within Acceptance Range, correct and document the problem then re-check the accuracy.

Reviewed By:_____

Instrument Run Log

			Instrument ID:	Milton Roy Spectronic 401	Spectrophotometer		
Date	Time Start/End	Analyst	Analytes	Samples Analyzed	Cal Std ID		Comments
10-20-10	1500 - 1530	JTG	COD	71122	Test 02		
10-20-10	1545 - 1630	JTG	Chlor. A	71138	—		
10-21-10	1030 - 1035	JTG	COD	71122	Test 02		
10/26/10	1550-1700	EJC	Cr^{+6}	35227-35228	—		
10-27-10	1530 - 1550	JTG	Chlor. A	71309 thru 71310	—		
10-28-10	1445 - 1500	JTG	Chlor. A	71390	—		
11-1-10	1615 - 1630	JTG	Chlor. A	71425	—		
11-2-10	1545-1615	KWS	COD	71439, 71440	Test 02		
11-5-10	1340-1350	EJC	Chlor A	71528	—		
11-9-10	1420 - 1445	JTG	Chlor A	71609 thru 71630	—		
11-12-10	1400 - 1430	EJC	Cr^{+6}	71721			
11-16-10	1330 - 1340	EJC	COD	71788 + 71789	Test 02		
11-17-10	1640 - 1715	EJC	Chlor A	71858, ~~71857~~ 71857, 71860	—		
11-17-10	1645 - 1700	JTG	Chlor A	71895	—		
11-23-10	1430 - 1545	SMTG	Cr^{+6}	71961 thru 71964	—		
11-24-10	1435 - 1505	EJC	Cr^{+6}	71917	—		
11-30-10	0900 - 1010	EJC	COD	72033, 72033T	Test 02		
11-30-10	1405 - 1430	JTG	Chlor A	72089, 72090	—		
12-7-10	1600 - 1630	KWS	Chl. A	72172, 72173	—		
12-7-10	1330 - 1440	JTG	Cr^{+6}	72177-78	—		

WHEXCHROME Solids QSM Analytical Run
72342 on 12/14/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)		CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
82424	870194		11/9/2010 1220			USACE - LOUISVILLE	RAVENNA	HEX CHROME QSM SOIL		S	**4**	
		DLASS-022-0001-SO							35712			
82424	870195		11/9/2010 1230			USACE - LOUISVILLE	RAVENNA	HEX CHROME QSM SOIL		S	**4**	
		DLASS-022-0003-SO							35712			
82424	870196		11/9/2010 1100			USACE - LOUISVILLE	RAVENNA	HEX CHROME QSM SOIL		S	**4**	
		DLASS-008-0001-SO							35712			
82424	870197		11/9/2010 1030			USACE - LOUISVILLE	RAVENNA	HEX CHROME QSM SOIL		S	**4**	
		DLASS-021-0001-SO							35712			
82424	870208		11/9/2010 1620			USACE - LOUISVILLE	RAVENNA	HEX CHROME QSM SOIL		S	**4**	
		DLASS-029-0001-SO							35712			
82424	870209		11/9/2010 0900			USACE - LOUISVILLE	RAVENNA	HEX CHROME QSM SOIL		S	**4**	
		DLASS-007-0001-SO							35712			
82424	870210		11/9/2010 1000			USACE - LOUISVILLE	RAVENNA	HEX CHROME QSM SOIL		S	**4**	
		DLASS-020-0001-SO							35712			
82424	870211		11/9/2010 1549			USACE - LOUISVILLE	RAVENNA	HEX CHROME QSM SOIL		S	**4**	
		DLASS-028-0001-SO							35712			
82424	870212		11/10/2010 1025			USACE - LOUISVILLE	RAVENNA	HEX CHROME QSM SOIL		S	**4**	
		DLASS-002-0003-SO							35712			
82424	870213		11/9/2010 1630			USACE - LOUISVILLE	RAVENNA	HEX CHROME QSM SOIL		S	**4**	
		DLASS-012-0001-SO							35712			
82424	870214		11/9/2010 1500			USACE - LOUISVILLE	RAVENNA	HEX CHROME QSM SOIL		S	**4**	
		DLASS-025-0001-SO							35712			
82424	870215		11/9/2010 0900			USACE - LOUISVILLE	RAVENNA	HEX CHROME QSM SOIL		S	**4**	
		DLASS-006-0001-SO							35712			
82424	870216		11/9/2010 1458			USACE - LOUISVILLE	RAVENNA	HEX CHROME QSM SOIL		S	**4**	
		DLASS-013-0001-SO							35712			
82743	877664		12/2/2010 1325			USACE - LOUISVILLE	RAVENNA	HEX CHROME QSM SOIL		S	**4**	
		DAASS-041-0001-SO							35712			
82743	877666		12/2/2010 1355			USACE - LOUISVILLE	RAVENNA	HEX CHROME QSM SOIL		S	**4**	
		DAASS-040-0001-SO							35712			
	879010							HEX CHROME QSM SOIL				
				MBS					35712			
	879011							HEX CHROME QSM SOIL				
				LCSS					35712			
	879012		11/9/2010 1220					HEX CHROME QSM SOIL				
		DLASS-022-0001-SO		DUP	870194				35712			
	879013		11/9/2010 1220					HEX CHROME QSM SOIL				
		DLASS-022-0001-SO		MSS	870194				35712			

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

WHEXCHROME Solids QSM Analytical Run
72342 on 12/14/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)		CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	879014		11/9/2010 1220					HEX CHROME QSM SOIL				
		DLASS-022-0001-SO		MSS	870194				35712			
	879720							WHEXCHROME Solids QSM				
				ICV								
	879721							WHEXCHROME Solids QSM				
				ICB								
	879722							WHEXCHROME Solids QSM				
				CCV								
	879723							WHEXCHROME Solids QSM				
				CCV								
	879724							WHEXCHROME Solids QSM				
				CCB								
	879725							WHEXCHROME Solids QSM				
				CCV								
	879726							WHEXCHROME Solids QSM				
				CCB								
	881255							HEX CHROME QSM SOIL				
				PDSS	870194							

28 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

PREP WORKSHEET 2
on 12/8/2010

Prep Batch: 35712

Date Prepped: _____

Dig soln W25231
MgCl2 W22728
Ical W25232
LCS W25308

Sol spike W23660 offline DPC - W25302
Insol spike W17292
PDS W23660 0.1mL
Buffer W23039

Prepped By: _____

Date Entered: _____

Folder #	Order	QC Type	Link	Test	Client Company Name	Client Sample Description	Matrix	Sample Date	Sample Due Date
	879010	MBS 2	0	HEX CHROME QSM			SOLID		
	879011	LCSS 1	0	HEX CHROME QSM			SOLID		
82424 *	870194	3, 4, 5, 6, 7 (Dup Sol Insol PDS)		HEX CHROME QSM	USACE - LOUISVILLE	DLASS-022-0001-SO	SOIL	11/09/2010	11/23/2010
	870195	8		HEX CHROME QSM	USACE - LOUISVILLE	DLASS-022-0003-SO	SOIL	11/09/2010	11/23/2010
	870196	9		HEX CHROME QSM	USACE - LOUISVILLE	DLASS-008-0001-SO	SOIL	11/09/2010	11/23/2010
	870197	10		HEX CHROME QSM	USACE - LOUISVILLE	DLASS-021-0001-SO	SOIL	11/09/2010	11/23/2010
	870208	11		HEX CHROME QSM	USACE - LOUISVILLE	DLASS-029-0001-SO	SOIL	11/09/2010	11/23/2010
	870209	12		HEX CHROME QSM	USACE - LOUISVILLE	DLASS-007-0001-SO	SOIL	11/09/2010	11/23/2010
	870210	13		HEX CHROME QSM	USACE - LOUISVILLE	DLASS-020-0001-SO	SOIL	11/09/2010	11/23/2010
	870211	14		HEX CHROME QSM	USACE - LOUISVILLE	DLASS-028-0001-SO	SOIL	11/09/2010	11/23/2010
	870212	15		HEX CHROME QSM	USACE - LOUISVILLE	DLASS-002-0003-SO	SOIL	11/10/2010	11/23/2010
	870213	16		HEX CHROME QSM	USACE - LOUISVILLE	DLASS-012-0001-SO	SOIL	11/09/2010	11/23/2010
	870214	17		HEX CHROME QSM	USACE - LOUISVILLE	DLASS-025-0001-SO	SOIL	11/09/2010	11/23/2010
	870215	18		HEX CHROME QSM	USACE - LOUISVILLE	DLASS-006-0001-SO	SOIL	11/09/2010	11/23/2010
	870216	19		HEX CHROME QSM	USACE - LOUISVILLE	DLASS-013-0001-SO	SOIL	11/09/2010	11/23/2010
82743	877664	20		HEX CHROME QSM	USACE - LOUISVILLE	ASTU5-MI-B	SOIL	12/02/2010	12/15/2010
	877666	21		HEX CHROME QSM	USACE - LOUISVILLE	ASTU5-MI-S	SOIL	12/02/2010	12/15/2010

PREP WORKSHEET 2
on 12/8/2010

Folder #	Order	QC Type	Link	Test	Client Company Name	Client Sample Description	Matrix	Sample Date	Sample Due Date
	879012	DUP	870194	HEX CHROME QSM		DLASS-022-0001-SO	SOIL	11/09/2010	
	879013	MSS	870194	HEX CHROME QSM		DLASS-022-0001-SO	SOIL	11/09/2010	
	879014	MSS	870194	HEX CHROME QSM		DLASS-022-0001-SO	SOIL	11/09/2010	
	879015	MSS	870194	HEX CHROME QSM		DLASS-022-0001-SO	SOIL	11/09/2010	

Control Spike/Control Spike Dup Reference Number:_____ Methanol Supplier/Lot #:_____

Notes:_____

MDL Study 22-29 W25303

Distibution: C:\LIMSREPS\PREPWRKSHT2.RPT

PREP WORKSHEET
on 12/8/2010

Prep Batch **35,712**

Date Prepped: 12/8/2010

Prepped By:: CES

Date Entered:

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
	879010	MBS		HEX CHROME QSM SOILSOLID		100	2.5			
	879011	LCSS		HEX CHROME QSM SOILSOLID		100	2.5			
82424	870194			HEX CHROME QSM SOILSOIL		100	2.5		N	
	870195			HEX CHROME QSM SOILSOIL		100	2.5		N	
	870196			HEX CHROME QSM SOILSOIL		100	2.5		N	
	870197			HEX CHROME QSM SOILSOIL		100	2.5		N	
	870208			HEX CHROME QSM SOILSOIL		100	2.5		N	
	870209			HEX CHROME QSM SOILSOIL		100	2.5		N	
	870210			HEX CHROME QSM SOILSOIL		100	2.5		N	
	870211			HEX CHROME QSM SOILSOIL		100	2.5		N	
	870212			HEX CHROME QSM SOILSOIL		100	2.5		N	
	870213			HEX CHROME QSM SOILSOIL		100	2.5		N	
	870214			HEX CHROME QSM SOILSOIL		100	2.5		N	
	870215			HEX CHROME QSM SOILSOIL		100	2.5		N	
	870216			HEX CHROME QSM SOILSOIL		100	2.5		N	
82743	877664			HEX CHROME QSM SOILSOIL		100	2.5		N	
	877666			HEX CHROME QSM SOILSOIL		100	2.5		N	

PREP WORKSHEET
on 12/8/2010

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
	879012	DUP	870194	HEX CHROME QSM SOIL	SOIL	100	2.5			
	879013	MSS	870194	HEX CHROME QSM SOIL	SOIL	100	2.5			
	879014	MSS	870194	HEX CHROME QSM SOIL	SOIL	100	2.5			
	879015	MSS	870194	HEX CHROME QSM SOIL	SOIL	100	2.5			

Control Spike/Control Spike Dup Reference Number:_____ Methanol Supplier/Lot #:_____

Notes:_____

Distibution: C:\LIMSREPS\PREPWRKSHT.RPT

Data Validation Checklist

LIMS #: 12342	Method: Hexavalent Chromium- Alkaline digestion SW846-3060A/7196A			
Analysis Date	Analyst / Data Interpreter	Independent Reviewer	Date of Review	Approved
12/6/10	CES/CEE	RD	12/14/10	Yes / No

Instructions: Complete one checklist per *analytical run*. Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section, and may require the initiation of a Nonconformance Report.

Requirement:	Acceptance Criteria	Analyst Review Yes	Analyst Review No	Independent Review Yes	Independent Review No	Comments: (indicate reference to an attachment if necessary)
1. Were the samples analyzed within hold time?	30 days	X		✓		
2. Was the calibration performed using the required number of standards?	Five plus a blank	X				
3. Is the standard prep log number noted on the analytical report?	---	X				
3. Was the correlation coefficient acceptable?	>=0.995	X				
4. Were the ICV and ICB run immediately after the calibration curve?	---	X				
5. Was the ICV recovery acceptable?	90-110%	X				
6. Was the ICB result acceptable?	<LOD	X				
7. Were the CCV's and the CCB's analyzed at the required frequency?	1per 10 samples	X				
8. Were the CCV recoveries acceptable?	90-110 %	X				
9. Were the CB results acceptable?	<LOD	X				
10. Was a LCS ran at the required frequency?	1 per 20 samples	X				
11. Was the LCS recovery acceptable?	80-120 %	X				
12, Was the LCS used before the indicated expiration date?	---	X				
13. Were samples results corrected for sample color affects?		X				
14. Were the MS and MSD prepared at the required frequency?	1per 20 per matrix	X		✓		
15. Were the MS and MSD recoveries acceptable?	Within in house QC limits		X		✓	Sol ~ insol spike. Filtrate low supern no flag
16. Was the RPD between the MS and MSD acceptable?	Within in house QC limits	X		✓		
17. Are all sample on the job lists accounted for?	---	X		✓		

Spec. 401 Accuracy Check / Maintenance Logbook

	*Acceptance Range: +/- 2 nm			
Date/Time	529 nm	742 nm	Analyst	Comments or Performed Maintenance:
12-2-10 1600	530	741	KMB	
12-7-10 1350	530	741	JTG	
12-8-10 1600	530	741	CE	
12-10-10 0950	530	741	JTG	
12-10-10 1400	529	741	CE	
12-13-10 1300	529	741	JTG	

*If values obtained are not within Acceptance Range, correct and document the problem then re-check the accuracy.

Reviewed By:_____

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Instrument Run Log

			Instrument ID:	Milton Roy Spectronic 401	Spectrophotometer		
Date	Time Start/End	Analyst	Analytes	Samples Analyzed	Cal Std ID	Comments	
12-8-10	1600 / 1700	CES	Cr^{+6}	72348	—		
12-10-10	0950 - 1035	JTG	COD	Test 02 ←→ 72376, 72377			
12-10-10 CES 12/10/10	~~1200 1400-15 1600-1647~~	CES	microbp.	72404, 72405	—		
12-13-10	1300 - 1330	JTG	Cr^{+6}	72278	—		

W24656 EJC 9/13/10 Alk ICAL/CCV stock std 2500 mg/L: Into a 500 mL vol. dissolved 1.325 g Na_2CO_3 W21099 & brought to vol. w/ CO_2 free DI H_2O exp: 10/13/10

W24657 EJC 9/13/10 Alk ICAL: pipetted W24656 & to vol. w/ CO_2 free DI H_2O exp: 10/13/10

		100
A	30	
B	25	
C	20	
D	15	
E	10	
F	5	
G	3	
H	1	
I	0	

W24658 EJC 9/13/10 KHP Buffer: Into a beaker dissolved 2.5 g KHP W19521 into 450 mL CO_2 free DI H_2O & volumetrically added 42.5 mL 0.1M HCl W23371 & adjusted pH to 3.1 ± 0.05 exp: 9/20/10

W24659 EJC 9/13/10 Methyl Oarnge soln: Into a 1L vol. volumetrically added 100 mL methyl ocrnge W23178 & brought to vol. w/ CO_2 free DI H_2O exp: 10/13/10

W24660 KMB 9-13-10 NH_3 LCS - Into a 500 mL VF pipetted 2.5 mL W24652 and BTV w/ DI H_2O. X: 9-20-10

W24661 JTB 9-13-10 TOCS LOD ~~W24491~~ JTB 9-13-10: into a weigh boat added 41 mg Dextrose ~~W24491~~ W23772 JTB 9-13-10

W24662 JTB 9-13-10 TOCS LOQ: into a weigh boat added 43 mg Dextrose ~~W24491~~ W23772 JTB 9-13-10

W24663 EJC 9/13/10 Phenol Mallinckrodt Chemicals Cat# 0025-04 Lot# H20589 exp: 9/13/11

W24664 EJC 9/13/10 Ascorbic Reagent: Into a 500 mL vol. dissolved 30 g Ascbic W29361 + 0.5 g SDS W23748 & filled to vol. w/ DI H_2O exp: 9/14/10

Continued on Page

Read and Understood By

Signed Date Signed Date

W24145 EJC 7/7/10 — 2 N HCL: Into a 500mL vol. volumetrically added 83.5mL HCl W23543 + brought to vol. w/ Milli Q H_2O exp: 7/7/11

W24146 EJC 7/7/10 — 25% Phosphoric Acid: Into a 500mL vol. volumetrically added 125mL Phosphoric Acid W22080 + brought to vol. w/ Milli Q H_2O exp 7/7/11

W24147 ES 7/7/10 — LL LOQW Working - Into a 100mL vol pipetted 1mL NO_2 W22679 + 1mL W22939 + filled to vol w/ milliQ H_2O exp 7/8/10 TV = 10mg/L

W24148 ES 7/7/10 — LL LOQW - Into a 100mL vol pipetted 0.34mL W24147 + filled to vol w/ milliQ H_2O exp 7/8/10 TV = 0.034mg/L

Continued on Page

Read and Understood By

Signed | Date | Signed | Date

W23771 CE NH_3 (H_2O) LOQ check - Into a 100mL vol pipetted 0.016mL
5/12/10 W21863 - filled to vol w/ H_2SO_4 dilut W23710. exp 5/12/10

W23772 mwl Dextrose, Anhydrous lot# K40352008 cat# DX0145-11
5/12/10 CMD

W23773 CE H_2SO_4 Dilut - Into a 2L Wlumetrically added
5/12/10 4mL H_2SO_4 W23910 - filled to vol w/ DI H_2O. 6/12/10 exp

W23774 CE Phenolate color reagent - Into a 500mL vol dissolved
5/12/10 16g NaOH W23614, 7 volumetrials added 94mL
three W22610 - filled to vol w/ DI H_2O exp 5/19/10

W23775 mwl TOCS LOD check: into a weigh boat added ≈ 1mg Dextrose
5/12/10 W23192

W23776 mwl TOCS LOQ check into a weigh boat added ≈ 3mg
5/12/10 Dextrose W23192

5-13-10 MWD W23777 MWD Cr^{+6} LODW (8ug/L) - Into a 100mL vol. pipetted 0.08mL
~~5-12-10~~ 5-13-10 W23663 3 brought to vol. w/ DI H_2O. exp. 4-29-11

5-13-10 MWD W23778 MWD Cr^{+6} LOQW (25ug/L) - Into a 100mL vol. pipetted 0.25mL
~~5-12-10~~ 5-13-10 W23663 3 brought to vol. w/ DI H_2O. exp. 4-29-11

5/13/10 CE

Continued on Page

Read and Understood By

Signed Date Signed Date

W23189 CES 2/18/10 CN Ical working - Into a 100mL vol pipetted 1mL W23074 2 filled to vol w/ 0.25N NaOH W23139. prepped 2/17/10

W23190 CES 2/18/10 CN Ical using W23189 2 filled to vol w/ W23139. prepped 2/17/10

~~2mL → 100 = 200 µg/L~~ CES 2/18/10

2mL → 200 = 100 µg/L

0.5mL → 100 = 50 µg/L

using the 100 µg/L std

30mL → 100 = 30 µg/L

10mL → 50 = 20 µg/L

5mL → 50 = 10 µg/L

W23192 mix Dextrose (D-Glucose) Anhydrous Fisher cat# D16-500 2/18/10 lot# 090078 exp 2/18/15

W23193 CES 2/18/10 Tc MDLw study - Into 8 100mL vol. pipetted 0.3mL W23086 & filled to vol w/ milliQ H2O. TV = 3.0 mg/L prepped 2/17/10 CES

W23194 CES 2/18/10 Sulfide LCS. Into a 200mL vol pipetted 1mL W23004 & filled to vol w/ dI H2O.

Continued on Page

Read and Understood By

Signed Date Signed Date

Notebook No. _____ 31

PROJECT _____ Continued From Page _____

W22924 mul TOCS LOD/MDL check into a weigh boat added ≈ 1mg
1/14/10 Dextrose W12491

*W22925 mul TOCS MRL/LOQ check into a weigh boat added ≈ 3mg
1/14/10 Dextrose W12491

*W22926 CES pH Buffer 4 - J.T. Baker cat # 5657-03 lot # H39504
1/15/10 exp 10/31/11

*W22927 CES pH Buffer 7 - J.T. Baker cat # 5656-03 lot # H44504
1/15/10 exp 11/30/11

*W22928 ESC TKN/TPhos LOQW: Into a 100mL vol. pipetted 0.04mL
~~1/16/10~~ 1/15/10 ESC 1/15/10 TKN/NH_3 LCS stock ~~W22715~~ W22929 ESC 1/16/10 + 0.05mL TPhos LCS stock W20988. True value = 0.4mg/L N + 0.5mg/L P
+filled to vol. w/ DI H_2O

*W22929 ESC TKN/NH_3 LCS stock 1000mg/L: Into a 1L vol.
~~1/16/10~~ 1/15/10 ESC 1/15/10 dissolved 3.819g NH_4Cl W18892 + pipetted 2mL ESC ~~1/15/10~~ 2/15/10 1/15/10
H_2SO_4 W22816 + brought to vol. w/ DI H_2O exp ~~2/14/10~~

*W22930 ESC TKN/TPhos LOQW✓: Into a 100mL vol. pipetted
1/15/10 0.13mL W22929 + 0.16mL W20988 + filled to vol.
w/ DI H_2O. true value = 1.3mg/L N + 1.6 mg/L P

W22931 ESC ESC 1/15/10 TKN/~~TP~~ MDLW✓: Into a 100mL vol. pipetted 0.04mL
1/15/10 W22929 + filled to vol. w/ DI H_2O. true value = 0.4mg/L N

Continued on Page

Read and Understood By

Signed _____ Date _____ Signed _____ Date _____

W22074 ESC 8/26/09 NH_3 LOQS ✓: Into a 100mL vol. 4.6mL W22055 was pipetted + brought to vol. w/ KCL extraction soln W22076 true value = 0.23

W22075 ESC 8/26/09 NH_3 LCSS: Into a 100mL vol 0.5mL W22007 was pipetted + brought to vol. w/ KCL extraction soln. W22076

W22076 ESC 8/26/09 KCL Extraction Soln: Into a 1L 150g KCL W20236 was dissolved + brought to vol. w/ DI H_2O exp: 9/26/09

W22077 ESC 8/26/09 NH_3 Hypochlorite: Into a beaker 150mL Bleach W21850 + 150mL DI H_2O were volumetrically added exp: 8/27/09

W22078 CES 8/26/09 25% ophos Acid - Into a 500mL vol volumetrically added 125mL phosphoric acid W20403 & filled to vol w/ DI H_2O.

W22079 ESC 8/26/09 Potassium Chloride: Fisher Cat # P217-500 Lot # 073552 recieved 12/22/08

W22080 CES 8/26/09 Phosphoric Acid - JT Baker cat # 0260-04 Lot # T01806.

W22081 ESC 8/26/09 CN LCS Working Std: Into a 100mL vol. pipetted 1mL W21585 + filled to vol. w/ 0.25 NaOH W21922

W22082 ESC 8/26/09 CN LCS: Into a 200mL vol. 2mL W22081 was pipetted + brought to vol. w/ 0.25 NaOH W21922

Continued on Page

Read and Understood By

Signed	Date	Signed	Date

WNITRICELLULOSE IC Analytical Run
72420 on 12/13/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	ANALYTE	SAMPLE DATE:		QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	880434							WNITRICELLULOSE IC				
		Nitrocellulose			CCV							
	878498							NITROCELLULOSE				
		Nitrocellulose			LCSS				35693			
	878497							NITROCELLULOSE				
		Nitrocellulose			MBS				35693			
82424	870189		11/10/2010	1015		USACE - LOUISVILLE	RAVENNA	NITROCELLULOSE		S	**4**	
		Nitrocellulose			*				35693			
	878499		11/10/2010	1015				NITROCELLULOSE				
		Nitrocellulose			MSS	870189			35693			
	878500		11/10/2010	1015				NITROCELLULOSE				
		Nitrocellulose			MSDS	878499			35693			
82424	870194		11/9/2010	1220		USACE - LOUISVILLE	RAVENNA	NITROCELLULOSE		S	**4**	
		Nitrocellulose							35693			
82424	870195		11/9/2010	1230		USACE - LOUISVILLE	RAVENNA	NITROCELLULOSE		S	**4**	
		Nitrocellulose							35693			
82424	870201		11/9/2010	1525		USACE - LOUISVILLE	RAVENNA	NITROCELLULOSE		S	**4**	
		Nitrocellulose			*				35693			
82424	870203		11/9/2010	1535		USACE - LOUISVILLE	RAVENNA	NITROCELLULOSE		S	**4**	
		Nitrocellulose							35693			
82424	870212		11/10/2010	1025		USACE - LOUISVILLE	RAVENNA	NITROCELLULOSE		S	**4**	
		Nitrocellulose							35693			
	871184		11/11/2010	0900				NITROCELLULOSE		S	**4**	
		Nitrocellulose							35693			

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

WNITRICELLULOSE IC Analytical Run
72420 on 12/13/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	ANALYTE	SAMPLE DATE:		QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	880435							WNITRICELLULOSE IC				
		Nitrocellulose			CCV							
	880436							WNITRICELLULOSE IC				
		Nitrocellulose			CCB							
	871186		11/11/2010	1230				NITROCELLULOSE		S	**4**	
		Nitrocellulose							35693			
	871197		11/11/2010	1220				NITROCELLULOSE		S	**4**	
		Nitrocellulose							35693			
	871198		11/11/2010	0900				NITROCELLULOSE		S	**4**	
		Nitrocellulose							35693			
	880437							WNITRICELLULOSE IC				
		Nitrocellulose			CCV							
	880438							WNITRICELLULOSE IC				
		Nitrocellulose			CCB							

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Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

PREP WORKSHEET

PREP WORKSHEET
on 12/10/2010

Prep Batch 35,693

Prepped By: BMS

Date Prepped: 12/8/2010

Date Entered:

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
	878497	MBS		NITROCELLULOSE	SOLID	25.0	10.00			
	878498	LCSS		NITROCELLULOSE	SOLID	25.0	10.00			
82424	870189	*		NITROCELLULOSE	SOIL	25.0	10.00		N	
	870194			NITROCELLULOSE	SOIL	25.0	10.00		N	
	870195			NITROCELLULOSE	SOIL	25.0	10.00		N	
	870201	*		NITROCELLULOSE	SOIL	25.0	10.00		N	
	870203			NITROCELLULOSE	SOIL	25.0	10.00		N	
	870212			NITROCELLULOSE	SOIL	25.0	10.00		N	
	871184			NITROCELLULOSE	SOIL	25.0	10.00		N	
	871186			NITROCELLULOSE	SOIL	25.0	10.00		N	
	871197			NITROCELLULOSE	SOIL	25.0	10.00		N	
	871198			NITROCELLULOSE	SOIL	25.0	10.00		N	
	878499	MSS	870189	NITROCELLULOSE	SOIL	25.0	10.00			
	878500	MSDS	878499	NITROCELLULOSE	SOIL	25.0	10.00			

Control Spike/Control Spike Dup Reference Number:_____ Methanol Supplier/Lot #:_____

Notes:_____

PREP WORKSHEET

PREP WORKSHEET
on 12/7/2010

Prep Batch 35,693

Prepped By: _____

Date Prepped: _____

Date Entered: _____

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
	878497	MBS		NITROCELLULOSE	SOLID					
	878498	LCSS		NITROCELLULOSE	SOLID					
82424	870189	*		NITROCELLULOSE	SOIL				N	
	870194			NITROCELLULOSE	SOIL				N	
	870195			NITROCELLULOSE	SOIL				N	
	870201	*		NITROCELLULOSE	SOIL				N	
	870203			NITROCELLULOSE	SOIL				N	
	870212			NITROCELLULOSE	SOIL				N	
	871184			NITROCELLULOSE	SOIL				N	
	871186			NITROCELLULOSE	SOIL				N	
	871197			NITROCELLULOSE	SOIL				N	
	871198			NITROCELLULOSE	SOIL				N	
	878499	MSS	870189	NITROCELLULOSE	SOIL					
	878500	MSDS	878499	NITROCELLULOSE	SOIL					

LCSS = Spiked 10g silica sand with 1.0 mL of VOC-04 3538

MS/MSD (870189) = Spiked 10.00g sample with 1.0 mL of VOC-04 3538

Control Spike/Control Spike Dup Reference Number: VOC-04 3538

Methanol Supplier/Lot #: Fisher / 093277

Acetone Supplier/Lot #: JT Baker / JJME52

Notes: _____

PREP WORKSHEET

PREP WORKSHEET
on 12/10/2010

Prep Batch 35,693

Prepped By: BMS

Date Prepped: 12/8/2010

Date Entered:

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
	878497	MBS		NITROCELLULOSE	SOLID	25.0	10.00			
	878498	LCSS		NITROCELLULOSE	SOLID	25.0	10.00			
82424	870189	*		NITROCELLULOSE	SOIL	25.0	10.00		N	
	870194			NITROCELLULOSE	SOIL	25.0	10.00		N	
	870195			NITROCELLULOSE	SOIL	25.0	10.00		N	
	870201	*		NITROCELLULOSE	SOIL	25.0	10.00		N	
	870203			NITROCELLULOSE	SOIL	25.0	10.00		N	
	870212			NITROCELLULOSE	SOIL	25.0	10.00		N	
	871184			NITROCELLULOSE	SOIL	25.0	10.00		N	
	871186			NITROCELLULOSE	SOIL	25.0	10.00		N	
	871197			NITROCELLULOSE	SOIL	25.0	10.00		N	
	871198			NITROCELLULOSE	SOIL	25.0	10.00		N	
	878499	MSS	870189	NITROCELLULOSE	SOIL	25.0	10.00			
	878500	MSDS	878499	NITROCELLULOSE	SOIL	25.0	10.00			

Control Spike/Control Spike Dup Reference Number:_____ Methanol Supplier/Lot #:_____

Notes:_____

PREP WORKSHEET
on 12/7/2010

Prep Batch 35,693

Prepped By: _____

Date Prepped: _____

Date Entered: _____

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
	878497	MBS		NITROCELLULOSE	SOLID					
	878498	LCSS		NITROCELLULOSE	SOLID					
82424	870189	*		NITROCELLULOSE	SOIL				N	
	870194			NITROCELLULOSE	SOIL				N	
	870195			NITROCELLULOSE	SOIL				N	
	870201	*		NITROCELLULOSE	SOIL				N	
	870203			NITROCELLULOSE	SOIL				N	
	870212			NITROCELLULOSE	SOIL				N	
	871184			NITROCELLULOSE	SOIL				N	
	871186			NITROCELLULOSE	SOIL				N	
	871197			NITROCELLULOSE	SOIL				N	
	871198			NITROCELLULOSE	SOIL				N	
	878499	MSS	870189	NITROCELLULOSE	SOIL					
	878500	MSDS	878499	NITROCELLULOSE	SOIL					

LCSS = Spiked 10g silica sand with 1.0 mL of VOC-04 3538

MS/MSD (870189) = Spiked 10.00g sample with 1.0 mL of VOC-04 3538

Control Spike/Control Spike Dup Reference Number: VOC-04 3538

Methanol Supplier/Lot #: Fisher / 093277

Acetone Supplier/Lot #: JT Baker / JJME52

Notes: _____

Data Validation Checklist

LIMS #: 72-420, 72-421	Method: Nitrocellulose by Ion Chromatography (Nitrite & Nitrate)			
Analysis Date	Analyst / Data Interpreter	Independent Reviewer	Date of Review	Approved
12/11-17/11	BMS / RD	RD	12/16/11	Yes ... No

Instructions: Complete one checklist per *analytical run*. Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section, and may require the initiation of a Nonconformance Report.

Requirement:	Acceptance Criteria	Analyst Review		Independent Review		Comments: (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
1. Was the calibration performed using the required number of standards?	Minimum three plus a blank	✓		✓		
2. Is the standard prep log number noted on the analytical report bench sheet?	---	✓		✓		
3. Was the correlation coefficient acceptable?	≥ .995	✓		✓		
4. Were the ICV and ICB run immediately after the calibration check standard?	---	✓		✓		
5. Was the ICV recovery acceptable?	90–110 % or contract/program specific	✓		✓		
6. Was the ICB result acceptable?	< LOD or contract/program specific	✓		✓		
7. Were the CCV's and the CCB's analyzed at the required frequency?	1 / 10 samples or contract/program specific	✓		✓		
8. Were the CCV recoveries acceptable?	90–110 % or contract/program specific	✓		✓		
9. Were the CCB results acceptable?	< LOD or program/project specific	✓		✓		
10. Was the MB analyzed at the required frequency?	1 / 20 samples or contract/program specific	✓		✓		
I L. Were the MB results acceptable?	< LOD or contract/program specific	✓		✓		
12. Was a LCS run at the required frequency?	1 / 20 samples or contract/program specific	✓		✓		
13. Was the LCS recovery acceptable?	Within in-house or contract/program specific limits	✓		✓		
14. Was the MS and/or MSD (when required) prepared at the required frequency?	1per 20 samples per matrix or contract/program specific	✓		✓		

15. Was the MS (and/or MSD) recovery acceptable?	Within In-house or contract/program specific limits	✓		✓		
16. If applicable was the RPD between the MS and MSD acceptable?	Within in house or contract/program specific limits	✓		✓		
17. Was a sample duplicate prepared at the required frequency?	Contract/program specific or 1 per 20 samples (1 / 10 for SDWA samples)	NA		NA		
18. Was the duplicate within precision limits?	Within in-house or contract/program specific limits	1		1		
19. Were all chromatograms checked to ensure accurate peak identification?	---	✓		✓		
20. Are all samples on the job lists accounted for?	---	✓		✓		

DX120 Run Log

Start Date	Start Time	End Date	End Time	Analyst	LIMs Run #	System (1 or 2)	Calibration ID #	Data File	COMMENTS (Spike ID #s)	Total Gondot-wtr	Pressure (PSI)	Flow (mL/min)	New Calibration Info	
12-6-10	1112	12-6-10	2019	EJC	72238, 72239	1	W25099 IFA	D610	BOS W25063	123.58	1216	0.81	System 1: Calib. (ID/Date)	W25331B 12/16/10
12-6-10	1515	12-7-10	0002	EJC	72272, 72274	2	W24955	72272	031 W25065	18.782	1539	1.01	Flow (mL/min) Press. (psi)	0.91 1520
12-7-10	1116	12-7-10	2324	EJC	72291, 72310, 72279	2	W24955/P	72291		19.449	1561	1.01	Analyte	Ret. Time
12-9-10	0945	12-9-10	1316	EJC	72365	2	W24955	72365		18.54	1550	1.01	Fluoride	3.50
12-10-10	10:57	12-10-10	13:50	CES	72461	1	W24958	72461	W25297 W25073	18.38	1408	0.91	Chloride	4.72
12-10-10	11:08	12-11-10	02:43	CES	72400, 72402, 403	2	W24955/P	72400	W25297 W25069	18.26	1548	1.00	Nitrite	5.55
12-11-10	12:00	12-11-10	12:58	MW		2	W24955	D610		18.03	1575	1.00	Bromide	6.83
12-11-10	19:29	12-12-10	04:00	RD	72420 + 72421	2	W24955	72420	VOC 03538	18.285	1572	1.00	Nitrate	7.87
12-13-10	0957	12-13-10	1943	CES	72438, 44 439, 450	2	W24955	72438	W25297 W25069	18.545	1551	1.01	o-Phos.	9.97
12-14-10	1257	12-14-10	1847	CES	MDL Std. LL W25329	1	LL W24958/ LL W25329	LL W25329	W25297 W25174	18.56	1464	0.91	Sulfate	12.28
12-14-10	1102	12-14-10	2043	CES	72471, 72472 W25331B	2	W24955	72471	W25297 W25174	18.195	1563	1.01	System 2 Calib. (ID/Date)	W25331B 12/14/10
12-15-10	0839	12-15-10	1830	CES	72519, 72477 72519	2	W25331B	72477		18.31	1553	1.01	Flow (mL/min) Press. (psi)	1.01 1553
12/15/10	1054	12/15/10	1346	CES	LL MDL Std	1	LL W25329	MDL Std	—	18.06	1433	0.91	Analyte	Ret. Time
12-16-10	1059	12-16-10	1227	KMB	MDL Z LL	1	LL W25329	12610	NA	18.113	1408	0.91	Fluoride	3.35
12-16-10	1164	12-16-10	2358	KMB	72541, 72540 72552	2	W25331B	72541	W25297 + W25360	18.079	1543	1.01	Chloride	4.47
12-16-10	1536	12-16-10	1942	KMB	72470	1	W25331 W25331 EJC	W25331 12/14/10	—	18.8	1520	0.91	Nitrite	5.22
12-17-10	13:33	12-18-10	02:15	EJC	72584+72585	1	W25331B ESC 12/14/10	72584	W25297 + W25360	18.816	1434	0.91	Bromide	6.42
12-17-10	17:24	12-18-10	03:15	ESC	72593	2	W25331B/P	72593		18336	1618	1.00	Nitrate	7.33
12-19-10	07:43	12-19-10	17:28	RD	72523 + 72524	2	W25331B	72523	VOC 04353	18.353	1585	1.01	o-Phos.	9.25
12-20-10	1107			KMB	72599, 72602 72593	2	W25331B	72599	W25297 W25360	18.343	1574	1.01	Sulfate	11.07

Reviewed By: _____ stopped around 1912 12/20/10 SGL 12/21/10 CES

W25355 EJC 12/16/10 Phenol ICAL: Into a 100mL vol. pipetted 10mL W25354 & brought to vol. w/ DI H_2O exp: 12/23/10 tv = 1000 mg/L

W25356 EJC 12/16/10 Phenol CCV: Into a 200mL vol. pipetted 0.1mL W22840 & brought to vol. w/ DI H_2O exp: 12/23/10 tv = 500mg/L

W25357 EJC 12/16/10 Phenol MDLWV: Into a 50mL vol. pipetted 0.75mL ~~W25354~~ W25355 & brought to vol. w/ DI H_2O exp: 12/23/10 tv = 15mg/L EJC 12/16/10

W25358 EJC 12/16/10 Phenol MDLS study: Into ~~a~~ 8 EJC 12/16/10 seperate 100mL vol.s pipetted 1.5mL ~~W25354~~ W25355 & brought to vol. w/ DI H_2O exp: 12/23/10 tv = 15mg/L = 0.150 mg/kg

W25359 EJC 12/16/10 Phenol MDLS ✓: Into a 50mL vol. pipetted 0.5mL ~~W25354~~ W25355 & brought to vol. w/ DI H_2O exp: 12/23/10 tv = 10mg/L EJC 12/16/10

* W25360 KMB 12-16-10 IC Mixed Spike - Into a 100mL VF pipetted 6.4mL 1000mg/L Br^- W23469, NO_3^- W22939, PO_4^- W23289, 25.6mL Cl^- W24670 SO_4^- W23936 and BTV w/ Milli Q H_2O. Exp. 1-16-11

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Read and Understood By

Signed Date Signed Date

W25344 JTR 12-16-10 — TOCs MDL study: into 8 weigh boats added ≈ 2mg Dextrose W23193

W25345 JTR 12-16-10 — TOCs MDL ✓: into a weigh boat added ≈ 1mg Dextrose W23192

W25346 KMB 12-16-10 — LL IC MDL ✓ - Into a 100 mL VF pipetted 0.02mL W25174, W25173, W25172 and BTV w/ Milli Q H_2O. Exp. 12-15-10 TV = PO_4^- 0.006 mg/L NO_2^- 0.01 mg/L NO_3^- 0.01 mg/L.

W25347 KMB 12-16-10 — NH_3 Hypochlorite - Into a flask volumetrically combined 150mL Bleach W24747 and 150 mL DI H_2O, mixed well. exp 12-17-10 ~~12-17-10~~ KMB 12-16-10

W25348 KMB 12-16-10 — NH_3 H_2SO_4 ICAL - Into a 100 mL VF pipetted 0.25 mL W24182 and BTV w/ Diluent W25349. Exp. 12-23-10 ~~12-17-10~~ KMB 12-16-10

W25349 KMB 12-16-10 — NH_3 H_2SO_4 Diluent - Into a 2L VF pipetted 4mL H_2SO_4 W24986 and BTV w/ DI H_2O. Exp. 1-16-10

W25350 KMB 12-16-10 — NH_3 H_2SO_4 LCS - Into a 100mL VF

W25351 KMB 12-16-10 — NH_3 H_2SO_4 CCV - Into a 100mL VF

W25352 KMB 12-16-10 — NH_3 H_2SO_4 MDL ✓ - Into a 100mL VF pipetted 1 mL ~~W25350~~ W25348 and BTV w/ Diluent W25349. Exp. 12-23-10 TV = 0.025 mg/L KMB 12-16-10

W25353 ESC 12/16/10 — Phenol LCS: Into a 200mL vol. pipetted 0.1mL W21956 & brought to vol. w/ DI H_2O exp: 12/23/10 tv = 500mg/L

W25354 ESC 12/16/10 — Phenol ICAL working: Into a 100mL vol. pipetted 1mL W22840 & brought to vol. w/ DI H_2O exp: 12/23/10 tv = 10,000 mg/L

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Signed | Date | Signed | Date

W25335 CES 12/14/10 — IC LOQW- Into a 200mL vol pipetted 0.04mL Br W23469, 0.64mL Cl W24670, 0.04mL F W24612, 0.09mL NO_3 W22939, 0.04mL NO_2 W25160, 0.088mL ophos W23289, 1.12mL SO_4 W23936, refilled to vol w/ milliQ H_2O. exp 12/16/10

W25336 JTB 12-15-10 — NH_3 Soil MDL Study: into 8 50mL VF pipetted 0.005mL W25114 & BTV w/ DI H_2O. exp 12-16-10

W25337 JTB 12-15-10 — NH_3 Soil MOL ✓: into a 50mL VF pipetted 0.01mL W25114 & BTV w/ DI H_2O. exp: 12-16-10

W25338 KMB 12-15-10 — NH_3 Hypochlorite- Volumetrically combined 150mL Bleach W24747 and 150mL DI H_2O and mixed well. Exp. 12-16-10

W25339 KMB 12-15-10 — NH_3 Buffer- Into a 500mL VF dissolved 25mL EDTA W25196 and volumetrically added 112.5mL 1N NaOH W25197 and BTV w/ DI H_2O. Exp. 1-15-11

W25340 KMB 12-15-10 — NH_3 ICAL Std. Prep Using W24182 BTV w/ Diluent W25253

A	0.4mL	→ 50mL
B	0.2mL	
C	0.1mL	
D	0.05mL	
E	0.025mL	
F	0.01mL	→ 100mL
G	0	→ 50mL

Exp. 12-22-10

W25341 JTB 12-15-10 — TS LOQ H_2O: into a 100mL VF pipetted 5mL W25156 & BTV w/ DI H_2O. exp: 12-16-10

W25342 CES 12/15/10 — LOQW- Into a 100mL vol pipetted 0.6mL W25397 + 0.04mL F W24612, 0.01mL Br W23469 - filled to vol w/ milliQ H_2O exp 12/16/10

W25343 KMB 12/15/10 — Phenolate- Into a 500mL VF dissolved 16g NaOH W24679 and vol. added 44mL Phenol W24663 BTV w/ DI H_2O. Exp. 12-22-10.

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Read and Understood By

Signed | Date | Signed | Date

W25327 CES
12/14/10
IC LL NO_2+NO_3 working - Into a 100mL vol pipette 5mL of 1000 mg/L NO_2 W25160 + NO_3 W22934 - filled to vol w/ milliQ H_2O - exp 12/16/10 Tm 50mg/L

W25328 CES
12/14/10
IC LL Ophos working - Into a 100mL vol pipette 5mL W23289 - filled to vol w/ milliQ H_2O exp 12/16/10 TM 5mg/L

W25329 CES
12/14/10
IC LL Incal - To vol w/ milliQ H_2O. Exp 12/16/10

level	1	2	3	4	5	6	7	8
mL W25327	0	0.01	0.03	0.1	0.2	0.5	1.0	2.0
mL W25329	0	0.01	0.01	0.02	0.03	0.05	0.1	0.2
Final vol	50	100	50	50	50	50	50	50

W25330 CES
12/14/10
IC Incal mixed std - Into a 100mL VF pipette 5mL of 1000mg/L F W24612, NO_2 W25160, Br W23469, NO_3 W22939, - Ophos W23289 - filled to vol w/ milliQ H_2O. exp 12/16/10

W25331 CES
12/14/10
IC Incal

level	1	2	3	4	5	6	7	8
mL W25330	0	0.2	1.0	2.0	4.0	10.0	14.0	28.0
Cl- W24670	0	0.05	0.1	0.5	1.0	2.0	3.0	4.0
SO_4 W23936	0	⊥	⊥	⊥	⊥	3.0	5.0	7.0

To final vol of 100mL w/ milliQ H_2O. exp 12/16/10

W25332 ESC
12/14/10
TKN Buffer. Into a 2L vol. dissolved 34g EDTA W25196, 60g Sodium phosphate W25333 + W24277, + 130g NaOH W24679 + filled to vol. w/ DI H_2O exp: 1/14/11

W25333 ESC
12/14/10
Sodium Phosphate, Dibasic, 7-hydrate Crystal J.T. Baker Cat # 3824-01 Lot # H02157 exp: 12/14/15

W25334 CES
12/14/10
IC LODW - Into a 500mL vol pipette 0.025mL Br W23469, 0.5mL Cl W24670, 0.02mL F W24612, 0.03mL NO_3 W22939, 0.025mL NO_2 W25160, 0.1mL Ophos W23289, + 0.4mL SO_4 W23936 - filled to vol w/ milliQ H_2O exp 12/16/10

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Read and Understood By

Signed _____ Date _____ Signed _____ Date _____

W25316 CES 12/13/10 — LOQ5 CES 12/13/10 ~~LOQ~~ IC Into a 200mL vol pipetted 0.01mL Br W23469 filled to vol w/ milliQ H2O. exp 1/13/11 TVc 0.05 mg/kg

W25317 CES 12/13/10 — LOQ5 IC - Into a 200mL vol pipetted 0.02 mL Br W23469 + 0.04mL F W-24612 + filled to vol w/ milliQ H2O exp 1/13/11. TVc Br = 1 mg/kg F = 2 mg/kg.

W25318 JTC 12-14-10 — MDL Study WNH3: into 8 50mL VF pipetted 0.025mL W25114 & BTV w/ DI H2O. exp: 12-15-10

W25319 JTC 12-14-10 — NH3W MDL ✓: into a 100mL VF pipetted 0.015mL W25114 & BTV w/ DI H2O. exp: 12-15-10

W25320 ESC 12/14/10 — 0.8N NaOH: Into a 1L vol dissolved 32g NaOH W24679 & brought to vol. w/DI H2O exp: 1/14/11

W25321 ESC 12/14/10 — TKN Hypochlorite: Into a 500mL vol. added 30mL Bleach W24747 & brought to vol. w/ DI H2O exp: 12/15/10

W25322 CES 12/14/10 — LL NO3+Oph Working - 10mg/L - Into a 100mL vol pipetted 1mL W23499 + W23501 - filled to vol w/ milliQ H2O exp 1/14/11

W25323 CES 12/14/10 — LL NO2 Working 10mg/L - Into a 100mL vol pipetted 1mL W23500 - filled to vol w/ milliQ. H2O. exp 1/14/11

W25324 CES 12/14/10 — LL MDL study - Into 8 100mL vol pipetted 0.25mL W25322 + 0.5mL W25323 + filled to vol w/ milliQ H2O TV NO3+Oph=0.025 TV NO2 = 0.05mg/L Exp 1/14/10

exp 12/14/10

W25325 ESC 12/14/10 — TKN/TPhos Dilut: Into a 2L vol volumetrically added 480mL dig soln W25298 + filled to vol. w/DI H2O exp: 1/14/11

W25326 ESC 12/14/10 — Na Nitroprusside/Salicylate: Into a 1L vol. dissolved 150g salicylate W24923 & 1g Nitroprusside W22481 & brought to vol. w/ DI H2O exp: 1/14/11

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Read and Understood By

Signed | Date | Signed | Date

Notebook No. _____ 21

PROJECT _____ Continued From Page _____

W25275 KMB 12-8-10 LL T. Phos LOD check (Q4) Into a 50 mL VF pipetted 0.025mL W25271 and BTV w/DI H_2O. Exp. 12-15-10 TV= 5 ug/L

W25276 KMB 12-8-10 LL T. Phos LOQ check post-study- into a 50mL VF pipetted 0.075mL W25271 and BTV w/DI H_2O, TV= 15 ug/L Exp. 12-15-10

W25277 KMB 12-8-10 LL T. Phos LOD Check post-study- Into a 50 mL VF pipetted 0.025mL W25271 and BTV w/DI H_2O. Exp. 12-15-10 TV= 5 ug/L

W25278 EJC 12/9/10 IC NO_2 CCV: Into a 500mL vol. pipetted 3.5mL W25160 & brought to vol. w/ Milli Q DI H_2O exp: 1/9/10 11 EJC 12/9/10

W25279 KMB 12-9-10 Envirologix Microcystin Kit Cat# ET-022 LOT# 132990 Exp: 11-30-11

W25280 KMB 12-9-10 Ammonium Molybdate Stock- Into a 1L VF dissolved 40g W22553 and brought to vol. w/DI H_2O. Exp 2-9-11. Stirred 4 hours.

~~W25280~~ KMB 12-9-10 W25281 KMB 12-9-10 Ammonium Molybdate Reagent Low Level- Into a 1L VF volumetrically added 213mL W25280, 72 mL W25004, and 21 mL H_2SO_4 W21232 and BTV w/DI H_2O. Exp. 1-9-11.

W25282 KMB 12-9-10 LL T.Phos Ascorbic Acid- Into a 500mL VF dissolved 30g W24793 and 1.5g SDS W23748 and BTV w/DI H_2O exp 12-10-10

W25283 KMB 12-9-10 LL T. Phos Diluent/Carrier- Into a 2L VF volumetrically added 80 mL Am. Persulfate W25270 and 14.4 mL H_2SO_4 W21232 and BTV w/DI H_2O. Exp.

W25284 KMB 12-9-10 LL T. Phos ICV- Into a 100mL VF Pipetted 0.481 mL W25276 and BTV w/ Diluent W25283. Exp.

W25285 KMB 12-9-10 LL T.Phos ICAL Working- Into a 100 mL VF pipetted 1 mL W23289 and BTV w/DI H_2O. Exp. 12-16-10

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Read and Understood By

Signed _____ Date _____ Signed _____ Date _____

W25191 CES 12/1/10 — LOQS - Into a 100mL vol pipetted 0.07mL W25114 - filled to vol w/ W25786. TV= 7mL

W25192 CES 12/1/10 — NH_3 H_2SO_4 LCS - Into a 100mL vol pipetted 0.125mL W25114 - filled to vol w/ H_2SO_4 dil - W25198. exp 12/8/10

W25193 CES 12/1/10 — NH_3 H_2SO_4 Ical - Into a 100mL vol pipetted 0.25mL W24182 - filled to vol w/ W25198. exp 12/8/10

W25194 CES 12/1/10 — NH_3 H_2SO_4 CCV - Into a 100mL vol pipetted 0.125mL W24182 - filled to vol w/ W25198. exp 12/8/10

W25195 CES 12/1/10 — NH_3 Buffer - Into a 500mL vol dissolved 25g EDTA W25192 ~~W25365~~ - volumetrically added 112.5mL 1N NaOH - filled to vol w/ dI H_2O. exp 1/1/11

W25196 CES 12/1/10 — EDTA - Mallinckrodt lot# #45476 cat# 4931-04

W25197 CES 12/1/10 — ~~W25197~~ 12/1/10 1N NaOH - Into a 500mL vol dissolved 20g NaOH - W24679 - filled to vol w/ dI H_2O. exp 1/1/11

W25198 CES 12/1/10 — H_2SO_4 dilute - Into a 2L vol pipetted 4mL H_2SO_4 CES 12/1/10 ~~1/1/11~~ - W24637 - filled to vol w/ dI H_2O. exp 1/1/11

W25199 KMB 12-1-10 — LL IC LOQ W/V - Into a 200mL VF pipetted 0.107mL W25174 and BTV w/ MilliQ H_2O. 0.016 mg/L PO_4^{-}. Exp. 12-3-10

W25200 ESC 12-2-10 — IC Mixed CCV: Into a 500mL vol. pipetted 3.5mL FI W24612, NO_3 ~~W25160~~ W23939, Br W23469, *Ophos W23289, 15mL Cl W24670, + ESC 12-2-10 25mL SO_4 W23936 ✓ brought to vol. w/ MilliQ H_2O exp: 1/2/11

W25201 CES 12/2/10 — Phenolic Ical working - Into a 100mL vol pipetted 1mL W22840 - filled to vol w/ dI H_2O. exp 12/9/10

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W25173 ESC 11/30/10 — LL IC NO_2 spike: Into a 200mL vol. pipetted 10mL W23500 & brought to vol. w/ Milli Q DI H_2O tv= 50mg/L exp: 12/30/10

W25174 ESC 11/30/10 — LL IC PO_4^- spike: Into a 200mL vol. pipetted 6mL W23501 & brought to vol. w/ Milli Q DI H_2O tv= 30mg/L exp: 12/30/10

W25175 ESC 11/30/10 — LL IC LODWV: Into a 200mL vol. pipetted ~~0.02~~ 0.033 mL ESC 11/30/10 W25174, 0.04mL W25172 & W25173 & brought to vol. w/ Milli Q DI H_2O tv= 0.005mg/L PO_4^- & 0.02mg/L $NO_2 + NO_3$ exp: ~~11/30~~ 12/1/10 ESC 11/30/10

W25176 ESC 11/30/10 — LL IC LOQWV: Into a 200mL vol. pipetted 0.107mL W25174 & 0.4mL W25172 & W25173 & brought to vol. w/ Milli Q DI H_2O tv= 0.016mg/L PO_4^- & 0.2mg/L $NO_2 + NO_3$ exp: 12/1/10

W25177 ESC 11/30/10 — IC LODSV: Into a 500mL vol. pipetted 0.015mL Fl W24612 & NO_2 W22679, 0.025mL Br W23469 & NO_3 W22939, 0.05mL PO_4^- W23289, 0.75mL Cl W24670, & 0.55mL SO_4^- W23936, & brought to vol. w/ MilliQ DI H_2O tv= ~~0.03~~ 0.3 mg/kg ESC 11/30/10 Fl & NO_2, 0.5mg/kg Br & NO_3, 0.8mg/kg $NO_2 + NO_3$, 1mg/kg PO_4^-, 15mg/kg Cl, 11mg/kg SO_4 exp: 12/1/10

W25178 ESC 11/30/10 — IC LOQSV: Into a 100mL vol. pipetted 0.01mL Br W23469, 0.02mL Fl W24612 & NO_2 W22679, 0.04mL NO_3 W22939, 0.052mL PO_4 W23289, 0.37mL SO_4^- W23936, & 0.48mL Cl W24670 & brought to vol. w/ Milli Q DI H_2O. tv= ~~0.1~~ 1 mg/kg ESC 11/30/10 Br, 2mg/kg NO_2 & Fl, 4mg/kg NO_3, 5.2mg/kg PO_4, 6mg/kg $NO_2 + NO_3$, 37mg/kg SO_4, & 48mg/kg Cl exp: 12/1/10

W25179 JTh 12-1-10 — PH 7.0 Buffer. MG Scientific cat # 1551-1 4L. lot # 4010642 exp: Oct 2012

W25180 JTh 12-1-10 — PH 4.00 Buffer 4L. MG Scientific cat # 1501-1 lot # 4011071 exp: Nov. 2012

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W25162 ESC 11/29/10	NH_3 LCS: Into a 250mL vol. pipetted 1.25mL W25114 & brought to vol. w/ DI H_2O exp: 12/6/10
W25163 ESC 11/29/10	Borate Buffer: Into a 1L vol. added 500mL W25164 & 88mL 0.1 N NaOH W24556 & brought to vol. w/ DI H_2O exp: 12/29/10
W25164 ESC 11/29/10	Na Tetraborate: Into a 1L vol. dissolved 9.5g tetraborate W23610 & brought to vol. w/ DI H_2O exp: 12/29/10
W25165 JTG 11-29-10	1:1 HCl: into a beaker added 200mL HCl W24267 to 200mL DI H_2O & mixed: exp: 11-29-11
W25166 VMB 11-29-10	LL IC NO_3 CCV - Into a 100 mL VF pipetted 0.1mL 1000mg/L NO_3^- W22939 and BTV w/ Milli Q H_2O. Exp. 12-29-10.
W25167 VMB 11-29-10	LL IC NO_2^- + PO_4^- CCV - Into a 100 mL VF pipetted 0.1mL 1000 mg/L NO_2^- W25160 and 0.02mL O. Phos W23289 and BTV w/ Milli Q H_2O. Exp. 12-29-10.
W25168 VMB 11-29-10	LL IC NO_3^- LCS/ICV - Into a 100mL VF pipetted 0.1mL 1000mg/L NO_3^- W23499 and BTV w/ Milli Q H_2O. Exp. 12-29-10.
W25169 VMB 11-29-10	LL IC NO_2^- + PO_4^- LCS/ICV - Into a 100 mL VF pipetted 0.1mL 1000mg/L NO_2^- W23500 and 0.02mL O. Phos W23501 and BTV w/ Milli Q H_2O. Exp. 12-29-10
W25170 VMB 11-30-10	Ascorbic Acid - Into a 500 mL VF dissolved 30g Ascorbic W24793 and 0.5g SDS W23748 and BTV w/ DI H_2O. Expires 12-1-10
W25171 VMB 11-30-10	Molybdate Color Reagent - Into a 1L VF volumetrically added 213mL Am. Molybdate W23018 and 72mL Am. Pot. Tart. W29004 and BTV w/ DI H_2O. Exp. 12-30-10.
W25172 ESC 11/30/10	LL IC NO_3 spike: Into a 200mL vol. pipetted 10mL W23499 & brought to vol. w/ Milli Q H_2O tr= 50mg/L exp: 12/30/10

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W25153 KMB 11-24-10 — NH_3 H_2SO_4 LOD ~ - Into a 100mL VF pipetted 0.01mL W24182 and BTV w/ Dilunt W25055. Exp. 12-1-10 TV = 0.10mg/L

W25154 ESC 11/24/10 — Cr^{+6} Soil DPC: Into a 200mL vol. dissolved 1g W25133 in acetone JT Baker, Lot # 30E21 Cat # 9254-03 & to vol. w/ acetone exp: 11/25/10

W25155 ESC 11/24/10 — TKN/TPhos LCS: Into a 1L vol. pipetted 10mL W23501 & W25114 & brought to vol. w/ DI H_2O exp: 12/22/10

W25156 JTC 11-29-10 — TSS LCS: into a 1L vol. dissolved 0.4g W24339 & BTV w/ DI H_2O. exp: 12-29-10

W25157 CES 11/29/10 — TKN/TPhos dilunt - Into a 2L vol volumetrically added 680 mL dig soln W25103 & filled to vol w/ dI H_2O. exp 12/29/10

W25158 CES 11/29/10 — TKN/TPhos 250mg/L Ical/CCV Std - Into a 100mL vol pipetted 25mL W24182 & W23289 & filled to vol w/ dI H_2O. exp 12/29/10

W25159 CES 11/29/10 — TKN/TPhos Ical using W25158 & to vol w/ W25152.

		into
A	8	100
B	20	500
C	28	100
D	2.0	
E	0.8	
F	0.4	
G	0.2	
H	0.04	
I	0	

W25160 KMB 11-29-10 — AccuSpec Nitrite Standard 1000 mg/L Cat # 250-220-551 LOT # SC0193201 Expires 11-29-11.

W25161 CES 11/29/10 — TKN hypochlorite - Into a 500mL vol pipetted 50mL bleach W24747 & filled to vol w/ dI H_2O. exp 11/30/10

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W25124 KMB 11-22-10 — NH_3 Soil LCS- Prepped 11-17-10 Pipetted 0.25mL W24913 into 50mL KCl Ext. Soln-W25047. Exp. 11-24-10

W25125 JTG 11-23-10 — Cr^{+6} Dig soln: into a 2L vol. dissolved 60g sodium carbonate anhydrous W20910 + 40g NaOH W24679 + BTV w/ DI H_2O. exp: 11-23-11

W25126 JTG 11-23-10 — Cr^{+6} Ical: into 5 50mL VF pipetted 0, 1, 2-5, 5, and 10mL W23661 + BTV w/ dig soln W25125 exp: 11-24-10

W25127 JTG 11-23-10 — Cr^{+6} Icv/Lcs: into a 50mL VF pipetted 5mL W23663 + BTV w/ Dig soln W25125 exp: 11-24-10

W25128 JTG 11-23-10 — Cr^{+6} soil DPC: into a 20mL vol. dissolved 1g ~~W23707~~ JTG 11-23-10 W25133 in acetone JT Baker lot# H30E21 cat# 9254-03 exp: 11-24-10 + BTV w/ acetone.

W25129 CES 11/23/10 — IC Mixed LCS/ICV- Into a 500mL vol pipetted 20mL W23432 + filled to vol w/ milliQ H_2O exp 12/23/10

W25130 CES 11/23/10 — IC NO_2 LCS- Into a 500mL vol pipetted 3.5mL W23500.2 filled to vol w/ MilliQ H_2O. exp 12/23/10

W25131 ESC 11/23/10 ESC 11/23/10 — Ascorbic Acid Reagent: Into a 500mL vol. dissolved 30g Ascorbic acid W24793 + 0.5g SDS W23748 + brought to vol. w/ DI H_2O exp: 11/24/10

W25132 ESC 11/23/10 — TKN/TPhos ICV: Into a 100mL vol. pipetted 0.952mL W25114 + W23501 + brought to vol. w/ Dilvet W25039 exp: 12/22/10 ~~12~~ 10mg/L

W25133 JTG 11-23-10 — 1,5-Diphenylcarbazide Lot # 096686 Fisher. cat # D85-25 exp: 11-23-15

W25134 CES 11/23/10 — Sodium Bicarbonate. Fisher cat# S233-500 lot # 104706 exp 11/23/15

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W25113 CES 11/22/10 — TKN Hypochlorite - Into a 500mL vol pipetted 30mL bleach - filled to vol w/ dI H_2O. exp 11/22/10

W25114 CES 11/22/10 — NH_3/TKN LCS Stock - Into a 1L vol dissolved 3.819g NH_4Cl W23266 - 2mL H_2SO_4 W24543, filled to vol w/ dI H_2O. exp 12/22/10

W25115 CES 11/22/10 — TKN/TPhos LCV - Into a 100mL vol pipetted 0.952mL W25114 + W23501 + filled to vol w/ diluent W25039 exp 12/22/10

W25116 KMB 11/22/10 — Tetrabutylammonium Hydroxide Solution Sigma-Aldrich lot# 0001447903 cat# 426326

W25117 KMB 11/22/10 — VFA Regenerant into a 2L Vol. pipetted 10mL W25116 + brought to Vol. w/ milliQ H_2O

W25118 KMB 11/22/10 — VFA Eluent into a 2L Vol. added 50mL W23340 + brought to Vol. w/ milliQ H_2O

W25119 KMB 11-22-10 — NH_3 LCS - Into a 250mL VF pipetted 1.25mL W25114 and BTV w/ DI H_2O. Exp. 11-29-10

W25120 CES 11/22/10 — Phenol Buffer - Into a 500mL vol dissolved 1g $K_3Fe(CN_6)$ W22607 1.55g Boric Acid ~~W21756~~ W25121, 1.875g KCl W22919, vol. added 23.5mL 1N NaOH W24865, filled to vol w/ dI H_2O. exp 11/25/10

W25121 CES 11/22/10 — Boric Acid - Fisher cat A78-500 lot # 094003A

W25122 CES 11/22/10 — 4-AAP Reagent - Into a 500mL vol dissolved 0.32g 4AAP W21897 + filled to vol w/ dI H_2O. exp 11/23/10

W25123 CES 11/22/10 — 0.8N NaOH - Into a 1L vol dissolved 32g NaOH W24679 + filled to vol w/ dI H_2O exp 12/22/10

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W25102 CES 11/19/10	Mercuric Sulfate - Into 250mL vol dissolved 20g W23754 exp 12/19/10 + added 25mL H_2SO_4 W24986 + filled to vol w/ DI H_2O. W25102 exp 12/19/10	
W25103 CES 11/19/10	TKN/TPhos Dig soln - Into a 2L vol dissolved 266g potassium Sulfate W24726 + volumetrically added 50mL W25102 + 400mL H_2SO_4 W24986 + filled to vol w/ DI H_2O. exp 12/19/10	
W25104 CES 11/19/10	TKN/TPhos Spike - Into a 200mL vol pipetted 20mL W23289 + W24182 + filled to vol w/ DI H_2O. exp 12/19/10	
W25105 KMB 11-19-10	Phenolics ICAL - Into a 100mL VF pipetted 10mL W25101 and BTV w/ DI H_2O. Exp. 11-26-10	
W25106 KMB 11-19-10	Phenolics CCV - Into a 200mL VF pipetted 0.1mL W22840 and BTV w/ DI H_2O. Exp. 11-26-10	
W25107 KMB 11-19-10	Pyridine - Into a 500mL VF dissolved 7.5g Barbituric Acid W22756, 7.5mL HCl W24267 and volumetrically added 37.5mL Pyridine W23188 and BTV w/ DI H_2O. Exp. 11-26-10.	
W25108 mm 11/19/10	IC NO_2 ccv into a 500ml vol. pipetted 3.5ml W22679 + brought to vol. w/ MilliQ H_2O exp 12/7/10	
W25109 KMB 11-19-10	CN Buffer - Into a 500mL VF dissolved 48.5g Potassium Phosphate Monobasic W23209 and BTV w/ DI H_2O. Exp. 12-19-10	
W25110 KMB 11-19-10	Chloramine T - Into a 500mL VF dissolved 2g Chloramine T W22491 and BTV w/ DI H_2O. Exp. 11-20-10	
W25111 mm 11-20-10	VEA Regenerate into a 2L vol. pipetted 10ml W22897 + brought to vol. w/ MilliQ H_2O ppd - 11-18-10	
W25112 CES 11/22/10	TKN Buffer - Into a 2L dissolved 34g EDTA W24398, 60g Sodium phosphate W24247, + 130g NaOH W24679 + filled to vol w/ DI H_2O exp 12/22/10	

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W25093 mml 11-18-10 CCV for VFA - into a 100ml Vol. weighed the following & brought to Vol. w/ MilliQ H_2O

Acetic Acid AB279	0.1060	Pyruvic Acid W21927	0.1012
Formic Acid W21931	0.1014	Propionic Acid W21929	0.1020
85% Lactic Acid W21928	0.1158	Butyric Acid W21930	0.1042

W25094 mml 11-18-10 ICV for VFA's - into a 100ml Vol. weighed the following & brought to Vol. w/ MilliQ H_2O

Acetic Acid AB279	0.1063	Pyruvic Acid W21927	0.1020
Formic Acid W21931	0.1014	Propionic Acid W24929	0.1057
85% Lactic Acid W21928	0.1176	Butric Acid W21930	0.1042

W25095 ESC 11-18-10 IC LOQWV: Into a 100mL vol. pipetted 0.03 mL NO_3 W22939 & brought to vol. w/ MilliQ DI H_2O tv = 0.3 mg/L NO_3 exp: 12-18-10

W25096 ESC 11-18-10 IC LOQWV: Into a 100mL vol. pipetted 0.04 mL NO_3 W22939 & brought to vol. w/ MilliQ DI H_2O tv = 0.4 mg/L NO_3 exp 12-18-10

W25097 mml 11-18-10 VFA ICV/LCS into a 100ml Vol. pipetted 1ml W25094 & brought to Vol. w/ Eluent W25098 - stock std.

W25098 mml 11-18-10 VFA Eluent into a 2L Vol. added 50ml W23340 & brought to Vol. w/ MilliQ H_2O

W25099 mml 11-18-10 VFA Ical - into 100ml & to Vol. w/ Eluent W25098

1	2	3	4	5	6	7	8
0	0.1	0.2	0.5	1.0	2.5	5	10

W25100 KMB 11-19-10 LCS Phenolics - Into a 200 mL VF pipetted 0.1 mL W21956 and Brought to Vol. w/ DI H_2O. Exp. 11-26-10

W25101 KMB 11-19-10 Phenolics ICAL Working - Into a 100 mL VF pipetted 1 mL W22840 and BTV w/ DI H_2O. Exp. 11-26-10.

11-19-10 mml

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*W26063 CES 11/15/10 — NH_3 LCS - Into a 500mL vol pipette 2.5mL W24913 & filled to vol w/ dI H_2O. exp 11/22/10

W25064 ESC 11/15/10 — TKN Hypochlorite: Into a 500mL vol. volumetrically added 30mL bleach W24747 & filled to vol. w/ DI H_2O exp: 11/16/10

W25065 ESC 11/15/10 — Na Nitroprusside / Na Salicylate: Into a 1 L vol. dissolved 150g salicylate W24923 & 1g Nitroprusside W23481 & brought to vol. w/ DI H_2O exp: ~~11/22/10~~ ESC 11-15-10 12/15/10

*W25066 CES 11/15/10 — Borate rec soln - Into a 1L vol dissolved 20g W21756 & filled to vol w/ dI H_2O. exp 12/15/10

W25067 ESC 11-15-10 — IC LOQWV: Into a 100mL vol. pipetted 0.02mL FI W24612, 0.02mL NO_2 W22679 & 0.03mL NO_3 W22939 & brought to vol. w/ MilliQ DI H_2O exp: 11/17/10 fv = 0.2mg/L FI + NO_2, 0.3mg/L NO_3 & 0.5mg/L NO_2 + NO_3

W25068 ESC 11-15-10 — IC LOQ WV: Into a 100mL vol. pipetted 0.02mL FI W24612, 0.02mL NO_2 W22679, & 0.04 mL NO_3 W22939 & brought to vol. w/ MilliQ DI H_2O exp: 11/17/10 fv = 0.2mg/L FI & NO_2, 0.4mg/L NO_3, & 0.6mg/L NO_2 + NO_3

W25069 KMS 11-15-10 — IC Mixed Std. Spike - Into a 100mL VF pipetted 6.4mL 1000mg/L Br^- W23469, NO_3^- W22939, PO_4 W23259, 25.6mL Cl^- W24670, 25.6mL SO_4^- W23936 and BTV w/ Milli Q H_2O. Exp. 12-15-10

W25070 JTG 11-15-10 — Sulfide LCS Stock 1000mg/L: into a 200mL VF dissolved 1.5g Sodium Sulfide W23510 & BTV w/ 0.25 N NaOH W24980 exp: 12-15-10

W25071 ESC 11/16/10 — COD CCV 400mg/L: Into a 500mL vol. dissolved 0.17g KHP W23082 & brought to vol. w/ DI H_2O exp: ~~2/16/10~~ 2/16/11 EJC 11-16-10

W25072 EJC 11/16/10 — COD LCS 400mg/L: Into a 500mL vol. dissolved 0.17g KHP W19521 & brought to vol. w/ DI H_2O exp: 2/16/11

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W25022 JTG ESC 11-4-10 Phenol Buffer: into a 500 mL vol. dissolved 1g $K_3Fe(CN_6)$ W22607 1.55g Boric Acid W21756 1.875g KCl W22919 vol. added 23.5mL 1N NaOH ~~W24573~~ W24865 JTG 11-4-10 + BTV w/ DI H_2O. exp: 11-11-10

W25023 JTG ESC 11-4-10 4 amino antipyrine Color Reagent: into a 500mL vol. dissolved 0.32g 4AAP + BTV w/ DI H_2O. exp: 11-5-10

W25024 ESC 11/5/10 4AAP color reagent: Into a 500mL vol. dissolved 0.32g 4AAP & brought to vol. w/ DI H_2O exp: 11-6-10

W25025 ESC 11/8/10 TSS LCS: Into a 1L vol. dissolved 0.4g W24339 & brought to vol. w/ DI H_2O exp: 12/8/10

W25026 JTG 11-8-10 NH_3 LCS: into a 250mL VF pipetted 1.25mL W24913 + BTV w/ DI H_2O. exp: 11-15-10

W25027 ESC 11/8/10 TPhos Carrier: Into a 1L vol. dissolved 31.7g potassium sulfate W24726 & volumetrically added 48mL H_2SO_4 W24986 & brought to vol. w/ DI H_2O exp: 12/8/10

W25028 ESC 11/8/10 NaOH/NaCl: Into a 500mL vol. dissolved 80g Sodium chloride W21417 + 10g NaOH W24679 & brought to vol. w/ DI H_2O exp: 12/8/10

W25029 ESC 11/8/10 Ascorbic Acid Reagent: Into a 500mL vol. dissolved 30g Ascorbic Acid W24793 + 0.5g SDS W23748 & brought to vol. w/ DI H_2O exp: 11/9/10

W25030 ESC 11/9/10 NH_3 LCS: Into a 100mL vol. pipetted 0.5mL W24913 & brought to vol. w/ DI H_2O exp: 11/16/10

W25031 mal 11/9/10 NO_2 + F spike into a 100mL vol. pipetted 12.8mL (1000mg/L NO_2 W22629 + 3.2mL F W24612 + brought to vol. w/ Mo Lit. & H_2O exp 12/9/10

~~W12~~ 11-9-10 W25032 JTG 11-9-10 90% Acetone: Into a 1L vol. added 900mL acetone + Baker lot# J14E52 cat#: 9254-03 + BTV w/ DI H_2O. exp: 7-31-11

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W24991 BMM 10/29/10 Pyridine color Reagent: into a 500mL vol. dissolved 7.5g Barbituric acid W22256, volumetrically added 37.5mL pyridine W23188 pipetted 7.5mL HCl W24267 & brought to vol. w/ DI H_2O exp 11-5-10

W24992 MM 10/27/10 Chloramine T Reagent: Into a 500mL vol. dissolved 2g Chloramine T W22491 & brought to vol. w/ DI H_2O exp 10/30/10

W24993 RS 11/1/10 IC Mixed CCV- Into a 500mL vol pipetted 8.5mL F W24612, NO_3 W22939, Br W23469, ortho W23289, 15mL Cl W24670, & 25mL SO_4 W23936 & filled to vol w/ milliQ H_2O. exp 12/1/10

W24994 AES 11/1/10 Dishwasher acid - Into a 2L vol dissolved 840g Sodium Citrate dehydrate to vol with H_2O EMD SX0445-5 lot # 46005832. Filter

W24995 JTC 11-1-10 Sulfide LCS: into a 200mL VF pipetted 1mL W24809 + BTV w/ DI H_2O. exp: 11-2-10

W24996 KMG 11-1-10 NH_3 LCS- Into a 200mL VF pipetted 1mL W24913 and BTV w/ DI H_2O. Exp. 11-8-10

W24997 EJC 11-1-10 TKN Buffer: Into a 2L vol. dissolved 34g EDTA W24398, 60g sodium phosphate W24247 & 130g NaOH W24679 & brought to vol. w/ DI H_2O exp 12-1-10

W24998 EJC 11-1-10 ~~W24998 EJC 11-1-10~~ TKN Hypochlorite: Into a 500mL vol. volumetrically added 30mL Bleach W24747 & brought to vol. w/ DI H_2O exp 11-2-10

W24999 JTC 11-1-10 6N HCl: into a beaker vol. added 250mL DI H_2O & 250mL HCl W24267 & mixed exp 11-1-11

W25000 EJC 11-1-10 0.8 N NaOH: Into a 1L vol. dissolved 32g NaOH W24679 & brought to vol. w/ DI H_2O exp: 12-1-10

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W24963 ESC 10/26/10 Cr^{+6} ICV/LCS: Into a 50mL vol. pipetted 5mL W23663 & brought to vol. w/ Dig soln W24961 exp: 10/27/10

W24964 ESC 10/26/10 Cr^{+6} soil: DPC: Into a 200mL vol. dissolved 1g W18803 in acetone JT Baker Lot# H30E71 Cat#9254-03 exp: 10/27/10

W24965 JTB 10-26-10 Silver Sulfate sulfuric acid: 1L Lot# 92320 Cat#: 34629 Fluka analytical, Sigma Aldrich exp: 10-26-11

W24966 KMB 10-26-10 LL IC NO_3 CCV- Into a 200 mL VF pipetted 0.2mL NO_3^- W22939 and BTV w/ Milli Q H_2O. Exp. 11-26-10

W24967 KMB 10-26-10 LL IC NO_2 and O. Phos CCV- Into a 200 mL VF pipetted 0.2mL NO_2^- W22679 and 0.04 mL O. Phos W23289 and BTV w/ Milli Q H_2O. Exp. 11-26-10

W24968 KMB 10-26-10 LL IC NO_3 Spike- Into a 200mL VF pipetted 10 mL W23499 and BTV w/ Milli Q H_2O. exp 11-26-10

W24969 KMB 10-26-10 LL IC NO_2 Spike- Into a 200mL VF pipetted 10 mL W23500 and BTV w/ Milli Q H_2O. exp 11-26-10

W24970 KMB 10-26-10 LL IC O. Phos Spike- Into a 200mL VF pipetted 6mL W23501 and BTV w/ Milli Q H_2O exp. 11-26-10.

W24971 KMB 10-26-10 IC NO_2 PT - Into a 1L VF pipetted 5.0mL 859244 and BTV w/ Milli Q H_2O. exp. 11-26-10

W24972 mml 10-27-10 Cr^{+6} H_2O PT into a 500mL vol. pipetted 2.5mL 859244 & brought to Vol. w/ DI H_2O exp 10-28-10

W24973 JTB 10-27-10 Sulfide LCS: into a 200 mL VF pipetted 1mL W24809 + BTV w/ DI H_2O. exp: 10-28-10

10/27/10

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W24954 KMB IC ICAL Mixed Std: Into a 100mL VF pipetted 5mL of
10-25-10 1000 mg/L F^- W24612, NO_2^- W22679, NO_3^- W22939, W23469 Br^-,
and o Phos. W23289. BTV w/ Milli Q H_2O Exp: 10-27-10

W24955 KMB IC ICAL
10-25-10

LEVEL	1	2	3	4	5	6	7	8
Mix W24954	0	0.2	1.0	2.0	4.0	10.0	14.0	28.0
Cl^- W24670	0	0.05	0.1	0.5	1.0	2.0	3.0	4.0
SO_4^- W23936	0	0.05	0.1	0.5	1.0	3.0	5.0	7.0

To final vol. 100mL w/ Milli Q H_2O. Exp: 10-27-10

W24956 KMB IC LL NO_2 + NO_3 Working Std (50mg/L): Into a 100mL VF
10-25-10 pipetted 5mL 1000 mg/L NO_2^- W22679 and NO_3^- W22939 and BTV
w/ Milli Q H_2O. Exp. 10-27-10

W24957 KMB IC LL O. Phos Working Std. (50mg/L): Into a 100mL VF
10-25-10 pipetted 5mL W23289 and BTV w/ Milli Q H_2O. Exp. 10-27-10

W24958 KMB LL IC ICAL - To volume w/ Milli Q H_2O. Exp: 10-27-10
10-25-10

LEVEL	1	2	3	4	5	6	7	8
mL W24956	0	0.01	0.03	0.1	0.2	0.5	1.0	2.0
mL W24957	0	0.01	0.01	0.02	0.03	0.05	0.1	0.2
Final Vol:	50	100	50	50	50	50	50	50

W24959 KMB IC LL NO_2 ICV/LCS - Into a 100mL VF pipetted 0.1mL NO_3^- W23499
10-25-10 and BTV w/ Milli Q H_2O. Exp. 11-25-10

W24960 KMB IC LL NO_2 + O. Phos ICV/LCS - Into a 100mL VF pipetted 0.1mL
10-25-10 NO_2^- W23500 and 0.02mL PO_4^- W23289 and BTV w/ Milli Q H_2O.
Expires 11-25-10.

W24961 EJC Cr^{+6} Dig soln: Into a 2L vol. dissolved 60g sodium carbonate anhydrous
10/26/10 W20918 + 40g NaOH W24679 + brought to vol. w/ DI H_2O exp: 10/26/11

W24962 EJC Cr^{+6} ICAL: Into 5 50mL vol. flasks pipetted 0, 1, 2.5, 5, +10mL W23661
10/26/10 + filled to vol. w/ dig soln W24961 exp: 10/27/10

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W24928 ESC 10/21/10 Alk ICV: Into a 100mL vol. pipetted 3mL W24927 & brought to vol. w/ CO_2 free DI H_2O exp: 11/21/10 tv=75mg/L

W24929 ESC 10/21/10 Alk LCS: Into a 200mL vol. pipetted 30mL W24927 & brought to vol. w/ CO_2 free DI H_2O exp: 11/21/10 tv=375mg/L

W24930 ESC 10/21/10 Alk CCV/ICAL stock 2500mg/L: Into a 500mL vol. dissolved 1.325g Na_2CO_3 W21099 & brought to vol. w/ CO_2 free DI H_2O exp: 11/21/10

W24931 ESC 10/21/10 Alk ICAL: pipetted W24930 & to vol. w/ CO_2 free DI H_2O exp: 11/21/10

		100mL final vol
A	30mLs	
B	25	
C	20	
D	15	
E	10	
F	5	
G	3	
H	1	
I	0	

W24932 ESC 10/21/10 KHP Buffer Into a beaker dissolved 2.5g KHP W19521 into 450mL DI H_2O CO_2 free & volumetrically added 42.5mL 0.1N ~~NaOH~~ HCl W24882 & adjusted pH to 3.1 ± 0.05 exp: 10/27/10 ESC 10/21/10

W24933 CES 10/21/10 Sulfide LCS - Into a 200mL vol pipetted 1mL W24809 & filled to vol w/ DI H_2O exp 10/22/10

W24934 CES 10/22/10 IC mixed LCS - Into a 500mL vol pipetted 20mL W23432 & filled to vol w/ milliQ H_2O exp 11/22/10

W24935 CES 10/22/10 IC NO_2 LCS - Into a 500mL vol pipetted 3.5mL W23500 & filled to vol w/ milliQ H_2O exp 11/22/10

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W24900 cas 10/18/10		Ammonium molybdate - Into a 1L vol dissolved 40g W22553 + filled to vol w/ dI H_2O stir for 4 hours. exp 12/18/10
W24907 10/18/10	esc	IC NO_2 CCV: Into a 500mL vol. pipetted 35mL NO_2 W brought to vol. w/ MilliQ DI H_2O exp: 11/8/10
W24908 10/18/10	mad	TOCW CCV: into a 200mL vol. pipetted 10ml W24189 + brought to vol w/ milliQ H_2O
W24909 10/19/10	esc	MDLs ✓ 85% 10/19/10 50 87% 10/19/10 CN ~~LOOSV~~: Into a ~~100mL~~ vol. pipetted 2.6mL 100mg/L std from W24874 + brought to vol. w/ 0.25N NaOH W24870 hv=5.2mg/L 0.13mg/kg exp: 10/26/10
W24910 10-19-10	KMB	TKN Hypochlorite -
W24911 10-19-10	KMB	TKN Buffer -
W24912 10-19-10	KMB	TKN 0.8N NaOH -
W24913 10-19-10	KMB	TKN/ NH_3 LCS Stock -
W24914 10-19-10	KMB	TKN/ TPhos Dilment -
W24915 10-19-10	KMB	TKN/ T. Phos ICV -
W24916	KMB	Na Salicylate/Na Nitroprusside -

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+ W24877 ESC 10/14/10 — Alk LCS: 375mg/L Into a 200mL vol. pipetted 30mL W24875 & brought to vol. w/ CO_2 free DI H_2O exp: 11/14/10

+ W24878 ESC 10/14/10 — Alk ICAL/CCV Stock 2500mg/L Into a 500mL vol. dissolved 1.325g Na_2CO_3 W21099 & brought to vol. w/ CO_2 free DI H_2O exp: 11/14/10

+ W24879 ESC 10/14/10 — Alk ICAL: pipetted W24878 & to vol w/ CO_2 free DI H_2O 11/14/10 exp: ~~10/14~~ ESC 10/14/10

		100mL final vol
A	30mLs	
B	25	
C	20	
D	15	
E	10	
F	5	
G	3	
H	1	
I	0	

+ W24880 ESC 10/14/10 — KHP Buffer: Into a beaker dissolved 2.5g KHP W23082 into 450mL CO_2 free DI H_2O & volumetrically added 42.5mL 0.1M HCL W24882 & adjusted pH to 3.1±0.05 exp: 10/21/10

+ W24881 ESC 10/14/10 — Methyl Orange Soln: Into a 1L vol. volumetrically, added 100mL methyl orange W23178 & brought to vol. w/ CO_2 free DI H_2O exp: 11/14/10

+ W24882 ESC 10/14/10 — 0.1M HCL: Into a 500mL vol. pipetted 4.15mL HCL W24267 & brought to vol. w/ CO_2 free DI H_2O exp: 10/14/11

+ W24883 ESC 10/14/10 — TOCW CCV: Into a ~~50~~ ESC 10/14/10 100mL vol. pipetted 5mL W24189 & brought to vol. w/ Milli Q H_2O exp: 11/14/10

W24884 KMB 10-14-10 — IC Mixed Spike - Into a 100mL VF pipetted 6.4mL 1000mg/L Br^- W23469, NO_3^- W22939, PO_4^- W23289, Cl^- 25.6mL W24670, 25.6mL W23936 SO_4^- and BTV w/ Milli Q H_2O. exp. 11-14-10

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W24665 EJC 9/13/10 — TKN/TPhos ICV: Into a 100mL vol. pipetted 0.952mL W24652 + W23501 + brought to vol. w/diluent W24666 exp: 10/13/10

W24666 EJC 9/13/10 — TKN/TPhos Diluent: Into a 2L vol. volumetrically added 480mL dig soln: W24636 + filled to vol. w/ DI H_2O exp: 10/9/10

+ W24667 mml 9/13/10 — IC mixed spike Into a 100ml Vol. pipetted 6.4ml 1000mg/L Br W23469, NO_3 W23939, ophos W23289, 25.6ml Cl W~~23947~~ 24670 9-13-10 mml + Soy W23936 + brought to Vol. w/ milliQ H_2O exp 10/13/10

+ W24668 mml 9/13/10 — IC mixed LCS/ICV into a 500ml Vol. pipetted 20ml LCS Stock W23432 + brought to Vol. w/ MilliQ H_2O exp 10/13/10

+ W24669 mml 9/13/10 — IC NO_3 LCS into a 500ml Vol. pipetted 3.5ml 1000mg/L NO_3 W23500 + brought to Vol. w/ milliQ H_2O exp 10/13/10

+ W24670 mml — Cl Std. 1000mg/L AccuSpec cat# 250-220-371 lot# SC92100047 exp 6/11

W24671 EJC 9/13/10 — E. Coli: Microbiologics Cat# 0335V Lot# 335-56-1 exp: 05/12

W24672 EJC 9/13/10 — K. Pneumoniae Microbiologics Cat# 0351V Lot# 351253 exp: 03/12

W24673 EJC 9/14/10 — IC LL NO_3 LCS: Into a 100mL vol. pipetted 0.1mL 1000mg/L NO_3 W23499 + brought to vol. w/ Milli Q H_2O exp: 10/14/10

W24674 CES 9/14/10 — Boric Prep soln - Into a 1L vol dissolved 20g W21756 + filled to vol w/ dI H_2O exp 10/14/10

W24675 CES 9/14/10 — Boric Dilut - Into a 2L vol volumetrically added 200mL W24674 + filled to vol w/ dI H_2O. exp 10/14/10

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mml — Signed — 9-15-10 — Date — Signed — Date

W24610 JTG 9-7-10 — NH_3 LCS: into a 200 mL vol. pipetted 1 mL W24422 + BTV w/ DI H_2O. exp: ~~9-14-10~~ 9/13/10 EJC 9/8/10

W24611 CES 9/7/10 — Ascorbic reagent — Into a 500mL vol dissolved 30g W24361 + 0.5g SDD W23748 + filled to vol w/ dI H_2O. exp 9/8/10 e

W24612 EJC 9/7/10 — F^- 1000mg/L Std: AccuSPEC Cat# 250-220-40x Lot# SC0152785 exp: 9/7/11

W24613 EJC 9/7/10 — IC NO_2+F Spike: Into a 100mL vol. pipetted 12.8 mL NO_2 W22679 & 3.2 mL F^- W24612 + brought to vol. w/ Milli Q H_2O exp: 10/7/10

W24614 EJC 9/7/10 — IC Mixed CCV: Into a 500mL vol. pipetted 3.5mL F^- W24612, NO_3^- W22939, Br^- W23469, PO_4 W23289, 15mL Cl^- W22942, +25mL SO_4^- W23936+brought to vol. w/ Milli Q H_2O exp: 10/7/10

W24615 JTG 9-7-10 — Rosalic Acid: into a small flask dissolved 0.2g rosalic Acid W23623 in 4mL 1M NaOH ~~W24271~~ W24573 + added 16mL dI Milli Q H_2O. exp: 10-7-10 9-7-10 JTG

W24616 EJC 9/7/10 — TOCW ICAL using 24189 & to vol. w/ Milli Q H_2O exp: 9/14/10

1	0mLs	→ 25mLs	=	0mg/L
2	0.25	→	=	10mg/L
3	1.25	→	=	50mg/L
4	2.5	→	=	100mg/L

W24617 EJC 9/8/10 — NH_3 LCS: Into a ~~20~~ EJC 9/8/10 100mL vol. pipetted 0.5mL W24422 & brought to vol. w/ DI H_2O exp: ~~9/15/10~~ 9/13/10 EJC 9/8/10

W24618 mml 9/8/10 — TKN Buffer: ~~into~~ a 2L Vol. dissolved 34g EDTA W24388 60g Sodium phosphate W24247 + 130g NaOH W23614 + brought to Vol. w/ dI H_2O exp 10/8/10

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W2499 MWD 4-8-10 Nitrate Anion Standard - 1,000 mg/L From Spex CertiPrep Cat no: AS-NO_3N9-2Y Lot no: 2-26NO3N-2, exp: March 30, 2011

W23500 MWD 4-8-10 Nitrite Anion Standard - 1,000 mg/L: From SpexCertiPrep cat-no. AS-NO_2N9-2Y Lot no.: 2-11NO2N-2. exp: March 30, 2011

W23501 MWD 4-8-10 Phosphate ~~Anion~~ Standard - 1,000 mg/L: From SpexCertiPrep Lot. No. ~~AS~~ AS-PO_4P9-12X. Lot no: 2-5PO4P-2. exp: March 30, 2011.

W23502 MWD 4810 LL NO3 IC Spike - Into a 100 mL vol pipetted 5mL W2499 brought to vol. w/ ~~DI H2~~ 4-8-10 MWD Milli Q H2O. exp: 5-8-10 [50 mg/L]

W23503 MWD 4-8-10 LL NO2 IC Spike - Into a 100 mL vol. pipetted 5mL W23500 brought to vol. w/ Milli Q H2O. exp: 5-8-10. [50 mg/L]

W23504 MWD 4-8-10 LL OPhos IC Spike - Into a 100 mL vol. pipetted 3mL W23501 brought to vol. w/ Milli Q H2O. exp: 5-8-10. [30 mg/L]

W23505 CES 4/9/10 CN Buffer - Into a 500 mL vol dissolved 48.5g potassium phosphate monobasic W23209 - filled to vol w/ dI H2O. exp 5/9/10

W23506 CES 4/9/10 Pyridine color reagent - ~~Into a 500 mL vol dissolved 30g Ascorbic W22945 + 0.5g 500 W1935 - filled to vol w/ dI H2O.~~ 7.5g Barbituric acid W22756 Volumetrically added 37.5 mL pyridine W23188 + 7.5mL HCl W22731 + fill to vol w/ dI H2O exp 4/16/10

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W23424 CES 3/29/10 Boric Rec Soln - Into a 1L vol dissolved 20g boric acid W21756 + filled to vol w/ dI H_2O.

W23425 CES 3/29/10 NH_3 LCS - Into a 200mL vol pipette ea 1mL W23267 + filled to vol w/ dI H_2O.

W23426 mod 3/29/10 TKN hypochlorite into a 500ml Vol. volumetrically added 30ml bleach W23366 + brought to vol. w/ dI H_2O exp 3/30/10

W23427 mod 3/29/10 Na Sulfite/Nitrite/Nitrate Dec Iodide Cross Oxide Into a 1L Vol, dissolved 1.500g Sodium Nitrite W23079 + 1g Na Thiosulfate Pentahydrate Cross Oxide W22481 + brought to vol. w/ dI H_2O exp 4/29/10

W23428 mod 3/29/10 Standard Solution Check Fisher lot# 094971 cat# S395-500

W23429 CES 3/29/10 10 N NaOH - Into a 250mL vol dissolved 100g NaOH W22703 + filled to vol w/ dI H_2O exp 4/29/10

W23430 mod 3/29/10 0.8m NaOH into a 1L Vol. dissolved 32g NaOH W22703 + brought to vol. w/ dI H_2O exp 4/29/10

W23431 CES 3/29/10 2% H_2SO_4 - Into a 100ml vol volumetrically added 2mL H_2SO_4 W23390 + filled to vol w/ dI H_2O. exp 4/29/10

W23432 CES 3/29/10 IC Custom Ion Standard: Spex CertiPrep Cat# VCTW1-3-500 Lot# 65-MTVY exp 3/15/2011

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W23289 MWD 3-8-10 3-9-10 MWD Phosphate as Phosphorous [1,000 ppm]- AccuSpec cat. no. 250-220-611 lot. no. SC9280804. exp ~~3-8-11~~ 3-9-11 3-9-10 MWD

W23290 mwd 3/9/10 Sulfide LCS Stock 1000 mg/L into a 500ml vol. dissolved 3.75g Sodium Sulfide W22510 + brought to vol. w/ DI H_2O exp 4/9/10

W23291 MWD 3-9-10 CCV for ~~VFA's~~ = Into a 100 mL vol weighed the following & brought to vol. w/ Milli Q

Acetic Acid	AB279	0.1028 g	Pyruvic Acid	W21927	0.1012 g
Formic Acid	W21931	0.1013 g	Propionic Acid	W21929	0.1020 g
85% Lactic Acid	W21928	0.1158 g	Butyric Acid	W21930	0.1027 g

exp. 8-28-10

W23292 MWD 3-9-10 ICV for VFA's- Into a 100 mL vol. weighed the following & brought to vol. w/ Milli Q

Acetic Acid	AB279	0.1022 g	Pyruvic Acid	W21927	0.1008 g
Formic Acid	W21931	0.1008 g	Propionic Acid	W21929	0.1023 g
85% Lactic Acid	W21928	0.1161 g	Butyric Acid	W21930	0.1024 g

exp. 8-28-10

W23293 MWD 3-10-10 NH_3 Cal mls W21863 to vol (mL) w/ W23294

A	0.4	50
B	0.2	
C	0.1	
D	0.05	
E	0.025	
F	0.01	100
G	0	50

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W23094 CES 2/3/10 Phenolic LCS - Into a 100mL vol pipetted 0.1mL W21956 - filled to vol w/ dI H_2O.

W23095 CES 2/3/10 Phenolic Soil MDLS check - Into a 100mL vol pipetted 0.1mL W23091 - filled to vol w/ dI H_2O.

CES 2/3/10

W23096 CES 2/3/10 ~~Tot~~ Total Cr LCS/~~ICS~~ ICV W23e9L - Into a 100mL vol CES 2/3/10 dissolved 0.2128g KHP ~~W19521~~ W18911 & filled to vol w/ milli Q dI H_2O.
exp 8/3/10

W23097 ESC 2/3/10 Cr^{+6} DPC color reagent: Into a 100mL vol. dissolved 0.5g DPC W18803 + brought to vol. w/ Acetone Cat# 9254-03 Lot# H12E11

W23098 CES 2/4/10 IC Eluent conc. - Into a 1L vol dissolved 185.5g Sodium carbonate W23099 & Sodium bicarbonate W18881 42g filled to vol w/ milli Q H_2O. exp 2/4/11

W23099 CES 2/4/10 Sodium Carbonate anhydrous - EMD lot # 49203934 Cat # SX0395-1

W23100 CES 2/4/10 IC MDL check - Into a 100mL vol pipetted 0.1mL Cl^- W22942, SO_4 ~~NO3 W22939~~ & 0.005mL NO_3 W22939 - filled to vol w/ milli Q H_2O.

CES 2/4/10

W23101 CES 2/4/10 IC LCS check - Into a 100mL vol pipetted ~~0.1mL~~ 0.35mL Cl^- W22942 SO_4 W22744, & 0.02mL NO_3 W22939 & filled to vol w/ milli Q H_2O.

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W22932 ESC 1/15/10 TKN/TPhos MDLS study: Into 8 seperate digestion tubes pipetted 0.02 mL W20988 & 0.01 mL W22929 ESC 1/15/10 & brought to a final vol of 20 mL w/ DI H_2O true value = 50 mg/kg N & 100 mg/kg P

W22933 ESC 1/15/10 TKN/TPhos MDLSV: Into a 100 mL vol. pipetted 0.03 mL W22929 & 0.06 mL ESC 1/15/10 W20988 & brought to vol. w/ DI H_2O. true value = 30 mg/kg N & 60 mg/kg P

W22934 ESC 1/15/10 Chloramine T: Into a 250 mL vol. dissolved 1g Chloramine T W22491 & brought to vol. w/ DI H_2O exp: 1/16/10

*W22935 ESC 1/15/10 TKN/TPhos LCS: Into a 1 L vol. pipetted 10 mL W20988 & W22929 & filled to vol. w/ DI H_2O exp: 2/15/10

*W22936 ESC 1/15/10 TKN/TPhos Spike: Into a 100 mL vol. pipetted 20 mL W20988 & W22929 & filled to vol. w/ DI H_2O exp: 2/15/10

W22937 ESC 1/15/10 CN LCS W ESC 1/15/10 50 mg/L: Into a 50 mL vol. volumetrically added 25 mL distilled. LCS W ESC 1/15/10 100 mg/L W22883 from prep batch 31961 & brought to vol. w/ 0.25N NaOH W22886

W22938 ESC 1/18/10 NH_3 LCS: Into a 250 mL vol. pipetted 1.25 mL W22929 & filled to vol. w/ DI H_2O

*W22939 ES 1/18/10 Nitrate - Accu Spec Std 1000 mg/L cat # 250-220-521 lot # SC9280803 exp 1/16/11

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W22675 ESC 12/4/09 Chloramine T reagent: Into a 500mL vol. dissolved 2g W22491 + brought to vol. w/DI H_2O exp: 12/5/09

W22676 ESC 12/4/09 Pyridine Reagent: Into a 500mL vol. dissolved 75g barbituric acid W21123 + pipetted 375mL pyridine W19907 + 75mL HCl W22261 + brought to vol. w/DI H_2O exp: 12/11/09

W22677 JTG 12/7/09 NH_3 LCS: into a 1L vol. vol. pipetted 5mL W22586 + filled to vol. w/ DI H_2O

W22678 CD 12/7/09 Ascorbic Reagent - Into a 250mL vol dissolved 15g Ascorbic W22301 + 0.25g SDS W19329 + filled to vol w/ dI H_2O.

W22679 mwl 12/7/09 NO_2 1000mg/L std. AccuSpec lot# SC9287861 cat# 250-220-551 exp 12/7/10

~~X~~ W22680 mwl 12/7/09 IC NO_3 & F spike into a 100mL vol. pipetted 12.8ml 1000mg/L NO_3 W22679 - T.V = 128mg/L + 3.2ml F 1000mg/L T.V = 32mg/L 12-7-09 mwl + brought to Vol. w/ Milli Q H_2O exp ~~11/7/10~~ 11/7/10

~~X~~ W22681 mwl 12/7/09 IC NO_2 CCV into a 500ml Vol. pipetted 3.5ml NO_2 W22679 + brought to Vol. w/ milli Q H_2O exp 11/7/10

W22682 ESC 12/8/09 Borate Buffer: Into a 1L vol. volumetrically added 500mL Na Tetraborate W22683 + 88mL 0.1 N NaOH W20406 + brought to vol. w/ DI H_2O

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	Log ID #	Solution Prep Solvent Lot #	Prep	Final Conc.	Exp. Date	Prep By / Date	ID #
Standard Prep	Concentration						
8260 ICV	⑩ V540 2000 ug/mL	JT Baker Lot # H46E44	1500 uL of ⑩ + 300 uL of ⑪ + 3250 uL + 2 mL MeOH	100 ug/L	9/20/10	AP 9/13/10	VOC04 3535
Sp. Kingstd	⑪ V571 1000 ug/mL						
8260 CCV	⑩ V516 2000 ug/mL ⑪ V570 1000/100 ug/mL						VOC04 3536
Calib. Std.	⑬ V572 1000 ug/mL						
Nitrocellulose Stock (neat)	W13325 (Callulose Nitrate - 70% in IPA)	N/A	Dried overnight @ 75°C	Neat	6/24/11	RO 9/17/10	VOC04 3537
Nitrocellulose Spiking Std.	VOC04 3537 (oven dried)	Acetone, JT Baker, Cat# 9254-03 Lot # J14E02	0.5007g to Volume in 100mL Vol. Flask	5000 mg/L	3/17/11	RO 9/17/10	VOC04 3538
8020 Istd./Sstd.	V559 2000 ug/mL	J.T. Baker MeOH Lot # H46E44	1 mL of each into 25 mL MeOH	80 ug/mL	09/21/11	BMS 09/21/10	VOC04 3539
8020 CCV std	V560 2000 ug/mL						
	V500 1000 ug/mL		1 mL into 10 mL MeOH	100 ug/mL	03/21/11	BMS 09/21/10	VOC04 3540
8020 ICV/spikingStd	V561 1000 mg/mL		1 mL into 10 mL MeOH	100 ug/mL	03/21/11	BMS 09/21/10	VOC04 3541
8260 BFB	V			50 ug/L	10/1/10	AP 6 9/24/10	VOC04 3542
8260 ISTD	V			80 ug/L			VOC04 3543
8260 SSTD	⑩ V			100 ug/L			VOC04 3544
8260 ISTD/SSTD	⑩ V ⑪ V			80 ug/L			VOC04 3545
8260 ICV/ Spiking std	⑩ V ⑪ V			100 ug/L			VOC04 3546
8260 CCV/ Calib. Std.	⑪ V ⑫ V ⑬ V			100 ug/L			VOC04 3547

ID #	Standard Prep	Log ID # Concentration	Dilution Solvent Lot #	Prep	Final Conc.	Exp. Date	Prep By Date	ID #	
									e
									1
									2
									3
									4
									5
									6
10C04	8260	⑥V510 2500ug/L	JT Baker Lot # A40B36	120uL of ⑥ + 150uL of ① + 2730uL of MeOH	100ug/mL	5/13/10	5/24/10 APC	V0C04	1
457	SSTD	②V539 2000ug/L						3471	2
2C04	8260	⑤V544 ⑥V510 ≥2500ug/L		320uL of ① + 400uL of ⑤ + 10mL F.V. w/ MeOH	80ug/mL			V0C04	3
458	ISTD/SSTD	③V539 2000ug/L						3472	4
2C04	8260 ICV/	⑥V540 2000ug/L ②V544 1000/10000ug/L		150uL of ⑥ + 300uL of ② + ③ + 2250uL MeOH	120ug/mL			V0C04	5
459	Sp. King std.	⑤V544 1000ug/mL						3473	6
10C04	8260 CCV/	①V516 2000ug/mL ②V544 1000/10000ug/L			100ug/mL			V0C04	7
460	Calib. std.	③V550 1000ug/mL						3474	8
0C04	8260	V502		750uL of V502 + 2250uL of MeOH	50ug/L	6/15/10	6/8/10 AP6	V0C04	9
461	BFB	2000ug/mL						3475	10
9C04	8260	V553 2500ug/mL		320uL of V553 to 10 mL F.V. w/ MeOH	80ug/mL			V0C04	11
462	ISTD							3476	12
10C04	8260	⑥V543 2500ug/mL		120uL of ⑥ + 150mL of ① + 2730uL of MeOH	100ug/mL			V0C04	13
463	SSTD	②V539 2000ug/mL						3477	14
10C04	8260	①V553 2500ug/mL ②V543 2500ug/mL		320uL of ① + 320uL of ② + 400uL of ③ + 10mL F.V. w/ MeOH	80ug/mL			V0C04	15
464	ISTD/SSTD	③V539 2000ug/mL						3478	16
0C04	8260 ICV/	①V540 2000ug/mL		150mL of ① + 300uL of ②	100ug/mL			V0C04	17
465	Sp. King std.	②V547 1000/10000ug/mL ③V545 1000ug/mL		+ 300uL of ③ + 2250uL MeOH				3479	18
10C04	8260 CCV/	①V516 2000ug/L			100ug/mL			V0C04	19
466	Calib. std	②V548 1000/10000ug/mL ③V550 1000ug/mL						3480	20
10C04	8260 VMS3	V0C04 3476		2.0mL of V0C04 3476 to 10mL F.V. w/ MeOH	16ug/mL			V0C04	21
3467	ISTD	80 ug/mL						3481	22
	8260 VMS3	V0C04 3478		2.0mL of V0C04 3478 to 10mL F.V. w/ MeOH	16ug/mL			3481 V0C04	23
	ISTD/SSTD	80 ug/mL						3482	24
	Nitrocellulose Std	Cellulose Nitrate ALDRICH (D:1.20g/cc) 70% in H2O 103°C -WI3325-	Acetone JT Baker Lot # H12E11	0.4169g of WI3325 into 100mL Acetone.	4169 mg/L	12/11/10	RD 6/11/10	V0C04 3483	25 26
V0C04									27
3468	8260	V502		750uL of STD + 2925uL of MeOH	50ug/L	6/30/10	6/23/10 AP4	V0C04	28
10C04	BFB	2000ug/mL						3484	29
3469	8260	V553		320uL of STD to 10mL F.V. w/ MeOH	80ug/mL			V0C04	30
V0C04	ISTD	2500ug/L						3485	31
3470	8260	⑥V543 2500ug/L		120uL of ⑥ + 150uL of ② + 2730uL of MeOH	100ug/mL			V0C04	32
	SSTD	②V539 2000ug/mL						3486	33

WSOLIDS Analytical Run
71954 on 11/24/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
82424	870200	11/9/2010	0920		USACE - LOUISVILLE	RAVENNA	SOLIDS,PERCENT		S	4	
		DLASS-005-0001-SO									
82424	870201	11/9/2010	1525		USACE - LOUISVILLE	RAVENNA	SOLIDS,PERCENT		S	4	
		DLASS-014-0001-SO		Designated MS/MSD							
82424	870202	11/9/2010	1500		USACE - LOUISVILLE	RAVENNA	SOLIDS,PERCENT		S	4	
		DLASS-011-0001-SO									
82424	870203	11/9/2010	1535		USACE - LOUISVILLE	RAVENNA	SOLIDS,PERCENT		S	4	
		DLASS-014-0003-SO									
82424	870204	11/10/2010	1316		USACE - LOUISVILLE	RAVENNA	SOLIDS,PERCENT		S	4	
		DLASS-030-0001-SO									
82424	870207	11/9/2010	1600		USACE - LOUISVILLE	RAVENNA	SOLIDS,PERCENT		S	4	
		DLASS-026-0001-SO									
82458	871184	11/11/2010	0900		USACE - LOUISVILLE	RAVENNA ORE PILES	SOLIDS,PERCENT		S	4	
		DLASS-032-0003-SO									
82458	871186	11/11/2010	1230		USACE - LOUISVILLE	RAVENNA ORE PILES	SOLIDS,PERCENT		S	4	
		DLASS-042-0003-SO									
82458	871187	11/11/2010	0931		USACE - LOUISVILLE	RAVENNA ORE PILES	SOLIDS,PERCENT		S	4	
		DLASS-035-0001-SO									
82458	871188	11/11/2010	1045		USACE - LOUISVILLE	RAVENNA ORE PILES	SOLIDS,PERCENT		S	4	
		DLASS-036-0001-SO									
82458	871189	11/11/2010	0945		USACE - LOUISVILLE	RAVENNA ORE PILES	SOLIDS,PERCENT		S	4	
		DLASS-031-0001-SO									
82458	871190	11/11/2010	1000		USACE - LOUISVILLE	RAVENNA ORE PILES	SOLIDS,PERCENT		S	4	
		DLASS-039-0001-SO									
82458	871191	11/11/2010	1310		USACE - LOUISVILLE	RAVENNA ORE PILES	SOLIDS,PERCENT		S	4	
		DLASS-037-0001-SO									
82458	871192	11/11/2010	1030		USACE - LOUISVILLE	RAVENNA ORE PILES	SOLIDS,PERCENT		S	4	
		DLASS-034-0001-SO									
82458	871193	11/11/2010	1043		USACE - LOUISVILLE	RAVENNA ORE PILES	SOLIDS,PERCENT		S	4	
		DLASS-038-0001-SO									
82458	871194	11/11/2010	1235		USACE - LOUISVILLE	RAVENNA ORE PILES	SOLIDS,PERCENT		S	4	
		DLASS-044-0001-SO									
82458	871195	11/11/2010	1020		USACE - LOUISVILLE	RAVENNA ORE PILES	SOLIDS,PERCENT		S	4	
		DLASS-041-0001-SO									
82458	871196	11/11/2010	0920		USACE - LOUISVILLE	RAVENNA ORE PILES	SOLIDS,PERCENT		S	4	
		DLASS-040-0001-SO									
82458	871197	11/11/2010	1220		USACE - LOUISVILLE	RAVENNA ORE PILES	SOLIDS,PERCENT		S	4	
		DLASS-042-0001-SO									

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

WSOLIDS Analytical Run
71954 on 11/24/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
82458	871198		11/11/2010 0900		USACE - LOUISVILLE	RAVENNA ORE PILES	SOLIDS,PERCENT		S	**4**	
		DLASS-032-0001-SO									
	874181		11/9/2010 1525				SOLIDS,PERCENT				
		DLASS-014-0001-SO		DUP 870201							

21 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

Data Validation Checklist

LIMS #: 71954	Method: Total Solids SM2540B&G / Percent Solids SW846-5030A			
Analysis Date	Analyst / Data Interpreter	Independent Reviewer	Date of Review	Approved
11-22-10	JTG / CEJ	mml	11-28-10	(Yes) ... No

Instructions: Complete one checklist per *analytical run*. Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section, and may require the initiation of a Nonconformance Report.

Requirement:	Acceptance Criteria	Analyst Review		Independent Review		Comments: (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
1. Were samples analyzed within hold time?	7 days	X		X		
2. Were samples dried overnight?	> 8hours	X				
3. Were drying start and stop times recorded?	---	Y				
4. Were duplicates analyzed at the appropriate frequency?	1 per 20 of similar matrix	X				
5. Were the duplicates within acceptable limits?	Within in house QC limits	Y				
6. Are all samples on the job lists accounted for?	---	X				

WSOLIDS Analytical Run
72192 on 12/6/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
82424	870188	DLASS-027-0001-SO	11/10/2010 0955		USACE - LOUISVILLE	RAVENNA	SOLIDS,PERCENT		S	4	
82424	870189	DLASS-002-0001-SO	11/10/2010 1015	Designated MS/MSD	USACE - LOUISVILLE	RAVENNA	SOLIDS,PERCENT		S	4	
82424	870190	DLASS-018-0001-SO	11/10/2010 1225		USACE - LOUISVILLE	RAVENNA	SOLIDS,PERCENT		S	4	
82424	870191	DLASS-001-0001-SO	11/10/2010 1030		USACE - LOUISVILLE	RAVENNA	SOLIDS,PERCENT		S	4	
82424	870192	DLASS-016-0001-SO	11/10/2010 1405		USACE - LOUISVILLE	RAVENNA	SOLIDS,PERCENT		S	4	
82424	870193	DLASS-017-0001-SO	11/10/2010 1330		USACE - LOUISVILLE	RAVENNA	SOLIDS,PERCENT		S	4	
82424	870194	DLASS-022-0001-SO	11/9/2010 1220		USACE - LOUISVILLE	RAVENNA	SOLIDS,PERCENT		S	4	
82424	870195	DLASS-022-0003-SO	11/9/2010 1230		USACE - LOUISVILLE	RAVENNA	SOLIDS,PERCENT		S	4	
82424	870196	DLASS-008-0001-SO	11/9/2010 1100		USACE - LOUISVILLE	RAVENNA	SOLIDS,PERCENT		S	4	
82424	870197	DLASS-021-0001-SO	11/9/2010 1030		USACE - LOUISVILLE	RAVENNA	SOLIDS,PERCENT		S	4	
82424	870208	DLASS-029-0001-SO	11/9/2010 1620		USACE - LOUISVILLE	RAVENNA	SOLIDS,PERCENT		S	4	
82424	870209	DLASS-007-0001-SO	11/9/2010 0900		USACE - LOUISVILLE	RAVENNA	SOLIDS,PERCENT		S	4	
82424	870210	DLASS-020-0001-SO	11/9/2010 1000		USACE - LOUISVILLE	RAVENNA	SOLIDS,PERCENT		S	4	
82424	870211	DLASS-028-0001-SO	11/9/2010 1549		USACE - LOUISVILLE	RAVENNA	SOLIDS,PERCENT		S	4	
82424	870212	DLASS-002-0003-SO	11/10/2010 1025		USACE - LOUISVILLE	RAVENNA	SOLIDS,PERCENT		S	4	
82424	870213	DLASS-012-0001-SO	11/9/2010 1630		USACE - LOUISVILLE	RAVENNA	SOLIDS,PERCENT		S	4	
82424	870214	DLASS-025-0001-SO	11/9/2010 1500		USACE - LOUISVILLE	RAVENNA	SOLIDS,PERCENT		S	4	
82424	870215	DLASS-006-0001-SO	11/9/2010 0900		USACE - LOUISVILLE	RAVENNA	SOLIDS,PERCENT		S	4	
82424	870216	DLASS-013-0001-SO	11/9/2010 1458		USACE - LOUISVILLE	RAVENNA	SOLIDS,PERCENT		S	4	

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

WSOLIDS Analytical Run
72192 on 12/6/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	877494		11/10/2010 1015				SOLIDS,PERCENT				
		DLASS-002-0001-SO		DUP 870189							

20 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

WSOLIDS Analytical Run
72193 on 12/6/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
82399	869552	DLASS-010-0001-SO	11/9/2010 1100		USACE - LOUISVILLE	RAVENNA	SOLIDS,PERCENT		S	**4**	
82399	869553	DLASS-019-0001-SO	11/9/2010 1022		USACE - LOUISVILLE	RAVENNA	SOLIDS,PERCENT		S	**4**	
82399	869554	DLASS-009-0001-SO	11/9/2010 1155		USACE - LOUISVILLE	RAVENNA	SOLIDS,PERCENT		S	**4**	
82399	869555	DLASS-024-0001-SO	11/9/2010 1235		USACE - LOUISVILLE	RAVENNA	SOLIDS,PERCENT		S	**4**	
82399	869556	DLASS-004-0001-SO	11/9/2010 1028		USACE - LOUISVILLE	RAVENNA	SOLIDS,PERCENT		S	**4**	
	877495	DLASS-004-0001-SO	11/9/2010 1028	DUP 869556			SOLIDS,PERCENT				

6 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

Commonwealth Technology, Inc.

Data Validation Checklist

LIMS #: 72192. 72193	Method: Total Solids SM2540B&G / Percent Solids SW846-5030A			
Analysis Date	Analyst / Data Interpreter	Independent Reviewer	Date of Review	Approved
12-2-10	KMB/CB	MM	12-6-10	(Yes) ... No

Instructions: Complete one checklist per *analytical run*. Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section, and may require the initiation of a Nonconformance Report.

Requirement:	Acceptance Criteria	Analyst Review		Independent Review		Comments: (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
1. Were samples analyzed within hold time?	7 days	X		X		recpt ops homogenized
2. Were samples dried overnight?	> 8hours	X				
3. Were drying start and stop times recorded?	---	X				
4. Were duplicates analyzed at the appropriate frequency?	1 per 20 of similar matrix	X				
5. Were the duplicates within acceptable limits?	Within in house QC limits	X				
6. Are all samples on the job lists accounted for?	---	X				

SUBCONTRACTED ANALYSIS DOCUMENTS

EMSL Analytical, Inc.
2001 East 52nd St., Indianapolis, IN 46205
Phone: (317) 803-2997 Fax: (317) 803-3047 Email: indianapolislab@emsl.com

Attn: **Pat Letterer**
CT Laboratories
1230 Lange Court
Baraboo, WI 53913-3109

Fax: (608) 356-2766 Phone: (608) 356-2760
Project: **NONE**

Customer ID: CTLA62
Customer PO: 82399 EMSLIN
Received: 11/12/10 9:30 AM
EMSL Order: 161019599

EMSL Proj:
Analysis Date: 11/17/2010

Test Report: PLM Analysis of Bulk Samples for Asbestos via EPA 600/R-93/116 Method with CARB 435 Prep (Milling) Level A for 0.25% Target Analytical Sensitivity

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
869552 *161019599-0001*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
869553 *161019599-0002*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
869554 *161019599-0003*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
869555 *161019599-0004*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
869556 *161019599-0005*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**

Initial report from 11/17/2010 10:00:23

Analyst(s)
Richard Harding (5)

Richard Harding, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. 2001 East 52nd St., Indianapolis IN

THIS IS THE LAST PAGE OF THE REPORT.

161019599

CT LABORATORIES

delivering more than data from your environmental analyses

1230 Lange Court • Baraboo, WI 53913 • 608-356-2760
www.ctlaboratories.com

Upon Receipt of Samples, please verify that samples were received in acceptable condition then sign this form and fax to (608)356-2766 or email to the project manager. **Sample temperature, upon receipt, must be recorded on this document unless thermal preservation is not a method requirement.**

Ship to: **EMSL Analytical Inc. - IN**
2001 East 52nd Street
Indianapolis, IN 46205

Return Invoice and Results to:

CT Laboratories
Pat Letterer
1230 Lange Court
Baraboo WI 53913
pletterer@ctlaboratories.com

PURCHASE ORDER # 82399 EMSLIN

The PO# must appear on all invoice and reports!

Date Due: 72 Hour TAT

RUSH TURNAROUND NEEDED? ***Y*** ***or*** ***N*** ***(Circle One)***

Report results as EDD? N Y (Circle one and indicate type: _____) Data Deliverable Package LEVEL: _____

✓PML 11-11-10

CTLabs ID#	Sample Date/Time	Matrix	Sample Description	Analyses / Method	Cost
869552	11/9/2010 1100	SOIL	DLASS-010-0001-SO	ASBESTOS PLM CARB 435 Level A	99.75
869553	11/9/2010 1022	SOIL	DLASS-019-0001-SO	ASBESTOS	
869554	11/9/2010 1155	SOIL	DLASS-009-0001-SO	ASBESTOS	
869555	11/9/2010 1235	SOIL	DLASS-024-0001-SO	ASBESTOS	
869556	11/9/2010 1028	SOIL	DLASS-004-0001-SO	ASBESTOS	

Relinquished by: Heather Tinmons
Date/Time: 11/11/10 1300

Received by: Heather Timmons Date/Time: 11/12/10 9:30 FX Receipt Temperature (C)

COMMENTS:

REPORT ALL SOLIDS ON A DRY WEIGHT BASIS UNLESS OTHERWISE INDICATED

161019599

EMSL Analytical, Inc.
2001 East 52nd St., Indianapolis, IN 46205
Phone: (317) 803-2997 Fax: (317) 803-3047 Email: indianapolislab@emsl.com

Attn: **Pat Letterer**
CT Laboratories
1230 Lange Court
Baraboo, WI 53913-3109

Fax: (608) 356-2766 Phone: (608) 356-2760
Project: **NONE**

Customer ID: CTLA62
Customer PO:
Received: 11/12/10 9:30 AM
EMSL Order: 161019600

EMSL Proj:
Analysis Date: 11/17/2010

Test Report: PLM Analysis of Bulk Samples for Asbestos via EPA 600/R-93/116 Method with CARB 435 Prep (Milling) Level A for 0.25% Target Analytical Sensitivity

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
870188 *161019600-0001*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
870189 *161019600-0002*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
870190 *161019600-0003*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
870191 *161019600-0004*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
870192 *161019600-0005*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
870193 *161019600-0006*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
870194 *161019600-0007*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
870195 *161019600-0008*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
870196 *161019600-0009*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**

Initial report from 11/17/2010 15:18:09

Analyst(s)
Richard Harding (25)

Richard Harding, Laboratory Manager
or other approved signatory

This report relates only to the samples listed above and may not be reproduced except in full, without EMSL's written approval. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. EMSL is not responsible for sample collection activities or method limitations. Some samples may contain asbestos fibers below the resolution limit of PLM. EMSL recommends that samples reported as none detected or less than the limit of detection undergo additional analysis via TEM. Samples received in good condition unless otherwise noted.
Samples analyzed by EMSL Analytical, Inc. 2001 East 52nd St., Indianapolis IN

EMSL Analytical, Inc.
2001 East 52nd St., Indianapolis, IN 46205
Phone: (317) 803-2997 Fax: (317) 803-3047 Email: indianapolislab@emsl.com

Attn: **Pat Letterer**
CT Laboratories
1230 Lange Court
Baraboo, WI 53913-3109

Fax: (608) 356-2766 Phone: (608) 356-2760
Project: **NONE**

Customer ID: CTLA62
Customer PO:
Received: 11/12/10 9:30 AM
EMSL Order: 161019600

EMSL Proj:
Analysis Date: 11/17/2010

Test Report: PLM Analysis of Bulk Samples for Asbestos via EPA 600/R-93/116 Method with CARB 435 Prep (Milling) Level A for 0.25% Target Analytical Sensitivity

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
870197 *161019600-0010*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
870200 *161019600-0011*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
870201 *161019600-0012*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
870202 *161019600-0013*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
870203 *161019600-0014*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
870204 *161019600-0015*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
870207 *161019600-0016*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
870208 *161019600-0017*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
870209 *161019600-0018*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**

Initial report from 11/17/2010 15:18:09

Analyst(s)
Richard Harding (25)

Richard Harding, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. 2001 East 52nd St., Indianapolis IN

EMSL Analytical, Inc.
2001 East 52nd St., Indianapolis, IN 46205
Phone: (317) 803-2997 Fax: (317) 803-3047 Email: indianapolislab@emsl.com

Attn: **Pat Letterer**
CT Laboratories
1230 Lange Court
Baraboo, WI 53913-3109

Fax: (608) 356-2766 Phone: (608) 356-2760
Project: **NONE**

Customer ID: CTLA62
Customer PO:
Received: 11/12/10 9:30 AM
EMSL Order: 161019600

EMSL Proj:
Analysis Date: 11/17/2010

Test Report: PLM Analysis of Bulk Samples for Asbestos via EPA 600/R-93/116 Method with CARB 435 Prep (Milling) Level A for 0.25% Target Analytical Sensitivity

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
870210 *161019600-0019*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
870211 *161019600-0020*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
870212 *161019600-0021*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
870213 *161019600-0022*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
870214 *161019600-0023*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
870215 *161019600-0024*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
870216 *161019600-0025*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**

Initial report from 11/17/2010 15:18:09

Analyst(s)
Richard Harding (25)

Richard Harding, Laboratory Manager
or other approved signatory

This report relates only to the samples listed above and may not be reproduced except in full, without EMSL's written approval. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. EMSL is not responsible for sample collection activities or method limitations. Some samples may contain asbestos fibers below the resolution limit of PLM. EMSL recommends that samples reported as none detected or less than the limit of detection undergo additional analysis via TEM. Samples received in good condition unless otherwise noted.
Samples analyzed by EMSL Analytical, Inc. 2001 East 52nd St., Indianapolis IN

THIS IS THE LAST PAGE OF THE REPORT.

161019600

CT LABORATORIES
delivering more than data from your environmental analyses

1230 Lange Court • Baraboo, WI 53913 • 608-356-2760
www.ctlaboratories.com

Upon Receipt of Samples, please verify that samples were received in acceptable condition then sign this form and fax to (608)356-2766 or email to the project manager. **Sample temperature, upon receipt, must be recorded on this document unless thermal preservation is not a method requirement.**

Ship to: **EMSL Analytical Inc. - IN**
2001 East 52nd Street
Indianapolis, IN 46205

Return Invoice and Results to:

CT Laboratories
Pat Letterer
1230 Lange Court
Baraboo WI 53913
pletterer@ctlaboratories.com

PURCHASE ORDER # 82424 EMSLIN

The PO# must appear on all invoice and reports!

Date Due: 72 HOUR TAT

RUSH TURNAROUND NEEDED? Y or N ***(Circle One)***

Report results as EDD? N Y (Circle one and indicate type: _____) Data Deliverable Package LEVEL:_____

PML 11-1-10

CTLabs ID#	Sample Date/Time	Matrix	Sample Description	Analyses / Method	Cost
870188	11/10/2010 0955	SOIL	DLASS-027-0001-SO	ASBESTOS PLM CARB 435 Level A	99.75
870189	11/10/2010 1015	SOIL	DLASS-002-0001-SO	ASBESTOS	
870190	11/10/2010 1225	SOIL	DLASS-018-0001-SO	ASBESTOS	
870191	11/10/2010 1030	SOIL	DLASS-001-0001-SO	ASBESTOS	
870192	11/10/2010 1405	SOIL	DLASS-016-0001-SO	ASBESTOS	
870193	11/10/2010 1330	SOIL	DLASS-017-0001-SO	ASBESTOS	
870194	11/9/2010 1220	SOIL	DLASS-022-0001-SO	ASBESTOS	
870195	11/9/2010 1230	SOIL	DLASS-022-0003-SO	ASBESTOS	
870196	11/9/2010 1100	SOIL	DLASS-008-0001-SO	ASBESTOS	
870197	11/9/2010 1030	SOIL	DLASS-021-0001-SO	ASBESTOS	

161019600

870200	11/9/2010	0920	SOIL	DLASS-005-0001-SO	ASBESTOS	PLM CARB 435 Level A	99.75
870201	11/9/2010	1525	SOIL	DLASS-014-0001-SO	ASBESTOS		
870202	11/9/2010	1500	SOIL	DLASS-011-0001-SO	ASBESTOS		
870203	11/9/2010	1535	SOIL	DLASS-014-0003-SO	ASBESTOS		
870204	11/10/2010	1316	SOIL	DLASS-030-0001-SO	ASBESTOS		
870207	11/9/2010	1600	SOIL	DLASS-026-0001-SO	ASBESTOS		
870208	11/9/2010	1620	SOIL	DLASS-029-0001-SO	ASBESTOS		
870209	11/9/2010	0900	SOIL	DLASS-007-0001-SO	ASBESTOS		
870210	11/9/2010	1000	SOIL	DLASS-020-0001-SO	ASBESTOS		
870211	11/9/2010	1549	SOIL	DLASS-028-0001-SO	ASBESTOS		
870212	11/10/2010	1025	SOIL	DLASS-002-0003-SO	ASBESTOS		
870213	10/9/2010	1630	SOIL	DLASS-012-0001-SO	ASBESTOS		
870214	10/9/2010	1500	SOIL	DLASS-025-0001-SO	ASBESTOS		
870215	10/9/2010	0900	SOIL	DLASS-006-0001-SO	ASBESTOS		
870216	10/9/2010	1458	SOIL	DLASS-013-0001-SO	ASBESTOS		

Relinquished by: [signature]
Date/Time: 11/11/10 1300

Received by: Kathy Simmons Date/Time: 11/12/10 9:30 FX Receipt Temperature (C)

COMMENTS:

REPORT ALL SOLIDS ON A DRY WEIGHT BASIS UNLESS OTHERWISE INDICATED

158 Starlite Drive, Marietta, OH 45750 • T:740-373-4071 • F:740-373-4835 • http://www.microbac.com

Laboratory Report Number: L10120103

Client: Patrick Letterer, 1230 Lange Court, Baraboo, WI, 53913

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories.

Review and compilation of your report was completed by Microbac's Sales and Service Team. If you have questions, comments or require further assistance regarding this report, please contact your team member noted in the reviewed box below at 800-373-4071. Team member e-mail addresses also appear here for your convenience.

Kathy Albertson	*Team Chemist/Data Specialist*	Kathy.Albertson@microbac.com
Stephanie Mossburg	*Team Chemist/Data Specialist*	Stephanie.Mossburg@microbac.com
Tony Long	*Team Chemist/Data Specialist*	Tony.Long@microbac.com
Amanda Fickiesen	*Client Services Specialist*	Amanda.Fickiesen@microbac.com
Annie Brown	*Client Services Specialist*	Annie.Brown@microbac.com

This report was reviewed on December 15, 2010.

Stephanie Mossburg - Team Chemist/Data Specialist

I certify that all test results meet all of the requirements of the accrediting authority listed below. All results for soil samples are reported on a 'dry-weight' basis unless specified otherwise. Analytical results for water and wastes are reported on a 'as received' basis unless specified otherwise. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories. The reported results are related only to the samples analyzed as received.

This report was certified on December 15, 2010.

David Vandenberg - Managing Director

State of origin: Wisconsin
Accrediting authority: Department of Natural Resources ID:998202040
QAPP: DOD Ver 4.1
This report contains a total of 151 pages.

Look closer. Go further. Do more.

Microbac REPORT L10120103
PREPARED FOR CT Laboratories
WORK ID:

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1.0 Introduction

LABORATORY REPORT

L10120103

12/15/10 08:40

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: CT Laboratories
1230 Lange Court

Baraboo, WI 53913
Attention: Patrick Letterer

Project Number: 2694.006
Project: CT Labs
Site: CT LABS

Sample Summary

Client ID	Lab ID	Date Collected	Date Received
DLASS-002-0001-SO	L10120103-01	11/10/2010 10:15	12/03/2010
DLASS-022-0001-SO	L10120103-02	11/09/2010 12:20	12/03/2010
DLASS-022-0003-SO	L10120103-03	11/09/2010 12:30	12/03/2010
DLASS-002-0003-SO	L10120103-04	11/10/2010 10:25	12/03/2010

Login Number: L10120103

Department: Login

Analyst: N/A
Analyst #2: N/A

Chain of Custody:

Shipment Conditions

COC #	Cooler #	Temperature
	0015338	1.0

Sample Management: All samples were received intact.

Sample Identification

Lab ID	Client ID
L10120103-01	DLASS-002-0001-SO
L10120103-02	DLASS-022-0001-SO
L10120103-03	DLASS-022-0003-SO
L10120103-04	DLASS-002-0003-SO

Narrative ID: 16740
Approved By: Stephanie Mossburg
Stephanie Mossburg

2.0 Full Sample Data Package

2.1 Semivolatiles Data

2.1.1 Pesticide GC Data (8081)

2.1.1.1 Summary Data

Microbac Laboratories Inc.
GC PESTICIDES

Microbac Login No: L10120103

METHOD

Preparation: SW- 846 3550B(Soils)/3510C(Waters)/3580A (Waste dilution)

Analysis: SW-846 8081

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: For all compounds which yielded a %RSD greater than 20 %, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Continuing Calibration: All acceptance criteria were met.

BATCH QA/QC

Method Blank: The blank yielded a % recovery for the surrogate 2,4,5,6-tetrachloro-m-xylene that was below the acceptance limit. All other acceptance criteria were met.

Labortory Control Sample: The LCS and LCS DUP yielded % recoveries for the surrogate 2,4,5,6-tetrachloro-m-xylene that were below the acceptance limit. All other acceptance criteria were met.

Matrix Spikes: There were no MS/MSD results associated with this sample delivery group, due to insufficient volume of sample. The laboratory included an LCS and LCS duplicate in the preparation batch in lieu of the NELAC prescribed MS/MSD. Microbac recommends site specific MS/MSD samples to avoid possible data qualification.

SAMPLES

Surrogates: Samples 01 and 04 yielded % recoveries for 2,4,5,6-tetrachloro-m-xylene that were below the acceptance limit. Sample 03 yielded a % recovery for 2,4,5,6-tetrachloro-m-xylene that was above the acceptance limit. All other acceptance criteria were met.

Endrin/DDT Breakdown: All acceptance criteria were met.

Samples: For all samples which yielded results with an RPD of greater than 40% between the primary and confirmation column the appropriate flag was applied. All acceptance criteria were met.

Manual Integration Reason Codes

Microbac laboratory management has identified four general cases with valid reasons supporting the use of manual integration techniques.

Reason #1: Data System Fails to Select Correct Peak
In some cases the chromatography system selects and integrates the ”wrong peak”. In this case the analyst must correct the selection and force the system to integrate the proper peak. Other times the system may miss the peak completely.

Reason #2: Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak.
This phenomena is common at low concentrations where the signal:noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low area counts for the target compound.

Reason #3: Improperly Integrated Isomers and/or coeluting compounds.
This system often fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations are wrong, and they must be corrected by manual integration. Prime examples are benzo(k)fluoranthene and benzo(b)fluoranthene which are often unresolved and integrated improperly when both are present at low concentrations in standards or samples.

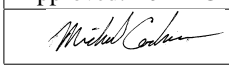
Reason #4: System Establishes Incorrect Baseline
There are numerous situations in chromatography where the system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and should be corrected via manual procedures.

Reason #5: Miscellaneous
Other situations involving integration errors may require in-depth review and technical judgment. These cases should be brought to the attention of the laboratory management. If the form of manual integration is not clearly covered by these four cases, then review and approval by the Laboratory Director or the QA/QC Supervisor will be required.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: ECL

Approved: 10-DEC-10



LABORATORY REPORT

L10120103

12/15/10 08:40

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: CT Laboratories
1230 Lange Court

Baraboo, WI 53913
Attention: Patrick Letterer

Project Number: 2694.006
Project: CT Labs
Site: CT LABS

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
DLASS-002-0001-SO	L10120103-01	8081A	1	03-DEC-10
DLASS-022-0001-SO	L10120103-02	8081A	1	03-DEC-10
DLASS-022-0003-SO	L10120103-03	8081A	1	03-DEC-10
DLASS-002-0003-SO	L10120103-04	8081A	1	03-DEC-10

Report Number: **L10120103**

Report Date : **December 15, 2010**

Sample Number: **L10120103-01**
Client ID: **DLASS-002-0001-SO**
Matrix: **Soil**
Workgroup Number: **WG350781**
Collect Date: **11/10/2010 10:15**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3550B**
Analytical Method: **8081A**
Analyst: **ECL**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP15**
Prep Date: **12/06/2010 13:40**
Cal Date: **09/27/2010 22:14**
Run Date: **12/09/2010 10:58**
File ID: **15G24349.F**
Percent Solid: **97.9**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
4,4'-DDD	72-54-8		UQ	1.71	0.341
4,4'-DDE	72-55-9		UQ	1.71	0.341
4,4'-DDT	50-29-3		UQ	1.71	0.341
Aldrin	309-00-2		UQ	1.71	0.341
alpha Chlordane	5103-71-9		UQ	1.71	0.341
alpha-BHC	319-84-6		UQ	1.71	0.341
beta-BHC	319-85-7		UQ	1.71	0.341
delta-BHC	319-86-8		UQ	1.71	0.341
Dieldrin	60-57-1		UQ	1.71	0.341
Endosulfan I	959-98-8		UQ	1.71	0.341
Endosulfan II	33213-65-9		UQ	1.71	0.341
Endosulfan sulfate	1031-07-8		UQ	1.71	0.341
Endrin	72-20-8		UQ	1.71	0.341
Endrin aldehyde	7421-93-4		UQ	1.71	0.341
Endrin ketone	53494-70-5		UQ	1.71	0.341
gamma Chlordane	5103-74-2		UQ	1.71	0.341
gamma-BHC (Lindane)	58-89-9		UQ	1.71	0.341
Heptachlor	76-44-8		UQ	1.71	0.341
Heptachlor epoxide	1024-57-3		UQ	1.71	0.341
Methoxychlor	72-43-5		UQ	1.71	0.341
Toxaphene	8001-35-2		UQ	34.1	17.3

Surrogate	% Recovery	Lower	Upper	Qual
2,4,5,6-Tetrachloro-m-xylene	58.0	70	125	*
Decachlorobiphenyl	75.3	55	130	

UQ Undetected; the analyte was analyzed for, but not detected.
* Surrogate or spike compound out of range

Report Number: **L10120103**

Report Date : **December 15, 2010**

Sample Number:	L10120103-02	PrePrep Method:	NONE	Instrument:	HP15
Client ID:	DLASS-022-0001-SO	Prep Method:	3550B	Prep Date:	12/06/2010 13:40
Matrix:	Soil	Analytical Method:	8081A	Cal Date:	09/27/2010 22:14
Workgroup Number:	WG350781	Analyst:	ECL	Run Date:	12/09/2010 11:27
Collect Date:	11/09/2010 12:20	Dilution:	1	File ID:	15G24350.F
Sample Tag:	01	Units:	ug/kg	Percent Solid:	98.3

Analyte	CAS. Number	Result	Qual	LOQ	LOD
4,4'-DDD	72-54-8		U	1.75	0.350
4,4'-DDE	72-55-9		U	1.75	0.350
4,4'-DDT	50-29-3		U	1.75	0.350
Aldrin	309-00-2		U	1.75	0.350
alpha Chlordane	5103-71-9		U	1.75	0.350
alpha-BHC	319-84-6		U	1.75	0.350
beta-BHC	319-85-7		U	1.75	0.350
delta-BHC	319-86-8		U	1.75	0.350
Dieldrin	60-57-1		U	1.75	0.350
Endosulfan I	959-98-8		U	1.75	0.350
Endosulfan II	33213-65-9		U	1.75	0.350
Endosulfan sulfate	1031-07-8		U	1.75	0.350
Endrin	72-20-8		U	1.75	0.350
Endrin aldehyde	7421-93-4		U	1.75	0.350
Endrin ketone	53494-70-5		U	1.75	0.350
gamma Chlordane	5103-74-2		U	1.75	0.350
gamma-BHC (Lindane)	58-89-9		U	1.75	0.350
Heptachlor	76-44-8		U	1.75	0.350
Heptachlor epoxide	1024-57-3		U	1.75	0.350
Methoxychlor	72-43-5		U	1.75	0.350
Toxaphene	8001-35-2		U	35.0	17.7

Surrogate	% Recovery	Lower	Upper	Qual
2,4,5,6-Tetrachloro-m-xylene	74.2	70	125	
Decachlorobiphenyl	69.0	55	130	

U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L10120103**

Report Date : **December 15, 2010**

Sample Number:	L10120103-03	PrePrep Method:	NONE	Instrument:	HP15
Client ID:	DLASS-022-0003-SO	Prep Method:	3550B	Prep Date:	12/06/2010 13:40
Matrix:	Soil	Analytical Method:	8081A	Cal Date:	09/27/2010 22:14
Workgroup Number:	WG350781	Analyst:	ECL	Run Date:	12/09/2010 11:55
Collect Date:	11/09/2010 12:30	Dilution:	1	File ID:	15G24351.F
Sample Tag:	01	Units:	ug/kg	Percent Solid:	98.5

Analyte	CAS. Number	Result	Qual	LOQ	LOD
4,4'-DDD	72-54-8		UQ	1.76	0.352
4,4'-DDE	72-55-9		UQ	1.76	0.352
4,4'-DDT	50-29-3		UQ	1.76	0.352
Aldrin	309-00-2		UQ	1.76	0.352
alpha Chlordane	5103-71-9		UQ	1.76	0.352
alpha-BHC	319-84-6		UQ	1.76	0.352
beta-BHC	319-85-7		UQ	1.76	0.352
delta-BHC	319-86-8		UQ	1.76	0.352
Dieldrin	60-57-1		UQ	1.76	0.352
Endosulfan I	959-98-8		UQ	1.76	0.352
Endosulfan II	33213-65-9		UQ	1.76	0.352
Endosulfan sulfate	1031-07-8		UQ	1.76	0.352
Endrin	72-20-8		UQ	1.76	0.352
Endrin aldehyde	7421-93-4		UQ	1.76	0.352
Endrin ketone	53494-70-5		UQ	1.76	0.352
gamma Chlordane	5103-74-2		UQ	1.76	0.352
gamma-BHC (Lindane)	58-89-9		UQ	1.76	0.352
Heptachlor	76-44-8		UQ	1.76	0.352
Heptachlor epoxide	1024-57-3		UQ	1.76	0.352
Methoxychlor	72-43-5		UQ	1.76	0.352
Toxaphene	8001-35-2		UQ	35.2	17.8

Surrogate	% Recovery	Lower	Upper	Qual
2,4,5,6-Tetrachloro-m-xylene	137	70	125	*
Decachlorobiphenyl	81.2	55	130	

UQ Undetected; the analyte was analyzed for, but not detected.

* Surrogate or spike compound out of range

Report Number: **L10120103**

Report Date : **December 15, 2010**

Sample Number: **L10120103-04**
Client ID: **DLASS-002-0003-SO**
Matrix: **Soil**
Workgroup Number: **WG350781**
Collect Date: **11/10/2010 10:25**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3550B**
Analytical Method: **8081A**
Analyst: **ECL**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP15**
Prep Date: **12/06/2010 13:40**
Cal Date: **09/27/2010 22:14**
Run Date: **12/09/2010 12:23**
File ID: **15G24352.F**
Percent Solid: **98.5**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
4,4'-DDD	72-54-8		UQ	1.67	0.335
4,4'-DDE	72-55-9		UQ	1.67	0.335
4,4'-DDT	50-29-3		UQ	1.67	0.335
Aldrin	309-00-2		UQ	1.67	0.335
alpha Chlordane	5103-71-9		UQ	1.67	0.335
alpha-BHC	319-84-6		UQ	1.67	0.335
beta-BHC	319-85-7		UQ	1.67	0.335
delta-BHC	319-86-8		UQ	1.67	0.335
Dieldrin	60-57-1		UQ	1.67	0.335
Endosulfan I	959-98-8		UQ	1.67	0.335
Endosulfan II	33213-65-9		UQ	1.67	0.335
Endosulfan sulfate	1031-07-8		UQ	1.67	0.335
Endrin	72-20-8		UQ	1.67	0.335
Endrin aldehyde	7421-93-4		UQ	1.67	0.335
Endrin ketone	53494-70-5		UQ	1.67	0.335
gamma Chlordane	5103-74-2		UQ	1.67	0.335
gamma-BHC (Lindane)	58-89-9		UQ	1.67	0.335
Heptachlor	76-44-8		UQ	1.67	0.335
Heptachlor epoxide	1024-57-3		UQ	1.67	0.335
Methoxychlor	72-43-5		UQ	1.67	0.335
Toxaphene	8001-35-2		UQ	33.5	16.9

Surrogate	% Recovery	Lower	Upper	Qual
2,4,5,6-Tetrachloro-m-xylene	68.0	70	125	*
Decachlorobiphenyl	77.2	55	130	

UQ Undetected; the analyte was analyzed for, but not detected.
* Surrogate or spike compound out of range

2.1.1.2 QC Summary Data

Example 8081 Calculations

1.0 Calculating the Response Factor (RF) from the initial calibration (ICAL) data:

$$RF = \frac{As}{Cs}$$

where:	Example:
A_s = Area of the compound being measured in the standard	10000
C_s = Concentration of the compound being measured (ng/mL)	100
	RF = 100

2.0 Calculating the concentration (C) of a compound in water using data from prep log and quantitation report:*

$$C = \frac{(A_x)(Vf)(D)}{(RF)(Vi)}$$

where:	Example:
A_x = Area of the compound begin measured	10000
Vf = Final volume of sample extract (mL). (prep log)	1
D = Dilution factor for sample as a multiplier (10X=10)	1
RF = Response factor from ICAL calculated above.	100
Vi = Initial volume of sample (mL). (prep log)	1000
	C(ug/L) = 0.1

3.0 Calculating the concentration (C) of a compound in soil using data from prep log and quantitation report:*

$$C = \frac{(A_x)(Vf)(D)}{(RF)(Wi)}$$

where:	Example:
A_x = Area of the compound begin measured	10000
Vf = Final volume of sample extract (mL). (prep log)	1
D = Dilution factor for sample as a multiplier (10X=10)	1
RF = Response factor from ICAL calculated above.	100
Wi = Initial weight of sample (g).	30
	C(ug/kg) = 3.333333

* Concentrations appearing on instrument quantitation reports are on-column results and do not take into account initial volume, final volume and dilution factor.

Microbac Laboratories Inc.
Sample Extract Log

Workgroup: WG350553
Analyst: CPD
Spike Analyst: CPD
Method: 3550B
Run Date: 12/06/2010 13:40
SOP: EXP02 Revison 15
Spike Witness: RAH
Surr Solution: STD42482

Hexane Lot #: COA14969
Purified Lab Sand Lot #: COA14882
Na2SO4, Anhydrous,Powder Lot #: COA14768
Sodium Sulfate,Anhydrous,Granular (Lot #: COA14988
Florisil Disposable Column Lot #: COA14997
94:6 Hexane:Ether Lot #: RGT15506
50:50 Hexane:Ether Lot #: RGT15509

	SAMPLE #	Type	Reference	pH	Prod	Init Amnt	Surr Amnt	Spike Amnt	Spike Sol	Final Vol	Color
1	L10120074-01	SAMP			8081	30.77 g	.2 mL			10 mL	Transparent
2	L10120074-02	SAMP			8081	30.55 g	.2 mL			10 mL	Transparent
3	L10120074-03	SAMP			8081	30.34 g	.2 mL			10 mL	Transparent
4	L10120074-04	SAMP			8081	30.47 g	.2 mL			10 mL	Transparent
5	L10120074-05	SAMP			8081	30.68 g	.2 mL			10 mL	Transparent
6	L10120074-06	SAMP			8081	30.68 g	.2 mL			10 mL	Transparent
7	L10120074-07	SAMP			8081	30.63 g	.2 mL			10 mL	Transparent
8	L10120074-08	SAMP			8081	30.11 g	.2 mL			10 mL	Transparent
9	L10120074-09	SAMP			8081	30.18 g	.2 mL			10 mL	Transparent
10	L10120074-10	SAMP			8081	30.18 g	.2 mL			10 mL	Transparent
11	L10120074-11	SAMP			8081	27.79 g	.2 mL			10 mL	Transparent
12	L10120103-01	SAMP			8081	29.63 g	.2 mL			10 mL	Colored
13	L10120103-02	SAMP			8081	28.75 g	.2 mL			10 mL	Transparent
14	L10120103-03	SAMP			8081	28.57 g	.2 mL			10 mL	Transparent
15	L10120103-04	SAMP			8081	30.05 g	.2 mL			10 mL	Colored
16	WG350553-01	BLANK			8081	30 g	.2 mL			10 mL	Transparent
17	WG350553-02	LCS			8081	30 g	.2 mL	.25 mL	STD42746	10 mL	Transparent
18	WG350553-03	LCS2			8081	30 g	.2 mL	.25 mL	STD42746	10 mL	Transparent
19	WG350553-04	LCS_TOX			8081	30 g	.2 mL	.1 mL	STD40740	10 mL	Transparent

Due to insufficient sample volume, this preparation batch failed to include the method prescribed MS and MSD.

Clean-ups	
Florisil	3620B

Analyst:

Reviewer:

EXTRACT - Modified 10/22/2008
PDF ID: 1859989
Report generated: 12/07/2010 16:46

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP15 Dataset: 092710
Analyst1: ECL Analyst2: NA
Method: 8081 SOP: GCS09 Rev: 12

Maintenance Log ID: 34722 Syringe Filter Lot#:

Column 1 ID: RTX-CLP Column 2 ID: RTX-CLP2

Workgroups:

CCV Std: STD40207 LCS STD: STD39880
Internal STD: NA Surrogate STD: STD39847 Calibration STD

Comments:

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	15G23690.F	ENDRIN/DDT	1	1	STD39983	09/27/10 12:35
2	15G23690.R	ENDRIN/DDT	1	1	STD39983	09/27/10 13:04
3	15G23691.F	TOX 10 PPM	1	1	STD40827	09/27/10 14:11
4	15G23691.R	TOX 10 PPM	1	1	STD40827	09/27/10 14:39
5	15G23692.F	CHLOR 10 PPM	1	1	STD40825	09/27/10 14:39
6	15G23692.R	CHLOR 10 PPM	1	1	STD40825	09/27/10 15:07
7	15G23693.F	TOX 10 PPM	1	1	STD40827	09/27/10 15:07
8	15G23693.R	TOX 10 PPM	1	1	STD40827	09/27/10 15:36
9	15G23694.F	CHLOR 10 PPM	1	1	STD40825	09/27/10 15:36
10	15G23694.R	CHLOR 10 PPM	1	1	STD40825	09/27/10 16:04
11	15G23695.F	WG343905-01 ENDRIN/DDT	1	1	STD39983	09/27/10 16:04
12	15G23695.R	WG343905-01 ENDRIN/DDT	1	1	STD39983	09/27/10 16:34
13	15G23696.F	WG343903-01 TOX ICAL 2000 PPB	1	1	STD40827	09/27/10 16:34
14	15G23696.R	WG343903-01 TOX ICAL 2000 PPB	1	1	STD40827	09/27/10 17:02
15	15G23697.F	WG343903-02 TOX ICAL 1000 PPB	1	1	STD40827	09/27/10 17:02
16	15G23697.R	WG343903-02 TOX ICAL 1000 PPB	1	1	STD40827	09/27/10 17:30
17	15G23698.F	WG343903-03 TOX ICAL 500 PPB	1	1	STD40827	09/27/10 17:30
18	15G23698.R	WG343903-03 TOX ICAL 500 PPB	1	1	STD40827	09/27/10 17:59
19	15G23699.F	WG343903-04 TOX ICAL 200 PPB	1	1	STD40827	09/27/10 17:59
20	15G23699.R	WG343903-04 TOX ICAL 200 PPB	1	1	STD40827	09/27/10 18:27
21	15G23700.F	WG343903-05 TOX ICAL 100 PPB	1	1	STD40827	09/27/10 18:27
22	15G23700.R	WG343903-05 TOX ICAL 100 PPB	1	1	STD40827	09/27/10 18:55
23	15G23701.F	WG343903-06 TOX ALT 500 PPB	1	1	STD40828	09/27/10 18:55
24	15G23701.R	WG343903-06 TOX ALT 500 PPB	1	1	STD40828	09/27/10 19:24
25	15G23702.F	WG343902-01 PEST ICAL 200 PPB	1	1	STD40207	09/27/10 19:24
26	15G23702.R	WG343902-01 PEST ICAL 200 PPB	1	1	STD40207	09/27/10 19:52
27	15G23703.F	WG343902-02 PEST ICAL 100 PPB	1	1	STD40207	09/27/10 19:52
28	15G23703.R	WG343902-02 PEST ICAL 100 PPB	1	1	STD40207	09/27/10 20:21
29	15G23704.F	WG343902-03 PEST ICAL 20 PPB	1	1	STD40207	09/27/10 20:21
30	15G23704.R	WG343902-03 PEST ICAL 20 PPB	1	1	STD40207	09/27/10 20:49
31	15G23705.F	WG343902-04 PEST ICAL 10 PPB	1	1	STD40207	09/27/10 20:49
32	15G23705.R	WG343902-04 PEST ICAL 10 PPB	1	1	STD40207	09/27/10 21:18
33	15G23706.F	WG343902-05 PEST ICAL 4 PPB	1	1	STD40207	09/27/10 21:18
34	15G23706.R	WG343902-05 PEST ICAL 4 PPB	1	1	STD40207	09/27/10 21:46

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP15 Dataset: 092710
Analyst1: ECL Analyst2: NA
Method: 8081 SOP: GCS09 Rev: 12

Maintenance Log ID: 34722 Syringe Filter Lot#:

Column 1 ID: RTX-CLP Column 2 ID: RTX-CLP2

Workgroups:

CCV Std: STD40207 LCS STD: STD39880
Internal STD: NA Surrogate STD: STD39847

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
35	15G23707.F	WG343902-06 PEST ICAL 1 PPB	1	1	STD40207	09/27/10 21:46
36	15G23707.R	WG343902-06 PEST ICAL 1 PPB	1	1	STD40207	09/27/10 22:14
37	15G23708.F	WG343902-07 PEST ALT 20 PPB	1	1	STD38730	09/27/10 22:14
38	15G23708.R	WG343902-07 PEST ALT 20 PPB	1	1	STD38730	09/27/10 22:43
39	15G23709.F	WG343904-01 CHLOR ICAL 2000 PPB	1	1	STD40825	09/27/10 22:43
40	15G23709.R	WG343904-01 CHLOR ICAL 2000 PPB	1	1	STD40825	09/27/10 23:11
41	15G23710.F	WG343904-02 CHLOR ICAL 1000 PPB	1	1	STD40825	09/27/10 23:11
42	15G23710.R	WG343904-02 CHLOR ICAL 1000 PPB	1	1	STD40825	09/27/10 23:39
43	15G23711.F	WG343904-03 CHLOR ICAL 500 PPB	1	1	STD40825	09/27/10 23:39
44	15G23711.R	WG343904-03 CHLOR ICAL 500 PPB	1	1	STD40825	09/28/10 00:08
45	15G23712.F	WG343904-04 CHLOR ICAL 200 PPB	1	1	STD40825	09/28/10 00:08
46	15G23712.R	WG343904-04 CHLOR ICAL 200 PPB	1	1	STD40825	09/28/10 00:36
47	15G23713.F	WG343904-05 CHLOR ICAL 100 PPB	1	1	STD40825	09/28/10 00:36
48	15G23713.R	WG343904-05 CHLOR ICAL 100 PPB	1	1	STD40825	09/28/10 01:04
49	15G23714.F	WG343521-01 BLANK	1	1		09/28/10 01:04
50	15G23714.R	WG343521-01 BLANK	1	1		09/28/10 01:33
51	15G23715.F	WG343521-02 LCS	1	1		09/28/10 01:33
52	15G23715.R	WG343521-02 LCS	1	1		09/28/10 02:01
53	15G23716.F	WG343521-03 LCS DUP	1	1		09/28/10 02:01
54	15G23716.R	WG343521-03 LCS DUP	1	1		09/28/10 02:29
55	15G23717.F	WG343521-04 TOX LCS	1	1		09/28/10 02:29
56	15G23717.R	WG343521-04 TOX LCS	1	1		09/28/10 02:58
57	15G23718.F	WG343521-05 CHLOR LCS	1	1		09/28/10 02:58
58	15G23718.R	WG343521-05 CHLOR LCS	1	1		09/28/10 03:26
59	15G23719.F	L10090495-06	1	1		09/28/10 03:26
60	15G23719.R	L10090495-06	1	1		09/28/10 03:54
61	15G23720.F	WG343905-02 ENDRIN/DDT	1	1	STD39983	09/28/10 03:54
62	15G23720.R	WG343905-02 ENDRIN/DDT	1	1	STD39983	09/28/10 04:23
63	15G23721.F	WG343905-03 PEST CCV 20 PPB	1	1	STD40207	09/28/10 04:23
64	15G23721.R	WG343905-03 PEST CCV 20 PPB	1	1	STD40207	09/28/10 04:51
65	15G23722.F	WG343906-01 TOX CCV 500 PPB	1	1	STD40827	09/28/10 04:51
66	15G23722.R	WG343906-01 TOX CCV 500 PPB	1	1	STD40827	09/28/10 05:19
67	15G23723.F	WG343907-01 CHLOR CCV 500 PPB	1	1	STD40827	09/28/10 05:19
68	15G23723.R	WG343907-01 CHLOR CCV 500 PPB	1	1	STD40827	09/28/10 05:48

Comments

Seq.	Rerun	Dil.	Reason	Analytes

Page: 2 Approved: 01-OCT-10

Hema Vilasagar

Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP15 Dataset: 120810
Analyst1: ECL Analyst2: NA
Method: 8081 SOP: GCS09 Rev: 12

Maintenance Log ID: Syringe Filter Lot#:

Column 1 ID: RTX-CLP Column 2 ID: RTX-CLP2
Workgroups:

CCV Std: STD40207 LCS STD: STD42746
Internal STD: NA Surrogate STD: STD42482 Calibration STD

Comments:

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	15G24298.F	WG350839-01 ENDRIN/DDT	1	1	STD39983	12/08/10 09:50
2	15G24298.R	WG350839-01 ENDRIN/DDT	1	1	STD39983	12/08/10 10:18
3	15G24299.F	WG350839-02 PEST CCV 20 PPB	1	1	STD40207	12/08/10 10:18
4	15G24299.R	WG350839-02 PEST CCV 20 PPB	1	1	STD40207	12/08/10 10:47
5	15G24300.F	ELAB PEST SPIKE 20 PPB	1	1	STD42746	12/08/10 11:52
6	15G24300.R	ELAB PEST SPIKE 20 PPB	1	1	STD42746	12/08/10 12:20
7	15G24301.F	WG350840-01 TOX CCV 500 PPB	1	1	STD40827	12/08/10 12:20
8	15G24301.R	WG350840-01 TOX CCV 500 PPB	1	1	STD40827	12/08/10 12:48
9	15G24302.F	WG350842-01 CHLOR CCV 500 PPB	1	1	STD40825	12/08/10 12:48
10	15G24302.R	WG350842-01 CHLOR CCV 500 PPB	1	1	STD40825	12/08/10 13:17
11	15G24303.F	WG350627-01 BLANK	2	1		12/08/10 13:17
12	15G24303.R	WG350627-01 BLANK	2	1		12/08/10 13:45
13	15G24304.F	WG350627-02 LCS	2	1		12/08/10 13:45
14	15G24304.R	WG350627-02 LCS	2	1		12/08/10 14:13
15	15G24305.F	WG350627-03 LCS DUP	2	1		12/08/10 14:13
16	15G24305.R	WG350627-03 LCS DUP	2	1		12/08/10 14:42
17	15G24306.F	L10120048-01	2	1		12/08/10 14:42
18	15G24306.R	L10120048-01	2	1		12/08/10 15:10
19	15G24307.F	WG350645-01 BLANK	1	1		12/08/10 15:10
20	15G24307.R	WG350645-01 BLANK	1	1		12/08/10 15:38
21	15G24308.F	WG350645-02 LCS	1	1		12/08/10 15:38
22	15G24308.R	WG350645-02 LCS	1	1		12/08/10 16:07
23	15G24309.F	WG350645-03 LCS DUP	1	1		12/08/10 16:07
24	15G24309.R	WG350645-03 LCS DUP	1	1		12/08/10 16:35
25	15G24310.F	WG350645-06 TOX LCS	1	1		12/08/10 16:35
26	15G24310.R	WG350645-06 TOX LCS	1	1		12/08/10 17:04
27	15G24311.F	WG350645-07 CHLOR LCS	1	1		12/08/10 17:04
28	15G24311.R	WG350645-07 CHLOR LCS	1	1		12/08/10 17:32
29	15G24312.F	L10120087-17	2	1		12/08/10 17:32
30	15G24312.R	L10120087-17	2	1		12/08/10 18:00
31	15G24313.F	WG350839-03 PEST CCV 10 PPB	1	1	STD40207	12/08/10 18:00
32	15G24313.R	WG350839-03 PEST CCV 10 PPB	1	1	STD40207	12/08/10 18:28
33	15G24314.F	WG350840-02 TOX CCV 200 PPB	1	1	STD40827	12/08/10 18:28
34	15G24314.R	WG350840-02 TOX CCV 200 PPB	1	1	STD40827	12/08/10 18:57

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP15 Dataset: 120810
Analyst1: ECL Analyst2: NA
Method: 8081 SOP: GCS09 Rev: 12

Maintenance Log ID: Syringe Filter Lot#:

Column 1 ID: RTX-CLP Column 2 ID: RTX-CLP2

Workgroups:

CCV Std: STD40207 LCS STD: STD42746
Internal STD: NA Surrogate STD: STD42482

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
35	15G24315.F	WG350842-02 CHLOR CCV 500 PPB	1	1	STD40827	12/08/10 18:57
36	15G24315.R	WG350842-02 CHLOR CCV 500 PPB	1	1	STD40827	12/08/10 19:25
37	15G24316.F	WG350645-04 LCS3	1	1		12/08/10 19:25
38	15G24316.R	WG350645-04 LCS3	1	1		12/08/10 19:53
39	15G24317.F	WG350645-05 LCS4	1	1		12/08/10 19:53
40	15G24317.R	WG350645-05 LCS4	1	1		12/08/10 20:22
41	15G24318.F	L10120049-01	1	1		12/08/10 20:22
42	15G24318.R	L10120049-01	1	1		12/08/10 20:50
43	15G24319.F	L10120049-02	1	1		12/08/10 20:50
44	15G24319.R	L10120049-02	1	1		12/08/10 21:18
45	15G24320.F	L10120049-03	1	1		12/08/10 21:18
46	15G24320.R	L10120049-03	1	1		12/08/10 21:47
47	15G24321.F	L10120124-01	1	1		12/08/10 21:47
48	15G24321.R	L10120124-01	1	1		12/08/10 22:15
49	15G24322.F	L10120124-05	1	1		12/08/10 22:15
50	15G24322.R	L10120124-05	1	1		12/08/10 22:43
51	15G24323.F	L10120124-06	1	1		12/08/10 22:43
52	15G24323.R	L10120124-06	1	1		12/08/10 23:12
53	15G24324.F	L10120087-16	2	1		12/08/10 23:12
54	15G24324.R	L10120087-16	2	1		12/08/10 23:40
55	15G24325.F	L10120087-16 10x	2	10		12/08/10 23:40
56	15G24325.R	L10120087-16 10x	2	10		12/09/10 00:08
57	15G24326.F	WG350839-04 ENDRIN/DDT	1	1	STD39983	12/09/10 00:08
58	15G24326.R	WG350839-04 ENDRIN/DDT	1	1	STD39983	12/09/10 00:36
59	15G24327.F	WG350839-05 PEST CCV 20 PPB	1	1	STD40207	12/09/10 00:36
60	15G24327.R	WG350839-05 PEST CCV 20 PPB	1	1	STD40207	12/09/10 01:05
61	15G24328.F	WG350840-03 TOX CCV 500 PPB	1	1	STD40827	12/09/10 01:05
62	15G24328.R	WG350840-03 TOX CCV 500 PPB	1	1	STD40827	12/09/10 01:33
63	15G24329.F	WG350842-03 CHLOR CCV 500 PPB	1	1	STD40827	12/09/10 01:33
64	15G24329.R	WG350842-03 CHLOR CCV 500 PPB	1	1	STD40827	12/09/10 02:01
65	15G24330.F	L10120087-18	2	1		12/09/10 02:01
66	15G24330.R	L10120087-18	2	1		12/09/10 02:29
67	15G24331.F	WG350553-01 BLANK	7	1	SOIL	12/09/10 02:29
68	15G24331.R	WG350553-01 BLANK	7	1	SOIL	12/09/10 02:57
69	15G24332.F	WG350553-02 LCS	7	1	SOIL	12/09/10 02:57
70	15G24332.R	WG350553-02 LCS	7	1	SOIL	12/09/10 03:26
71	15G24333.F	WG350553-03 LCS DUP	7	1	SOIL	12/09/10 03:26

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP15 Dataset: 120810
Analyst1: ECL Analyst2: NA
Method: 8081 SOP: GCS09 Rev: 12

Maintenance Log ID: Syringe Filter Lot#:

Column 1 ID: RTX-CLP Column 2 ID: RTX-CLP2
Workgroups:

CCV Std: STD40207 LCS STD: STD42746
Internal STD: NA Surrogate STD: STD42482

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
72	15G24333.R	WG350553-03 LCS DUP	7	1	SOIL	12/09/10 03:54
73	15G24334.F	WG350553-04 TOX LCS	7	1	SOIL	12/09/10 03:54
74	15G24334.R	WG350553-04 TOX LCS	7	1	SOIL	12/09/10 04:22
75	15G24335.F	L10120074-01	7	1	SOIL	12/09/10 04:22
76	15G24335.R	L10120074-01	7	1	SOIL	12/09/10 04:50
77	15G24336.F	L10120074-02	7	1	SOIL	12/09/10 04:50
78	15G24336.R	L10120074-02	7	1	SOIL	12/09/10 05:19
79	15G24337.F	L10120074-03	7	1	SOIL	12/09/10 05:19
80	15G24337.R	L10120074-03	7	1	SOIL	12/09/10 05:47
81	15G24338.F	L10120074-04	7	1	SOIL	12/09/10 05:47
82	15G24338.R	L10120074-04	7	1	SOIL	12/09/10 06:15
83	15G24339.F	L10120074-05	7	1	SOIL	12/09/10 06:15
84	15G24339.R	L10120074-05	7	1	SOIL	12/09/10 06:43
85	15G24340.F	WG350839-06 PEST CCV 10 PPB	1	1	STD40207	12/09/10 06:43
86	15G24340.R	WG350839-06 PEST CCV 10 PPB	1	1	STD40207	12/09/10 07:12
87	15G24341.F	WG350840-04 TOX CCV 200 PPB	1	1	STD40827	12/09/10 07:12
88	15G24341.R	WG350840-04 TOX CCV 200 PPB	1	1	STD40827	12/09/10 07:40
89	15G24342.F	WG350842-04 CHLOR CCV 500 PPB	1	1	STD40827	12/09/10 07:40
90	15G24342.R	WG350842-04 CHLOR CCV 500 PPB	1	1	STD40827	12/09/10 08:08
91	15G24343.F	L10120074-06	7	1	SOIL	12/09/10 08:08
92	15G24343.R	L10120074-06	7	1	SOIL	12/09/10 08:36
93	15G24344.F	L10120074-07	7	1	SOIL	12/09/10 08:36
94	15G24344.R	L10120074-07	7	1	SOIL	12/09/10 09:05
95	15G24345.F	L10120074-08	7	1	SOIL	12/09/10 09:05
96	15G24345.R	L10120074-08	7	1	SOIL	12/09/10 09:33
97	15G24346.F	L10120074-09	7	1	SOIL	12/09/10 09:33
98	15G24346.R	L10120074-09	7	1	SOIL	12/09/10 10:01
99	15G24347.F	L10120074-10	7	1	SOIL	12/09/10 10:01
100	15G24347.R	L10120074-10	7	1	SOIL	12/09/10 10:30
101	15G24348.F	L10120074-11	7	1	SOIL	12/09/10 10:30
102	15G24348.R	L10120074-11	7	1	SOIL	12/09/10 10:58
103	15G24349.F	L10120103-01	7	1	SOIL	12/09/10 10:58
104	15G24349.R	L10120103-01	7	1	SOIL	12/09/10 11:27
105	15G24350.F	L10120103-02	7	1	SOIL	12/09/10 11:27
106	15G24350.R	L10120103-02	7	1	SOIL	12/09/10 11:55
107	15G24351.F	L10120103-03	7	1	SOIL	12/09/10 11:55
108	15G24351.R	L10120103-03	7	1	SOIL	12/09/10 12:23

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP15 Dataset: 120810
Analyst1: ECL Analyst2: NA
Method: 8081 SOP: GCS09 Rev: 12

Maintenance Log ID: Syringe Filter Lot#:

Column 1 ID: RTX-CLP Column 2 ID: RTX-CLP2
Workgroups:

CCV Std: STD40207 LCS STD: STD42746
Internal STD: NA Surrogate STD: STD42482

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
109	15G24352.F	L10120103-04	7	1	SOIL	12/09/10 12:23
110	15G24352.R	L10120103-04	7	1	SOIL	12/09/10 12:52
111	15G24353.F	HEXANE	1	1		12/09/10 12:52
112	15G24353.R	HEXANE	1	1		12/09/10 13:20
113	15G24354.F	WG350839-07 ENDRIN/DDT	1	1	STD39983	12/09/10 13:20
114	15G24354.R	WG350839-07 ENDRIN/DDT	1	1	STD39983	12/09/10 13:48
115	15G24355.F	WG350839-08 PEST CCV 20 PPB	1	1	STD40207	12/09/10 13:48
116	15G24355.R	WG350839-08 PEST CCV 20 PPB	1	1	STD40207	12/09/10 14:17
117	15G24356.F	WG350840-05 TOX CCV 500 PPB	1	1	STD40827	12/09/10 14:17
118	15G24356.R	WG350840-05 TOX CCV 500 PPB	1	1	STD40827	12/09/10 14:45

Comments

Seq.	Rerun	Dil.	Reason	Analytes
4				
	WG350839-02 PEST CCV 20 PPB: Endosulfan sulfate failed high on the rear (confirmation) column.			
32				
	WG350839-03 PEST CCV 10 PPB: Endosulfan sulfate failed high on the rear (confirmation) column.			
65	X	5	Over Calibration Range	Toxaphene
	L10120087-18			
67				
	WG350553-01 BLANK: T-M-X surrogate failed low.			
69				
	WG350553-02 LCS: T-M-X surrogate failed low.			
71				
	WG350553-03 LCS DUP: T-M-X surrogate failed low.			
77				
	L10120074-02: T-M-X surrogate failed marginally low.			
79				
	L10120074-03: T-M-X surrogate failed marginally low.			
81				
	L10120074-04: Both surrogates failed low. NEEDS RE-EXTRACTED.			
91				
	L10120074-06: Both surrogates failed low. NEEDS RE-EXTRACTED.			
93				
	L10120074-07: T-M-X surrogate failed marginally low.			
95				
	L10120074-08: Both surrogates failed low. NEEDS RE-EXTRACTED.			

Page: 4 Approved: 10-DEC-10

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP15 Dataset: 120810
Analyst1: ECL Analyst2: NA
Method: 8081 SOP: GCS09 Rev: 12

Maintenance Log ID: Syringe Filter Lot#:

Column 1 ID: RTX-CLP Column 2 ID: RTX-CLP2
Workgroups:

CCV Std: STD40207 LCS STD: STD42746
Internal STD: NA Surrogate STD: STD42482

Comments

Seq.	Rerun	Dil.	Reason	Analytes
103				
	L10120103-01: T-M-X surrogate failed low.			
107				
	L10120103-01: T-M-X surrogate failed high due to SMI.			
109				
	L10120103-04: T-M-X surrogate failed marginally low.			

Page: 5 Approved: 10-DEC-10

Microbac Laboratories Inc.

Data Checklist

Date: 27-SEP-2010
Analyst: ECL
Analyst: NA
Method: 8081
Instrument: HP15
Curve Workgroup: NA
Runlog ID: 36634
Analytical Workgroups: L10090495

ANALYTICAL	
System Performance Check	NA
DFTPP (MS)	NA
Endrin/DDT breakdown (8081/MS)	X
Pentachlorophenol/benzidine tailing (MS)	NA
Eluent check (IC)/system pressure (HPLC)	NA
Window standard (FID)	NA
Initial Calibration	X
Average RF	X
Linear regression or higher order curve	NA
Alternate source standard (ICV) % Difference	X
Continuing Calibration (CCV)	X
% D/% Drift	X
Minimum response factors (MS)	NA
Continuing calibration blank (CCB) (IC)	NA
Special standards	X
Blanks	X
TCL hits	X
Surrogate recoveries	X
LCS/LCSD (Laboratory Control Sample)	X
Recoveries	X
Surrogate recoveries	X
MS/MSD/Sample duplicates	NA
Recoveries	NA
%RPD	NA
Samples	X
TCL hits	X
Mass spectra (MS/HPLC)/2nd column confirmations (ECD/FID/HPLC)	X
Surrogate recoveries	X
Internal standard areas (MS)	NA
Library searches (MS)	NA
Calculations & correct factors	X
Compounds above calibration range	NA
Reruns	NA
Manual integrations	X
Project/client specific requirements	X
REPORTING	
Upload batch form	X
KOBRA workgroup data/forms/bench sheets	X
Case narratives	NA
Check for completeness	X
Primary Reviewer	ECL
SUPERVISORY/SECONDARY REVIEW	
Check for compliance with method and project specific requirements	X
Check the completeness/accuracy of reported information	X
Data qualifiers	X
Secondary Reviewer	HAV

Primary Reviewer:
28-SEP-2010

Secondary Reviewer:
01-OCT-2010

CHECKLIST1 - Modified 03/05/2008
Generated: OCT-01-2010 13:59:58

Microbac Laboratories Inc.

Data Checklist

Date: 08-DEC-2010
Analyst: ECL
Analyst: NA
Method: 8081
Instrument: HP15
Curve Workgroup: NA
Runlog ID: 37981
Analytical Workgroups: L10120048, L10120087, L10120049, L1012124, 12-074, 12-103

ANALYTICAL	
System Performance Check	NA
DFTPP (MS)	NA
Endrin/DDT breakdown (8081/MS)	X
Pentachlorophenol/benzidine tailing (MS)	NA
Eluent check (IC)/system pressure (HPLC)	NA
Window standard (FID)	NA
Initial Calibration	NA
Average RF	NA
Linear regression or higher order curve	NA
Alternate source standard (ICV) % Difference	NA
Continuing Calibration (CCV)	X
% D/% Drift	X
Minimum response factors (MS)	NA
Continuing calibration blank (CCB) (IC)	NA
Special standards	X
Blanks	X
TCL hits	X
Surrogate recoveries	X
LCS/LCSD (Laboratory Control Sample)	X
Recoveries	X
Surrogate recoveries	X
MS/MSD/Sample duplicates	NA
Recoveries	NA
%RPD	NA
Samples	X
TCL hits	X
Mass spectra (MS/HPLC)/2nd column confirmations (ECD/FID/HPLC)	X
Surrogate recoveries	X
Internal standard areas (MS)	NA
Library searches (MS)	NA
Calculations & correct factors	X
Compounds above calibration range	X
Reruns	X
Manual integrations	X
Project/client specific requirements	X
REPORTING	
Upload batch form	X
KOBRA workgroup data/forms/bench sheets	X
Case narratives	X
Check for completeness	X
Primary Reviewer	ECL
SUPERVISORY/SECONDARY REVIEW	
Check for compliance with method and project specific requirements	X
Check the completeness/accuracy of reported information	X
Data qualifiers	X
Secondary Reviewer	MDC

Primary Reviewer:
09-DEC-2010

Secondary Reviewer:
10-DEC-2010

CHECKLIST1 - Modified 03/05/2008
Generated: DEC-10-2010 10:56:00

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8081A AAB#: WG350781

Login Number: L10120103

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
DLASS-002-0001-SO	01	11/10/10					12/06/10	26.1	14	*	12/09/10	2.9	40	
DLASS-022-0001-SO	02	11/09/10					12/06/10	27.1	14	*	12/09/10	2.9	40	
DLASS-022-0003-SO	03	11/09/10					12/06/10	27	14	*	12/09/10	2.9	40	
DLASS-002-0003-SO	04	11/10/10					12/06/10	26.1	14	*	12/09/10	2.9	40	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 1862409
Report generated 12/13/2010 11:11

Microbac Laboratories Inc.
SURROGATE STANDARDS

Login Number: L10120103
Instrument Id: HP15
Workgroup (AAB#): WG350781

Method: 8081
CAL ID: HP15-27-SEP-10
Matrix: Soil

Sample Number	Dilution	Tag	1	2
L10120103-01	1.00	01	58.0	75.3
L10120103-02	1.00	01	74.2	69.0
L10120103-03	1.00	01	137	81.2
L10120103-04	1.00	01	68.0	77.2
WG350553-01	1.00	01	66.3	79.2
WG350553-02	1.00	01	68.9	86.1
WG350553-03	1.00	01	66.1	82.0
WG350553-04	1.00	02	73.1	87.3

Surrogates	Surrogate Limits		
1 - 2,4,5,6-Tetrachloro-m-xylene	70	-	125
2 - Decachlorobiphenyl	55	-	130

Underline = Result out of surrogate limits

DL = surrogate diluted out

ND = surrogate not detected

SURROGATES - Modified 03/06/2008
PDF File ID: 1862419
Report generated: 12/13/2010 11:12

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L10120103 | Work Group: WG350781
Blank File ID: 15G24331.F | Blank Sample ID: WG350553-01
Prep Date: 12/06/10 13:40 | Instrument ID: HP15
Analyzed Date: 12/09/10 02:29 | Method: 8081A
Analyst: ECL

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG350553-02	15G24332.F	12/09/10 02:57	01
LCS2	WG350553-03	15G24333.F	12/09/10 03:26	01
LCS_TOX	WG350553-04	15G24334.F	12/09/10 03:54	02
DLASS-002-0001-SO	L10120103-01	15G24349.F	12/09/10 10:58	01
DLASS-022-0001-SO	L10120103-02	15G24350.F	12/09/10 11:27	01
DLASS-022-0003-SO	L10120103-03	15G24351.F	12/09/10 11:55	01
DLASS-002-0003-SO	L10120103-04	15G24352.F	12/09/10 12:23	01

Report Name: BLANK_SUMMARY
PDF File ID: 1862410
Report generated 12/13/2010 11:11

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number:L10120103 Prep Date:12/06/10 13:40 Sample ID:WG350553-01
Instrument ID:HP15 Run Date:12/09/10 02:29 Prep Method:3550B
File ID:15G24331.F Analyst:ECL Method:8081A
Workgroup (AAB#):WG350781 Matrix:Soil Units:ug/kg
Contract #: Cal ID: HP15-27-SEP-10

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
4,4'-DDD	0.330	1.65	0.330	1	U
4,4'-DDE	0.330	1.65	0.330	1	U
4,4'-DDT	0.330	1.65	0.330	1	U
Aldrin	0.330	1.65	0.330	1	U
alpha Chlordane	0.330	1.65	0.330	1	U
alpha-BHC	0.330	1.65	0.330	1	U
beta-BHC	0.330	1.65	0.330	1	U
delta-BHC	0.330	1.65	0.330	1	U
Dieldrin	0.330	1.65	0.330	1	U
Endosulfan I	0.330	1.65	0.330	1	U
Endosulfan II	0.330	1.65	0.330	1	U
Endosulfan sulfate	0.330	1.65	0.330	1	U
Endrin	0.330	1.65	0.330	1	U
Endrin aldehyde	0.330	1.65	0.330	1	U
Endrin ketone	0.330	1.65	0.330	1	U
gamma Chlordane	0.330	1.65	0.330	1	U
gamma-BHC (Lindane)	0.330	1.65	0.330	1	U
Heptachlor	0.330	1.65	0.330	1	U
Heptachlor epoxide	0.330	1.65	0.330	1	U
Methoxychlor	0.330	1.65	0.330	1	U
Toxaphene	16.7	33.0	16.7	1	U

Surrogates	% Recovery	Surrogate Limits			Qualifier
2,4,5,6-Tetrachloro-m-xylene	66.3	70	-	125	FAIL
Decachlorobiphenyl	79.2	55	-	130	PASS

LOD Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 1862411
13-DEC-2010 11:11

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L10120103 Run Date: 12/09/2010 Sample ID: WG350553-04
Instrument ID: HP15 Run Time: 03:54 Prep Method: 3550B
File ID: 15G24334.F Analyst: ECL Method: 8081A
Workgroup (AAB#): WG350781 Matrix: Soil Units: ug/kg
QC Key: DOD4 Lot#: STD42746 Cal ID: HP15-27-SEP-10

Analytes	Expected	Found	% Rec	LCS Limits	Q
Toxaphene	66.7	54.9	82.3	25 - 138	

Surrogates	% Recovery	Surrogate Limits	Qualifier
2,4,5,6-Tetrachloro-m-xylene	73.1	70 - 125	PASS
Decachlorobiphenyl	87.3	55 - 130	PASS

* EXCEEDS %REC LIMIT

LCS - Modified 03/06/2008
PDF File ID: 1862412
Report generated: 12/13/2010 11:11

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number:L10120103 Analyst:ECL Prep Method:3550B
Instrument ID:HP15 Matrix:Soil Method:8081A
Workgroup (AAB#):WG350781 Units:ug/kg
QC Key:DOD4 Lot #:STD42746

Sample ID:WG350553-02 LCS File ID:15G24332.F Run Date:12/09/2010 02:57
Sample ID:WG350553-03 LCS2 File ID:15G24333.F Run Date:12/09/2010 03:26

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
4,4'-DDD	16.7	15.9	95.3	16.7	15.1	90.7	4.99	30 - 135	30	
4,4'-DDE	16.7	16.6	99.5	16.7	15.7	94.3	5.32	70 - 125	30	
4,4'-DDT	16.7	15.3	91.8	16.7	14.7	87.9	4.34	45 - 140	30	
Aldrin	16.7	13.1	78.7	16.7	12.6	75.4	4.29	45 - 140	30	
alpha Chlordane	16.7	15.6	93.8	16.7	14.8	88.6	5.72	65 - 120	30	
alpha-BHC	16.7	15.3	92.0	16.7	14.5	86.8	5.86	60 - 125	30	
beta-BHC	16.7	15.4	92.5	16.7	14.6	87.7	5.31	60 - 125	30	
delta-BHC	16.7	16.5	98.8	16.7	15.8	94.6	4.34	55 - 130	30	
Dieldrin	16.7	16.7	99.9	16.7	15.8	95.0	5.09	65 - 125	30	
Endosulfan I	16.7	15.7	94.4	16.7	15.0	89.7	5.06	15 - 135	30	
Endosulfan II	16.7	13.6	81.8	16.7	13.1	78.9	3.64	35 - 140	30	
Endosulfan sulfate	16.7	13.8	82.6	16.7	13.2	79.4	3.85	60 - 135	30	
Endrin	16.7	15.9	95.6	16.7	15.1	90.8	5.15	60 - 135	30	
Endrin aldehyde	16.7	11.3	67.8	16.7	11.0	65.9	2.87	35 - 145	30	
Endrin ketone	16.7	15.0	90.1	16.7	14.3	85.7	5.03	65 - 135	30	
gamma Chlordane	16.7	15.2	91.0	16.7	14.4	86.4	5.17	65 - 125	30	
gamma-BHC (Lindane)	16.7	17.3	104	16.7	16.0	96.2	7.56	60 - 125	30	
Heptachlor	16.7	14.7	87.9	16.7	13.9	83.6	4.97	50 - 140	30	
Heptachlor epoxide	16.7	13.5	81.0	16.7	12.9	77.2	4.75	65 - 130	30	
Methoxychlor	16.7	14.6	87.3	16.7	13.9	83.7	4.26	55 - 145	30	

Surogates	LCS	LCS2	Surrogate Limits	Qualifier
	% Recovery	% Recovery		
Decachlorobiphenyl	86.1	82.0	55 - 130	PASS
2,4,5,6-Tetrachloro-m-xylene	68.9	66.1	70 - 125	FAIL

* EXCEEDS %REC LIMIT

EXCEEDS RPD LIMIT

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 1862413
Report generated: 12/13/2010 11:11

Microbac Laboratories Inc.

INITIAL CALIBRATION SUMMARY

Login Number: L10120103 Instrument ID: HP15

Analytical Method: 8081A Initial Calibration Date: 27-SEP-10 18:55

ICAL Workgroup: WG343903 Column ID: F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD (R^2)
Toxaphene-1		2272000	3.77		
Toxaphene-2		1753000	1.92		
Toxaphene-3		2936000	2.57		
Toxaphene-4		1328000	2.31		
Toxaphene-5		1360000	2.84		

R = Correlation coefficient; 0.995 minimum

R^2 = Coefficient of determination; 0.99 minimum

INT_CAL - Modified 03/06/2008

PDF File ID: 1862415

Report generated 12/13/2010 11:21

Microbac Laboratories Inc.

INITIAL CALIBRATION SUMMARY

Login Number: L10120103 **Instrument ID:** HP15

Analytical Method: 8081A **Initial Calibration Date:** 27-SEP-10 22:14

ICAL Workgroup: WG343902 **Column ID:** F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD (R^2)
4,4'-DDD		103800000	4.77		
4,4'-DDE		127700000	4.44		
4,4'-DDT		118200000	6.26		
Aldrin		155300000	4.90		
Dieldrin		124100000	5.61		
Endosulfan I		124400000	6.68		
Endosulfan II		118800000	11.7		
Endosulfan Sulfate		95610000	10.7		
Endrin		121400000	4.18		
Endrin Aldehyde		91150000	8.47		
Endrin Ketone		109000000	8.58		
Heptachlor		151500000	5.22		
Heptachlor Epoxide		142000000	8.05		
Methoxychlor		56440000	8.48		
alpha-BHC		166900000	9.41		
alpha-Chlordane		135900000	1.96		
beta-BHC		69840000	2.41		
delta-BHC		153000000	9.53		
gamma-BHC		155900000	6.96		
gamma-Chlordane		148200000	4.75		

R = Correlation coefficient; 0.995 minimum
R^2 = Coefficient of determination; 0.99 minimum

INT_CAL - Modified 03/06/2008
PDF File ID: 1862415
Report generated 12/13/2010 11:21

Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L10120103 **Instrument ID:** HP15

Analytical Method: 8081A **Initial Calibration Date:** 27-SEP-10 18:55

Column ID: F

Analyte	WG343903-01			WG343903-02			WG343903-03		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Toxaphene-1	2000	4675346690	2338000	1000	2330912800	2331000	500	1166330990	2333000
Toxaphene-2	2000	3427336800	1714000	1000	1786543570	1787000	500	885821455	1772000
Toxaphene-3	2000	5834618260	2917000	1000	2863787080	2864000	500	1509570590	3019000
Toxaphene-4	2000	2687591140	1344000	1000	1346648580	1347000	500	678166462	1356000
Toxaphene-5	2000	2769070200	1385000	1000	1377604310	1378000	500	697291872	1395000

INT_CAL - Modified 03/06/2008
PDF File ID: 1862415
Report generated 12/13/2010 11:21

Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number:L10120103 Instrument ID:HP15

Analytical Method:8081A Initial Calibration Date:27-SEP-10 18:55

Column ID:F

Analyte	WG343903-04			WG343903-05		
	CONC	RESP	RF	CONC	RESP	RF
Toxaphene-1	200	432012831	2160000	100	219908941	2199000
Toxaphene-2	200	354420823	1772000	100	171891762	1719000
Toxaphene-3	200	573393547	2867000	100	301060427	3011000
Toxaphene-4	200	256414870	1282000	100	131155092	1312000
Toxaphene-5	200	260237757	1301000	100	134006051	1340000

INT_CAL - Modified 03/06/2008
PDF File ID: 1862415
Report generated 12/13/2010 11:21

Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L10120103 **Instrument ID:** HP15

Analytical Method: 8081A **Initial Calibration Date:** 27-SEP-10 22:14

Column ID: F

Analyte	WG343902-01			WG343902-02			WG343902-03		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
4,4'-DDD	200	21194229300	106000000	100	10716113000	107200000	20.0	2169099070	108500000
4,4'-DDE	200	25881063700	129400000	100	13215371500	132200000	20.0	2666877990	133300000
4,4'-DDT	200	22560811300	112800000	100	11516923900	115200000	20.0	2349242570	117500000
Aldrin	200	29991451600	150000000	100	15543074500	155400000	20.0	3238363240	161900000
Dieldrin	200	22624057700	113100000	100	12613312900	126100000	20.0	2693818770	134700000
Endosulfan I	200	22145993000	110700000	100	11749255600	117500000	20.0	2578305980	128900000
Endosulfan II	200	20609691500	103000000	100	10742082000	107400000	20.0	2345930200	117300000
Endosulfan Sulfate	200	17294032500	86470000	100	8739187090	87390000	20.0	1846351990	92320000
Endrin	200	22638957100	113200000	100	11852387700	118500000	20.0	2536248670	126800000
Endrin Aldehyde	200	15978969900	79890000	100	8333464510	83330000	20.0	1852631110	92630000
Endrin Ketone	200	19622203400	98110000	100	10067206300	100700000	20.0	2165265130	108300000
Heptachlor	200	27604826100	138000000	100	14584543200	145800000	20.0	3140753570	157000000
Heptachlor Epoxide	200	24925364700	124600000	100	13184460000	131800000	20.0	2905867280	145300000
Methoxychlor	200	9867586560	49340000	100	5145335120	51450000	20.0	1167801210	58390000
alpha-BHC	200	36594436600	183000000	100	18039039200	180400000	20.0	3486980620	174300000
alpha-Chlordane	200	26284355200	131400000	100	13449739800	134500000	20.0	2780388460	139000000
beta-BHC	200	13625441400	68130000	100	6743339770	67430000	20.0	1403329440	70170000
delta-BHC	200	33542082300	167700000	100	16650915300	166500000	20.0	3187199340	159400000
gamma-BHC	200	33131432200	165700000	100	16381372800	163800000	20.0	3232286080	161600000
gamma-Chlordane	200	28416177900	142100000	100	14316361300	143200000	20.0	2937271750	146900000

INT_CAL - Modified 03/06/2008
PDF File ID: 1862415
Report generated 12/13/2010 11:21

Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L10120103 **Instrument ID:** HP15

Analytical Method: 8081A **Initial Calibration Date:** 27-SEP-10 22:14

Column ID: F

Analyte	WG343902-04			WG343902-05			WG343902-06		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
4,4'-DDD	10.0	1059153690	105900000	4.00	399146773	99790000	1.00	95781392.0	95780000
4,4'-DDE	10.0	1298308620	129800000	4.00	489666784	122400000	1.00	119119984	119100000
4,4'-DDT	10.0	1188340490	118800000	4.00	450838675	112700000	1.00	132489120	132500000
Aldrin	10.0	1663617080	166400000	4.00	606877502	151700000	1.00	146271662	146300000
Dieldrin	10.0	1217436240	121700000	4.00	498771270	124700000	1.00	124513513	124500000
Endosulfan I	10.0	1296010290	129600000	4.00	511937568	128000000	1.00	131452673	131500000
Endosulfan II	10.0	1210266810	121000000	4.00	485204663	121300000	1.00	142729135	142700000
Endosulfan Sulfate	10.0	951769872	95180000	4.00	391882720	97970000	1.00	114341632	114300000
Endrin	10.0	1262301300	126200000	4.00	487898552	122000000	1.00	121540813	121500000
Endrin Aldehyde	10.0	954105342	95410000	4.00	393678703	98420000	1.00	97215007.0	97220000
Endrin Ketone	10.0	1096922190	109700000	4.00	450781763	112700000	1.00	124321632	124300000
Heptachlor	10.0	1575742910	157600000	4.00	617635845	154400000	1.00	156292702	156300000
Heptachlor Epoxide	10.0	1480739550	148100000	4.00	585733045	146400000	1.00	155432282	155400000
Methoxychlor	10.0	590681161	59070000	4.00	239335070	59830000	1.00	60580494.0	60580000
alpha-BHC	10.0	1672185180	167200000	4.00	611426510	152900000	1.00	143650637	143700000
alpha-Chlordane	10.0	1364655710	136500000	4.00	544785800	136200000	1.00	137752674	137800000
beta-BHC	10.0	710572860	71060000	4.00	282463743	70620000	1.00	71641717.0	71640000
delta-BHC	10.0	1526652160	152700000	4.00	562232779	140600000	1.00	131354429	131400000
gamma-BHC	10.0	1594698720	159500000	4.00	583031928	145800000	1.00	139089696	139100000
gamma-Chlordane	10.0	1478303600	147800000	4.00	590879543	147700000	1.00	161741975	161700000

INT_CAL - Modified 03/06/2008
PDF File ID: 1862415
Report generated 12/13/2010 11:21

Microbac Laboratories Inc.

ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L10120103 Run Date: 09/27/2010 Sample ID: WG343903-06

Instrument ID: HP15 Run Time: 18:55 Method: 8081A

File ID: 15G23701.F Analyst: ECL QC Key: DOD4

ICal Workgroup: WG343903 Cal ID: HP15 - 27-SEP-10

Analyte		Expected	Found	Units	RF	%D	UCL	Q
Toxaphene		500	450	ug/L	1720000	10.0	20	

* Exceeds %D Limit

ALT - Modified 09/06/2007
Version 1.5 PDF File ID: 1862416
Report generated 12/13/2010 11:12

Microbac Laboratories Inc.

ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L10120103 Run Date: 09/27/2010 Sample ID: WG343902-07

Instrument ID: HP15 Run Time: 22:14 Method: 8081A

File ID: 15G23708.F Analyst: ECL QC Key: DOD4

ICal Workgroup: WG343902 Cal ID: HP15 - 27-SEP-10

Analyte		Expected	Found	Units	RF	%D	UCL	Q
4,4'-DDD		20.0	19.8	ug/L	103000000	0.900	20	
4,4'-DDE		20.0	20.4	ug/L	130000000	1.90	20	
4,4'-DDT		20.0	19.1	ug/L	113000000	4.60	20	
Aldrin		20.0	19.7	ug/L	153000000	1.60	20	
alpha-Chlordane		20.0	19.6	ug/L	133000000	2.20	20	
alpha-BHC		20.0	19.9	ug/L	166000000	0.700	20	
beta-BHC		20.0	19.5	ug/L	68100000	2.40	20	
delta-BHC		20.0	19.7	ug/L	151000000	1.50	20	
Dieldrin		20.0	19.9	ug/L	124000000	0.300	20	
Endosulfan I		20.0	19.9	ug/L	124000000	0.300	20	
Endosulfan II		20.0	18.7	ug/L	111000000	6.60	20	
Endosulfan Sulfate		20.0	18.9	ug/L	90200000	5.70	20	
Endrin		20.0	19.8	ug/L	120000000	1.00	20	
Endrin Aldehyde		20.0	19.2	ug/L	87600000	3.90	20	
Endrin Ketone		20.0	19.9	ug/L	108000000	0.500	20	
gamma-Chlordane		20.0	19.0	ug/L	141000000	5.10	20	
gamma-BHC		20.0	19.9	ug/L	155000000	0.700	20	
Heptachlor		20.0	19.9	ug/L	151000000	0.600	20	
Heptachlor Epoxide		20.0	19.3	ug/L	137000000	3.70	20	
Methoxychlor		20.0	19.9	ug/L	56200000	0.400	20	

* Exceeds %D Limit

ALT - Modified 09/06/2007
Version 1.5 PDF File ID: 1862416
Report generated 12/13/2010 11:12

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L10120103 Run Date: 12/09/2010 Sample ID: WG350839-05

Instrument ID: HP15 Run Time: 00:36 Method: 8081A

File ID: 15G24327.F Analyst: ECL QC Key: DOD4

Workgroup (AAB#): WG350781 Cal ID: HP15 - 27-SEP-10

Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
4,4'-DDD		20.0	22.5	ug/L	117000000	12.4	20	
4,4'-DDE		20.0	22.2	ug/L	142000000	11.1	20	
4,4'-DDT		20.0	20.0	ug/L	118000000	0.191	20	
Aldrin		20.0	19.3	ug/L	149000000	3.75	20	
alpha-Chlordane		20.0	21.8	ug/L	148000000	8.75	20	
alpha-BHC		20.0	22.3	ug/L	186000000	11.6	20	
beta-BHC		20.0	21.4	ug/L	74900000	7.18	20	
delta-BHC		20.0	22.6	ug/L	173000000	12.8	20	
Dieldrin		20.0	22.5	ug/L	139000000	12.3	20	
Endosulfan I		20.0	21.8	ug/L	136000000	9.25	20	
Endosulfan II		20.0	20.8	ug/L	124000000	4.01	20	
Endosulfan Sulfate		20.0	22.2	ug/L	106000000	10.8	20	
Endrin		20.0	21.8	ug/L	132000000	8.84	20	
Endrin Aldehyde		20.0	21.3	ug/L	97000000	6.38	20	
Endrin Ketone		20.0	22.0	ug/L	120000000	9.80	20	
gamma-Chlordane		20.0	21.5	ug/L	159000000	7.29	20	
gamma-BHC		20.0	22.2	ug/L	173000000	10.9	20	
Heptachlor		20.0	21.0	ug/L	159000000	4.86	20	
Heptachlor Epoxide		20.0	22.0	ug/L	156000000	10.1	20	
Methoxychlor		20.0	19.8	ug/L	55900000	1.01	20	
Toxaphene		NA		ug/L			20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008

PDF File ID: 1862417

Report generated 12/13/2010 11:12

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L10120103 Run Date: 12/09/2010 Sample ID: WG350840-03

Instrument ID: HP15 Run Time: 01:05 Method: 8081A

File ID: 15G24328.F Analyst: ECL QC Key: DOD4

Workgroup (AAB#): WG350781 Cal ID: HP15 - 27-SEP-10

Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Toxaphene		500	538	ug/L	2080000	7.65	20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008

PDF File ID: 1862417

Report generated 12/13/2010 11:12

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L10120103 Run Date: 12/09/2010 Sample ID: WG350839-06

Instrument ID: HP15 Run Time: 06:43 Method: 8081A

File ID: 15G24340.F Analyst: ECL QC Key: DOD4

Workgroup (AAB#): WG350781 Cal ID: HP15 - 27-SEP-10

Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
4,4'-DDD		10.0	11.2	ug/L	116000000	11.6	20	
4,4'-DDE		10.0	11.0	ug/L	140000000	9.80	20	
4,4'-DDT		10.0	10.2	ug/L	121000000	2.02	20	
Aldrin		10.0	9.59	ug/L	149000000	4.14	20	
alpha-Chlordane		10.0	10.9	ug/L	148000000	9.25	20	
alpha-BHC		10.0	10.7	ug/L	179000000	7.48	20	
beta-BHC		10.0	11.1	ug/L	77500000	10.9	20	
delta-BHC		10.0	11.2	ug/L	172000000	12.1	20	
Dieldrin		10.0	11.6	ug/L	143000000	15.6	20	
Endosulfan I		10.0	11.4	ug/L	142000000	13.8	20	
Endosulfan II		10.0	11.0	ug/L	131000000	10.4	20	
Endosulfan Sulfate		10.0	11.2	ug/L	107000000	12.2	20	
Endrin		10.0	10.6	ug/L	129000000	6.39	20	
Endrin Aldehyde		10.0	11.3	ug/L	103000000	12.8	20	
Endrin Ketone		10.0	11.3	ug/L	123000000	12.6	20	
gamma-Chlordane		10.0	10.8	ug/L	160000000	7.78	20	
gamma-BHC		10.0	10.9	ug/L	170000000	9.09	20	
Heptachlor		10.0	10.8	ug/L	164000000	8.48	20	
Heptachlor Epoxide		10.0	11.2	ug/L	159000000	12.0	20	
Methoxychlor		10.0	10.4	ug/L	58600000	3.74	20	
Toxaphene		NA		ug/L			20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008

PDF File ID: 1862417

Report generated 12/13/2010 11:12

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L10120103 Run Date: 12/09/2010 Sample ID: WG350840-04

Instrument ID: HP15 Run Time: 07:12 Method: 8081A

File ID: 15G24341.F Analyst: ECL QC Key: DOD4

Workgroup (AAB#): WG350781 Cal ID: HP15 - 27-SEP-10

Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Toxaphene		200	205	ug/L	1990000	2.72	20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008

PDF File ID: 1862417

Report generated 12/13/2010 11:12

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L10120103 Run Date: 12/09/2010 Sample ID: WG350839-08

Instrument ID: HP15 Run Time: 13:48 Method: 8081A

File ID: 15G24355.F Analyst: ECL QC Key: DOD4

Workgroup (AAB#): WG350781 Cal ID: HP15 - 27-SEP-10

Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
4,4'-DDD		20.0	22.3	ug/L	116000000	11.6	20	
4,4'-DDE		20.0	22.3	ug/L	143000000	11.6	20	
4,4'-DDT		20.0	20.0	ug/L	118000000	0.0640	20	
Aldrin		20.0	19.3	ug/L	150000000	3.54	20	
alpha-Chlordane		20.0	20.7	ug/L	140000000	3.34	20	
alpha-BHC		20.0	22.5	ug/L	187000000	12.3	20	
beta-BHC		20.0	21.8	ug/L	76100000	8.96	20	
delta-BHC		20.0	23.1	ug/L	177000000	15.4	20	
Dieldrin		20.0	22.2	ug/L	138000000	11.1	20	
Endosulfan I		20.0	21.7	ug/L	135000000	8.49	20	
Endosulfan II		20.0	21.0	ug/L	125000000	5.09	20	
Endosulfan Sulfate		20.0	20.8	ug/L	99300000	3.89	20	
Endrin		20.0	20.9	ug/L	127000000	4.50	20	
Endrin Aldehyde		20.0	20.8	ug/L	94900000	4.13	20	
Endrin Ketone		20.0	21.2	ug/L	115000000	5.89	20	
gamma-Chlordane		20.0	21.3	ug/L	158000000	6.40	20	
gamma-BHC		20.0	22.4	ug/L	175000000	12.2	20	
Heptachlor		20.0	21.4	ug/L	162000000	7.03	20	
Heptachlor Epoxide		20.0	21.8	ug/L	155000000	9.23	20	
Methoxychlor		20.0	19.2	ug/L	54100000	4.08	20	
Toxaphene		NA		ug/L			20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008

PDF File ID: 1862417

Report generated 12/13/2010 11:12

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L10120103 Run Date: 12/09/2010 Sample ID: WG350840-05

Instrument ID: HP15 Run Time: 14:17 Method: 8081A

File ID: 15G24356.F Analyst: ECL QC Key: DOD4

Workgroup (AAB#): WG350781 Cal ID: HP15 - 27-SEP-10

Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Toxaphene		500	521	ug/L	2010000	4.10	20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008

PDF File ID: 1862417

Report generated 12/13/2010 11:12

Microbac Laboratories Inc.

ENDRIN/4,4'-DDT BREAKDOWN (BRKDWN)

Login Number: L10120103 Run Date: 12/09/2010 Sample ID: WG350839-04
Instrument ID: HP15 Run Time: 00:08 Method: 8081
File ID: 15G24326.F Analyst: ECL Column ID: FRONT

DDT BREAKDOWN	
Analyte	Response
4,4'-DDD	113556058
4,4'-DDE	97586880
4,4'-DDT	5525932129
DDT % BREAKDOWN:	3.68

ENDRIN BREAKDOWN	
Analyte	Response
ENDRIN	6222808979
ENDRIN ALDEHYDE	115563259
ENDRIN KETONE	167360688
ENDRIN % BREAKDOWN:	4.35

* Exceeds 15% Criteria

Report Name: BRKDWN
PDF File ID: 1862414
Report generated 12/13/2010 11:11

ENDRIN/4,4'-DDT BREAKDOWN (BRKDWN)

Login Number: L10120103 Run Date: 12/09/2010 Sample ID: WG350839-07
Instrument ID: HP15 Run Time: 13:20 Method: 8081
File ID: 15G24354.F Analyst: ECL Column ID: FRONT

DDT BREAKDOWN

Analyte	Response
4,4'-DDD	141250920
4,4'-DDE	118641860
4,4'-DDT	5297569832

DDT % BREAKDOWN: 4.68

ENDRIN BREAKDOWN

Analyte	Response
ENDRIN	6008913462
ENDRIN ALDEHYDE	72334516
ENDRIN KETONE	188395782

ENDRIN % BREAKDOWN: 4.16

* Exceeds 15% Criteria

Report Name: BRKDWN
PDF File ID: 1862414
Report generated 12/13/2010 11:11

2.1.1.3 Sample Data

Data Path : C:\MSDChem\1\DATA\120810\
Data File : 15G24349.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Dec 2010 10:58 (#1); 09 Dec 2010 11:27 (#2)
Operator : ECL
Sample : L10120103-01
Misc : 7,1 SOIL
ALS Vial : 51 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 09 12:29:25 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:46:00 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L	
	System Monitoring Compounds							
1) S	2,4,5,6-Tetrachl	9.26	9.16	1319.0E6	993.1E6	11.598	10.405	
	Spiked Amount 20.000	Range 29 - 133		Recovery =		57.99%	52.02%	
22) S	Decachlorobiphen	18.61	18.89	1206.3E6	1178.3E6	15.054	19.563	#
	Spiked Amount 20.000	Range 30 - 173		Recovery =		75.27%	97.81%	
	Target Compounds							
2)	alpha-BHC	10.58f	0.00	465.2E6	0	2.787	N.D.	#
3)	gamma-BHC	11.21	0.00	627.0E6	0	4.021	N.D.	#
4)	beta-BHC	11.43	0.00	210.8E6	0	3.018	N.D.	#
5)	Heptachlor	12.16	0.00	176.1E6	0	1.162	N.D.	#
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.	
7)	Aldrin	12.73	12.75f	145.1E6	113.8E6	0.934	0.927	
8)	Heptachlor Epoxi	13.88f	0.00	425.5E6	0	2.998	N.D.	#
9)	gamma-Chlordane	14.08	14.13	318.1E6	145.3E6	2.146	1.278	#
10)	alpha-Chlordane	14.32f	14.36f	104.8E6	278.4E6	0.772	2.533	#
11)	Endosulfan I	14.55f	14.50f	289.7E6	190.0E6	2.330	2.040	
12)	4,4'-DDE	14.50f	14.66f	83432516	130.9E6	0.653	1.250	#
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.	
14)	Endrin	15.36	0.00	166.6E6	0	1.372	N.D.	#
15)	4,4'-DDD	15.49	0.00	965.5E6	0	9.298	N.D.	#
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.	
17)	4,4'-DDT	15.94	16.16f	160.1E6	204.7E6	1.354	2.274	#
18)	Endrin Aldehyde	0.00	0.00	0	0	N.D.	N.D.	
19)	Endosulfan Sulfa	17.01	16.77	72785473	129.0E6	0.761	1.790	#
20)	Methoxychlor	16.68	0.00	94805284	0	1.680	N.D.	#
21)	Endrin Ketone	0.00	17.50f	0	123.4E6	N.D.	1.530	#

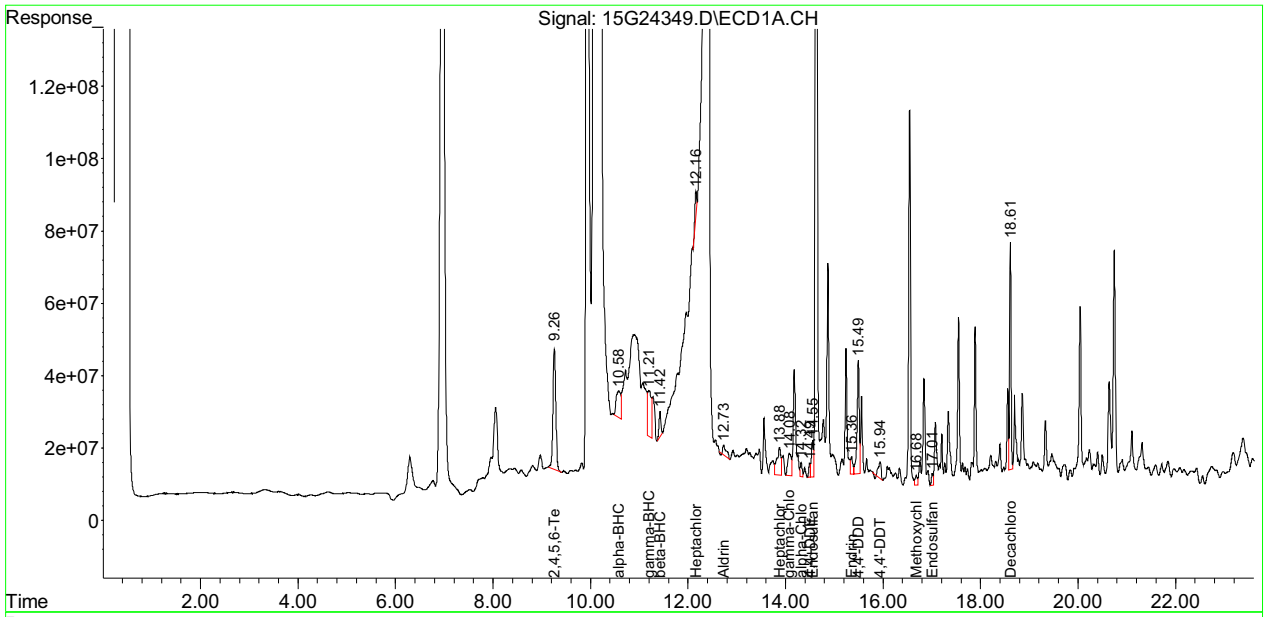
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\120810\
Data File : 15G24349.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Dec 2010 10:58 (#1); 09 Dec 2010 11:27 (#2)
Operator : ECL
Sample : L10120103-01
Misc : 7,1 SOIL
ALS Vial : 51 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 09 12:29:25 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:46:00 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

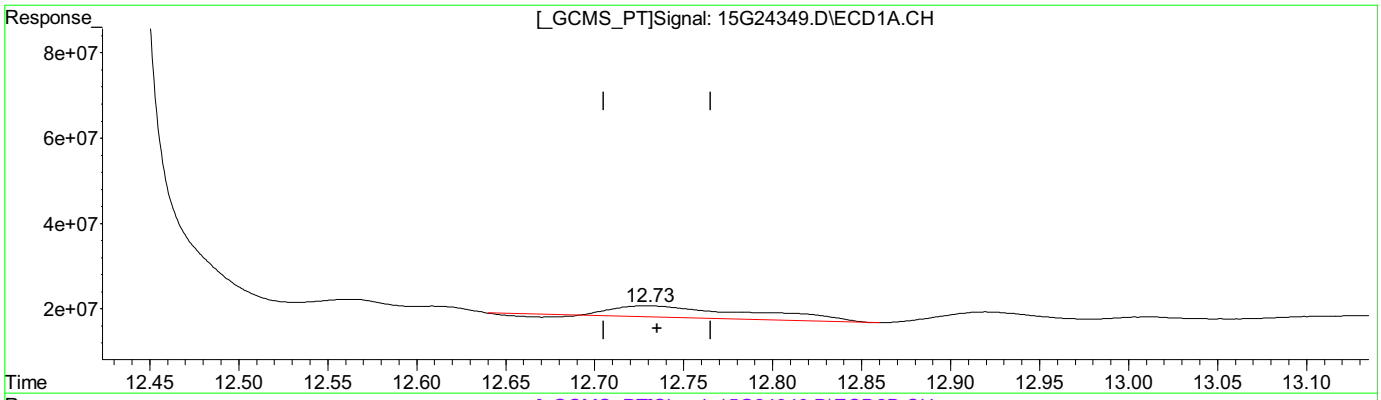


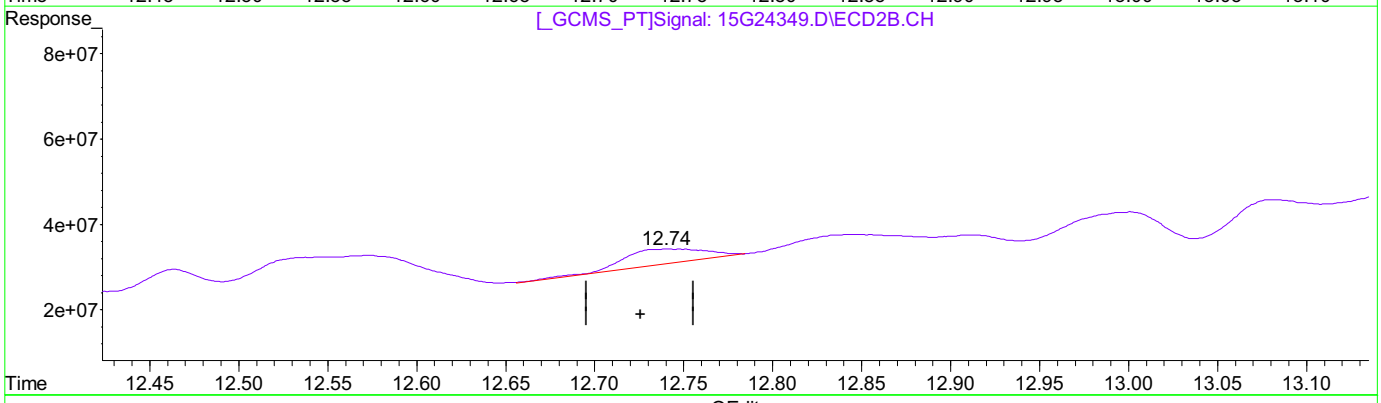
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\120810\
Data File : 15G24349.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Dec 2010 10:58 (#1); 09 Dec 2010 11:27 (#2)
Operator : ECL
Sample : L10120103-01
Misc : 7,1 SOIL
ALS Vial : 51 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 09 12:29:25 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:46:00 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





QEdit

(7) Aldrin

12.73min 0.934UG/L

response 145078270

(7) Aldrin #2

12.75min 0.927UG/L

response 113756720

(+) = Expected Retention Time

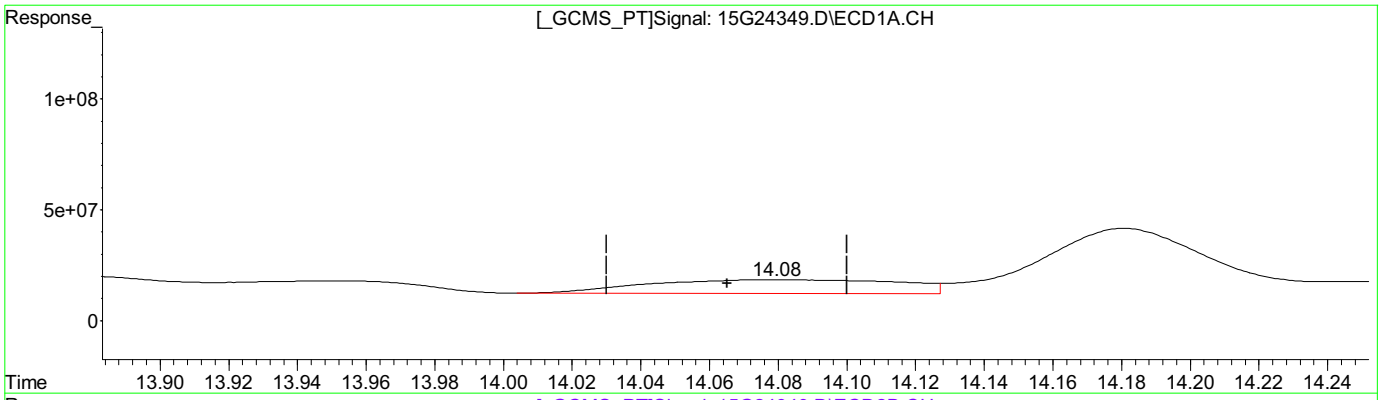
8081.M Thu Dec 09 13:01:18 2010 Page: 1

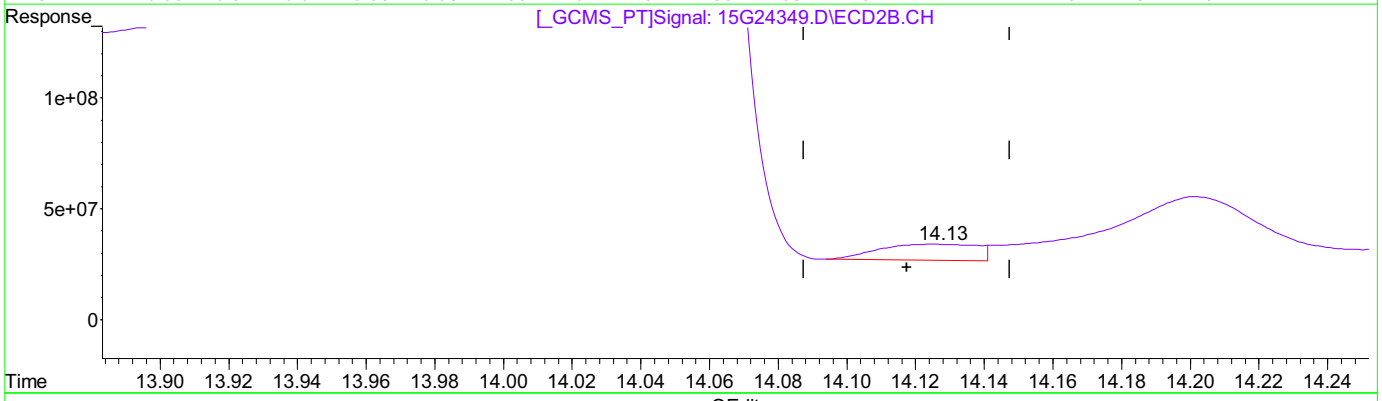
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\120810\
Data File : 15G24349.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Dec 2010 10:58 (#1); 09 Dec 2010 11:27 (#2)
Operator : ECL
Sample : L10120103-01
Misc : 7,1 SOIL
ALS Vial : 51 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 09 12:29:25 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:46:00 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





QEdit

(9) gamma-Chlordane

14.08min 2.146UG/L

response 318061975

(9) gamma-Chlordane #2

14.13min 1.278UG/L

response 145301994

(+) = Expected Retention Time

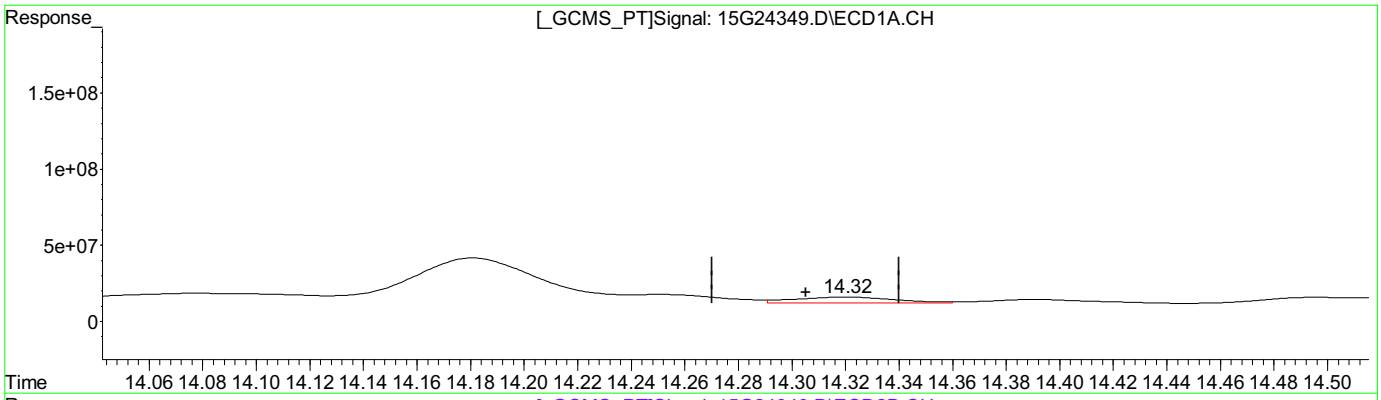
8081.M Thu Dec 09 13:01:29 2010 Page: 1

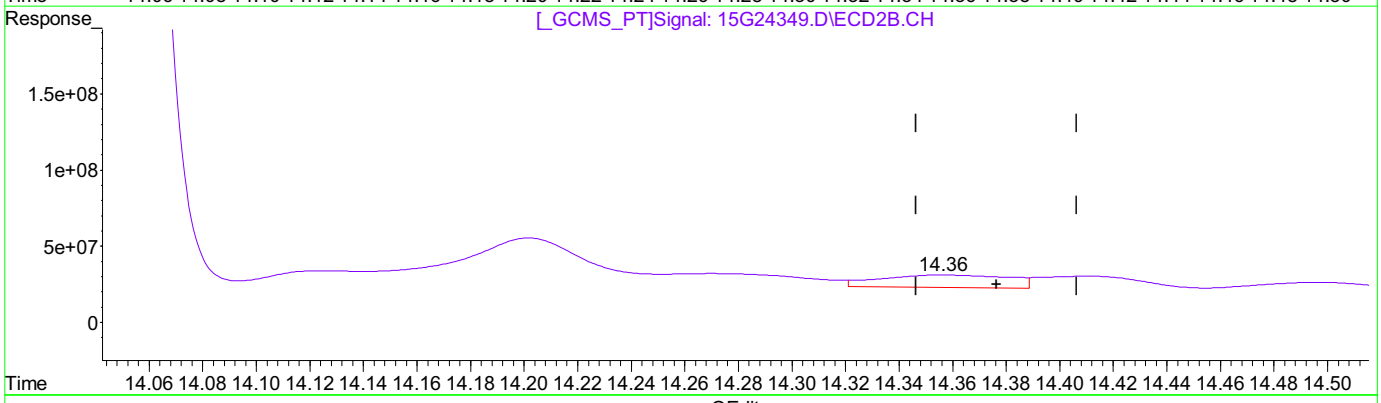
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\120810\
Data File : 15G24349.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Dec 2010 10:58 (#1); 09 Dec 2010 11:27 (#2)
Operator : ECL
Sample : L10120103-01
Misc : 7,1 SOIL
ALS Vial : 51 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 09 12:29:25 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:46:00 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





QEdit

(10) alpha-Chlordane

14.32min 0.772UG/L

response 104846147

(10) alpha-Chlordane #2

14.36min 2.533UG/L

response 278354416

(+) = Expected Retention Time

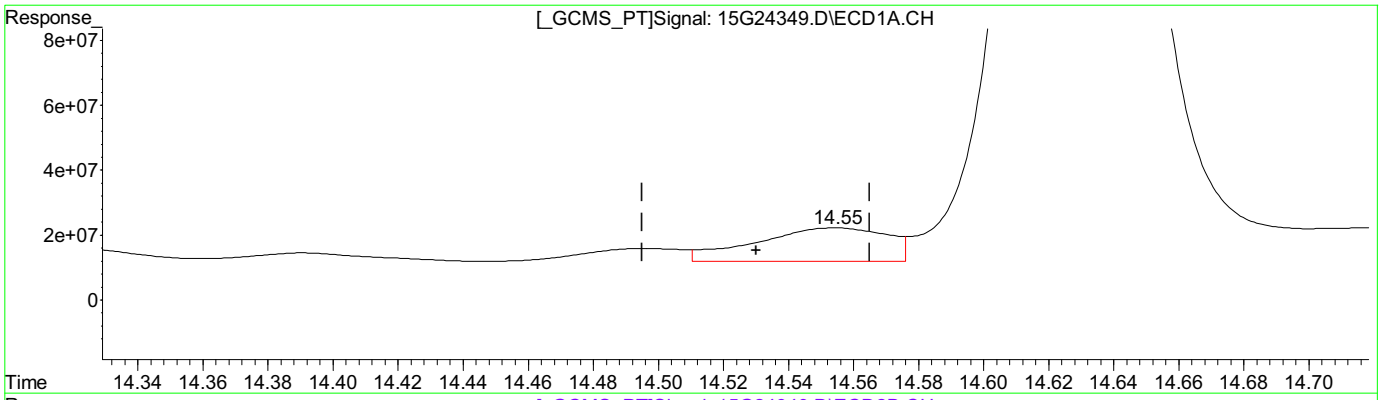
8081.M Thu Dec 09 13:01:37 2010 Page: 1

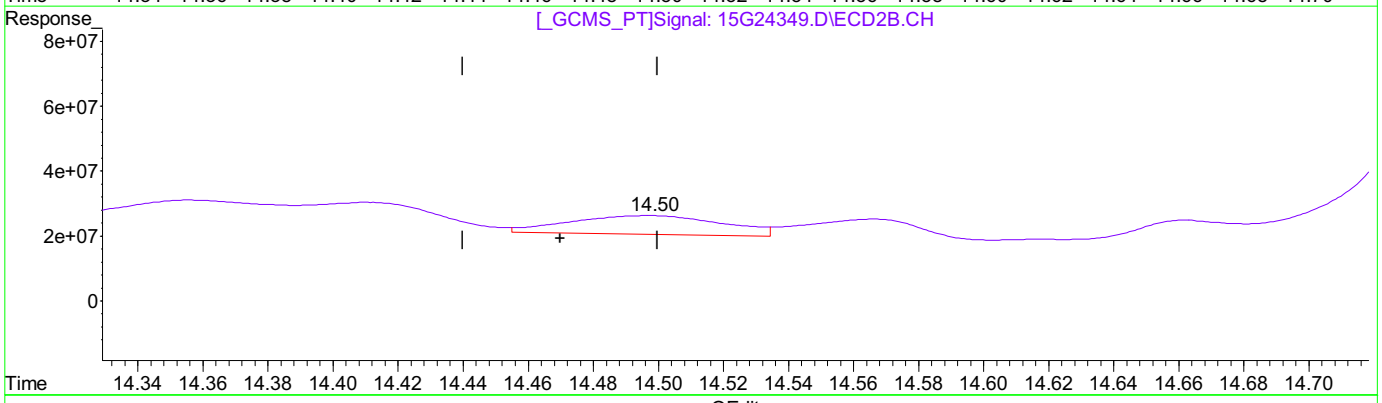
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\120810\
Data File : 15G24349.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Dec 2010 10:58 (#1); 09 Dec 2010 11:27 (#2)
Operator : ECL
Sample : L10120103-01
Misc : 7,1 SOIL
ALS Vial : 51 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 09 12:29:25 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:46:00 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





QEdit

(11) Endosulfan I

14.55min 2.330UG/L

response 289735445

(11) Endosulfan I #2

14.50min 2.040UG/L

response 190016356

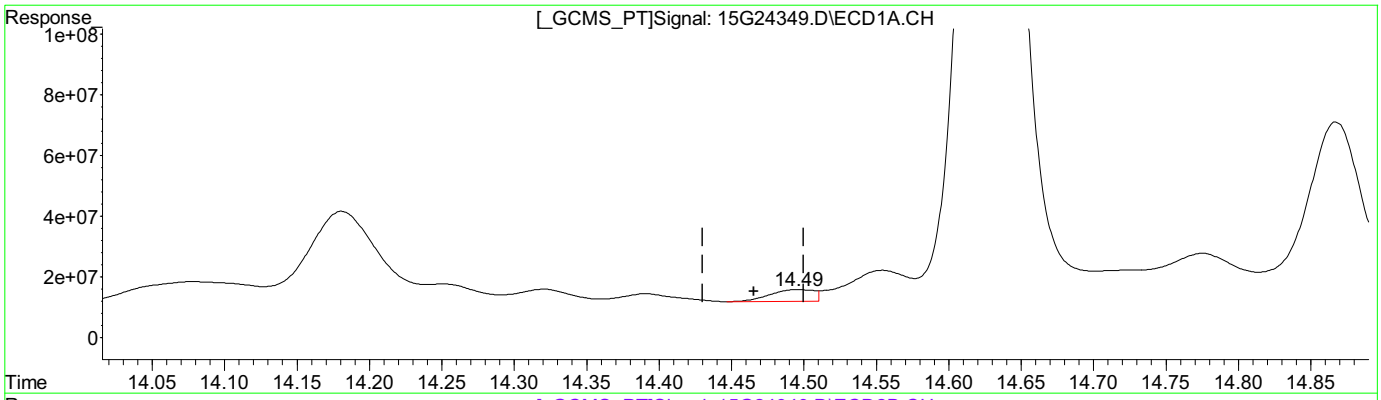
(+) = Expected Retention Time

8081.M Thu Dec 09 13:01:47 2010 Page: 1

Data Path : C:\MSDChem\1\DATA\120810\
Data File : 15G24349.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Dec 2010 10:58 (#1); 09 Dec 2010 11:27 (#2)
Operator : ECL
Sample : L10120103-01
Misc : 7,1 SOIL
ALS Vial : 51 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 09 12:29:25 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:46:00 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



QEdit

(12) 4,4'-DDE

14.50min 0.653UG/L

response 83432516

(12) 4,4'-DDE #2

14.66min 1.250UG/L

response 130852140

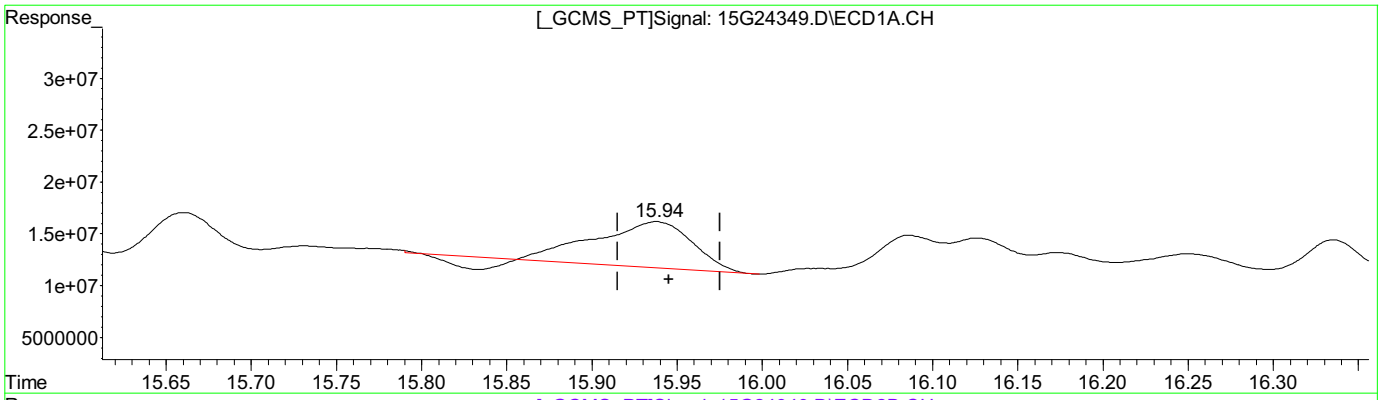
(+) = Expected Retention Time

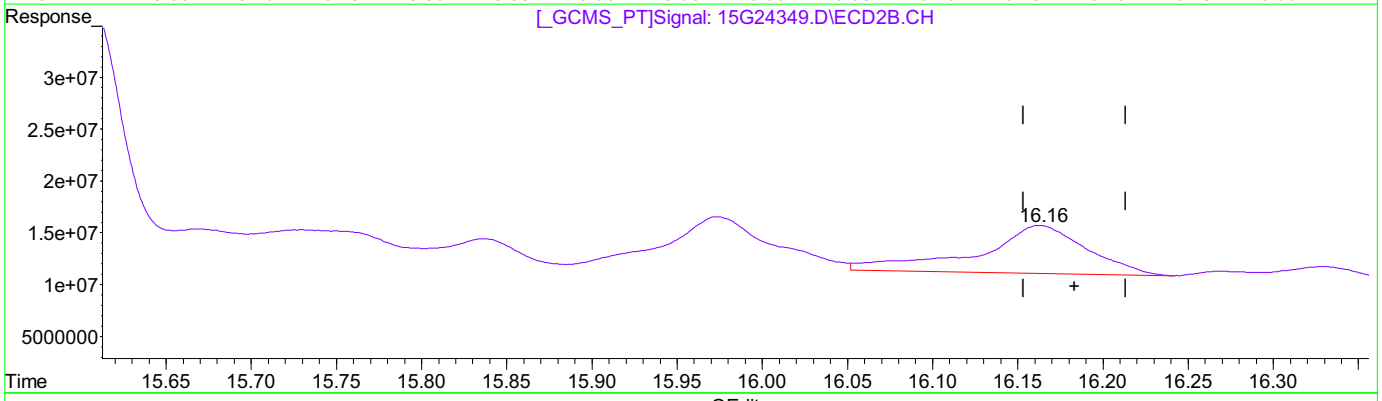
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\120810\
Data File : 15G24349.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Dec 2010 10:58 (#1); 09 Dec 2010 11:27 (#2)
Operator : ECL
Sample : L10120103-01
Misc : 7,1 SOIL
ALS Vial : 51 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 09 12:29:25 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:46:00 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





QEdit

(17) 4,4'-DDT

15.94min 1.354UG/L

response 160111862

(17) 4,4'-DDT #2

16.16min 2.274UG/L

response 204661720

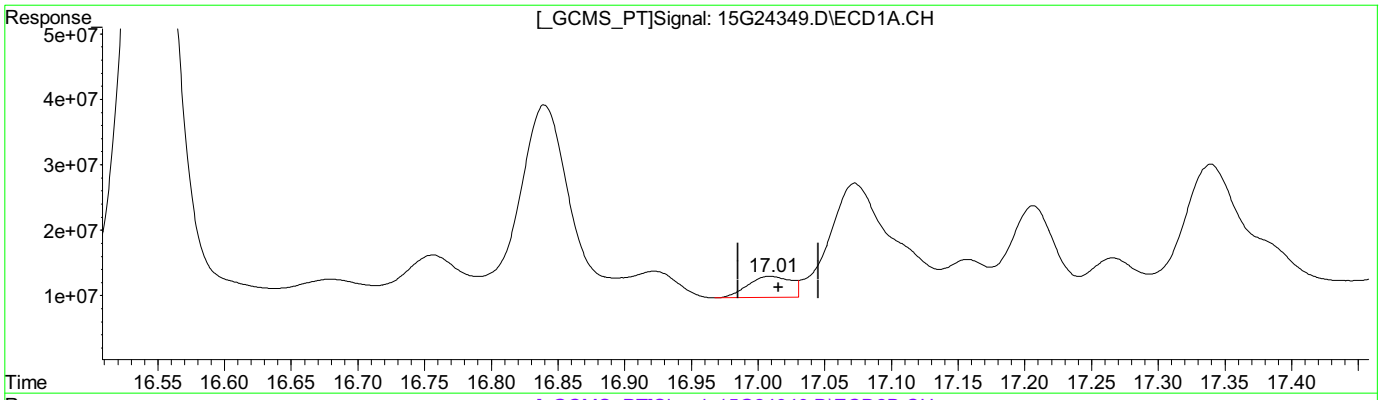
(+) = Expected Retention Time

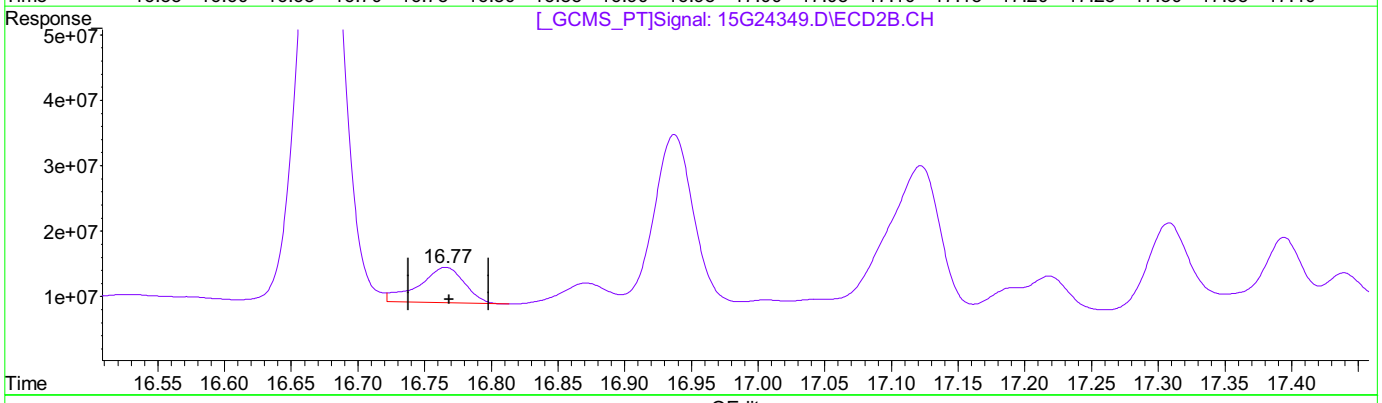
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\120810\
Data File : 15G24349.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Dec 2010 10:58 (#1); 09 Dec 2010 11:27 (#2)
Operator : ECL
Sample : L10120103-01
Misc : 7,1 SOIL
ALS Vial : 51 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 09 12:29:25 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:46:00 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





QEdit

(19) Endosulfan Sulfate

17.01min 0.761UG/L

response 72785473

(19) Endosulfan Sulfate #2

16.77min 1.790UG/L

response 129041827

(+) = Expected Retention Time

8081.M Thu Dec 09 13:02:17 2010 Page: 1

Data Path : C:\MSDChem\1\DATA\120810\
Data File : 15G24350.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Dec 2010 11:27 (#1); 09 Dec 2010 11:55 (#2)
Operator : ECL
Sample : L10120103-02
Misc : 7,1 SOIL
ALS Vial : 52 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 09 12:30:49 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:46:00 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L	
	System Monitoring Compounds							
1) S	2,4,5,6-Tetrachl	9.26	9.17	1686.6E6	1103.3E6	14.830	11.560	
	Spiked Amount 20.000	Range 29 - 133		Recovery =		74.15%	57.80%	
22) S	Decachlorobiphen	18.61	18.89	1104.8E6	908.0E6	13.787	15.075	
	Spiked Amount 20.000	Range 30 - 173		Recovery =		68.94%	75.37%	
	Target Compounds							
2)	alpha-BHC	0.00	10.52	0	67762734	N.D.	0.489	#
3)	gamma-BHC	11.21	0.00	5441.6E6	0	34.904	N.D.	#
4)	beta-BHC	11.41	0.00	437.1E6	0	6.259	N.D.	#
5)	Heptachlor	0.00	0.00	0	0	N.D.	N.D.	
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.	
7)	Aldrin	12.73	12.75f	156.4E6	233.1E6	1.007	1.901	#
8)	Heptachlor Epoxi	13.87f	0.00	337.0E6	0	2.374	N.D.	#
9)	gamma-Chlordane	14.07	14.11	858.0E6	96686209	5.788	0.850	#
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.	
11)	Endosulfan I	14.56f	0.00	551.4E6	0	4.434	N.D.	#
12)	4,4'-DDE	14.50f	14.66f	456.7E6	683.5E6	3.576	6.529	#
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.	
14)	Endrin	0.00	0.00	0	0	N.D.	N.D.	
15)	4,4'-DDD	15.50	15.69	306.6E6	203.7E6	2.952	2.351	
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.	
17)	4,4'-DDT	15.94	0.00	189.1E6	0	1.599	N.D.	#
18)	Endrin Aldehyde	0.00	0.00	0	0	N.D.	N.D.	
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.	
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.	
21)	Endrin Ketone	0.00	0.00	0	0	N.D.	N.D.	

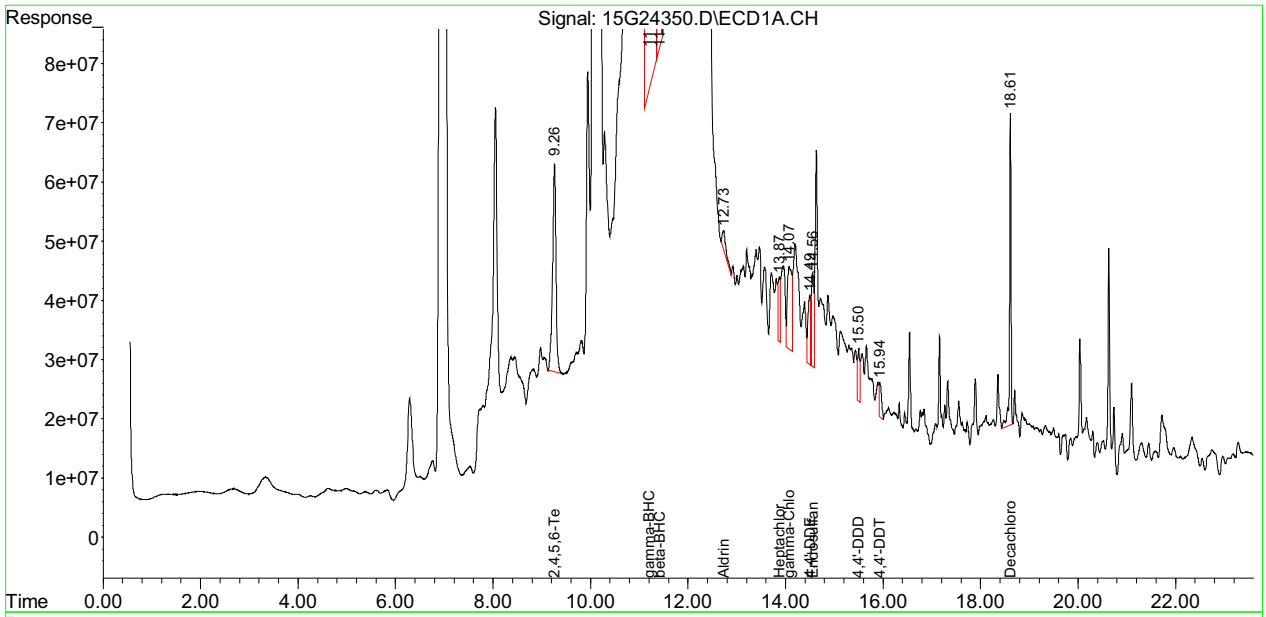
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

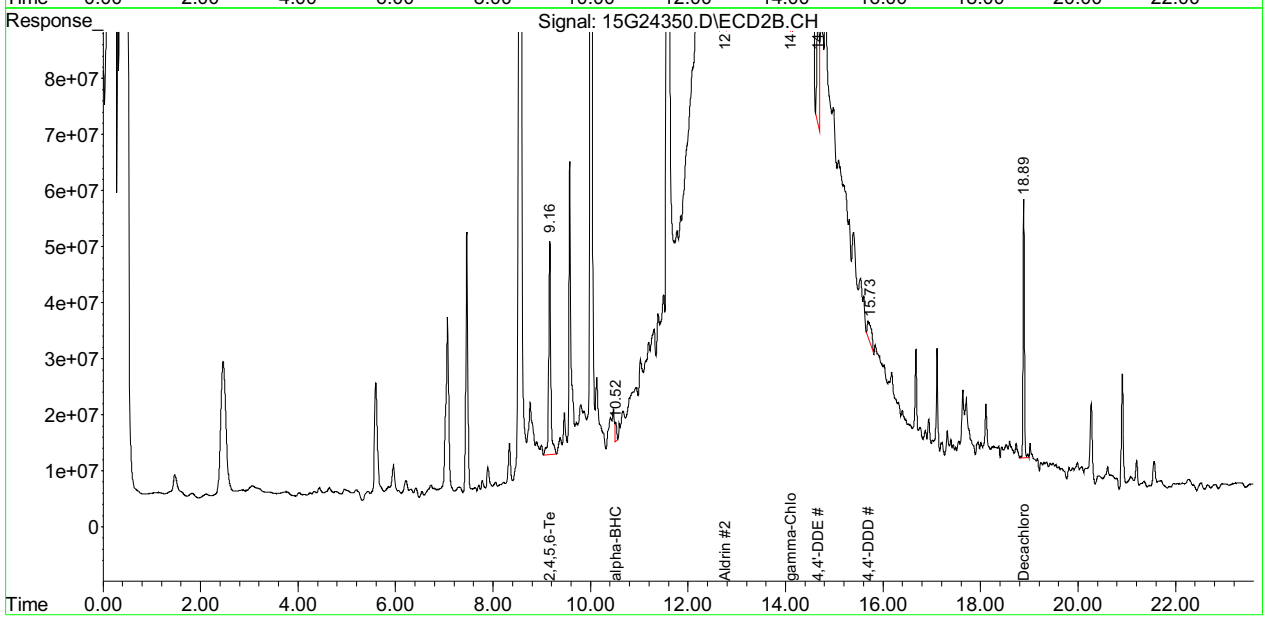
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\120810\
Data File : 15G24350.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Dec 2010 11:27 (#1); 09 Dec 2010 11:55 (#2)
Operator : ECL
Sample : L10120103-02
Misc : 7,1 SOIL
ALS Vial : 52 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 09 12:30:49 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:46:00 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



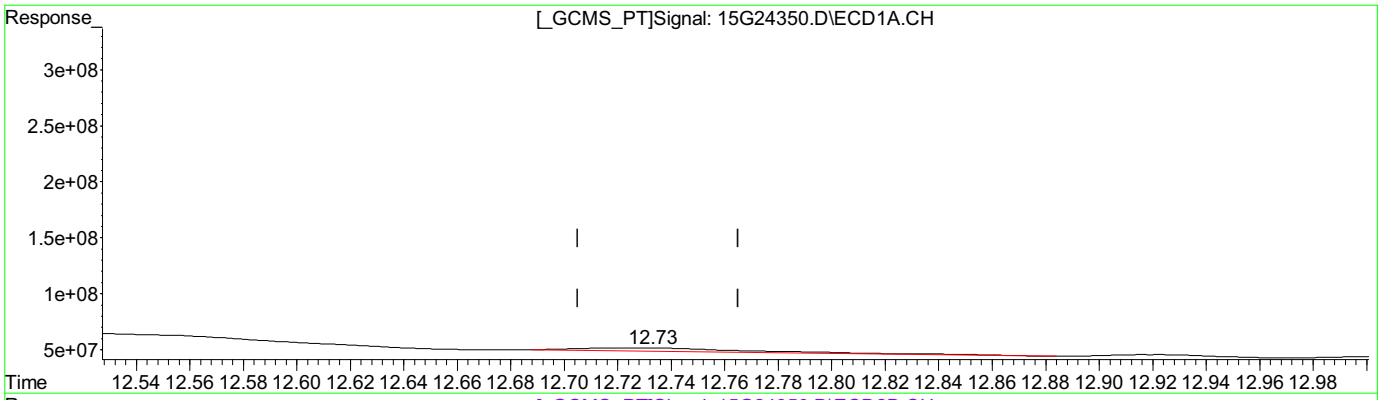


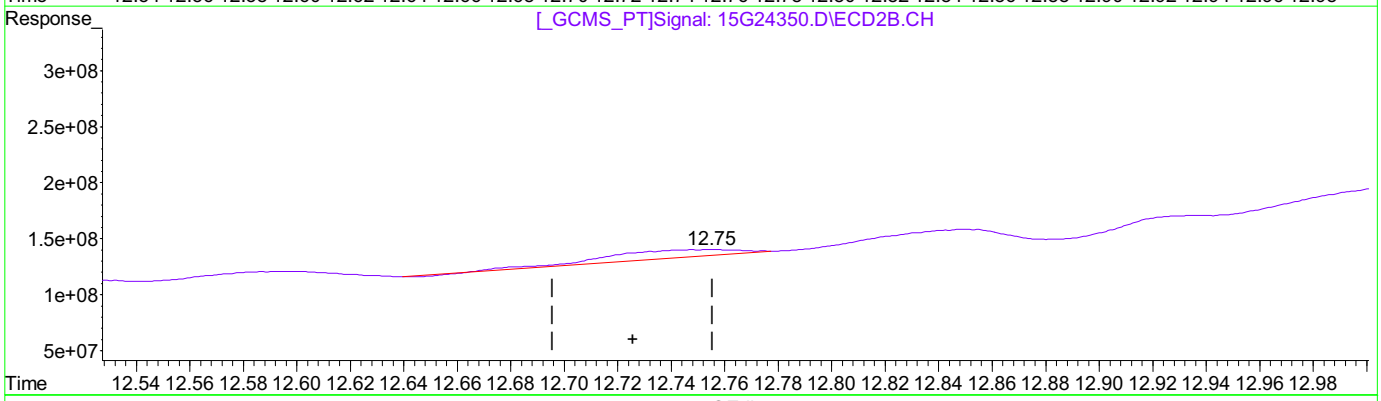
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\120810\
Data File : 15G24350.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Dec 2010 11:27 (#1); 09 Dec 2010 11:55 (#2)
Operator : ECL
Sample : L10120103-02
Misc : 7,1 SOIL
ALS Vial : 52 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 09 12:30:49 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:46:00 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





QEdit

(7) Aldrin

12.73min 1.007UG/L

response 156410741

(7) Aldrin #2

12.75min 1.901UG/L

response 233140516

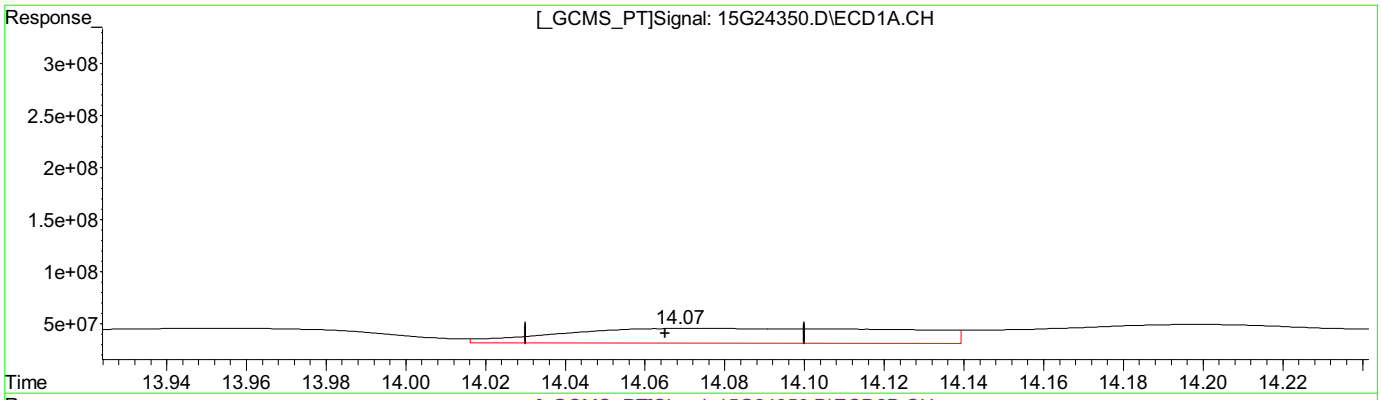
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\120810\
Data File : 15G24350.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Dec 2010 11:27 (#1); 09 Dec 2010 11:55 (#2)
Operator : ECL
Sample : L10120103-02
Misc : 7,1 SOIL
ALS Vial : 52 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 09 12:30:49 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:46:00 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



QEdit

(9) gamma-Chlordane

14.07min 5.788UG/L

response 858024874

(9) gamma-Chlordane #2

14.11min 0.850UG/L

response 96686209

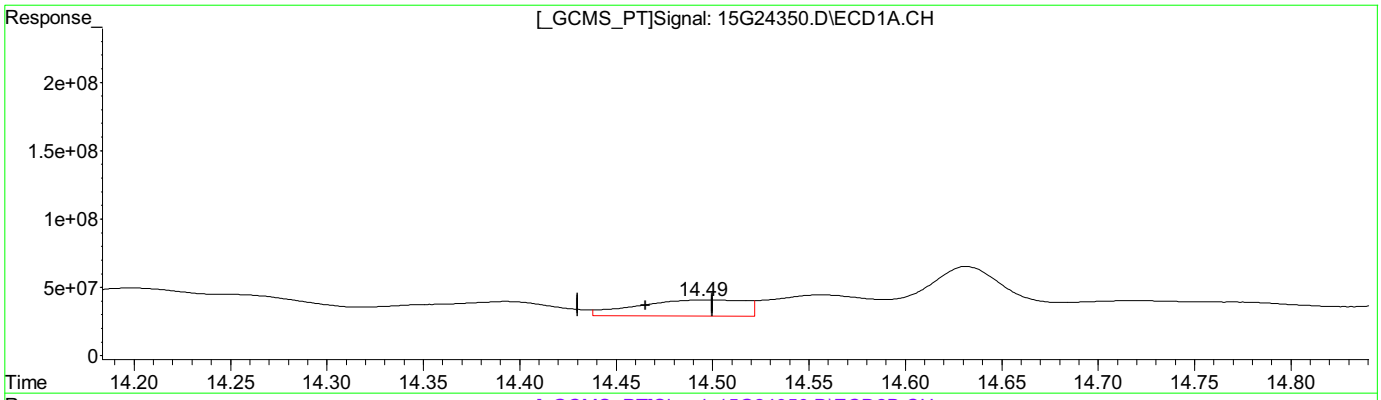
(+) = Expected Retention Time

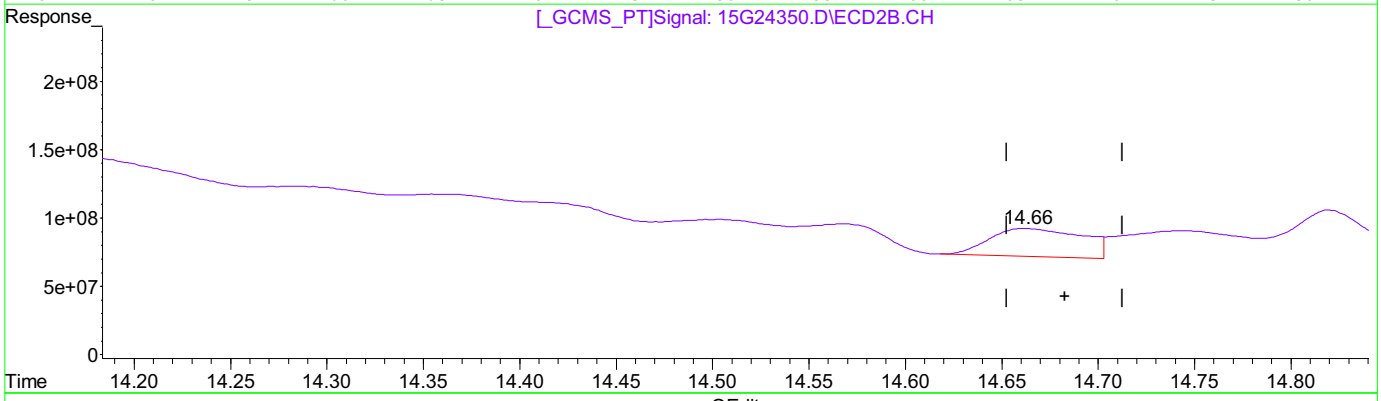
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\120810\
Data File : 15G24350.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Dec 2010 11:27 (#1); 09 Dec 2010 11:55 (#2)
Operator : ECL
Sample : L10120103-02
Misc : 7,1 SOIL
ALS Vial : 52 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 09 12:30:49 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:46:00 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





QEdit

(12) 4,4'-DDE

14.50min 3.576UG/L

response 456682106

(12) 4,4'-DDE #2

14.66min 6.529UG/L

response 683483651

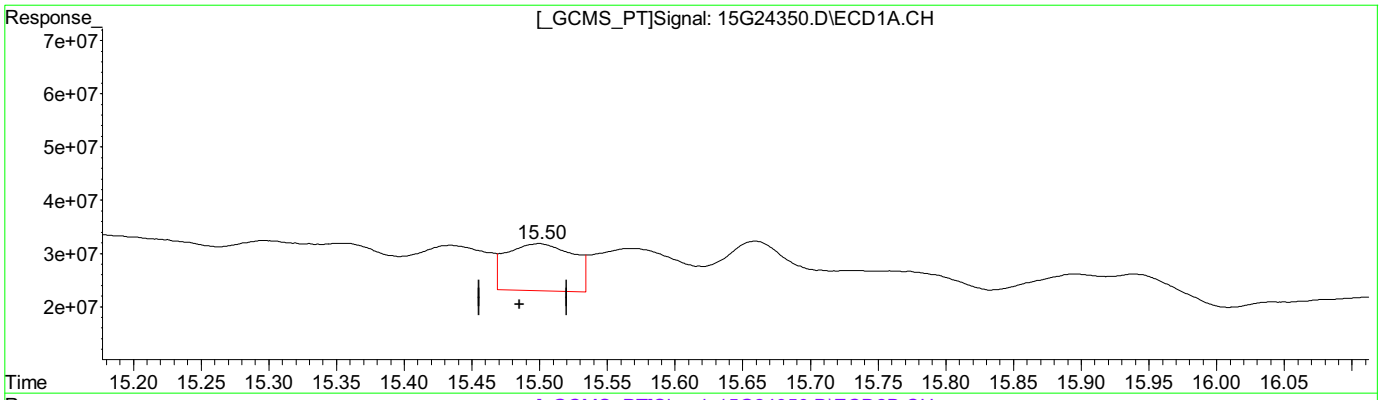
(+) = Expected Retention Time

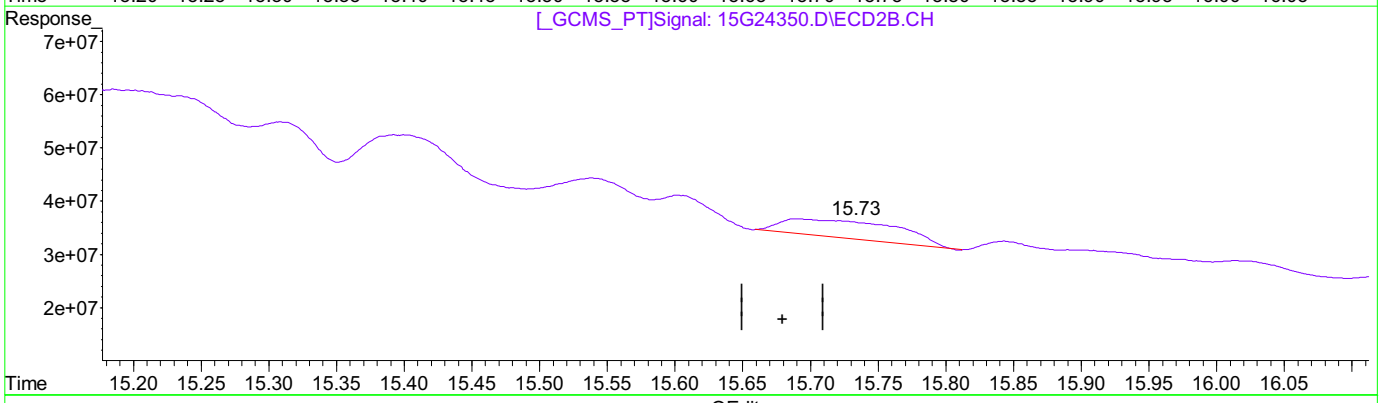
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\120810\
Data File : 15G24350.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Dec 2010 11:27 (#1); 09 Dec 2010 11:55 (#2)
Operator : ECL
Sample : L10120103-02
Misc : 7,1 SOIL
ALS Vial : 52 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 09 12:30:49 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:46:00 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





QEdit

(15) 4,4'-DDD

15.50min 2.952UG/L

response 306596537

(15) 4,4'-DDD #2

15.69min 2.351UG/L

response 203722518

(+) = Expected Retention Time

8081.M Thu Dec 09 13:04:49 2010 Page: 1

Data Path : C:\MSDChem\1\DATA\120810\
Data File : 15G24351.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Dec 2010 11:55 (#1); 09 Dec 2010 12:23 (#2)
Operator : ECL
Sample : L10120103-03
Misc : 7,1 SOIL
ALS Vial : 53 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 09 13:06:34 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L	
	System Monitoring Compounds							
1)	S 2,4,5,6-Tetrachl	9.26	9.16	3105.3E6	1364.8E6	27.304	14.299	#
	Spiked Amount 20.000	Range 29 - 133		Recovery =		136.52%#	71.50%	
22)	S Decachlorobiphen	18.61	18.89	1301.1E6	1145.0E6	16.237	19.011	
	Spiked Amount 20.000	Range 30 - 173		Recovery =		81.19%	95.06%	
	Target Compounds							
2)	alpha-BHC	0.00	10.52	0	116.7E6	N.D.	0.842	#
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.	
4)	beta-BHC	11.41	0.00	1641.4E6	0	23.502	N.D.	#
5)	Heptachlor	0.00	0.00	0	0	N.D.	N.D.	
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.	
7)	Aldrin	12.73	12.75f	313.4E6	939.7E6	2.019	7.661	#
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.	
9)	gamma-Chlordane	14.09f	14.11	1772.8E6	77437182	11.959	0.681	#
10)	alpha-Chlordane	0.00	14.36f	0	1200.7E6	N.D.	10.927	#
11)	Endosulfan I	14.56f	0.00	1311.6E6	0	10.547	N.D.	#
12)	4,4'-DDE	0.00	14.66f	0	988.0E6	N.D.	9.438	#
13)	Dieldrin	14.97	0.00	2094.7E6	0	16.873	N.D.	#
14)	Endrin	0.00	0.00	0	0	N.D.	N.D.	
15)	4,4'-DDD	15.50	15.69	710.4E6	194.4E6	6.841	2.243	#
16)	Endosulfan II	0.00	15.84	0	395.4E6	N.D.	4.275	#
17)	4,4'-DDT	0.00	0.00	0	0	N.D.	N.D.	
18)	Endrin Aldehyde	0.00	0.00	0	0	N.D.	N.D.	
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.	
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.	
21)	Endrin Ketone	0.00	0.00	0	0	N.D.	N.D.	

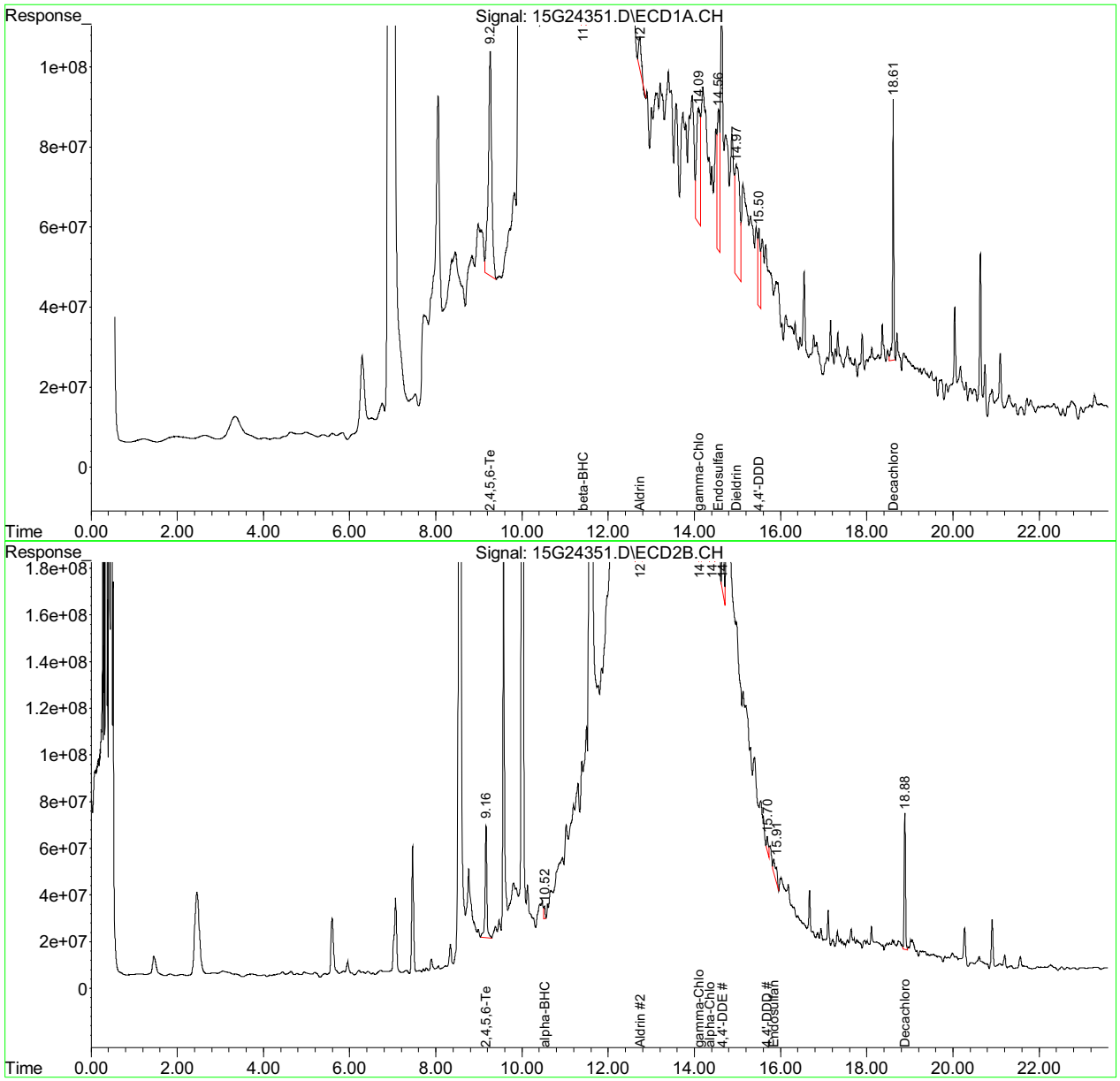
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\120810\
Data File : 15G24351.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Dec 2010 11:55 (#1); 09 Dec 2010 12:23 (#2)
Operator : ECL
Sample : L10120103-03
Misc : 7,1 SOIL
ALS Vial : 53 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 09 13:06:34 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

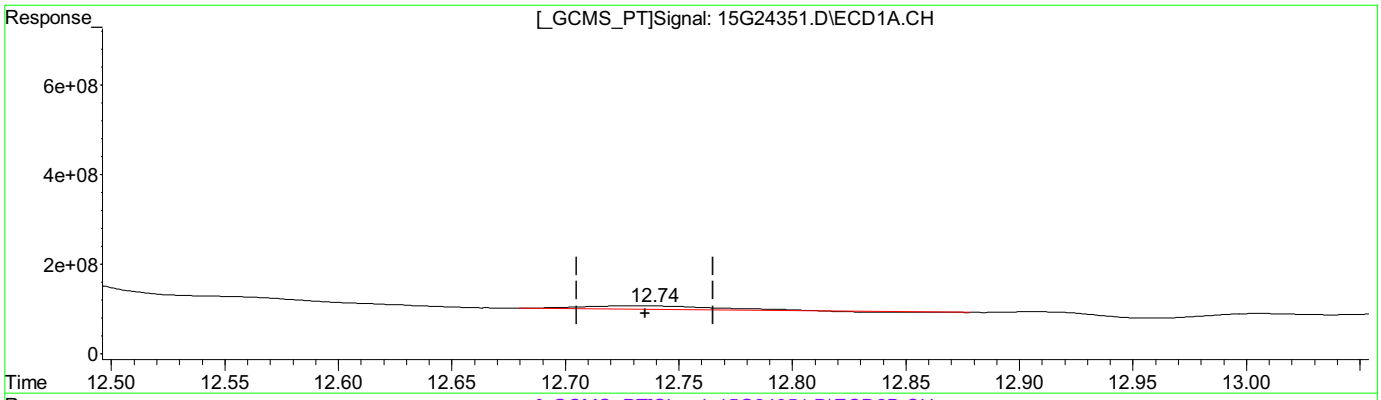


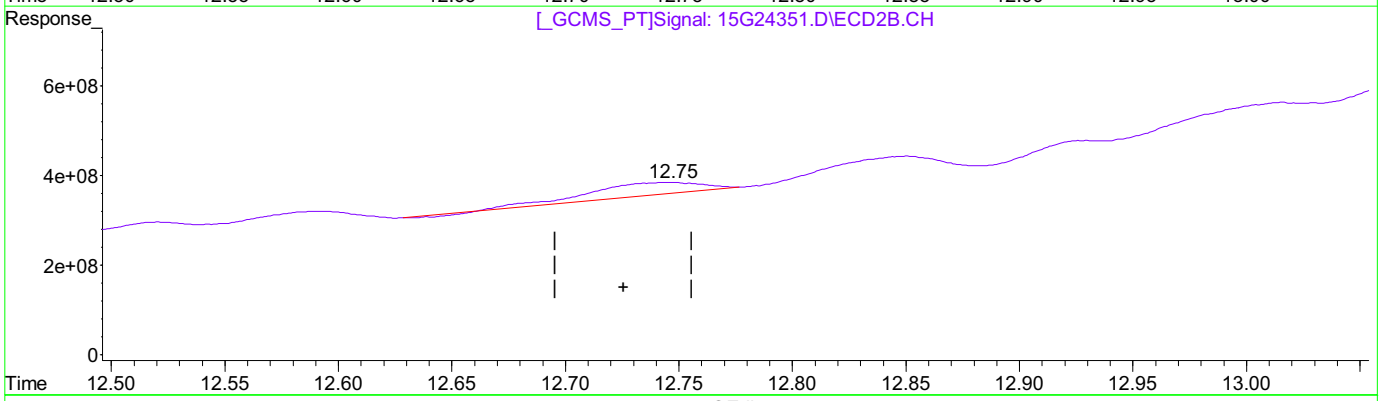
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\120810\
Data File : 15G24351.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Dec 2010 11:55 (#1); 09 Dec 2010 12:23 (#2)
Operator : ECL
Sample : L10120103-03
Misc : 7,1 SOIL
ALS Vial : 53 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 09 13:06:34 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





QEdit

(7) Aldrin

12.73min 2.019UG/L

response 313425801

(7) Aldrin #2

12.75min 7.661UG/L

response 939723077

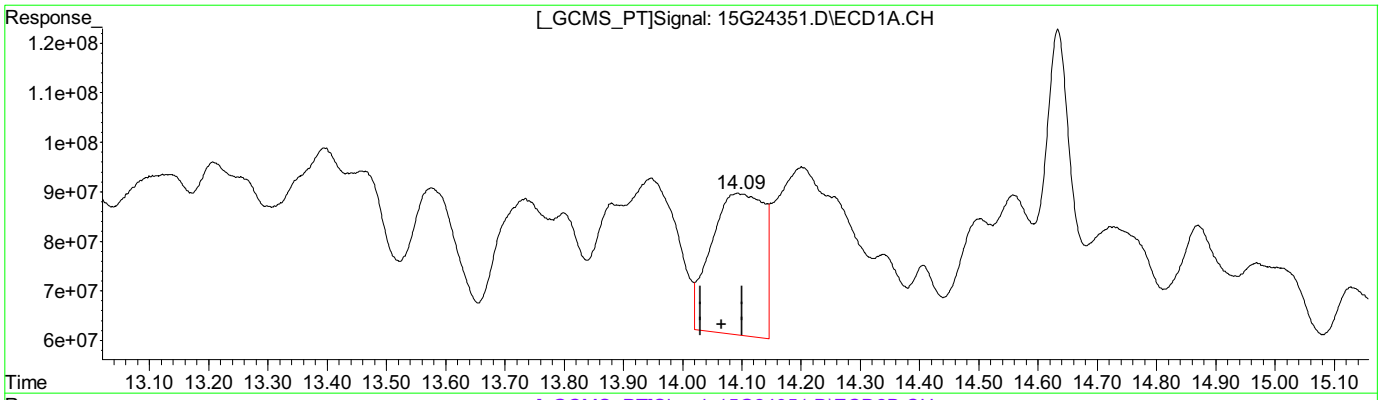
(+) = Expected Retention Time

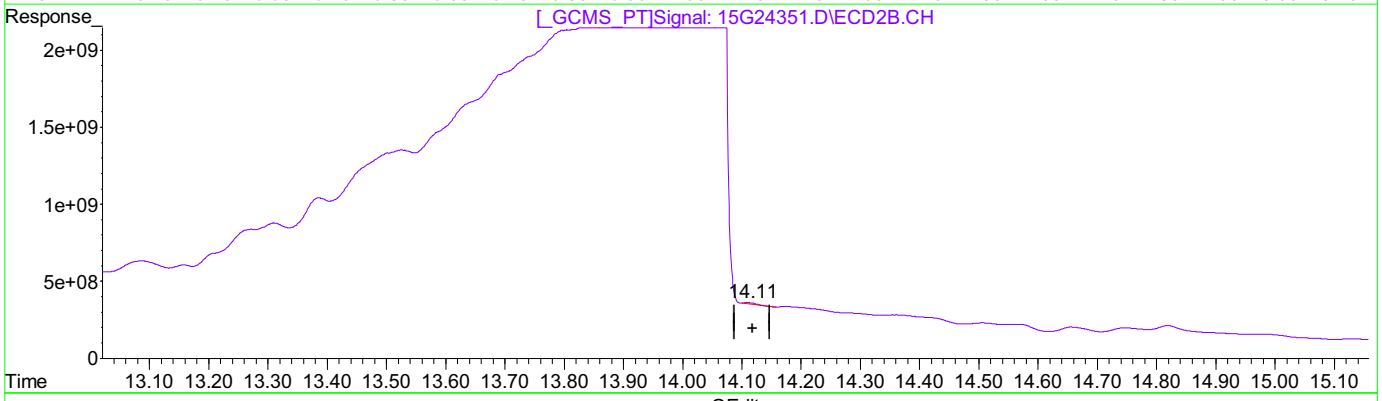
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\120810\
Data File : 15G24351.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Dec 2010 11:55 (#1); 09 Dec 2010 12:23 (#2)
Operator : ECL
Sample : L10120103-03
Misc : 7,1 SOIL
ALS Vial : 53 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 09 13:06:34 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





QEdit

(9) gamma-Chlordane

14.09min 11.959UG/L

response 1772788701

(9) gamma-Chlordane #2

14.11min 0.681UG/L

response 77437182

(+) = Expected Retention Time

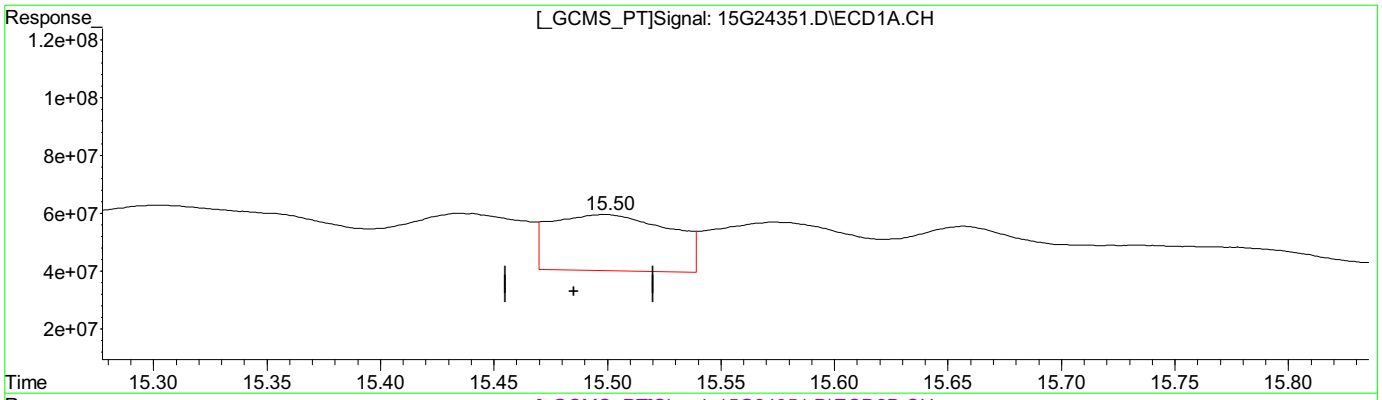
8081.M Thu Dec 09 13:07:57 2010 Page: 1

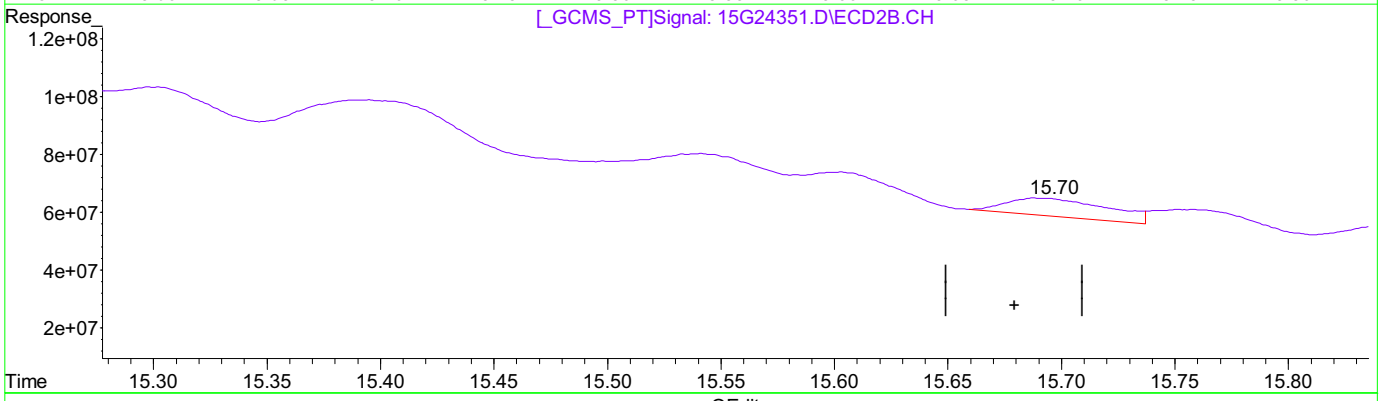
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\120810\
Data File : 15G24351.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Dec 2010 11:55 (#1); 09 Dec 2010 12:23 (#2)
Operator : ECL
Sample : L10120103-03
Misc : 7,1 SOIL
ALS Vial : 53 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 09 13:06:34 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





QEdit

(15) 4,4'-DDD

15.50min 6.841UG/L

response 710372684

(15) 4,4'-DDD #2

15.69min 2.243UG/L

response 194430830

(+) = Expected Retention Time

8081.M Thu Dec 09 13:08:14 2010 Page: 1

Data Path : C:\MSDChem\1\DATA\120810\
Data File : 15G24352.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Dec 2010 12:23 (#1); 09 Dec 2010 12:52 (#2)
Operator : ECL
Sample : L10120103-04
Misc : 7,1 SOIL
ALS Vial : 54 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 09 13:16:29 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L	
	System Monitoring Compounds							
1)	S 2,4,5,6-Tetrachl	9.26	9.17	1545.7E6	1037.5E6	13.591	10.870	
	Spiked Amount 20.000	Range 30 - 132		Recovery =		67.95%	54.35%	
22)	S Decachlorobiphen	18.61	18.89	1236.4E6	1487.9E6	15.430	24.703	#
	Spiked Amount 20.000	Range 36 - 144		Recovery =		77.15%	123.52%	
	Target Compounds							
2)	alpha-BHC	10.55	0.00	634.4E6	0	3.801	N.D.	#
3)	gamma-BHC	11.22	11.29f	2129.6E6	167.4E6	13.660	1.185	#
4)	beta-BHC	11.43	0.00	453.1E6	0	6.488	N.D.	#
5)	Heptachlor	12.16	0.00	182.6E6	0	1.205	N.D.	#
6)	delta-BHC	11.78f	0.00	375.0E6	0	2.451	N.D.	#
7)	Aldrin	12.74	0.00	58978503	0	0.380	N.D.	#
8)	Heptachlor Epoxi	13.86f	0.00	334.1E6	0	2.353	N.D.	#
9)	gamma-Chlordane	14.05f	14.13	87162198	161.7E6	0.588	1.421	#
10)	alpha-Chlordane	0.00	14.37	0	267.1E6	N.D.	2.430	#
11)	Endosulfan I	14.56f	0.00	316.2E6	0	2.542	N.D.	#
12)	4,4'-DDE	14.50f	14.67f	90796169	102.1E6	0.711	0.975	#
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.	
14)	Endrin	15.36f	0.00	137.9E6	0	1.136	N.D.	#
15)	4,4'-DDD	15.50	0.00	299.0E6	0	2.879	N.D.	#
16)	Endosulfan II	0.00	15.84	0	48537609	N.D.	0.525	#
17)	4,4'-DDT	15.94	0.00	220.3E6	0	1.863	N.D.	#
18)	Endrin Aldehyde	0.00	0.00	0	0	N.D.	N.D.	
19)	Endosulfan Sulfa	17.01	16.77	91110535	210.4E6	0.953	2.919	#
20)	Methoxychlor	16.67	0.00	90996799	0	1.612	N.D.	#
21)	Endrin Ketone	0.00	17.50f	0	158.1E6	N.D.	1.960	#

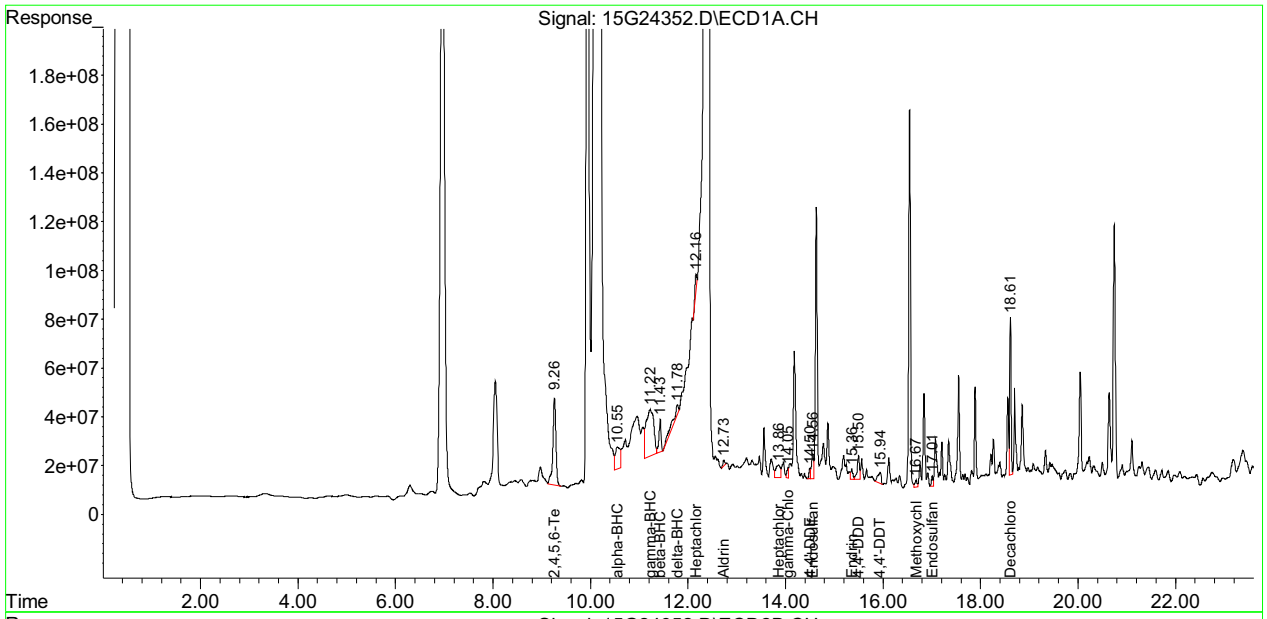
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\120810\
Data File : 15G24352.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Dec 2010 12:23 (#1); 09 Dec 2010 12:52 (#2)
Operator : ECL
Sample : L10120103-04
Misc : 7,1 SOIL
ALS Vial : 54 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 09 13:16:29 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

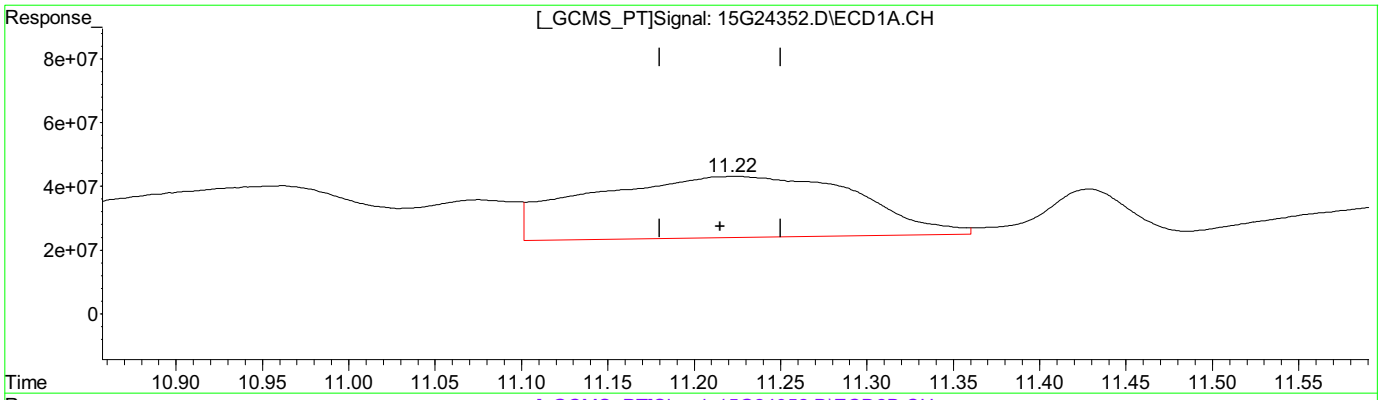


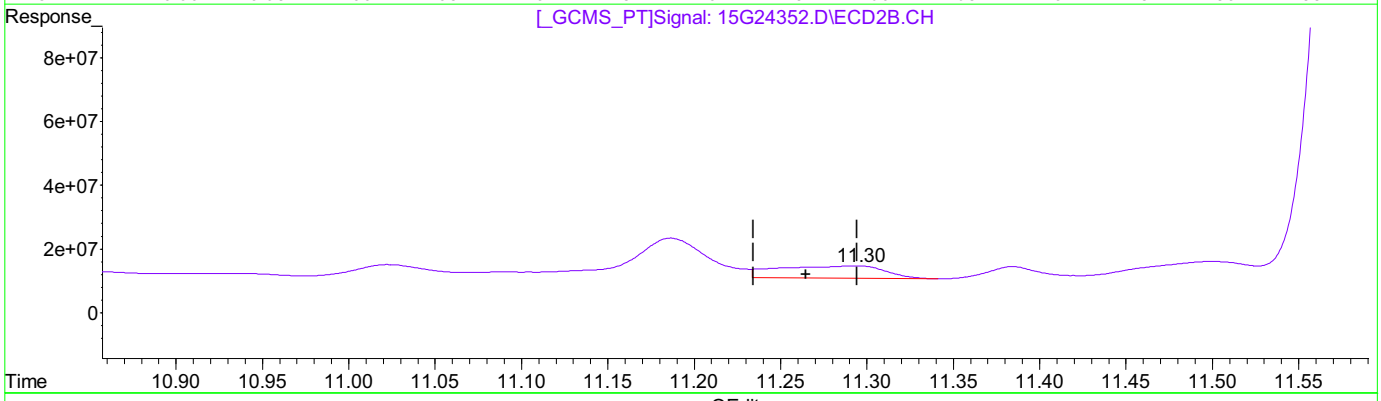
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\120810\
Data File : 15G24352.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Dec 2010 12:23 (#1); 09 Dec 2010 12:52 (#2)
Operator : ECL
Sample : L10120103-04
Misc : 7,1 SOIL
ALS Vial : 54 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 09 13:16:29 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





QEdit

(3) gamma-BHC

11.22min 13.660UG/L

response 2129604450

(3) gamma-BHC #2

11.29min 1.185UG/L

response 167374735

(+) = Expected Retention Time

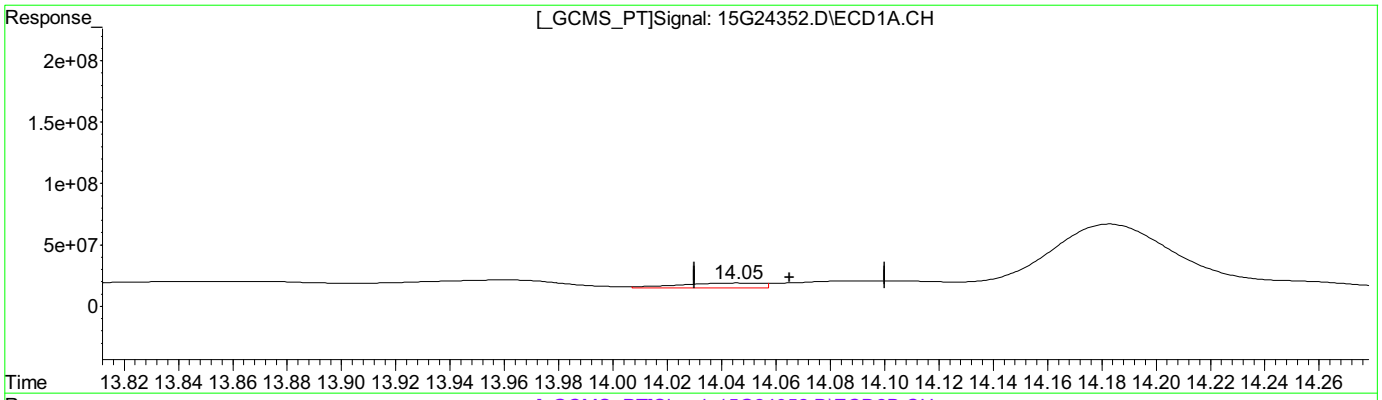
8081.M Thu Dec 09 13:19:20 2010 Page: 1

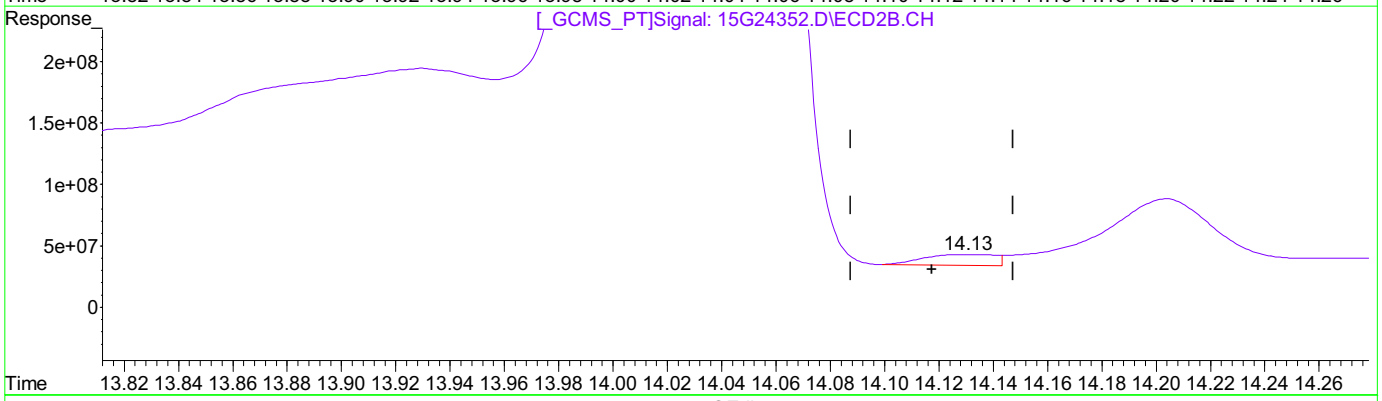
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\120810\
Data File : 15G24352.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Dec 2010 12:23 (#1); 09 Dec 2010 12:52 (#2)
Operator : ECL
Sample : L10120103-04
Misc : 7,1 SOIL
ALS Vial : 54 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 09 13:16:29 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





QEdit

(9) gamma-Chlordane

14.05min 0.588UG/L

response 87162198

(9) gamma-Chlordane #2

14.13min 1.421UG/L

response 161669690

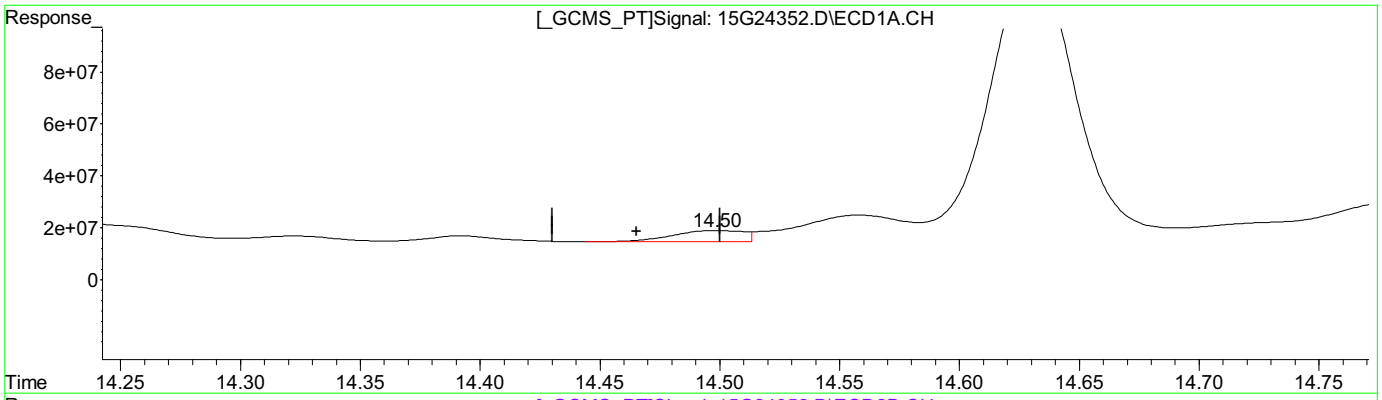
(+) = Expected Retention Time

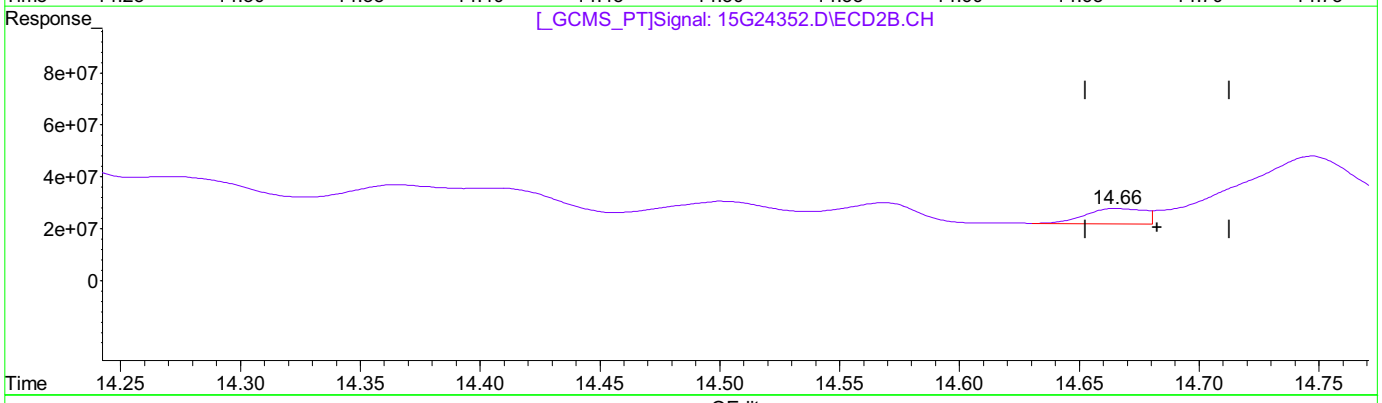
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\120810\
Data File : 15G24352.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Dec 2010 12:23 (#1); 09 Dec 2010 12:52 (#2)
Operator : ECL
Sample : L10120103-04
Misc : 7,1 SOIL
ALS Vial : 54 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 09 13:16:29 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





QEdit

(12) 4,4'-DDE

14.50min 0.711UG/L

response 90796169

(12) 4,4'-DDE #2

14.67min 0.975UG/L

response 102090600

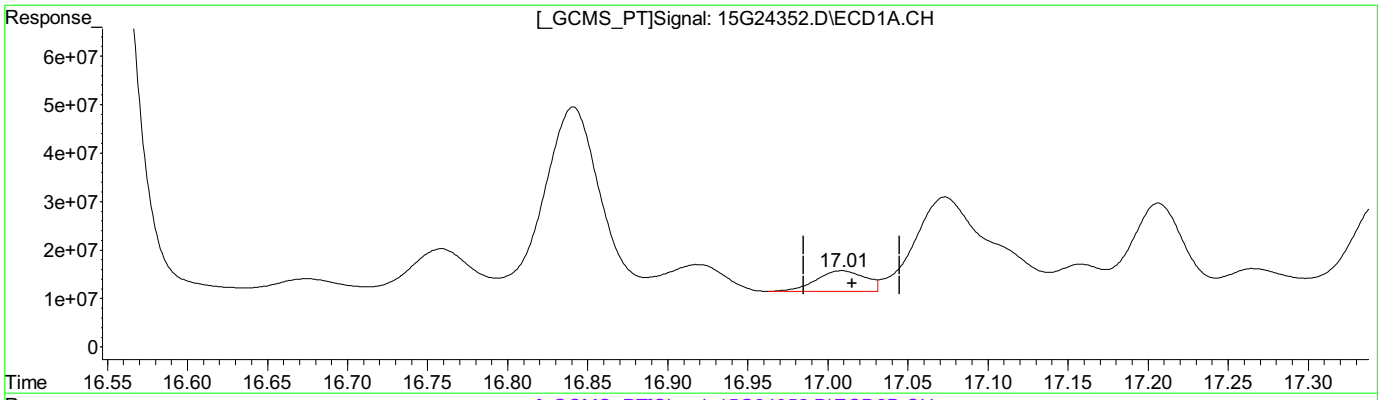
(+) = Expected Retention Time

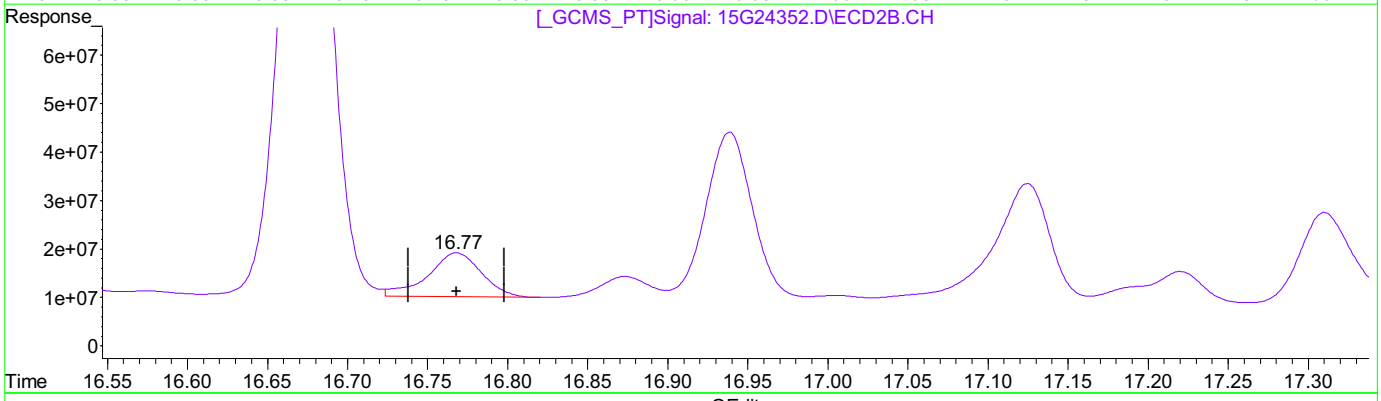
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\120810\
Data File : 15G24352.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Dec 2010 12:23 (#1); 09 Dec 2010 12:52 (#2)
Operator : ECL
Sample : L10120103-04
Misc : 7,1 SOIL
ALS Vial : 54 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 09 13:16:29 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





QEdit

(19) Endosulfan Sulfate

17.01min 0.953UG/L

response 91110535

(19) Endosulfan Sulfate #2

16.77min 2.919UG/L

response 210368960

(+) = Expected Retention Time

2.1.1.4 Standards Data

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23702.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 19:24 (#1); 27 Sep 2010 19:52 (#2)
Operator : ECL
Sample : WG343902-01 PEST ICAL 200 PPB
Misc : 1,1 STD40207
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:16:49 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:16:47 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.28	9.18	22953.6E6	17680.4E6	205.120	180.388
	Spiked Amount 20.000	Range 30 - 132		Recovery = 1025.60%#		901.94%#	
22) S	Decachlorobiphen	18.63	18.90	13999.5E6	10537.1E6	176.954	185.819
	Spiked Amount 20.000	Range 36 - 144		Recovery = 884.77%#		929.09%#	
	Target Compounds						
2)	alpha-BHC	10.57	10.54	36594.4E6	28042.1E6	220.668	177.611
3)	gamma-BHC	11.24	11.27	33131.4E6	27405.0E6	198.474	186.979
4)	beta-BHC	11.44	11.46	13625.4E6	11793.4E6	170.776	181.999
5)	Heptachlor	12.19	12.13	27604.8E6	23694.1E6	162.180	177.500
6)	delta-BHC	11.78	12.02	33542.1E6	27983.5E6	189.902	195.270
7)	Aldrin	12.76	12.74	29991.5E6	22416.3E6	197.477	183.947
8)	Heptachlor Epoxi	13.87	13.79	24925.4E6	18364.1E6	179.704	177.698
9)	gamma-Chlordane	14.09	14.13	28416.2E6	21552.7E6	198.823	187.984
10)	alpha-Chlordane	14.33	14.39	26284.4E6	20399.6E6	197.851	184.963
11)	Endosulfan I	14.56	14.48	22146.0E6	15964.4E6	182.877	171.530
12)	4,4'-DDE	14.48	14.69	25881.1E6	19941.0E6	204.443	191.427
13)	Dieldrin	14.98	14.96	22624.1E6	19765.5E6	186.075	181.731
14)	Endrin	15.37	15.48	22639.0E6	16634.2E6	191.452	186.125
15)	4,4'-DDD	15.50	15.69	21194.2E6	16614.0E6	201.499	189.629
16)	Endosulfan II	15.75	15.85	20609.7E6	16141.1E6	177.177	173.997
17)	4,4'-DDT	15.96	16.19	22560.8E6	17325.4E6	193.873	200.465
18)	Endrin Aldehyde	16.41	16.38	15979.0E6	11769.2E6	175.685	159.653
19)	Endosulfan Sulfa	17.04	16.78	17294.0E6	13469.4E6	181.609	168.226
20)	Methoxychlor	16.70	17.17	9867.6E6	7439.0E6	181.362	181.556
21)	Endrin Ketone	17.41	17.49	19622.2E6	14657.1E6	182.462	173.823

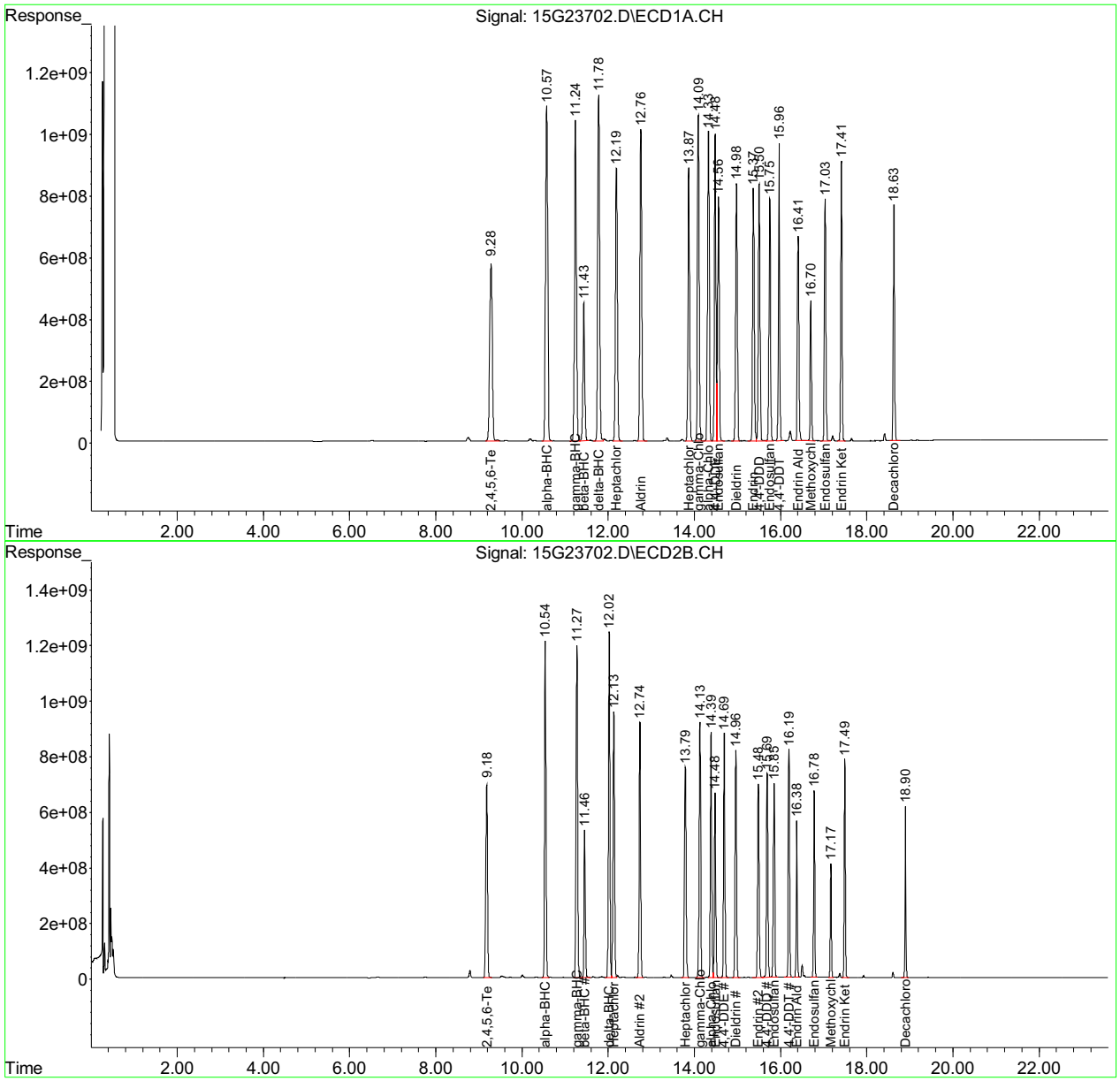
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23702.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 19:24 (#1); 27 Sep 2010 19:52 (#2)
Operator : ECL
Sample : WG343902-01 PEST ICAL 200 PPB
Misc : 1,1 STD40207
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:16:49 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:16:47 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23703.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 19:52 (#1); 27 Sep 2010 20:21 (#2)
Operator : ECL
Sample : WG343902-02 PEST ICAL 100 PPB
Misc : 1,1 STD40207
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:17:05 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:17:03 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

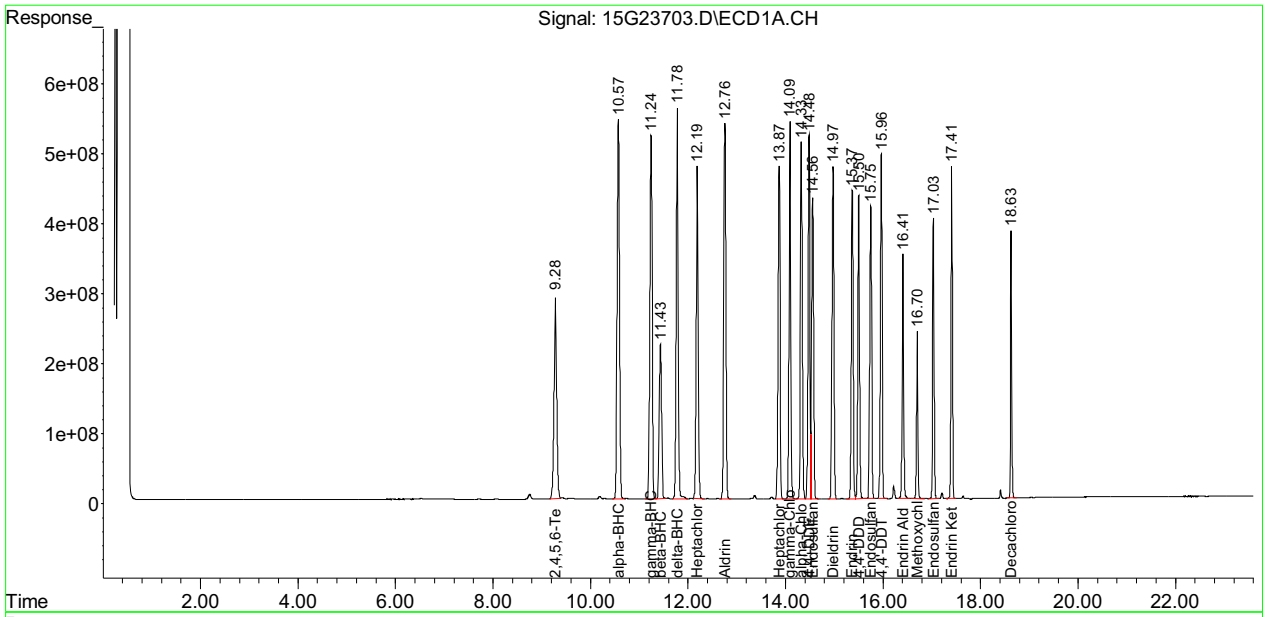
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.28	9.18	11302.6E6	9043.9E6	101.075	92.546
	Spiked Amount 20.000	Range 30 - 132		Recovery =		505.38%#	462.73%#
22) S	Decachlorobiphen	18.63	18.90	7016.8E6	5265.7E6	88.754	92.324
	Spiked Amount 20.000	Range 36 - 144		Recovery =		443.77%#	461.62%#
	Target Compounds						
2)	alpha-BHC	10.57	10.54	18039.0E6	14273.4E6	108.889	92.702
3)	gamma-BHC	11.24	11.28	16381.4E6	14076.6E6	100.235	96.738
4)	beta-BHC	11.43	11.46	6743.3E6	6001.0E6	86.724	92.822
5)	Heptachlor	12.19	12.13	14584.5E6	12630.2E6	87.752	94.390
6)	delta-BHC	11.78	12.02	16650.9E6	14214.4E6	96.931	99.626
7)	Aldrin	12.76	12.74	15543.1E6	11866.1E6	102.395	97.377
8)	Heptachlor Epoxi	13.87	13.79	13184.5E6	9636.5E6	94.918	93.883
9)	gamma-Chlordane	14.09	14.13	14316.4E6	11044.0E6	100.324	96.523
10)	alpha-Chlordane	14.33	14.39	13449.7E6	10447.9E6	101.446	94.892
11)	Endosulfan I	14.56	14.48	11749.3E6	8119.2E6	96.985	88.982
12)	4,4'-DDE	14.48	14.69	13215.4E6	10327.5E6	104.623	99.314
13)	Dieldrin	14.98	14.96	12613.3E6	10387.0E6	103.939	95.611
14)	Endrin	15.37	15.48	11852.4E6	8456.0E6	100.096	95.522
15)	4,4'-DDD	15.50	15.69	10716.1E6	8525.2E6	102.346	97.630
16)	Endosulfan II	15.75	15.85	10742.1E6	8460.9E6	92.339	91.391
17)	4,4'-DDT	15.96	16.19	11516.9E6	8864.5E6	98.919	102.328
18)	Endrin Aldehyde	16.41	16.38	8333.5E6	5990.5E6	91.646	82.420
19)	Endosulfan Sulfa	17.03	16.78	8739.2E6	6905.6E6	92.329	87.296
20)	Methoxychlor	16.70	17.17	5145.3E6	3827.7E6	94.192	92.990
21)	Endrin Ketone	17.41	17.49	10067.2E6	7608.1E6	94.069	91.014

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23703.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 19:52 (#1); 27 Sep 2010 20:21 (#2)
Operator : ECL
Sample : WG343902-02 PEST ICAL 100 PPB
Misc : 1,1 STD40207
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:17:05 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:17:03 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23704.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 20:21 (#1); 27 Sep 2010 20:49 (#2)
Operator : ECL
Sample : WG343902-03 PEST ICAL 20 PPB
Misc : 1,1 STD40207
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:17:24 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:17:22 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

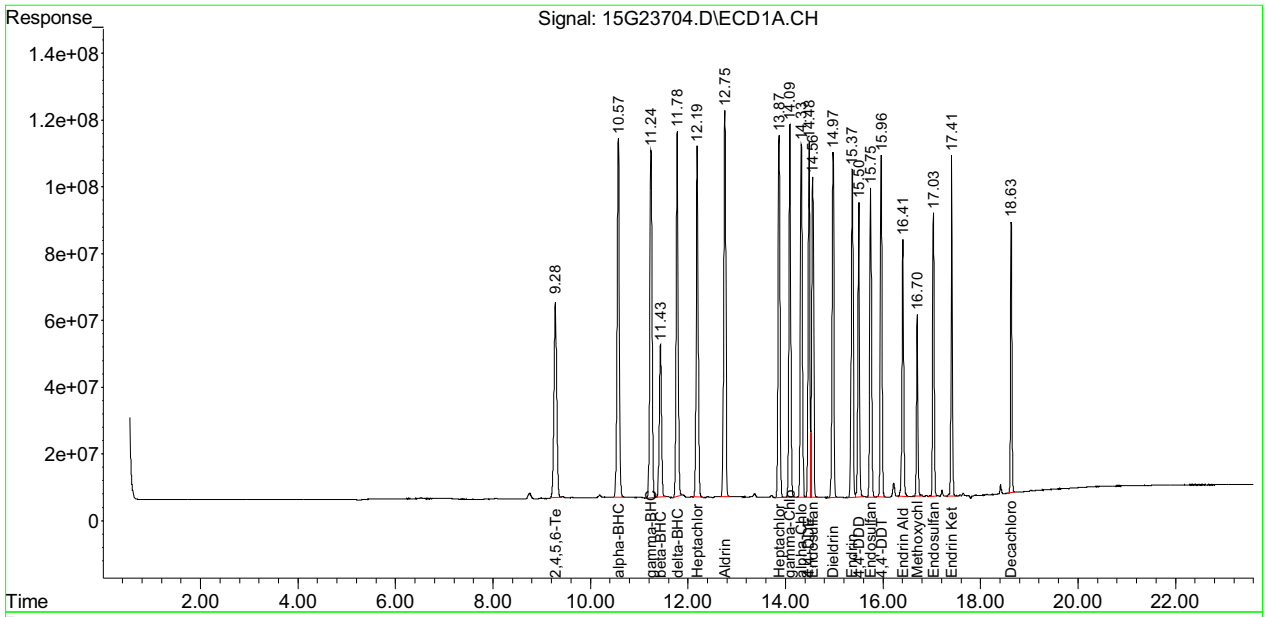
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.28	9.18	2307.2E6	1903.9E6	20.561	19.608
	Spiked Amount 20.000	Range 30 - 132		Recovery =		102.80%	98.04%
22) S	Decachlorobiphen	18.63	18.90	1530.5E6	1142.7E6	19.316	19.837
	Spiked Amount 20.000	Range 36 - 144		Recovery =		96.58%	99.19%
	Target Compounds						
2)	alpha-BHC	10.57	10.54	3487.0E6	2879.7E6	20.995	19.314
3)	gamma-BHC	11.24	11.28	3232.3E6	2902.9E6	20.177	20.176
4)	beta-BHC	11.43	11.46	1403.3E6	1277.6E6	18.534	19.873
5)	Heptachlor	12.19	12.13	3140.8E6	2793.6E6	19.339	20.861
6)	delta-BHC	11.78	12.02	3187.2E6	2897.2E6	19.134	20.458
7)	Aldrin	12.76	12.74	3238.4E6	2532.3E6	21.254	20.833
8)	Heptachlor Epoxi	13.87	13.79	2905.9E6	2179.9E6	20.834	21.359
9)	gamma-Chlordane	14.09	14.13	2937.3E6	2308.3E6	20.510	20.252
10)	alpha-Chlordane	14.33	14.39	2780.4E6	2188.6E6	20.897	19.971
11)	Endosulfan I	14.56	14.48	2578.3E6	1924.8E6	21.188	21.300
12)	4,4'-DDE	14.48	14.69	2666.9E6	2149.5E6	21.077	20.722
13)	Dieldrin	14.97	14.96	2693.8E6	2240.6E6	22.074	20.685
14)	Endrin	15.37	15.48	2536.2E6	1924.5E6	21.299	21.692
15)	4,4'-DDD	15.50	15.69	2169.1E6	1778.0E6	20.772	20.459
16)	Endosulfan II	15.75	15.85	2345.9E6	1867.2E6	20.111	20.224
17)	4,4'-DDT	15.96	16.19	2349.2E6	1839.4E6	20.074	21.107
18)	Endrin Aldehyde	16.41	16.38	1852.6E6	1414.0E6	20.309	19.575
19)	Endosulfan Sulfa	17.03	16.78	1846.4E6	1462.6E6	19.612	18.818
20)	Methoxychlor	16.70	17.17	1167.8E6	862.7E6	21.109	20.723
21)	Endrin Ketone	17.41	17.49	2165.3E6	1641.6E6	20.268	19.813

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23704.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 20:21 (#1); 27 Sep 2010 20:49 (#2)
Operator : ECL
Sample : WG343902-03 PEST ICAL 20 PPB
Misc : 1,1 STD40207
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:17:24 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:17:22 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23705.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 20:49 (#1); 27 Sep 2010 21:18 (#2)
Operator : ECL
Sample : WG343902-04 PEST ICAL 10 PPB
Misc : 1,1 STD40207
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:17:40 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:17:38 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

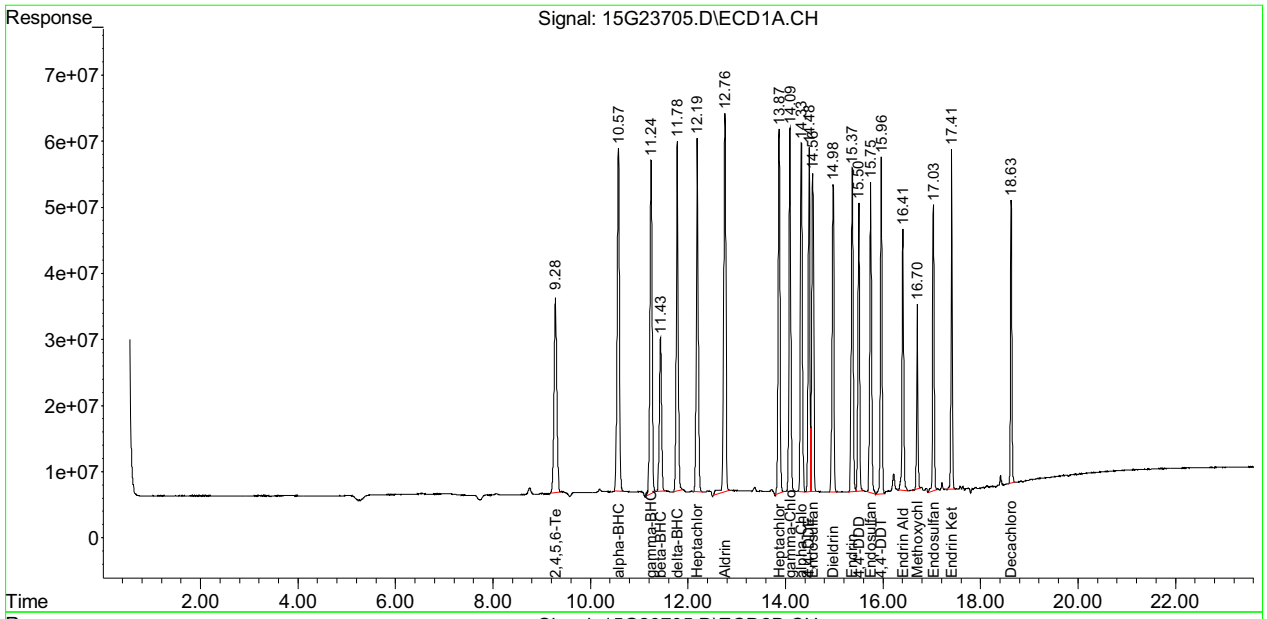
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.28	9.18	1161.3E6	962.6E6	10.318	9.952
	Spiked Amount	20.000	Range 30 - 132		Recovery =	51.59%	49.76%
22) S	Decachlorobiphen	18.63	18.90	811.0E6	603.9E6	10.221	10.375
	Spiked Amount	20.000	Range 36 - 144		Recovery =	51.11%	51.88%
	Target Compounds						
2)	alpha-BHC	10.57	10.54	1672.2E6	1406.5E6	10.062	9.701
3)	gamma-BHC	11.24	11.28	1594.7E6	1449.2E6	10.046	10.145
4)	beta-BHC	11.44	11.46	710.6E6	654.5E6	9.693	10.203
5)	Heptachlor	12.19	12.13	1575.7E6	1416.6E6	9.947	10.539
6)	delta-BHC	11.78	12.03	1526.7E6	1420.6E6	9.452	10.084
7)	Aldrin	12.76	12.74	1663.6E6	1266.4E6	10.852	10.410
8)	Heptachlor Epoxi	13.87	13.79	1480.7E6	1099.8E6	10.604	10.623
9)	gamma-Chlordane	14.09	14.13	1478.3E6	1159.0E6	10.284	10.179
10)	alpha-Chlordane	14.33	14.39	1364.7E6	1109.6E6	10.170	10.132
11)	Endosulfan I	14.56	14.48	1296.0E6	963.5E6	10.607	10.578
12)	4,4'-DDE	14.48	14.69	1298.3E6	1069.7E6	10.262	10.305
13)	Dieldrin	14.98	14.96	1217.4E6	1126.8E6	9.955	10.401
14)	Endrin	15.37	15.49	1262.3E6	951.8E6	10.560	10.601
15)	4,4'-DDD	15.50	15.69	1059.2E6	881.8E6	10.194	10.175
16)	Endosulfan II	15.75	15.85	1210.3E6	955.3E6	10.398	10.351
17)	4,4'-DDT	15.96	16.20	1188.3E6	915.0E6	10.153	10.414
18)	Endrin Aldehyde	16.41	16.38	954.1E6	725.8E6	10.446	10.190
19)	Endosulfan Sulfa	17.03	16.78	951.8E6	731.4E6	10.151	9.603
20)	Methoxychlor	16.70	17.17	590.7E6	452.0E6	10.597	10.703
21)	Endrin Ketone	17.41	17.49	1096.9E6	826.3E6	10.318	10.055

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23705.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 20:49 (#1); 27 Sep 2010 21:18 (#2)
Operator : ECL
Sample : WG343902-04 PEST ICAL 10 PPB
Misc : 1,1 STD40207
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:17:40 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:17:38 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23706.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 21:18 (#1); 27 Sep 2010 21:46 (#2)
Operator : ECL
Sample : WG343902-05 PEST ICAL 4 PPB
Misc : 1,1 STD40207
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:18:00 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:17:58 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.28	9.18	447.9E6	394.4E6	3.961	4.112
	Spiked Amount 20.000	Range 30 - 132		Recovery =		19.81%#	20.56%#
22) S	Decachlorobiphen	18.63	18.90	346.4E6	259.9E6	4.345	4.399
	Spiked Amount 20.000	Range 36 - 144		Recovery =		21.73%#	22.00%#
	Target Compounds						
2)	alpha-BHC	10.57	10.54	611.4E6	539.8E6	3.666	3.808
3)	gamma-BHC	11.24	11.28	583.0E6	558.6E6	3.674	3.946
4)	beta-BHC	11.44	11.46	282.5E6	270.4E6	3.939	4.222
5)	Heptachlor	12.19	12.13	617.6E6	570.6E6	3.979	4.224
6)	delta-BHC	11.78	12.03	562.2E6	546.2E6	3.575	3.900
7)	Aldrin	12.76	12.74	606.9E6	499.5E6	3.929	4.097
8)	Heptachlor Epoxi	13.87	13.79	585.7E6	452.5E6	4.156	4.331
9)	gamma-Chlordane	14.09	14.13	590.9E6	462.8E6	4.067	4.070
10)	alpha-Chlordane	14.33	14.39	544.8E6	450.8E6	4.033	4.116
11)	Endosulfan I	14.56	14.48	511.9E6	408.6E6	4.147	4.447
12)	4,4'-DDE	14.49	14.69	489.7E6	418.2E6	3.851	4.020
13)	Dieldrin	14.98	14.96	498.8E6	447.7E6	4.063	4.125
14)	Endrin	15.37	15.49	487.9E6	390.3E6	4.053	4.281
15)	4,4'-DDD	15.51	15.69	399.1E6	345.5E6	3.843	3.995
16)	Endosulfan II	15.75	15.85	485.2E6	389.4E6	4.141	4.217
17)	4,4'-DDT	15.97	16.19	450.8E6	359.7E6	3.842	4.051
18)	Endrin Aldehyde	16.41	16.38	393.7E6	316.4E6	4.315	4.450
19)	Endosulfan Sulfa	17.04	16.78	391.9E6	293.8E6	4.177	3.953
20)	Methoxychlor	16.71	17.17	239.3E6	193.0E6	4.250	4.472
21)	Endrin Ketone	17.41	17.49	450.8E6	333.1E6	4.221	4.088

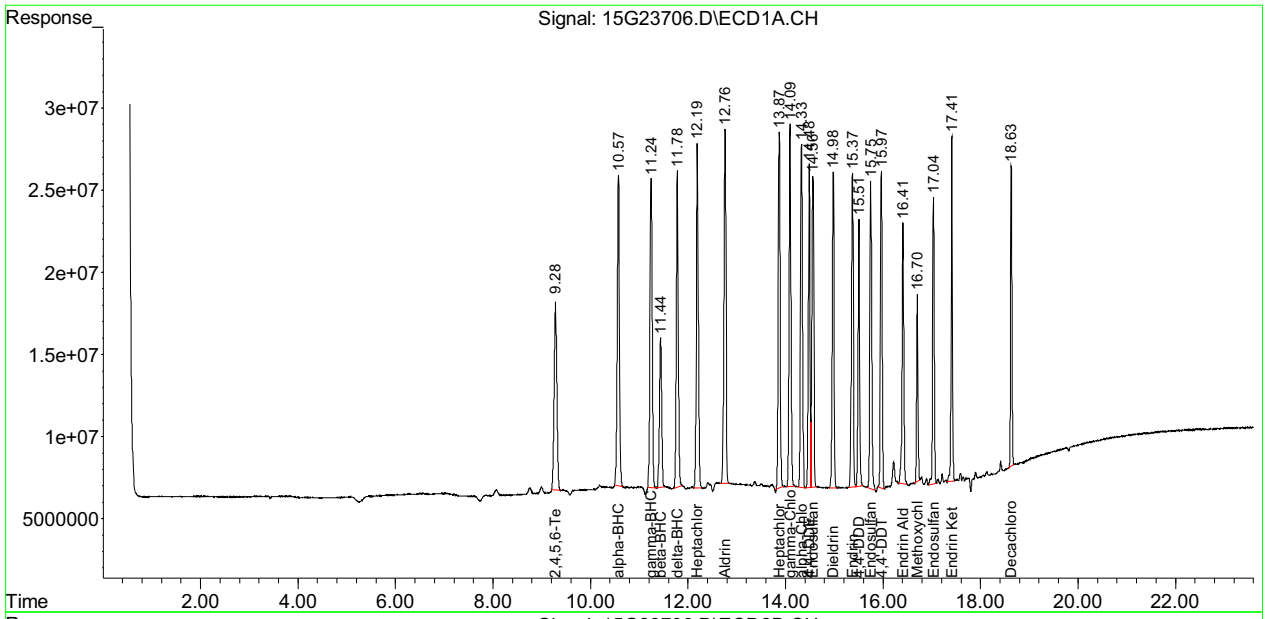
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

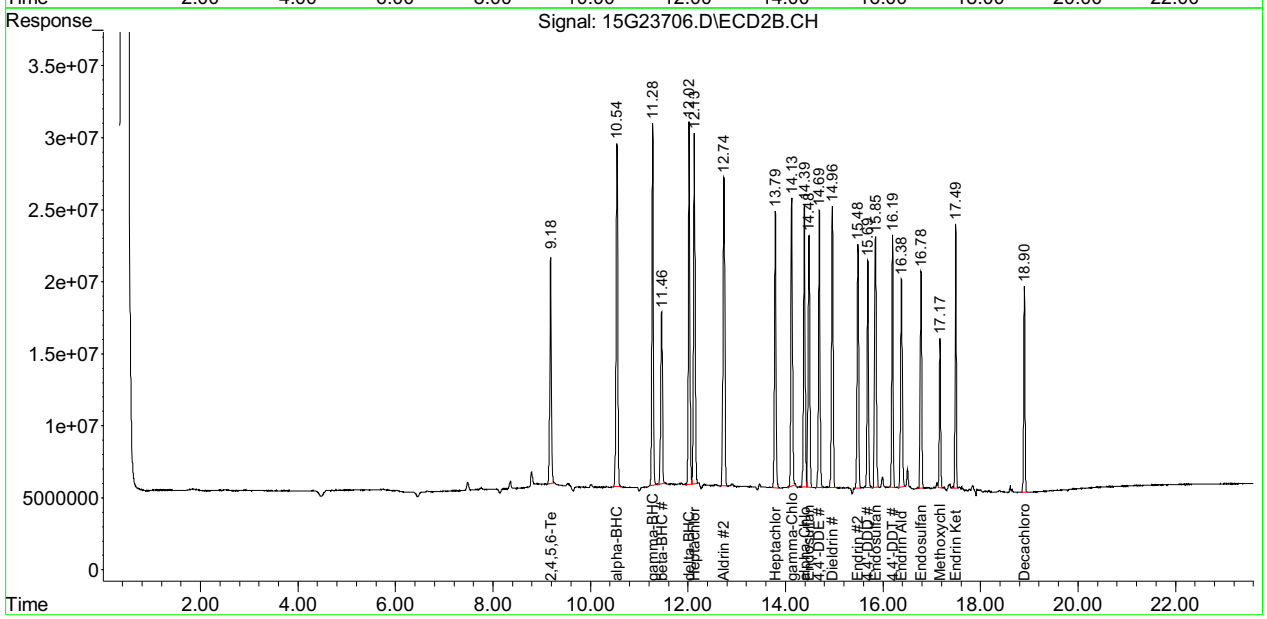
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23706.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 21:18 (#1); 27 Sep 2010 21:46 (#2)
Operator : ECL
Sample : WG343902-05 PEST ICAL 4 PPB
Misc : 1,1 STD40207
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:18:00 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:17:58 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23707.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 21:46 (#1); 27 Sep 2010 22:14 (#2)
Operator : ECL
Sample : WG343902-06 PEST ICAL 1 PPB
Misc : 1,1 STD40207
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:20:07 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:18:56 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

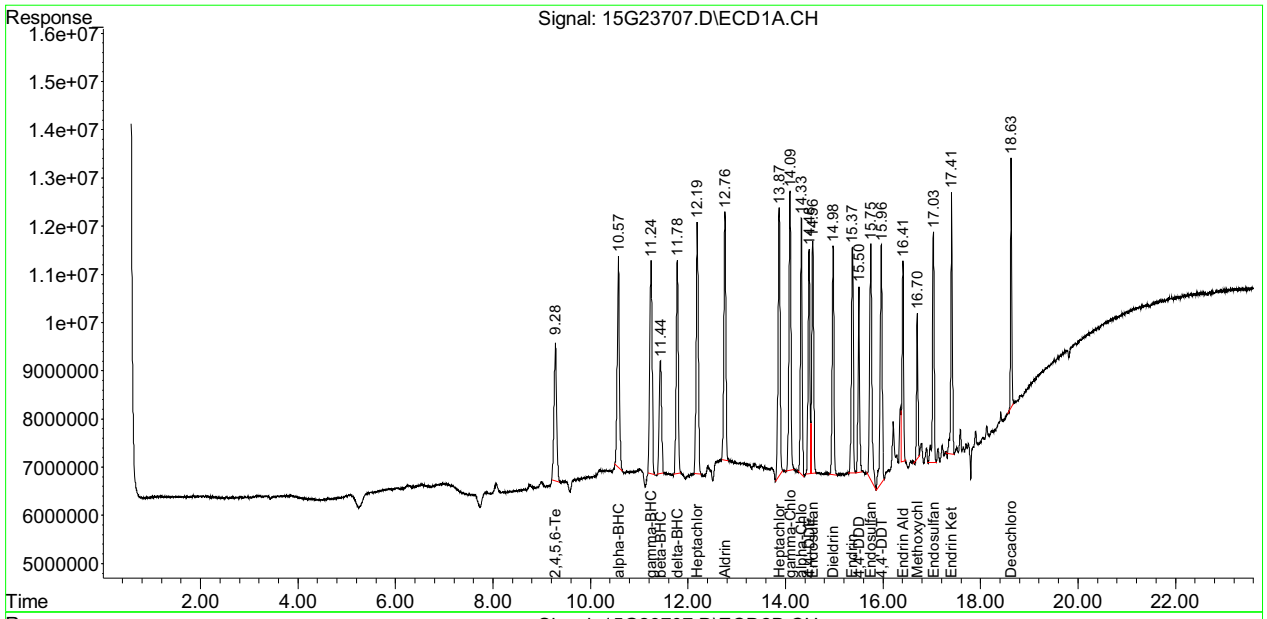
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.28	9.18	111.1E6	103.8E6	0.977	1.087
	Spiked Amount 20.000	Range 30 - 132		Recovery =		4.88%#	5.43%#
22) S	Decachlorobiphen	18.63	18.90	96397305	73528664	1.203	1.221
	Spiked Amount 20.000	Range 36 - 144		Recovery =		6.02%#	6.11%#
	Target Compounds						
2)	alpha-BHC	10.57	10.54	143.7E6	129.0E6	0.861	0.931
3)	gamma-BHC	11.24	11.27	139.1E6	139.8E6	0.892	0.990
4)	beta-BHC	11.44	11.46	71641717	70498702	1.026	1.095
5)	Heptachlor	12.19	12.13	156.3E6	149.6E6	1.031	1.097
6)	delta-BHC	11.78	12.02	131.4E6	133.0E6	0.858	0.952
7)	Aldrin	12.76	12.74	146.3E6	127.1E6	0.942	1.036
8)	Heptachlor Epoxi	13.87	13.79	155.4E6	111.8E6	1.095	1.061
9)	gamma-Chlordane	14.09	14.13	161.7E6	117.2E6	1.091	1.030
10)	alpha-Chlordane	14.33	14.39	137.8E6	119.7E6	1.014	1.089
11)	Endosulfan I	14.56	14.48	131.5E6	103.1E6	1.057	1.107
12)	4,4'-DDE	14.48	14.69	119.1E6	106.2E6	0.933	1.014
13)	Dieldrin	14.98	14.96	124.5E6	115.3E6	1.003	1.057
14)	Endrin	15.37	15.48	121.5E6	96794745	1.001	1.049
15)	4,4'-DDD	15.50	15.69	95781392	88232424	0.922	1.018
16)	Endosulfan II	15.75	15.85	142.7E6	103.4E6	1.201	1.118
17)	4,4'-DDT	15.96	16.19	132.5E6	91287819	1.120	1.014
18)	Endrin Aldehyde	16.41	16.38	97215007	86240097	1.026m	1.170m
19)	Endosulfan Sulfa	17.03	16.78	114.3E6	76367184	1.196	1.059
20)	Methoxychlor	16.70	17.17	60580494	55282548	1.073	1.241
21)	Endrin Ketone	17.41	17.49	124.3E6	86651814	1.141	1.074

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23707.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 21:46 (#1); 27 Sep 2010 22:14 (#2)
Operator : ECL
Sample : WG343902-06 PEST ICAL 1 PPB
Misc : 1,1 STD40207
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:20:07 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:18:56 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

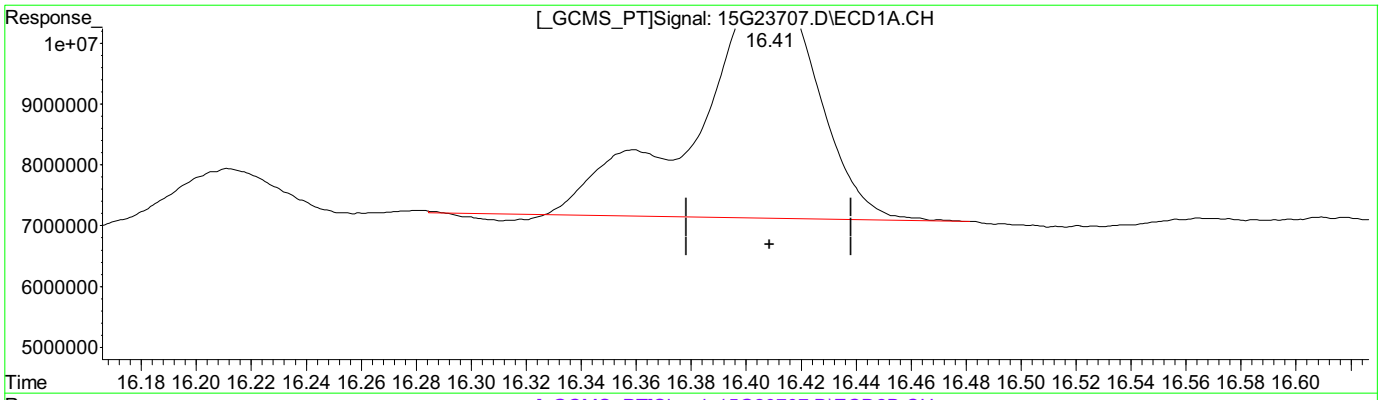


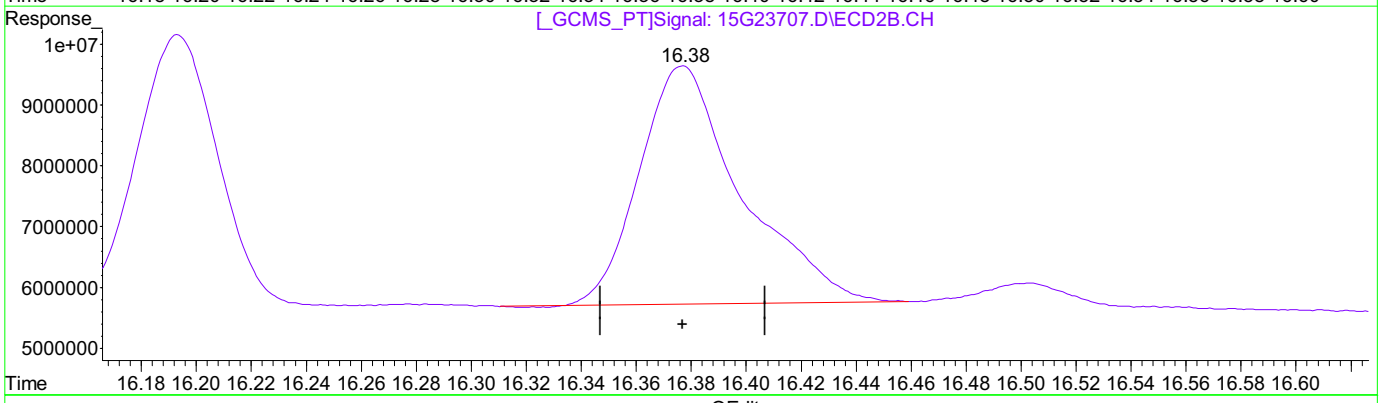
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\092710\
Data File : 15G23707.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 21:46 (#1); 27 Sep 2010 22:14 (#2)
Operator : ECL
Sample : WG343902-06 PEST ICAL 1 PPB
Misc : 1,1 STD40207
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:18:58 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:18:56 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





QEdit

(18) Endrin Aldehyde

16.41min 1.256UG/L

response 119025064

(18) Endrin Aldehyde #2

16.38min 1.371UG/L

response 101021676

(+) = Expected Retention Time

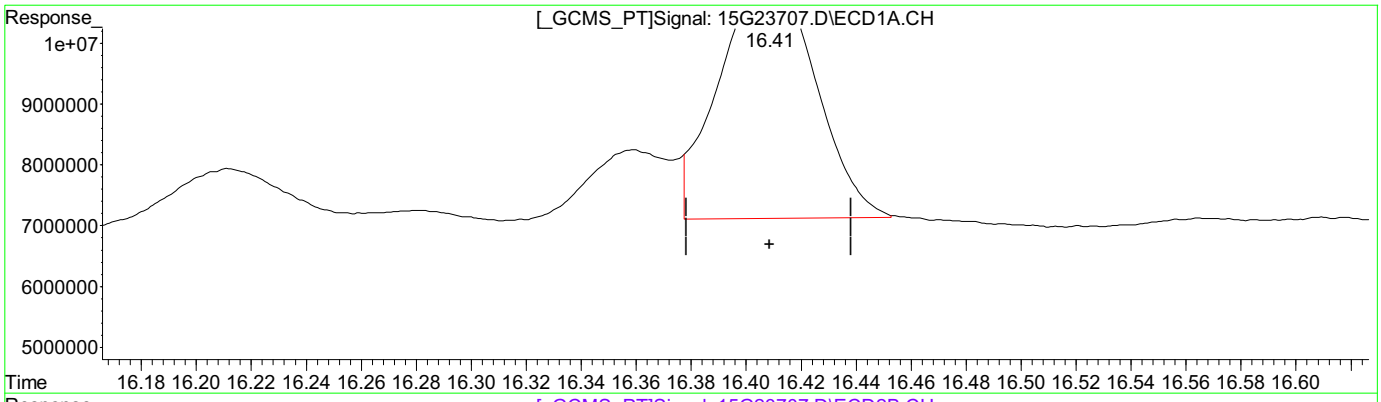
8081.M Tue Sep 28 12:19:50 2010 Page: 1

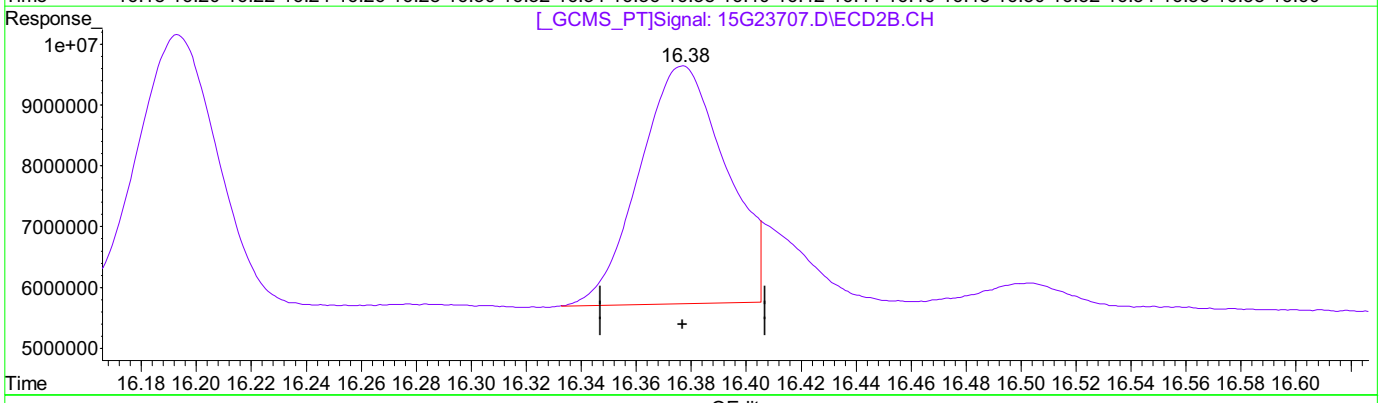
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\092710\
Data File : 15G23707.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 21:46 (#1); 27 Sep 2010 22:14 (#2)
Operator : ECL
Sample : WG343902-06 PEST ICAL 1 PPB
Misc : 1,1 STD40207
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:18:58 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:18:56 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





QEdit

(18) Endrin Aldehyde

16.41min 1.026UG/L mint

response 97215007

(18) Endrin Aldehyde #2

16.38min 1.170UG/L mint

response 86240097

(+) = Expected Retention Time
8081.M Tue Sep 28 12:20:11 2010

Analyst: 09/28/2010 14:43 Supervisor: 10/01/2010 14:01

Page: 1

#2 - Data system splits the peak incorrectly or integrates a false peak as a rider peak

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23708.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 22:14 (#1); 27 Sep 2010 22:43 (#2)
Operator : ECL
Sample : WG343902-07 PEST ALT 20 PPB
Misc : 1,1 STD38730
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:21:13 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:20:31 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

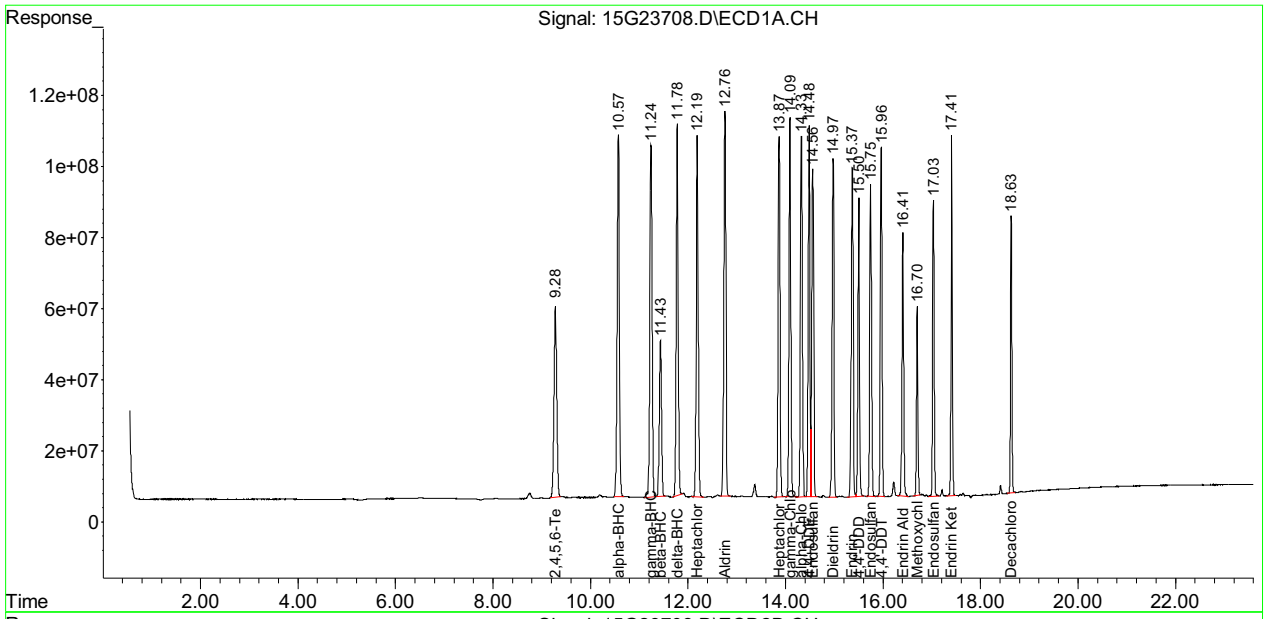
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.28	9.18	2115.1E6	1760.0E6	18.597	18.440
	Spiked Amount 20.000	Range 30 - 132		Recovery =		92.99%	92.20%
22) S	Decachlorobiphen	18.63	18.90	1452.1E6	1080.5E6	18.121	17.940
	Spiked Amount 20.000	Range 36 - 144		Recovery =		90.60%	89.70%
	Target Compounds						
2)	alpha-BHC	10.57	10.54	3314.0E6	2754.1E6	19.855	19.873
3)	gamma-BHC	11.24	11.28	3094.7E6	2776.1E6	19.850	19.658
4)	beta-BHC	11.43	11.46	1362.6E6	1257.6E6	19.511	19.529
5)	Heptachlor	12.19	12.13	3011.2E6	2693.2E6	19.872	19.745
6)	delta-BHC	11.78	12.02	3013.6E6	2770.1E6	19.693	19.820
7)	Aldrin	12.76	12.74	3054.4E6	2402.4E6	19.671	19.585
8)	Heptachlor Epoxi	13.87	13.79	2734.8E6	2087.7E6	19.266	19.819
9)	gamma-Chlordane	14.09	14.13	2812.3E6	2197.2E6	18.972	19.319
10)	alpha-Chlordane	14.33	14.39	2659.1E6	2098.3E6	19.568	19.096
11)	Endosulfan I	14.56	14.48	2480.2E6	1843.7E6	19.943	19.796
12)	4,4'-DDE	14.48	14.69	2602.7E6	2112.4E6	20.379	20.178
13)	Dieldrin	14.98	14.96	2475.9E6	2098.6E6	19.943	19.234
14)	Endrin	15.37	15.48	2402.7E6	1818.1E6	19.795	19.708
15)	4,4'-DDD	15.50	15.69	2058.3E6	1690.7E6	19.820	19.508
16)	Endosulfan II	15.75	15.85	2218.5E6	1769.7E6	18.674	19.133
17)	4,4'-DDT	15.96	16.19	2255.1E6	1766.9E6	19.071	19.633
18)	Endrin Aldehyde	16.41	16.38	1751.1E6	1565.9E6	19.211	21.985
19)	Endosulfan Sulfa	17.03	16.78	1804.0E6	1400.5E6	18.868	19.430
20)	Methoxychlor	16.70	17.17	1124.9E6	849.5E6	19.929	19.065
21)	Endrin Ketone	17.41	17.49	2168.6E6	1628.4E6	19.903	20.187

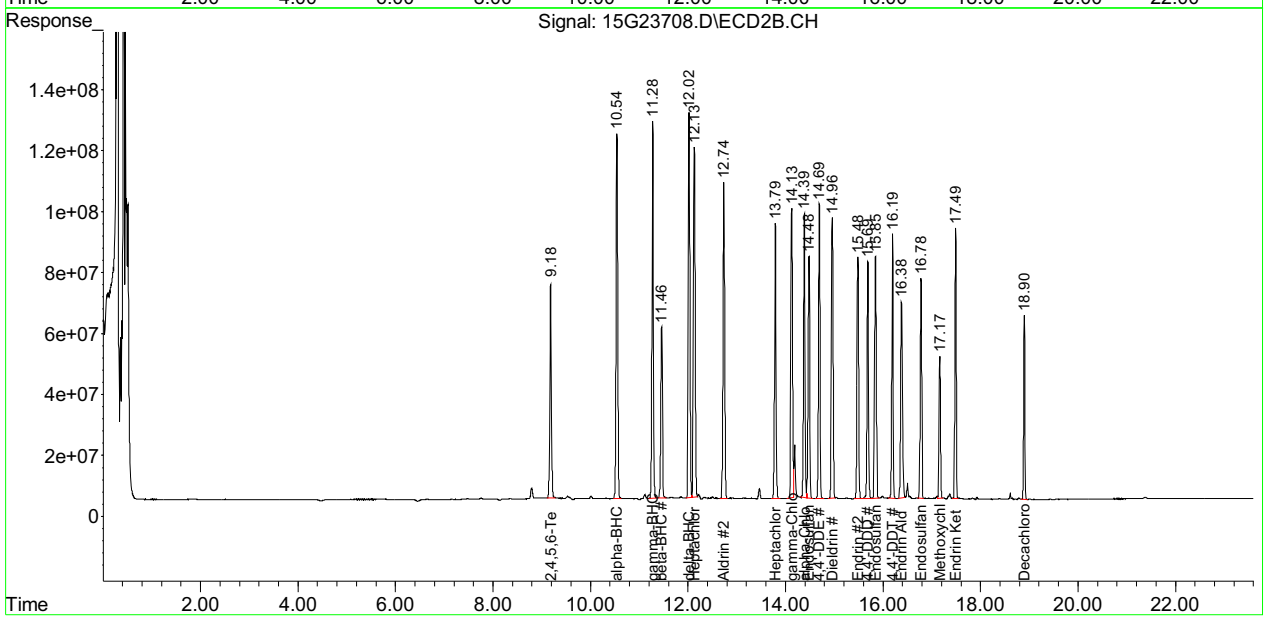
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23708.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 22:14 (#1); 27 Sep 2010 22:43 (#2)
Operator : ECL
Sample : WG343902-07 PEST ALT 20 PPB
Misc : 1,1 STD38730
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:21:13 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:20:31 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23696.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 16:34 (#1); 27 Sep 2010 17:02 (#2)
Operator : ECL
Sample : WG343903-01 TOX ICAL 2000 PPB
Misc : 1,1 STD40827
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Sep 28 10:42:12 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Tue Sep 28 10:40:55 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	Target Compounds						
1)	L1 Toxaphene-1	15.29	14.93	4675.3E6	1731.6E6	2057.738	1813.515
2)	L1 Toxaphene-2	15.94	15.98	3427.3E6	5887.3E6	1955.600	1844.529
3)	L1 Toxaphene-3	16.90	16.77	5834.6E6	1779.9E6	1987.564	1849.556
4)	L1 Toxaphene-4	17.13	17.11	2687.6E6	4091.5E6	2023.666	1876.894
5)	L1 Toxaphene-5	17.59	17.62	2769.1E6	1658.1E6	2036.688	1862.576
	Sum Toxaphene-1			19394.0E6	15148.4E6	10061.257	9247.069
Average	Toxaphene-1					2012.251	1849.414

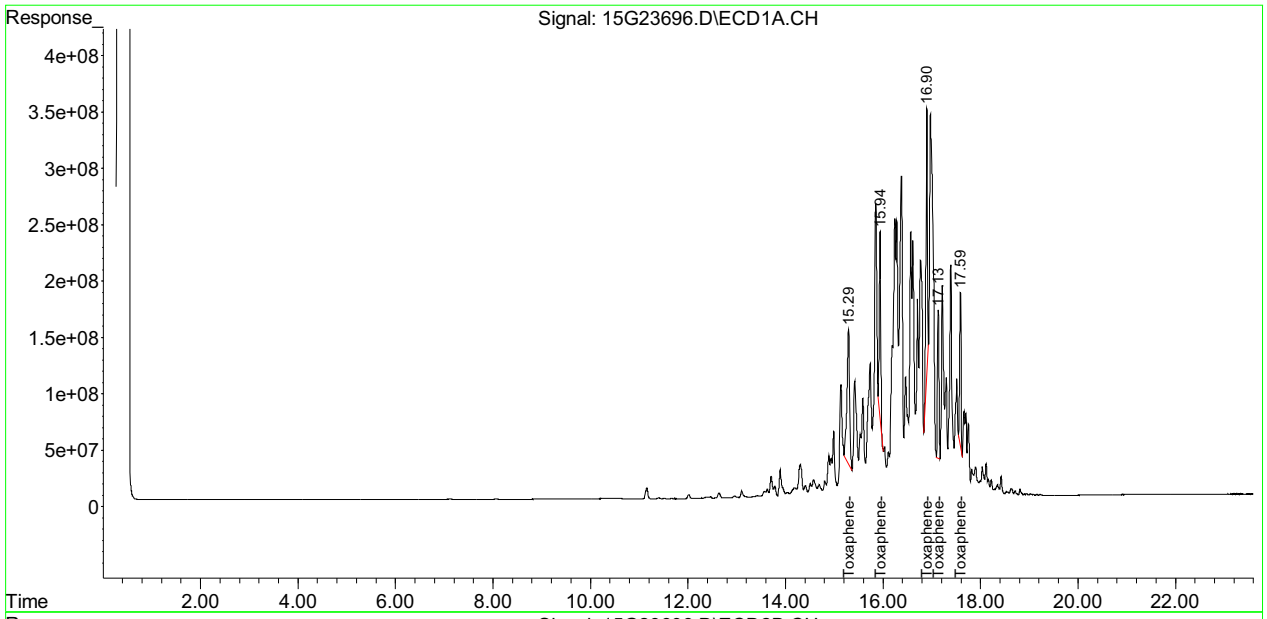
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

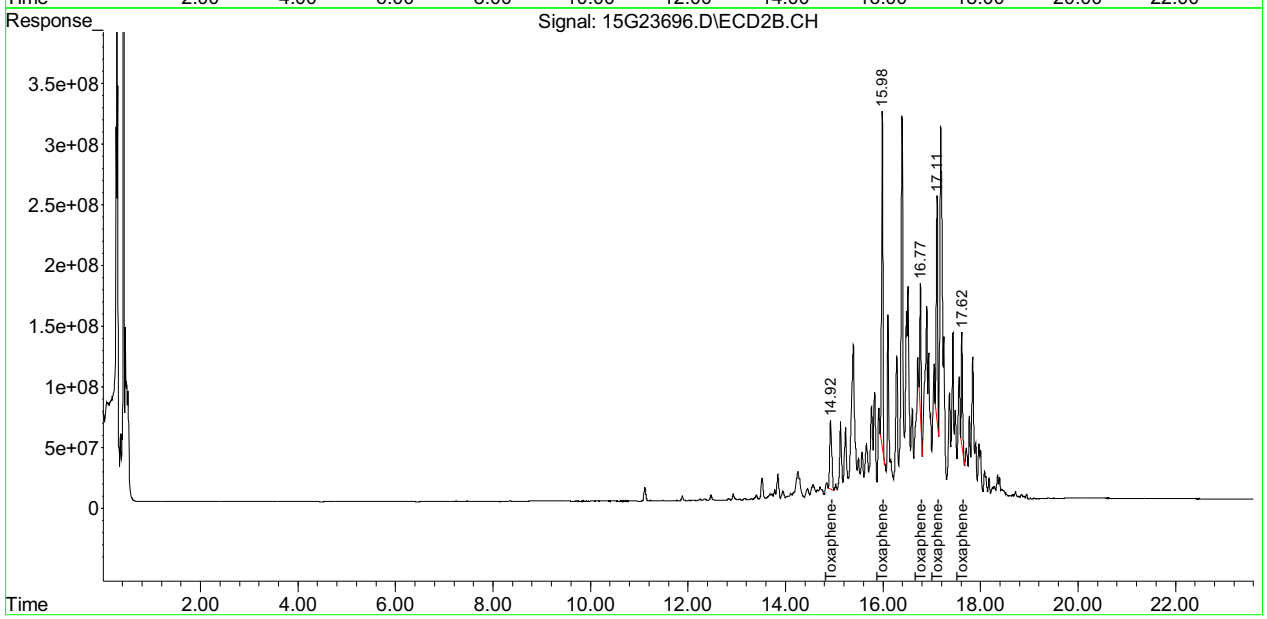
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23696.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 16:34 (#1); 27 Sep 2010 17:02 (#2)
Operator : ECL
Sample : WG343903-01 TOX ICAL 2000 PPB
Misc : 1,1 STD40827
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Sep 28 10:42:12 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Tue Sep 28 10:40:55 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23697.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 17:02 (#1); 27 Sep 2010 17:30 (#2)
Operator : ECL
Sample : WG343903-02 TOX ICAL 1000 PPB
Misc : 1,1 STD40827
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Sep 28 10:42:16 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Tue Sep 28 10:40:55 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
Target Compounds						
1) L1 Toxaphene-1	15.29	14.92	2330.9E6	933.8E6	1025.894	977.986
2) L1 Toxaphene-2	15.94	15.98	1786.5E6	3188.8E6	1019.382	999.083
3) L1 Toxaphene-3	16.90	16.77	2863.8E6	969.0E6	975.550	1006.933
4) L1 Toxaphene-4	17.13	17.11	1346.6E6	2027.7E6	1013.981	930.176
5) L1 Toxaphene-5	17.59	17.62	1377.6E6	880.7E6	1013.246	989.312
Sum Toxaphene-1			9705.5E6	8000.1E6	5048.053	4903.489
Average Toxaphene-1					1009.611	980.698

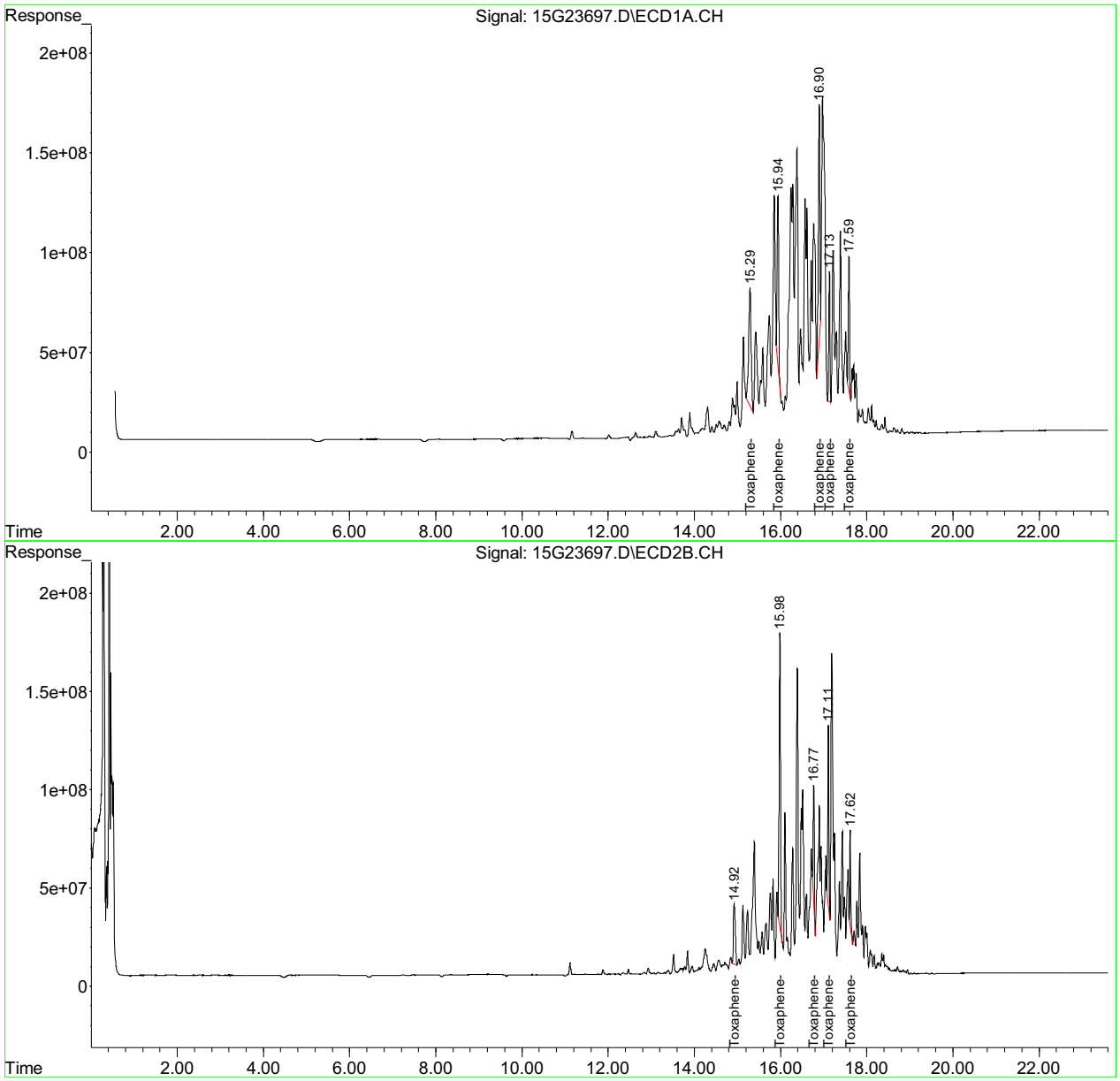
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23697.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 17:02 (#1); 27 Sep 2010 17:30 (#2)
Operator : ECL
Sample : WG343903-02 TOX ICAL 1000 PPB
Misc : 1,1 STD40827
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Sep 28 10:42:16 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Tue Sep 28 10:40:55 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23698.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 17:30 (#1); 27 Sep 2010 17:59 (#2)
Operator : ECL
Sample : WG343903-03 TOX ICAL 500 PPB
Misc : 1,1 STD40827
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Sep 28 10:39:25 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Tue Sep 28 10:39:23 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	Target Compounds						
1)	L1 Toxaphene-1	15.29	14.93	1166.3E6	481.4E6	509.711	484.687
2)	L1 Toxaphene-2	15.94	15.98	885.8E6	1629.0E6	505.723	511.929
3)	L1 Toxaphene-3	16.90	16.77	1509.6E6	497.7E6	527.095	515.668
4)	L1 Toxaphene-4	17.13	17.11	678.2E6	1150.1E6	515.952	546.528
5)	L1 Toxaphene-5	17.59	17.62	697.3E6	449.3E6	532.715	470.123
	Sum Toxaphene-1			4937.2E6	4207.5E6	2591.196	2528.935
Average	Toxaphene-1					518.239	505.787

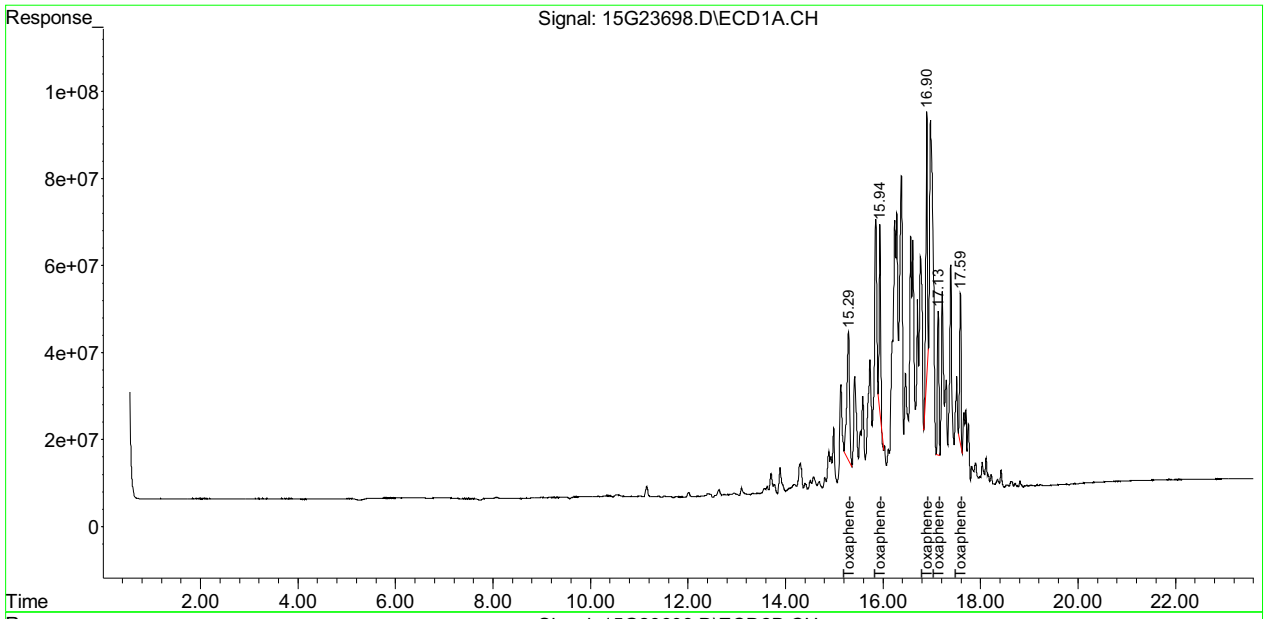
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

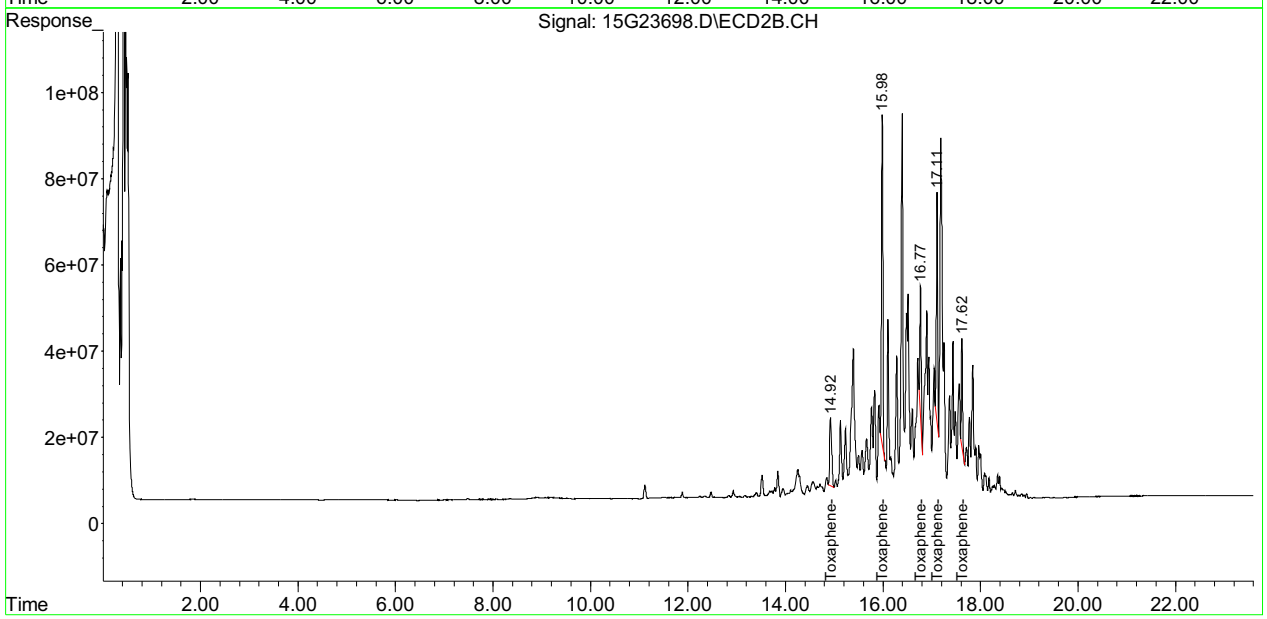
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23698.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 17:30 (#1); 27 Sep 2010 17:59 (#2)
Operator : ECL
Sample : WG343903-03 TOX ICAL 500 PPB
Misc : 1,1 STD40827
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Sep 28 10:39:25 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Tue Sep 28 10:39:23 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23699.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 17:59 (#1); 27 Sep 2010 18:27 (#2)
Operator : ECL
Sample : WG343903-04 TOX ICAL 200 PPB
Misc : 1,1 STD40827
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Sep 28 10:40:43 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Tue Sep 28 10:40:42 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	Target Compounds						
1)	L1 Toxaphene-1	15.29	14.93	432.0E6	195.9E6	190.243	199.925
2)	L1 Toxaphene-2	15.94	15.98	354.4E6	643.9E6	201.119	201.960
3)	L1 Toxaphene-3	16.90	16.77	573.4E6	193.0E6	199.960	200.024
4)	L1 Toxaphene-4	17.13	17.11	256.4E6	438.9E6	195.244	208.825
5)	L1 Toxaphene-5	17.59	17.62	260.2E6	179.4E6	196.520	191.384
	Sum Toxaphene-1			1876.5E6	1651.0E6	983.086	1002.118
Average	Toxaphene-1					196.617	200.424

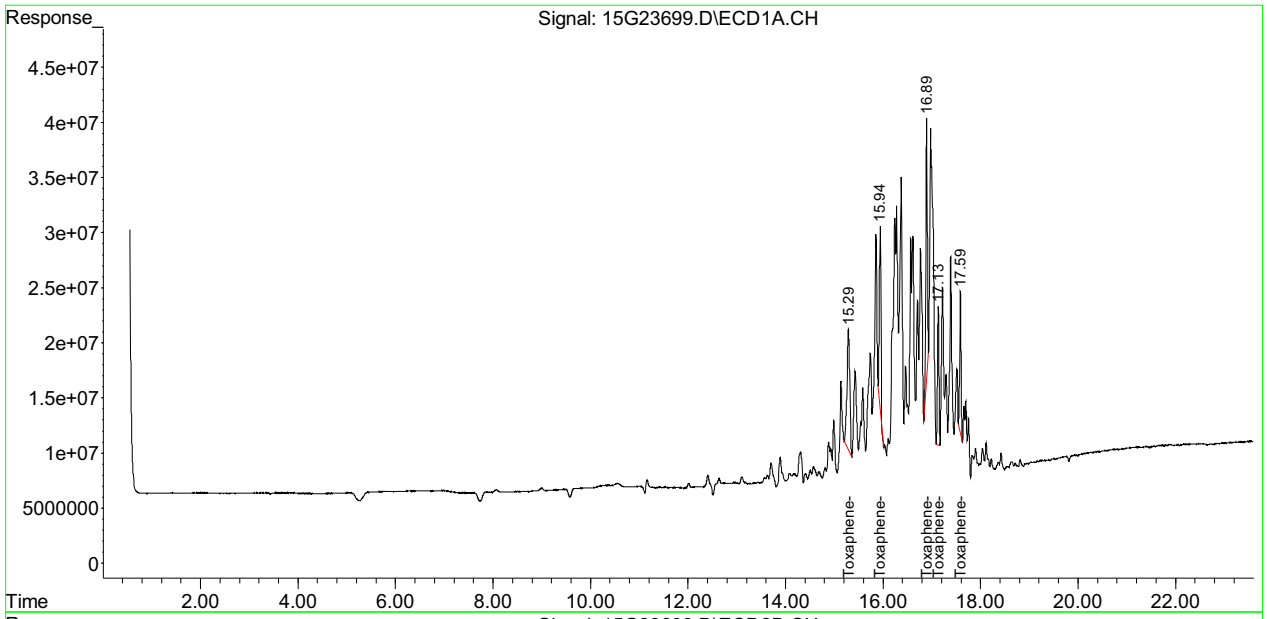
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

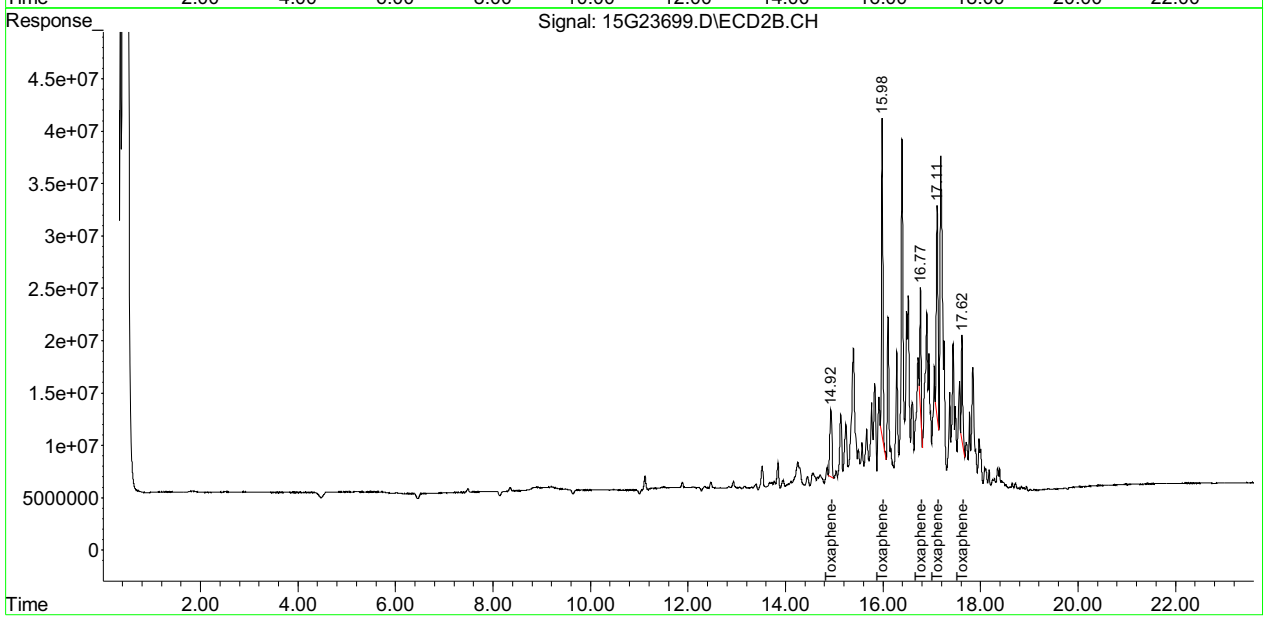
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23699.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 17:59 (#1); 27 Sep 2010 18:27 (#2)
Operator : ECL
Sample : WG343903-04 TOX ICAL 200 PPB
Misc : 1,1 STD40827
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Sep 28 10:40:43 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Tue Sep 28 10:40:42 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23700.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 18:27 (#1); 27 Sep 2010 18:55 (#2)
Operator : ECL
Sample : WG343903-05 TOX ICAL 100 PPB
Misc : 1,1 STD40827
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Sep 28 10:40:57 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Tue Sep 28 10:40:55 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
Target Compounds						
1) L1 Toxaphene-1	15.29	14.92	219.9E6	103.2E6	96.787	108.132
2) L1 Toxaphene-2	15.94	15.98	171.9E6	334.9E6	98.080	104.922
3) L1 Toxaphene-3	16.90	16.77	301.1E6	99244709	102.556	103.129
4) L1 Toxaphene-4	17.13	17.11	131.2E6	233.2E6	98.755	106.966
5) L1 Toxaphene-5	17.59	17.62	134.0E6	94559756	98.563	106.223
Sum Toxaphene-1			958.0E6	865.1E6	494.742	529.373
Average Toxaphene-1					98.948	105.875

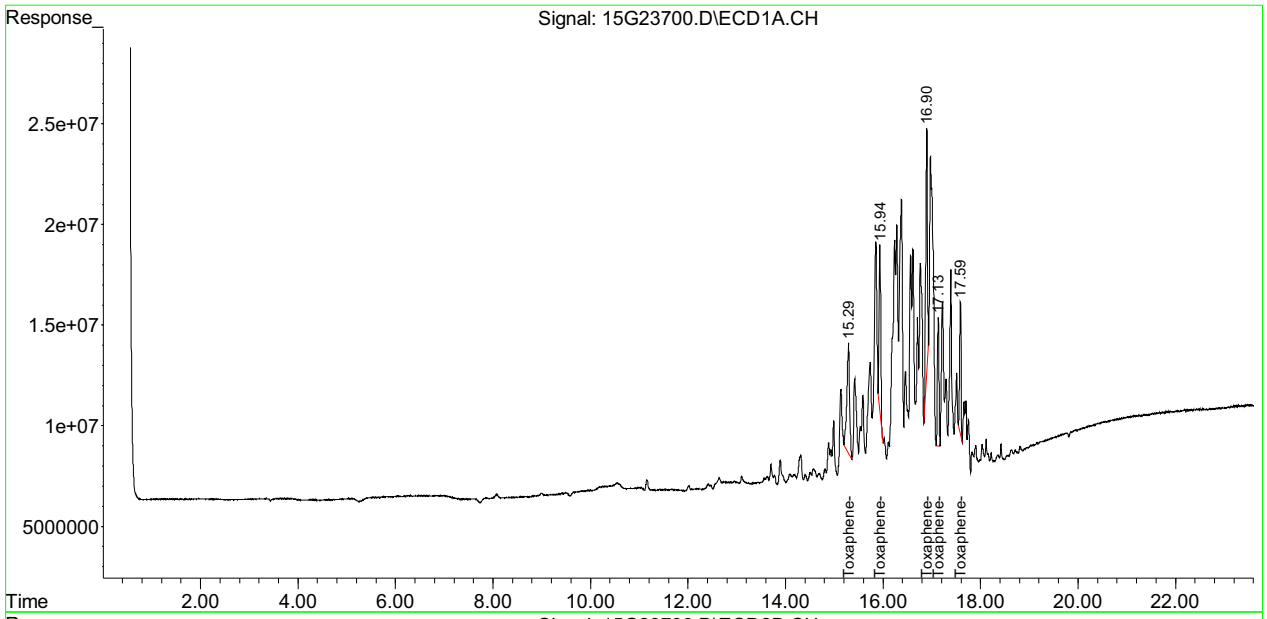
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

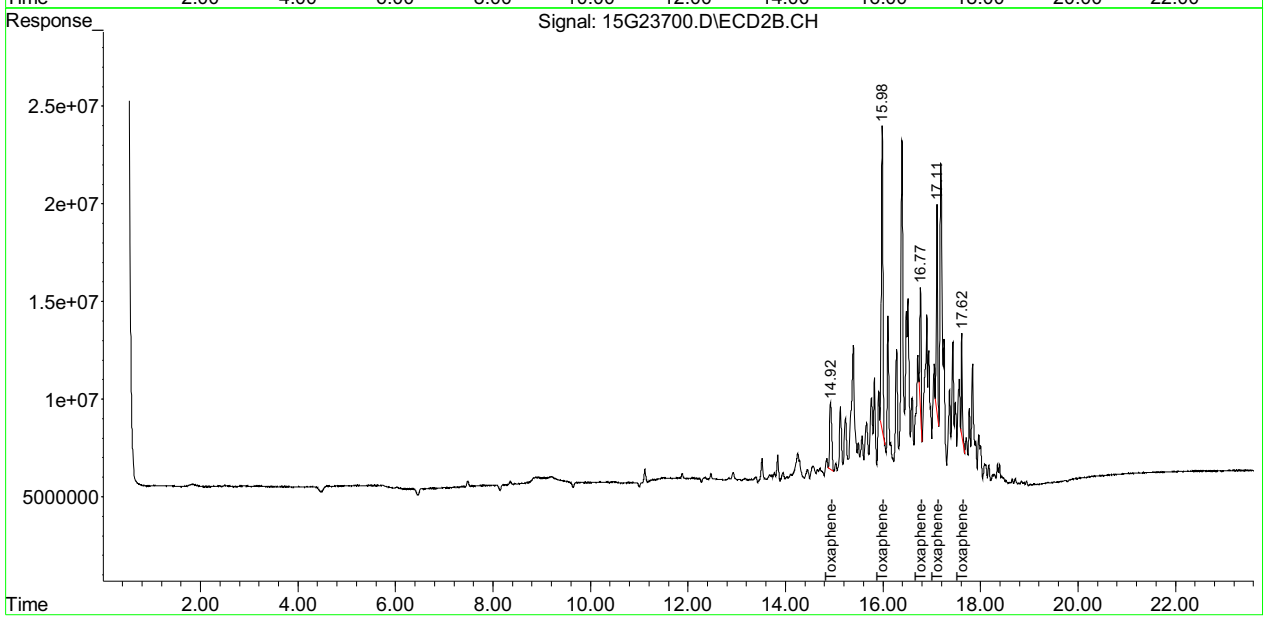
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23700.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 18:27 (#1); 27 Sep 2010 18:55 (#2)
Operator : ECL
Sample : WG343903-05 TOX ICAL 100 PPB
Misc : 1,1 STD40827
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Sep 28 10:40:57 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Tue Sep 28 10:40:55 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23701.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 18:55 (#1); 27 Sep 2010 19:24 (#2)
Operator : ECL
Sample : WG343903-06 TOX ALT 500 PPB
Misc : 1,1 STD40828
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Sep 28 10:41:47 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Tue Sep 28 10:40:55 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
Target Compounds						
1) L1 Toxaphene-1	15.26f	14.93	640.5E6	459.1E6	281.914	480.783 #
2) L1 Toxaphene-2	15.93	15.98	969.4E6	1540.4E6	553.128	482.611
3) L1 Toxaphene-3	16.90	16.77	1438.4E6	204.0E6	489.992	211.953 #
4) L1 Toxaphene-4	17.13	17.11	593.0E6	1054.2E6	446.524	483.581
5) L1 Toxaphene-5	17.59	17.62	651.6E6	510.4E6	479.246	573.364
Sum Toxaphene-1			4292.9E6	3768.0E6	2250.804	2232.292
Average Toxaphene-1					450.161	446.458

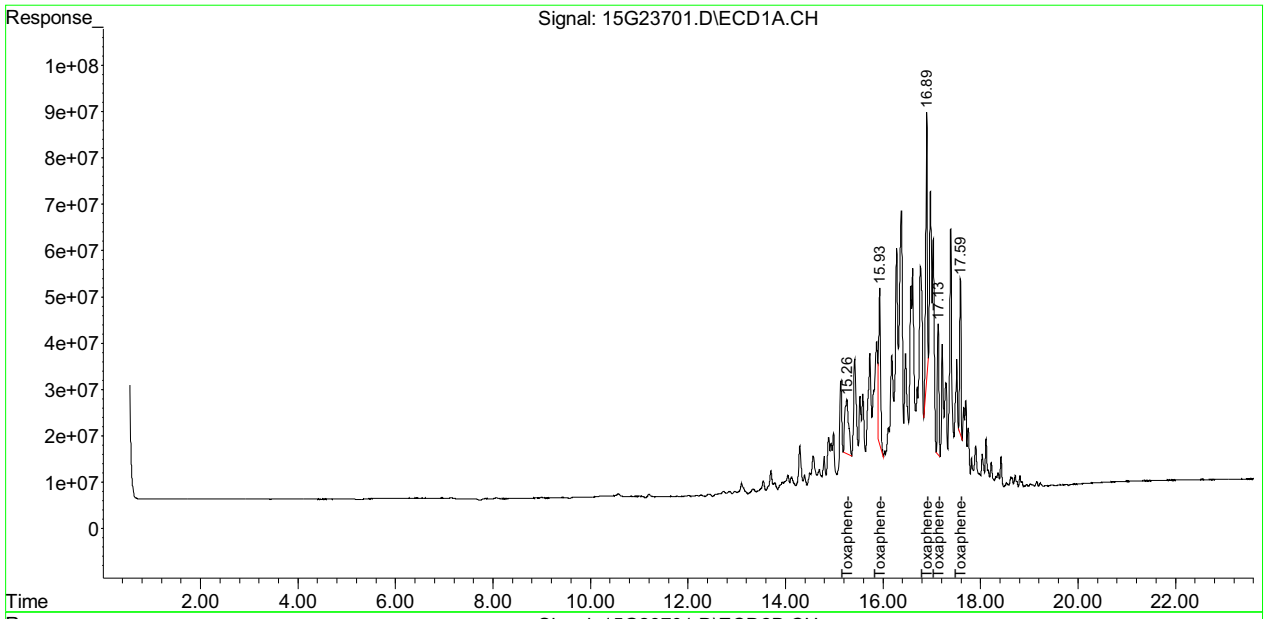
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

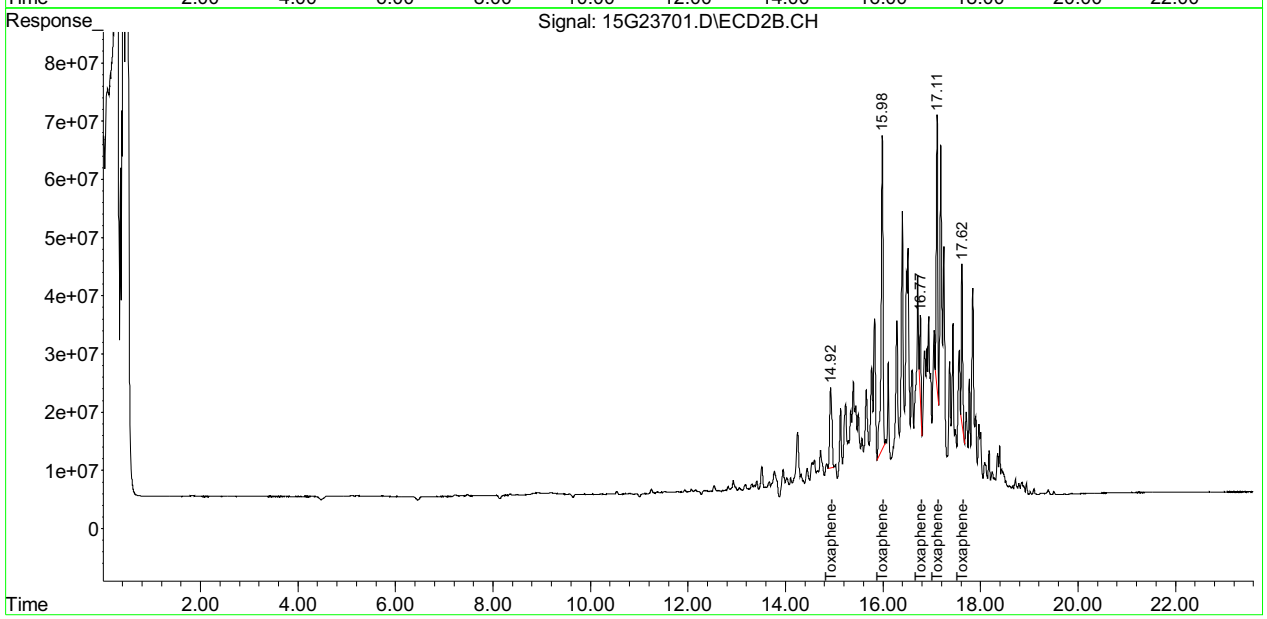
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23701.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 18:55 (#1); 27 Sep 2010 19:24 (#2)
Operator : ECL
Sample : WG343903-06 TOX ALT 500 PPB
Misc : 1,1 STD40828
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Sep 28 10:41:47 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Tue Sep 28 10:40:55 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Data Path : C:\MSDChem\1\DATA\120810\
Data File : 15G24327.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Dec 2010 00:36 (#1); 09 Dec 2010 1:05 (#2)
Operator : ECL
Sample : WG350839-05 PEST CCV 20 PPB
Misc : 1,1 STD40207
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 09 11:41:21 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

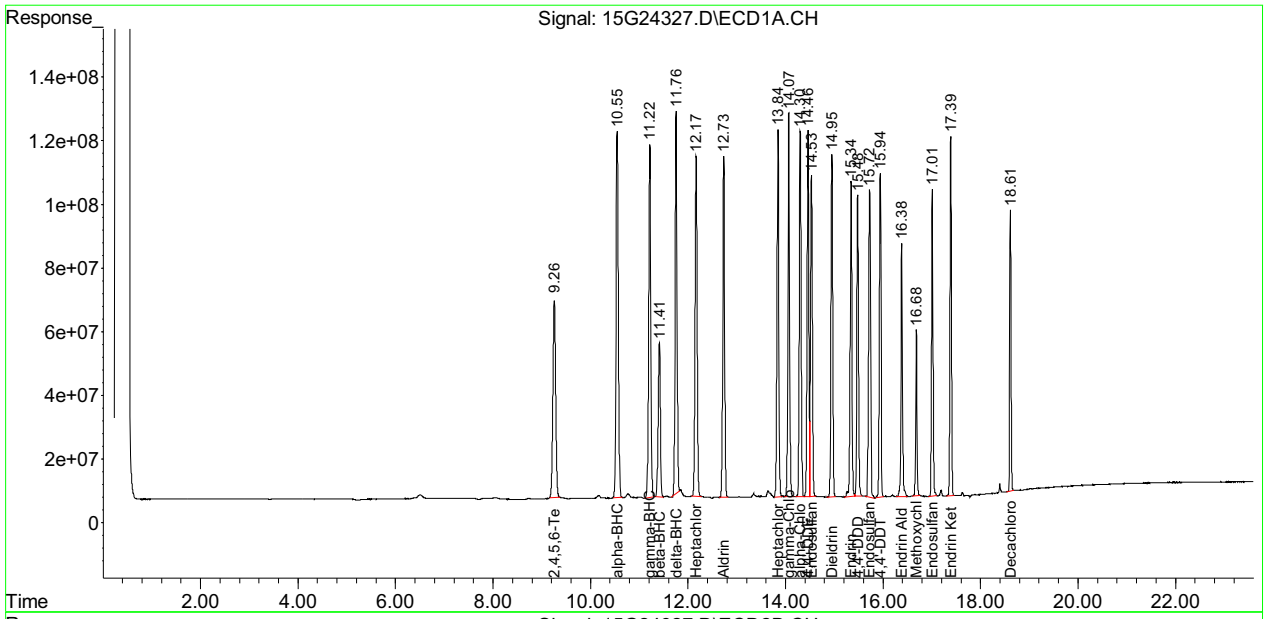
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.26	9.17	2429.8E6	1848.4E6	21.365	19.366
	Spiked Amount 20.000	Range 30 - 132		Recovery =		106.82%	96.83%
22) S	Decachlorobiphen	18.61	18.89	1632.2E6	1167.5E6	20.368	19.384
	Spiked Amount 20.000	Range 36 - 144		Recovery =		101.84%	96.92%
	Target Compounds						
2)	alpha-BHC	10.55	10.53	3724.6E6	2772.4E6	22.315	20.005
3)	gamma-BHC	11.22	11.26	3457.3E6	2659.2E6	22.176	18.830
4)	beta-BHC	11.41	11.44	1497.2E6	1139.5E6	21.437	17.694
5)	Heptachlor	12.17	12.12	3178.0E6	2534.0E6	20.973	18.578
6)	delta-BHC	11.76	12.01	3451.2E6	2749.5E6	22.553	19.673
7)	Aldrin	12.73	12.72	2989.1E6	2482.4E6	19.250	20.237
8)	Heptachlor Epoxi	13.84	13.78	3126.7E6	2047.1E6	22.027	19.433
9)	gamma-Chlordane	14.07	14.11	3180.8E6	2356.5E6	21.458	20.719
10)	alpha-Chlordane	14.30	14.37	2955.8E6	2238.5E6	21.751	20.372
11)	Endosulfan I	14.53	14.46	2717.3E6	1929.5E6	21.850	20.717
12)	4,4'-DDE	14.46	14.68	2837.8E6	2147.4E6	22.220	20.513
13)	Dieldrin	14.95	14.94	2788.8E6	2274.1E6	22.463	20.843
14)	Endrin	15.34	15.47	2642.3E6	1834.8E6	21.769	19.889
15)	4,4'-DDD	15.48	15.67	2335.2E6	1852.5E6	22.488	21.375
16)	Endosulfan II	15.72	15.83	2471.3E6	1918.6E6	20.802	20.743
17)	4,4'-DDT	15.94	16.18	2360.4E6	1768.4E6	19.962	19.650
18)	Endrin Aldehyde	16.38	16.36	1939.4E6	1379.6E6	21.277	19.369
19)	Endosulfan Sulfa	17.01	16.77	2119.6E6	1683.9E6	22.169	23.362
20)	Methoxychlor	16.68	17.16	1117.5E6	829.1E6	19.798	18.608
21)	Endrin Ketone	17.39	17.48	2392.6E6	1810.4E6	21.959	22.443

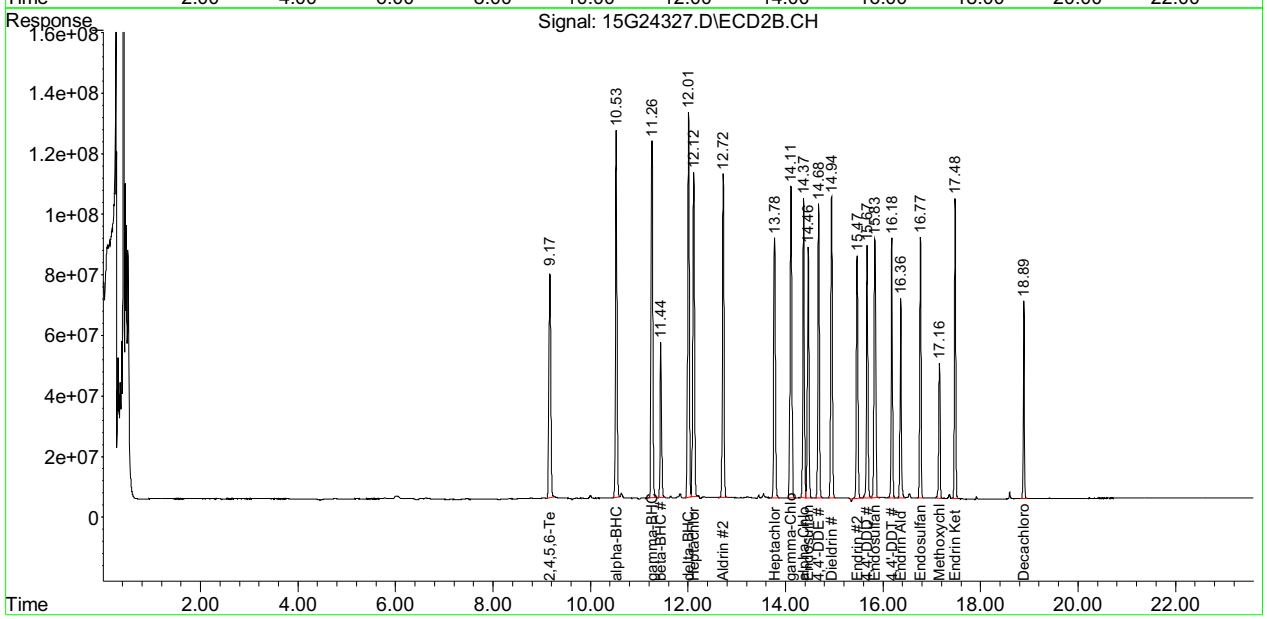
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDChem\1\DATA\120810\
Data File : 15G24327.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Dec 2010 00:36 (#1); 09 Dec 2010 1:05 (#2)
Operator : ECL
Sample : WG350839-05 PEST CCV 20 PPB
Misc : 1,1 STD40207
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 09 11:41:21 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\120810\
Data File : 15G24328.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Dec 2010 1:05 (#1); 09 Dec 2010 1:33 (#2)
Operator : ECL
Sample : WG350840-03 TOX CCV 500 PPB
Misc : 1,1 STD40827
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Dec 09 11:41:44 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Thu Dec 09 11:39:15 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
Target Compounds						
1) L1 Toxaphene-1	15.26	14.91	1235.8E6	524.1E6	543.912	548.944
2) L1 Toxaphene-2	15.91	15.97	947.7E6	1609.5E6	540.768	504.258
3) L1 Toxaphene-3	16.87	16.75	1590.5E6	516.4E6	541.793	536.569
4) L1 Toxaphene-4	17.11	17.09	735.1E6	909.2E6	553.494	417.084
5) L1 Toxaphene-5	17.57	17.60	695.2E6	452.3E6	511.359	508.069
Sum Toxaphene-1			5204.3E6	4011.5E6	2691.326	2514.924
Average Toxaphene-1					538.265	502.985

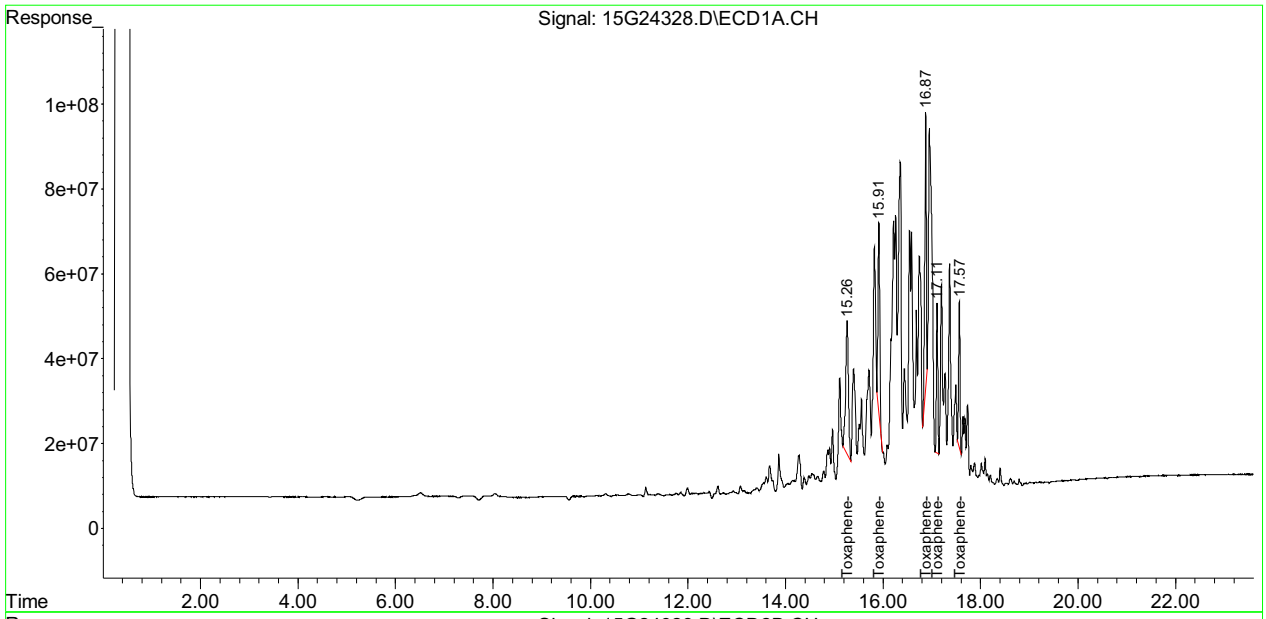
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

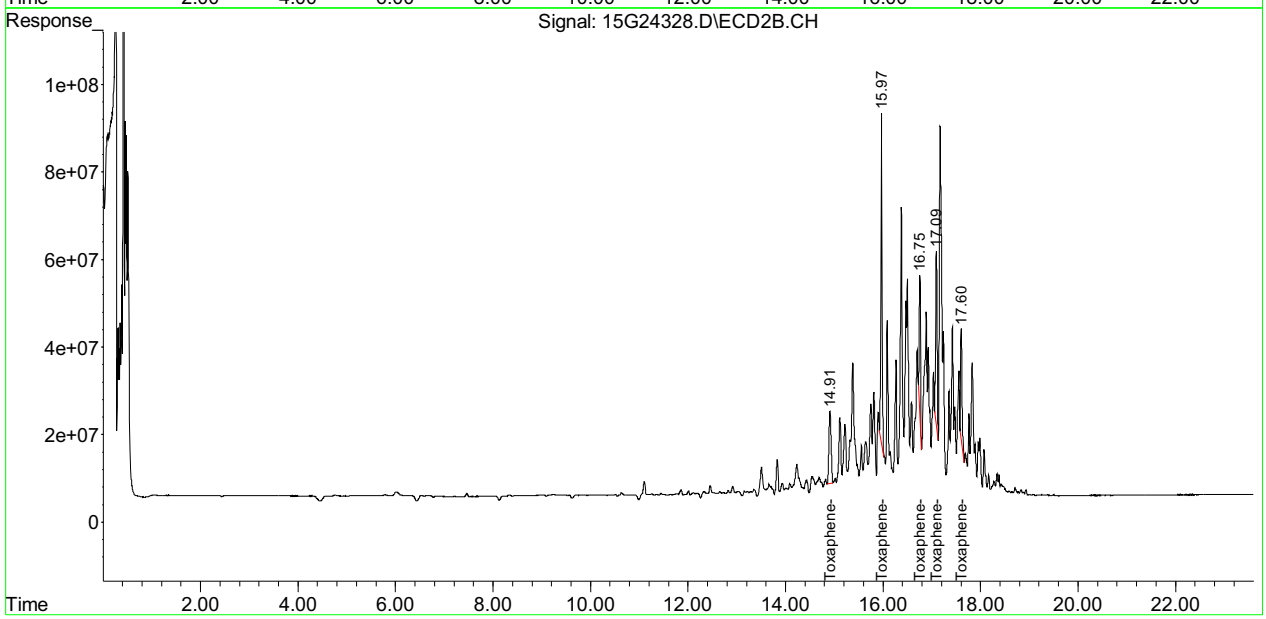
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\120810\
Data File : 15G24328.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Dec 2010 1:05 (#1); 09 Dec 2010 1:33 (#2)
Operator : ECL
Sample : WG350840-03 TOX CCV 500 PPB
Misc : 1,1 STD40827
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Dec 09 11:41:44 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Thu Dec 09 11:39:15 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Data Path : C:\MSDChem\1\DATA\120810\
Data File : 15G24340.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Dec 2010 6:43 (#1); 09 Dec 2010 7:12 (#2)
Operator : ECL
Sample : WG350839-06 PEST CCV 10 PPB
Misc : 1,1 STD40207
ALS Vial : 42 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 09 11:43:06 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

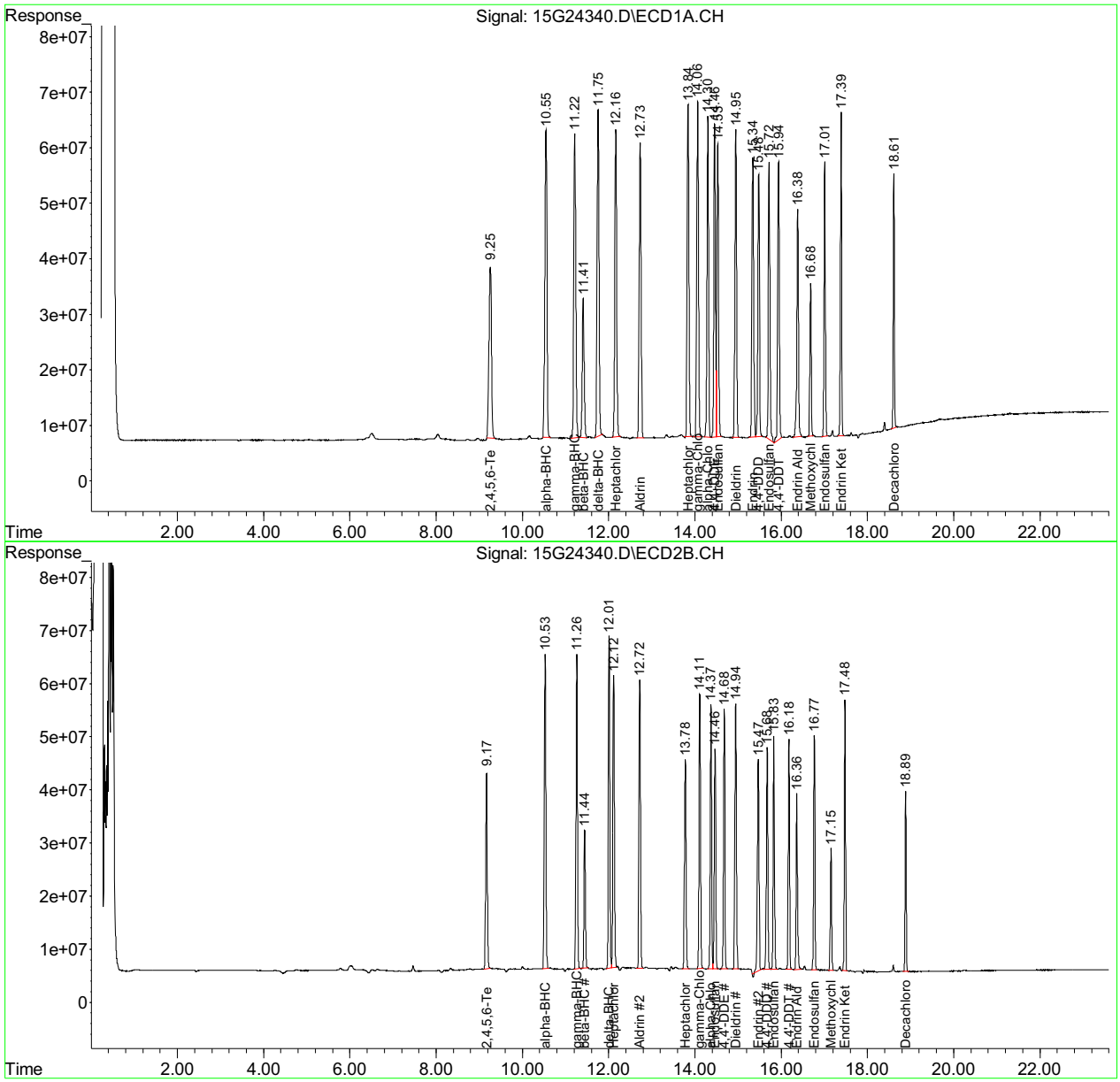
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.25	9.17	1212.8E6	932.1E6	10.664	9.766
	Spiked Amount 20.000	Range 30 - 132		Recovery =		53.32%	48.83%
22) S	Decachlorobiphen	18.61	18.89	873.4E6	614.2E6	10.900	10.198
	Spiked Amount 20.000	Range 36 - 144		Recovery =		54.50%	50.99%
	Target Compounds						
2)	alpha-BHC	10.55	10.53	1793.9E6	1350.5E6	10.748	9.745
3)	gamma-BHC	11.22	11.26	1700.7E6	1311.1E6	10.909	9.284
4)	beta-BHC	11.41	11.44	774.5E6	578.6E6	11.090	8.985
5)	Heptachlor	12.16	12.12	1643.8E6	1294.7E6	10.848	9.492
6)	delta-BHC	11.76	12.01	1715.4E6	1345.8E6	11.210	9.630
7)	Aldrin	12.73	12.72	1488.5E6	1252.4E6	9.586	10.210
8)	Heptachlor Epoxi	13.84	13.78	1589.1E6	955.3E6	11.195	9.068
9)	gamma-Chlordane	14.06	14.11	1597.7E6	1183.2E6	10.778	10.403
10)	alpha-Chlordane	14.30	14.37	1484.6E6	1131.7E6	10.925	10.299
11)	Endosulfan I	14.53	14.46	1415.1E6	965.3E6	11.379	10.364
12)	4,4'-DDE	14.46	14.68	1402.2E6	1067.9E6	10.980	10.201
13)	Dieldrin	14.95	14.95	1434.8E6	1139.9E6	11.557	10.447
14)	Endrin	15.34	15.47	1291.3E6	909.1E6	10.639	9.854
15)	4,4'-DDD	15.48	15.68	1159.2E6	919.8E6	11.163	10.612
16)	Endosulfan II	15.72	15.83	1311.3E6	981.7E6	11.038	10.614
17)	4,4'-DDT	15.94	16.18	1206.3E6	878.5E6	10.202	9.762
18)	Endrin Aldehyde	16.38	16.36	1027.8E6	729.2E6	11.275	10.237
19)	Endosulfan Sulfa	17.01	16.77	1072.7E6	862.5E6	11.220	11.965
20)	Methoxychlor	16.68	17.16	585.6E6	419.6E6	10.374	9.418
21)	Endrin Ketone	17.39	17.48	1226.7E6	926.0E6	11.259	11.480

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDChem\1\DATA\120810\
Data File : 15G24340.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Dec 2010 6:43 (#1); 09 Dec 2010 7:12 (#2)
Operator : ECL
Sample : WG350839-06 PEST CCV 10 PPB
Misc : 1,1 STD40207
ALS Vial : 42 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 09 11:43:06 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\120810\
Data File : 15G24341.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Dec 2010 7:12 (#1); 09 Dec 2010 7:40 (#2)
Operator : ECL
Sample : WG350840-04 TOX CCV 200 PPB
Misc : 1,1 STD40827
ALS Vial : 43 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Dec 09 11:43:41 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Thu Dec 09 11:39:15 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

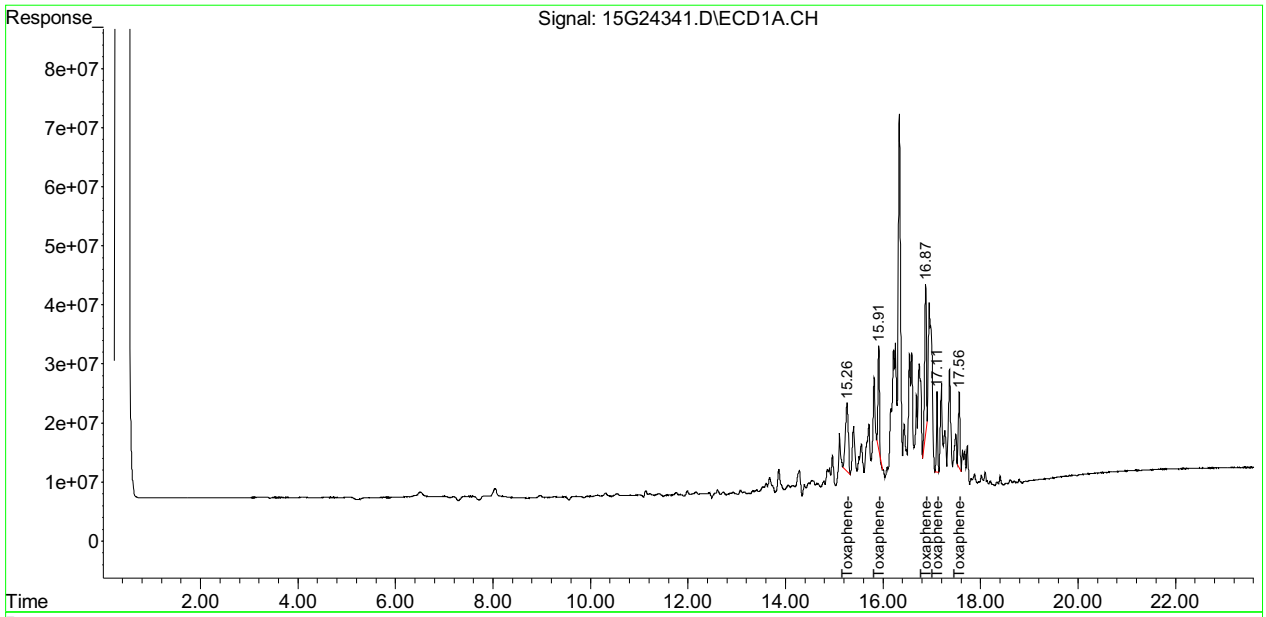
Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
Target Compounds						
1) L1 Toxaphene-1	15.26	14.91	453.6E6	211.4E6	199.631	221.401
2) L1 Toxaphene-2	15.91	15.97	377.7E6	615.2E6	215.504	192.732
3) L1 Toxaphene-3	16.87	16.75	616.3E6	199.3E6	209.939	207.112
4) L1 Toxaphene-4	17.11	17.09	280.7E6	362.2E6	211.330	166.156
5) L1 Toxaphene-5	17.56	17.60	259.3E6	175.8E6	190.754	197.435
Sum Toxaphene-1			1987.6E6	1563.8E6	1027.158	984.837
Average Toxaphene-1					205.432	196.967

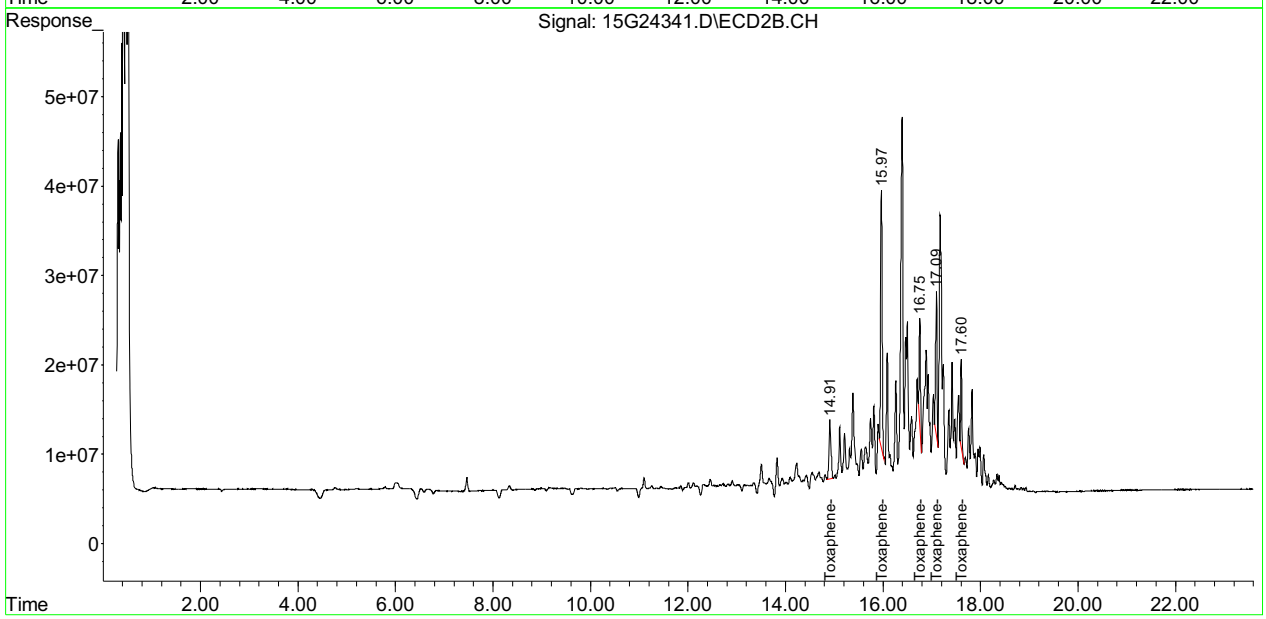
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDChem\1\DATA\120810\
Data File : 15G24341.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Dec 2010 7:12 (#1); 09 Dec 2010 7:40 (#2)
Operator : ECL
Sample : WG350840-04 TOX CCV 200 PPB
Misc : 1,1 STD40827
ALS Vial : 43 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Dec 09 11:43:41 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Thu Dec 09 11:39:15 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Data Path : C:\MSDCHEM\1\DATA\120810\
Data File : 15G24355.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Dec 2010 13:48 (#1); 09 Dec 2010 14:17 (#2)
Operator : ECL
Sample : WG350839-08 PEST CCV 20 PPB
Misc : 1,1 STD40207
ALS Vial : 56 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 09 14:42:14 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

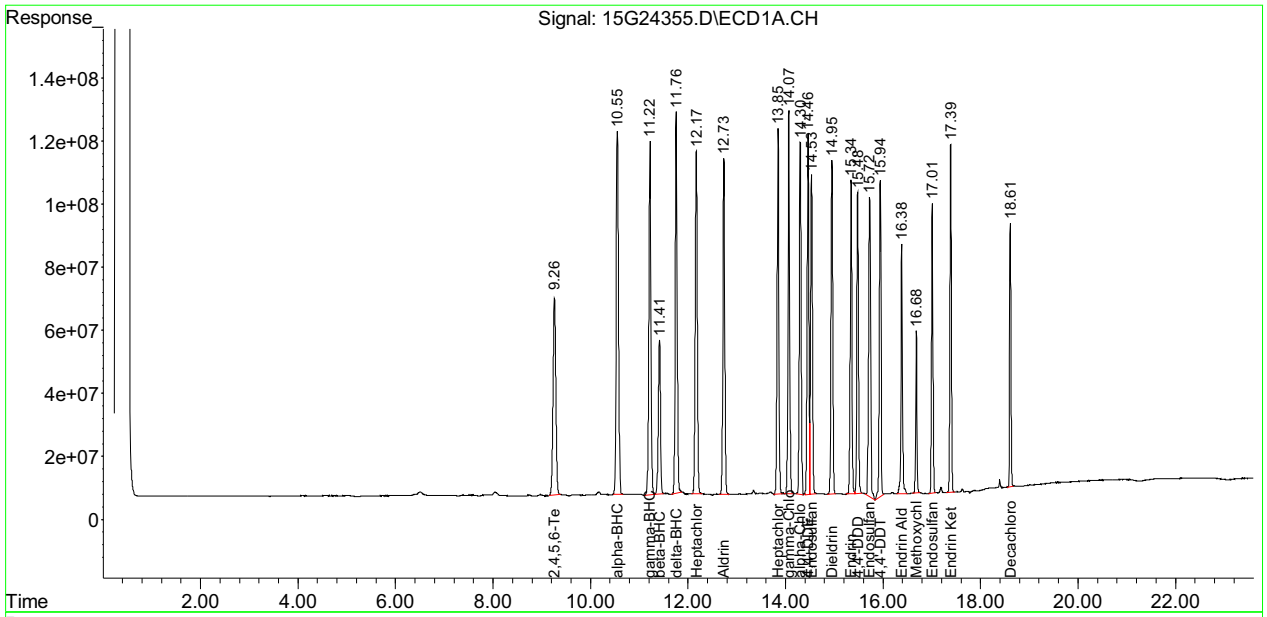
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.26	9.16	2468.6E6	1857.1E6	21.706	19.457
	Spiked Amount 20.000	Range 30 - 132		Recovery =		108.53%	97.28%
22) S	Decachlorobiphen	18.61	18.88	1567.8E6	1071.6E6	19.565	17.792
	Spiked Amount 20.000	Range 36 - 144		Recovery =		97.83%	88.96%
	Target Compounds						
2)	alpha-BHC	10.55	10.52	3749.4E6	2785.5E6	22.464	20.099
3)	gamma-BHC	11.22	11.26	3499.6E6	2670.5E6	22.447	18.910
4)	beta-BHC	11.41	11.44	1521.9E6	1148.2E6	21.791	17.829
5)	Heptachlor	12.17	12.11	3243.6E6	2645.9E6	21.405	19.399
6)	delta-BHC	11.76	12.01	3530.5E6	2846.1E6	23.072	20.364
7)	Aldrin	12.74	12.72	2995.6E6	2507.1E6	19.292	20.438
8)	Heptachlor Epoxi	13.85	13.77	3101.1E6	1800.3E6	21.846	17.090
9)	gamma-Chlordane	14.07	14.11	3154.5E6	2338.8E6	21.281	20.563
10)	alpha-Chlordane	14.30	14.37	2808.7E6	2218.6E6	20.669	20.191
11)	Endosulfan I	14.53	14.46	2698.3E6	1882.1E6	21.697	20.208
12)	4,4'-DDE	14.46	14.68	2851.7E6	2129.5E6	22.329	20.341
13)	Dieldrin	14.95	14.94	2758.0E6	2243.0E6	22.215	20.558
14)	Endrin	15.34	15.46	2536.7E6	1767.7E6	20.899	19.161
15)	4,4'-DDD	15.48	15.67	2318.8E6	1808.5E6	22.330	20.867
16)	Endosulfan II	15.72	15.83	2497.1E6	1878.2E6	21.019	20.306
17)	4,4'-DDT	15.94	16.18	2363.4E6	1708.2E6	19.987	18.982
18)	Endrin Aldehyde	16.38	16.36	1898.4E6	1335.9E6	20.827	18.756
19)	Endosulfan Sulfa	17.01	16.76	1986.6E6	1622.4E6	20.778	22.508
20)	Methoxychlor	16.68	17.15	1082.8E6	777.0E6	19.183	17.440
21)	Endrin Ketone	17.39	17.47	2307.5E6	1744.0E6	21.177	21.619

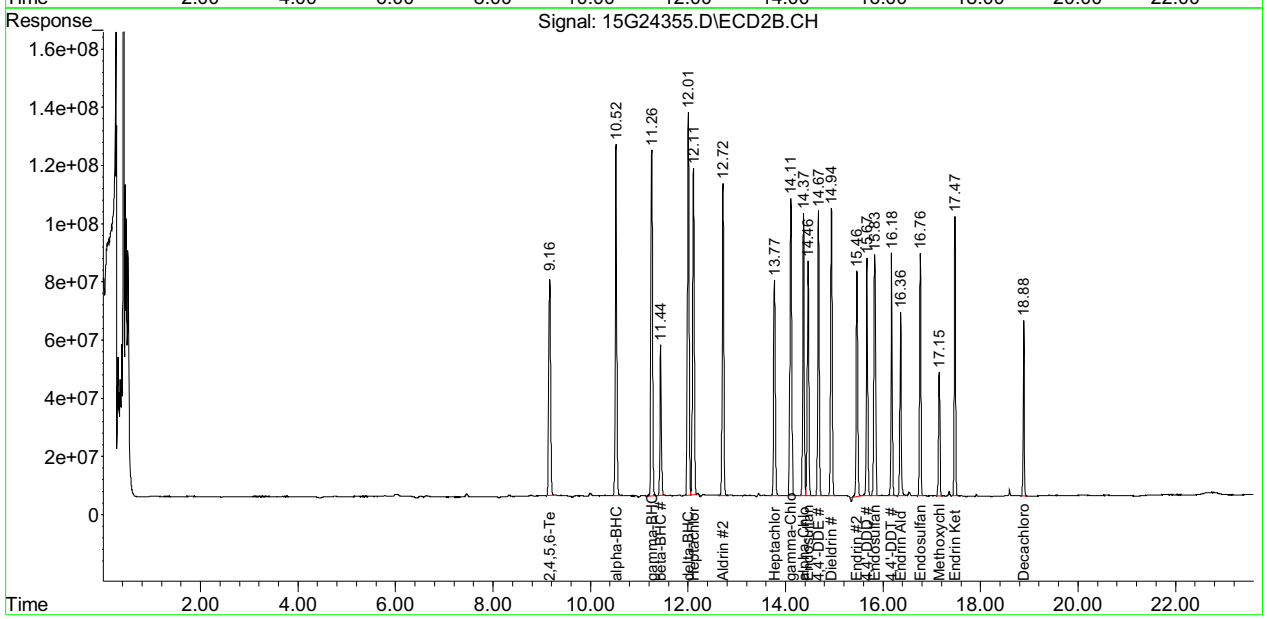
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\120810\
Data File : 15G24355.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Dec 2010 13:48 (#1); 09 Dec 2010 14:17 (#2)
Operator : ECL
Sample : WG350839-08 PEST CCV 20 PPB
Misc : 1,1 STD40207
ALS Vial : 56 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 09 14:42:14 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\120810\
Data File : 15G24356.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Dec 2010 14:17 (#1); 09 Dec 2010 14:45 (#2)
Operator : ECL
Sample : WG350840-05 TOX CCV 500 PPB
Misc : 1,1 STD40827
ALS Vial : 57 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Dec 09 15:15:50 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Thu Dec 09 11:39:15 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

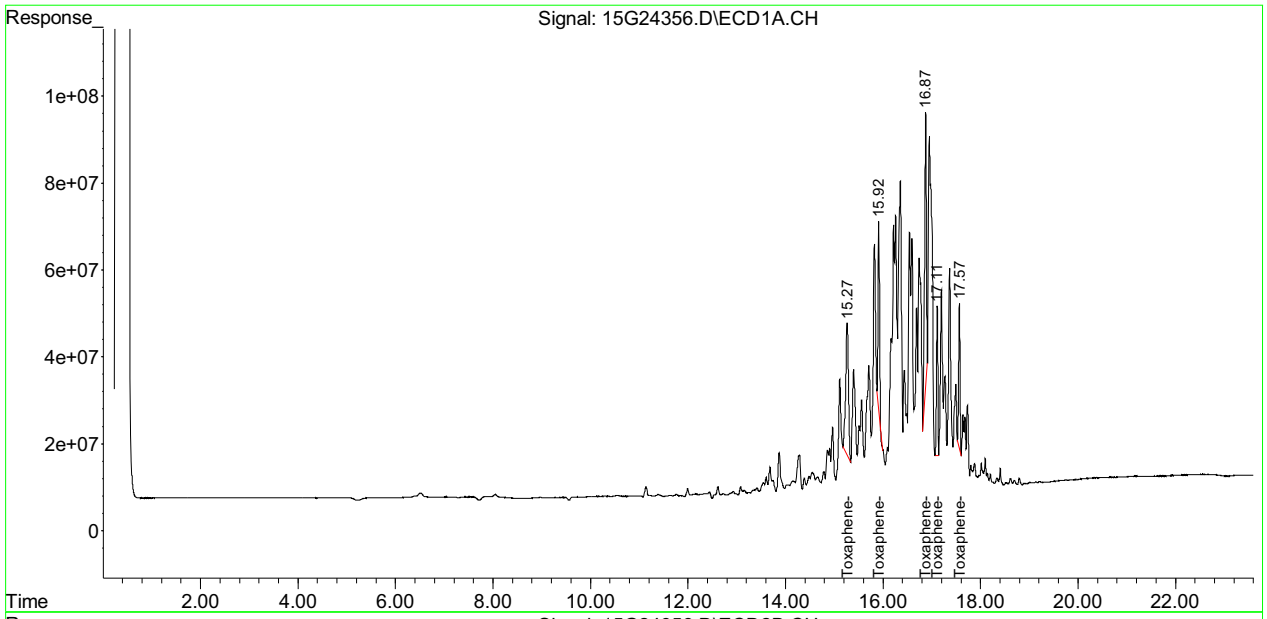
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	Target Compounds						
1)	L1 Toxaphene-1	15.26	14.91	1197.7E6	524.2E6	527.130	548.978
2)	L1 Toxaphene-2	15.92	15.96	915.7E6	1585.5E6	522.464	496.740
3)	L1 Toxaphene-3	16.88	16.75	1535.3E6	493.1E6	523.010	512.354
4)	L1 Toxaphene-4	17.11	17.09	712.6E6	1000.7E6	536.597	459.040
5)	L1 Toxaphene-5	17.57	17.60	670.8E6	435.6E6	493.350	489.280
	Sum Toxaphene-1			5032.1E6	4038.9E6	2602.551	2506.393
Average	Toxaphene-1					520.510	501.279

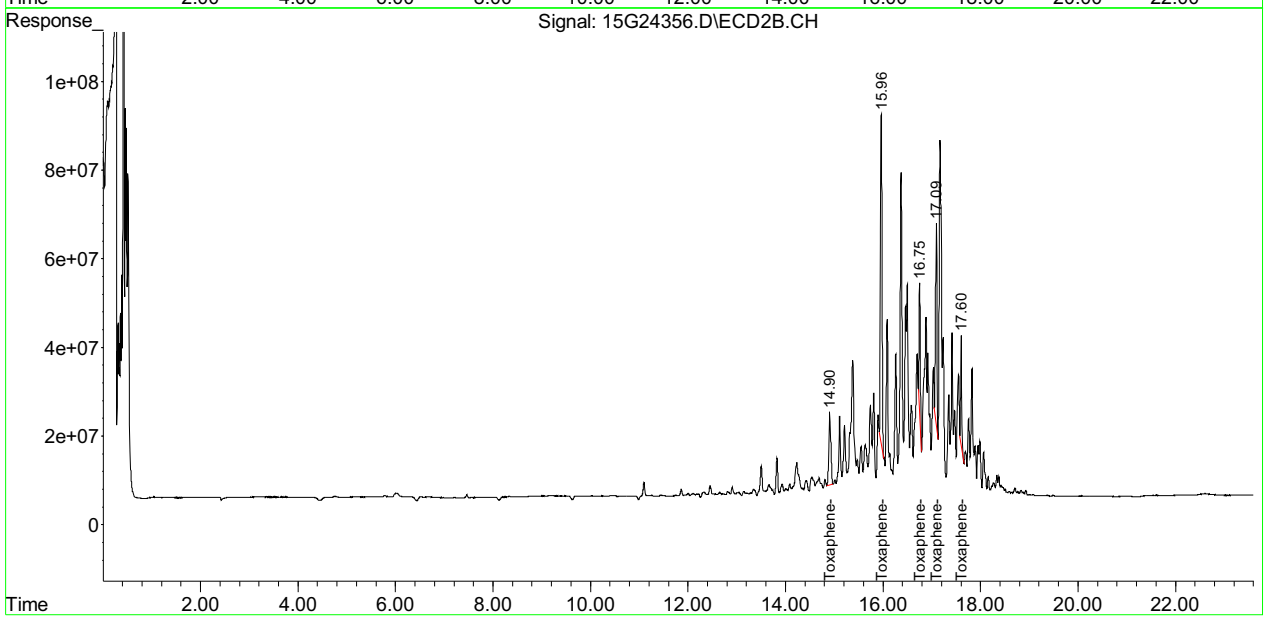
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\120810\
Data File : 15G24356.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Dec 2010 14:17 (#1); 09 Dec 2010 14:45 (#2)
Operator : ECL
Sample : WG350840-05 TOX CCV 500 PPB
Misc : 1,1 STD40827
ALS Vial : 57 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Dec 09 15:15:50 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Thu Dec 09 11:39:15 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Data Path : C:\MSDChem\1\DATA\120810\
Data File : 15G24326.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Dec 2010 00:08 (#1); 09 Dec 2010 00:36 (#2)
Operator : ECL
Sample : WG350839-04 ENDRIN/DDT
Misc : 1,1 STD39983
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 09 11:40:17 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount 20.000	Range 30 - 132		Recovery =		0.00%#	0.00%#
22) S	Decachlorobiphen	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount 20.000	Range 36 - 144		Recovery =		0.00%#	0.00%#
	Target Compounds						
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.
5)	Heptachlor	0.00	0.00	0	0	N.D.	N.D.
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.
9)	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11)	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
12)	4,4'-DDE	14.46	14.68	97586880	78656587	0.764	0.751
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
14)	Endrin	15.35	15.47	6222.8E6	4366.0E6	51.267	47.326
15)	4,4'-DDD	15.48	15.67	113.6E6	131.0E6	1.094	1.512 #
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.
17)	4,4'-DDT	15.94	16.18	5525.9E6	4093.8E6	46.733	45.489
18)	Endrin Aldehyde	16.38	16.36	115.6E6	78459418	1.268	1.102
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.
21)	Endrin Ketone	17.39	17.48	167.4E6	160.0E6	1.536	1.983 #

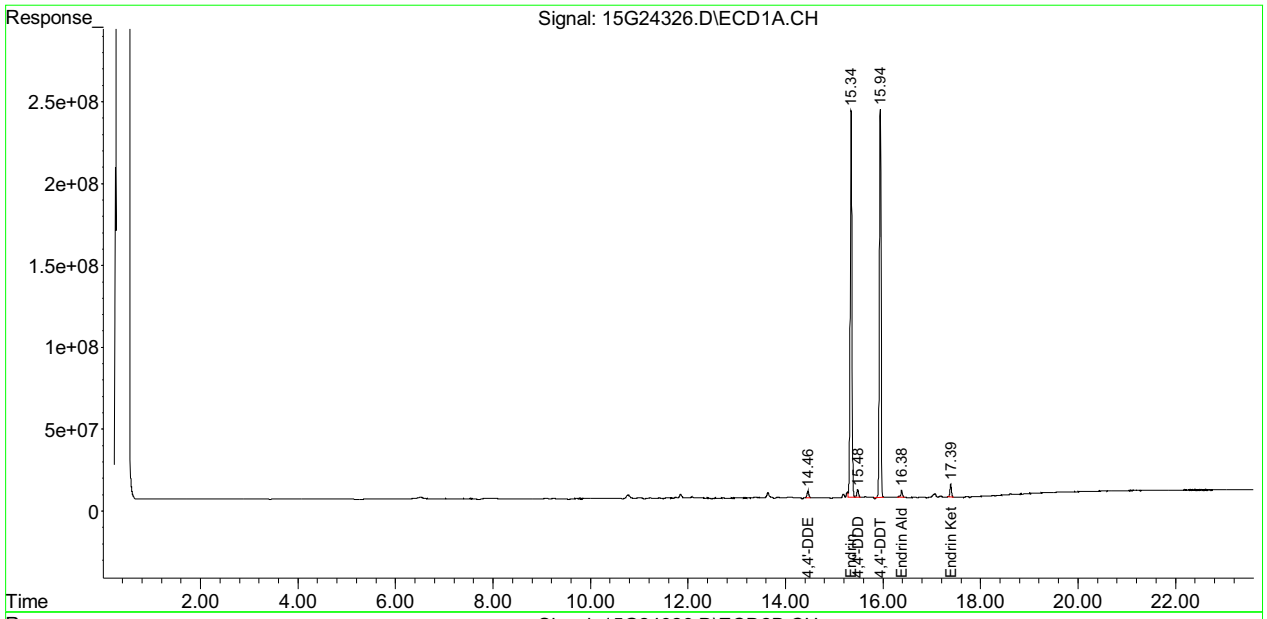
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

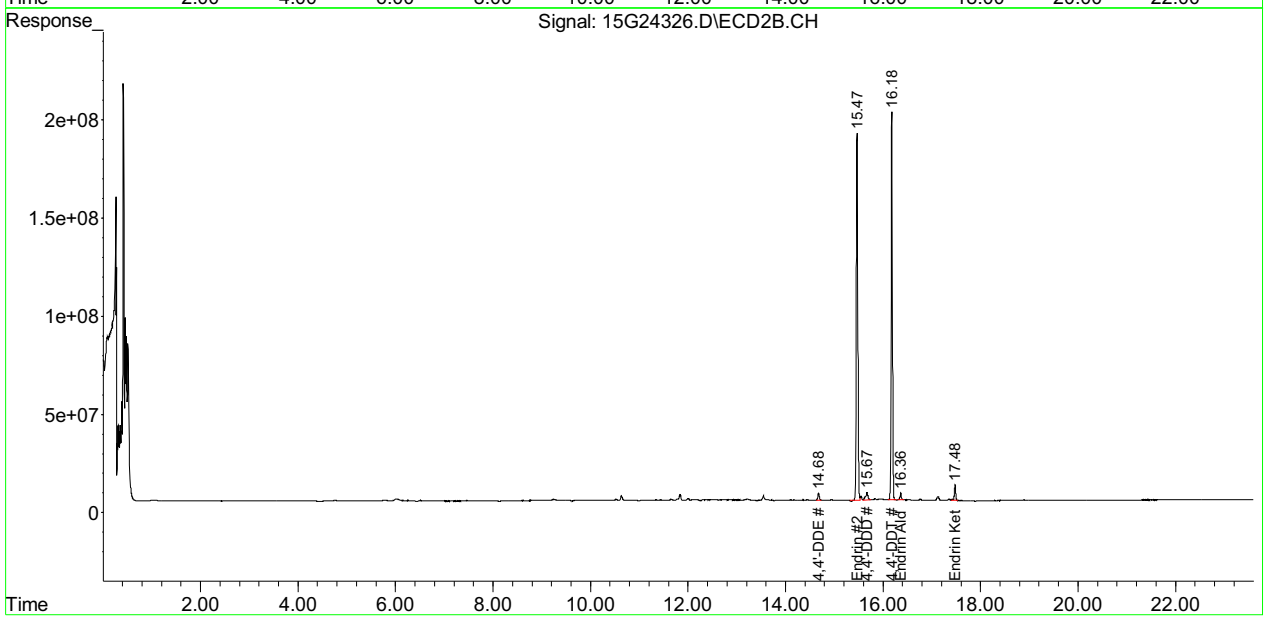
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\120810\
Data File : 15G24326.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Dec 2010 00:08 (#1); 09 Dec 2010 00:36 (#2)
Operator : ECL
Sample : WG350839-04 ENDRIN/DDT
Misc : 1,1 STD39983
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 09 11:40:17 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Data Path : C:\MSDChem\1\DATA\120810\
Data File : 15G24354.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Dec 2010 13:20 (#1); 09 Dec 2010 13:48 (#2)
Operator : ECL
Sample : WG350839-07 ENDRIN/DDT
Misc : 1,1 STD39983
ALS Vial : 55 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 09 14:12:41 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount 20.000	Range 30 - 132		Recovery =		0.00%#	0.00%#
22) S	Decachlorobiphen	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount 20.000	Range 36 - 144		Recovery =		0.00%#	0.00%#
	Target Compounds						
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.
5)	Heptachlor	0.00	0.00	0	0	N.D.	N.D.
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.
9)	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11)	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
12)	4,4'-DDE	14.46	14.67	118.6E6	77692464	0.929	0.742
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
14)	Endrin	15.35	15.46	6008.9E6	4222.3E6	49.505	45.769
15)	4,4'-DDD	15.48	15.67	141.3E6	84542195	1.360	0.975 #
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.
17)	4,4'-DDT	15.94	16.18	5297.6E6	4042.2E6	44.802	44.916
18)	Endrin Aldehyde	16.39	0.00	72334516	0	0.794	N.D. #
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.
21)	Endrin Ketone	17.39	17.47	188.4E6	149.8E6	1.729	1.856

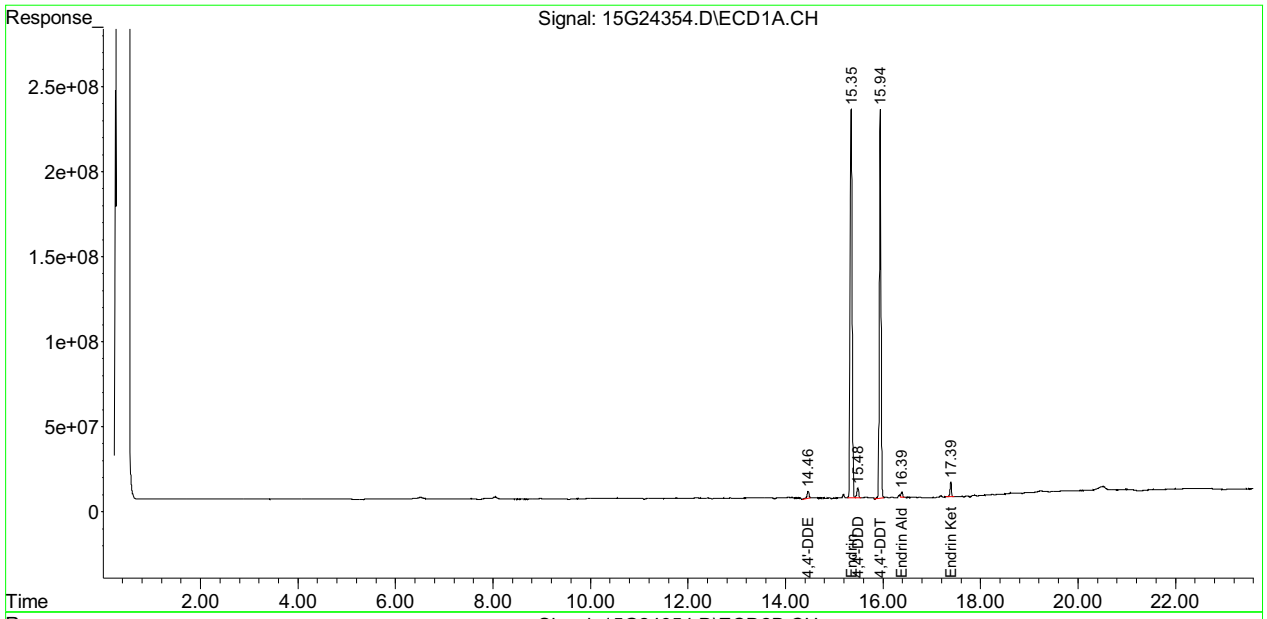
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

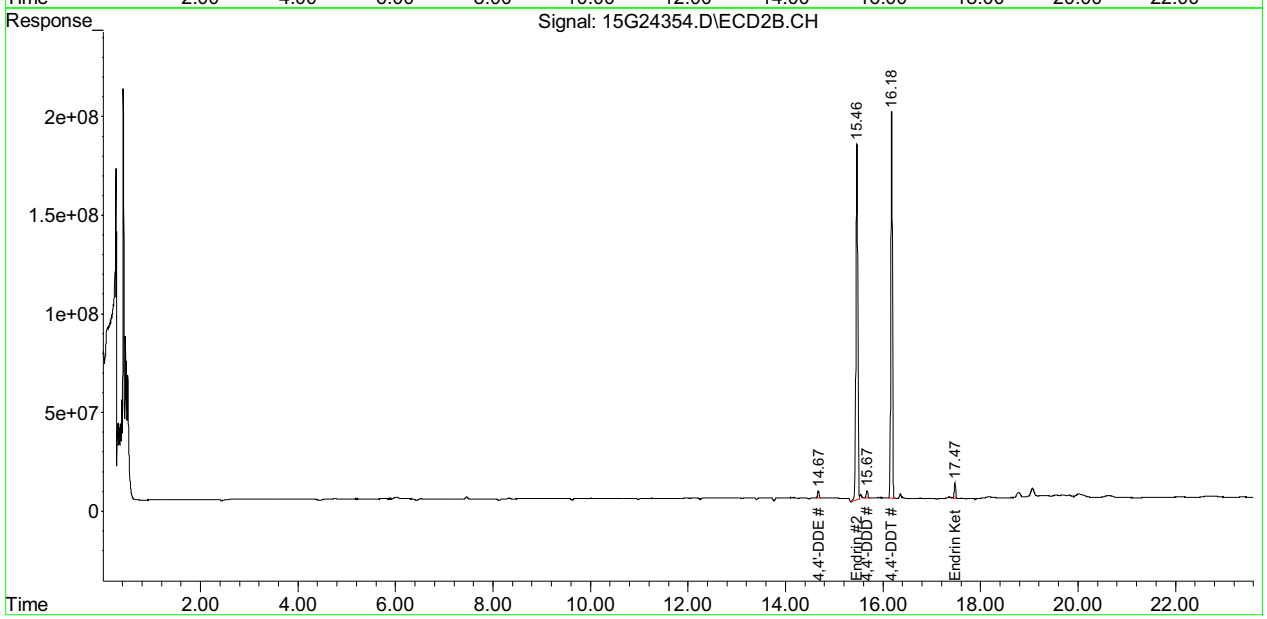
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\120810\
Data File : 15G24354.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Dec 2010 13:20 (#1); 09 Dec 2010 13:48 (#2)
Operator : ECL
Sample : WG350839-07 ENDRIN/DDT
Misc : 1,1 STD39983
ALS Vial : 55 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 09 14:12:41 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





RETENTION TIME WINDOWS

Lab Name: Microbac Laboratories

Instrument ID: HP 15

GC Column: RTx-CLP (Front)

	STANDARD #1	STANDARD #2	STANDARD #3
Date Run	8/27/09	8/28/09	9/1/09
File #	15G18733	15G18777	15G18817

COMPOUND	STD #1 RT	STD #2 RT	STD #3 RT	RT WIN
alpha-BHC	10.90	10.89	10.89	0.017
gamma-BHC	11.58	11.57	11.56	0.030
beta-BHC	11.77	11.76	11.75	0.030
Heptachlor	12.53	12.51	12.51	0.035
delta-BHC	12.12	12.11	12.10	0.030
Aldrin	13.09	13.08	13.08	0.017
Heptachlor Epoxide	14.22	14.21	14.20	0.030
gamma-Chlordane	14.44	14.43	14.42	0.030
alpha-Chlordane	14.67	14.66	14.66	0.017
Endosulfan I	14.91	14.90	14.90	0.017
4,4'-DDE	14.82	14.81	14.80	0.030
Dieldrin	15.33	15.32	15.31	0.030
Endrin	15.73	15.72	15.71	0.030
4,4'-DDD	15.84	15.83	15.83	0.017
Endosulfan II	16.09	16.09	16.08	0.017
4,4'-DDT	16.28	16.27	16.27	0.017
Endrin Aldehyde	16.73	16.73	16.72	0.017
Endosulfan Sulfate	17.34	17.34	17.33	0.017
Methoxychlor	16.99	16.98	16.97	0.030
Endrin Ketone	17.71	17.70	17.70	0.017
2,4,5,6-Tetrachloro-M-Xylene	9.60	9.59	9.59	0.017
Decachlorobiphenyl	18.89	18.89	18.88	0.017

2.1.1.5 Raw QC Data

Data Path : C:\MSDChem\1\DATA\120810\
Data File : 15G24331.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Dec 2010 2:29 (#1); 09 Dec 2010 2:57 (#2)
Operator : ECL
Sample : WG350553-01 BLANK
Misc : 7,1 SOIL
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 09 12:26:37 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:46:00 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L	
	System Monitoring Compounds							
1) S	2,4,5,6-Tetrachl	9.25	9.17	1507.7E6	1168.6E6	13.257	12.243	
	Spiked Amount 20.000	Range 29 - 133		Recovery =		66.28%	61.21%	
22) S	Decachlorobiphen	18.61	18.89	1269.6E6	917.3E6	15.844	15.231	
	Spiked Amount 20.000	Range 30 - 173		Recovery =		79.22%	76.16%	
	Target Compounds							
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.	
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.	
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.	
5)	Heptachlor	0.00	0.00	0	0	N.D.	N.D.	
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.	
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.	
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.	
9)	gamma-Chlordane	14.05	0.00	117.6E6	0	0.793	N.D.	#
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.	
11)	Endosulfan I	14.55f	14.48	98785481	61736263	0.794	0.663	
12)	4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.	
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.	
14)	Endrin	0.00	0.00	0	0	N.D.	N.D.	
15)	4,4'-DDD	0.00	0.00	0	0	N.D.	N.D.	
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.	
17)	4,4'-DDT	0.00	0.00	0	0	N.D.	N.D.	
18)	Endrin Aldehyde	0.00	0.00	0	0	N.D.	N.D.	
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.	
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.	
21)	Endrin Ketone	0.00	0.00	0	0	N.D.	N.D.	

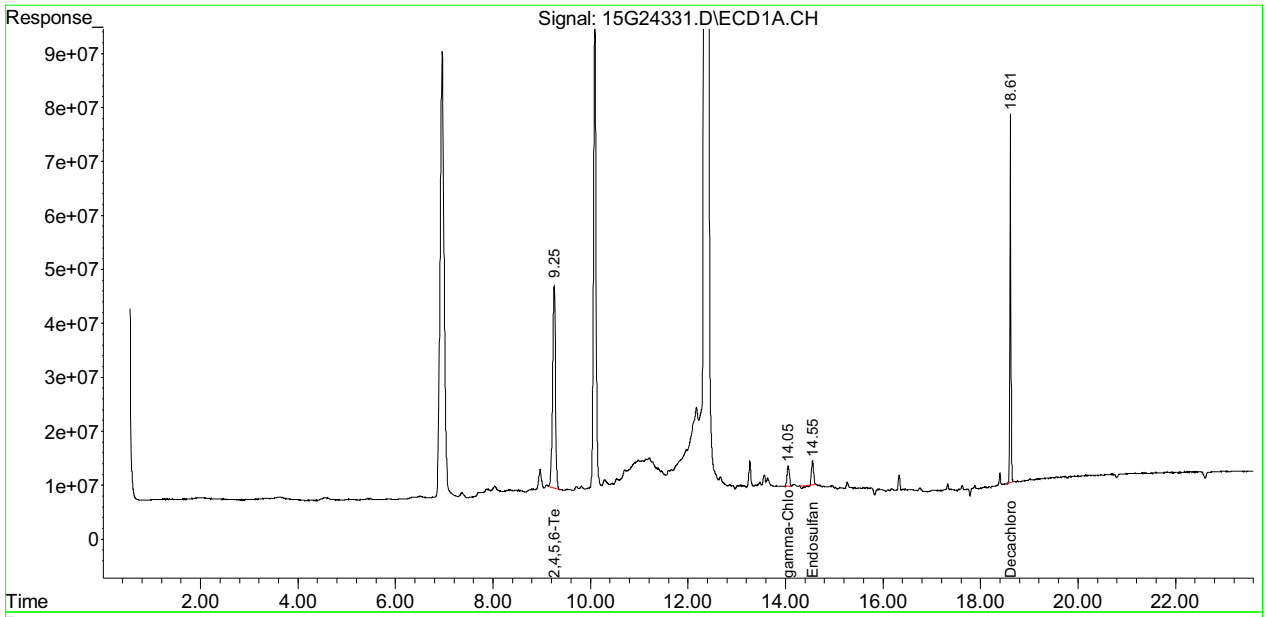
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

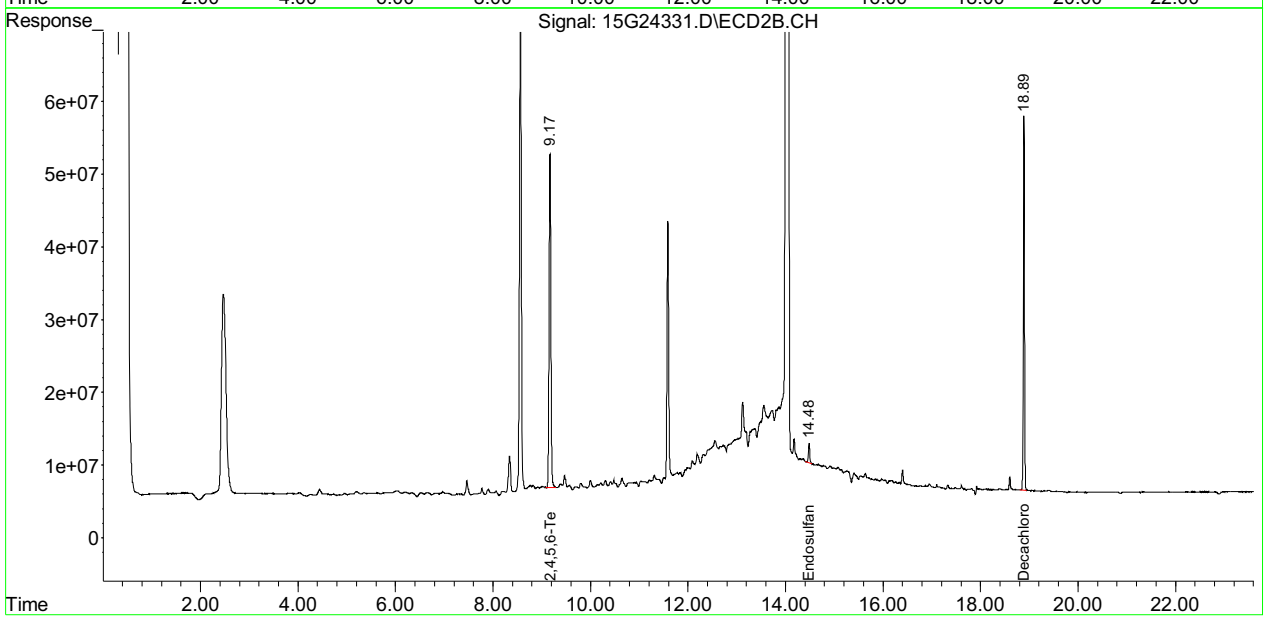
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\120810\
Data File : 15G24331.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Dec 2010 2:29 (#1); 09 Dec 2010 2:57 (#2)
Operator : ECL
Sample : WG350553-01 BLANK
Misc : 7,1 SOIL
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 09 12:26:37 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:46:00 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



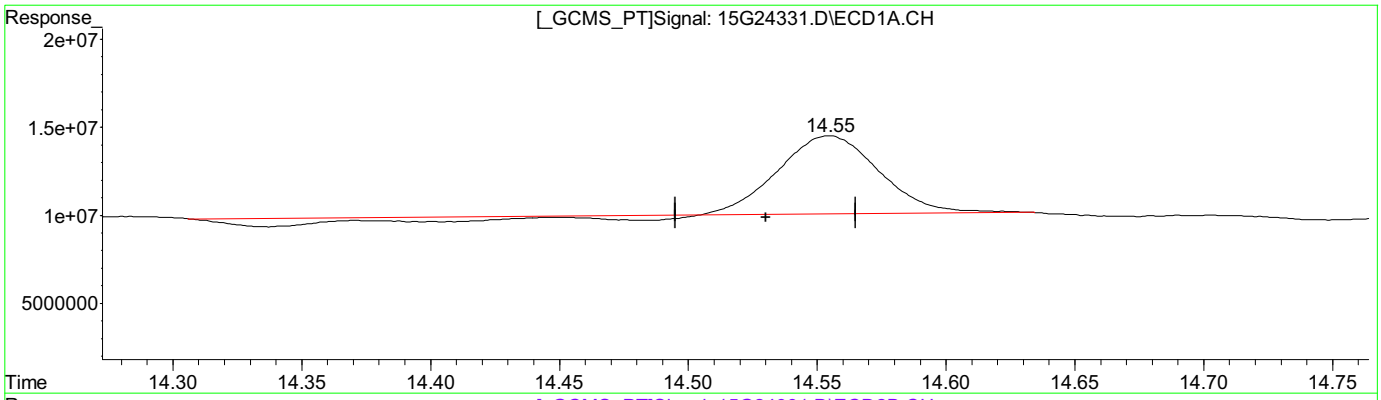


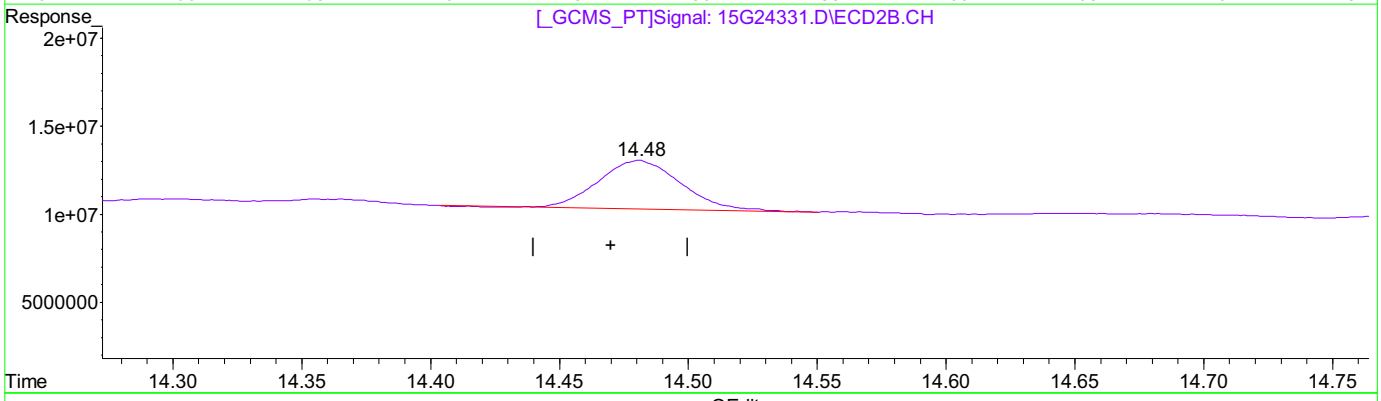
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\120810\
Data File : 15G24331.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 09 Dec 2010   2:29 (#1); 09 Dec 2010   2:57 (#2)
Operator : ECL
Sample   : WG350553-01 BLANK
Misc   : 7,1 SOIL
ALS Vial : 33   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 09 12:26:37 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:46:00 2010
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :





QEdit

(11) Endosulfan I

14.55min 0.794UG/L

response 98785481

(11) Endosulfan I #2

14.48min 0.663UG/L

response 61736263

(+) = Expected Retention Time

8081.M Thu Dec 09 12:53:25 2010 Page: 1

Data Path : C:\MSDChem\1\DATA\120810\
Data File : 15G24332.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Dec 2010 2:57 (#1); 09 Dec 2010 3:26 (#2)
Operator : ECL
Sample : WG350553-02 LCS
Misc : 7,1 SOIL
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 09 12:26:48 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:46:00 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.26	9.17	1567.5E6	1220.1E6	13.783	12.783
	Spiked Amount 20.000	Range 29 - 133		Recovery =		68.91%	63.91%
22) S	Decachlorobiphen	18.61	18.89	1380.1E6	999.1E6	17.222	16.588
	Spiked Amount 20.000	Range 30 - 173		Recovery =		86.11%	82.94%
	Target Compounds						
2)	alpha-BHC	10.55	10.53	7679.6E6	5741.2E6	46.011	41.427
3)	gamma-BHC	11.22	11.26	8091.6E6	5701.3E6	51.902	40.371
4)	beta-BHC	11.41	11.44	3229.7E6	2279.5E6	46.244	35.396
5)	Heptachlor	12.16	12.11	6659.8E6	5579.2E6	43.950	40.904
6)	delta-BHC	11.75	12.01	7557.5E6	6035.6E6	49.387	43.185
7)	Aldrin	12.73	12.72	6106.7E6	5109.8E6	39.328	41.655
8)	Heptachlor Epoxi	13.84	13.77	5746.0E6	4122.0E6	40.479	39.130
9)	gamma-Chlordane	14.07	14.11	6741.8E6	4989.3E6	45.481	43.868
10)	alpha-Chlordane	14.30	14.37	6376.4E6	4921.7E6	46.922	44.791
11)	Endosulfan I	14.53	14.46	5870.0E6	4035.4E6	47.200	43.327
12)	4,4'-DDE	14.46	14.68	6353.3E6	4891.4E6	49.747	46.724
13)	Dieldrin	14.95	14.94	6203.4E6	4834.6E6	49.967	44.311
14)	Endrin	15.34	15.47	5803.5E6	4093.8E6	47.813	44.376
15)	4,4'-DDD	15.48	15.67	4950.1E6	3955.1E6	47.669	45.635
16)	Endosulfan II	15.72	15.83	4857.6E6	3858.0E6	40.887	41.712
17)	4,4'-DDT	15.94	16.18	5427.2E6	4253.4E6	45.898	47.263
18)	Endrin Aldehyde	16.38	16.36	3089.3E6	2184.6E6	33.893	30.672
19)	Endosulfan Sulfa	17.01	16.77	3946.6E6	3201.8E6	41.277	44.419
20)	Methoxychlor	16.68	17.15	2464.2E6	1875.9E6	43.657	42.102
21)	Endrin Ketone	17.39	17.48	4907.8E6	3733.4E6	45.042	46.281

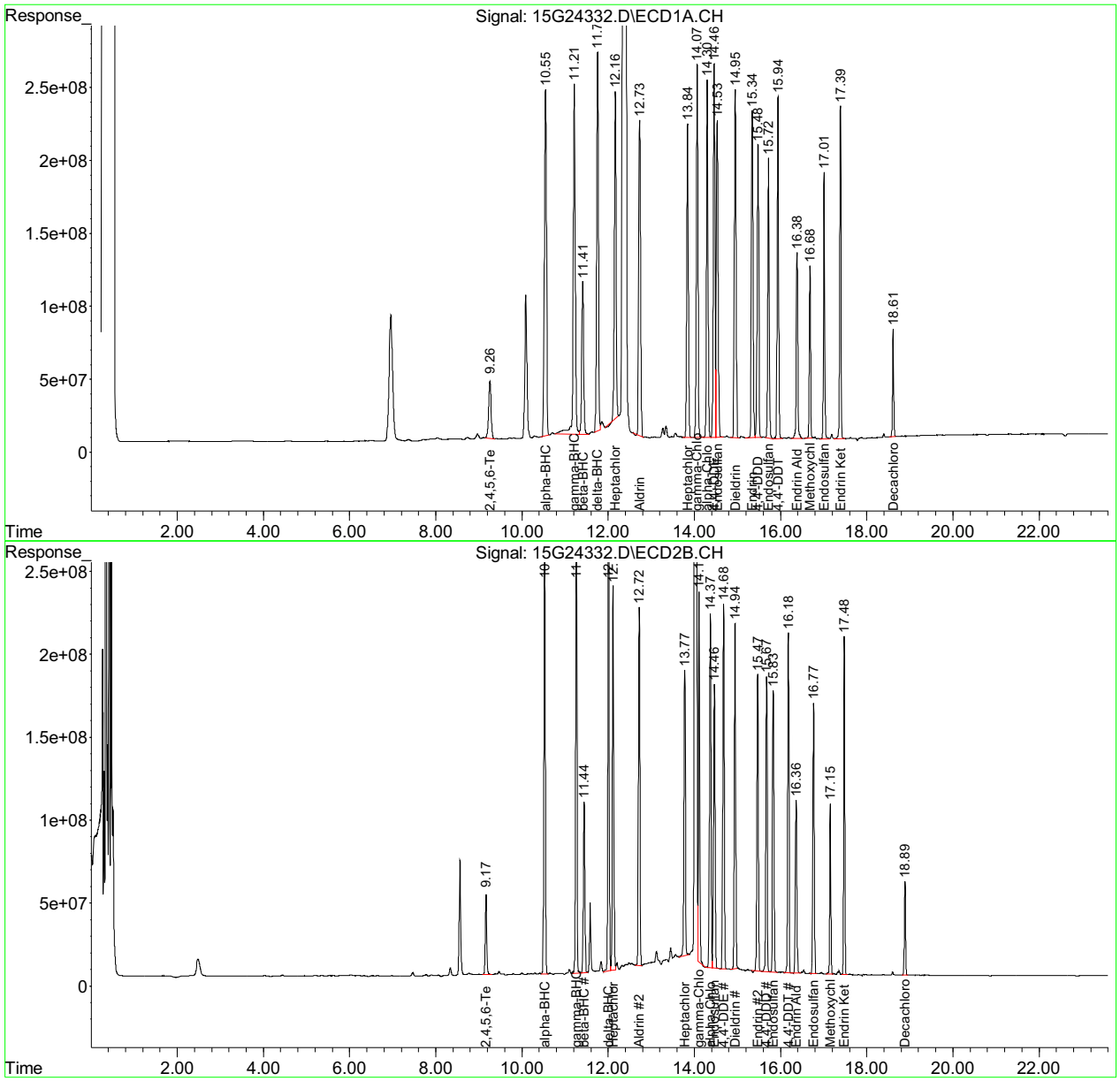
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\120810\
Data File : 15G24332.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Dec 2010 2:57 (#1); 09 Dec 2010 3:26 (#2)
Operator : ECL
Sample : WG350553-02 LCS
Misc : 7,1 SOIL
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 09 12:26:48 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:46:00 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDChem\1\DATA\120810\
Data File : 15G24333.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Dec 2010 3:26 (#1); 09 Dec 2010 3:54 (#2)
Operator : ECL
Sample : WG350553-03 LCS DUP
Misc : 7,1 SOIL
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 09 12:26:59 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:46:00 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.26	9.17	1503.4E6	1136.2E6	13.219	11.904
	Spiked Amount 20.000	Range 29 - 133		Recovery =		66.09%	59.52%
22) S	Decachlorobiphen	18.61	18.89	1313.9E6	933.8E6	16.397	15.504
	Spiked Amount 20.000	Range 30 - 173		Recovery =		81.98%	77.52%
	Target Compounds						
2)	alpha-BHC	10.55	10.53	7242.6E6	5359.7E6	43.393	38.674
3)	gamma-BHC	11.22	11.26	7501.3E6	5252.8E6	48.116	37.196
4)	beta-BHC	11.41	11.44	3062.3E6	2129.9E6	43.847	33.072
5)	Heptachlor	12.17	12.11	6337.1E6	5099.2E6	41.821	37.385
6)	delta-BHC	11.76	12.01	7236.1E6	5555.6E6	47.287	39.751
7)	Aldrin	12.73	12.72	5851.4E6	4710.3E6	37.684	38.399
8)	Heptachlor Epoxi	13.84	13.78	5479.8E6	3744.8E6	38.603	35.549
9)	gamma-Chlordane	14.07	14.11	6401.5E6	4651.7E6	43.185	40.899
10)	alpha-Chlordane	14.30	14.37	6021.5E6	4529.8E6	44.311	41.225
11)	Endosulfan I	14.53	14.46	5579.8E6	3790.8E6	44.867	40.701
12)	4,4'-DDE	14.46	14.68	6024.6E6	4519.2E6	47.173	43.168
13)	Dieldrin	14.95	14.94	5896.1E6	4493.5E6	47.492	41.185
14)	Endrin	15.34	15.47	5511.6E6	3848.7E6	45.408	41.719
15)	4,4'-DDD	15.48	15.67	4709.7E6	3682.7E6	45.353	42.492
16)	Endosulfan II	15.72	15.83	4684.0E6	3614.5E6	39.426	39.080
17)	4,4'-DDT	15.94	16.18	5196.5E6	3941.1E6	43.947	43.793
18)	Endrin Aldehyde	16.38	16.36	3001.8E6	2089.2E6	32.932	29.331
19)	Endosulfan Sulfa	17.01	16.77	3797.2E6	3008.7E6	39.715	41.740
20)	Methoxychlor	16.68	17.15	2361.6E6	1763.9E6	41.840	39.589
21)	Endrin Ketone	17.39	17.48	4667.3E6	3502.0E6	42.835	43.413

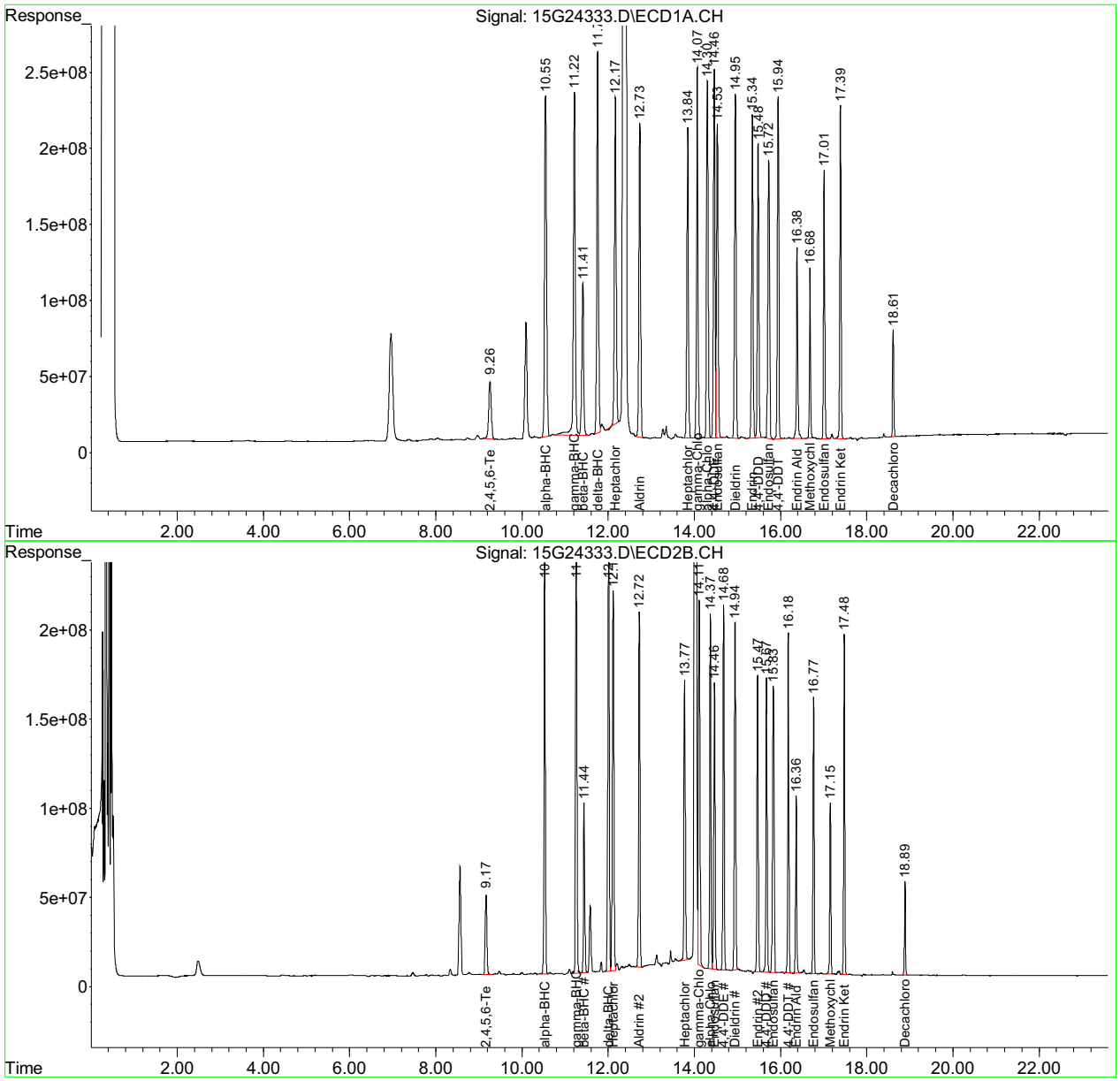
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\120810\
Data File : 15G24333.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Dec 2010 3:26 (#1); 09 Dec 2010 3:54 (#2)
Operator : ECL
Sample : WG350553-03 LCS DUP
Misc : 7,1 SOIL
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 09 12:26:59 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:46:00 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\120810\
Data File : 15G24334.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Dec 2010 3:54 (#1); 09 Dec 2010 4:22 (#2)
Operator : ECL
Sample : WG350553-04 TOX LCS
Misc : 7,1 SOIL
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Dec 09 15:27:03 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Thu Dec 09 11:39:15 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
Target Compounds						
1) L1 Toxaphene-1	15.26	14.91	365.2E6	161.5E6	160.747	169.153
2) L1 Toxaphene-2	15.91	15.97	294.4E6	510.6E6	167.974	159.982
3) L1 Toxaphene-3	16.87	16.75	499.5E6	167.3E6	170.156	173.882
4) L1 Toxaphene-4	17.11	17.09	221.0E6	358.9E6	166.419	164.655
5) L1 Toxaphene-5	17.56	17.60	214.9E6	157.8E6	158.029	177.283
Sum Toxaphene-1			1595.0E6	1356.2E6	823.325	844.955
Average Toxaphene-1					164.665	168.991

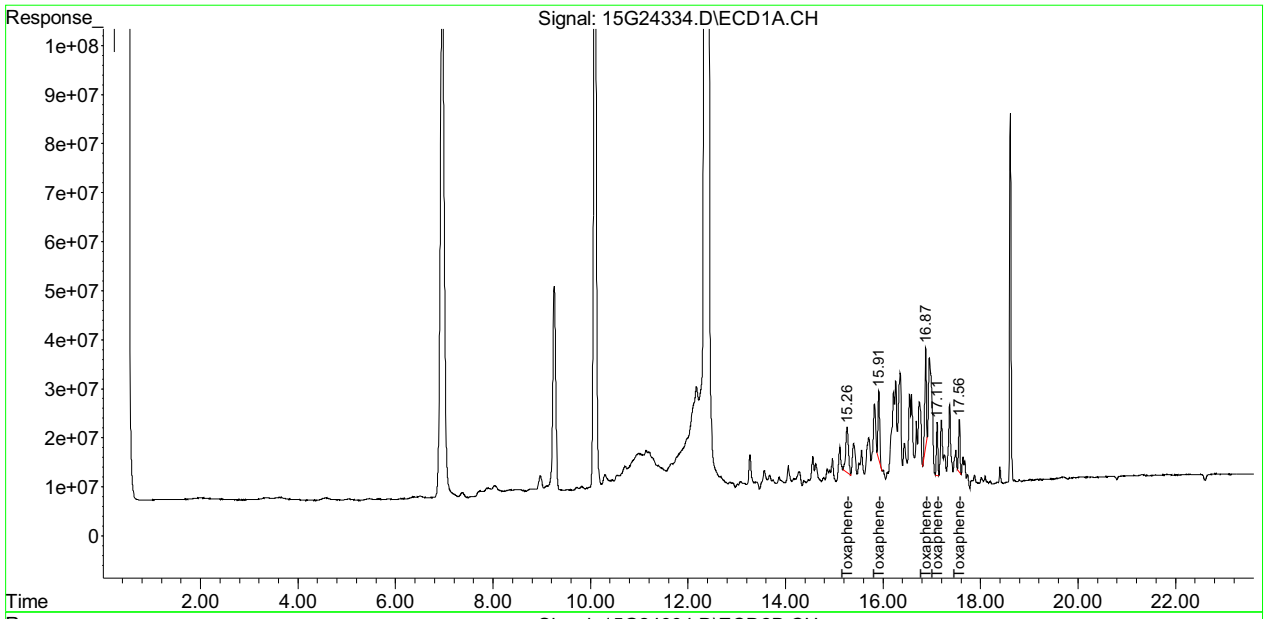
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

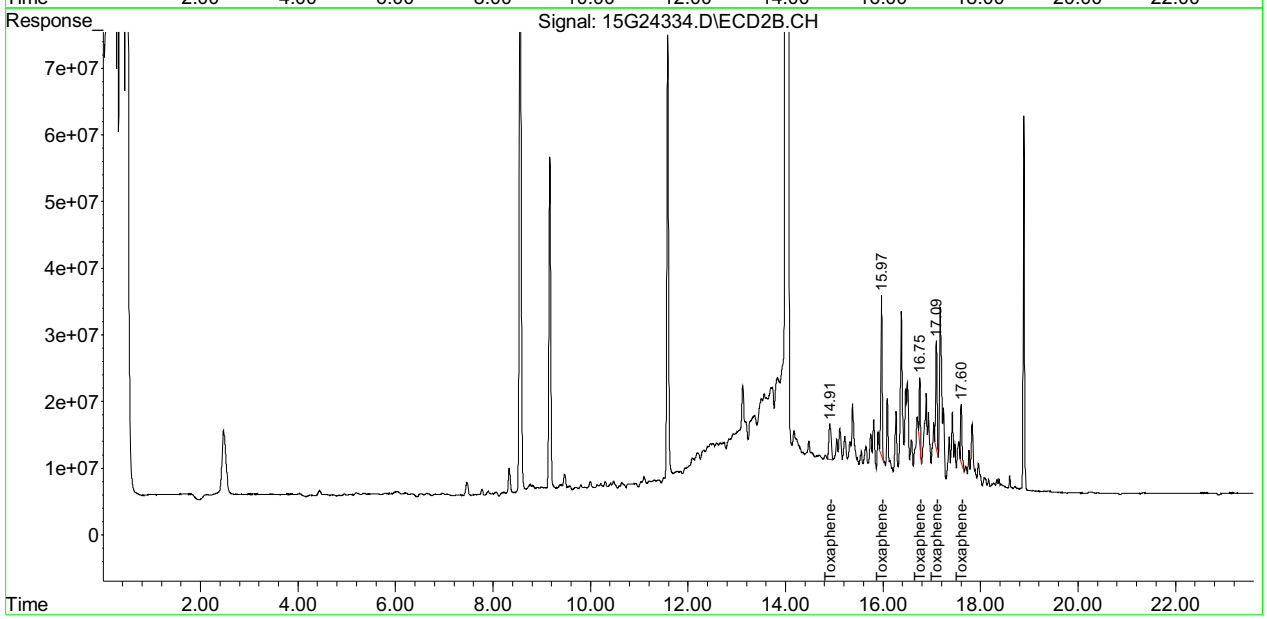
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\120810\
Data File : 15G24334.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Dec 2010 3:54 (#1); 09 Dec 2010 4:22 (#2)
Operator : ECL
Sample : WG350553-04 TOX LCS
Misc : 7,1 SOIL
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Dec 09 15:27:03 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Thu Dec 09 11:39:15 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





2.2 General Chemistry Data

2.2.1 Percent Solids Data

2.2.1.1 Raw Data

LABORATORY REPORT

L10120103

12/08/10 13:34

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: CT Laboratories
1230 Lange Court

Baraboo, WI 53913
Attention: Patrick Letterer

Project Number: 2694.006
Project: CT Labs
Site: CT LABS

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
DLASS-002-0001-SO	L10120103-01	D2216-90	1	03-DEC-10
DLASS-022-0001-SO	L10120103-02	D2216-90	1	03-DEC-10
DLASS-022-0003-SO	L10120103-03	D2216-90	1	03-DEC-10
DLASS-002-0003-SO	L10120103-04	D2216-90	1	03-DEC-10

Report Number: **L10120103**

Report Date : **December 8, 2010**

Sample Number:	L10120103-01	PrePrep Method:	NONE	Instrument:	BAL001
Client ID:	DLASS-002-0001-SO	Prep Method:	D2216-90	Prep Date:	12/07/2010 09:39
Matrix:	Soil	Analytical Method:	D2216-90	Cal Date:	
Workgroup Number:	WG350580	Analyst:	JDH	Run Date:	12/07/2010 09:39
Collect Date:	11/10/2010 10:15	Dilution:	1	File ID:	B1.350580-0101
Sample Tag:	01	Units:	weight %		

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Percent Solids	10-02-6	97.9		1.00	1.00

Report Number: **L10120103**

Report Date : **December 8, 2010**

Sample Number:	L10120103-02	PrePrep Method:	NONE	Instrument:	BAL001
Client ID:	DLASS-022-0001-SO	Prep Method:	D2216-90	Prep Date:	12/07/2010 09:39
Matrix:	Soil	Analytical Method:	D2216-90	Cal Date:	
Workgroup Number:	WG350580	Analyst:	JDH	Run Date:	12/07/2010 09:39
Collect Date:	11/09/2010 12:20	Dilution:	1	File ID:	B1.350580-0102
Sample Tag:	01	Units:	weight %		

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Percent Solids	10-02-6	98.3		1.00	1.00

Report Number: **L10120103**

Report Date : **December 8, 2010**

Sample Number:	L10120103-03	PrePrep Method:	NONE	Instrument:	BAL001
Client ID:	DLASS-022-0003-SO	Prep Method:	D2216-90	Prep Date:	12/07/2010 09:39
Matrix:	Soil	Analytical Method:	D2216-90	Cal Date:	
Workgroup Number:	WG350580	Analyst:	JDH	Run Date:	12/07/2010 09:39
Collect Date:	11/09/2010 12:30	Dilution:	1	File ID:	B1.350580-0103
Sample Tag:	01	Units:	weight %		

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Percent Solids	10-02-6	98.5		1.00	1.00

Report Number: **L10120103**

Report Date : **December 8, 2010**

Sample Number:	L10120103-04	PrePrep Method:	NONE	Instrument:	BAL001
Client ID:	DLASS-002-0003-SO	Prep Method:	D2216-90	Prep Date:	12/07/2010 09:39
Matrix:	Soil	Analytical Method:	D2216-90	Cal Date:	
Workgroup Number:	WG350580	Analyst:	JDH	Run Date:	12/07/2010 09:39
Collect Date:	11/10/2010 10:25	Dilution:	1	File ID:	B1.350580-0104
Sample Tag:	01	Units:	weight %		

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Percent Solids	10-02-6	98.5		1.00	1.00

Example Percent Solids Calculations

1.0 Calculating the percent solids of a sample.

$$\%Solids = \frac{WT3 - WT1}{WT2 - WT1} \times F$$

Where:	
WT1 = Weight, in grams, of the empty container	1.30 g
WT2 = Weight, in grams, of the container and wet sample	21.274 g
WT3 = Weight, in grams, of the container and dried sample	5.21 g
F = Factor to get units as percent weight	100
%Solids = Percent solids present in sample.	19.58%

2.0 Calculating the percent moisture of a sample.

% Moisture = 100 - % Solids from 1.0 calculation

Microbac Laboratories Inc.

PERCENT SOLIDS

Workgroup (AAB#):WG350580 Analyst:JDH ADT(on):12/06/2010 16:09
Method:D2216-90 Instrument:BAL001 ADT(off):12/07/2010 09:39
SOP:K0003 Rev:10

SAMPLE NUMBER	EMPTY PAN WT 1	WET WT 2	DRY WT 3A	DRY WT 3B	DRY WT 3C	PERCENT SOLID	PERCENT MOISTURE
L10120103-01	1.3	9.48	9.31			97.92	
L10120103-02	1.32	15	14.77			98.32	
L10120103-03	1.33	12.11	11.95			98.52	
L10120103-04	1.31	11.76	11.6			98.47	
WG350580-01	1.3	9.48	9.31			97.92	2.078
WG350580-02	1.31	10.05	9.87			97.94	2.059

Analyst:

PERCENT_SOLIDS - Modified 04/24/2008
PDF ID: 1858829
Report generated: 12/07/2010 09:40

3.0 Attachments

Microbac Laboratories Inc.
Analyst Listing
December 15, 2010

ADC – ANTHONY D. CANTER	AJF – AMANDA J. FICKIESEN	ALB – ANNIE L. BROWN
ALV – AMY L. VALENTINE	AML – TONY M. LONG	AZH – AFTER HOURS
BLG – BRENDA L. GREENWALT	BRG – BRENDA R. GREGORY	CAA – CASSIE A. AUGENSTEIN
CAF – CHERYL A. FLOWERS	CEB – CHAD E. BARNES	CLC – CHRYS L. CRAWFORD
CLS – CARA L. STRICKLER	CLW – CHARISSA L. WINTERS	CPD – CHAD P. DAVIS
CSH – CHRIS S. HILL	DDE – DEBRA D. ELLIOTT	DEL – DON E. LIGHTFRITZ
DEV – DAVID E. VANDENBERG	DGB – DOUGLAS G. BUTCHER	DIH – DEANNA I. HESSON
DLB – DAVID L. BUMGARNER	DLP – DOROTHY L. PAYNE	DLR – DIANNA L. RAUCH
ECL – ERIC C. LAWSON	EDA – ERIN D. AGEE	ERP – ERIN R. PORTER
FJB – FRANCES J. BOLDEN	HAV – HEMA VILASAGAR	HJR – HOLLY J. REED
JAL – JOHN A. LENT	JBK – JEREMY B. KINNEY	JDH – JUSTIN D. HESSON
JKT – JANE K. THOMPSON	JWR – JOHN W. RICHARDS	JWS – JACK W. SHEAVES
JYH – JI Y. HU	KEB – KATIE E. BARNES	KHR – KIM H. RHODES
KRA – KATHY R. ALBERTSON	LKN – LINDA K. NEDEFF	LSB – LESLIE S. BUCINA
MDA – MIKE D. ALBERTSON	MDC – MIKE D. COCHRAN	MES – MARY E. SCHILLING
MMB – MAREN M. BEERY	MRT – MICHELLE R. TAYLOR	MSW – MATT S. WILSON
PDM – PIERCE D. MORRIS	PWD – PAUL W. DENT	RAH – ROY A. HALSTEAD
RB – BOB BUCHANAN	REK – BOB E. KYER	RLK – ROBIN L. KLINGER
RWC – RODNEY W. CAMPBELL	SLM – STEPHANIE L. MOSSBURG	SLP – SHERI L. PFALZGRAF
TIP – TAE I. PARRISH	TMB – TIFFANY M. BAILEY	TMM – TAMMY M. MORRIS
VC – VICKI COLLIER	WJB – WILL J. BEASLEY	WTD – WADE T. DELONG

Microbac Laboratories Inc.
List of Valid Qualifiers
December 15, 2010

Qualkey: DOD

Qualifier	Description
*	Surrogate or spike compound out of range
+	Correlation coefficient for the MSA is less than 0.995
<	Result is less than the associated numerical value.
>	Result is greater than the associated numerical value.
A	See the report narrative
B	The reported result is associated with a contaminated method blank.
B1	Target analyte detected in method blank at or above the method reporting limit
B3	Target analyte detected in calibration blank at or above the method reporting limit
B4	The BOD unseeded dilution water blank exceeded 0.2 mg/L
C	Confirmed by GC/MS
CG	Confluent growth
DL	Surrogate or spike compound was diluted out
E	Estimated concentration due to sample matrix interference
EDL	Elevated sample reporting limits, presence of non-target analytes
EMPC	Estimated Maximum Possible Concentration
F, S	Estimated result below quantitation limit; method of standard additions(MSA)
FL	Free Liquid
H1	Sample analysis performed past holding time.
I	Semiquantitative result (out of instrument calibration range)
J	Estimated concentration; sample matrix interference.
J	Estimated value ; the analyte concentration was greater than the highest standard
J	Estimated value ; the analyte concentration was less than the low standard (LOQ)
J	The reported result is an estimated value.
J,B	Analyte detected in both the method blank and sample above the MDL.
J,P	Estimate; columns don't agree to within 40%
J,S	Estimated concentration; analyzed by method of standard addition (MSA)
L	Sample reporting limits elevated due to matrix interference
L1	The associated blank spike (LCS) recovery was above the laboratory acceptance limits.
L2	The associated blank spike (LCS) recovery was below the laboratory acceptance limits.
M	Matrix effect; the concentration is an estimate due to matrix effect.
N	Nontarget analyte; the analyte is a tentativlely identified compound (TIC) by GC/MS
NA	Not applicable
ND	Not detected at or above the reporting limit (RL).
ND, L	Not detected; sample reporting limit (RL) elevated due to interference
ND, S	Not detected; analyzed by method of standard addition (MSA)
NF	Not found by library search
NFL	No free liquid
NI	Non-ignitable
NR	Analyte is not required to be analyzed
NS	Not spiked
P	Concentrations >40% difference between the two GC columns
Q	One or more quality control criteria failed. See narrative.
QNS	Quantity of sample not sufficient to perform analysis
RA	Reanalysis confirms reported results
RE	Reanalysis confirms sample matrix interference
S	Analyzed by method of standard addition (MSA)
SMI	Sample matrix interference on surrogate
SP	Reported results are for spike compounds only
TIC	Library Search Compound
TNTC	Too numerous to count
U	Analyte was not detected. The concentration is below the reported LOD.
UJ	Undetected; the analyte was analyzed for, but not detected.
UQ	Undetected; the analyte was analyzed for, but not detected.
W	Post-digestion spike for furnace AA out of control limits
X	Exceeds regulatory limit
X, S	Exceeds regulatory limit; method of standard additions (MSA)
Z	Cannot be resolved from isomer - see below

*****Special Notes for Organic Analytes**

Qualkey: DOD

1. Acrolein and acrylonitrile by method 624 are semi-quantitative screens only.
2. 1,2-Diphenylhydrazine is unstable and is reported as azobenzene.
3. N-nitrosodiphenylamine cannot be separated from diphenylamine.
4. 3-Methylphenol and 4-Methylphenol are unresolvable compounds.
5. m-Xylene and p-Xylene are unresolvable compounds.
6. The reporting limits for Appendix II/IX compounds by method 8270 are based on EPA estimated PQLs referenced in 40 CFR Part 264, Appendix IX. They are not always achievable for every compound an are matrix dependent.

CT LABORATORIES

delivering more than data from your environmental analyses

1230 Lange Court • Baraboo, WI 53913 • 608-356-2760

www.ctlaboratories.com

Upon Receipt of Samples, please verify that samples were received in acceptable condition then sign this form and fax to (608)356-2766 or email to the project manager. **Sample temperature, upon receipt, must be recorded on this document unless thermal preservation is not a method requirement.**

Ship to: **Microbac**
158 Starlight Drive
Marietta, OH 45750

Return Invoice and Results to:

CT Laboratories
Pat Letterer
1230 Lange Court
Baraboo WI 53913
pletterer@ctlaboratories.com

SEE PAGE 2 FOR INFORMATION!

PURCHASE ORDER # 82424 MICROBAC ***The PO# must appear on all invoice and reports!***

Date Due: 2 WEEK TAT ***RUSH TURNAROUND NEEDED? Y or (N) (Circle One)***

Report results as EDD? N (Y) (Circle one and indicate type: ADR A1 & A3) Data Deliverable Package LEVEL: LEVEL IV

CTLabs ID#	Sample Date/Time	Matrix	Sample Description	Analyses / Method	Cost
870189	11/10/2010 1015	SOIL	DLASS-002-0001-SO	PESTICIDES SW8081	
870194	11/9/2010 1220	SOIL	DLASS-022-0001-SO	PESTICIDES	
870195	11/9/2010 1230	SOIL	DLASS-022-0003-SO	PESTICIDES	
~~870201~~	~~11/9/2010 1525~~	~~SOIL~~	~~DLASS-014-0001-SO~~	~~PESTICIDES~~	
~~870203~~	~~11/9/2010 1535~~	~~SOIL~~	~~DLASS-014-0003-SO~~	~~PESTICIDES~~	
870212	11/10/2010 1025	SOIL	DLASS-002-0003-SO	PESTICIDES	

@ RMC Already Shipped.

Relinquished by: RMC
Date/Time: 12-2-10, 1425

Received by:

Microbac OVD
Received: 12/03/2010 11:07
By: BRENDA GREENWALT

Brenda Greenwalt

221000010775

Receipt Temperature (C)

COMMENTS:

REPORT ALL SOLIDS ON A DRY WEIGHT BASIS UNLESS OTHERWISE INDICATED

Per the client the sample Hold time does not begin until grinding and homogenization has been completed. Hold times start as follows

870201 & 870203: 11/17/2010 @ 17:00

870189, 870194, 870195, 870212 : Hold Date of 12-02-2010

Samples are to be analyzed following QSM v. 4.1

COOLER INSPECTION

Received: 12/03/2010 11:07
Delivery Method: FedEx
Opened By: Brenda Greenwalt
Comments:

Login(s): L10120103|

Cooler(s)

Cooler #	Temp Gun	Temp	Tracking #	COC #	Comments
0015338	H	1.0	345750405100000245123003479620 17		

1	Yes	Were shipping coolers sealed?
2	Yes	Were custody seals intact?
3	Yes	Were cooler temperatures in range of 0-6?
4	Yes	Was ice present?
5	Yes	Were COC's received/information complete/signed and dated?
6	Yes	Were sample containers and labels intact and match COC?
7	Yes	Were the correct containers and volumes received?
8	Yes	Were samples received within EPA hold times?
9	NA	Were correct perservatives used? (water only)
10	NA	Were pH ranges acceptable? (voa's excluded)
11	NA	Were VOA samples free of headspace (less than 6mm)?

Discrepancies:

Microbac - Ohio Valley Division
158 Starlite Drive
Marietta, OH 45750
Tel: (740)373-4071 Fax: (740)373-4835

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L10120103
Account: 2694
Project: 2694.006
Samples: 4
Due Date: 14-DEC-2010

Samplenum	Container ID	Products
L10120103-01	772940	PCT-S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	03-DEC-2010 16:29	RLK	
2	PREP	W1	EXT	06-DEC-2010 11:50	CSH	JKT
3	STORE	WET	W1	13-DEC-2010 11:14	RLK	JDH

Samplenum	Container ID	Products
L10120103-02	772941	PCT-S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	03-DEC-2010 16:29	RLK	
2	PREP	W1	EXT	06-DEC-2010 11:50	CSH	JKT
3	STORE	WET	A2	13-DEC-2010 11:16	RLK	JDH

Samplenum	Container ID	Products
L10120103-03	772942	PCT-S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	03-DEC-2010 16:29	RLK	
2	PREP	W1	EXT	06-DEC-2010 11:50	CSH	JKT
3	STORE	WET	A2	13-DEC-2010 11:16	RLK	JDH

Samplenum	Container ID	Products
L10120103-04	772943	PCT-S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	03-DEC-2010 16:29	RLK	
2	PREP	W1	EXT	06-DEC-2010 11:50	CSH	JKT
3	STORE	WET	A2	13-DEC-2010 11:16	RLK	JDH

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

158 Starlite Drive, Marietta, OH 45750 • T:740-373-4071 • F:740-373-4835 • http://www.microbac.com

Laboratory Report Number: L10110845

Client: Patrick Letterer, 1230 Lange Court, Baraboo, WI, 53913

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories.

Review and compilation of your report was completed by Microbac's Sales and Service Team. If you have questions, comments or require further assistance regarding this report, please contact your team member noted in the reviewed box below at 800-373-4071. Team member e-mail addresses also appear here for your convenience.

Kathy Albertson	*Team Chemist/Data Specialist*	Kathy.Albertson@microbac.com
Stephanie Mossburg	*Team Chemist/Data Specialist*	Stephanie.Mossburg@microbac.com
Tony Long	*Team Chemist/Data Specialist*	Tony.Long@microbac.com
Amanda Fickiesen	*Client Services Specialist*	Amanda.Fickiesen@microbac.com
Annie Brown	*Client Services Specialist*	Annie.Brown@microbac.com

This report was reviewed on December 09, 2010.

Stephanie Mossburg - Team Chemist/Data Specialist

I certify that all test results meet all of the requirements of the accrediting authority listed below. All results for soil samples are reported on a 'dry-weight' basis unless specified otherwise. Analytical results for water and wastes are reported on a 'as received' basis unless specified otherwise. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories. The reported results are related only to the samples analyzed as received.

This report was certified on December 09, 2010.

David Vandenberg - Managing Director

State of origin: Wisconsin
Accrediting authority: Department of Natural Resources ID:998202040
QAPP: DOD Ver 4.1
This report contains a total of 124 pages.

Look closer. Go further. Do more.

Microbac REPORT L10110845
PREPARED FOR CT Laboratories
WORK ID:

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1.0 Introduction

LABORATORY REPORT

L10110845

12/09/10 16:34

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: CT Laboratories
1230 Lange Court

Baraboo, WI 53913
Attention: Patrick Letterer

Project Number: 2694.006
Project: CT Labs
Site: CT LABS

Sample Summary

Client ID	Lab ID	Date Collected	Date Received
DLASS-014-0001-SO	L10110845-01	11/09/2010 15:25	11/24/2010
DLASS-014-0003-SO	L10110845-02	11/09/2010 15:35	11/24/2010

L1_A_PROD_COVER - Modified 02/06/2008
PDF File ID: 1857126
Report generated: 12/09/2010 16:34

2.0 Full Sample Data Package

2.1 Semivolatiles Data

2.1.1 Pesticide GC Data (8081)

2.1.1.1 Summary Data

Microbac Laboratories Inc.
GC PESTICIDES

Microbac Login No: L10110845

METHOD

Preparation: SW- 846 3550B(Soils)/3510C(Waters)/3580A (Waste dilution)

Analysis: SW-846 8081

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: For all compounds which yielded a %RSD greater than 20 %, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Continuing Calibration: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Labortory Control Sample: All acceptance criteria were met.

Matrix Spikes: The MS/MSD results were not associated with this sample delivery group.

SAMPLES

Surrogates: Samples 01 and 02 yielded % recoveries for 2,4,5,6-tetrachloro-m-xylene that were below the acceptance limit. All other acceptance criteria were met.

Endrin/DDT Breakdown: All acceptance criteria were met.

Samples: For all samples which yielded results with an RPD of greater than 40% between the primary and confirmation column the appropriate flag was applied. All acceptance criteria were met.

Manual Integration Reason Codes

Microbac laboratory management has identified four general cases with valid reasons supporting the use of manual integration techniques.

Reason #1: Data System Fails to Select Correct Peak
In some cases the chromatography system selects and integrates the ”wrong peak”. In this case the analyst must correct the selection and force the system to integrate the proper peak. Other times the system may miss the peak completely.

Reason #2: Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak.
This phenomena is common at low concentrations where the signal:noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low area counts for the target compound.

Reason #3: Improperly Integrated Isomers and/or coeluting compounds.
This system often fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations are wrong, and they must be corrected by manual integration. Prime examples are benzo(k)fluoranthene and benzo(b)fluoranthene which are often unresolved and integrated improperly when both are present at low concentrations in standards or samples.

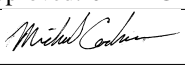
Reason #4: System Establishes Incorrect Baseline
There are numerous situations in chromatography where the system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and should be corrected via manual procedures.

Reason #5: Miscellaneous
Other situations involving integration errors may require in-depth review and technical judgment. These cases should be brought to the attention of the laboratory management. If the form of manual integration is not clearly covered by these four cases, then review and approval by the Laboratory Director or the QA/QC Supervisor will be required.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: ECL

Approved: 02-DEC-10



LABORATORY REPORT

L10110845

12/09/10 16:34

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: CT Laboratories
1230 Lange Court

Baraboo, WI 53913
Attention: Patrick Letterer

Project Number: 2694.006
Project: CT Labs
Site: CT LABS

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
DLASS-014-0001-SO	L10110845-01	8081A	1	24-NOV-10
DLASS-014-0003-SO	L10110845-02	8081A	1	24-NOV-10

Report Number: **L10110845**
Report Date : **December 9, 2010**

Sample Number: **L10110845-01**
Client ID: **DLASS-014-0001-SO**
Matrix: **Soil**
Workgroup Number: **WG350079**
Collect Date: **11/09/2010 15:25**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3550B**
Analytical Method: **8081A**
Analyst: **ECL**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP15**
Prep Date: **11/30/2010 10:45**
Cal Date: **09/27/2010 22:14**
Run Date: **12/01/2010 18:14**
File ID: **15G24274.F**
Percent Solid: **77.5**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
4,4'-DDD	72-54-8		UQ	2.10	0.420
4,4'-DDE	72-55-9		UQ	2.10	0.420
4,4'-DDT	50-29-3		UQ	2.10	0.420
Aldrin	309-00-2		UQ	2.10	0.420
alpha Chlordane	5103-71-9		UQ	2.10	0.420
alpha-BHC	319-84-6		UQ	2.10	0.420
beta-BHC	319-85-7		UQ	2.10	0.420
delta-BHC	319-86-8		UQ	2.10	0.420
Dieldrin	60-57-1		UQ	2.10	0.420
Endosulfan I	959-98-8		UQ	2.10	0.420
Endosulfan II	33213-65-9		UQ	2.10	0.420
Endosulfan sulfate	1031-07-8		UQ	2.10	0.420
Endrin	72-20-8		UQ	2.10	0.420
Endrin aldehyde	7421-93-4		UQ	2.10	0.420
Endrin ketone	53494-70-5		UQ	2.10	0.420
gamma Chlordane	5103-74-2		UQ	2.10	0.420
gamma-BHC (Lindane)	58-89-9		UQ	2.10	0.420
Heptachlor	76-44-8		UQ	2.10	0.420
Heptachlor epoxide	1024-57-3		UQ	2.10	0.420
Methoxychlor	72-43-5		UQ	2.10	0.420
Toxaphene	8001-35-2		UQ	42.0	21.3

Surrogate	% Recovery	Lower	Upper	Qual
2,4,5,6-Tetrachloro-m-xylene	67.9	70	125	*
Decachlorobiphenyl	69.1	55	130	

UQ Undetected; the analyte was analyzed for, but not detected.
* Surrogate or spike compound out of range

Report Number: **L10110845**
Report Date : **December 9, 2010**

Sample Number:	L10110845-02	PrePrep Method:	NONE	Instrument:	HP15
Client ID:	DLASS-014-0003-SO	Prep Method:	3550B	Prep Date:	11/30/2010 10:45
Matrix:	Soil	Analytical Method:	8081A	Cal Date:	09/27/2010 22:14
Workgroup Number:	WG350079	Analyst:	ECL	Run Date:	12/01/2010 18:42
Collect Date:	11/09/2010 15:35	Dilution:	1	File ID:	15G24275.F
Sample Tag:	01	Units:	ug/kg	Percent Solid:	68.6

Analyte	CAS. Number	Result	Qual	LOQ	LOD
4,4'-DDD	72-54-8		UQ	2.38	0.475
4,4'-DDE	72-55-9		UQ	2.38	0.475
4,4'-DDT	50-29-3		UQ	2.38	0.475
Aldrin	309-00-2		UQ	2.38	0.475
alpha Chlordane	5103-71-9		UQ	2.38	0.475
alpha-BHC	319-84-6		UQ	2.38	0.475
beta-BHC	319-85-7		UQ	2.38	0.475
delta-BHC	319-86-8		UQ	2.38	0.475
Dieldrin	60-57-1		UQ	2.38	0.475
Endosulfan I	959-98-8		UQ	2.38	0.475
Endosulfan II	33213-65-9		UQ	2.38	0.475
Endosulfan sulfate	1031-07-8		UQ	2.38	0.475
Endrin	72-20-8		UQ	2.38	0.475
Endrin aldehyde	7421-93-4		UQ	2.38	0.475
Endrin ketone	53494-70-5		UQ	2.38	0.475
gamma Chlordane	5103-74-2		UQ	2.38	0.475
gamma-BHC (Lindane)	58-89-9		UQ	2.38	0.475
Heptachlor	76-44-8		UQ	2.38	0.475
Heptachlor epoxide	1024-57-3		UQ	2.38	0.475
Methoxychlor	72-43-5		UQ	2.38	0.475
Toxaphene	8001-35-2		UQ	47.5	24.0

Surrogate	% Recovery	Lower	Upper	Qual
2,4,5,6-Tetrachloro-m-xylene	54.9	70	125	*
Decachlorobiphenyl	61.6	55	130	

UQ Undetected; the analyte was analyzed for, but not detected.
* Surrogate or spike compound out of range

2.1.1.2 QC Summary Data

Example 8081 Calculations

1.0 Calculating the Response Factor (RF) from the initial calibration (ICAL) data:

$$RF = \frac{As}{Cs}$$

where:	Example:
A_s = Area of the compound being measured in the standard	10000
C_s = Concentration of the compound being measured (ng/mL)	100
	RF = 100

2.0 Calculating the concentration (C) of a compound in water using data from prep log and quantitation report:*

$$C = \frac{(A_x)(Vf)(D)}{(RF)(Vi)}$$

where:	Example:
A_x = Area of the compound begin measured	10000
Vf = Final volume of sample extract (mL). (prep log)	1
D = Dilution factor for sample as a multiplier (10X=10)	1
RF = Response factor from ICAL calculated above.	100
Vi = Initial volume of sample (mL). (prep log)	1000
	C(ug/L) = 0.1

3.0 Calculating the concentration (C) of a compound in soil using data from prep log and quantitation report:*

$$C = \frac{(A_x)(Vf)(D)}{(RF)(Wi)}$$

where:	Example:
A_x = Area of the compound begin measured	10000
Vf = Final volume of sample extract (mL). (prep log)	1
D = Dilution factor for sample as a multiplier (10X=10)	1
RF = Response factor from ICAL calculated above.	100
Wi = Initial weight of sample (g).	30
	C(ug/kg) = 3.333333

* Concentrations appearing on instrument quantitation reports are on-column results and do not take into account initial volume, final volume and dilution factor.

Microbac Laboratories Inc.
Sample Extract Log

Workgroup: WG349954
Analyst: CPD
Spike Analyst: CPD
Method: 3550B
Run Date: 11/30/2010 10:45
SOP: EXP02 Revison 15
Spike Witness: RAH
Surr Solution: STD42482

Hexane Lot #: COA14969
Purified Lab Sand Lot #: COA14882
Na2SO4, Anhydrous,Powder Lot #: COA14768
Sodium Sulfate,Anhydrous,Granular (Lot #: COA14988
Florisil Disposable Column Lot #: COA14997
94:6 Hexane:Ether Lot #: RGT15506
50:50 Hexane:Ether Lot #: RGT15509

	SAMPLE #	Type	Reference	pH	Prod	Init Amnt	Surr Amnt	Spike Amnt	Spike Sol	Final Vol	Color
1	L10110841-01	SAMP			8081	30.44 g	.2 mL			10 mL	Transparent
2	L10110845-01	SAMP			8081	30.42 g	.2 mL			10 mL	Transparent
3	L10110845-02	SAMP			8081	30.38 g	.2 mL			10 mL	Transparent
4	L10110846-01	SAMP			8081	30.16 g	.2 mL			10 mL	Transparent
5	L10110846-02	SAMP			8081	30.7 g	.2 mL			10 mL	Transparent
6	L10110846-03	SAMP			8081	30.07 g	.2 mL			10 mL	Transparent
7	L10110846-04	SAMP			8081	25.92 g	.2 mL			10 mL	Transparent
8	WG349954-01	REF	L10110846-04		8081	25.92 g	.2 mL			10 mL	Transparent
9	WG349954-02	BLANK			8081	30 g	.2 mL			10 mL	Transparent
10	WG349954-03	LCS			8081	30 g	.2 mL	.25 mL	STD39617	10 mL	Transparent
11	WG349954-04	LCS_TOX			8081	30 g	.2 mL	.1 mL	STD40740	10 mL	Transparent
12	WG349954-05	MS	L10110846-04		8081	26.58 g	.2 mL	.25 mL	STD39617	10 mL	Transparent
13	WG349954-06	MSD	L10110846-04		8081	25.64 g	.2 mL	.25 mL	STD39617	10 mL	Transparent

Clean-ups	
Florisil	3620B

Analyst:

Reviewer:

EXTRACT - Modified 10/22/2008
PDF ID: 1852920
Report generated: 11/30/2010 15:22

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP15 Dataset: 092710
Analyst1: ECL Analyst2: NA
Method: 8081 SOP: GCS09 Rev: 12

Maintenance Log ID: 34722 Syringe Filter Lot#:

Column 1 ID: RTX-CLP Column 2 ID: RTX-CLP2

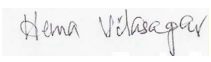
Workgroups:

CCV Std: STD40207 LCS STD: STD39880
Internal STD: NA Surrogate STD: STD39847 Calibration STD

Comments:

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	15G23690.F	ENDRIN/DDT	1	1	STD39983	09/27/10 12:35
2	15G23690.R	ENDRIN/DDT	1	1	STD39983	09/27/10 13:04
3	15G23691.F	TOX 10 PPM	1	1	STD40827	09/27/10 14:11
4	15G23691.R	TOX 10 PPM	1	1	STD40827	09/27/10 14:39
5	15G23692.F	CHLOR 10 PPM	1	1	STD40825	09/27/10 14:39
6	15G23692.R	CHLOR 10 PPM	1	1	STD40825	09/27/10 15:07
7	15G23693.F	TOX 10 PPM	1	1	STD40827	09/27/10 15:07
8	15G23693.R	TOX 10 PPM	1	1	STD40827	09/27/10 15:36
9	15G23694.F	CHLOR 10 PPM	1	1	STD40825	09/27/10 15:36
10	15G23694.R	CHLOR 10 PPM	1	1	STD40825	09/27/10 16:04
11	15G23695.F	WG343905-01 ENDRIN/DDT	1	1	STD39983	09/27/10 16:04
12	15G23695.R	WG343905-01 ENDRIN/DDT	1	1	STD39983	09/27/10 16:34
13	15G23696.F	WG343903-01 TOX ICAL 2000 PPB	1	1	STD40827	09/27/10 16:34
14	15G23696.R	WG343903-01 TOX ICAL 2000 PPB	1	1	STD40827	09/27/10 17:02
15	15G23697.F	WG343903-02 TOX ICAL 1000 PPB	1	1	STD40827	09/27/10 17:02
16	15G23697.R	WG343903-02 TOX ICAL 1000 PPB	1	1	STD40827	09/27/10 17:30
17	15G23698.F	WG343903-03 TOX ICAL 500 PPB	1	1	STD40827	09/27/10 17:30
18	15G23698.R	WG343903-03 TOX ICAL 500 PPB	1	1	STD40827	09/27/10 17:59
19	15G23699.F	WG343903-04 TOX ICAL 200 PPB	1	1	STD40827	09/27/10 17:59
20	15G23699.R	WG343903-04 TOX ICAL 200 PPB	1	1	STD40827	09/27/10 18:27
21	15G23700.F	WG343903-05 TOX ICAL 100 PPB	1	1	STD40827	09/27/10 18:27
22	15G23700.R	WG343903-05 TOX ICAL 100 PPB	1	1	STD40827	09/27/10 18:55
23	15G23701.F	WG343903-06 TOX ALT 500 PPB	1	1	STD40828	09/27/10 18:55
24	15G23701.R	WG343903-06 TOX ALT 500 PPB	1	1	STD40828	09/27/10 19:24
25	15G23702.F	WG343902-01 PEST ICAL 200 PPB	1	1	STD40207	09/27/10 19:24
26	15G23702.R	WG343902-01 PEST ICAL 200 PPB	1	1	STD40207	09/27/10 19:52
27	15G23703.F	WG343902-02 PEST ICAL 100 PPB	1	1	STD40207	09/27/10 19:52
28	15G23703.R	WG343902-02 PEST ICAL 100 PPB	1	1	STD40207	09/27/10 20:21
29	15G23704.F	WG343902-03 PEST ICAL 20 PPB	1	1	STD40207	09/27/10 20:21
30	15G23704.R	WG343902-03 PEST ICAL 20 PPB	1	1	STD40207	09/27/10 20:49
31	15G23705.F	WG343902-04 PEST ICAL 10 PPB	1	1	STD40207	09/27/10 20:49
32	15G23705.R	WG343902-04 PEST ICAL 10 PPB	1	1	STD40207	09/27/10 21:18
33	15G23706.F	WG343902-05 PEST ICAL 4 PPB	1	1	STD40207	09/27/10 21:18
34	15G23706.R	WG343902-05 PEST ICAL 4 PPB	1	1	STD40207	09/27/10 21:46

Page: 1 Approved: 01-OCT-10



Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP15 Dataset: 092710
Analyst1: ECL Analyst2: NA
Method: 8081 SOP: GCS09 Rev: 12

Maintenance Log ID: 34722 Syringe Filter Lot#:

Column 1 ID: RTX-CLP Column 2 ID: RTX-CLP2

Workgroups:

CCV Std: STD40207 LCS STD: STD39880
Internal STD: NA Surrogate STD: STD39847

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
35	15G23707.F	WG343902-06 PEST ICAL 1 PPB	1	1	STD40207	09/27/10 21:46
36	15G23707.R	WG343902-06 PEST ICAL 1 PPB	1	1	STD40207	09/27/10 22:14
37	15G23708.F	WG343902-07 PEST ALT 20 PPB	1	1	STD38730	09/27/10 22:14
38	15G23708.R	WG343902-07 PEST ALT 20 PPB	1	1	STD38730	09/27/10 22:43
39	15G23709.F	WG343904-01 CHLOR ICAL 2000 PPB	1	1	STD40825	09/27/10 22:43
40	15G23709.R	WG343904-01 CHLOR ICAL 2000 PPB	1	1	STD40825	09/27/10 23:11
41	15G23710.F	WG343904-02 CHLOR ICAL 1000 PPB	1	1	STD40825	09/27/10 23:11
42	15G23710.R	WG343904-02 CHLOR ICAL 1000 PPB	1	1	STD40825	09/27/10 23:39
43	15G23711.F	WG343904-03 CHLOR ICAL 500 PPB	1	1	STD40825	09/27/10 23:39
44	15G23711.R	WG343904-03 CHLOR ICAL 500 PPB	1	1	STD40825	09/28/10 00:08
45	15G23712.F	WG343904-04 CHLOR ICAL 200 PPB	1	1	STD40825	09/28/10 00:08
46	15G23712.R	WG343904-04 CHLOR ICAL 200 PPB	1	1	STD40825	09/28/10 00:36
47	15G23713.F	WG343904-05 CHLOR ICAL 100 PPB	1	1	STD40825	09/28/10 00:36
48	15G23713.R	WG343904-05 CHLOR ICAL 100 PPB	1	1	STD40825	09/28/10 01:04
49	15G23714.F	WG343521-01 BLANK	1	1		09/28/10 01:04
50	15G23714.R	WG343521-01 BLANK	1	1		09/28/10 01:33
51	15G23715.F	WG343521-02 LCS	1	1		09/28/10 01:33
52	15G23715.R	WG343521-02 LCS	1	1		09/28/10 02:01
53	15G23716.F	WG343521-03 LCS DUP	1	1		09/28/10 02:01
54	15G23716.R	WG343521-03 LCS DUP	1	1		09/28/10 02:29
55	15G23717.F	WG343521-04 TOX LCS	1	1		09/28/10 02:29
56	15G23717.R	WG343521-04 TOX LCS	1	1		09/28/10 02:58
57	15G23718.F	WG343521-05 CHLOR LCS	1	1		09/28/10 02:58
58	15G23718.R	WG343521-05 CHLOR LCS	1	1		09/28/10 03:26
59	15G23719.F	L10090495-06	1	1		09/28/10 03:26
60	15G23719.R	L10090495-06	1	1		09/28/10 03:54
61	15G23720.F	WG343905-02 ENDRIN/DDT	1	1	STD39983	09/28/10 03:54
62	15G23720.R	WG343905-02 ENDRIN/DDT	1	1	STD39983	09/28/10 04:23
63	15G23721.F	WG343905-03 PEST CCV 20 PPB	1	1	STD40207	09/28/10 04:23
64	15G23721.R	WG343905-03 PEST CCV 20 PPB	1	1	STD40207	09/28/10 04:51
65	15G23722.F	WG343906-01 TOX CCV 500 PPB	1	1	STD40827	09/28/10 04:51
66	15G23722.R	WG343906-01 TOX CCV 500 PPB	1	1	STD40827	09/28/10 05:19
67	15G23723.F	WG343907-01 CHLOR CCV 500 PPB	1	1	STD40827	09/28/10 05:19
68	15G23723.R	WG343907-01 CHLOR CCV 500 PPB	1	1	STD40827	09/28/10 05:48

Comments

Seq.	Rerun	Dil.	Reason	Analytes

Page: 2 Approved: 01-OCT-10

Hema Vilasagar

Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP15 Dataset: 120110
Analyst1: ECL Analyst2: NA
Method: 8081 SOP: GCS09 Rev: 12

Maintenance Log ID: Syringe Filter Lot#:

Column 1 ID: RTX-CLP Column 2 ID: RTX-CLP2
Workgroups:

CCV Std: STD40207 LCS STD: STD39617
Internal STD: NA Surrogate STD: STD42482 Calibration STD

Comments:

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	15G24266.F	WG350177-01 ENDRIN/DDT	1	1	STD39983	12/01/10 13:29
2	15G24266.R	WG350177-01 ENDRIN/DDT	1	1	STD39983	12/01/10 13:58
3	15G24267.F	WG350177-02 PEST CCV 20 PPB	1	1	STD40207	12/01/10 13:58
4	15G24267.R	WG350177-02 PEST CCV 20 PPB	1	1	STD40207	12/01/10 14:26
5	15G24268.F	WG350178-01 TOX CCV 500 PPB	1	1	STD40827	12/01/10 15:24
6	15G24268.R	WG350178-01 TOX CCV 500 PPB	1	1	STD40827	12/01/10 15:52
7	15G24269.F	ELAB PEST SPIKE 20 PPB	1	1	STD42746	12/01/10 15:52
8	15G24269.R	ELAB PEST SPIKE 20 PPB	1	1	STD42746	12/01/10 16:21
9	15G24270.F	WG349954-02 BLANK	7	1	SOIL	12/01/10 16:21
10	15G24270.R	WG349954-02 BLANK	7	1	SOIL	12/01/10 16:49
11	15G24271.F	WG349954-03 LCS	7	1	SOIL	12/01/10 16:49
12	15G24271.R	WG349954-03 LCS	7	1	SOIL	12/01/10 17:17
13	15G24272.F	WG349954-04 TOX LCS	7	1	SOIL	12/01/10 17:17
14	15G24272.R	WG349954-04 TOX LCS	7	1	SOIL	12/01/10 17:45
15	15G24273.F	L10110841-01	7	1	SOIL	12/01/10 17:45
16	15G24273.R	L10110841-01	7	1	SOIL	12/01/10 18:14
17	15G24274.F	L10110845-01	7	1	SOIL	12/01/10 18:14
18	15G24274.R	L10110845-01	7	1	SOIL	12/01/10 18:42
19	15G24275.F	L10110845-02	7	1	SOIL	12/01/10 18:42
20	15G24275.R	L10110845-02	7	1	SOIL	12/01/10 19:10
21	15G24276.F	L10110846-01	7	1	SOIL	12/01/10 19:10
22	15G24276.R	L10110846-01	7	1	SOIL	12/01/10 19:39
23	15G24277.F	L10110846-02	7	1	SOIL	12/01/10 19:39
24	15G24277.R	L10110846-02	7	1	SOIL	12/01/10 20:07
25	15G24278.F	L10110846-03	7	1	SOIL	12/01/10 20:07
26	15G24278.R	L10110846-03	7	1	SOIL	12/01/10 20:35
27	15G24279.F	WG350177-03 PEST CCV 10 PPB	1	1	STD40207	12/01/10 20:35
28	15G24279.R	WG350177-03 PEST CCV 10 PPB	1	1	STD40207	12/01/10 21:03
29	15G24280.F	WG350178-02 TOX CCV 200 PPB	1	1	STD40827	12/01/10 21:03
30	15G24280.R	WG350178-02 TOX CCV 200 PPB	1	1	STD40827	12/01/10 21:32
31	15G24281.F	L10110846-04 REF	7	1	SOIL	12/01/10 21:32
32	15G24281.R	L10110846-04 REF	7	1	SOIL	12/01/10 22:00
33	15G24282.F	WG349954-05 L10110846-04 MS	7	1	SOIL	12/01/10 22:00
34	15G24282.R	WG349954-05 L10110846-04 MS	7	1	SOIL	12/01/10 22:28

Page: 1 Approved: 02-DEC-10

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP15 Dataset: 120110
Analyst1: ECL Analyst2: NA
Method: 8081 SOP: GCS09 Rev: 12

Maintenance Log ID: Syringe Filter Lot#:

Column 1 ID: RTX-CLP Column 2 ID: RTX-CLP2
Workgroups:

CCV Std: STD40207 LCS STD: STD39617
Internal STD: NA Surrogate STD: STD42482

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
35	15G24283.F	WG349954-06 L10110846-04 MSD	7	1	SOIL	12/01/10 22:28
36	15G24283.R	WG349954-06 L10110846-04 MSD	7	1	SOIL	12/01/10 22:57
37	15G24284.F	HEXANE SOLVENT CHECK	1	1		12/01/10 22:57
38	15G24284.R	HEXANE SOLVENT CHECK	1	1		12/01/10 23:25
39	15G24285.F	WG350177-04 ENDRIN/DDT	1	1	STD39983	12/01/10 23:25
40	15G24285.R	WG350177-04 ENDRIN/DDT	1	1	STD39983	12/01/10 23:53
41	15G24286.F	WG350177-05 PEST CCV 20 PPB	1	1	STD40207	12/01/10 23:53
42	15G24286.R	WG350177-05 PEST CCV 20 PPB	1	1	STD40207	12/02/10 00:21
43	15G24287.F	WG350178-03 TOX CCV 500 PPB	1	1	STD40827	12/02/10 00:21
44	15G24287.R	WG350178-03 TOX CCV 500 PPB	1	1	STD40827	12/02/10 00:50

Comments

Seq.	Rerun	Dil.	Reason	Analytes
7	X			
	ELAB PEST SPIKE 20 PPB: Remix and rerun.			
17				
	L10110845-01: T-M-X surrogate failed low.			
19				
	L10110845-02: T-M-X surrogate failed low.			
33				
	L10110846-04 MS: 3 analytes failed high and 4 analytes failed low.			
35				
	L10110846-04 MSD: gamma-BHC failed high and 5 analytes failed low.			
42				
	WG350177-05 PEST CCV 20 PPB: Methoxychlor failed low on the rear (confirmation) column.			

Page: 2 Approved: 02-DEC-10

Microbac Laboratories Inc.

Data Checklist

Date: 27-SEP-2010
Analyst: ECL
Analyst: NA
Method: 8081
Instrument: HP15
Curve Workgroup: NA
Runlog ID: 36634
Analytical Workgroups: L10090495

ANALYTICAL	
System Performance Check	NA
DFTPP (MS)	NA
Endrin/DDT breakdown (8081/MS)	X
Pentachlorophenol/benzidine tailing (MS)	NA
Eluent check (IC)/system pressure (HPLC)	NA
Window standard (FID)	NA
Initial Calibration	X
Average RF	X
Linear regression or higher order curve	NA
Alternate source standard (ICV) % Difference	X
Continuing Calibration (CCV)	X
% D/% Drift	X
Minimum response factors (MS)	NA
Continuing calibration blank (CCB) (IC)	NA
Special standards	X
Blanks	X
TCL hits	X
Surrogate recoveries	X
LCS/LCSD (Laboratory Control Sample)	X
Recoveries	X
Surrogate recoveries	X
MS/MSD/Sample duplicates	NA
Recoveries	NA
%RPD	NA
Samples	X
TCL hits	X
Mass spectra (MS/HPLC)/2nd column confirmations (ECD/FID/HPLC)	X
Surrogate recoveries	X
Internal standard areas (MS)	NA
Library searches (MS)	NA
Calculations & correct factors	X
Compounds above calibration range	NA
Reruns	NA
Manual integrations	X
Project/client specific requirements	X
REPORTING	
Upload batch form	X
KOBRA workgroup data/forms/bench sheets	X
Case narratives	NA
Check for completeness	X
Primary Reviewer	ECL
SUPERVISORY/SECONDARY REVIEW	
Check for compliance with method and project specific requirements	X
Check the completeness/accuracy of reported information	X
Data qualifiers	X
Secondary Reviewer	HAV

Primary Reviewer:
28-SEP-2010

Secondary Reviewer:
01-OCT-2010

CHECKLIST1 - Modified 03/05/2008
Generated: OCT-01-2010 13:59:58

Microbac Laboratories Inc.

Data Checklist

Date: 01-DEC-2010
Analyst: ECL
Analyst: NA
Method: 8081
Instrument: HP15
Curve Workgroup: NA
Runlog ID: 37847
Analytical Workgroups: L10110841, L10110845, L10110846

ANALYTICAL	
System Performance Check	NA
DFTPP (MS)	NA
Endrin/DDT breakdown (8081/MS)	X
Pentachlorophenol/benzidine tailing (MS)	NA
Eluent check (IC)/system pressure (HPLC)	NA
Window standard (FID)	NA
Initial Calibration	NA
Average RF	NA
Linear regression or higher order curve	NA
Alternate source standard (ICV) % Difference	NA
Continuing Calibration (CCV)	X
% D/% Drift	X
Minimum response factors (MS)	NA
Continuing calibration blank (CCB) (IC)	NA
Special standards	NA
Blanks	X
TCL hits	X
Surrogate recoveries	X
LCS/LCSD (Laboratory Control Sample)	X
Recoveries	X
Surrogate recoveries	X
MS/MSD/Sample duplicates	X
Recoveries	X
%RPD	X
Samples	X
TCL hits	X
Mass spectra (MS/HPLC)/2nd column confirmations (ECD/FID/HPLC)	X
Surrogate recoveries	X
Internal standard areas (MS)	NA
Library searches (MS)	NA
Calculations & correct factors	X
Compounds above calibration range	NA
Reruns	NA
Manual integrations	X
Project/client specific requirements	NA
REPORTING	
Upload batch form	X
KOBRA workgroup data/forms/bench sheets	X
Case narratives	X
Check for completeness	X
Primary Reviewer	ECL
SUPERVISORY/SECONDARY REVIEW	
Check for compliance with method and project specific requirements	X
Check the completeness/accuracy of reported information	X
Data qualifiers	X
Secondary Reviewer	MDC

Primary Reviewer:
02-DEC-2010

Secondary Reviewer:
02-DEC-2010

CHECKLIST1 - Modified 03/05/2008
Generated: DEC-02-2010 12:48:54

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8081A **AAB#:** WG350079

Login Number: L10110845

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
DLASS-014-0001-SO	01	11/09/10					11/30/10	20.8	14	*	12/01/10	1.3	40	
DLASS-014-0003-SO	02	11/09/10					11/30/10	20.8	14	*	12/01/10	1.3	40	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 1855323
Report generated 12/06/2010 09:43

Microbac Laboratories Inc.
SURROGATE STANDARDS

Login Number: L10110845
Instrument Id: HP15
Workgroup (AAB#): WG350079

Method: 8081
CAL ID: HP15-27-SEP-10
Matrix: Soil

Sample Number	Dilution	Tag	1	2
L10110845-01	1.00	01	67.9	69.1
L10110845-02	1.00	01	54.9	61.6
WG349954-02	1.00	01	84.1	83.1
WG349954-02	1.00	02	58.9	84.5
WG349954-03	1.00	01	70.4	87.1
WG349954-03	1.00	02	64.2	89.4
WG349954-04	1.00	03	68.5	85.6

Surrogates	Surrogate Limits		
1 - 2,4,5,6-Tetrachloro-m-xylene	70	-	125
2 - Decachlorobiphenyl	55	-	130

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

SURROGATES - Modified 03/06/2008
PDF File ID: 1855331
Report generated: 12/06/2010 09:43

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number:	L10110845	Work Group:	WG350079
Blank File ID:	15G24270.F	Blank Sample ID:	WG349954-02
Prep Date:	11/30/10 10:45	Instrument ID:	HP15
Analyzed Date:	12/01/10 16:21	Method:	8081A
Analyst:	ECL		

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG349954-03	15G24271.F	12/01/10 16:49	01
LCS_TOX	WG349954-04	15G24272.F	12/01/10 17:17	03
LCS	WG349954-03	15G24271.R	12/01/10 17:17	02
DLASS-014-0001-SO	L10110845-01	15G24274.F	12/01/10 18:14	01
DLASS-014-0003-SO	L10110845-02	15G24275.F	12/01/10 18:42	01

Report Name: BLANK_SUMMARY
PDF File ID: 1855324
Report generated 12/06/2010 09:43

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number:L10110845 Prep Date:11/30/10 10:45 Sample ID:WG349954-02
Instrument ID:HP15 Run Date:12/01/10 16:21 Prep Method:3550B
File ID:15G24270.F Analyst:ECL Method:8081A
Workgroup (AAB#):WG350079 Matrix:Soil Units:ug/kg
Contract #: Cal ID: HP15-27-SEP-10

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
4,4'-DDD	0.330	1.65	0.330	1	U
4,4'-DDE	0.330	1.65	0.330	1	U
4,4'-DDT	0.330	1.65	0.330	1	U
Aldrin	0.330	1.65	0.330	1	U
alpha Chlordane	0.330	1.65	0.330	1	U
alpha-BHC	0.330	1.65	0.330	1	U
beta-BHC	0.330	1.65	0.330	1	U
delta-BHC	0.330	1.65	0.330	1	U
Dieldrin	0.330	1.65	0.330	1	U
Endosulfan I	0.330	1.65	0.330	1	U
Endosulfan II	0.330	1.65	0.330	1	U
Endosulfan sulfate	0.330	1.65	0.330	1	U
Endrin	0.330	1.65	0.330	1	U
Endrin aldehyde	0.330	1.65	0.330	1	U
Endrin ketone	0.330	1.65	0.330	1	U
gamma Chlordane	0.330	1.65	0.330	1	U
gamma-BHC (Lindane)	0.330	1.65	0.330	1	U
Heptachlor	0.330	1.65	0.330	1	U
Heptachlor epoxide	0.330	1.65	0.330	1	U
Methoxychlor	0.330	1.65	0.330	1	U
Toxaphene	16.7	33.0	16.7	1	U

Surrogates	% Recovery	Surrogate Limits			Qualifier
2,4,5,6-Tetrachloro-m-xylene	84.1	70	-	125	PASS
Decachlorobiphenyl	83.1	55	-	130	PASS

LOD Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 1855325
06-DEC-2010 09:43

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L10110845 Run Date: 12/01/2010 Sample ID: WG349954-03
Instrument ID: HP15 Run Time: 16:49 Prep Method: 3550B
File ID: 15G24271.F Analyst: ECL Method: 8081A
Workgroup (AAB#): WG350079 Matrix: Soil Units: ug/kg
QC Key: DOD4 Lot#: STD39617 Cal ID: HP15-27-SEP-10

Analytes	Expected	Found	% Rec	LCS Limits	Q
4,4'-DDD	16.7	16.1	96.4	30 - 135	
4,4'-DDE	16.7	16.4	98.6	70 - 125	
4,4'-DDT	16.7	15.3	92.0	45 - 140	
Aldrin	16.7	13.4	80.2	45 - 140	
alpha Chlordane	16.7	15.4	92.5	65 - 120	
alpha-BHC	16.7	15.0	89.7	60 - 125	
beta-BHC	16.7	14.7	88.2	60 - 125	
delta-BHC	16.7	16.0	95.9	55 - 130	
Dieldrin	16.7	16.3	97.6	65 - 125	
Endosulfan I	16.7	12.5	75.2	15 - 135	
Endosulfan II	16.7	12.4	74.4	35 - 140	
Endosulfan sulfate	16.7	16.6	99.6	60 - 135	
Endrin	16.7	15.9	95.6	60 - 135	
Endrin aldehyde	16.7	13.6	81.6	35 - 145	
Endrin ketone	16.7	15.6	93.3	65 - 135	
gamma Chlordane	16.7	14.8	89.1	65 - 125	
gamma-BHC (Lindane)	16.7	15.2	91.2	60 - 125	
Heptachlor	16.7	14.5	87.0	50 - 140	
Heptachlor epoxide	16.7	13.2	78.9	65 - 130	
Methoxychlor	16.7	15.0	89.8	55 - 145	

Surrogates	% Recovery	Surrogate Limits	Qualifier
2,4,5,6-Tetrachloro-m-xylene	70.4	70 - 125	PASS
Decachlorobiphenyl	87.1	55 - 130	PASS

* EXCEEDS %REC LIMIT

LCS - Modified 03/06/2008
PDF File ID: 1855326
Report generated: 12/06/2010 09:43

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L10110845 Run Date: 12/01/2010 Sample ID: WG349954-04
Instrument ID: HP15 Run Time: 17:17 Prep Method: 3550B
File ID: 15G24272.F Analyst: ECL Method: 8081A
Workgroup (AAB#): WG350079 Matrix: Soil Units: ug/kg
QC Key: DOD4 Lot#: STD39617 Cal ID: HP15-27-SEP-10

Analytes	Expected	Found	% Rec	LCS Limits	Q
Toxaphene	66.7	54.2	81.4	25 - 138	

Surrogates	% Recovery	Surrogate Limits	Qualifier
2,4,5,6-Tetrachloro-m-xylene	68.5	70 - 125	FAIL
Decachlorobiphenyl	85.6	55 - 130	PASS

* EXCEEDS %REC LIMIT

LCS - Modified 03/06/2008
PDF File ID: 1855326
Report generated: 12/06/2010 09:43

Microbac Laboratories Inc.

INITIAL CALIBRATION SUMMARY

Login Number: L10110845
Analytical Method: 8081A
ICAL Workgroup: WG343903

Instrument ID: HP15
Initial Calibration Date: 27-SEP-10 18:55
Column ID: F

Analyte	AVG RF	% RSD	LINEAR (R)	QUAD (R^2)

R = Correlation coefficient; 0.995 minimum
R^2 = Coefficient of determination; 0.99 minimum

INT_CAL - Modified 03/06/2008
PDF File ID: 1855328
Report generated 12/09/2010 09:46

Microbac Laboratories Inc.

INITIAL CALIBRATION SUMMARY

Login Number: L10110845
Analytical Method: 8081A
ICAL Workgroup: WG343903

Instrument ID: HP15
Initial Calibration Date: 27-SEP-10 18:55
Column ID: R

Analyte	AVG RF	% RSD	LINEAR (R)	QUAD (R^2)

R = Correlation coefficient; 0.995 minimum
R^2 = Coefficient of determination; 0.99 minimum

INT_CAL - Modified 03/06/2008
PDF File ID: 1855328
Report generated 12/09/2010 09:46

Microbac Laboratories Inc.
INITIAL CALIBRATION SUMMARY

Login Number: L10110845 **Instrument ID:** HP15
Analytical Method: 8081A **Initial Calibration Date:** 27-SEP-10 22:14
ICAL Workgroup: WG343902 **Column ID:** F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD (R^2)
4,4'-DDD		103800000	4.77		
4,4'-DDE		127700000	4.44		
4,4'-DDT		118200000	6.26		
Aldrin		155300000	4.90		
Dieldrin		124100000	5.61		
Endosulfan I		124400000	6.68		
Endosulfan II		118800000	11.7		
Endosulfan Sulfate		95610000	10.7		
Endrin		121400000	4.18		
Endrin Aldehyde		91150000	8.47		
Endrin Ketone		109000000	8.58		
Heptachlor		151500000	5.22		
Heptachlor Epoxide		142000000	8.05		
Methoxychlor		56440000	8.48		
alpha-BHC		166900000	9.41		
alpha-Chlordane		135900000	1.96		
beta-BHC		69840000	2.41		
delta-BHC		153000000	9.53		
gamma-BHC		155900000	6.96		
gamma-Chlordane		148200000	4.75		

R = Correlation coefficient; 0.995 minimum
R^2 = Coefficient of determination; 0.99 minimum

INT_CAL - Modified 03/06/2008
PDF File ID: 1855328
Report generated 12/09/2010 09:46

Microbac Laboratories Inc.
INITIAL CALIBRATION SUMMARY

Login Number: L10110845 **Instrument ID:** HP15
Analytical Method: 8081A **Initial Calibration Date:** 27-SEP-10 22:14
ICAL Workgroup: WG343902 **Column ID:** R

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD (R^2)
4,4'-DDD					
4,4'-DDE					
4,4'-DDT					
Aldrin					
Dieldrin					
Endosulfan I					
Endosulfan II					
Endosulfan Sulfate					
Endrin					
Endrin Aldehyde					
Endrin Ketone					
Heptachlor					
Heptachlor Epoxide					
Methoxychlor					
alpha-BHC					
alpha-Chlordane					
beta-BHC					
delta-BHC					
gamma-BHC					
gamma-Chlordane					

R = Correlation coefficient; 0.995 minimum
R^2 = Coefficient of determination; 0.99 minimum

INT_CAL - Modified 03/06/2008
PDF File ID: 1855328
Report generated 12/09/2010 09:46

Microbac Laboratories Inc.
INITIAL CALIBRATION DATA

Login Number: L10110845
Analytical Method: 8081A

Instrument ID: HP15
Initial Calibration Date: 27-SEP-10 18:55
Column ID: F

Analyte

INT_CAL - Modified 03/06/2008
PDF File ID: 1855328
Report generated 12/09/2010 09:46

Microbac Laboratories Inc.
INITIAL CALIBRATION DATA

Login Number: L10110845
Analytical Method: 8081A

Instrument ID: HP15
Initial Calibration Date: 27-SEP-10 18:55
Column ID: R

Analyte

INT_CAL - Modified 03/06/2008
PDF File ID: 1855328
Report generated 12/09/2010 09:46

Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L10110845 **Instrument ID:** HP15

Analytical Method: 8081A **Initial Calibration Date:** 27-SEP-10 22:14

Column ID: F

Analyte	WG343902-01			WG343902-02			WG343902-03		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
4,4'-DDD	200	21194229300	106000000	100	10716113000	107200000	20.0	2169099070	108500000
4,4'-DDE	200	25881063700	129400000	100	13215371500	132200000	20.0	2666877990	133300000
4,4'-DDT	200	22560811300	112800000	100	11516923900	115200000	20.0	2349242570	117500000
Aldrin	200	29991451600	150000000	100	15543074500	155400000	20.0	3238363240	161900000
Dieldrin	200	22624057700	113100000	100	12613312900	126100000	20.0	2693818770	134700000
Endosulfan I	200	22145993000	110700000	100	11749255600	117500000	20.0	2578305980	128900000
Endosulfan II	200	20609691500	103000000	100	10742082000	107400000	20.0	2345930200	117300000
Endosulfan Sulfate	200	17294032500	86470000	100	8739187090	87390000	20.0	1846351990	92320000
Endrin	200	22638957100	113200000	100	11852387700	118500000	20.0	2536248670	126800000
Endrin Aldehyde	200	15978969900	79890000	100	8333464510	83330000	20.0	1852631110	92630000
Endrin Ketone	200	19622203400	98110000	100	10067206300	100700000	20.0	2165265130	108300000
Heptachlor	200	27604826100	138000000	100	14584543200	145800000	20.0	3140753570	157000000
Heptachlor Epoxide	200	24925364700	124600000	100	13184460000	131800000	20.0	2905867280	145300000
Methoxychlor	200	9867586560	49340000	100	5145335120	51450000	20.0	1167801210	58390000
alpha-BHC	200	36594436600	183000000	100	18039039200	180400000	20.0	3486980620	174300000
alpha-Chlordane	200	26284355200	131400000	100	13449739800	134500000	20.0	2780388460	139000000
beta-BHC	200	13625441400	68130000	100	6743339770	67430000	20.0	1403329440	70170000
delta-BHC	200	33542082300	167700000	100	16650915300	166500000	20.0	3187199340	159400000
gamma-BHC	200	33131432200	165700000	100	16381372800	163800000	20.0	3232286080	161600000
gamma-Chlordane	200	28416177900	142100000	100	14316361300	143200000	20.0	2937271750	146900000

INT_CAL - Modified 03/06/2008
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Report generated 12/09/2010 09:46

Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L10110845 **Instrument ID:** HP15

Analytical Method: 8081A **Initial Calibration Date:** 27-SEP-10 22:14

Column ID: F

Analyte	WG343902-04			WG343902-05			WG343902-06		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
4,4'-DDD	10.0	1059153690	105900000	4.00	399146773	99790000	1.00	95781392.0	95780000
4,4'-DDE	10.0	1298308620	129800000	4.00	489666784	122400000	1.00	119119984	119100000
4,4'-DDT	10.0	1188340490	118800000	4.00	450838675	112700000	1.00	132489120	132500000
Aldrin	10.0	1663617080	166400000	4.00	606877502	151700000	1.00	146271662	146300000
Dieldrin	10.0	1217436240	121700000	4.00	498771270	124700000	1.00	124513513	124500000
Endosulfan I	10.0	1296010290	129600000	4.00	511937568	128000000	1.00	131452673	131500000
Endosulfan II	10.0	1210266810	121000000	4.00	485204663	121300000	1.00	142729135	142700000
Endosulfan Sulfate	10.0	951769872	95180000	4.00	391882720	97970000	1.00	114341632	114300000
Endrin	10.0	1262301300	126200000	4.00	487898552	122000000	1.00	121540813	121500000
Endrin Aldehyde	10.0	954105342	95410000	4.00	393678703	98420000	1.00	97215007.0	97220000
Endrin Ketone	10.0	1096922190	109700000	4.00	450781763	112700000	1.00	124321632	124300000
Heptachlor	10.0	1575742910	157600000	4.00	617635845	154400000	1.00	156292702	156300000
Heptachlor Epoxide	10.0	1480739550	148100000	4.00	585733045	146400000	1.00	155432282	155400000
Methoxychlor	10.0	590681161	59070000	4.00	239335070	59830000	1.00	60580494.0	60580000
alpha-BHC	10.0	1672185180	167200000	4.00	611426510	152900000	1.00	143650637	143700000
alpha-Chlordane	10.0	1364655710	136500000	4.00	544785800	136200000	1.00	137752674	137800000
beta-BHC	10.0	710572860	71060000	4.00	282463743	70620000	1.00	71641717.0	71640000
delta-BHC	10.0	1526652160	152700000	4.00	562232779	140600000	1.00	131354429	131400000
gamma-BHC	10.0	1594698720	159500000	4.00	583031928	145800000	1.00	139089696	139100000
gamma-Chlordane	10.0	1478303600	147800000	4.00	590879543	147700000	1.00	161741975	161700000

INT_CAL - Modified 03/06/2008
PDF File ID: 1855328
Report generated 12/09/2010 09:46

Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L10110845
Analytical Method: 8081A

Instrument ID: HP15
Initial Calibration Date: 27-SEP-10 22:14
Column ID: R

Analyte	WG343902-01			WG343902-02			WG343902-03		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
4,4'-DDD	200	16614002400	83070000	100	8525213550	85250000	20.0	1778003840	88900000
4,4'-DDE	200	19941047200	99710000	100	10327524300	103300000	20.0	2149460870	107500000
4,4'-DDT	200	17325402300	86630000	100	8864492900	88640000	20.0	1839381880	91970000
Aldrin	200	22416268700	112100000	100	11866070000	118700000	20.0	2532327880	126600000
Dieldrin	200	19765486500	98830000	100	10386995800	103900000	20.0	2240577580	112000000
Endosulfan I	200	15964385200	79820000	100	8119154930	81190000	20.0	1924782410	96240000
Endosulfan II	200	16141070300	80710000	100	8460925580	84610000	20.0	1867174690	93360000
Endosulfan Sulfate	200	13469401900	67350000	100	6905619140	69060000	20.0	1462606850	73130000
Endrin	200	16634162600	83170000	100	8456040400	84560000	20.0	1924526170	96230000
Endrin Aldehyde	200	11769174700	58850000	100	5990453460	59900000	20.0	1413967820	70700000
Endrin Ketone	200	14657066800	73290000	100	7608135530	76080000	20.0	1641625280	82080000
Heptachlor	200	23694108200	118500000	100	12630180800	126300000	20.0	2793625170	139700000
Heptachlor Epoxide	200	18364071300	91820000	100	9636513330	96370000	20.0	2179900540	109000000
Methoxychlor	200	7439048780	37200000	100	3827673210	38280000	20.0	862722214	43140000
alpha-BHC	200	28042108700	140200000	100	14273426100	142700000	20.0	2879699130	144000000
alpha-Chlordane	200	20399638100	102000000	100	10447867700	104500000	20.0	2188646480	109400000
beta-BHC	200	11793440000	58970000	100	6001004550	60010000	20.0	1277569850	63880000
delta-BHC	200	27983530100	139900000	100	14214413200	142100000	20.0	2897163540	144900000
gamma-BHC	200	27404979600	137000000	100	14076586400	140800000	20.0	2902924990	145100000
gamma-Chlordane	200	21552683900	107800000	100	11044032200	110400000	20.0	2308330840	115400000

INT_CAL - Modified 03/06/2008
PDF File ID: 1855328
Report generated 12/09/2010 09:46

Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L10110845 **Instrument ID:** HP15

Analytical Method: 8081A **Initial Calibration Date:** 27-SEP-10 22:14

Column ID: R

Analyte	WG343902-04			WG343902-05			WG343902-06		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
4,4'-DDD	10.0	881750530	88180000	4.00	345522769	86380000	1.00	88232424.0	88230000
4,4'-DDE	10.0	1069666210	107000000	4.00	418166003	104500000	1.00	106165867	106200000
4,4'-DDT	10.0	915000878	91500000	4.00	359746951	89940000	1.00	91287819.0	91290000
Aldrin	10.0	1266446170	126600000	4.00	499458545	124900000	1.00	127145996	127100000
Dieldrin	10.0	1126758740	112700000	4.00	447662049	111900000	1.00	115321072	115300000
Endosulfan I	10.0	963495591	96350000	4.00	408584368	102100000	1.00	103079922	103100000
Endosulfan II	10.0	955277608	95530000	4.00	389364402	97340000	1.00	103402630	103400000
Endosulfan Sulfate	10.0	731373807	73140000	4.00	293795649	73450000	1.00	76367184.0	76370000
Endrin	10.0	951824798	95180000	4.00	390336176	97580000	1.00	96794745.0	96790000
Endrin Aldehyde	10.0	725798991	72580000	4.00	316358589	79090000	1.00	86240097.0	86240000
Endrin Ketone	10.0	826336673	82630000	4.00	333075528	83270000	1.00	86651814.0	86650000
Heptachlor	10.0	1416590820	141700000	4.00	570574062	142600000	1.00	149634508	149600000
Heptachlor Epoxide	10.0	1099812630	110000000	4.00	452460865	113100000	1.00	111767171	111800000
Methoxychlor	10.0	452016921	45200000	4.00	192974403	48240000	1.00	55282548.0	55280000
alpha-BHC	10.0	1406517680	140700000	4.00	539834664	135000000	1.00	128975275	129000000
alpha-Chlordane	10.0	1109613770	111000000	4.00	450817694	112700000	1.00	119716271	119700000
beta-BHC	10.0	654470357	65450000	4.00	270406435	67600000	1.00	70498702.0	70500000
delta-BHC	10.0	1420602410	142100000	4.00	546178423	136500000	1.00	133039140	133000000
gamma-BHC	10.0	1449180660	144900000	4.00	558608283	139700000	1.00	139816630	139800000
gamma-Chlordane	10.0	1159004710	115900000	4.00	462812786	115700000	1.00	117189239	117200000

INT_CAL - Modified 03/06/2008
PDF File ID: 1855328
Report generated 12/09/2010 09:46

Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L10110845 Run Date: 09/27/2010 Sample ID: WG343903-06
Instrument ID: HP15 Run Time: 18:55 Method: 8081A
File ID: 15G23701.F Analyst: ECL QC Key: DOD4
ICal Workgroup: WG343903 Cal ID: HP15 - 27-SEP-10

Analyte		Expected	Found	Units	RF	%D	UCL	Q
Toxaphene		500	450	ug/L	1720000	10.0	20	

* Exceeds %D Limit

ALT - Modified 09/06/2007
Version 1.5 PDF File ID: 1855329
Report generated 12/06/2010 09:43

Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L10110845 Run Date: 09/27/2010 Sample ID: WG343902-07
Instrument ID: HP15 Run Time: 22:14 Method: 8081A
File ID: 15G23708.F Analyst: ECL QC Key: DOD4
ICal Workgroup: WG343902 Cal ID: HP15 - 27-SEP-10

Analyte		Expected	Found	Units	RF	%D	UCL	Q
4,4'-DDD		20.0	19.8	ug/L	103000000	0.900	20	
4,4'-DDE		20.0	20.4	ug/L	130000000	1.90	20	
4,4'-DDT		20.0	19.1	ug/L	113000000	4.60	20	
Aldrin		20.0	19.7	ug/L	153000000	1.60	20	
alpha-Chlordane		20.0	19.6	ug/L	133000000	2.20	20	
alpha-BHC		20.0	19.9	ug/L	166000000	0.700	20	
beta-BHC		20.0	19.5	ug/L	68100000	2.40	20	
delta-BHC		20.0	19.7	ug/L	151000000	1.50	20	
Dieldrin		20.0	19.9	ug/L	124000000	0.300	20	
Endosulfan I		20.0	19.9	ug/L	124000000	0.300	20	
Endosulfan II		20.0	18.7	ug/L	111000000	6.60	20	
Endosulfan Sulfate		20.0	18.9	ug/L	90200000	5.70	20	
Endrin		20.0	19.8	ug/L	120000000	1.00	20	
Endrin Aldehyde		20.0	19.2	ug/L	87600000	3.90	20	
Endrin Ketone		20.0	19.9	ug/L	108000000	0.500	20	
gamma-Chlordane		20.0	19.0	ug/L	141000000	5.10	20	
gamma-BHC		20.0	19.9	ug/L	155000000	0.700	20	
Heptachlor		20.0	19.9	ug/L	151000000	0.600	20	
Heptachlor Epoxide		20.0	19.3	ug/L	137000000	3.70	20	
Methoxychlor		20.0	19.9	ug/L	56200000	0.400	20	

* Exceeds %D Limit

ALT - Modified 09/06/2007
Version 1.5 PDF File ID: 1855329
Report generated 12/06/2010 09:43

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L10110845 Run Date: 12/01/2010 Sample ID: WG350177-02
Instrument ID: HP15 Run Time: 13:58 Method: 8081A
File ID: 15G24267.F Analyst: ECL QC Key: DOD4
Workgroup (AAB#): WG350079 Cal ID: HP15 - 27-SEP-10
Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
4,4'-DDD		20.0	22.4	ug/L	117000000	12.2	20	
4,4'-DDE		20.0	21.8	ug/L	139000000	9.13	20	
4,4'-DDT		20.0	19.7	ug/L	116000000	1.48	20	
Aldrin		20.0	20.3	ug/L	158000000	1.47	20	
alpha-Chlordane		20.0	21.7	ug/L	147000000	8.27	20	
alpha-BHC		20.0	22.1	ug/L	184000000	10.4	20	
beta-BHC		20.0	21.2	ug/L	74100000	6.04	20	
delta-BHC		20.0	22.6	ug/L	173000000	12.8	20	
Dieldrin		20.0	22.0	ug/L	136000000	9.91	20	
Endosulfan I		20.0	21.5	ug/L	134000000	7.43	20	
Endosulfan II		20.0	20.4	ug/L	121000000	1.76	20	
Endosulfan Sulfate		20.0	21.7	ug/L	104000000	8.60	20	
Endrin		20.0	20.6	ug/L	125000000	2.86	20	
Endrin Aldehyde		20.0	21.0	ug/L	95500000	4.82	20	
Endrin Ketone		20.0	22.1	ug/L	121000000	10.7	20	
gamma-Chlordane		20.0	21.1	ug/L	156000000	5.49	20	
gamma-BHC		20.0	21.9	ug/L	171000000	9.58	20	
Heptachlor		20.0	21.4	ug/L	162000000	6.96	20	
Heptachlor Epoxide		20.0	21.4	ug/L	152000000	7.21	20	
Methoxychlor		20.0	19.8	ug/L	55800000	1.10	20	
Toxaphene		NA		ug/L			20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008
PDF File ID: 1855330
Report generated 12/06/2010 09:43

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L10110845 Run Date: 12/01/2010 Sample ID: WG350178-01
Instrument ID: HP15 Run Time: 15:24 Method: 8081A
File ID: 15G24268.F Analyst: ECL QC Key: DOD4
Workgroup (AAB#): WG350079 Cal ID: HP15 - 27-SEP-10
Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Toxaphene		500	530	ug/L	2040000	6.00	20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008
PDF File ID: 1855330
Report generated 12/06/2010 09:43

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L10110845 Run Date: 12/01/2010 Sample ID: WG350177-03
Instrument ID: HP15 Run Time: 20:35 Method: 8081A
File ID: 15G24279.F Analyst: ECL QC Key: DOD4
Workgroup (AAB#): WG350079 Cal ID: HP15 - 27-SEP-10
Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
4,4'-DDD		10.0	9.89	ug/L	103000000	1.07	20	
4,4'-DDE		10.0	9.79	ug/L	125000000	2.10	20	
4,4'-DDT		10.0	8.75	ug/L	103000000	12.5	20	
Aldrin		10.0	9.14	ug/L	142000000	8.56	20	
alpha-Chlordane		10.0	9.96	ug/L	135000000	0.412	20	
alpha-BHC		10.0	10.4	ug/L	173000000	3.78	20	
beta-BHC		10.0	10.7	ug/L	74600000	6.79	20	
delta-BHC		10.0	10.7	ug/L	164000000	7.06	20	
Dieldrin		10.0	10.0	ug/L	125000000	0.367	20	
Endosulfan I		10.0	9.93	ug/L	124000000	0.654	20	
Endosulfan II		10.0	9.36	ug/L	111000000	6.39	20	
Endosulfan Sulfate		10.0	9.21	ug/L	88000000	7.94	20	
Endrin		10.0	9.63	ug/L	117000000	3.68	20	
Endrin Aldehyde		10.0	8.86	ug/L	80700000	11.4	20	
Endrin Ketone		10.0	9.52	ug/L	104000000	4.81	20	
gamma-Chlordane		10.0	9.69	ug/L	144000000	3.06	20	
gamma-BHC		10.0	10.4	ug/L	163000000	4.45	20	
Heptachlor		10.0	10.5	ug/L	160000000	5.35	20	
Heptachlor Epoxide		10.0	10.2	ug/L	144000000	1.66	20	
Methoxychlor		10.0	9.02	ug/L	50900000	9.81	20	
Toxaphene		NA		ug/L			20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008
PDF File ID: 1855330
Report generated 12/06/2010 09:43

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L10110845 Run Date: 12/01/2010 Sample ID: WG350178-02
Instrument ID: HP15 Run Time: 21:03 Method: 8081A
File ID: 15G24280.F Analyst: ECL QC Key: DOD4
Workgroup (AAB#): WG350079 Cal ID: HP15 - 27-SEP-10
Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Toxaphene		200	194	ug/L	1890000	2.84	20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008
PDF File ID: 1855330
Report generated 12/06/2010 09:43

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L10110845 Run Date: 12/01/2010 Sample ID: WG350177-05
Instrument ID: HP15 Run Time: 23:53 Method: 8081A
File ID: 15G24286.F Analyst: ECL QC Key: DOD4
Workgroup (AAB#): WG350079 Cal ID: HP15 - 27-SEP-10
Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
4,4'-DDD		20.0	21.2	ug/L	110000000	6.02	20	
4,4'-DDE		20.0	21.2	ug/L	135000000	5.78	20	
4,4'-DDT		20.0	19.2	ug/L	114000000	3.97	20	
Aldrin		20.0	18.6	ug/L	144000000	7.02	20	
alpha-Chlordane		20.0	20.1	ug/L	137000000	0.599	20	
alpha-BHC		20.0	21.6	ug/L	180000000	7.99	20	
beta-BHC		20.0	21.3	ug/L	74400000	6.55	20	
delta-BHC		20.0	22.3	ug/L	171000000	11.5	20	
Dieldrin		20.0	20.2	ug/L	126000000	1.10	20	
Endosulfan I		20.0	20.2	ug/L	125000000	0.891	20	
Endosulfan II		20.0	19.4	ug/L	115000000	3.21	20	
Endosulfan Sulfate		20.0	19.9	ug/L	95300000	0.309	20	
Endrin		20.0	20.4	ug/L	124000000	1.86	20	
Endrin Aldehyde		20.0	19.1	ug/L	87100000	4.44	20	
Endrin Ketone		20.0	19.8	ug/L	108000000	1.18	20	
gamma-Chlordane		20.0	20.3	ug/L	151000000	1.55	20	
gamma-BHC		20.0	21.7	ug/L	169000000	8.34	20	
Heptachlor		20.0	21.1	ug/L	160000000	5.48	20	
Heptachlor Epoxide		20.0	20.8	ug/L	148000000	3.97	20	
Methoxychlor		20.0	18.8	ug/L	53000000	6.06	20	
Toxaphene		NA		ug/L			20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008
PDF File ID: 1855330
Report generated 12/06/2010 09:43

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L10110845 Run Date: 12/02/2010 Sample ID: WG350178-03
Instrument ID: HP15 Run Time: 00:21 Method: 8081A
File ID: 15G24287.F Analyst: ECL QC Key: DOD4
Workgroup (AAB#): WG350079 Cal ID: HP15 - 27-SEP-10
Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Toxaphene		500	508	ug/L	1970000	1.60	20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008
PDF File ID: 1855330
Report generated 12/06/2010 09:43

Microbac Laboratories Inc.

ENDRIN/4,4'-DDT BREAKDOWN (BRKDWN)

Login Number: L10110845 Run Date: 12/01/2010 Sample ID: WG350177-01
Instrument ID: HP15 Run Time: 13:29 Method: 8081
File ID: 15G24266.F Analyst: ECL Column ID: FRONT

DDT BREAKDOWN

Analyte	Response
4,4'-DDD	162009271
4,4'-DDE	109314072
4,4'-DDT	5729823152

DDT % BREAKDOWN: 4.52

ENDRIN BREAKDOWN

Analyte	Response
ENDRIN	6250416985
ENDRIN ALDEHYDE	130452574
ENDRIN KETONE	265639360

ENDRIN % BREAKDOWN: 5.96

* Exceeds 15% Criteria

Report Name: BRKDWN
PDF File ID: 1855327
Report generated 12/06/2010 09:43

Microbac Laboratories Inc.

ENDRIN/4,4'-DDT BREAKDOWN (BRKDWN)

Login Number: L10110845 Run Date: 12/01/2010 Sample ID: WG350177-04
Instrument ID: HP15 Run Time: 23:25 Method: 8081
File ID: 15G24285.F Analyst: ECL Column ID: FRONT

DDT BREAKDOWN

Analyte	Response
4,4'-DDD	108464509
4,4'-DDE	90794645
4,4'-DDT	5134381379

DDT % BREAKDOWN: 3.74

ENDRIN BREAKDOWN

Analyte	Response
ENDRIN	5836218448
ENDRIN ALDEHYDE	0
ENDRIN KETONE	141980055

ENDRIN % BREAKDOWN: 2.37

* Exceeds 15% Criteria

Report Name: BRKDWN
PDF File ID: 1855327
Report generated 12/06/2010 09:43

2.1.1.3 Sample Data

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\120110\
Data File : 15G24274.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2010 18:14 (#1); 01 Dec 2010 18:42 (#2)
Operator : ECL
Sample : L10110845-01
Misc : 7,1 SOIL
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 02 08:50:20 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 02 08:47:10 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L	
	System Monitoring Compounds							
1) S	2,4,5,6-Tetrachl	9.26	9.17	1544.7E6	1161.9E6	13.582	12.173	
	Spiked Amount	20.000	Range 29 - 133		Recovery =	67.91%	60.87%	
22) S	Decachlorobiphen	18.62	18.89	1106.3E6	728.4E6	13.806	12.817	
	Spiked Amount	20.000	Range 30 - 173		Recovery =	69.03%	64.09%	
	Target Compounds							
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.	
3)	gamma-BHC	11.20f	0.00	731.7E6	0	4.693	N.D.	#
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.	
5)	Heptachlor	12.16	0.00	222.6E6	0	1.469	N.D.	#
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.	
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.	
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.	
9)	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.	
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.	
11)	Endosulfan I	14.56f	14.49f	209.2E6	182.0E6	1.682	1.954	
12)	4,4'-DDE	0.00	14.67	0	94939877	N.D.	0.907	#
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.	
14)	Endrin	0.00	0.00	0	0	N.D.	N.D.	
15)	4,4'-DDD	0.00	0.00	0	0	N.D.	N.D.	
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.	
17)	4,4'-DDT	0.00	0.00	0	0	N.D.	N.D.	
18)	Endrin Aldehyde	0.00	16.40f	0	122.8E6	N.D.	1.725	#
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.	
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.	
21)	Endrin Ketone	0.00	0.00	0	0	N.D.	N.D.	

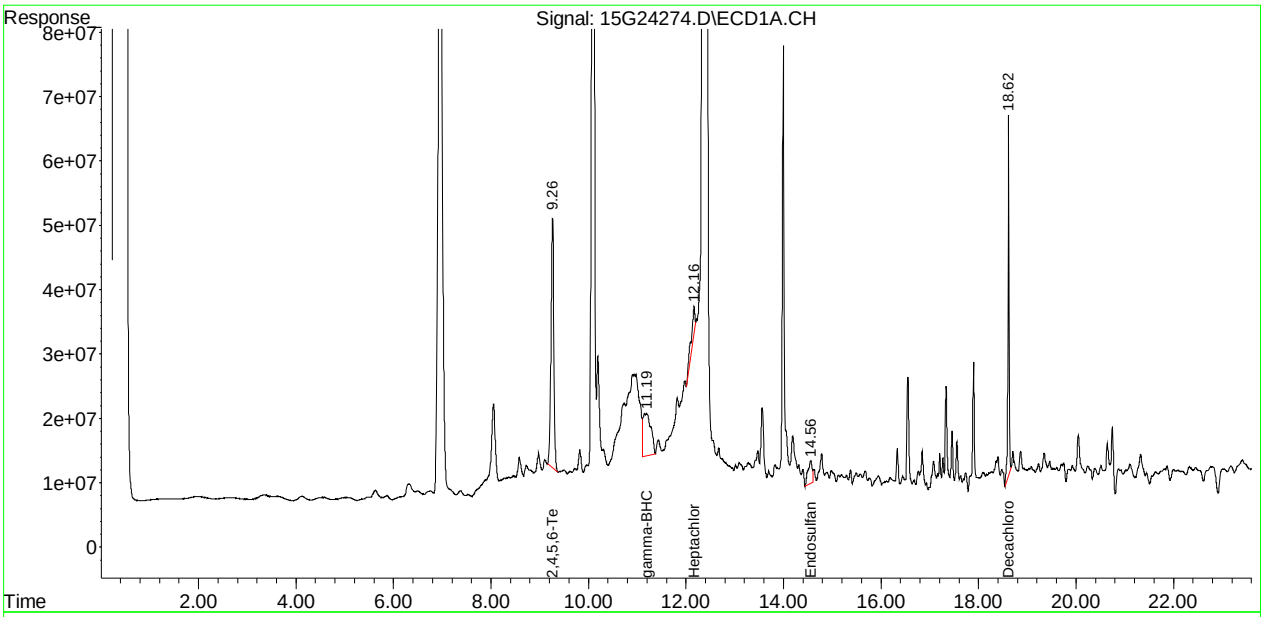
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

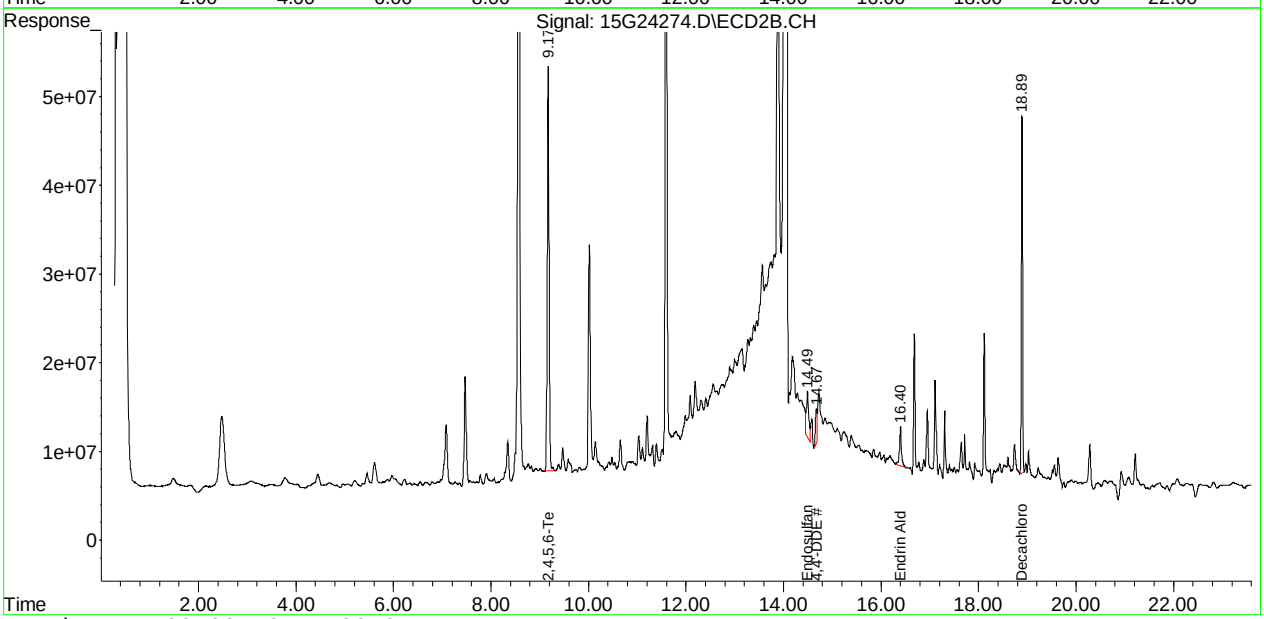
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\120110\
Data File : 15G24274.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2010 18:14 (#1); 01 Dec 2010 18:42 (#2)
Operator : ECL
Sample : L10110845-01
Misc : 7,1 SOIL
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 02 08:50:20 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 02 08:47:10 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



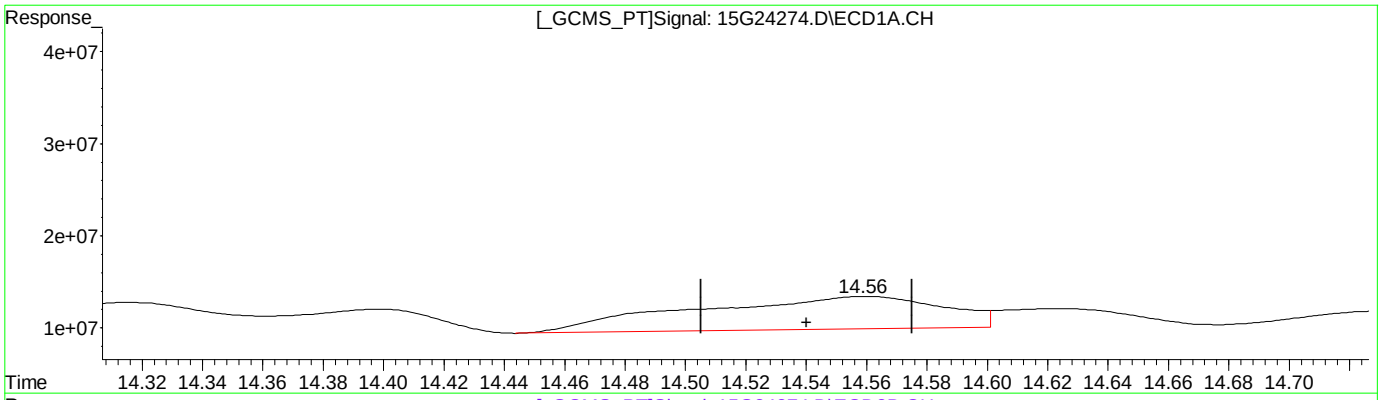


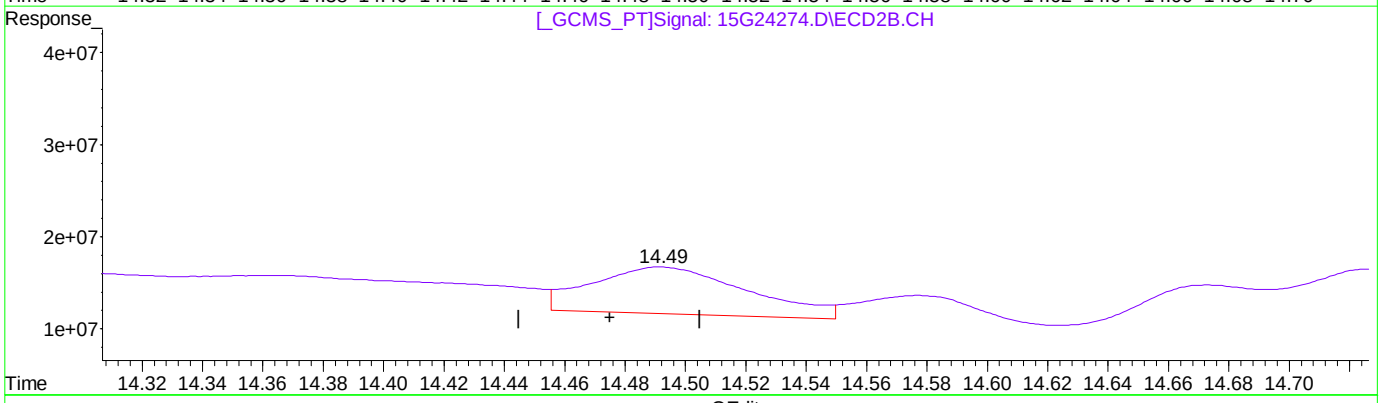
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\120110\
Data File : 15G24274.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Dec 2010 18:14 (#1); 01 Dec 2010 18:42 (#2)
Operator : ECL
Sample   : L10110845-01
Misc   : 7,1 SOIL
ALS Vial : 9   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 02 08:50:20 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 02 08:47:10 2010
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :





QEdit

(11) Endosulfan I

14.56min 1.682UG/L

response 209224983

(11) Endosulfan I #2

14.49min 1.954UG/L

response 181997894

(+) = Expected Retention Time

8081.M Thu Dec 02 11:29:42 2010 Page: 1

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\120110\
Data File : 15G24275.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2010 18:42 (#1); 01 Dec 2010 19:10 (#2)
Operator : ECL
Sample : L10110845-02
Misc : 7,1 SOIL
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 02 08:50:31 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 02 08:47:10 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L	
	System Monitoring Compounds							
1) S	2,4,5,6-Tetrachl	9.26	9.17	1247.6E6	943.8E6	10.970	9.888	
	Spiked Amount	20.000	Range 29 - 133		Recovery =	54.85%	49.44%	
22) S	Decachlorobiphen	18.62	18.89	987.1E6	666.6E6	12.319	11.636	
	Spiked Amount	20.000	Range 30 - 173		Recovery =	61.59%	58.18%	
	Target Compounds							
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.	
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.	
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.	
5)	Heptachlor	0.00	0.00	0	0	N.D.	N.D.	
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.	
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.	
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.	
9)	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.	
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.	
11)	Endosulfan I	14.56f	0.00	105.0E6	0	0.844	N.D.	#
12)	4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.	
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.	
14)	Endrin	0.00	0.00	0	0	N.D.	N.D.	
15)	4,4'-DDD	0.00	0.00	0	0	N.D.	N.D.	
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.	
17)	4,4'-DDT	0.00	0.00	0	0	N.D.	N.D.	
18)	Endrin Aldehyde	0.00	0.00	0	0	N.D.	N.D.	
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.	
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.	
21)	Endrin Ketone	0.00	0.00	0	0	N.D.	N.D.	

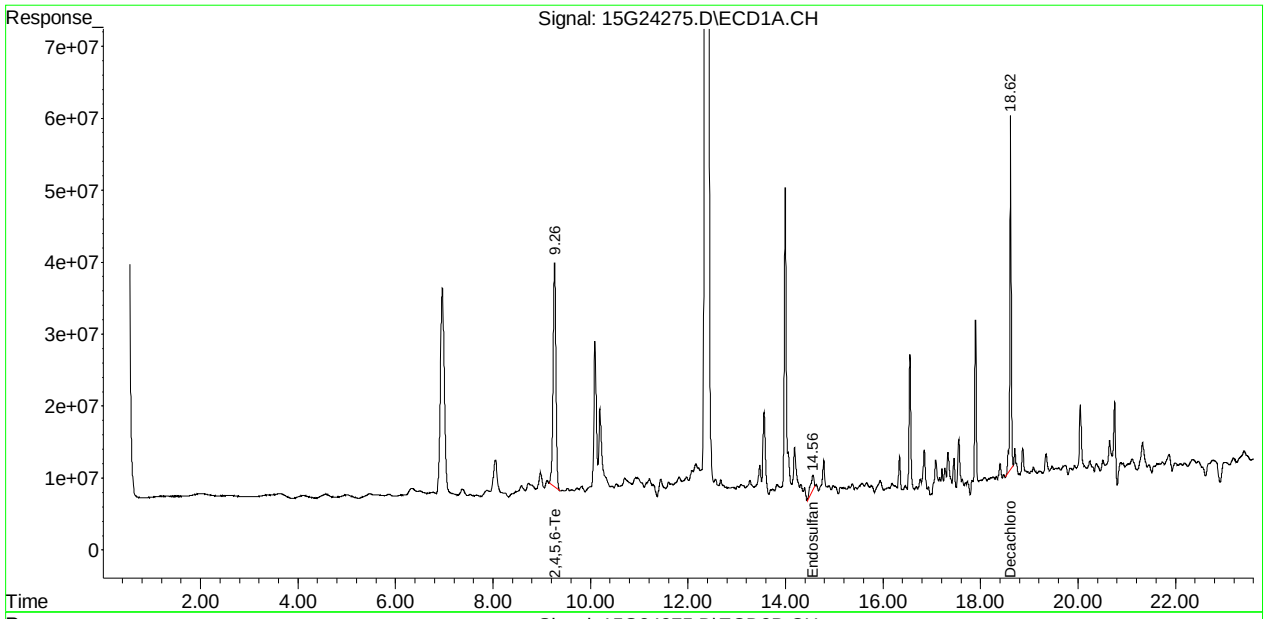
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

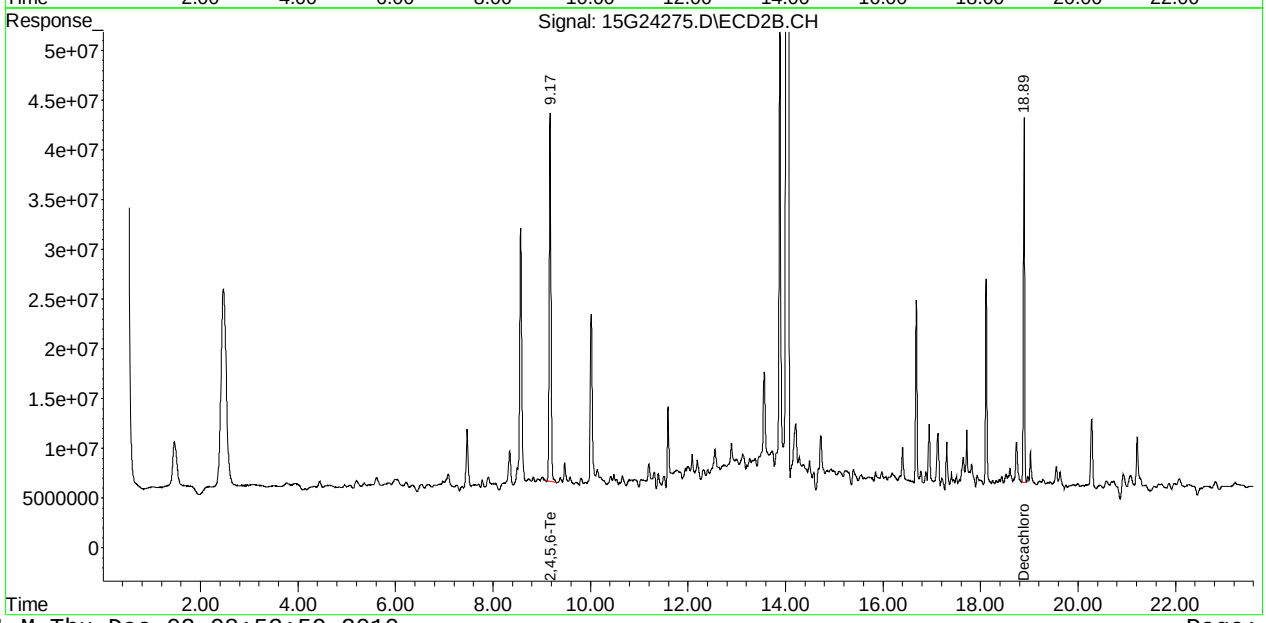
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\120110\
Data File : 15G24275.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2010 18:42 (#1); 01 Dec 2010 19:10 (#2)
Operator : ECL
Sample : L10110845-02
Misc : 7,1 SOIL
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 02 08:50:31 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 02 08:47:10 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





2.1.1.4 Standards Data

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23702.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 19:24 (#1); 27 Sep 2010 19:52 (#2)
Operator : ECL
Sample : WG343902-01 PEST ICAL 200 PPB
Misc : 1,1 STD40207
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:16:49 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:16:47 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.28	9.18	22953.6E6	17680.4E6	205.120	180.388
	Spiked Amount	20.000	Range 30 - 132		Recovery =	1025.60%#	901.94%#
22) S	Decachlorobiphen	18.63	18.90	13999.5E6	10537.1E6	176.954	185.819
	Spiked Amount	20.000	Range 36 - 144		Recovery =	884.77%#	929.09%#
	Target Compounds						
2)	alpha-BHC	10.57	10.54	36594.4E6	28042.1E6	220.668	177.611
3)	gamma-BHC	11.24	11.27	33131.4E6	27405.0E6	198.474	186.979
4)	beta-BHC	11.44	11.46	13625.4E6	11793.4E6	170.776	181.999
5)	Heptachlor	12.19	12.13	27604.8E6	23694.1E6	162.180	177.500
6)	delta-BHC	11.78	12.02	33542.1E6	27983.5E6	189.902	195.270
7)	Aldrin	12.76	12.74	29991.5E6	22416.3E6	197.477	183.947
8)	Heptachlor Epoxi	13.87	13.79	24925.4E6	18364.1E6	179.704	177.698
9)	gamma-Chlordane	14.09	14.13	28416.2E6	21552.7E6	198.823	187.984
10)	alpha-Chlordane	14.33	14.39	26284.4E6	20399.6E6	197.851	184.963
11)	Endosulfan I	14.56	14.48	22146.0E6	15964.4E6	182.877	171.530
12)	4,4'-DDE	14.48	14.69	25881.1E6	19941.0E6	204.443	191.427
13)	Dieldrin	14.98	14.96	22624.1E6	19765.5E6	186.075	181.731
14)	Endrin	15.37	15.48	22639.0E6	16634.2E6	191.452	186.125
15)	4,4'-DDD	15.50	15.69	21194.2E6	16614.0E6	201.499	189.629
16)	Endosulfan II	15.75	15.85	20609.7E6	16141.1E6	177.177	173.997
17)	4,4'-DDT	15.96	16.19	22560.8E6	17325.4E6	193.873	200.465
18)	Endrin Aldehyde	16.41	16.38	15979.0E6	11769.2E6	175.685	159.653
19)	Endosulfan Sulfa	17.04	16.78	17294.0E6	13469.4E6	181.609	168.226
20)	Methoxychlor	16.70	17.17	9867.6E6	7439.0E6	181.362	181.556
21)	Endrin Ketone	17.41	17.49	19622.2E6	14657.1E6	182.462	173.823

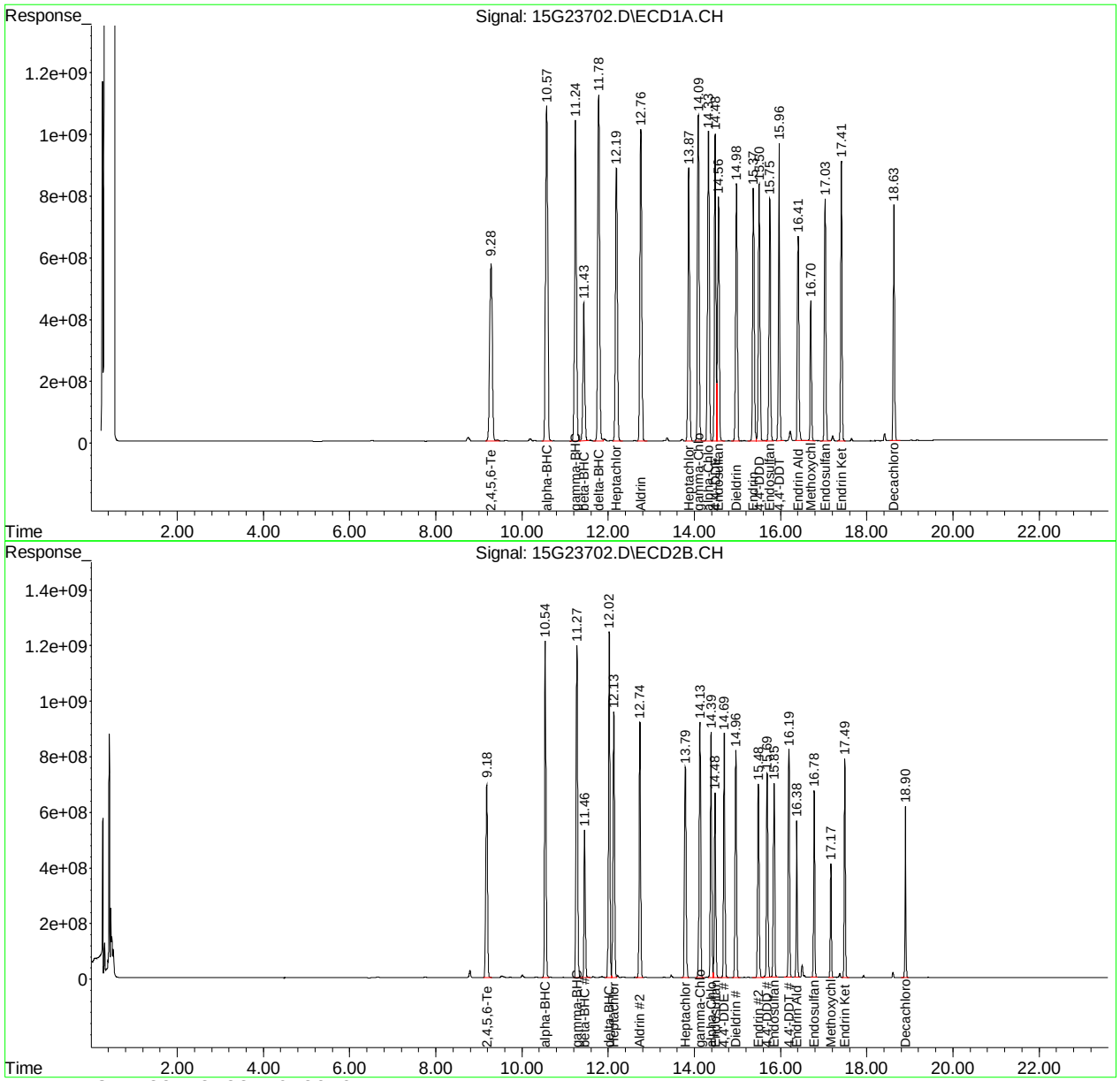
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23702.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 19:24 (#1); 27 Sep 2010 19:52 (#2)
Operator : ECL
Sample : WG343902-01 PEST ICAL 200 PPB
Misc : 1,1 STD40207
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:16:49 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:16:47 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23703.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 19:52 (#1); 27 Sep 2010 20:21 (#2)
Operator : ECL
Sample : WG343902-02 PEST ICAL 100 PPB
Misc : 1,1 STD40207
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:17:05 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:17:03 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

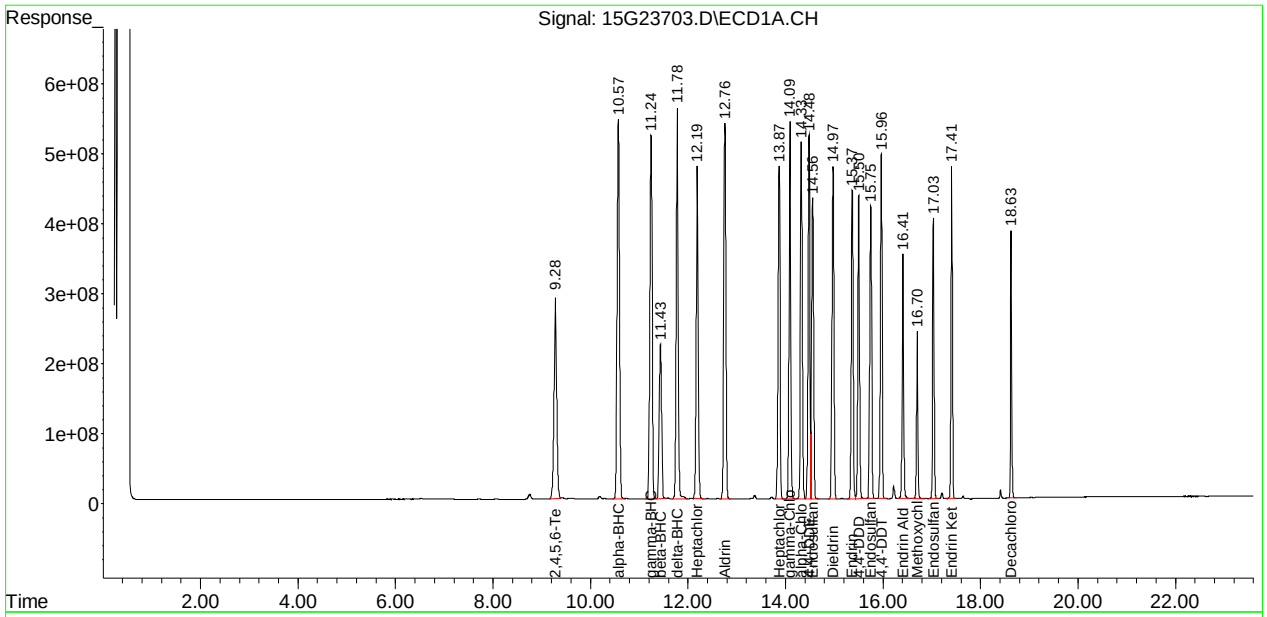
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.28	9.18	11302.6E6	9043.9E6	101.075	92.546
	Spiked Amount	20.000	Range 30 - 132		Recovery =	505.38%#	462.73%#
22) S	Decachlorobiphen	18.63	18.90	7016.8E6	5265.7E6	88.754	92.324
	Spiked Amount	20.000	Range 36 - 144		Recovery =	443.77%#	461.62%#
	Target Compounds						
2)	alpha-BHC	10.57	10.54	18039.0E6	14273.4E6	108.889	92.702
3)	gamma-BHC	11.24	11.28	16381.4E6	14076.6E6	100.235	96.738
4)	beta-BHC	11.43	11.46	6743.3E6	6001.0E6	86.724	92.822
5)	Heptachlor	12.19	12.13	14584.5E6	12630.2E6	87.752	94.390
6)	delta-BHC	11.78	12.02	16650.9E6	14214.4E6	96.931	99.626
7)	Aldrin	12.76	12.74	15543.1E6	11866.1E6	102.395	97.377
8)	Heptachlor Epoxi	13.87	13.79	13184.5E6	9636.5E6	94.918	93.883
9)	gamma-Chlordane	14.09	14.13	14316.4E6	11044.0E6	100.324	96.523
10)	alpha-Chlordane	14.33	14.39	13449.7E6	10447.9E6	101.446	94.892
11)	Endosulfan I	14.56	14.48	11749.3E6	8119.2E6	96.985	88.982
12)	4,4'-DDE	14.48	14.69	13215.4E6	10327.5E6	104.623	99.314
13)	Dieldrin	14.98	14.96	12613.3E6	10387.0E6	103.939	95.611
14)	Endrin	15.37	15.48	11852.4E6	8456.0E6	100.096	95.522
15)	4,4'-DDD	15.50	15.69	10716.1E6	8525.2E6	102.346	97.630
16)	Endosulfan II	15.75	15.85	10742.1E6	8460.9E6	92.339	91.391
17)	4,4'-DDT	15.96	16.19	11516.9E6	8864.5E6	98.919	102.328
18)	Endrin Aldehyde	16.41	16.38	8333.5E6	5990.5E6	91.646	82.420
19)	Endosulfan Sulfa	17.03	16.78	8739.2E6	6905.6E6	92.329	87.296
20)	Methoxychlor	16.70	17.17	5145.3E6	3827.7E6	94.192	92.990
21)	Endrin Ketone	17.41	17.49	10067.2E6	7608.1E6	94.069	91.014

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23703.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 19:52 (#1); 27 Sep 2010 20:21 (#2)
Operator : ECL
Sample : WG343902-02 PEST ICAL 100 PPB
Misc : 1,1 STD40207
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:17:05 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:17:03 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23704.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 20:21 (#1); 27 Sep 2010 20:49 (#2)
Operator : ECL
Sample : WG343902-03 PEST ICAL 20 PPB
Misc : 1,1 STD40207
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:17:24 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:17:22 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

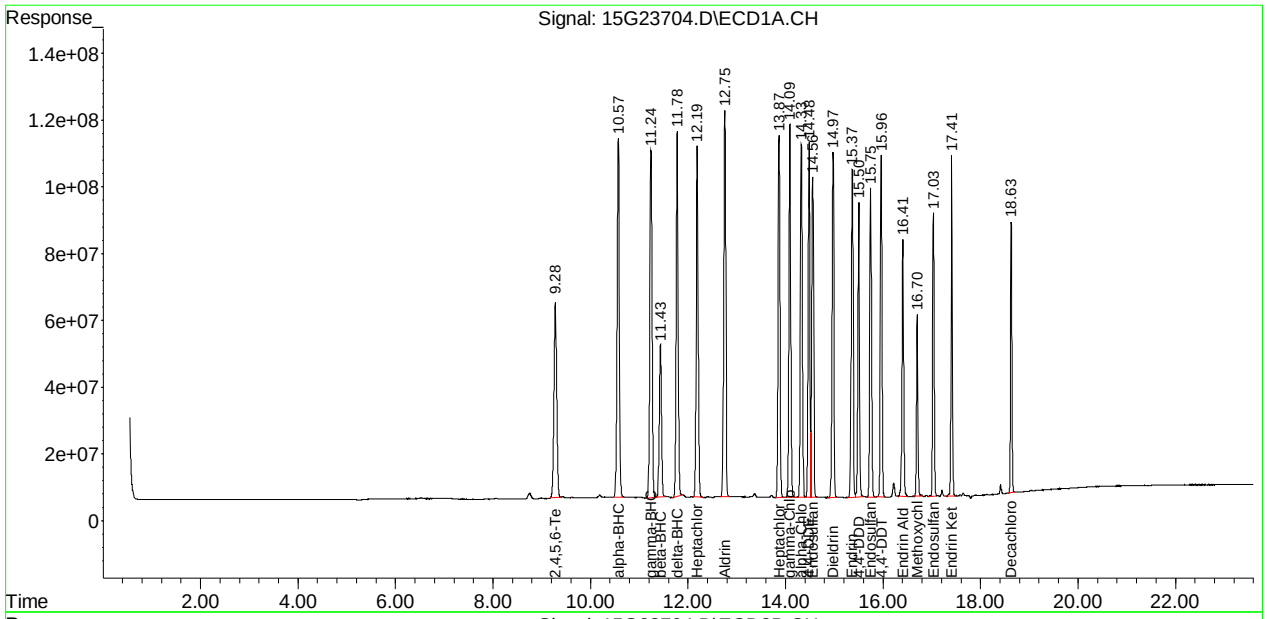
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.28	9.18	2307.2E6	1903.9E6	20.561	19.608
	Spiked Amount	20.000	Range 30 - 132		Recovery =	102.80%	98.04%
22) S	Decachlorobiphen	18.63	18.90	1530.5E6	1142.7E6	19.316	19.837
	Spiked Amount	20.000	Range 36 - 144		Recovery =	96.58%	99.19%
	Target Compounds						
2)	alpha-BHC	10.57	10.54	3487.0E6	2879.7E6	20.995	19.314
3)	gamma-BHC	11.24	11.28	3232.3E6	2902.9E6	20.177	20.176
4)	beta-BHC	11.43	11.46	1403.3E6	1277.6E6	18.534	19.873
5)	Heptachlor	12.19	12.13	3140.8E6	2793.6E6	19.339	20.861
6)	delta-BHC	11.78	12.02	3187.2E6	2897.2E6	19.134	20.458
7)	Aldrin	12.76	12.74	3238.4E6	2532.3E6	21.254	20.833
8)	Heptachlor Epoxi	13.87	13.79	2905.9E6	2179.9E6	20.834	21.359
9)	gamma-Chlordane	14.09	14.13	2937.3E6	2308.3E6	20.510	20.252
10)	alpha-Chlordane	14.33	14.39	2780.4E6	2188.6E6	20.897	19.971
11)	Endosulfan I	14.56	14.48	2578.3E6	1924.8E6	21.188	21.300
12)	4,4'-DDE	14.48	14.69	2666.9E6	2149.5E6	21.077	20.722
13)	Dieldrin	14.97	14.96	2693.8E6	2240.6E6	22.074	20.685
14)	Endrin	15.37	15.48	2536.2E6	1924.5E6	21.299	21.692
15)	4,4'-DDD	15.50	15.69	2169.1E6	1778.0E6	20.772	20.459
16)	Endosulfan II	15.75	15.85	2345.9E6	1867.2E6	20.111	20.224
17)	4,4'-DDT	15.96	16.19	2349.2E6	1839.4E6	20.074	21.107
18)	Endrin Aldehyde	16.41	16.38	1852.6E6	1414.0E6	20.309	19.575
19)	Endosulfan Sulfa	17.03	16.78	1846.4E6	1462.6E6	19.612	18.818
20)	Methoxychlor	16.70	17.17	1167.8E6	862.7E6	21.109	20.723
21)	Endrin Ketone	17.41	17.49	2165.3E6	1641.6E6	20.268	19.813

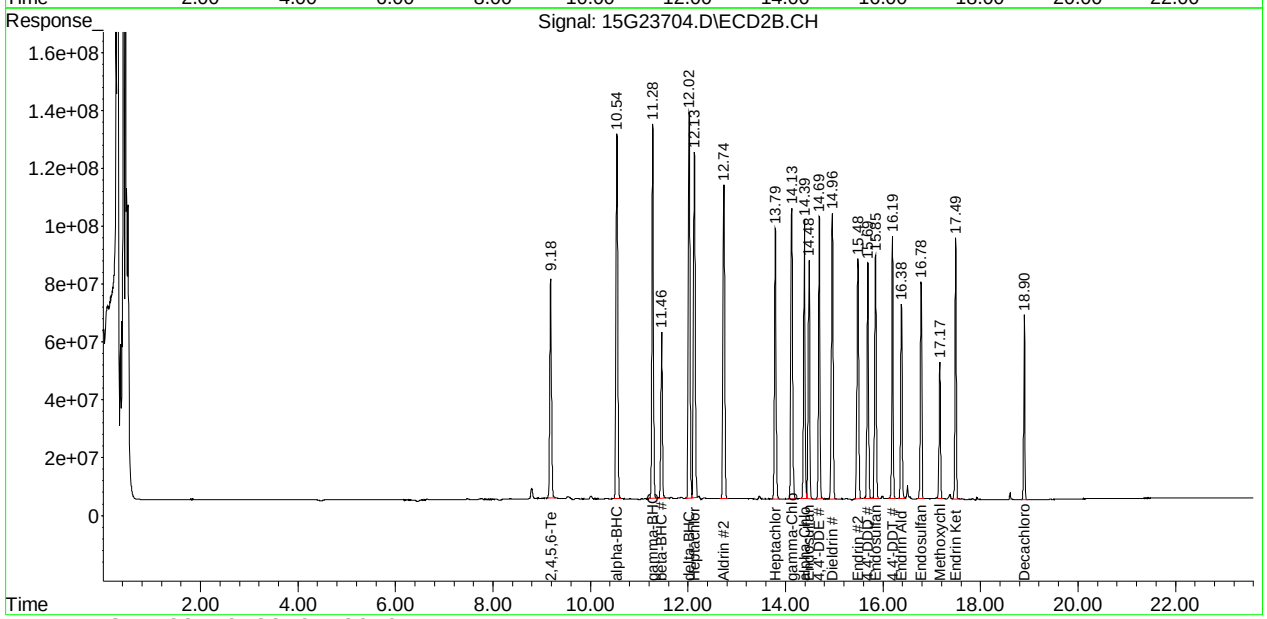
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23704.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 20:21 (#1); 27 Sep 2010 20:49 (#2)
Operator : ECL
Sample : WG343902-03 PEST ICAL 20 PPB
Misc : 1,1 STD40207
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:17:24 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:17:22 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23705.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 20:49 (#1); 27 Sep 2010 21:18 (#2)
Operator : ECL
Sample : WG343902-04 PEST ICAL 10 PPB
Misc : 1,1 STD40207
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:17:40 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:17:38 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

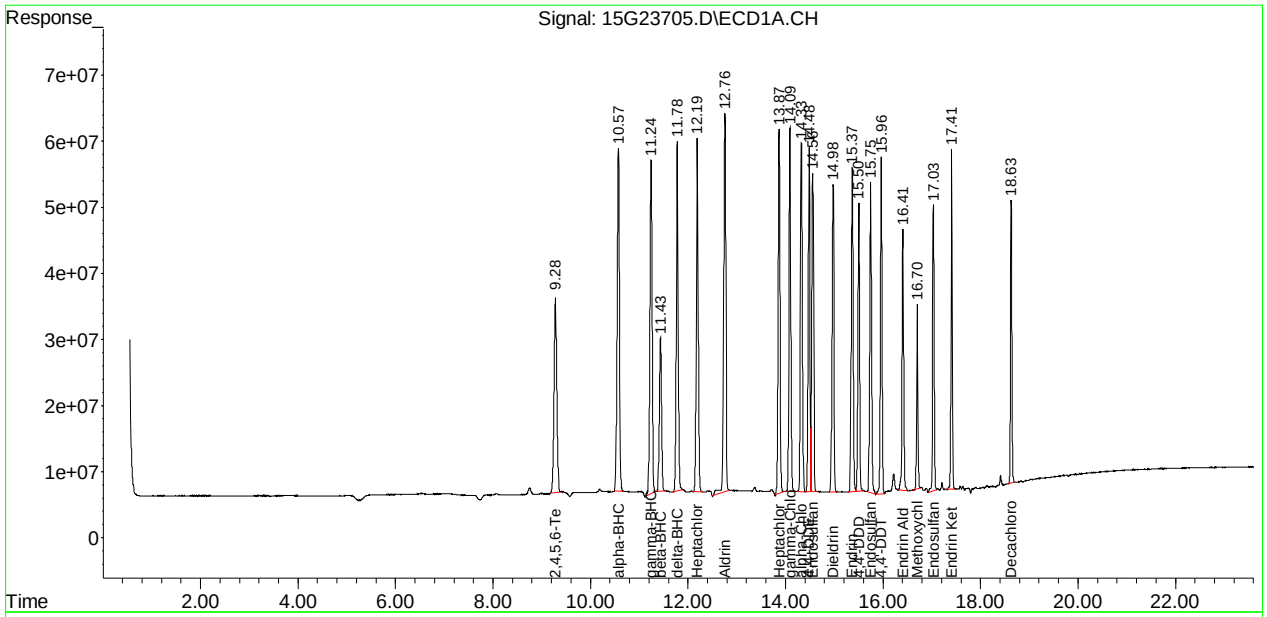
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.28	9.18	1161.3E6	962.6E6	10.318	9.952
	Spiked Amount	20.000	Range 30 - 132		Recovery =	51.59%	49.76%
22) S	Decachlorobiphen	18.63	18.90	811.0E6	603.9E6	10.221	10.375
	Spiked Amount	20.000	Range 36 - 144		Recovery =	51.11%	51.88%
	Target Compounds						
2)	alpha-BHC	10.57	10.54	1672.2E6	1406.5E6	10.062	9.701
3)	gamma-BHC	11.24	11.28	1594.7E6	1449.2E6	10.046	10.145
4)	beta-BHC	11.44	11.46	710.6E6	654.5E6	9.693	10.203
5)	Heptachlor	12.19	12.13	1575.7E6	1416.6E6	9.947	10.539
6)	delta-BHC	11.78	12.03	1526.7E6	1420.6E6	9.452	10.084
7)	Aldrin	12.76	12.74	1663.6E6	1266.4E6	10.852	10.410
8)	Heptachlor Epoxi	13.87	13.79	1480.7E6	1099.8E6	10.604	10.623
9)	gamma-Chlordane	14.09	14.13	1478.3E6	1159.0E6	10.284	10.179
10)	alpha-Chlordane	14.33	14.39	1364.7E6	1109.6E6	10.170	10.132
11)	Endosulfan I	14.56	14.48	1296.0E6	963.5E6	10.607	10.578
12)	4,4'-DDE	14.48	14.69	1298.3E6	1069.7E6	10.262	10.305
13)	Dieldrin	14.98	14.96	1217.4E6	1126.8E6	9.955	10.401
14)	Endrin	15.37	15.49	1262.3E6	951.8E6	10.560	10.601
15)	4,4'-DDD	15.50	15.69	1059.2E6	881.8E6	10.194	10.175
16)	Endosulfan II	15.75	15.85	1210.3E6	955.3E6	10.398	10.351
17)	4,4'-DDT	15.96	16.20	1188.3E6	915.0E6	10.153	10.414
18)	Endrin Aldehyde	16.41	16.38	954.1E6	725.8E6	10.446	10.190
19)	Endosulfan Sulfa	17.03	16.78	951.8E6	731.4E6	10.151	9.603
20)	Methoxychlor	16.70	17.17	590.7E6	452.0E6	10.597	10.703
21)	Endrin Ketone	17.41	17.49	1096.9E6	826.3E6	10.318	10.055

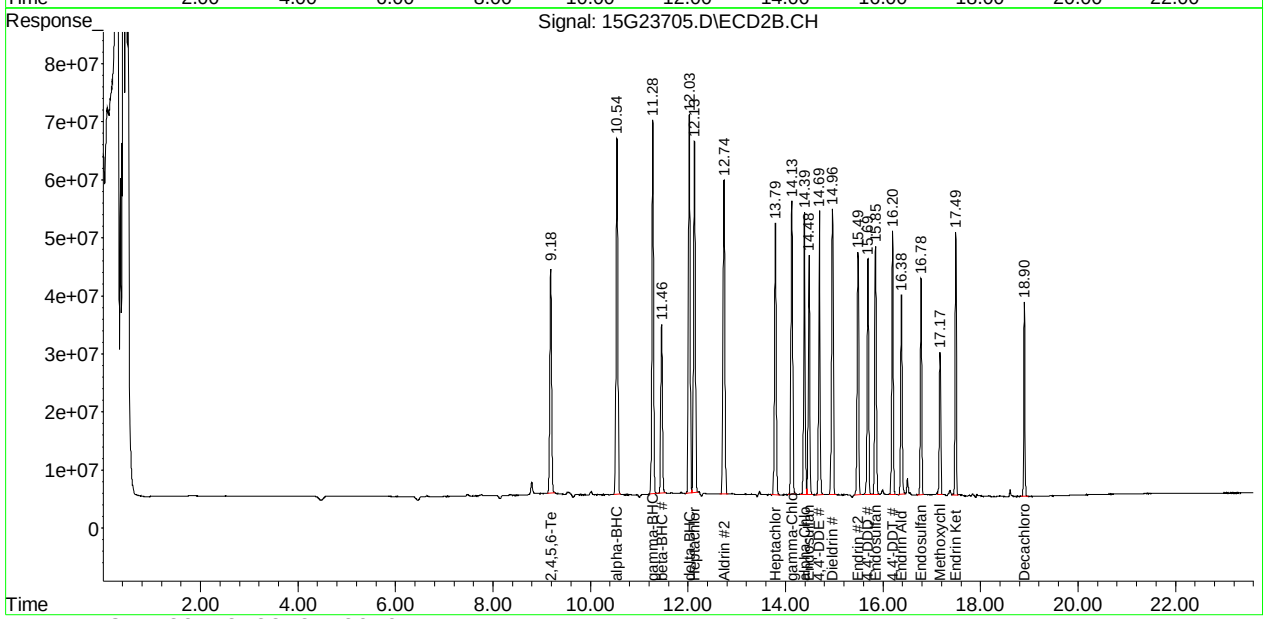
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23705.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 20:49 (#1); 27 Sep 2010 21:18 (#2)
Operator : ECL
Sample : WG343902-04 PEST ICAL 10 PPB
Misc : 1,1 STD40207
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:17:40 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:17:38 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23706.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 21:18 (#1); 27 Sep 2010 21:46 (#2)
Operator : ECL
Sample : WG343902-05 PEST ICAL 4 PPB
Misc : 1,1 STD40207
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:18:00 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:17:58 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.28	9.18	447.9E6	394.4E6	3.961	4.112
	Spiked Amount	20.000	Range 30 - 132		Recovery =	19.81%#	20.56%#
22) S	Decachlorobiphen	18.63	18.90	346.4E6	259.9E6	4.345	4.399
	Spiked Amount	20.000	Range 36 - 144		Recovery =	21.73%#	22.00%#
	Target Compounds						
2)	alpha-BHC	10.57	10.54	611.4E6	539.8E6	3.666	3.808
3)	gamma-BHC	11.24	11.28	583.0E6	558.6E6	3.674	3.946
4)	beta-BHC	11.44	11.46	282.5E6	270.4E6	3.939	4.222
5)	Heptachlor	12.19	12.13	617.6E6	570.6E6	3.979	4.224
6)	delta-BHC	11.78	12.03	562.2E6	546.2E6	3.575	3.900
7)	Aldrin	12.76	12.74	606.9E6	499.5E6	3.929	4.097
8)	Heptachlor Epoxi	13.87	13.79	585.7E6	452.5E6	4.156	4.331
9)	gamma-Chlordane	14.09	14.13	590.9E6	462.8E6	4.067	4.070
10)	alpha-Chlordane	14.33	14.39	544.8E6	450.8E6	4.033	4.116
11)	Endosulfan I	14.56	14.48	511.9E6	408.6E6	4.147	4.447
12)	4,4'-DDE	14.49	14.69	489.7E6	418.2E6	3.851	4.020
13)	Dieldrin	14.98	14.96	498.8E6	447.7E6	4.063	4.125
14)	Endrin	15.37	15.49	487.9E6	390.3E6	4.053	4.281
15)	4,4'-DDD	15.51	15.69	399.1E6	345.5E6	3.843	3.995
16)	Endosulfan II	15.75	15.85	485.2E6	389.4E6	4.141	4.217
17)	4,4'-DDT	15.97	16.19	450.8E6	359.7E6	3.842	4.051
18)	Endrin Aldehyde	16.41	16.38	393.7E6	316.4E6	4.315	4.450
19)	Endosulfan Sulfa	17.04	16.78	391.9E6	293.8E6	4.177	3.953
20)	Methoxychlor	16.71	17.17	239.3E6	193.0E6	4.250	4.472
21)	Endrin Ketone	17.41	17.49	450.8E6	333.1E6	4.221	4.088

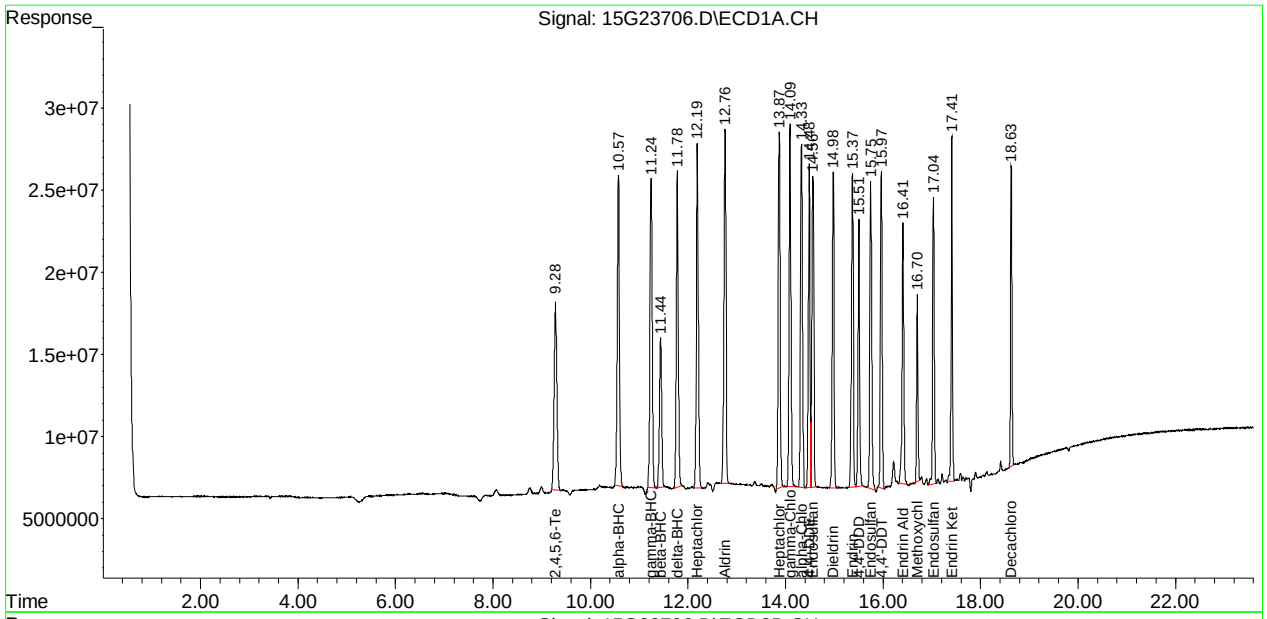
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

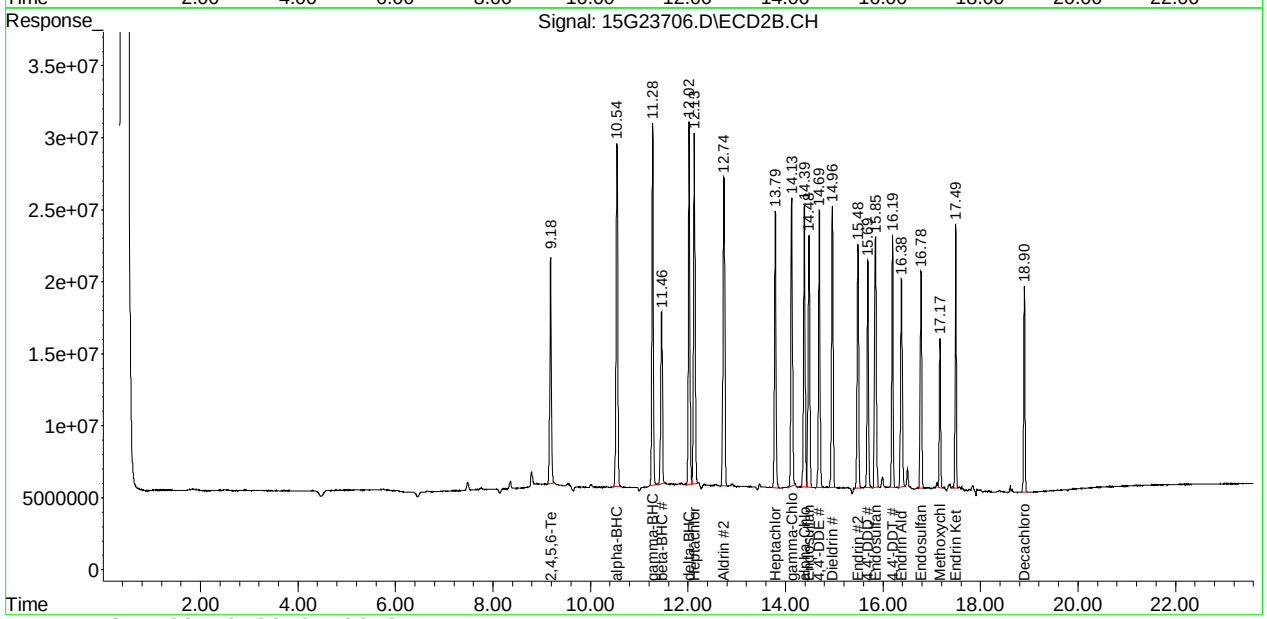
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23706.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 21:18 (#1); 27 Sep 2010 21:46 (#2)
Operator : ECL
Sample : WG343902-05 PEST ICAL 4 PPB
Misc : 1,1 STD40207
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:18:00 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:17:58 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23707.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 21:46 (#1); 27 Sep 2010 22:14 (#2)
Operator : ECL
Sample : WG343902-06 PEST ICAL 1 PPB
Misc : 1,1 STD40207
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:20:07 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:18:56 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.28	9.18	111.1E6	103.8E6	0.977	1.087
	Spiked Amount	20.000	Range 30 - 132		Recovery =	4.88%#	5.43%#
22) S	Decachlorobiphen	18.63	18.90	96397305	73528664	1.203	1.221
	Spiked Amount	20.000	Range 36 - 144		Recovery =	6.02%#	6.11%#
	Target Compounds						
2)	alpha-BHC	10.57	10.54	143.7E6	129.0E6	0.861	0.931
3)	gamma-BHC	11.24	11.27	139.1E6	139.8E6	0.892	0.990
4)	beta-BHC	11.44	11.46	71641717	70498702	1.026	1.095
5)	Heptachlor	12.19	12.13	156.3E6	149.6E6	1.031	1.097
6)	delta-BHC	11.78	12.02	131.4E6	133.0E6	0.858	0.952
7)	Aldrin	12.76	12.74	146.3E6	127.1E6	0.942	1.036
8)	Heptachlor Epoxi	13.87	13.79	155.4E6	111.8E6	1.095	1.061
9)	gamma-Chlordane	14.09	14.13	161.7E6	117.2E6	1.091	1.030
10)	alpha-Chlordane	14.33	14.39	137.8E6	119.7E6	1.014	1.089
11)	Endosulfan I	14.56	14.48	131.5E6	103.1E6	1.057	1.107
12)	4,4'-DDE	14.48	14.69	119.1E6	106.2E6	0.933	1.014
13)	Dieldrin	14.98	14.96	124.5E6	115.3E6	1.003	1.057
14)	Endrin	15.37	15.48	121.5E6	96794745	1.001	1.049
15)	4,4'-DDD	15.50	15.69	95781392	88232424	0.922	1.018
16)	Endosulfan II	15.75	15.85	142.7E6	103.4E6	1.201	1.118
17)	4,4'-DDT	15.96	16.19	132.5E6	91287819	1.120	1.014
18)	Endrin Aldehyde	16.41	16.38	97215007	86240097	1.026m	1.170m
19)	Endosulfan Sulfa	17.03	16.78	114.3E6	76367184	1.196	1.059
20)	Methoxychlor	16.70	17.17	60580494	55282548	1.073	1.241
21)	Endrin Ketone	17.41	17.49	124.3E6	86651814	1.141	1.074

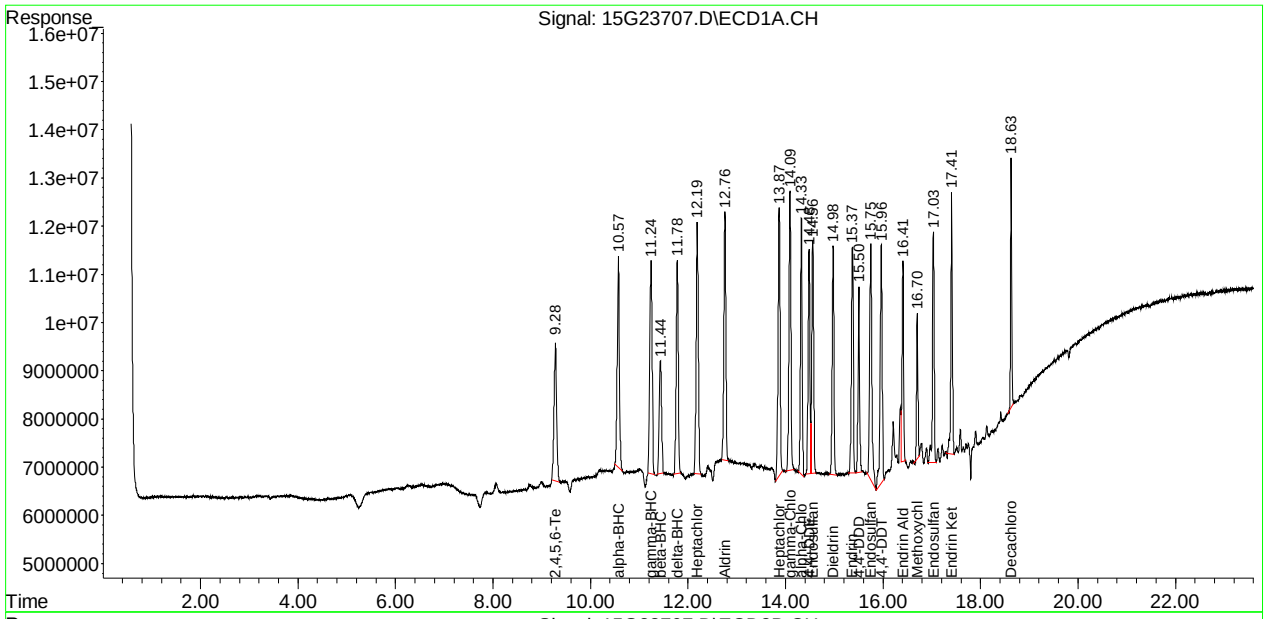
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23707.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 21:46 (#1); 27 Sep 2010 22:14 (#2)
Operator : ECL
Sample : WG343902-06 PEST ICAL 1 PPB
Misc : 1,1 STD40207
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:20:07 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:18:56 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

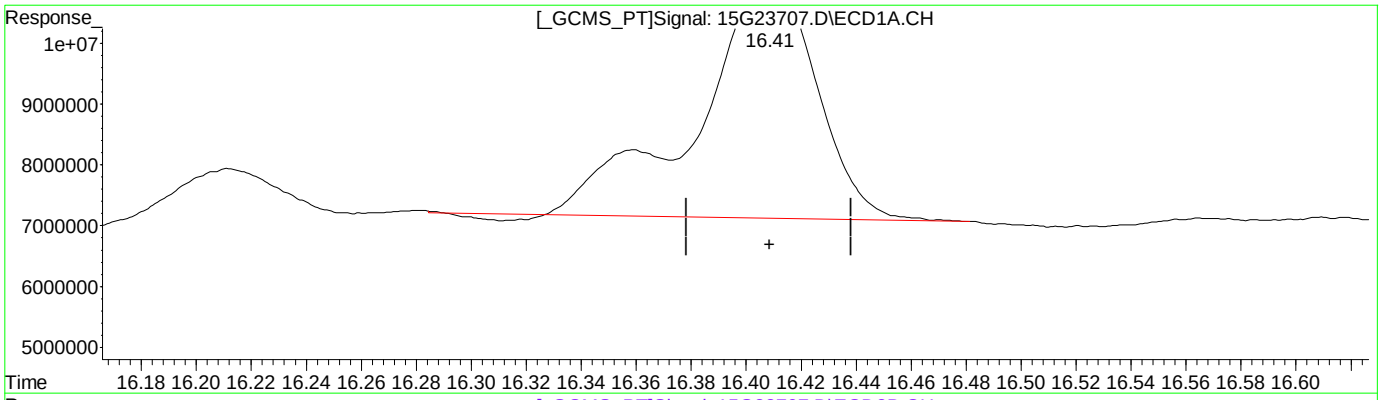


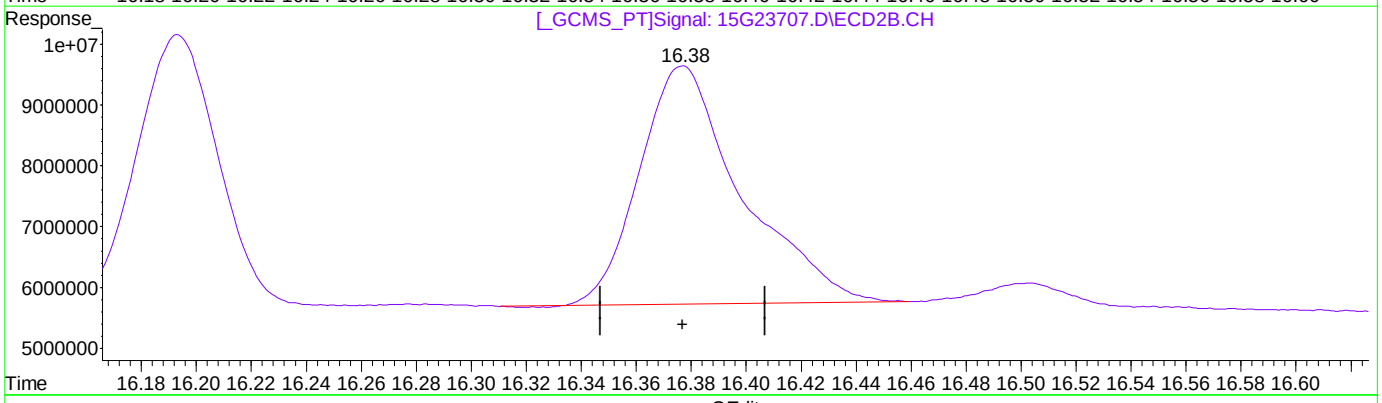
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\092710\
Data File : 15G23707.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 27 Sep 2010 21:46 (#1); 27 Sep 2010 22:14 (#2)
Operator : ECL
Sample   : WG343902-06 PEST ICAL 1 PPB
Misc   : 1,1 STD40207
ALS Vial : 13   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:18:58 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:18:56 2010
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :





QEdit

(18) Endrin Aldehyde

16.41min 1.256UG/L

response 119025064

(18) Endrin Aldehyde #2

16.38min 1.371UG/L

response 101021676

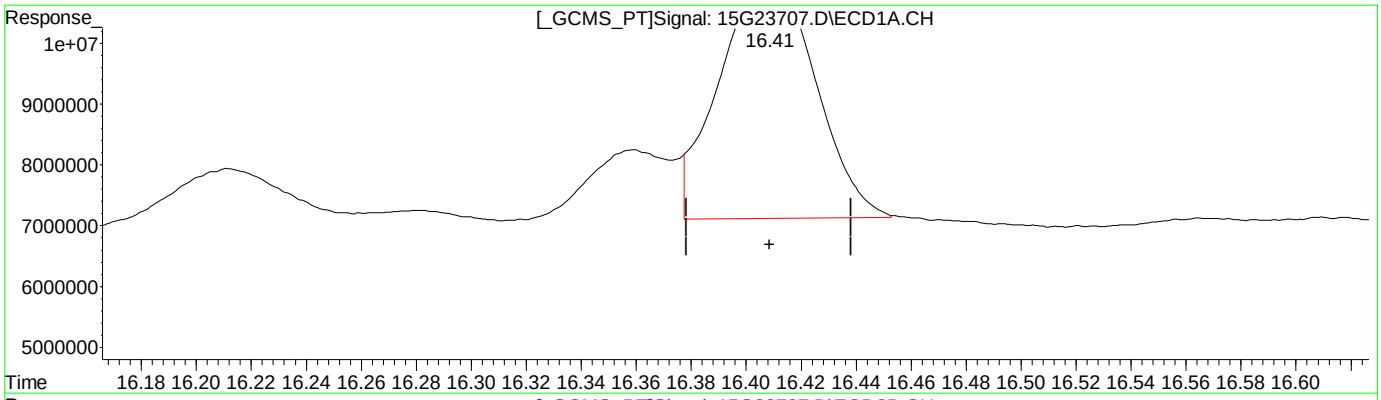
(+) = Expected Retention Time

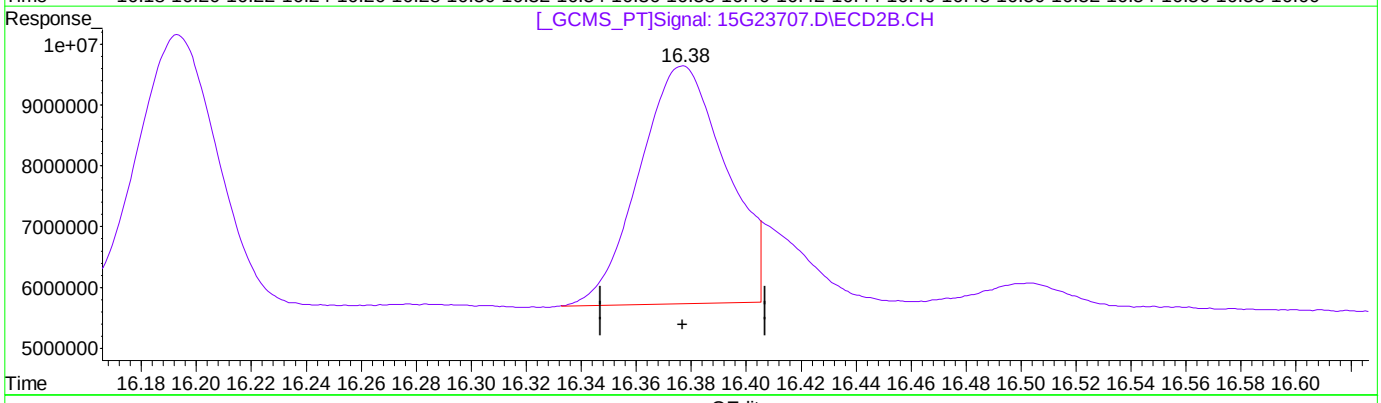
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\092710\
Data File : 15G23707.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 27 Sep 2010 21:46 (#1); 27 Sep 2010 22:14 (#2)
Operator : ECL
Sample   : WG343902-06 PEST ICAL 1 PPB
Misc   : 1,1 STD40207
ALS Vial : 13   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:18:58 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:18:56 2010
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :





QEdit

(18) Endrin Aldehyde

16.41min 1.026UG/L mint

response 97215007

(18) Endrin Aldehyde #2

16.38min 1.170UG/L mint

response 86240097

(+) = Expected Retention Time
8081.M Tue Sep 28 12:20:11 2010

Analyst: 09/28/2010 14:43 Supervisor: 10/01/2010 14:01

Page: 1

#2 - Data system splits the peak incorrectly or integrates a false peak as a rider peak

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23708.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 22:14 (#1); 27 Sep 2010 22:43 (#2)
Operator : ECL
Sample : WG343902-07 PEST ALT 20 PPB
Misc : 1,1 STD38730
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:21:13 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:20:31 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

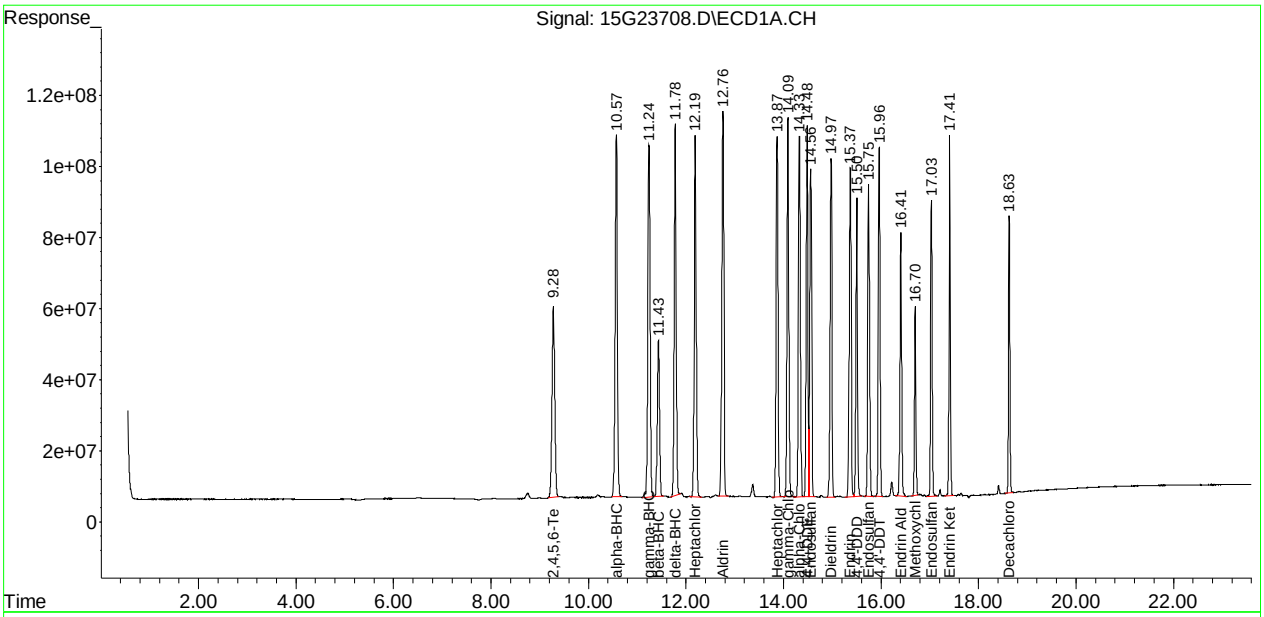
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.28	9.18	2115.1E6	1760.0E6	18.597	18.440
	Spiked Amount	20.000	Range 30 - 132		Recovery =	92.99%	92.20%
22) S	Decachlorobiphen	18.63	18.90	1452.1E6	1080.5E6	18.121	17.940
	Spiked Amount	20.000	Range 36 - 144		Recovery =	90.60%	89.70%
	Target Compounds						
2)	alpha-BHC	10.57	10.54	3314.0E6	2754.1E6	19.855	19.873
3)	gamma-BHC	11.24	11.28	3094.7E6	2776.1E6	19.850	19.658
4)	beta-BHC	11.43	11.46	1362.6E6	1257.6E6	19.511	19.529
5)	Heptachlor	12.19	12.13	3011.2E6	2693.2E6	19.872	19.745
6)	delta-BHC	11.78	12.02	3013.6E6	2770.1E6	19.693	19.820
7)	Aldrin	12.76	12.74	3054.4E6	2402.4E6	19.671	19.585
8)	Heptachlor Epoxi	13.87	13.79	2734.8E6	2087.7E6	19.266	19.819
9)	gamma-Chlordane	14.09	14.13	2812.3E6	2197.2E6	18.972	19.319
10)	alpha-Chlordane	14.33	14.39	2659.1E6	2098.3E6	19.568	19.096
11)	Endosulfan I	14.56	14.48	2480.2E6	1843.7E6	19.943	19.796
12)	4,4'-DDE	14.48	14.69	2602.7E6	2112.4E6	20.379	20.178
13)	Dieldrin	14.98	14.96	2475.9E6	2098.6E6	19.943	19.234
14)	Endrin	15.37	15.48	2402.7E6	1818.1E6	19.795	19.708
15)	4,4'-DDD	15.50	15.69	2058.3E6	1690.7E6	19.820	19.508
16)	Endosulfan II	15.75	15.85	2218.5E6	1769.7E6	18.674	19.133
17)	4,4'-DDT	15.96	16.19	2255.1E6	1766.9E6	19.071	19.633
18)	Endrin Aldehyde	16.41	16.38	1751.1E6	1565.9E6	19.211	21.985
19)	Endosulfan Sulfa	17.03	16.78	1804.0E6	1400.5E6	18.868	19.430
20)	Methoxychlor	16.70	17.17	1124.9E6	849.5E6	19.929	19.065
21)	Endrin Ketone	17.41	17.49	2168.6E6	1628.4E6	19.903	20.187

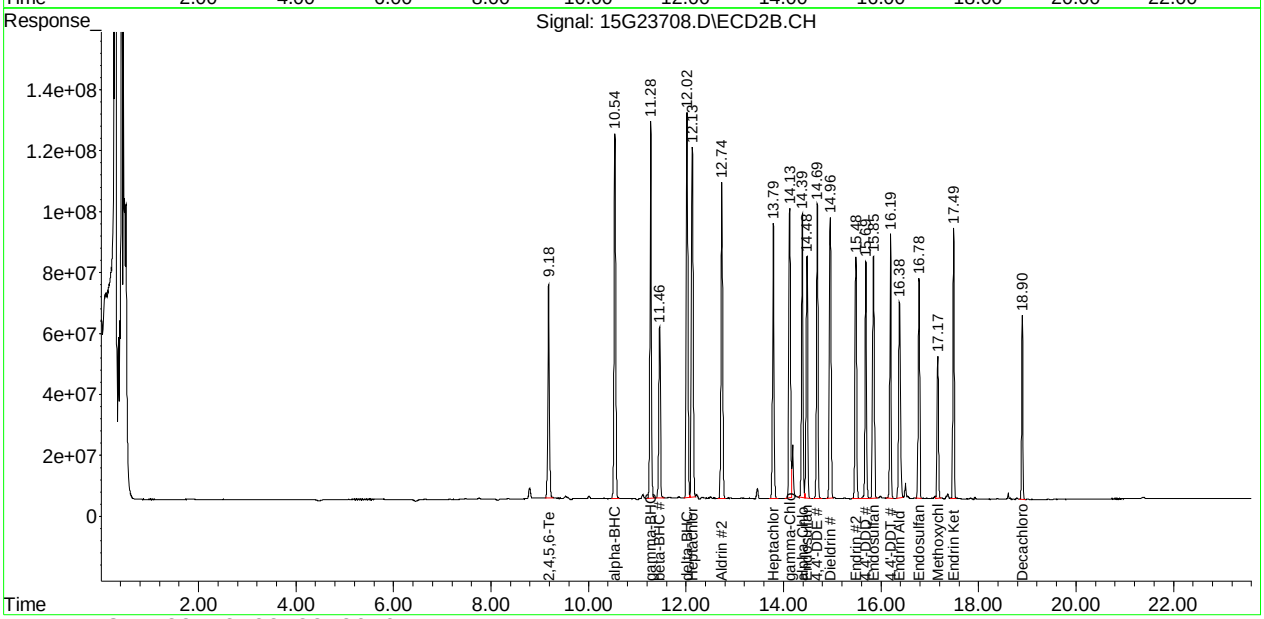
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23708.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 22:14 (#1); 27 Sep 2010 22:43 (#2)
Operator : ECL
Sample : WG343902-07 PEST ALT 20 PPB
Misc : 1,1 STD38730
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:21:13 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:20:31 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23696.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 16:34 (#1); 27 Sep 2010 17:02 (#2)
Operator : ECL
Sample : WG343903-01 TOX ICAL 2000 PPB
Misc : 1,1 STD40827
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Sep 28 10:42:12 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Tue Sep 28 10:40:55 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	Target Compounds						
1)	L1 Toxaphene-1	15.29	14.93	4675.3E6	1731.6E6	2057.738	1813.515
2)	L1 Toxaphene-2	15.94	15.98	3427.3E6	5887.3E6	1955.600	1844.529
3)	L1 Toxaphene-3	16.90	16.77	5834.6E6	1779.9E6	1987.564	1849.556
4)	L1 Toxaphene-4	17.13	17.11	2687.6E6	4091.5E6	2023.666	1876.894
5)	L1 Toxaphene-5	17.59	17.62	2769.1E6	1658.1E6	2036.688	1862.576
	Sum Toxaphene-1			19394.0E6	15148.4E6	10061.257	9247.069
	Average Toxaphene-1					2012.251	1849.414

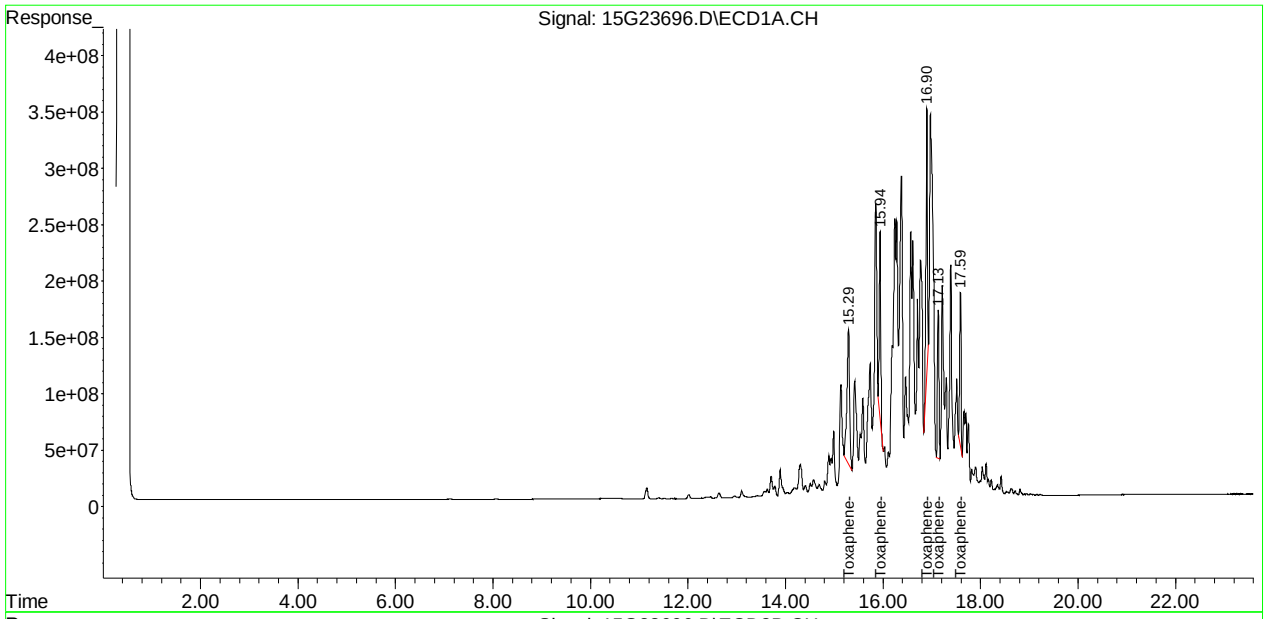
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

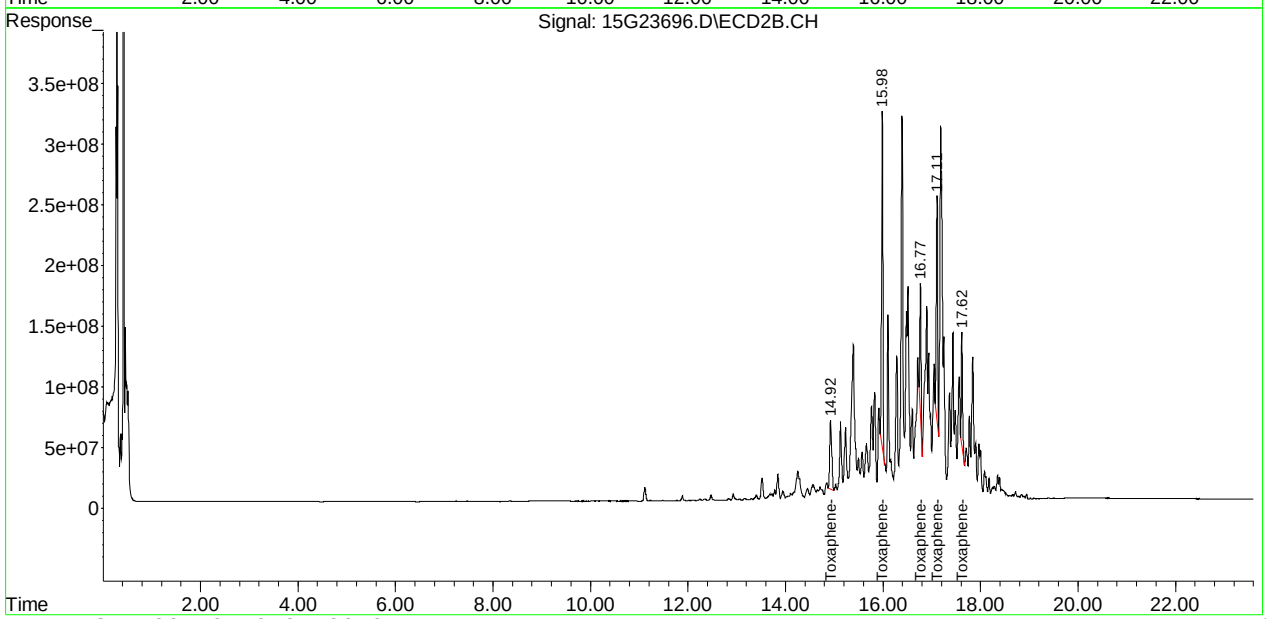
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23696.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 16:34 (#1); 27 Sep 2010 17:02 (#2)
Operator : ECL
Sample : WG343903-01 TOX ICAL 2000 PPB
Misc : 1,1 STD40827
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Sep 28 10:42:12 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Tue Sep 28 10:40:55 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23697.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 17:02 (#1); 27 Sep 2010 17:30 (#2)
Operator : ECL
Sample : WG343903-02 TOX ICAL 1000 PPB
Misc : 1,1 STD40827
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Sep 28 10:42:16 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Tue Sep 28 10:40:55 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	Target Compounds						
1)	L1 Toxaphene-1	15.29	14.92	2330.9E6	933.8E6	1025.894	977.986
2)	L1 Toxaphene-2	15.94	15.98	1786.5E6	3188.8E6	1019.382	999.083
3)	L1 Toxaphene-3	16.90	16.77	2863.8E6	969.0E6	975.550	1006.933
4)	L1 Toxaphene-4	17.13	17.11	1346.6E6	2027.7E6	1013.981	930.176
5)	L1 Toxaphene-5	17.59	17.62	1377.6E6	880.7E6	1013.246	989.312
	Sum Toxaphene-1			9705.5E6	8000.1E6	5048.053	4903.489
Average	Toxaphene-1					1009.611	980.698

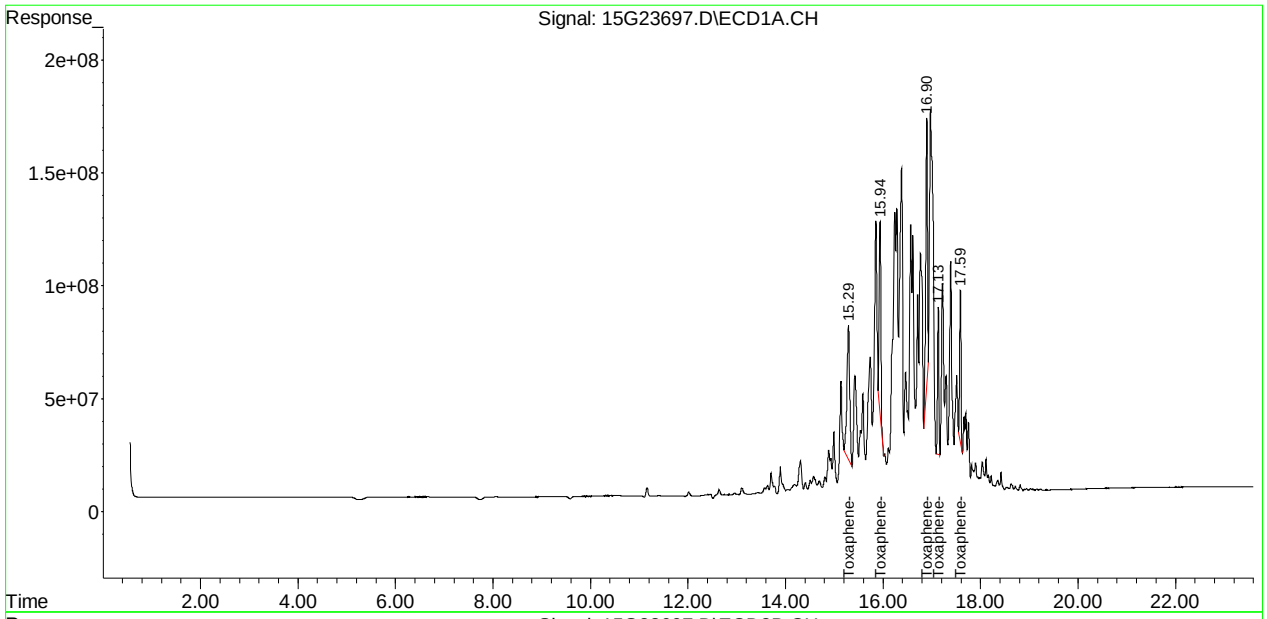
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

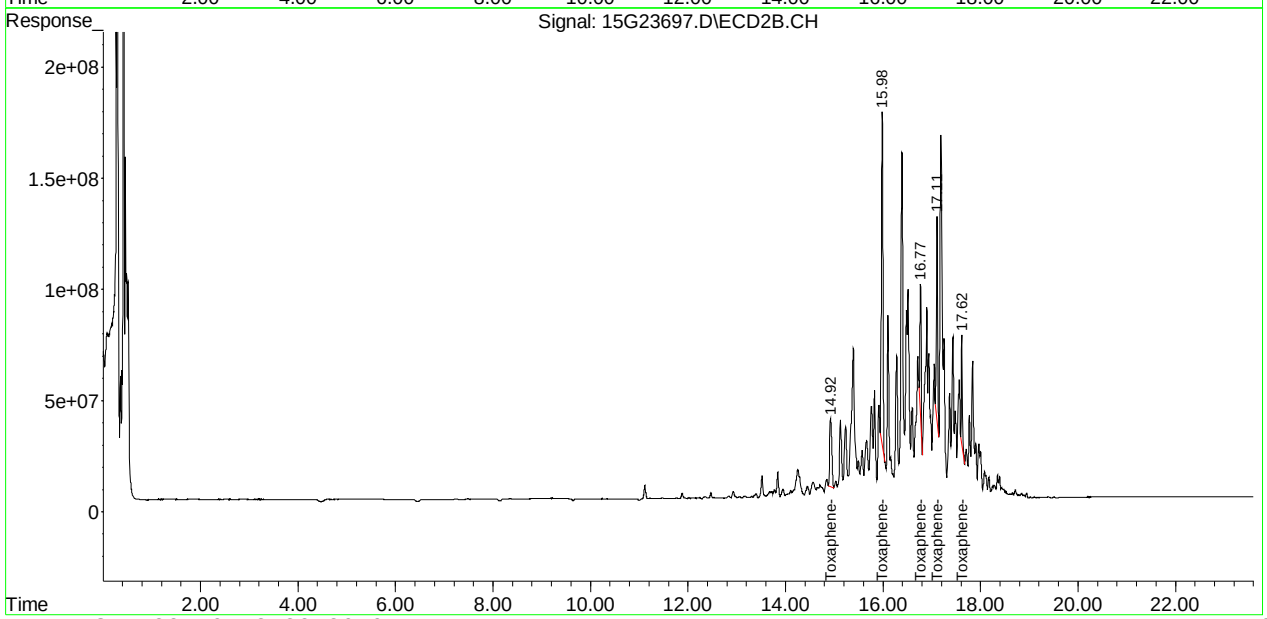
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23697.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 17:02 (#1); 27 Sep 2010 17:30 (#2)
Operator : ECL
Sample : WG343903-02 TOX ICAL 1000 PPB
Misc : 1,1 STD40827
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Sep 28 10:42:16 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Tue Sep 28 10:40:55 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





TOX.M Tue Sep 28 10:42:38 2010 Page: 2

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23698.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 17:30 (#1); 27 Sep 2010 17:59 (#2)
Operator : ECL
Sample : WG343903-03 TOX ICAL 500 PPB
Misc : 1,1 STD40827
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Sep 28 10:39:25 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Tue Sep 28 10:39:23 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
Target Compounds						
1) L1 Toxaphene-1	15.29	14.93	1166.3E6	481.4E6	509.711	484.687
2) L1 Toxaphene-2	15.94	15.98	885.8E6	1629.0E6	505.723	511.929
3) L1 Toxaphene-3	16.90	16.77	1509.6E6	497.7E6	527.095	515.668
4) L1 Toxaphene-4	17.13	17.11	678.2E6	1150.1E6	515.952	546.528
5) L1 Toxaphene-5	17.59	17.62	697.3E6	449.3E6	532.715	470.123
Sum Toxaphene-1			4937.2E6	4207.5E6	2591.196	2528.935
Average Toxaphene-1					518.239	505.787

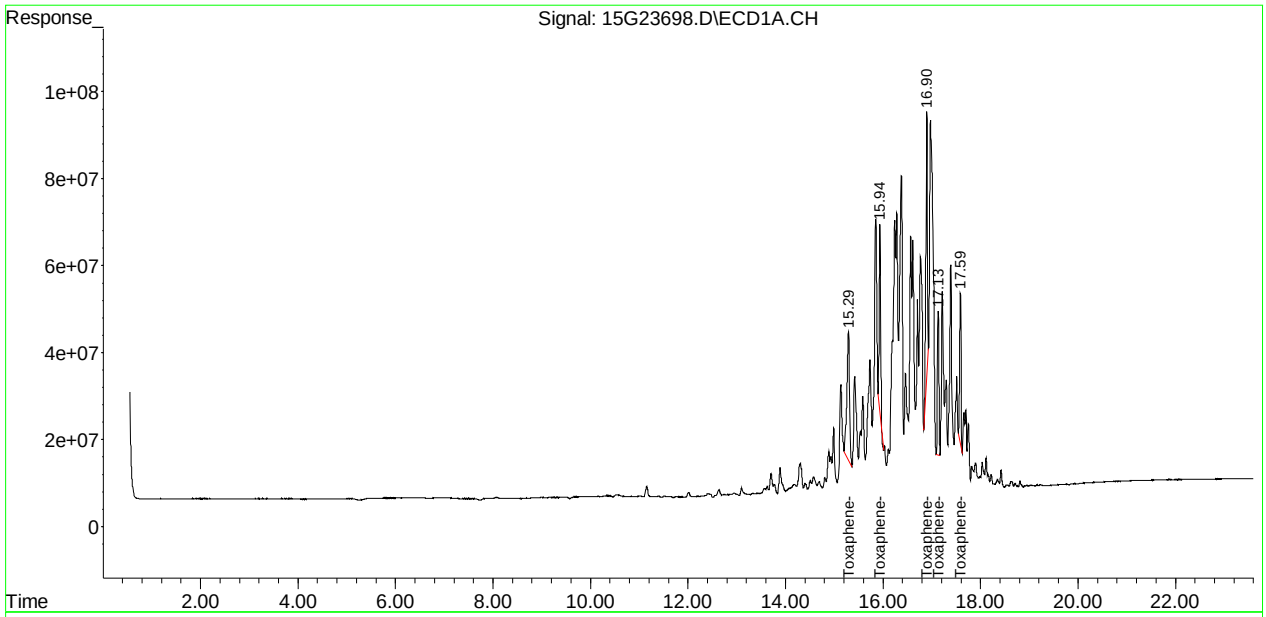
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

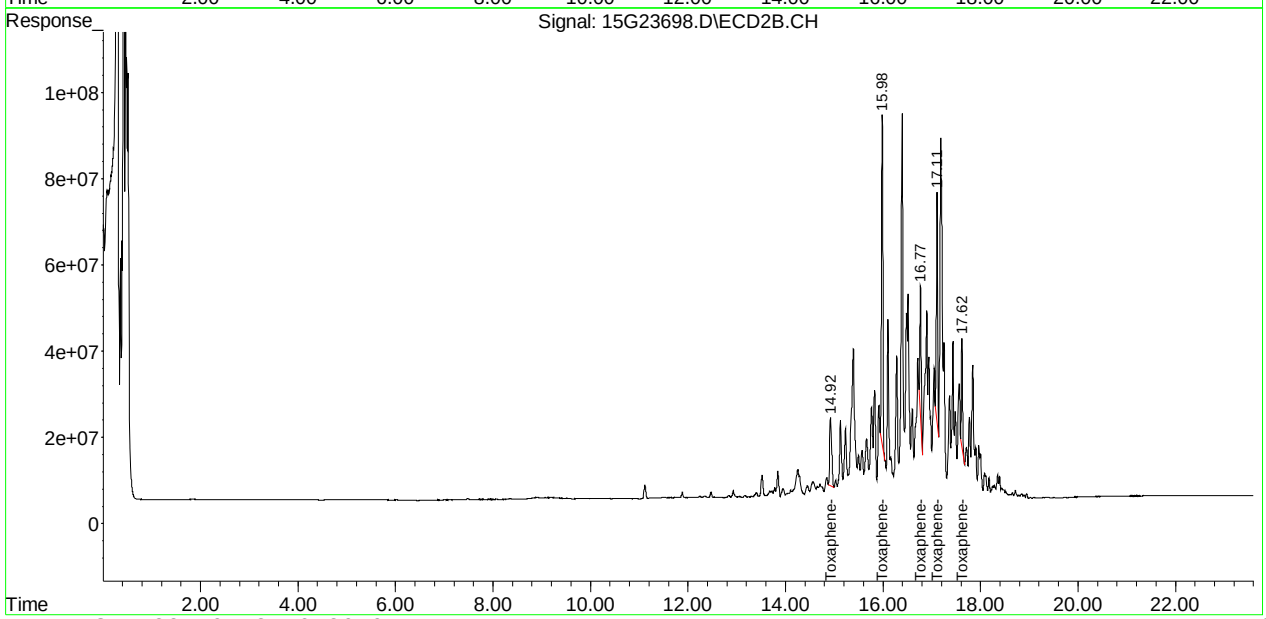
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23698.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 17:30 (#1); 27 Sep 2010 17:59 (#2)
Operator : ECL
Sample : WG343903-03 TOX ICAL 500 PPB
Misc : 1,1 STD40827
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Sep 28 10:39:25 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Tue Sep 28 10:39:23 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23699.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 17:59 (#1); 27 Sep 2010 18:27 (#2)
Operator : ECL
Sample : WG343903-04 TOX ICAL 200 PPB
Misc : 1,1 STD40827
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Sep 28 10:40:43 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Tue Sep 28 10:40:42 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	Target Compounds						
1)	L1 Toxaphene-1	15.29	14.93	432.0E6	195.9E6	190.243	199.925
2)	L1 Toxaphene-2	15.94	15.98	354.4E6	643.9E6	201.119	201.960
3)	L1 Toxaphene-3	16.90	16.77	573.4E6	193.0E6	199.960	200.024
4)	L1 Toxaphene-4	17.13	17.11	256.4E6	438.9E6	195.244	208.825
5)	L1 Toxaphene-5	17.59	17.62	260.2E6	179.4E6	196.520	191.384
	Sum Toxaphene-1			1876.5E6	1651.0E6	983.086	1002.118
Average	Toxaphene-1					196.617	200.424

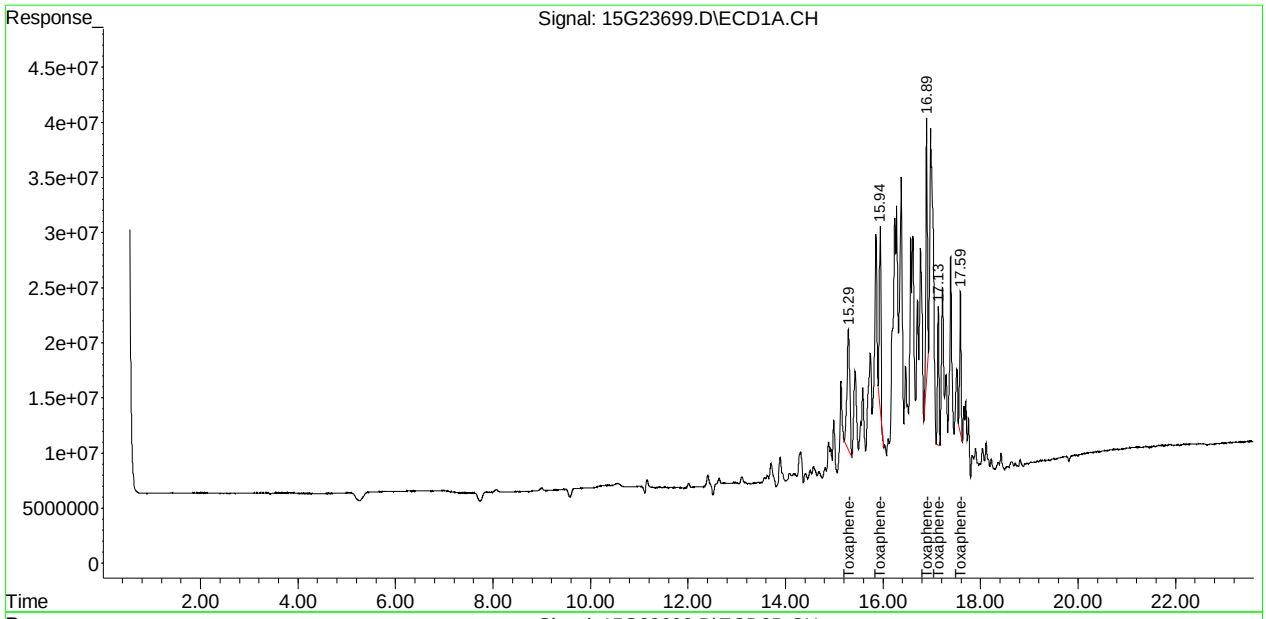
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

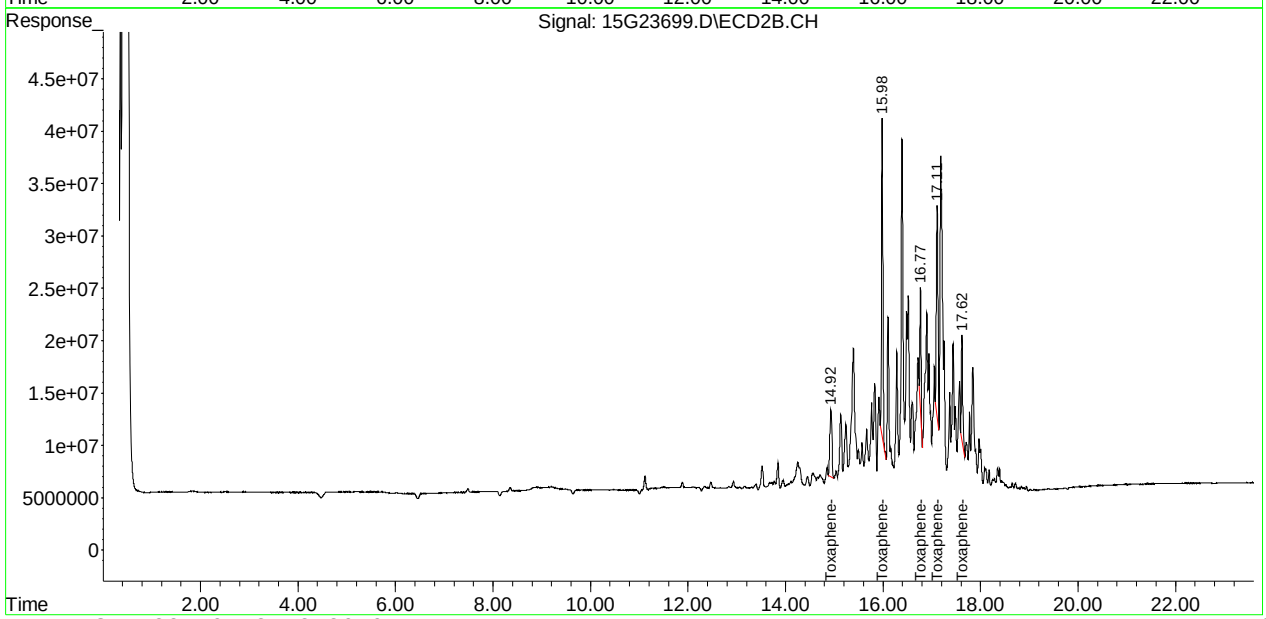
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23699.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 17:59 (#1); 27 Sep 2010 18:27 (#2)
Operator : ECL
Sample : WG343903-04 TOX ICAL 200 PPB
Misc : 1,1 STD40827
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Sep 28 10:40:43 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Tue Sep 28 10:40:42 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





TOX.M Tue Sep 28 10:42:42 2010 Page: 2

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23700.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 18:27 (#1); 27 Sep 2010 18:55 (#2)
Operator : ECL
Sample : WG343903-05 TOX ICAL 100 PPB
Misc : 1,1 STD40827
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Sep 28 10:40:57 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Tue Sep 28 10:40:55 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	Target Compounds						
1)	L1 Toxaphene-1	15.29	14.92	219.9E6	103.2E6	96.787	108.132
2)	L1 Toxaphene-2	15.94	15.98	171.9E6	334.9E6	98.080	104.922
3)	L1 Toxaphene-3	16.90	16.77	301.1E6	99244709	102.556	103.129
4)	L1 Toxaphene-4	17.13	17.11	131.2E6	233.2E6	98.755	106.966
5)	L1 Toxaphene-5	17.59	17.62	134.0E6	94559756	98.563	106.223
	Sum Toxaphene-1			958.0E6	865.1E6	494.742	529.373
Average	Toxaphene-1					98.948	105.875

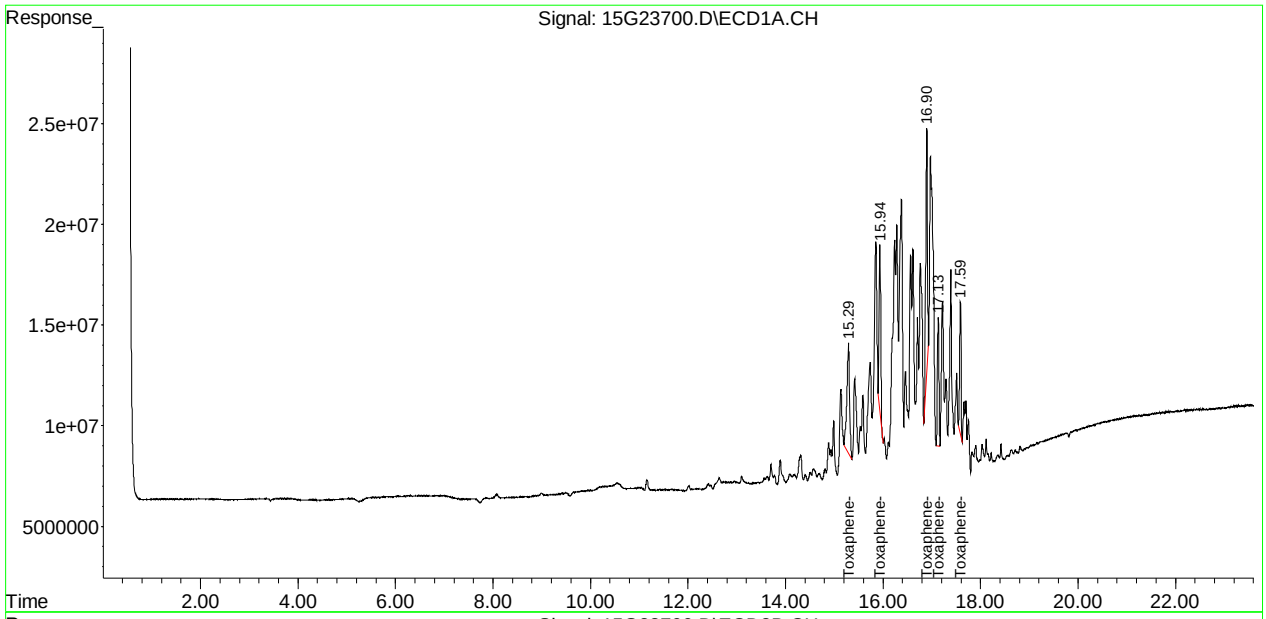
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

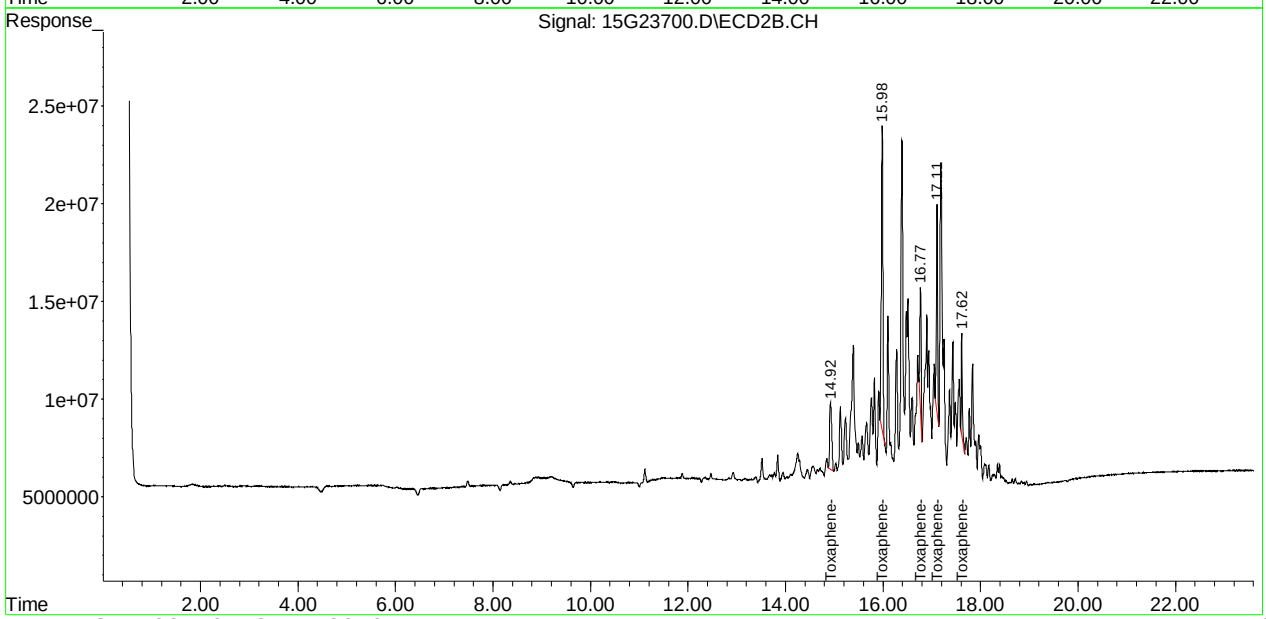
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23700.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 18:27 (#1); 27 Sep 2010 18:55 (#2)
Operator : ECL
Sample : WG343903-05 TOX ICAL 100 PPB
Misc : 1,1 STD40827
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Sep 28 10:40:57 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Tue Sep 28 10:40:55 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





TOX.M Tue Sep 28 10:42:44 2010 Page: 2

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23701.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 18:55 (#1); 27 Sep 2010 19:24 (#2)
Operator : ECL
Sample : WG343903-06 TOX ALT 500 PPB
Misc : 1,1 STD40828
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Sep 28 10:41:47 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Tue Sep 28 10:40:55 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
Target Compounds						
1) L1 Toxaphene-1	15.26f	14.93	640.5E6	459.1E6	281.914	480.783 #
2) L1 Toxaphene-2	15.93	15.98	969.4E6	1540.4E6	553.128	482.611
3) L1 Toxaphene-3	16.90	16.77	1438.4E6	204.0E6	489.992	211.953 #
4) L1 Toxaphene-4	17.13	17.11	593.0E6	1054.2E6	446.524	483.581
5) L1 Toxaphene-5	17.59	17.62	651.6E6	510.4E6	479.246	573.364
Sum Toxaphene-1			4292.9E6	3768.0E6	2250.804	2232.292
Average Toxaphene-1					450.161	446.458

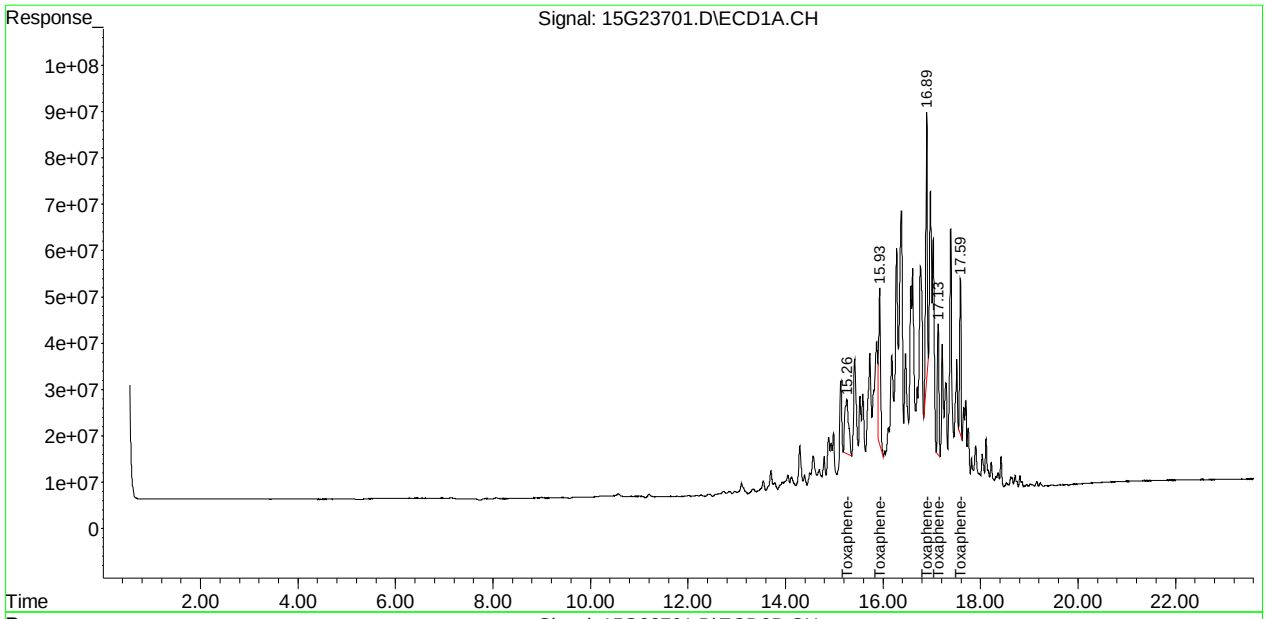
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

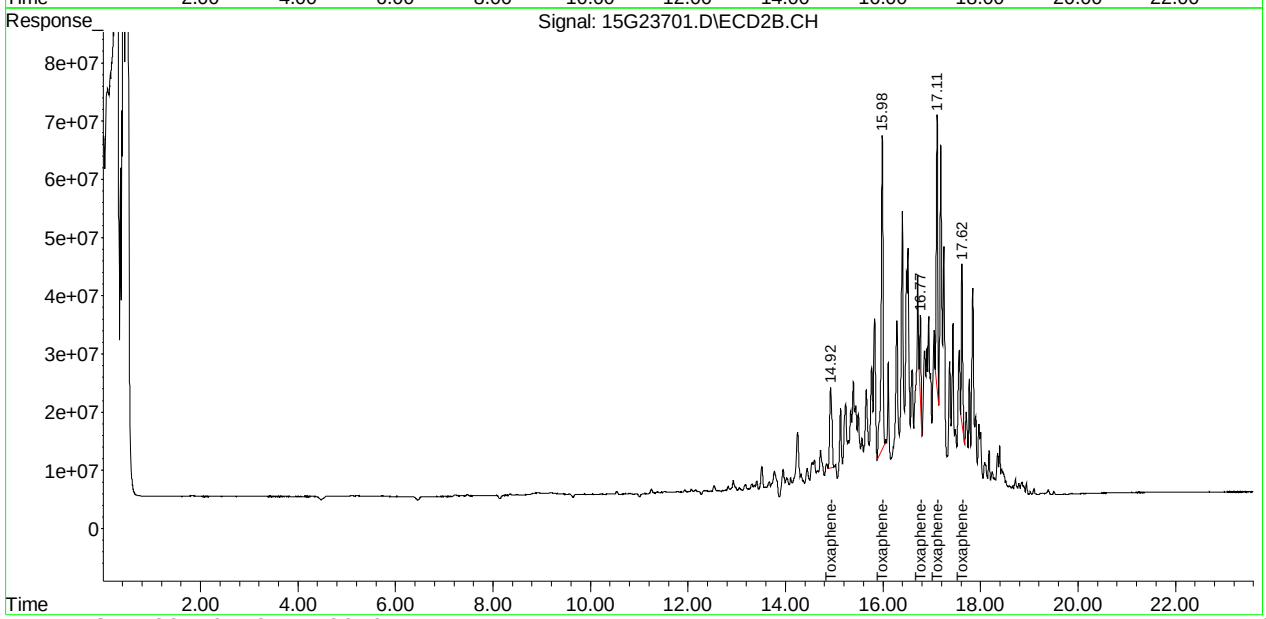
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23701.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 18:55 (#1); 27 Sep 2010 19:24 (#2)
Operator : ECL
Sample : WG343903-06 TOX ALT 500 PPB
Misc : 1,1 STD40828
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Sep 28 10:41:47 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Tue Sep 28 10:40:55 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\120110\
Data File : 15G24267.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2010 13:58 (#1); 01 Dec 2010 14:26 (#2)
Operator : ECL
Sample : WG350177-02 PEST CCV 20 PPB
Misc : 1,1 STD40207
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 01 15:25:43 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Mon Nov 01 10:45:39 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.27	9.17	2414.2E6	1832.8E6	21.227	19.203
	Spiked Amount	20.000	Range 30 - 132		Recovery =	106.14%	96.02%
22) S	Decachlorobiphen	18.62	18.89	1646.6E6	1174.5E6	20.548	19.500
	Spiked Amount	20.000	Range 36 - 144		Recovery =	102.74%	97.50%
	Target Compounds						
2)	alpha-BHC	10.56	10.53	3685.7E6	2804.6E6	22.082	20.237
3)	gamma-BHC	11.23	11.27	3416.6E6	2643.9E6	21.915	18.722
4)	beta-BHC	11.42	11.45	1481.2E6	1158.3E6	21.208	17.986
5)	Heptachlor	12.18	12.12	3241.5E6	2694.9E6	21.392	19.758
6)	delta-BHC	11.77	12.02	3452.1E6	2882.2E6	22.559	20.623
7)	Aldrin	12.74	12.73	3151.3E6	2478.6E6	20.295	20.205
8)	Heptachlor Epoxi	13.85	13.78	3043.6E6	2169.6E6	21.441	20.596
9)	gamma-Chlordane	14.08	14.12	3127.3E6	2355.5E6	21.097	20.710
10)	alpha-Chlordane	14.31	14.38	2942.6E6	2240.7E6	21.654	20.392
11)	Endosulfan I	14.54	14.47	2672.1E6	1950.5E6	21.487	20.942
12)	4,4'-DDE	14.47	14.68	2787.4E6	2155.2E6	21.825	20.587
13)	Dieldrin	14.96	14.95	2729.1E6	2270.6E6	21.982	20.810
14)	Endrin	15.35	15.47	2497.0E6	1798.0E6	20.572	19.490
15)	4,4'-DDD	15.49	15.68	2331.1E6	1839.9E6	22.448	21.230
16)	Endosulfan II	15.73	15.84	2417.9E6	1927.0E6	20.352	20.835
17)	4,4'-DDT	15.95	16.19	2330.0E6	1814.5E6	19.705	20.162
18)	Endrin Aldehyde	16.39	16.37	1910.9E6	1408.8E6	20.964	19.779
19)	Endosulfan Sulfa	17.02	16.77	2076.7E6	1692.1E6	21.720	23.475
20)	Methoxychlor	16.69	17.16	1116.5E6	826.3E6	19.781	18.544
21)	Endrin Ketone	17.40	17.48	2413.4E6	1858.8E6	22.150	23.043

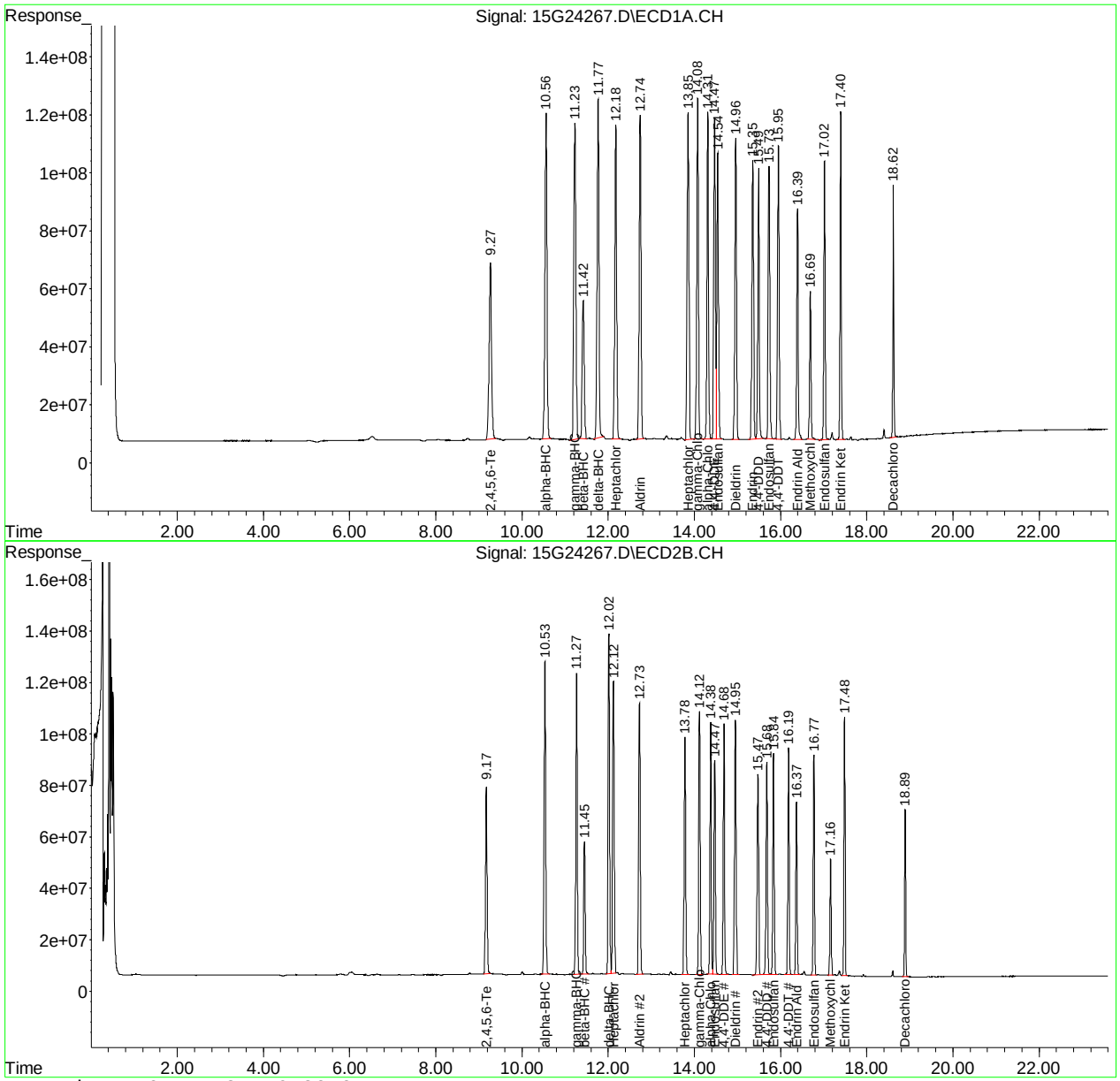
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\120110\
Data File : 15G24267.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2010 13:58 (#1); 01 Dec 2010 14:26 (#2)
Operator : ECL
Sample : WG350177-02 PEST CCV 20 PPB
Misc : 1,1 STD40207
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 01 15:25:43 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Mon Nov 01 10:45:39 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\120110\
Data File : 15G24268.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2010 15:24 (#1); 01 Dec 2010 15:52 (#2)
Operator : ECL
Sample : WG350178-01 TOX CCV 500 PPB
Misc : 1,1 STD40827
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Dec 02 08:42:22 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Mon Nov 01 10:42:47 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	Target Compounds						
1)	L1 Toxaphene-1	15.28	14.91	1241.7E6	521.9E6	546.511	546.631
2)	L1 Toxaphene-2	15.93	15.97	916.0E6	1650.8E6	522.664	517.197
3)	L1 Toxaphene-3	16.89	16.76	1513.9E6	511.9E6	515.700	531.970
4)	L1 Toxaphene-4	17.12	17.10	708.2E6	1103.0E6	533.259	505.961
5)	L1 Toxaphene-5	17.58	17.61	723.2E6	470.0E6	531.941	528.015
	Sum Toxaphene-1			5103.0E6	4257.6E6	2650.073	2629.775
Average	Toxaphene-1					530.015	525.955

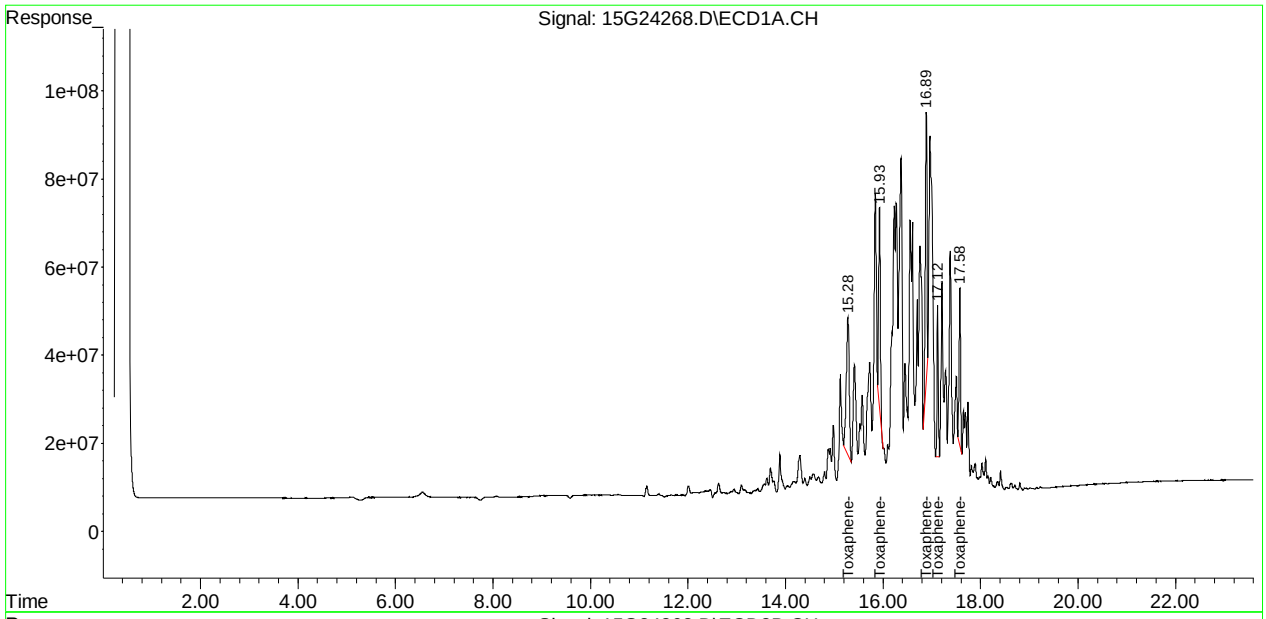
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

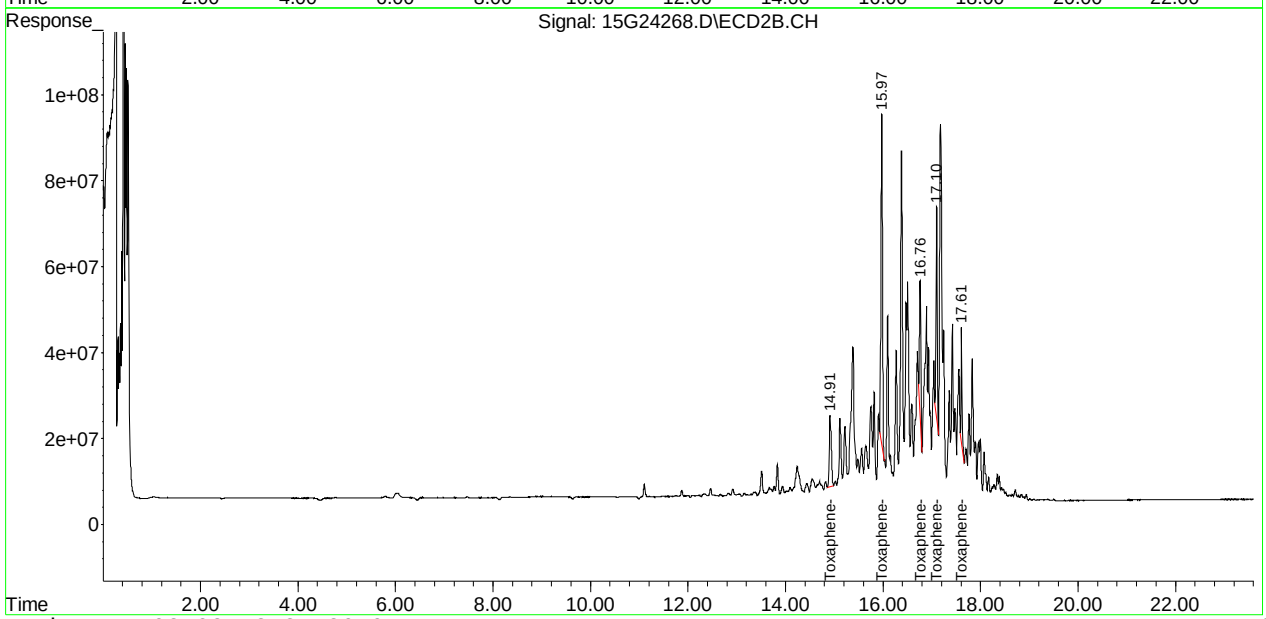
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\120110\
Data File : 15G24268.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2010 15:24 (#1); 01 Dec 2010 15:52 (#2)
Operator : ECL
Sample : WG350178-01 TOX CCV 500 PPB
Misc : 1,1 STD40827
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Dec 02 08:42:22 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Mon Nov 01 10:42:47 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





TOX.M Thu Dec 02 08:42:35 2010 Page: 2

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\120110\
Data File : 15G24279.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2010 20:35 (#1); 01 Dec 2010 21:03 (#2)
Operator : ECL
Sample : WG350177-03 PEST CCV 10 PPB
Misc : 1,1 STD40207
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 02 08:48:09 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 02 08:47:10 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

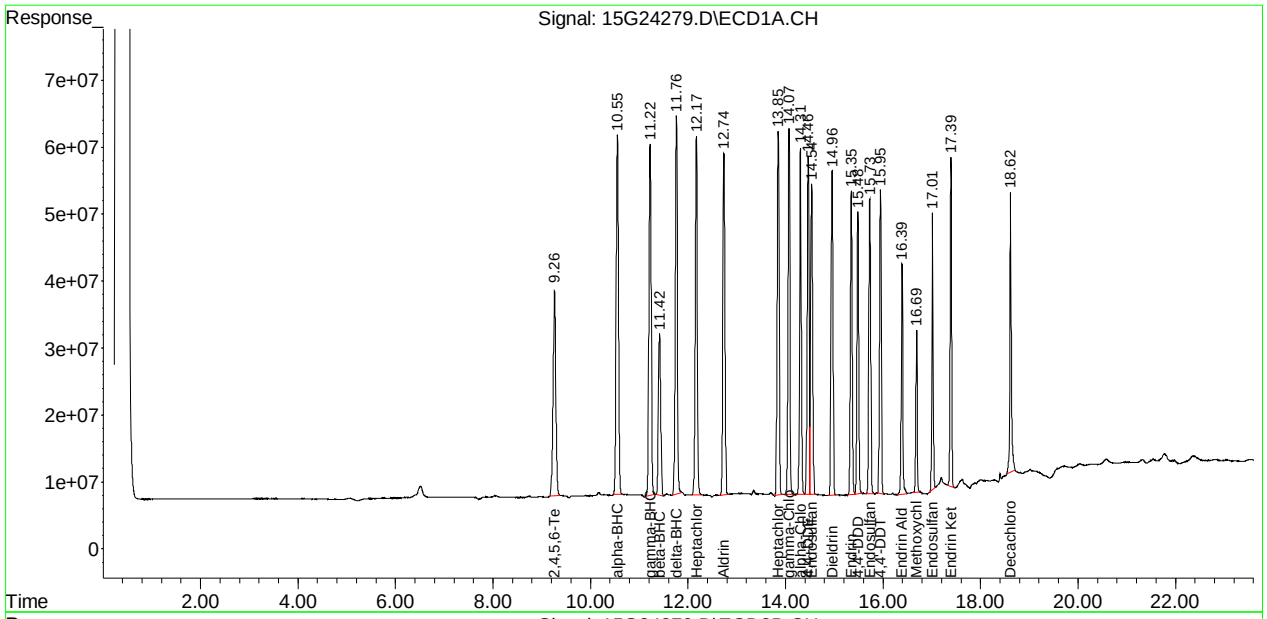
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.26	9.17	1207.8E6	914.3E6	10.620	9.580
	Spiked Amount	20.000	Range 30 - 132		Recovery =	53.10%	47.90%
22) S	Decachlorobiphen	18.62	18.89	936.6E6	522.4E6	11.688	8.882
	Spiked Amount	20.000	Range 36 - 144		Recovery =	58.44%	44.41%
	Target Compounds						
2)	alpha-BHC	10.55	10.53	1732.1E6	1339.1E6	10.378	9.663
3)	gamma-BHC	11.22	11.27	1628.4E6	1273.5E6	10.445	9.018
4)	beta-BHC	11.42	11.45	745.8E6	572.2E6	10.679	8.885
5)	Heptachlor	12.17	12.12	1596.3E6	1309.1E6	10.535	9.598
6)	delta-BHC	11.76	12.01	1638.3E6	1379.1E6	10.706	9.868
7)	Aldrin	12.74	12.73	1419.9E6	1191.6E6	9.144	9.714
8)	Heptachlor Epoxi	13.85	13.78	1443.0E6	1058.2E6	10.165	10.046
9)	gamma-Chlordane	14.07	14.12	1437.0E6	1113.5E6	9.694	9.791
10)	alpha-Chlordane	14.31	14.38	1353.3E6	1061.5E6	9.959	9.660
11)	Endosulfan I	14.54	14.47	1235.5E6	950.2E6	9.935	10.202
12)	4,4'-DDE	14.46	14.68	1250.3E6	990.9E6	9.790	9.465
13)	Dieldrin	14.96	14.95	1246.0E6	1051.4E6	10.037	9.637
14)	Endrin	15.35	15.47	1169.1E6	859.8E6	9.632	9.320
15)	4,4'-DDD	15.48	15.68	1027.3E6	830.7E6	9.893	9.585
16)	Endosulfan II	15.73	15.84	1112.1E6	886.6E6	9.361	9.586
17)	4,4'-DDT	15.95	16.19	1034.4E6	769.9E6	8.748	8.555
18)	Endrin Aldehyde	16.39	16.37	807.5E6	623.5E6	8.858	8.754
19)	Endosulfan Sulfa	17.02	16.77	880.2E6	754.5E6	9.206	10.467
20)	Methoxychlor	16.69	17.16	509.1E6	363.2E6	9.019	8.152
21)	Endrin Ketone	17.39	17.48	1037.2E6	799.7E6	9.519	9.913

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDChem\1\DATA\120110\
Data File : 15G24279.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2010 20:35 (#1); 01 Dec 2010 21:03 (#2)
Operator : ECL
Sample : WG350177-03 PEST CCV 10 PPB
Misc : 1,1 STD40207
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 02 08:48:09 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 02 08:47:10 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\120110\
Data File : 15G24280.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2010 21:03 (#1); 01 Dec 2010 21:32 (#2)
Operator : ECL
Sample : WG350178-02 TOX CCV 200 PPB
Misc : 1,1 STD40827
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Dec 02 08:43:07 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Mon Nov 01 10:42:47 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	Target Compounds						
1)	L1 Toxaphene-1	15.27	14.91	453.3E6	204.2E6	199.504	213.850
2)	L1 Toxaphene-2	15.92	15.97	347.1E6	601.6E6	198.056	188.477
3)	L1 Toxaphene-3	16.88	16.76	579.6E6	182.6E6	197.441	189.757
4)	L1 Toxaphene-4	17.12	17.10	262.4E6	410.3E6	197.594	188.213
5)	L1 Toxaphene-5	17.57	17.61	243.4E6	163.7E6	179.006	183.890
	Sum Toxaphene-1			1885.8E6	1562.4E6	971.601	964.186
Average	Toxaphene-1					194.320	192.837

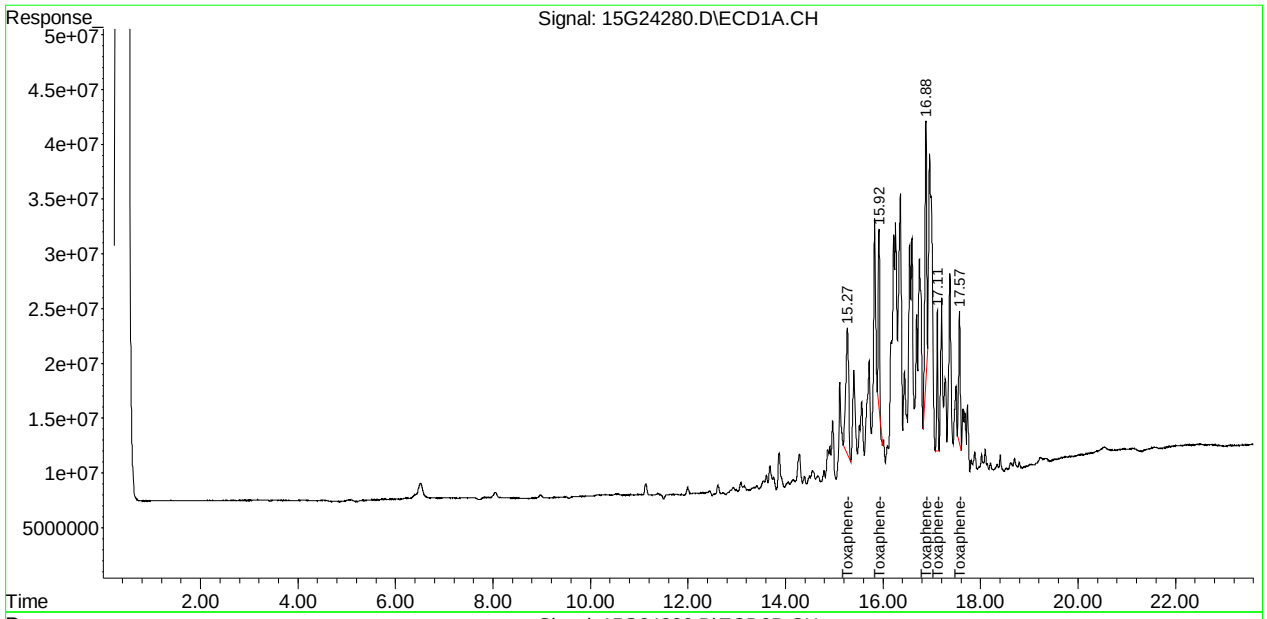
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

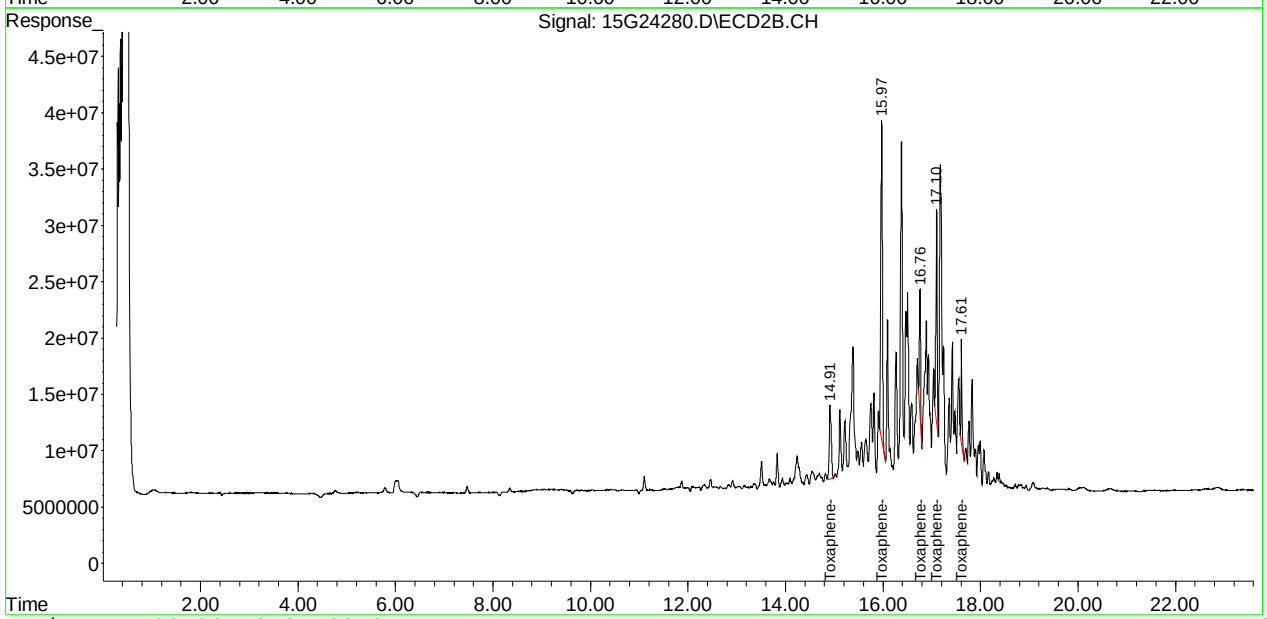
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\120110\
Data File : 15G24280.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2010 21:03 (#1); 01 Dec 2010 21:32 (#2)
Operator : ECL
Sample : WG350178-02 TOX CCV 200 PPB
Misc : 1,1 STD40827
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Dec 02 08:43:07 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Mon Nov 01 10:42:47 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





TOX.M Thu Dec 02 08:43:21 2010 Page: 2

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\120110\
Data File : 15G24286.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2010 23:53 (#1); 02 Dec 2010 00:21 (#2)
Operator : ECL
Sample : WG350177-05 PEST CCV 20 PPB
Misc : 1,1 STD40207
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 02 08:45:37 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Mon Nov 01 10:45:39 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.26	9.17	2380.5E6	1753.8E6	20.932	18.375
	Spiked Amount	20.000	Range 30 - 132		Recovery =	104.66%	91.88%
22) S	Decachlorobiphen	18.62	18.89	1432.9E6	981.8E6	17.882	17.658
	Spiked Amount	20.000	Range 36 - 144		Recovery =	89.41%	88.29%
	Target Compounds						
2)	alpha-BHC	10.55	10.53	3604.7E6	2623.5E6	21.597	18.930
3)	gamma-BHC	11.22	11.27	3378.2E6	2512.7E6	21.669	17.793
4)	beta-BHC	11.42	11.45	1488.3E6	1099.0E6	21.311	17.065
5)	Heptachlor	12.17	12.12	3196.7E6	2552.5E6	21.096	18.713
6)	delta-BHC	11.76	12.01	3413.6E6	2753.5E6	22.307	19.701
7)	Aldrin	12.74	12.73	2887.6E6	2341.7E6	18.596	19.090
8)	Heptachlor Epoxi	13.85	13.78	2951.6E6	1901.6E6	20.793	18.052
9)	gamma-Chlordane	14.07	14.12	3010.6E6	2180.1E6	20.310	19.168
10)	alpha-Chlordane	14.31	14.38	2734.1E6	2063.8E6	20.120	18.782
11)	Endosulfan I	14.54	14.47	2509.4E6	1739.1E6	20.178	18.672
12)	4,4'-DDE	14.46	14.68	2701.8E6	1974.8E6	21.155	18.864
13)	Dieldrin	14.96	14.95	2510.3E6	2082.7E6	20.220	19.089
14)	Endrin	15.35	15.47	2472.7E6	1635.0E6	20.372	17.723
15)	4,4'-DDD	15.48	15.68	2202.0E6	1664.8E6	21.205	19.208
16)	Endosulfan II	15.73	15.84	2299.7E6	1737.1E6	19.357	18.781
17)	4,4'-DDT	15.94	16.18	2271.1E6	1571.3E6	19.207	17.461
18)	Endrin Aldehyde	16.39	16.37	1742.1E6	1183.7E6	19.112	16.619
19)	Endosulfan Sulfa	17.02	16.77	1906.3E6	1492.1E6	19.938	20.701
20)	Methoxychlor	16.69	17.16	1060.4E6	709.0E6	18.788	15.912
21)	Endrin Ketone	17.39	17.48	2153.4E6	1591.1E6	19.763	19.724

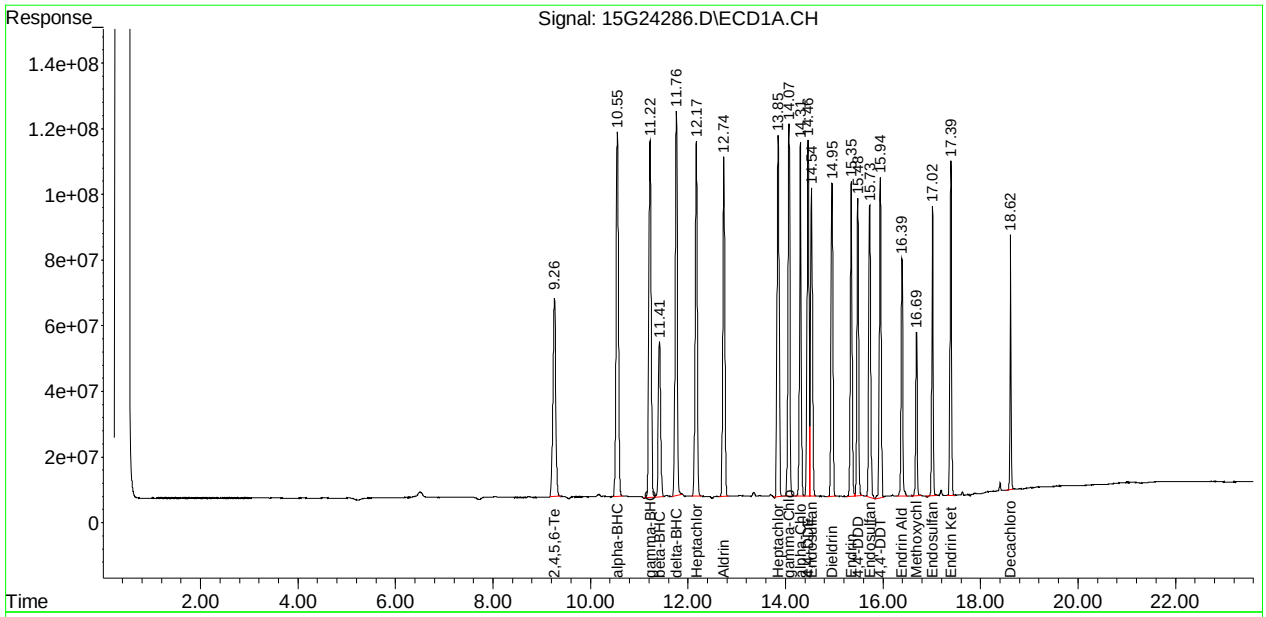
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\120110\
Data File : 15G24286.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2010 23:53 (#1); 02 Dec 2010 00:21 (#2)
Operator : ECL
Sample : WG350177-05 PEST CCV 20 PPB
Misc : 1,1 STD40207
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 02 08:45:37 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Mon Nov 01 10:45:39 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\120110\
Data File : 15G24287.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2010 00:21 (#1); 02 Dec 2010 00:50 (#2)
Operator : ECL
Sample : WG350178-03 TOX CCV 500 PPB
Misc : 1,1 STD40827
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Dec 02 08:42:48 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Mon Nov 01 10:42:47 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	Target Compounds						
1)	L1 Toxaphene-1	15.27	14.91	1199.5E6	502.1E6	527.937	525.905
2)	L1 Toxaphene-2	15.92	15.97	884.9E6	1516.8E6	504.892	475.214
3)	L1 Toxaphene-3	16.88	16.76	1495.2E6	473.2E6	509.346	491.732
4)	L1 Toxaphene-4	17.11	17.10	689.9E6	967.6E6	519.484	443.852
5)	L1 Toxaphene-5	17.57	17.61	650.3E6	405.0E6	478.284	454.902
	Sum Toxaphene-1			4919.8E6	3864.7E6	2539.944	2391.606
Average	Toxaphene-1					507.989	478.321

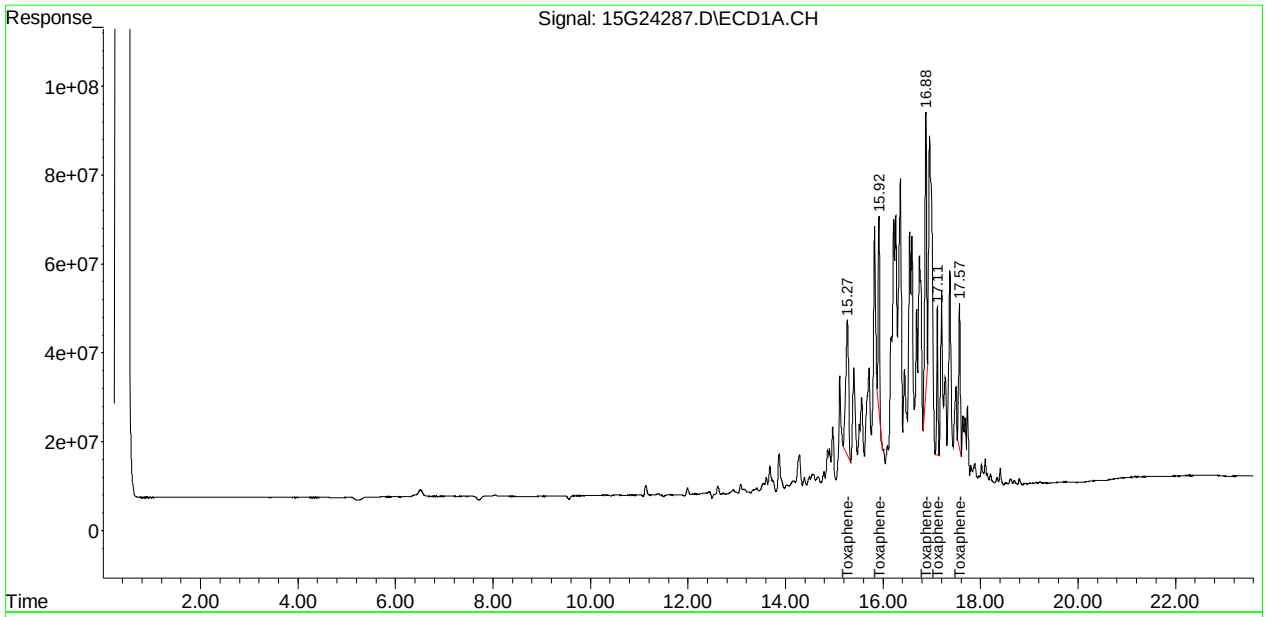
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

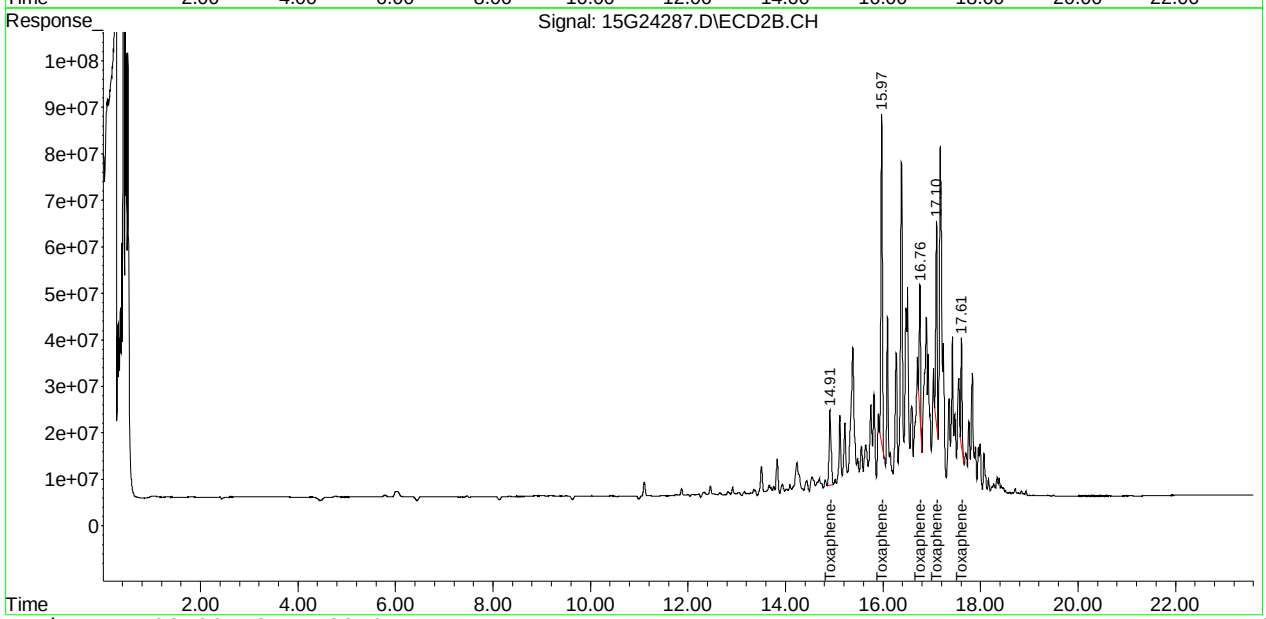
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\120110\
Data File : 15G24287.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2010 00:21 (#1); 02 Dec 2010 00:50 (#2)
Operator : ECL
Sample : WG350178-03 TOX CCV 500 PPB
Misc : 1,1 STD40827
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Dec 02 08:42:48 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Mon Nov 01 10:42:47 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\120110\
Data File : 15G24266.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2010 13:29 (#1); 01 Dec 2010 13:58 (#2)
Operator : ECL
Sample : WG350177-01 ENDRIN/DDT
Misc : 1,1 STD39983
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 01 15:22:29 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Mon Nov 01 10:45:39 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

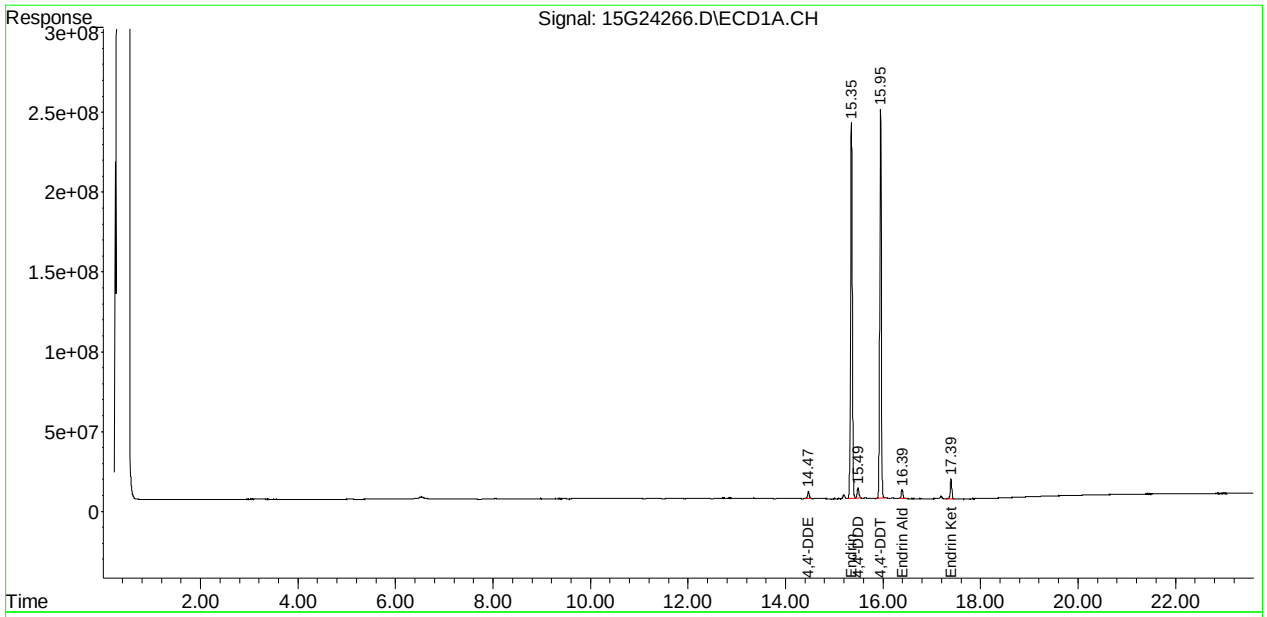
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount 20.000	Range 30 - 132		Recovery =		0.00%#	0.00%#
22) S	Decachlorobiphen	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount 20.000	Range 36 - 144		Recovery =		0.00%#	0.00%#
	Target Compounds						
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.
5)	Heptachlor	0.00	0.00	0	0	N.D.	N.D.
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.
9)	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11)	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
12)	4,4'-DDE	14.47	14.68	109.3E6	84770634	0.856	0.810
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
14)	Endrin	15.35	15.48	6250.4E6	4203.2E6	51.495	45.562
15)	4,4'-DDD	15.49	15.68	162.0E6	105.9E6	1.560	1.222
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.
17)	4,4'-DDT	15.95	16.19	5729.8E6	4195.4E6	48.457	46.619
18)	Endrin Aldehyde	16.39	16.37	130.5E6	127.8E6	1.431	1.794 #
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.
21)	Endrin Ketone	17.39	17.48	265.6E6	243.5E6	2.438	3.018

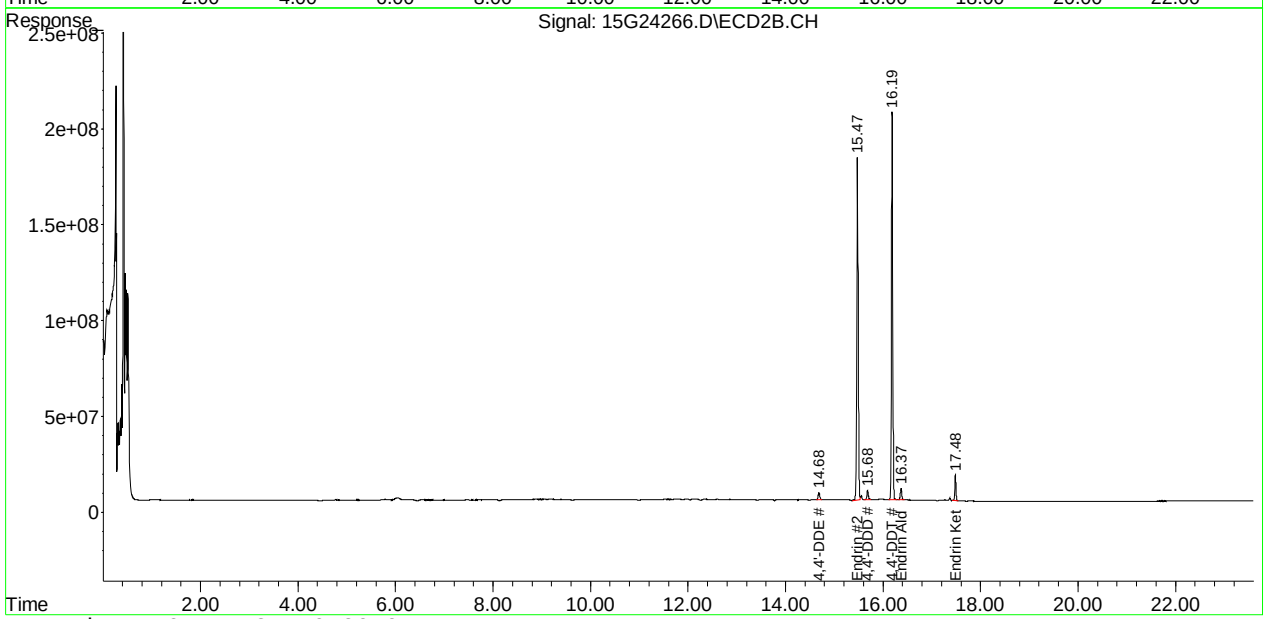
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDChem\1\DATA\120110\
Data File : 15G24266.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2010 13:29 (#1); 01 Dec 2010 13:58 (#2)
Operator : ECL
Sample : WG350177-01 ENDRIN/DDT
Misc : 1,1 STD39983
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 01 15:22:29 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Mon Nov 01 10:45:39 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\120110\
Data File : 15G24285.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2010 23:25 (#1); 01 Dec 2010 23:53 (#2)
Operator : ECL
Sample : WG350177-04 ENDRIN/DDT
Misc : 1,1 STD39983
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 02 08:43:34 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Mon Nov 01 10:45:39 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount	20.000	Range 30 - 132	Recovery	=	0.00%#	0.00%#
22) S	Decachlorobiphen	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount	20.000	Range 36 - 144	Recovery	=	0.00%#	0.00%#
	Target Compounds						
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.
5)	Heptachlor	0.00	0.00	0	0	N.D.	N.D.
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.
9)	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11)	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
12)	4,4'-DDE	14.46	14.68	90794645	70129075	0.711	0.670
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
14)	Endrin	15.35	15.47	5836.2E6	4095.9E6	48.082	44.399
15)	4,4'-DDD	15.48	15.68	108.5E6	74898549	1.044	0.864
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.
17)	4,4'-DDT	15.94	16.18	5134.4E6	3728.8E6	43.422	41.434
18)	Endrin Aldehyde	0.00	16.37	0	46612275	N.D.	0.654 #
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.
21)	Endrin Ketone	17.39	17.48	142.0E6	133.7E6	1.303	1.658 #

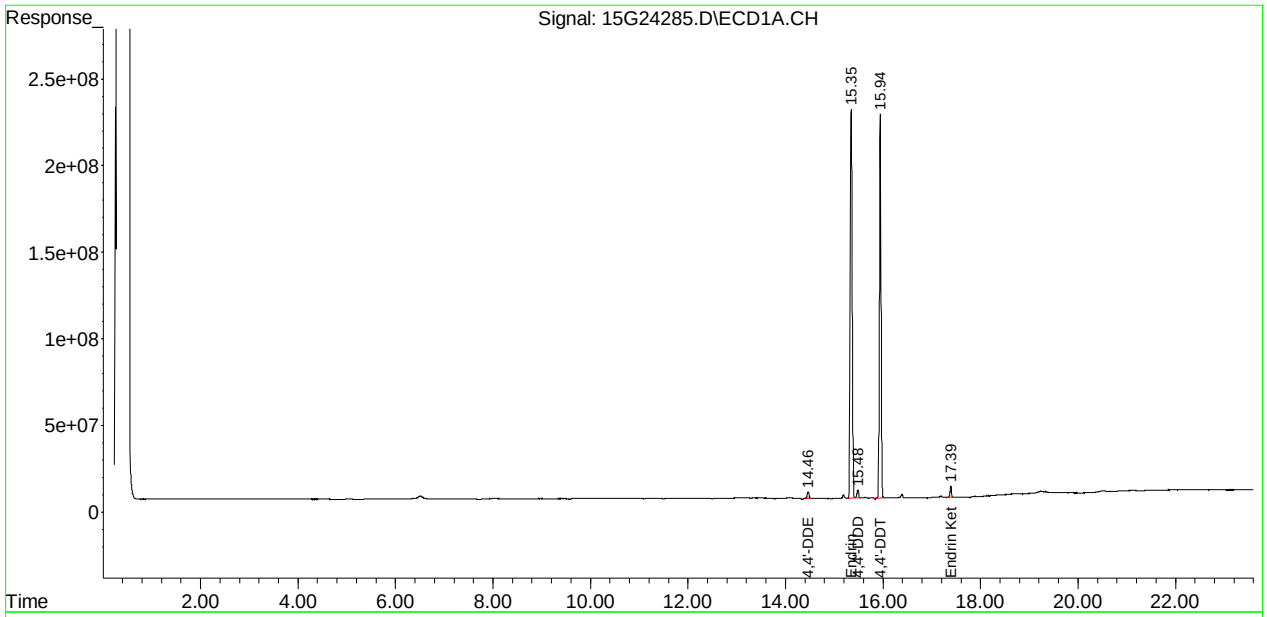
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

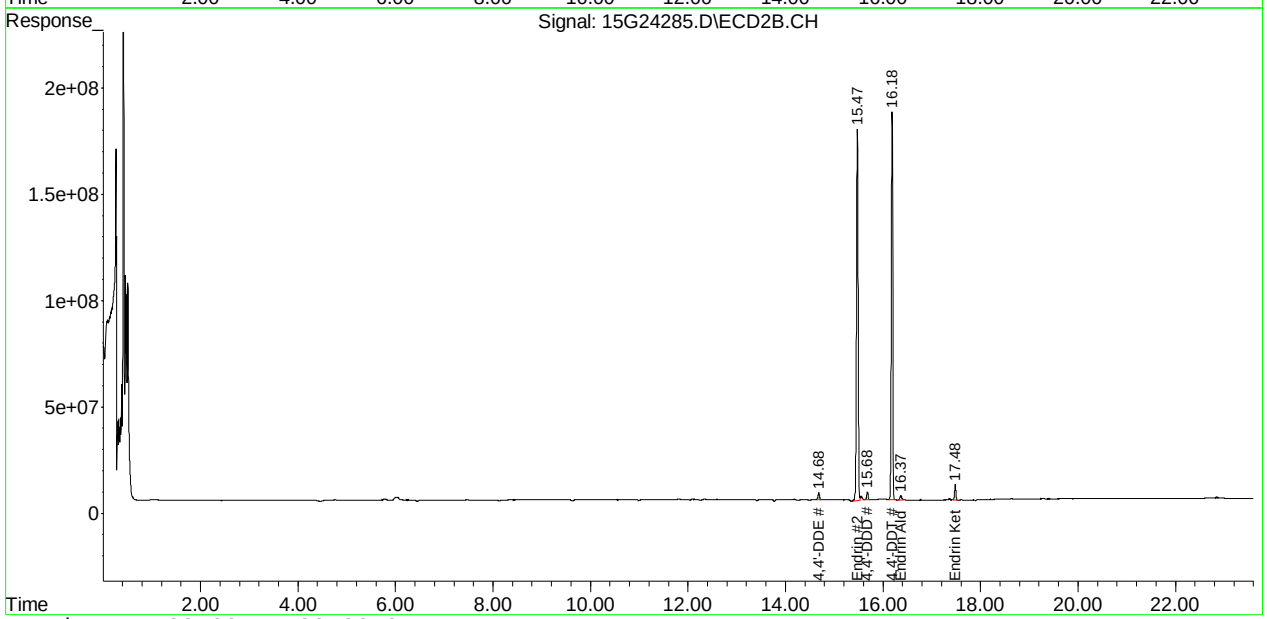
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\120110\
Data File : 15G24285.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2010 23:25 (#1); 01 Dec 2010 23:53 (#2)
Operator : ECL
Sample : WG350177-04 ENDRIN/DDT
Misc : 1,1 STD39983
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 02 08:43:34 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Mon Nov 01 10:45:39 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





RETENTION TIME WINDOWS

Lab Name: Microbac Laboratories

Instrument ID: HP 15

GC Column: RTx-CLP (Front)

	STANDARD #1	STANDARD #2	STANDARD #3
Date Run	8/27/09	8/28/09	9/1/09
File #	15G18733	15G18777	15G18817

COMPOUND	STD #1 RT	STD #2 RT	STD #3 RT	RT WIN
alpha-BHC	10.90	10.89	10.89	0.017
gamma-BHC	11.58	11.57	11.56	0.030
beta-BHC	11.77	11.76	11.75	0.030
Heptachlor	12.53	12.51	12.51	0.035
delta-BHC	12.12	12.11	12.10	0.030
Aldrin	13.09	13.08	13.08	0.017
Heptachlor Epoxide	14.22	14.21	14.20	0.030
gamma-Chlordane	14.44	14.43	14.42	0.030
alpha-Chlordane	14.67	14.66	14.66	0.017
Endosulfan I	14.91	14.90	14.90	0.017
4,4'-DDE	14.82	14.81	14.80	0.030
Dieldrin	15.33	15.32	15.31	0.030
Endrin	15.73	15.72	15.71	0.030
4,4'-DDD	15.84	15.83	15.83	0.017
Endosulfan II	16.09	16.09	16.08	0.017
4,4'-DDT	16.28	16.27	16.27	0.017
Endrin Aldehyde	16.73	16.73	16.72	0.017
Endosulfan Sulfate	17.34	17.34	17.33	0.017
Methoxychlor	16.99	16.98	16.97	0.030
Endrin Ketone	17.71	17.70	17.70	0.017
2,4,5,6-Tetrachloro-M-Xylene	9.60	9.59	9.59	0.017
Decachlorobiphenyl	18.89	18.89	18.88	0.017

RETENTION TIME WINDOWS

Lab Name: Microbac Laboratories

Instrument ID: HP 15
GC Column: RTx-CLP II (Rear)

	STANDARD #1	STANDARD #2	STANDARD #3
Date Run	8/27/09	8/28/09	9/1/09
File #	15G18733	15G18777	15G18817

COMPOUND	STD #1 RT	STD #2 RT	STD #3 RT	RT WIN
alpha-BHC	10.70	10.70	10.70	0.000
gamma-BHC	11.44	11.44	11.43	0.017
beta-BHC	11.61	11.61	11.61	0.000
Heptachlor	12.30	12.30	12.29	0.017
delta-BHC	12.18	12.19	12.18	0.017
Aldrin	12.91	12.91	12.90	0.017
Heptachlor Epoxide	13.96	13.97	13.96	0.017
gamma-Chlordane	14.30	14.30	14.30	0.000
alpha-Chlordane	14.56	14.56	14.56	0.000
Endosulfan I	14.66	14.66	14.66	0.000
4,4'-DDE	14.87	14.87	14.86	0.017
Dieldrin	15.14	15.14	15.14	0.000
Endrin	15.67	15.67	15.67	0.000
4,4'-DDD	15.86	15.86	15.86	0.000
Endosulfan II	16.02	16.02	16.01	0.017
4,4'-DDT	16.35	16.35	16.35	0.000
Endrin Aldehyde	16.54	16.54	16.53	0.017
Endosulfan Sulfate	16.93	16.93	16.93	0.000
Methoxychlor	17.30	17.30	17.30	0.000
Endrin Ketone	17.63	17.63	17.63	0.000
2,4,5,6-Tetrachloro-M-Xylene	9.33	9.33	9.33	0.000
Decachlorobiphenyl	19.03	19.03	19.03	0.000

2.1.1.5 Raw QC Data

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\120110\
Data File : 15G24270.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2010 16:21 (#1); 01 Dec 2010 16:49 (#2)
Operator : ECL
Sample : WG349954-02 BLANK
Misc : 7,1 SOIL
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 02 08:49:44 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 02 08:47:10 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.26	9.17	1912.1E6	1124.2E6	16.813	11.778 #
	Spiked Amount	20.000	Range 29 - 133		Recovery =	84.06%	58.89%
22) S	Decachlorobiphen	18.62	18.89	1331.4E6	942.2E6	16.615	16.900
	Spiked Amount	20.000	Range 30 - 173		Recovery =	83.07%	84.50%
	Target Compounds						
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.
5)	Heptachlor	0.00	12.10f	0	72280634	N.D.	0.530 #
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.
9)	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11)	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
12)	4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
14)	Endrin	0.00	0.00	0	0	N.D.	N.D.
15)	4,4'-DDD	0.00	0.00	0	0	N.D.	N.D.
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.
17)	4,4'-DDT	0.00	0.00	0	0	N.D.	N.D.
18)	Endrin Aldehyde	0.00	0.00	0	0	N.D.	N.D.
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.
21)	Endrin Ketone	0.00	0.00	0	0	N.D.	N.D.

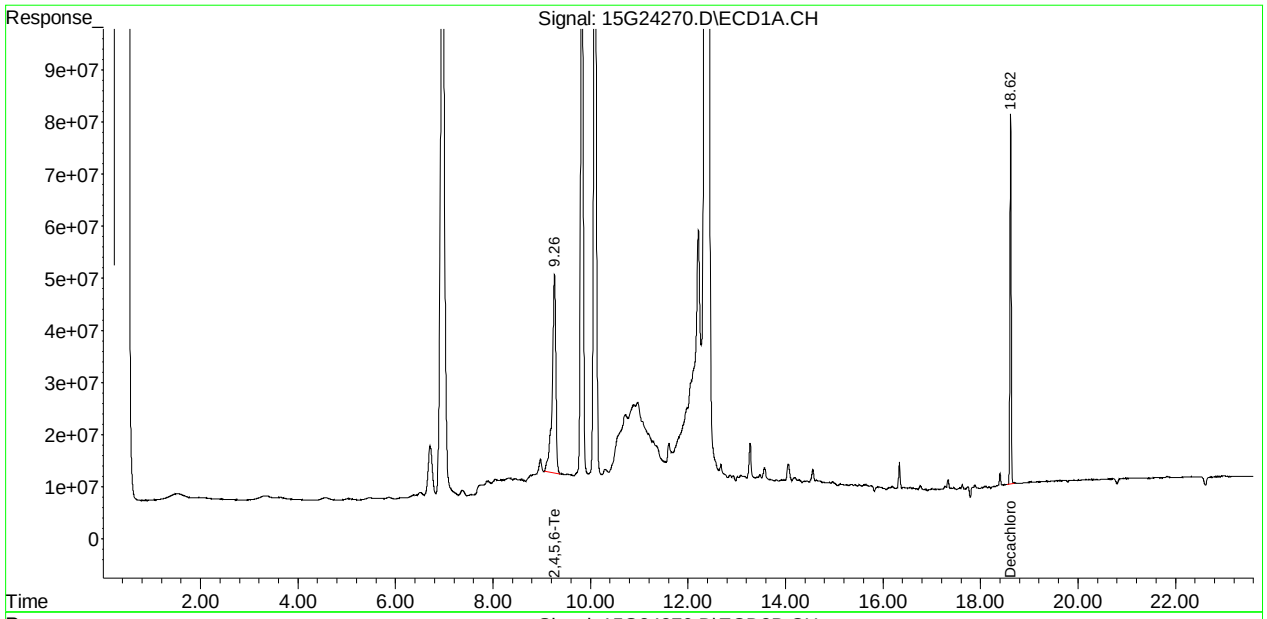
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

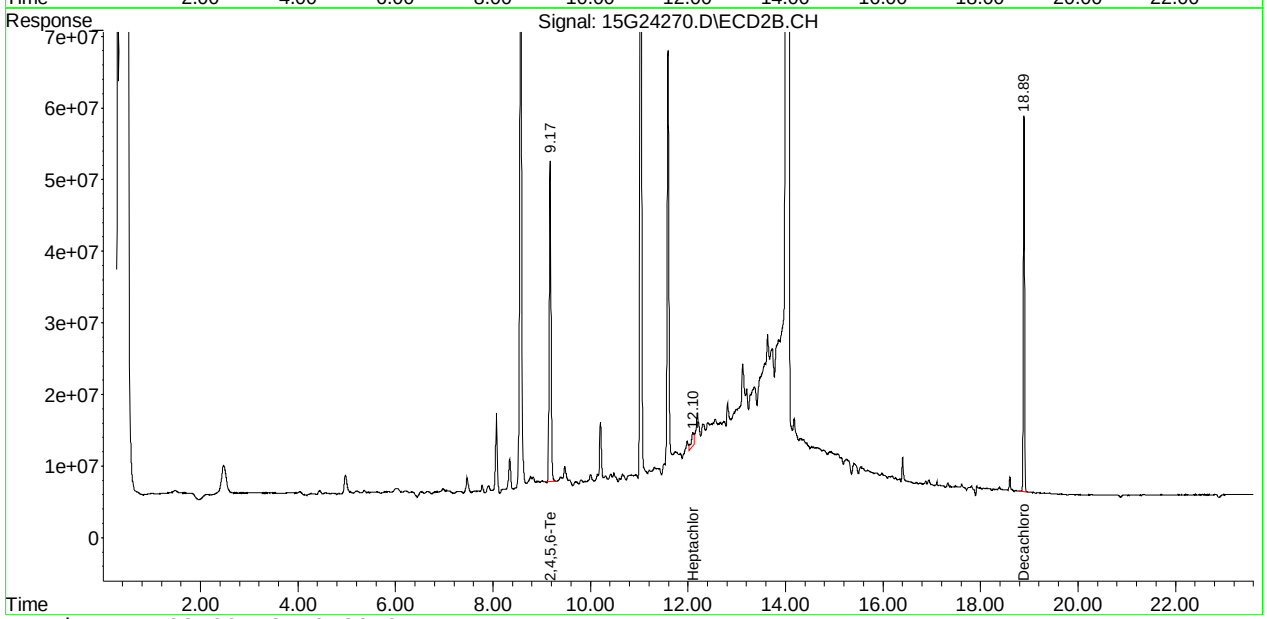
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\120110\
Data File : 15G24270.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2010 16:21 (#1); 01 Dec 2010 16:49 (#2)
Operator : ECL
Sample : WG349954-02 BLANK
Misc : 7,1 SOIL
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 02 08:49:44 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 02 08:47:10 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\120110\
Data File : 15G24271.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2010 16:49 (#1); 01 Dec 2010 17:17 (#2)
Operator : ECL
Sample : WG349954-03 LCS
Misc : 7,1 SOIL
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 02 08:49:54 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 02 08:47:10 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

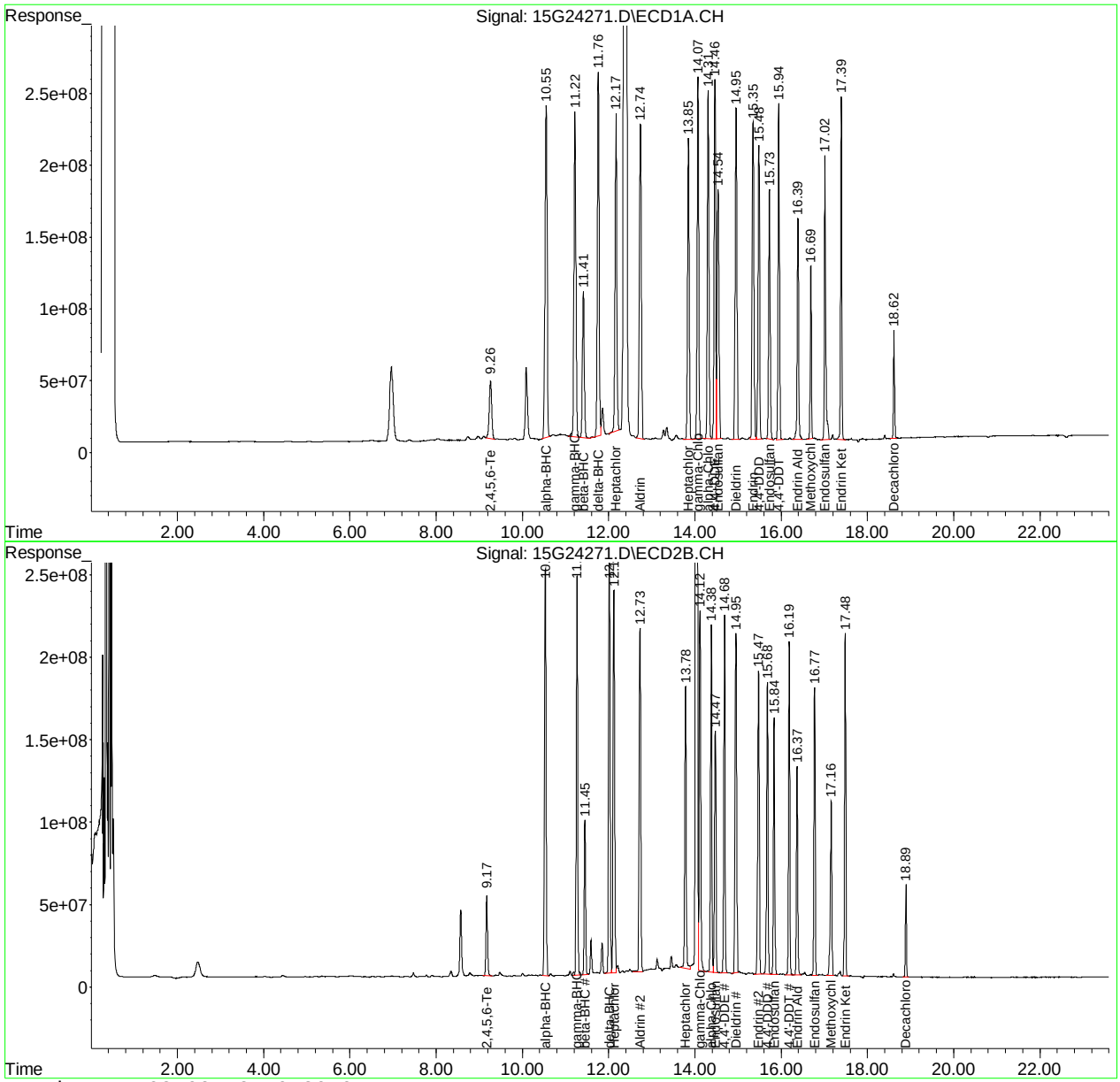
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.26	9.17	1600.9E6	1225.0E6	14.076	12.834
	Spiked Amount	20.000	Range 29 - 133		Recovery =	70.38%	64.17%
22) S	Decachlorobiphen	18.62	18.89	1395.3E6	993.6E6	17.412	17.882
	Spiked Amount	20.000	Range 30 - 173		Recovery =	87.06%	89.41%
	Target Compounds						
2)	alpha-BHC	10.55	10.53	7489.2E6	5566.6E6	44.870	40.167
3)	gamma-BHC	11.22	11.27	7110.4E6	5431.3E6	45.609	38.459
4)	beta-BHC	11.41	11.45	3079.1E6	2130.0E6	44.088	33.074
5)	Heptachlor	12.17	12.12	6592.1E6	5527.4E6	43.503	40.524
6)	delta-BHC	11.76	12.02	7336.8E6	5945.1E6	47.945	42.538
7)	Aldrin	12.74	12.73	6224.5E6	4962.7E6	40.087	40.456
8)	Heptachlor Epoxi	13.85	13.78	5601.7E6	4177.5E6	39.462	39.657
9)	gamma-Chlordane	14.07	14.12	6601.2E6	5013.3E6	44.532	44.078
10)	alpha-Chlordane	14.31	14.38	6283.5E6	4807.5E6	46.239	43.752
11)	Endosulfan I	14.54	14.47	4679.1E6	3418.5E6	37.624	36.704
12)	4,4'-DDE	14.46	14.68	6296.0E6	4782.0E6	49.299	45.679
13)	Dieldrin	14.95	14.95	6060.4E6	4771.2E6	48.816	43.730
14)	Endrin	15.35	15.47	5800.5E6	4240.4E6	47.788	45.965
15)	4,4'-DDD	15.48	15.68	5003.1E6	3954.5E6	48.178	45.628
16)	Endosulfan II	15.73	15.84	4420.6E6	3499.7E6	37.209	37.838
17)	4,4'-DDT	15.95	16.19	5437.2E6	4195.5E6	45.983	46.620
18)	Endrin Aldehyde	16.39	16.37	3717.3E6	2682.6E6	40.782	37.663
19)	Endosulfan Sulfa	17.02	16.77	4760.3E6	3428.8E6	49.788	47.569
20)	Methoxychlor	16.69	17.16	2535.5E6	2254.6E6	44.921	50.601
21)	Endrin Ketone	17.39	17.48	5083.8E6	3828.3E6	46.658	47.459

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\120110\
Data File : 15G24271.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2010 16:49 (#1); 01 Dec 2010 17:17 (#2)
Operator : ECL
Sample : WG349954-03 LCS
Misc : 7,1 SOIL
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 02 08:49:54 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 02 08:47:10 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\120110\
Data File : 15G24272.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2010 17:17 (#1); 01 Dec 2010 17:45 (#2)
Operator : ECL
Sample : WG349954-04 TOX LCS
Misc : 7,1 SOIL
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Dec 02 11:37:02 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Mon Nov 01 10:42:47 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	Target Compounds						
1)	L1 Toxaphene-1	15.27	14.91	352.7E6	153.2E6	155.211	160.412
2)	L1 Toxaphene-2	15.92	15.97	286.5E6	492.3E6	163.453	154.253
3)	L1 Toxaphene-3	16.88	16.76	499.0E6	160.6E6	169.980	166.877
4)	L1 Toxaphene-4	17.12	17.10	218.4E6	349.5E6	164.472	160.316
5)	L1 Toxaphene-5	17.57	17.61	218.4E6	165.2E6	160.601	185.541
	Sum Toxaphene-1			1574.9E6	1320.7E6	813.717	827.398
Average	Toxaphene-1					162.743	165.480

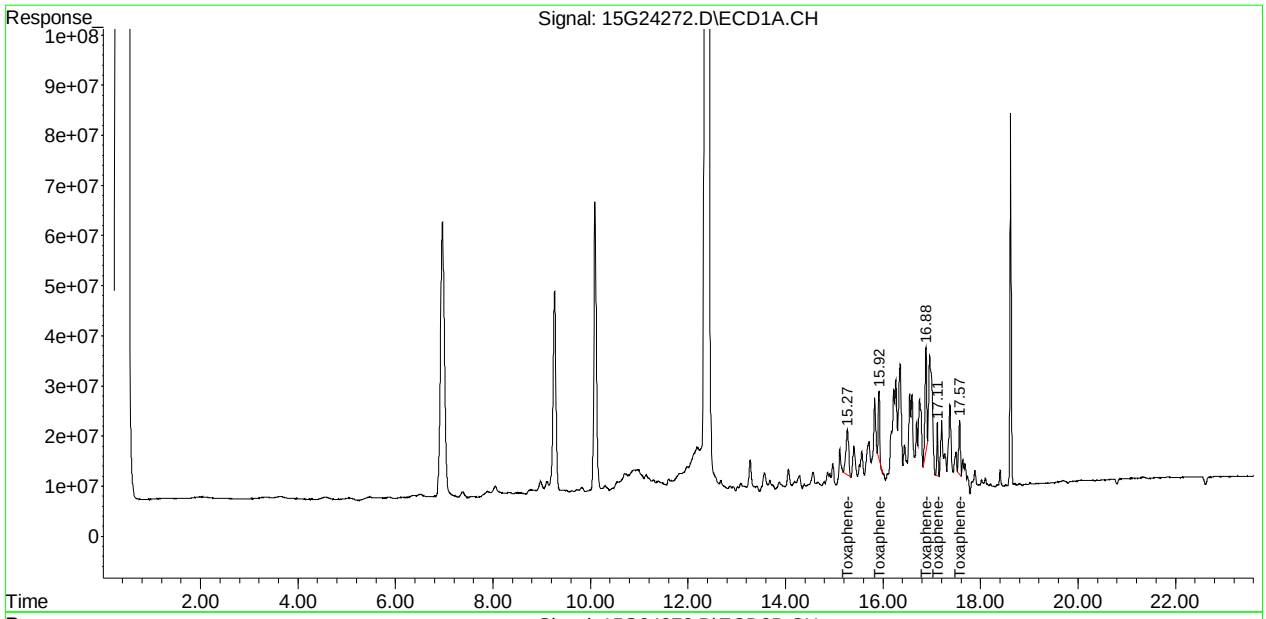
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

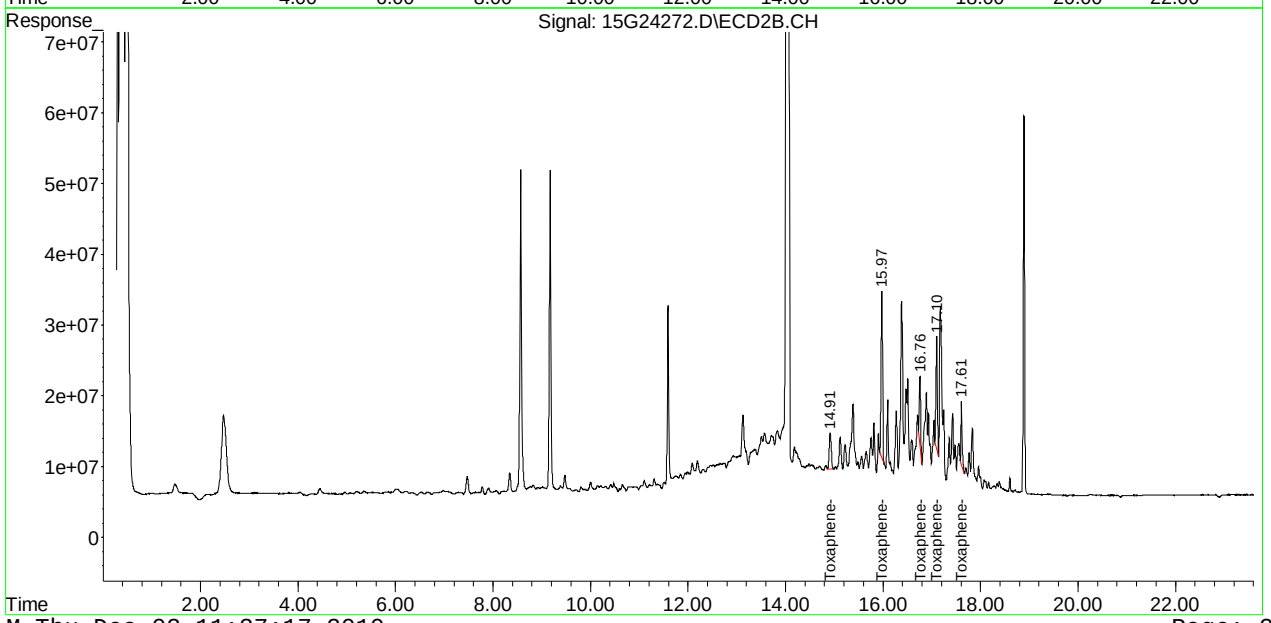
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\120110\
Data File : 15G24272.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2010 17:17 (#1); 01 Dec 2010 17:45 (#2)
Operator : ECL
Sample : WG349954-04 TOX LCS
Misc : 7,1 SOIL
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Dec 02 11:37:02 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Mon Nov 01 10:42:47 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





2.2 General Chemistry Data

2.2.1 Percent Solids Data

2.2.1.1 Raw Data

LABORATORY REPORT

L10110845

12/03/10 17:16

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: CT Laboratories
1230 Lange Court

Baraboo, WI 53913
Attention: Patrick Letterer

Project Number: 2694.006
Project: CT Labs
Site: CT LABS

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
DLASS-014-0001-SO	L10110845-01	D2216-90	1	24-NOV-10
DLASS-014-0003-SO	L10110845-02	D2216-90	1	24-NOV-10

Microbac Laboratories Inc.

Report Number: **L10110845**
Report Date : **December 3, 2010**

Sample Number:	**L10110845-01**	PrePrep Method:	**NONE**	Instrument:	**BAL001**
Client ID:	**DLASS-014-0001-SO**	Prep Method:	**D2216-90**	Prep Date:	**12/03/2010 10:07**
Matrix:	**Soil**	Analytical Method:	**D2216-90**	Cal Date:	
Workgroup Number:	**WG350309**	Analyst:	**JDH**	Run Date:	**12/03/2010 10:07**
Collect Date:	**11/09/2010 15:25**	Dilution:	**1**	File ID:	**B1.350309-0117**
Sample Tag:	**01**	Units:	**weight %**		

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Percent Solids	**10-02-6**	**77.5**		**1.00**	**1.00**

Report Number: **L10110845**
Report Date : **December 3, 2010**

Sample Number:	L10110845-02	PrePrep Method:	NONE	Instrument:	BAL001
Client ID:	DLASS-014-0003-SO	Prep Method:	D2216-90	Prep Date:	12/03/2010 10:07
Matrix:	Soil	Analytical Method:	D2216-90	Cal Date:	
Workgroup Number:	WG350309	Analyst:	JDH	Run Date:	12/03/2010 10:07
Collect Date:	11/09/2010 15:35	Dilution:	1	File ID:	B1.350309-0118
Sample Tag:	01	Units:	weight %		

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Percent Solids	10-02-6	68.6		1.00	1.00

Example Percent Solids Calculations

1.0 Calculating the percent solids of a sample.

$$\%Solids = \frac{WT3 - WT1}{WT2 - WT1} \times F$$

Where:	
WT1 = Weight, in grams, of the empty container	1.30 g
WT2 = Weight, in grams, of the container and wet sample	21.274 g
WT3 = Weight, in grams, of the container and dried sample	5.21 g
F = Factor to get units as percent weight	100
%Solids = Percent solids present in sample.	19.58%

2.0 Calculating the percent moisture of a sample.

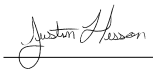
% Moisture = 100 - % Solids from 1.0 calculation

Microbac Laboratories Inc.

PERCENT SOLIDS

Workgroup (AAB#):WG350309 Analyst:JDH ADT(on):12/02/2010 15:59
Method:D2216-90 Instrument:BAL001 ADT(off):12/03/2010 10:07
SOP:K0003 Rev:10

SAMPLE NUMBER	EMPTY PAN WT 1	WET WT 2	DRY WT 3A	DRY WT 3B	DRY WT 3C	PERCENT SOLID	PERCENT MOISTURE
L10110817-02	1.35	16.78	14.27			83.73	
L10110817-03	1.37	11.21	9.69			84.55	
L10110817-04	1.36	25.04	23.37			92.95	
L10110817-05	1.35	18.15	15.81			86.07	
L10110817-06	1.31	24.38	22.08			90.03	
L10110844-01	1.32	38.02	32.77			85.69	
L10110844-02	1.33	48.24	39.02			80.35	
L10110844-03	1.35	26.41	22.28			83.52	
L10110844-04	1.34	28.3	24.72			86.72	
L10110844-05	1.35	36.67	32.33			87.71	
L10110844-06	1.35	33.01	29.85			90.02	
L10110844-07	1.37	23.43	18.98			79.83	
L10110844-08	1.36	38.18	34.03			88.73	
L10110844-09	1.31	30.55	26.12			84.85	
L10110844-10	1.35	22.61	18.7			81.61	
L10110844-11	1.35	37.01	33.39			89.85	
L10110845-01	1.3	14.66	11.65			77.47	
L10110845-02	1.32	28.76	20.14			68.59	
L10110846-01	1.33	12.67	12.4			97.62	
L10110846-02	1.35	28.54	28.33			99.23	
L10110846-03	1.34	26.67	26.14			97.91	
L10110846-04	1.33	7.19	7.13			98.98	
WG350309-01	1.33	7.19	7.13			98.98	1.024
WG350309-02	1.34	12.08	11.92			98.51	1.490

Analyst: 

PERCENT_SOLIDS - Modified 04/24/2008
PDF ID: 1856362
Report generated: 12/03/2010 10:10

3.0 Attachments

Microbac Laboratories Inc.
Analyst Listing
December 9, 2010

ADC – ANTHONY D. CANTER	AJF – AMANDA J. FICKIESEN	ALB – ANNIE L. BROWN
ALV – AMY L. VALENTINE	AML – TONY M. LONG	AZH – AFTER HOURS
BLG – BRENDA L. GREENWALT	BRG – BRENDA R. GREGORY	CAA – CASSIE A. AUGENSTEIN
CAF – CHERYL A. FLOWERS	CEB – CHAD E. BARNES	CLC – CHRYS L. CRAWFORD
CLS – CARA L. STRICKLER	CLW – CHARISSA L. WINTERS	CPD – CHAD P. DAVIS
CSH – CHRIS S. HILL	DDE – DEBRA D. ELLIOTT	DEL – DON E. LIGHTFRITZ
DEV – DAVID E. VANDENBERG	DGB – DOUGLAS G. BUTCHER	DIH – DEANNA I. HESSON
DLB – DAVID L. BUMGARNER	DLP – DOROTHY L. PAYNE	DLR – DIANNA L. RAUCH
ECL – ERIC C. LAWSON	EDA – ERIN D. AGEE	ERP – ERIN R. PORTER
FJB – FRANCES J. BOLDEN	HAV – HEMA VILASAGAR	HJR – HOLLY J. REED
JAL – JOHN A. LENT	JBK – JEREMY B. KINNEY	JDH – JUSTIN D. HESSON
JKT – JANE K. THOMPSON	JWR – JOHN W. RICHARDS	JWS – JACK W. SHEAVES
JYH – JI Y. HU	KEB – KATIE E. BARNES	KHR – KIM H. RHODES
KRA – KATHY R. ALBERTSON	LKN – LINDA K. NEDEFF	LSB – LESLIE S. BUCINA
MDA – MIKE D. ALBERTSON	MDC – MIKE D. COCHRAN	MES – MARY E. SCHILLING
MMB – MAREN M. BEERY	MRT – MICHELLE R. TAYLOR	MSW – MATT S. WILSON
PDM – PIERCE D. MORRIS	PWD – PAUL W. DENT	RAH – ROY A. HALSTEAD
RB – BOB BUCHANAN	REK – BOB E. KYER	RLK – ROBIN L. KLINGER
RWC – RODNEY W. CAMPBELL	SLM – STEPHANIE L. MOSSBURG	SLP – SHERI L. PFALZGRAF
TIP – TAE I. PARRISH	TMB – TIFFANY M. BAILEY	TMM – TAMMY M. MORRIS
VC – VICKI COLLIER	WJB – WILL J. BEASLEY	WTD – WADE T. DELONG

Microbac Laboratories Inc.
List of Valid Qualifiers
December 09, 2010

Qualkey: DOD

Qualifier	Description
*	Surrogate or spike compound out of range
+	Correlation coefficient for the MSA is less than 0.995
<	Result is less than the associated numerical value.
>	Result is greater than the associated numerical value.
A	See the report narrative
B	The reported result is associated with a contaminated method blank.
B1	Target analyte detected in method blank at or above the method reporting limit
B3	Target analyte detected in calibration blank at or above the method reporting limit
B4	The BOD unseeded dilution water blank exceeded 0.2 mg/L
C	Confirmed by GC/MS
CG	Confluent growth
DL	Surrogate or spike compound was diluted out
E	Estimated concentration due to sample matrix interference
EDL	Elevated sample reporting limits, presence of non-target analytes
EMPC	Estimated Maximum Possible Concentration
F, S	Estimated result below quantitation limit; method of standard additions(MSA)
FL	Free Liquid
H1	Sample analysis performed past holding time.
I	Semiquantitative result (out of instrument calibration range)
J	Estimated concentration; sample matrix interference.
J	Estimated value ; the analyte concentration was greater than the highest standard
J	Estimated value ; the analyte concentration was less than the low standard (LOQ)
J	The reported result is an estimated value.
J,B	Analyte detected in both the method blank and sample above the MDL.
J,P	Estimate; columns don't agree to within 40%
J,S	Estimated concentration; analyzed by method of standard addition (MSA)
L	Sample reporting limits elevated due to matrix interference
L1	The associated blank spike (LCS) recovery was above the laboratory acceptance limits.
L2	The associated blank spike (LCS) recovery was below the laboratory acceptance limits.
M	Matrix effect; the concentration is an estimate due to matrix effect.
N	Nontarget analyte; the analyte is a tentativlely identified compound (TIC) by GC/MS
NA	Not applicable
ND	Not detected at or above the reporting limit (RL).
ND, L	Not detected; sample reporting limit (RL) elevated due to interference
ND, S	Not detected; analyzed by method of standard addition (MSA)
NF	Not found by library search
NFL	No free liquid
NI	Non-ignitable
NR	Analyte is not required to be analyzed
NS	Not spiked
P	Concentrations >40% difference between the two GC columns
Q	One or more quality control criteria failed. See narrative.
QNS	Quantity of sample not sufficient to perform analysis
RA	Reanalysis confirms reported results
RE	Reanalysis confirms sample matrix interference
S	Analyzed by method of standard addition (MSA)
SMI	Sample matrix interference on surrogate
SP	Reported results are for spike compounds only
TIC	Library Search Compound
TNTC	Too numerous to count
U	Analyte was not detected. The concentration is below the reported LOD.
UJ	Undetected; the analyte was analyzed for, but not detected.
UQ	Undetected; the analyte was analyzed for, but not detected.
W	Post-digestion spike for furnace AA out of control limits
X	Exceeds regulatory limit
X, S	Exceeds regulatory limit; method of standard additions (MSA)
Z	Cannot be resolved from isomer - see below

*****Special Notes for Organic Analytes**

Qualkey: DOD

1. Acrolein and acrylonitrile by method 624 are semi-quantitative screens only.
2. 1,2-Diphenylhydrazine is unstable and is reported as azobenzene.
3. N-nitrosodiphenylamine cannot be separated from diphenylamine.
4. 3-Methylphenol and 4-Methylphenol are unresolvable compounds.
5. m-Xylene and p-Xylene are unresolvable compounds.
6. The reporting limits for Appendix II/IX compounds by method 8270 are based on EPA estimated PQLs referenced in 40 CFR Part 264, Appendix IX. They are not always achievable for every compound an are matrix dependent.

CT LABORATORIES
delivering more than data from your environmental analyses

1230 Lange Court • Baraboo, WI 53913 • 608-356-2760
www.ctlaboratories.com

Upon Receipt of Samples, please verify that samples were received in acceptable condition then sign this form and fax to (608)356-2766 or email to the project manager. **Sample temperature, upon receipt, must be recorded on this document unless thermal preservation is not a method requirement.**

Ship to: **Microbac**
158 Starlight Drive
Marietta, OH 45750

Return Invoice and Results to:

CT Laboratories
Pat Letterer
1230 Lange Court
Baraboo WI 53913
pletterer@ctlaboratories.com

SEE PAGE 2 FOR INFORMATION!

2210000010623

PURCHASE ORDER # 82424 MICROBAC ***The PO# must appear on all invoice and reports!***

Date Due: 2 WEEK TAT ***RUSH TURNAROUND NEEDED? Y or (N) (Circle One)***

Report results as EDD? N (Y) (Circle one and indicate type: ADR A1 & A3) Data Deliverable Package LEVEL: LEVEL IV

CTLabs ID#	Sample Date/Time	Matrix	Sample Description	Analyses / Method		Cos
~~870189~~	~~11/10/2010 1015~~	~~SOIL~~	~~DLASS-002-0001-SO~~	PESTICIDES	SW8081	
870194	11/9/2010 1220	SOIL	DLASS-022-0001-SO	PESTICIDES		
~~870195~~	~~11/9/2010 1230~~	~~SOIL~~	~~DLASS-022-0003-SO~~	PESTICIDES		
870201	11/9/2010 1525	SOIL	DLASS-014-0001-SO	PESTICIDES		
870203	11/9/2010 1535	SOIL	DLASS-014-0003-SO	PESTICIDES		
~~870212~~	~~11/10/2010 1025~~	~~SOIL~~	~~DLASS-002-0003-SO~~	PESTICIDES		

Relinquished by: PML
Date/Time: 11-23-10, 1344

Received by: Date/Time: Receipt Temperature (C)

Microbac OVD
Received: 11/24/2010 11:32
By: JANE THOMPSON

COMMENTS:

REPORT ALL SOLIDS ON A DRY WEIGHT BASIS UNLESS OTHERWISE INDICATED

Per the client the sample Hold time does not begin until grinding and homogenization has been completed. Hold times start as follows

870201 & 870203: 11/17/2010 @ 17:00

Samples are to be analyzed following QSM v. 4.1

1000010623

COOLER INSPECTION

Received: 11/24/2010 11:32
Delivery Method: FedEx
Opened By: Jane Thompson
Comments:

Login(s): L10110845|

Cooler(s)

Cooler #	Temp Gun	Temp	Tracking #	COC #	Comments
0015124	H	4.0	345750315100000245123003459020 13		

1	Yes	Were shipping coolers sealed?
2	Yes	Were custody seals intact?
3	Yes	Were cooler temperatures in range of 0-6?
4	Yes	Was ice present?
5	Yes	Were COC's received/information complete/signed and dated?
6	Yes	Were sample containers and labels intact and match COC?
7	Yes	Were the correct containers and volumes received?
8	Yes	Were samples received within EPA hold times?
9	NA	Were correct perservatives used? (water only)
10	NA	Were pH ranges acceptable? (voa's excluded)
11	NA	Were VOA samples free of headspace (less than 6mm)?

Discrepancies:

Microbac - Ohio Valley Division
158 Starlite Drive
Marietta, OH 45750
Tel: (740)373-4071 Fax: (740)373-4835

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L10110845
Account: 2694
Project: 2694.006
Samples: 2
Due Date: 03-DEC-2010

Samplenum	Container ID	Products
L10110845-01	771257	PCT-S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	29-NOV-2010 12:06	RLK	
2	PREP	W1	EXT	30-NOV-2010 06:20	CEB	AZH
3	STORE	EXT	W1	30-NOV-2010 11:49	RLK	CEB
4	ANALYZ	WET	W1	03-DEC-2010 10:25	RLK	JDH
5	STORE	W1	A2	06-DEC-2010 12:40	BLG	BLG

Samplenum	Container ID	Products
L10110845-02	771258	PCT-S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	29-NOV-2010 12:06	RLK	
2	PREP	W1	EXT	30-NOV-2010 06:20	CEB	AZH
3	STORE	EXT	W1	30-NOV-2010 11:49	RLK	CEB
4	ANALYZ	WET	W1	03-DEC-2010 10:25	RLK	JDH
5	STORE	W1	A2	06-DEC-2010 12:40	BLG	BLG

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

CHAIN OF CUSTODY,
PM CONFIRMATION
AND
SAMPLE CONDITION FORMS
DOCUMENTS

Jam 2

Rev. 3/2006

Chain of Custody

Page 1 of 1

Company: USACE
Project Contact: DEREK KINDER
Telephone: 502-315-6393
Project Name: ORE PILES
Project Number:
Project Location: RAVENNA AAP
Sampled By:

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other CERCLA

CT LABORATORIES
delivering more than data from your environmental analyses

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Turnaround Time
Normal RUSH*
Date Needed _____

*Notify Lab prior to sending in RUSH samples. Surcharges:
24 hr 200% 2-3 days 100% 4-9 days 50%
subject to change without notice.

Folder #: 82399
Company: USACE - LOUISVILLE
Project: RAVENNA
Logged By: JLS PM: PM

Mail Report To:
Company:
Address:
y/State/Zip:

oice To:
mpany:
ldress:
ty/State/Zip:
) No.

Client Special Instructions:

Landfill License Number:

Collection Date	Collection Time	Grab/ Comp	Sample ID Description	WDNR Well ID #	**Matrix:	TAL Metals +Mercury+CrVI	Asbestos							Total # of Containers	Preservation*	Lab ID #
				Filt? Y/N												
				Fill in Spaces with Bottles per Test												
11/9/10	1100	MI	DLAss-010-0001-SO		Soil	X	X							1		869552
11/9/10	1022	MI	DLAss-019-0001-SO		Soil	X	X							1		869553
11/9/10	1155	MI	DLAss-009-0001-SO		Soil	X	X							1		869554
11/9/10	1235	MI	DLAss-024-0001-SO		Soil	X	X							1		869555
11/9/10	1028	MI	DLAss-004-0001-SO		Soil	X	X							1		869556

* Preservation Code
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

Relinquished By:	Date/Time	Relinquished By:	Date/Time
Derek Kinder	11/9/10 1600		
Received by:	Date/Time	Received for Laboratory by:	Date/Time
Fed Ex	11/9/10 1600		11/10/10 1159

Ice Present (Yes) No
Temperature 4.6°C
Cooler # theirs
11-10-10 MWD 1055

**Matrix
S-Soil A-Air Sl-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

Folder #: 82399

PM LOGIN CONFIRMATION

Company: USACE - LOUISVILLE **Contract #:** 2263 **Project:** RAVENNA **Proj #:** W912QR-07-D-0019

PO Number: TO # 0012 **Invoice #:** 82531 **Project Manager:** *PML*

Date Received: 11/10/10 **Log Date:** 11/10/2010 **Projected Sample Disposal Date:** 4 **days from receipt date**

Report To: DEREK KINDER
CC:
600 DR MLKJ PLACE
PO BOX 59 ROOM 921
LOUISVILLE, KY 40201-0059
Phone: :
Fax:
Rep. E-Mail

Invoice To :
CC:
USACE FINANCE CENTER (UFC)
5733 INTEGRITY DR
MILLINGTON, TN 38054-5005
Phone:
Fax:
EMail:

Collected By:
Collector's Phone:
Arrival Temperature: oC

SAMPLE #: 869552 DESCR: DLASS-010-0001-SO MATRIX: SOIL SAMPLED: 11/9/2010 Time: 1100 CLIENT SAMPLE #:

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				11/23/2010	11/22/2010		Logged
214	SUB ASBESTOS DW					11/22/2010		Logged
817	ICP QSM				5/8/2011	11/22/2010		NeedPrep
		Aluminum						
		Antimony						
		Arsenic						
		Barium						
		Beryllium						
		Cadmium						
		Calcium						
		Chromium						
		Cobalt						
		Copper						
		Iron						

SAMPLE #: 869552 **DESCR:** DLASS-010-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/9/2010 **Time:** 1100 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
		Lead						
		Magnesium						
		Manganese						
		Nickel						
		Selenium						
		Silver						
		Thallium						
		Vanadium						
		Zinc						
827	ICP K QSM				5/8/2011	11/22/2010		NeedPrep
828	ICP NA QSM				5/8/2011	11/22/2010		NeedPrep
833	MERCURY QSM				12/7/2010	11/22/2010		NeedPrep
946	HOMOGEN/M.I. PREP					11/22/2010		Logged
951	HEX CHROME QSM SOIL					11/22/2010		NeedPrep

SAMPLE #: 869553 **DESCR:** DLASS-019-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/9/2010 **Time:** 1022 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				11/23/2010	11/22/2010		Logged
214	SUB ASBESTOS DW					11/22/2010		Logged
817	ICP QSM				5/8/2011	11/22/2010		NeedPrep
		Aluminum						
		Antimony						
		Arsenic						
		Barium						
		Beryllium						
		Cadmium						
		Calcium						
		Chromium						

SAMPLE #: 869553 **DESCR:** DLASS-019-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/9/2010 **Time:** 1022 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
		Cobalt						
		Copper						
		Iron						
		Lead						
		Magnesium						
		Manganese						
		Nickel						
		Selenium						
		Silver						
		Thallium						
		Vanadium						
		Zinc						
827	ICP K QSM				5/8/2011	11/22/2010		NeedPrep
828	ICP NA QSM				5/8/2011	11/22/2010		NeedPrep
833	MERCURY QSM				12/7/2010	11/22/2010		NeedPrep
946	HOMOGEN/M.I. PREP					11/22/2010		Logged
951	HEX CHROME QSM SOIL					11/22/2010		NeedPrep

SAMPLE #: 869554 **DESCR:** DLASS-009-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/9/2010 **Time:** 1155 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				11/23/2010	11/22/2010		Logged
214	SUB ASBESTOS DW					11/22/2010		Logged
817	ICP QSM				5/8/2011	11/22/2010		NeedPrep
		Aluminum						
		Antimony						
		Arsenic						
		Barium						
		Beryllium						

Folder #: 82399 **Company:** *USACE - LOUISVILLE* **Project:** RAVENNA

SAMPLE #: 869554 **DESCR:** DLASS-009-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/9/2010 **Time:** 1155 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
		Cadmium						
		Calcium						
		Chromium						
		Cobalt						
		Copper						
		Iron						
		Lead						
		Magnesium						
		Manganese						
		Nickel						
		Selenium						
		Silver						
		Thallium						
		Vanadium						
		Zinc						
827	ICP K QSM				5/8/2011	11/22/2010		NeedPrep
828	ICP NA QSM				5/8/2011	11/22/2010		NeedPrep
833	MERCURY QSM				12/7/2010	11/22/2010		NeedPrep
946	HOMOGEN/M.I. PREP					11/22/2010		Logged
951	HEX CHROME QSM SOIL					11/22/2010		NeedPrep

SAMPLE #: 869555 **DESCR:** DLASS-024-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/9/2010 **Time:** 1235 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				11/23/2010	11/22/2010		Logged
214	SUB ASBESTOS DW					11/22/2010		Logged
817	ICP QSM				5/8/2011	11/22/2010		NeedPrep
		Aluminum						
		Antimony						

SAMPLE #: 869555 **DESCR:** DLASS-024-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/9/2010 **Time:** 1235 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
		Arsenic						
		Barium						
		Beryllium						
		Cadmium						
		Calcium						
		Chromium						
		Cobalt						
		Copper						
		Iron						
		Lead						
		Magnesium						
		Manganese						
		Nickel						
		Selenium						
		Silver						
		Thallium						
		Vanadium						
		Zinc						
827	ICP K QSM				5/8/2011	11/22/2010		NeedPrep
828	ICP NA QSM				5/8/2011	11/22/2010		NeedPrep
833	MERCURY QSM				12/7/2010	11/22/2010		NeedPrep
946	HOMOGEN/M.I. PREP					11/22/2010		Logged
951	HEX CHROME QSM SOIL					11/22/2010		NeedPrep

SAMPLE #: 869556 **DESCR:** DLASS-004-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/9/2010 **Time:** 1028 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				11/23/2010	11/22/2010		Logged
214	SUB ASBESTOS DW					11/22/2010		Logged

Folder #: 82399 **Company:** *USACE - LOUISVILLE* **Project:** RAVENNA

SAMPLE #: 869556 **DESCR:** DLASS-004-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/9/2010 **Time:** 1028 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
817	ICP QSM				5/8/2011	11/22/2010		NeedPrep
		Aluminum						
		Antimony						
		Arsenic						
		Barium						
		Beryllium						
		Cadmium						
		Calcium						
		Chromium						
		Cobalt						
		Copper						
		Iron						
		Lead						
		Magnesium						
		Manganese						
		Nickel						
		Selenium						
		Silver						
		Thallium						
		Vanadium						
		Zinc						
827	ICP K QSM				5/8/2011	11/22/2010		NeedPrep
828	ICP NA QSM				5/8/2011	11/22/2010		NeedPrep
833	MERCURY QSM				12/7/2010	11/22/2010		NeedPrep
946	HOMOGEN/M.I. PREP					11/22/2010		Logged
951	HEX CHROME QSM SOIL					11/22/2010		NeedPrep

Folder #: 82399 **Company:** *USACE - LOUISVILLE* **Project:** RAVENNA

Invoice Number: 82531 **Preliminary Invoice Estimate:** $ 1,357.50

Item	Matrix	Quantity	Price	Expedited TAT Surcharge	Total
HEX CHROME QSM SOIL	SOIL	5	$ 52.50	0.00	$ 262.50
HOMOGEN/M.I. PREP	SOIL	5	$ 57.75	0.00	$ 288.75
ICP K QSM	SOIL	5	$ 5.00	0.00	$ 25.00
ICP NA QSM	SOIL	5	$ 5.00	0.00	$ 25.00
ICP QSM Aluminum	SOIL	5	$ 5.00	0.00	$ 25.00
ICP QSM Antimony	SOIL	5	$ 5.00	0.00	$ 25.00
ICP QSM Arsenic	SOIL	5	$ 5.00	0.00	$ 25.00
ICP QSM Barium	SOIL	5	$ 5.00	0.00	$ 25.00
ICP QSM Beryllium	SOIL	5	$ 5.00	0.00	$ 25.00
ICP QSM Cadmium	SOIL	5	$ 5.00	0.00	$ 25.00
ICP QSM Calcium	SOIL	5	$ 5.00	0.00	$ 25.00
ICP QSM Chromium	SOIL	5	$ 5.00	0.00	$ 25.00
ICP QSM Cobalt	SOIL	5	$ 5.00	0.00	$ 25.00
ICP QSM Copper	SOIL	5	$ 5.00	0.00	$ 25.00
ICP QSM Iron	SOIL	5	$ 5.00	0.00	$ 25.00
ICP QSM Lead	SOIL	5	$ 5.00	0.00	$ 25.00
ICP QSM Magnesium	SOIL	5	$ 5.00	0.00	$ 25.00
ICP QSM Manganese	SOIL	5	$ 5.00	0.00	$ 25.00
ICP QSM Nickel	SOIL	5	$ 5.00	0.00	$ 25.00
ICP QSM Selenium	SOIL	5	$ 5.00	0.00	$ 25.00
ICP QSM Silver	SOIL	5	$ 5.00	0.00	$ 25.00
ICP QSM Thallium	SOIL	5	$ 5.00	0.00	$ 25.00
ICP QSM Vanadium	SOIL	5	$ 5.00	0.00	$ 25.00
ICP QSM Zinc	SOIL	5	$ 5.00	0.00	$ 25.00
MERCURY QSM	SOIL	5	$ 26.25	0.00	$ 131.25
SOLIDS,PERCENT	SOIL	5	$ 0.00	0.00	$ 0.00
SUB ASBESTOS DW	SOIL	5	$ 25.00	0.00	$ 125.00
Temporary Fuel Surcharge on lab supplies and services (if applicable):					$ 0.00

Bottle Information

Container	# Containers	Tests
FOR LABEL ONLY	**10**	SOIL PREP/MIX
SOLIDS	**5**	%SOL

CT LABORATORIES
delivering more than data from your environmental analyses

Sample Condition Report

Folder #: 82399
Client: USACE - LOUISVILLE

Print Date / Time: 11/10/2010 11:59
Received Date / Time / By: 11/10/2010 1055 MWD

Project Name: RAVENNA
Project #: W912QR-07-D-0019

Log-In Date / Time / By: 11/10/2010 1159 JLS
PM: PML

Coolers: THEIRS
Custody Seals Present : **Y**

Temperature: 4.6 C On Ice: **Y**
COC Present:? **Y** Complete? **Y**

Seal Intact? **Y**
Ship Method: FEDEX EXPRESS
Adequate Packaging: **Y**

Numbers: DATED AND SIGNED
Tracking Number: 870084100839
Temp Blank Enclosed? **Y**

Notes: SAMPLES REC'D IN GOOD CONDITION ON ICE
1 CUSTODY SEAL INTACT DATED 11/9/10 AND SIGNED

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
869552 DLASS-010-0001-SO					
	SOLIDS	1		%SOL	
	Total # of Containers of Type (*SOLIDS*) = 1				
869552 DLASS-010-0001-SO					
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	Total # of Containers of Type (*FOR LABEL ONLY*) = 2				
869553 DLASS-019-0001-SO					
	SOLIDS	1		%SOL	
	Total # of Containers of Type (*SOLIDS*) = 1				
869553 DLASS-019-0001-SO					
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	Total # of Containers of Type (*FOR LABEL ONLY*) = 2				
869554 DLASS-009-0001-SO					
	SOLIDS	1		%SOL	
	Total # of Containers of Type (*SOLIDS*) = 1				
869554 DLASS-009-0001-SO					
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	Total # of Containers of Type (*FOR LABEL ONLY*) = 2				
869555 DLASS-024-0001-SO					
	SOLIDS	1		%SOL	

		Total # of Containers of Type (*SOLIDS*) = 1			
869555	DLASS-024-0001-SO				
		FOR LABEL ONLY	1		SOIL PREP/MIX
		FOR LABEL ONLY	1		SOIL PREP/MIX
		Total # of Containers of Type (*FOR LABEL ONLY*) = 2			

Sample ID / Description		Container Type	Cond. Code	pH OK?	Tests	Filtered?
869556	DLASS-004-0001-SO					
		SOLIDS	1		%SOL	
		Total # of Containers of Type (*SOLIDS*) = 1				
869556	DLASS-004-0001-SO					
		FOR LABEL ONLY	1		SOIL PREP/MIX	
		FOR LABEL ONLY	1		SOIL PREP/MIX	
		Total # of Containers of Type (*FOR LABEL ONLY*) = 2				

Condition Code	*Condition Description*
1	Sample Received OK

their cooler
11/10/10 MWD 1055
4.6°C on ice

CUSTODY SEAL

Person Collecting Sample Derek Eade

Sample No.

Date Collected 11/9/10

Time Collected

FedEx Express US Airbill

FedEx Tracking Number 8700 8410 0839

1 From

Date 11/9/10

Sender's Name Derek Kinne Phone

Company US Army Corps of Engineers

Address 645 St Rt 5 Bldg 036 Dept./Floor/Suite/Room

City Paterno State OH ZIP 44266

Your Internal Billing Reference

2 To Recipient's Name Pat Peterson Phone

Company KT Laboratories

HOLD Weekday Print FedEx location address below. NOT available for FedEx First Overnight.

HOLD Saturday Print FedEx location address below. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Address 1236 Grange Court Dept./Floor/Suite/Room

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address Print FedEx location address here if a HOLD option is selected.

City Baraboo State WI ZIP 53913

8700 8410 0839

Recipient's Copy

4a Express Package Service * To most locations. Packages up to 150 lbs.

- FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [x] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.
- FedEx First Overnight — Earliest next business morning delivery to selected locations.* Saturday Delivery NOT available.
- FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

4b Express Freight Service ** To most locations. Packages over 150 lbs.

- FedEx 1Day Freight — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected. FedEx 1Day Freight Booking No.
- FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

- FedEx Envelope*
- [x] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.
- FedEx Box
- FedEx Tube
- Other

6 Special Handling and Delivery Signature Options

- SATURDAY Delivery — NOT available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
- No Signature Required — Package may be left without obtaining a signature for delivery.
- Direct Signature — Someone at recipient's address may sign for delivery. Fee applies.
- Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.

Does this shipment contain dangerous goods? One box must be checked.

- [x] No
- Yes — As per attached Shipper's Declaration.
- Yes — Shipper's Declaration not required.
- Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

- Cargo Aircraft Only

7 Payment Bill to: Enter FedEx Acct. No. or Credit Card No. below. Obtain Recip. Acct. No.

- [x] Sender — Acct. No. in Section 1 will be billed.
- Recipient
- Third Party
- Credit Card
- Cash/Check

Total Packages 1 Total Weight 40 lbs. Total Declared Value† $ .00 Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

554

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fedex.com 1.800.GoFedEx 1.800.463.3339

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Chain of Custody

Page 1 of 1

Company: USACE
Project Contact: DEREK KINDER
Telephone: 502 315 6393
Project Name: OPE PILES
Project Number: —
Project Location: RAVENNA AAP
Sampled By:

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other CERCLA

CT LABORATORIES
delivering more than data from your environmental analyses

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Turnaround Time
(Normal) RUSH*
Date Needed _____

*Notify Lab prior to sending in RUSH samples. Surcharges:
24 hr 200% 2-3 days 100% 4-9 days 50%,
subject to change without notice.

Folder #: 82424
Company: USACE - LOUISVILLE
Project: RAVENNA
Logged By: JLS PM: PM

Mail Report To:
Company:
Address:
City/State/Zip:

Invoice To:
Company:
Address:
City/State/Zip:

PO No.

Client Special Instructions:
Metals include
Cr VI + Mercury

Landfill License Number:

Filt? Y/N

Collection Date	Collection Time	Grab/ Comp	Sample ID Description	WDNR Well ID #	**Matrix:	Explosives + Propellants	Metals	SVOCs	PCB	Pesticides	Asbestos			Total # of Containers	Preservation*	Lab ID #
			Fill in Spaces with Bottles per Test													
11/10/10	0955	MI	DLASS-027-0001-SO		S		X				X					870188
11/10/10	1015	MI	DLASS-002-0001-SO		S	X	X	X	X	X	X	MS/MSD				870189
11/10/10	1225	MI	DLASS-018-0001-SO		S		X				X					870190
11/10/10	1030	MI	DLASS-001-0001-SO		S		X				X					870191
11/10/10	1405	MI	DLASS-016-0001-SO		S		X				X					870192
11/10/10	1330	MI	DLASS-017-0001-SO		S		X				X					870193

* **Preservation Code**
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

**Matrix
S-Soil A-Air Sl-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

Relinquished By:	Date/Time	Relinquished By:	Date/Time
Derek Kinder	11/10/10 1800		
Received by:	**Date/Time**	**Received for Laboratory by:**	**Date/Time**
FedEx			11/11/10 1140

Ice Present (Yes) No
Temperature 2.9°C
Cooler # 3813
11/11/10 0945 MWD

Rev. 3/2006

Chain of Custody

Page 1 of 1

Company: USACE
Project Contact: DEREK KINDER
Telephone: 502 315 6393
Project Name: OLC PILES
Project Number: —
Project Location: RAVENNA AAP
Sampled By:

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other CERCLA

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608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Turnaround Time
(Normal) RUSH*
Date Needed _____

*Notify Lab prior to sending in RUSH samples. Surcharges:
24 hr 200% 2-3 days 100% 4-9 days 50%,
subject to change without notice.

Lab Use Only
Place Header Sticker Here
8.290

Mail Report To:
Company:
Address:
City/State/Zip:

Invoice To:
Company:
Address:
City/State/Zip:

PO No.

Client Special Instructions:

Landfill License Number:

Collection Date	Collection Time	Grab/ Comp	Sample ID Description	Filt? Y/N	WDNR Well ID #	**Matrix:	VOCs							Total # of Containers	Preservation*	Lab ID #
				Fill in Spaces with Bottles per Test												
11/10/10	1230	G	DLASS-023-0001-SO			S	X									870182
11/10/10	1400	G	DLASS-033-0001-SO			S	X									870183
11/10/10	0900	G	DLASS-003-0001-SO			S	X	MS/MSD								870184
11/10/10	0900	G	DLASS-003-0002-SO			S	X									870185
11/10/10	1430	G	DLASS-043-0001-SO			S	X									870186
11/10/10	1000	G	DLASS-015-0001-SO			S	X									870187

* **Preservation Code**
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

Relinquished By:	Date/Time	Relinquished By:	Date/Time
Derek Kinder	11/10/10 1800		
Received by:	Date/Time	Received for Laboratory by:	Date/Time
Fed ex			11/11/10 1140

Ice Present (Yes) No
Temperature 1.8
Cooler # 3711
11/11/10 1140 0959 YLS

**Matrix
S-Soil A-Air Sl-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

Rev. 3/2006

Chain of Custody

Page 1 of 1

Company: USACE
Project Contact: DEREK KINDER
Telephone: 502 315 6393
Project Name: ORC FILES
Project Number: —
Project Location: RAVENNA AAP
Sampled By:

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other CERCLA

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Turnaround Time
(Normal) RUSH*
Date Needed _____

*Notify Lab prior to sending in RUSH samples. Surcharges:
24 hr 200% 2-3 days 100% 4-9 days 50%,
subject to change without notice.

Lab Use Only
Place Header Sticker Here:

82424

Mail Report To:
Company:
Address:
City/State/Zip:

Invoice To:
Company:
Address:
City/State/Zip:

PO No.

Client Special Instructions:

Landfill License Number:

Collection Date	Collection Time	Grab/ Comp	Sample ID Description	Filt? Y/N	WDNR Well ID #	**Matrix:	Explosives Propellants	Tal Metals + Mercury + CrVI	SVOCs PCBs Pesticides	Asbestos					Total # of Containers	Preservation*	Lab ID #
				Fill in Spaces with Bottles per Test													
11/9/10	1220	MI	DLAss-022-0001-SO			Soil	X	X	X	X							870194
11/9/10	1230	MI	DLAss-022-0003-SO			Soil	X	X	X	X							870195
11/9/10	1100	MI	DLAss-008-0001-SO			Soil		X		X							870196
11/9/10	1030	MI	DLAss-021-0001-SO			Soil		X		X							870197

*** Preservation Code**
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

Relinquished By:	Date/Time	Relinquished By:	Date/Time
Derek Kinder	11/10/10 1600		
Received by:	**Date/Time**	**Received for Laboratory by:**	**Date/Time**
Fedex	11/10/10 1600		11/11/10 1140

Ice Present (Yes) No
Temperature 1.8°
Cooler # Kemron Cooler
BML, 11-11-10, 0950

****Matrix**
S-Soil A-Air Sl-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

Chain of Custody

Page 1 of 1

Rev. 3/2006

Company: USACE
Project Contact: Derek Kinder
Telephone: 502-315-6393
Project Name: Ore Piles
Project Number:
Project Location: Ravenna AAP
Sampled By:

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608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Mail Report To:
Company:
Address:
City/State/Zip:

Invoice To:
Company:
Address:
City/State/Zip:

PO No.

Turnaround Time
Normal RUSH*
Date Needed _____

*Notify Lab prior to sending in RUSH samples. Surcharges:
24 hr 200% 2-3 days 100% 4-9 days 50%,
subject to change without notice.

Lab Use Only
Place Header Sticker Here:
82424

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other CERCLA

Client Special Instructions:
Metals include Cr VI + Mercury

Landfill License Number:

Collection Date	Collection Time	Grab/ Comp	Sample ID Description	WDNR Well ID #	**Matrix:	Filt? Y/N	Explosives + Propellants	Metals	SVOC	PCB	Pesticides	Asbestos			Total # of Containers	Preservation*	Lab ID #
				Fill in Spaces with Bottles per Test													
11/09/10	0920	MI	DLASS-005-0001-SO		S			X				X					870200
11/09/10	1525	MI	DLASS-014-0001-SO		S		X	X	X	X	X	X	MS/MSD				870201
11/09/10	1500	MI	DLASS-011-0001-SO		S			X				X					870202
11/09/10	1535	MI	DLASS-014-0003-SO		S		X	X	X	X	X	X					870203
11/10/10	1316	MI	DLASS-030-0001-SO		S			X				X					870204

Preservation Code
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

Relinquished By:	Date/Time	Relinquished By:	Date/Time
Derek Kinder	11/10/10 1800		
Received by:	Date/Time	Received for Laboratory by:	Date/Time
Fedex			11/11/10 1140

Ice Present (Yes) No
Temperature 2.6
Cooler # 3612
11/11/10 0950

**Matrix
S-Soil A-Air Sl-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

Rev. 3/2006

Chain of Custody

Page 1 of 1

Company: USACE
Project Contact: DEREK KINDER
Telephone: 502 315 6393
Project Name: ORE PILES
Project Number: —
Project Location: RAVENNA AAP
Sampled By:

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other CERCLA

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1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Turnaround Time
Normal RUSH*
Date Needed _____

*Notify Lab prior to sending in RUSH samples. Surcharges:
24 hr 200% 2-3 days 100% 4-9 days 50%,
subject to change without notice.

Lab Use Only
Place Header Sticker Here.
82424

Mail Report To:
Company:
Address:
City/State/Zip:

Invoice To:
Company:
Address:
City/State/Zip:

PO No.

Client Special Instructions:

Landfill License Number:

Collection Date	Collection Time	Grab/ Comp	Sample ID Description	Filt? Y/N	WDNR Well ID #	**Matrix:	TAL Metals + Cr VI + Mercury	Asbestos						Total # of Containers	Preservation*	Lab ID #
				Fill in Spaces with Bottles per Test												
11/9/10	1600	MI	DLAss-026-0001-SO			Soil	X	X								870207
11/9/10	1620		DLAss-029-0001-SO				X	X								870208
11/9/10	0900		DLAss-007-0001-SO				X	X								870209
11/9/10	1000		DLAss-020-0001-SO				X	X								870210
11/9/10	1549		DLAss-028-0001-SO				X	X								870211

*** Preservation Code**
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

Relinquished By:	Date/Time	Relinquished By:	Date/Time
Derek Kinder	11/10/10 1600		
Received by:	Date/Time	Received for Laboratory by:	Date/Time
Fed ex	11/10/10 1600		11/11/10 1140

Ice Present (Yes) No
Temperature 2.6
Cooler # GPL Cooler
11/11/10 0550 yls

****Matrix**
S-Soil A-Air Sl-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

Rev. 3/2006

Chain of Custody

Page 1 of 1

Company: USACE
Project Contact: DEREK KINDER
Telephone: 5023156393
Project Name: ORE PILES
Project Number: —
Project Location: RAVENNA AAP
Sampled By:

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other _____

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608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Turnaround Time
(Normal) RUSH*
Date Needed _____

*Notify Lab prior to sending in RUSH samples. Surcharges:
24 hr 200% 2-3 days 100% 4-9 days 50%,
subject to change without notice.

Lab Use Only
Place Header Sticker Here:

82424

Mail Report To:
Company:
Address:
City/State/Zip:

Invoice To:
Company:
Address:
City/State/Zip:

PO No.

Client Special Instructions:
Metals include
Cr VI + Mercury

Landfill License Number:

Collection Date	Collection Time	Grab/ Comp	Sample ID Description	WDNR Well ID #	**Matrix:	Filt? Y/N	Explosives + Propellents	Metals	SVOC	PCB	Pesticides	Asbestos			Total # of Containers	Preservation*	Lab ID #
				Fill in Spaces with Bottles per Test													
11/10/10	1025	MI	DLASS-002-0003-SO		S		X	X	X	X	X	X					870212
11/09/10	1630	MI	DLASS-012-0001-SO		S			X				X					870213
11/09/10	1500	MI	DLASS-025-0001-SO		S			X				X					870214
11/09/10	0900	MI	DLASS-006-0001-SO		S			X				X					870215
11/09/10	1458	MI	DLASS-013-0001-SO		S			X				X					870216

* **Preservation Code**
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

Relinquished By:	Date/Time	Relinquished By:	Date/Time
Derek Kinder	11/10/10 1800		
Received by:	Date/Time	Received for Laboratory by:	Date/Time
Fed ex			11/11/10 1140

Ice Present (Yes) No
Temperature 1.8
Cooler # 3376
11/11/10 0950

**Matrix
S-Soil A-Air Sl-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

Folder #: 82424

PM LOGIN CONFIRMATION

Company: USACE - LOUISVILLE **Contract #:** 2263 **Project:** RAVENNA **Proj #:** W912QR-10-D-0024

PO Number: **Invoice #:** 82557 **Project Manager:** *PML*

Date Received: 11/11/10 **Log Date:** 11/11/2010 **Projected Sample Disposal Date:** 4 **days from receipt date**

Report To: DEREK KINDER CC:
600 DR MLKJ PLACE
PO BOX 59 ROOM 921
LOUISVILLE, KY 40201-0059
Phone: : Fax:
Rep. E-Mail

Invoice To : CC:
USACE FINANCE CENTER (UFC)
5733 INTEGRITY DR
MILLINGTON, TN 38054-5005
Phone: Fax:
EMail:

Collected By:
Collector's Phone:

Arrival Temperature: oC

SAMPLE #: 870182 DESCR: DLASS-023-0001-SO MATRIX: SOIL SAMPLED: 11/10/2010 Time: 1230 CLIENT SAMPLE #:

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				11/24/2010	11/23/2010		Logged
779	VOC 8260 QSM				11/24/2010	11/23/2010		NeedPrep

SAMPLE #: 870183 DESCR: DLASS-033-0001-SO MATRIX: SOIL SAMPLED: 11/10/2010 Time: 1400 CLIENT SAMPLE #:

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				11/24/2010	11/23/2010		Logged
779	VOC 8260 QSM				11/24/2010	11/23/2010		NeedPrep

SAMPLE #: 870184 DESCR: DLASS-003-0001-SO MATRIX: SOIL SAMPLED: 11/10/2010 Time: 0900 CLIENT SAMPLE #:

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT			***DESIGNATED MATRIX SPIKE***	11/24/2010	11/23/2010		Logged
779	VOC 8260 QSM			***DESIGNATED MATRIX SPIKE***	11/24/2010	11/23/2010		NeedPrep

Folder #: 82424 **Company:** *USACE - LOUISVILLE* **Project:** RAVENNA

SAMPLE #: 870185 **DESCR:** DLASS-003-0002-SO **MATRIX:** SOIL **SAMPLED:** 11/10/2010 **Time:** 0900 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				11/24/2010	11/23/2010		Logged
779	VOC 8260 QSM				11/24/2010	11/23/2010		NeedPrep

SAMPLE #: 870186 **DESCR:** DLASS-043-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/10/2010 **Time:** 1430 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				11/24/2010	11/23/2010		Logged
779	VOC 8260 QSM				11/24/2010	11/23/2010		NeedPrep

SAMPLE #: 870187 **DESCR:** DLASS-015-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/10/2010 **Time:** 1000 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				11/24/2010	11/23/2010		Logged
779	VOC 8260 QSM				11/24/2010	11/23/2010		NeedPrep

SAMPLE #: 870188 **DESCR:** DLASS-027-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/10/2010 **Time:** 0955 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				11/24/2010	11/23/2010		Logged
214	SUB ASBESTOS DW					11/23/2010		Logged
817	ICP QSM				5/9/2011	11/23/2010		NeedPrep
		Aluminum						
		Antimony						
		Arsenic						
		Barium						
		Beryllium						
		Cadmium						
		Calcium						
		Chromium						
		Cobalt						
		Copper						

SAMPLE #: 870188 **DESCR:** DLASS-027-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/10/2010 **Time:** 0955 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
		Iron						
		Lead						
		Magnesium						
		Manganese						
		Nickel						
		Selenium						
		Silver						
		Thallium						
		Vanadium						
		Zinc						
827	ICP K QSM				5/9/2011	11/23/2010		NeedPrep
828	ICP NA QSM				5/9/2011	11/23/2010		NeedPrep
833	MERCURY QSM				12/8/2010	11/23/2010		NeedPrep
946	HOMOGEN/M.I. PREP					11/23/2010		Logged
951	HEX CHROME QSM SOIL					11/23/2010		NeedPrep

SAMPLE #: 870189 **DESCR:** DLASS-002-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/10/2010 **Time:** 1015 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT			***DESIGNATED MATRIX SPIKE***	11/24/2010	11/23/2010		Logged
214	SUB ASBESTOS DW			***DESIGNATED MATRIX SPIKE***		11/23/2010		Logged
780	SVOC 8270 QSM			***DESIGNATED MATRIX SPIKE***		11/23/2010		NeedPrep
796	NITROCELLULOSE			***DESIGNATED MATRIX SPIKE***		11/23/2010		NeedPrep
817	ICP QSM			***DESIGNATED MATRIX SPIKE***	5/9/2011	11/23/2010		NeedPrep
		Aluminum						
		Antimony						
		Arsenic						
		Barium						
		Beryllium						

SAMPLE #: 870189 **DESCR:** DLASS-002-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/10/2010 **Time:** 1015 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
		Cadmium						
		Calcium						
		Chromium						
		Cobalt						
		Copper						
		Iron						
		Lead						
		Magnesium						
		Manganese						
		Nickel						
		Selenium						
		Silver						
		Thallium						
		Vanadium						
		Zinc						
827	ICP K QSM			***DESIGNATED MATRIX SPIKE***	5/9/2011	11/23/2010		NeedPrep
828	ICP NA QSM			***DESIGNATED MATRIX SPIKE***	5/9/2011	11/23/2010		NeedPrep
833	MERCURY QSM			***DESIGNATED MATRIX SPIKE***	12/8/2010	11/23/2010		NeedPrep
855	PCB QSM			***DESIGNATED MATRIX SPIKE***		11/23/2010		NeedPrep
859	PESTICIDES QSM			***DESIGNATED MATRIX SPIKE***		11/23/2010		NeedPrep
891	EXPLOSIVES NITROGUAN			***DESIGNATED MATRIX SPIKE***		11/23/2010		NeedPrep
906	8330B EXPLOSIVES QSM			***DESIGNATED MATRIX SPIKE***		11/23/2010		NeedPrep
946	HOMOGEN/M.I. PREP			***DESIGNATED MATRIX SPIKE***		11/23/2010		Logged
951	HEX CHROME QSM SOIL			***DESIGNATED MATRIX SPIKE***		11/23/2010		NeedPrep

SAMPLE #: 870190 **DESCR:** DLASS-018-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/10/2010 **Time:** 1225 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				11/24/2010	11/23/2010		Logged

Folder #: 82424 **Company:** *USACE - LOUISVILLE* **Project:** RAVENNA

SAMPLE #: 870190 **DESCR:** DLASS-018-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/10/2010 **Time:** 1225 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
214	SUB ASBESTOS DW					11/23/2010		Logged
817	ICP QSM				5/9/2011	11/23/2010		NeedPrep
		Aluminum						
		Antimony						
		Arsenic						
		Barium						
		Beryllium						
		Cadmium						
		Calcium						
		Chromium						
		Cobalt						
		Copper						
		Iron						
		Lead						
		Magnesium						
		Manganese						
		Nickel						
		Selenium						
		Silver						
		Thallium						
		Vanadium						
		Zinc						
827	ICP K QSM				5/9/2011	11/23/2010		NeedPrep
828	ICP NA QSM				5/9/2011	11/23/2010		NeedPrep
833	MERCURY QSM				12/8/2010	11/23/2010		NeedPrep
946	HOMOGEN/M.I. PREP					11/23/2010		Logged
951	HEX CHROME QSM SOIL					11/23/2010		NeedPrep

Folder #: 82424 **Company:** *USACE - LOUISVILLE* **Project:** RAVENNA

SAMPLE #: 870191 **DESCR:** DLASS-001-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/10/2010 **Time:** 1030 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				11/24/2010	11/23/2010		Logged
214	SUB ASBESTOS DW					11/23/2010		Logged
817	ICP QSM				5/9/2011	11/23/2010		NeedPrep
		Aluminum						
		Antimony						
		Arsenic						
		Barium						
		Beryllium						
		Cadmium						
		Calcium						
		Chromium						
		Cobalt						
		Copper						
		Iron						
		Lead						
		Magnesium						
		Manganese						
		Nickel						
		Selenium						
		Silver						
		Thallium						
		Vanadium						
		Zinc						
827	ICP K QSM				5/9/2011	11/23/2010		NeedPrep
828	ICP NA QSM				5/9/2011	11/23/2010		NeedPrep
833	MERCURY QSM				12/8/2010	11/23/2010		NeedPrep
946	HOMOGEN/M.I. PREP					11/23/2010		Logged
951	HEX CHROME QSM SOIL					11/23/2010		NeedPrep

Folder #: 82424 **Company:** *USACE - LOUISVILLE* **Project:** RAVENNA

SAMPLE #: 870192 **DESCR:** DLASS-016-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/10/2010 **Time:** 1405 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				11/24/2010	11/23/2010		Logged
214	SUB ASBESTOS DW					11/23/2010		Logged
817	ICP QSM				5/9/2011	11/23/2010		NeedPrep
		Aluminum						
		Antimony						
		Arsenic						
		Barium						
		Beryllium						
		Cadmium						
		Calcium						
		Chromium						
		Cobalt						
		Copper						
		Iron						
		Lead						
		Magnesium						
		Manganese						
		Nickel						
		Selenium						
		Silver						
		Thallium						
		Vanadium						
		Zinc						
827	ICP K QSM				5/9/2011	11/23/2010		NeedPrep
828	ICP NA QSM				5/9/2011	11/23/2010		NeedPrep
833	MERCURY QSM				12/8/2010	11/23/2010		NeedPrep
946	HOMOGEN/M.I. PREP					11/23/2010		Logged
951	HEX CHROME QSM SOIL					11/23/2010		NeedPrep

Folder #: 82424 **Company:** *USACE - LOUISVILLE* **Project:** RAVENNA

SAMPLE #: 870193 **DESCR:** DLASS-017-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/10/2010 **Time:** 1330 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				11/24/2010	11/23/2010		Logged
214	SUB ASBESTOS DW					11/23/2010		Logged
817	ICP QSM				5/9/2011	11/23/2010		NeedPrep
		Aluminum						
		Antimony						
		Arsenic						
		Barium						
		Beryllium						
		Cadmium						
		Calcium						
		Chromium						
		Cobalt						
		Copper						
		Iron						
		Lead						
		Magnesium						
		Manganese						
		Nickel						
		Selenium						
		Silver						
		Thallium						
		Vanadium						
		Zinc						
827	ICP K QSM				5/9/2011	11/23/2010		NeedPrep
828	ICP NA QSM				5/9/2011	11/23/2010		NeedPrep
833	MERCURY QSM				12/8/2010	11/23/2010		NeedPrep
946	HOMOGEN/M.I. PREP					11/23/2010		Logged
951	HEX CHROME QSM SOIL					11/23/2010		NeedPrep

Folder #: 82424 **Company:** *USACE - LOUISVILLE* **Project:** RAVENNA

SAMPLE #: 870194 **DESCR:** DLASS-022-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/9/2010 **Time:** 1220 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				11/23/2010	11/23/2010		Logged
214	SUB ASBESTOS DW					11/23/2010		Logged
780	SVOC 8270 QSM					11/23/2010		NeedPrep
796	NITROCELLULOSE					11/23/2010		NeedPrep
817	ICP QSM				5/8/2011	11/23/2010		NeedPrep
		Aluminum						
		Antimony						
		Arsenic						
		Barium						
		Beryllium						
		Cadmium						
		Calcium						
		Chromium						
		Cobalt						
		Copper						
		Iron						
		Lead						
		Magnesium						
		Manganese						
		Nickel						
		Selenium						
		Silver						
		Thallium						
		Vanadium						
		Zinc						
827	ICP K QSM				5/8/2011	11/23/2010		NeedPrep
828	ICP NA QSM				5/8/2011	11/23/2010		NeedPrep
833	MERCURY QSM				12/7/2010	11/23/2010		NeedPrep
855	PCB QSM					11/23/2010		NeedPrep

Folder #: 82424 **Company:** *USACE - LOUISVILLE* **Project:** RAVENNA

SAMPLE #: 870194 **DESCR:** DLASS-022-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/9/2010 **Time:** 1220 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
859	PESTICIDES QSM					11/23/2010		NeedPrep
891	EXPLOSIVES NITROGUAN					11/23/2010		NeedPrep
906	8330B EXPLOSIVES QSM					11/23/2010		NeedPrep
946	HOMOGEN/M.I. PREP					11/23/2010		Logged
951	HEX CHROME QSM SOIL					11/23/2010		NeedPrep

SAMPLE #: 870195 **DESCR:** DLASS-022-0003-SO **MATRIX:** SOIL **SAMPLED:** 11/9/2010 **Time:** 1230 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				11/23/2010	11/23/2010		Logged
214	SUB ASBESTOS DW					11/23/2010		Logged
780	SVOC 8270 QSM					11/23/2010		NeedPrep
796	NITROCELLULOSE					11/23/2010		NeedPrep
817	ICP QSM				5/8/2011	11/23/2010		NeedPrep
		Aluminum						
		Antimony						
		Arsenic						
		Barium						
		Beryllium						
		Cadmium						
		Calcium						
		Chromium						
		Cobalt						
		Copper						
		Iron						
		Lead						
		Magnesium						
		Manganese						
		Nickel						

Folder #: 82424 **Company:** *USACE - LOUISVILLE* **Project:** RAVENNA

SAMPLE #: 870195 **DESCR:** DLASS-022-0003-SO **MATRIX:** SOIL **SAMPLED:** 11/9/2010 **Time:** 1230 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
		Selenium						
		Silver						
		Thallium						
		Vanadium						
		Zinc						
827	ICP K QSM				5/8/2011	11/23/2010		NeedPrep
828	ICP NA QSM				5/8/2011	11/23/2010		NeedPrep
833	MERCURY QSM				12/7/2010	11/23/2010		NeedPrep
855	PCB QSM					11/23/2010		NeedPrep
859	PESTICIDES QSM					11/23/2010		NeedPrep
891	EXPLOSIVES NITROGUAN					11/23/2010		NeedPrep
906	8330B EXPLOSIVES QSM					11/23/2010		NeedPrep
946	HOMOGEN/M.I. PREP					11/23/2010		Logged
951	HEX CHROME QSM SOIL					11/23/2010		NeedPrep

SAMPLE #: 870196 **DESCR:** DLASS-008-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/9/2010 **Time:** 1100 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				11/23/2010	11/23/2010		Logged
214	SUB ASBESTOS DW					11/23/2010		Logged
817	ICP QSM				5/8/2011	11/23/2010		NeedPrep
		Aluminum						
		Antimony						
		Arsenic						
		Barium						
		Beryllium						
		Cadmium						
		Calcium						
		Chromium						

SAMPLE #: 870196 **DESCR:** DLASS-008-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/9/2010 **Time:** 1100 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
		Cobalt						
		Copper						
		Iron						
		Lead						
		Magnesium						
		Manganese						
		Nickel						
		Selenium						
		Silver						
		Thallium						
		Vanadium						
		Zinc						
827	ICP K QSM				5/8/2011	11/23/2010		NeedPrep
828	ICP NA QSM				5/8/2011	11/23/2010		NeedPrep
833	MERCURY QSM				12/7/2010	11/23/2010		NeedPrep
946	HOMOGEN/M.I. PREP					11/23/2010		Logged
951	HEX CHROME QSM SOIL					11/23/2010		NeedPrep

SAMPLE #: 870197 **DESCR:** DLASS-021-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/9/2010 **Time:** 1030 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				11/23/2010	11/23/2010		Logged
214	SUB ASBESTOS DW					11/23/2010		Logged
817	ICP QSM				5/8/2011	11/23/2010		NeedPrep
		Aluminum						
		Antimony						
		Arsenic						
		Barium						
		Beryllium						

SAMPLE #: 870197 **DESCR:** DLASS-021-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/9/2010 **Time:** 1030 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
		Cadmium						
		Calcium						
		Chromium						
		Cobalt						
		Copper						
		Iron						
		Lead						
		Magnesium						
		Manganese						
		Nickel						
		Selenium						
		Silver						
		Thallium						
		Vanadium						
		Zinc						
827	ICP K QSM				5/8/2011	11/23/2010		NeedPrep
828	ICP NA QSM				5/8/2011	11/23/2010		NeedPrep
833	MERCURY QSM				12/7/2010	11/23/2010		NeedPrep
946	HOMOGEN/M.I. PREP					11/23/2010		Logged
951	HEX CHROME QSM SOIL					11/23/2010		NeedPrep

SAMPLE #: 870200 **DESCR:** DLASS-005-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/9/2010 **Time:** 0920 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				11/23/2010	11/23/2010		Logged
214	SUB ASBESTOS DW					11/23/2010		Logged
817	ICP QSM				5/8/2011	11/23/2010		NeedPrep
		Aluminum						
		Antimony						

Folder #: 82424 **Company:** *USACE - LOUISVILLE* **Project:** RAVENNA

SAMPLE #: 870200 **DESCR:** DLASS-005-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/9/2010 **Time:** 0920 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
		Arsenic						
		Barium						
		Beryllium						
		Cadmium						
		Calcium						
		Chromium						
		Cobalt						
		Copper						
		Iron						
		Lead						
		Magnesium						
		Manganese						
		Nickel						
		Selenium						
		Silver						
		Thallium						
		Vanadium						
		Zinc						
827	ICP K QSM				5/8/2011	11/23/2010		NeedPrep
828	ICP NA QSM				5/8/2011	11/23/2010		NeedPrep
833	MERCURY QSM				12/7/2010	11/23/2010		NeedPrep
946	HOMOGEN/M.I. PREP					11/23/2010		Logged
951	HEX CHROME QSM SOIL					11/23/2010		NeedPrep

SAMPLE #: 870201 **DESCR:** DLASS-014-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/9/2010 **Time:** 1525 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT			***DESIGNATED MATRIX SPIKE***	11/23/2010	11/23/2010		Logged
214	SUB ASBESTOS DW			***DESIGNATED MATRIX SPIKE***		11/23/2010		Logged

Folder #: 82424 **Company:** *USACE - LOUISVILLE* **Project:** RAVENNA

SAMPLE #: 870201 **DESCR:** DLASS-014-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/9/2010 **Time:** 1525 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
780	SVOC 8270 QSM			***DESIGNATED MATRIX SPIKE***		11/23/2010		NeedPrep
796	NITROCELLULOSE			***DESIGNATED MATRIX SPIKE***		11/23/2010		NeedPrep
817	ICP QSM			***DESIGNATED MATRIX SPIKE***	5/8/2011	11/23/2010		NeedPrep
		Aluminum						
		Antimony						
		Arsenic						
		Barium						
		Beryllium						
		Cadmium						
		Calcium						
		Chromium						
		Cobalt						
		Copper						
		Iron						
		Lead						
		Magnesium						
		Manganese						
		Nickel						
		Selenium						
		Silver						
		Thallium						
		Vanadium						
		Zinc						
827	ICP K QSM			***DESIGNATED MATRIX SPIKE***	5/8/2011	11/23/2010		NeedPrep
828	ICP NA QSM			***DESIGNATED MATRIX SPIKE***	5/8/2011	11/23/2010		NeedPrep
833	MERCURY QSM			***DESIGNATED MATRIX SPIKE***	12/7/2010	11/23/2010		NeedPrep
855	PCB QSM			***DESIGNATED MATRIX SPIKE***		11/23/2010		NeedPrep
859	PESTICIDES QSM			***DESIGNATED MATRIX SPIKE***		11/23/2010		NeedPrep
891	EXPLOSIVES NITROGUAN			***DESIGNATED MATRIX SPIKE***		11/23/2010		NeedPrep

Folder #: 82424 **Company:** *USACE - LOUISVILLE* **Project:** RAVENNA

SAMPLE #: 870201 **DESCR:** DLASS-014-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/9/2010 **Time:** 1525 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
906	8330B EXPLOSIVES QSM			***DESIGNATED MATRIX SPIKE***		11/23/2010		NeedPrep
946	HOMOGEN/M.I. PREP			***DESIGNATED MATRIX SPIKE***		11/23/2010		Logged
951	HEX CHROME QSM SOIL			***DESIGNATED MATRIX SPIKE***		11/23/2010		NeedPrep

SAMPLE #: 870202 **DESCR:** DLASS-011-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/9/2010 **Time:** 1500 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				11/23/2010	11/23/2010		Logged
214	SUB ASBESTOS DW					11/23/2010		Logged
817	ICP QSM				5/8/2011	11/23/2010		NeedPrep
		Aluminum						
		Antimony						
		Arsenic						
		Barium						
		Beryllium						
		Cadmium						
		Calcium						
		Chromium						
		Cobalt						
		Copper						
		Iron						
		Lead						
		Magnesium						
		Manganese						
		Nickel						
		Selenium						
		Silver						
		Thallium						
		Vanadium						

Folder #: 82424 **Company:** *USACE - LOUISVILLE* **Project:** RAVENNA

SAMPLE #: 870202 **DESCR:** DLASS-011-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/9/2010 **Time:** 1500 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
		Zinc						
827	ICP K QSM				5/8/2011	11/23/2010		NeedPrep
828	ICP NA QSM				5/8/2011	11/23/2010		NeedPrep
833	MERCURY QSM				12/7/2010	11/23/2010		NeedPrep
946	HOMOGEN/M.I. PREP					11/23/2010		Logged
951	HEX CHROME QSM SOIL					11/23/2010		NeedPrep

SAMPLE #: 870203 **DESCR:** DLASS-014-0003-SO **MATRIX:** SOIL **SAMPLED:** 11/9/2010 **Time:** 1535 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				11/23/2010	11/23/2010		Logged
214	SUB ASBESTOS DW					11/23/2010		Logged
780	SVOC 8270 QSM					11/23/2010		NeedPrep
796	NITROCELLULOSE					11/23/2010		NeedPrep
817	ICP QSM				5/8/2011	11/23/2010		NeedPrep
		Aluminum						
		Antimony						
		Arsenic						
		Barium						
		Beryllium						
		Cadmium						
		Calcium						
		Chromium						
		Cobalt						
		Copper						
		Iron						
		Lead						
		Magnesium						
		Manganese						

Folder #: 82424 **Company:** *USACE - LOUISVILLE* **Project:** RAVENNA

SAMPLE #: 870203 **DESCR:** DLASS-014-0003-SO **MATRIX:** SOIL **SAMPLED:** 11/9/2010 **Time:** 1535 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
		Nickel						
		Selenium						
		Silver						
		Thallium						
		Vanadium						
		Zinc						
827	ICP K QSM				5/8/2011	11/23/2010		NeedPrep
828	ICP NA QSM				5/8/2011	11/23/2010		NeedPrep
833	MERCURY QSM				12/7/2010	11/23/2010		NeedPrep
855	PCB QSM					11/23/2010		NeedPrep
859	PESTICIDES QSM					11/23/2010		NeedPrep
891	EXPLOSIVES NITROGUAN					11/23/2010		NeedPrep
906	8330B EXPLOSIVES QSM					11/23/2010		NeedPrep
946	HOMOGEN/M.I. PREP					11/23/2010		Logged
951	HEX CHROME QSM SOIL					11/23/2010		NeedPrep

SAMPLE #: 870204 **DESCR:** DLASS-030-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/10/2010 **Time:** 1316 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				11/24/2010	11/23/2010		Logged
214	SUB ASBESTOS DW					11/23/2010		Logged
817	ICP QSM				5/9/2011	11/23/2010		NeedPrep
		Aluminum						
		Antimony						
		Arsenic						
		Barium						
		Beryllium						
		Cadmium						
		Calcium						

SAMPLE #: 870204 **DESCR:** DLASS-030-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/10/2010 **Time:** 1316 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
		Chromium						
		Cobalt						
		Copper						
		Iron						
		Lead						
		Magnesium						
		Manganese						
		Nickel						
		Selenium						
		Silver						
		Thallium						
		Vanadium						
		Zinc						
827	ICP K QSM				5/9/2011	11/23/2010		NeedPrep
828	ICP NA QSM				5/9/2011	11/23/2010		NeedPrep
833	MERCURY QSM				12/8/2010	11/23/2010		NeedPrep
946	HOMOGEN/M.I. PREP					11/23/2010		Logged
951	HEX CHROME QSM SOIL					11/23/2010		NeedPrep

SAMPLE #: 870207 **DESCR:** DLASS-026-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/9/2010 **Time:** 1600 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				11/23/2010	11/23/2010		Logged
214	SUB ASBESTOS DW					11/23/2010		Logged
817	ICP QSM				5/8/2011	11/23/2010		NeedPrep
		Aluminum						
		Antimony						
		Arsenic						
		Barium						

SAMPLE #: 870207 **DESCR:** DLASS-026-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/9/2010 **Time:** 1600 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
		Beryllium						
		Cadmium						
		Calcium						
		Chromium						
		Cobalt						
		Copper						
		Iron						
		Lead						
		Magnesium						
		Manganese						
		Nickel						
		Selenium						
		Silver						
		Thallium						
		Vanadium						
		Zinc						
827	ICP K QSM				5/8/2011	11/23/2010		NeedPrep
828	ICP NA QSM				5/8/2011	11/23/2010		NeedPrep
833	MERCURY QSM				12/7/2010	11/23/2010		NeedPrep
946	HOMOGEN/M.I. PREP					11/23/2010		Logged
951	HEX CHROME QSM SOIL					11/23/2010		NeedPrep

SAMPLE #: 870208 **DESCR:** DLASS-029-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/9/2010 **Time:** 1620 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				11/23/2010	11/23/2010		Logged
214	SUB ASBESTOS DW					11/23/2010		Logged
817	ICP QSM				5/8/2011	11/23/2010		NeedPrep
		Aluminum						

SAMPLE #: 870208 **DESCR:** DLASS-029-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/9/2010 **Time:** 1620 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
		Antimony						
		Arsenic						
		Barium						
		Beryllium						
		Cadmium						
		Calcium						
		Chromium						
		Cobalt						
		Copper						
		Iron						
		Lead						
		Magnesium						
		Manganese						
		Nickel						
		Selenium						
		Silver						
		Thallium						
		Vanadium						
		Zinc						
827	ICP K QSM				5/8/2011	11/23/2010		NeedPrep
828	ICP NA QSM				5/8/2011	11/23/2010		NeedPrep
833	MERCURY QSM				12/7/2010	11/23/2010		NeedPrep
946	HOMOGEN/M.I. PREP					11/23/2010		Logged
951	HEX CHROME QSM SOIL					11/23/2010		NeedPrep

SAMPLE #: 870209 **DESCR:** DLASS-007-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/9/2010 **Time:** 0900 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				11/23/2010	11/23/2010		Logged

Folder #: 82424 **Company:** *USACE - LOUISVILLE* **Project:** RAVENNA

SAMPLE #: 870209 **DESCR:** DLASS-007-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/9/2010 **Time:** 0900 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
214	SUB ASBESTOS DW					11/23/2010		Logged
817	ICP QSM				5/8/2011	11/23/2010		NeedPrep
		Aluminum						
		Antimony						
		Arsenic						
		Barium						
		Beryllium						
		Cadmium						
		Calcium						
		Chromium						
		Cobalt						
		Copper						
		Iron						
		Lead						
		Magnesium						
		Manganese						
		Nickel						
		Selenium						
		Silver						
		Thallium						
		Vanadium						
		Zinc						
827	ICP K QSM				5/8/2011	11/23/2010		NeedPrep
828	ICP NA QSM				5/8/2011	11/23/2010		NeedPrep
833	MERCURY QSM				12/7/2010	11/23/2010		NeedPrep
946	HOMOGEN/M.I. PREP					11/23/2010		Logged
951	HEX CHROME QSM SOIL					11/23/2010		NeedPrep

Folder #: 82424 **Company:** *USACE - LOUISVILLE* **Project:** RAVENNA

SAMPLE #: 870210 **DESCR:** DLASS-020-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/9/2010 **Time:** 1000 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				11/23/2010	11/23/2010		Logged
214	SUB ASBESTOS DW					11/23/2010		Logged
817	ICP QSM				5/8/2011	11/23/2010		NeedPrep
		Aluminum						
		Antimony						
		Arsenic						
		Barium						
		Beryllium						
		Cadmium						
		Calcium						
		Chromium						
		Cobalt						
		Copper						
		Iron						
		Lead						
		Magnesium						
		Manganese						
		Nickel						
		Selenium						
		Silver						
		Thallium						
		Vanadium						
		Zinc						
827	ICP K QSM				5/8/2011	11/23/2010		NeedPrep
828	ICP NA QSM				5/8/2011	11/23/2010		NeedPrep
833	MERCURY QSM				12/7/2010	11/23/2010		NeedPrep
946	HOMOGEN/M.I. PREP					11/23/2010		Logged
951	HEX CHROME QSM SOIL					11/23/2010		NeedPrep

Folder #: 82424 **Company:** *USACE - LOUISVILLE* **Project:** RAVENNA

SAMPLE #: 870211 **DESCR:** DLASS-028-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/9/2010 **Time:** 1549 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				11/23/2010	11/23/2010		Logged
214	SUB ASBESTOS DW					11/23/2010		Logged
817	ICP QSM				5/8/2011	11/23/2010		NeedPrep
		Aluminum						
		Antimony						
		Arsenic						
		Barium						
		Beryllium						
		Cadmium						
		Calcium						
		Chromium						
		Cobalt						
		Copper						
		Iron						
		Lead						
		Magnesium						
		Manganese						
		Nickel						
		Selenium						
		Silver						
		Thallium						
		Vanadium						
		Zinc						
827	ICP K QSM				5/8/2011	11/23/2010		NeedPrep
828	ICP NA QSM				5/8/2011	11/23/2010		NeedPrep
833	MERCURY QSM				12/7/2010	11/23/2010		NeedPrep
946	HOMOGEN/M.I. PREP					11/23/2010		Logged
951	HEX CHROME QSM SOIL					11/23/2010		NeedPrep

Folder #: 82424 **Company:** *USACE - LOUISVILLE* **Project:** RAVENNA

SAMPLE #: 870212 **DESCR:** DLASS-002-0003-SO **MATRIX:** SOIL **SAMPLED:** 11/10/2010 **Time:** 1025 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				11/24/2010	11/23/2010		Logged
214	SUB ASBESTOS DW					11/23/2010		Logged
780	SVOC 8270 QSM					11/23/2010		NeedPrep
796	NITROCELLULOSE					11/23/2010		NeedPrep
817	ICP QSM				5/9/2011	11/23/2010		NeedPrep
		Aluminum						
		Antimony						
		Arsenic						
		Barium						
		Beryllium						
		Cadmium						
		Calcium						
		Chromium						
		Cobalt						
		Copper						
		Iron						
		Lead						
		Magnesium						
		Manganese						
		Nickel						
		Selenium						
		Silver						
		Thallium						
		Vanadium						
		Zinc						
827	ICP K QSM				5/9/2011	11/23/2010		NeedPrep
828	ICP NA QSM				5/9/2011	11/23/2010		NeedPrep
833	MERCURY QSM				12/8/2010	11/23/2010		NeedPrep
855	PCB QSM					11/23/2010		NeedPrep

Folder #: 82424 **Company:** *USACE - LOUISVILLE* **Project:** RAVENNA

SAMPLE #: 870212 **DESCR:** DLASS-002-0003-SO **MATRIX:** SOIL **SAMPLED:** 11/10/2010 **Time:** 1025 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
859	PESTICIDES QSM					11/23/2010		NeedPrep
891	EXPLOSIVES NITROGUAN					11/23/2010		NeedPrep
906	8330B EXPLOSIVES QSM					11/23/2010		NeedPrep
946	HOMOGEN/M.I. PREP					11/23/2010		Logged
951	HEX CHROME QSM SOIL					11/23/2010		NeedPrep

SAMPLE #: 870213 **DESCR:** DLASS-012-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/9/2010 **Time:** 1630 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				11/23/2010	11/23/2010		Logged
214	SUB ASBESTOS DW					11/23/2010		Logged
817	ICP QSM				5/8/2011	11/23/2010		NeedPrep
		Aluminum						
		Antimony						
		Arsenic						
		Barium						
		Beryllium						
		Cadmium						
		Calcium						
		Chromium						
		Cobalt						
		Copper						
		Iron						
		Lead						
		Magnesium						
		Manganese						
		Nickel						
		Selenium						
		Silver						

Folder #: 82424 **Company:** *USACE - LOUISVILLE* **Project:** RAVENNA

SAMPLE #: 870213 **DESCR:** DLASS-012-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/9/2010 **Time:** 1630 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
		Thallium						
		Vanadium						
		Zinc						
827	ICP K QSM				5/8/2011	11/23/2010		NeedPrep
828	ICP NA QSM				5/8/2011	11/23/2010		NeedPrep
833	MERCURY QSM				12/7/2010	11/23/2010		NeedPrep
946	HOMOGEN/M.I. PREP					11/23/2010		Logged
951	HEX CHROME QSM SOIL					11/23/2010		NeedPrep

SAMPLE #: 870214 **DESCR:** DLASS-025-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/9/2010 **Time:** 1500 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				11/23/2010	11/23/2010		Logged
214	SUB ASBESTOS DW					11/23/2010		Logged
817	ICP QSM				5/8/2011	11/23/2010		NeedPrep
		Aluminum						
		Antimony						
		Arsenic						
		Barium						
		Beryllium						
		Cadmium						
		Calcium						
		Chromium						
		Cobalt						
		Copper						
		Iron						
		Lead						
		Magnesium						
		Manganese						

Folder #: 82424 **Company:** *USACE - LOUISVILLE* **Project:** RAVENNA

SAMPLE #: 870214 **DESCR:** DLASS-025-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/9/2010 **Time:** 1500 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
		Nickel						
		Selenium						
		Silver						
		Thallium						
		Vanadium						
		Zinc						
827	ICP K QSM				5/8/2011	11/23/2010		NeedPrep
828	ICP NA QSM				5/8/2011	11/23/2010		NeedPrep
833	MERCURY QSM				12/7/2010	11/23/2010		NeedPrep
946	HOMOGEN/M.I. PREP					11/23/2010		Logged
951	HEX CHROME QSM SOIL					11/23/2010		NeedPrep

SAMPLE #: 870215 **DESCR:** DLASS-006-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/9/2010 **Time:** 0900 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				11/23/2010	11/23/2010		Logged
214	SUB ASBESTOS DW					11/23/2010		Logged
817	ICP QSM				5/8/2011	11/23/2010		NeedPrep
		Aluminum						
		Antimony						
		Arsenic						
		Barium						
		Beryllium						
		Cadmium						
		Calcium						
		Chromium						
		Cobalt						
		Copper						
		Iron						

SAMPLE #: 870215 **DESCR:** DLASS-006-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/9/2010 **Time:** 0900 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
		Lead						
		Magnesium						
		Manganese						
		Nickel						
		Selenium						
		Silver						
		Thallium						
		Vanadium						
		Zinc						
827	ICP K QSM				5/8/2011	11/23/2010		NeedPrep
828	ICP NA QSM				5/8/2011	11/23/2010		NeedPrep
833	MERCURY QSM				12/7/2010	11/23/2010		NeedPrep
946	HOMOGEN/M.I. PREP					11/23/2010		Logged
951	HEX CHROME QSM SOIL					11/23/2010		NeedPrep

SAMPLE #: 870216 **DESCR:** DLASS-013-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/9/2010 **Time:** 1458 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				11/23/2010	11/23/2010		Logged
214	SUB ASBESTOS DW					11/23/2010		Logged
817	ICP QSM				5/8/2011	11/23/2010		NeedPrep
		Aluminum						
		Antimony						
		Arsenic						
		Barium						
		Beryllium						
		Cadmium						
		Calcium						
		Chromium						

SAMPLE #: 870216 **DESCR:** DLASS-013-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/9/2010 **Time:** 1458 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
		Cobalt						
		Copper						
		Iron						
		Lead						
		Magnesium						
		Manganese						
		Nickel						
		Selenium						
		Silver						
		Thallium						
		Vanadium						
		Zinc						
827	ICP K QSM				5/8/2011	11/23/2010		NeedPrep
828	ICP NA QSM				5/8/2011	11/23/2010		NeedPrep
833	MERCURY QSM				12/7/2010	11/23/2010		NeedPrep
946	HOMOGEN/M.I. PREP					11/23/2010		Logged
951	HEX CHROME QSM SOIL					11/23/2010		NeedPrep

Folder #: 82424 **Company:** *USACE - LOUISVILLE* **Project:** RAVENNA

Invoice Number: 82557 **Preliminary Invoice Estimate:** $ 10,837.50

Item	Matrix	Quantity	Price	Expedited TAT Surcharge	Total
8330B EXPLOSIVES QSM	SOIL	6	$ 73.50	0.00	$ 441.00
EXPLOSIVES NITROGUAN	SOIL	6	$ 89.25	0.00	$ 535.50
HEX CHROME QSM SOIL	SOIL	25	$ 52.50	0.00	$ 1312.50
HOMOGEN/M.I. PREP	SOIL	25	$ 57.75	0.00	$ 1443.75
ICP K QSM	SOIL	25	$ 5.00	0.00	$ 125.00
ICP NA QSM	SOIL	25	$ 5.00	0.00	$ 125.00
ICP QSM Aluminum	SOIL	25	$ 5.00	0.00	$ 125.00
ICP QSM Antimony	SOIL	25	$ 5.00	0.00	$ 125.00
ICP QSM Arsenic	SOIL	25	$ 5.00	0.00	$ 125.00
ICP QSM Barium	SOIL	25	$ 5.00	0.00	$ 125.00
ICP QSM Beryllium	SOIL	25	$ 5.00	0.00	$ 125.00
ICP QSM Cadmium	SOIL	25	$ 5.00	0.00	$ 125.00
ICP QSM Calcium	SOIL	25	$ 5.00	0.00	$ 125.00
ICP QSM Chromium	SOIL	25	$ 5.00	0.00	$ 125.00
ICP QSM Cobalt	SOIL	25	$ 5.00	0.00	$ 125.00
ICP QSM Copper	SOIL	25	$ 5.00	0.00	$ 125.00
ICP QSM Iron	SOIL	25	$ 5.00	0.00	$ 125.00
ICP QSM Lead	SOIL	25	$ 5.00	0.00	$ 125.00
ICP QSM Magnesium	SOIL	25	$ 5.00	0.00	$ 125.00
ICP QSM Manganese	SOIL	25	$ 5.00	0.00	$ 125.00
ICP QSM Nickel	SOIL	25	$ 5.00	0.00	$ 125.00
ICP QSM Selenium	SOIL	25	$ 5.00	0.00	$ 125.00
ICP QSM Silver	SOIL	25	$ 5.00	0.00	$ 125.00
ICP QSM Thallium	SOIL	25	$ 5.00	0.00	$ 125.00
ICP QSM Vanadium	SOIL	25	$ 5.00	0.00	$ 125.00
ICP QSM Zinc	SOIL	25	$ 5.00	0.00	$ 125.00
MERCURY QSM	SOIL	25	$ 26.25	0.00	$ 656.25
NITROCELLULOSE	SOIL	6	$ 77.00	0.00	$ 462.00
PCB QSM	SOIL	6	$ 73.50	0.00	$ 441.00

PESTICIDES QSM	SOIL	6	$ 73.50	0.00	$ 441.00
SOLIDS,PERCENT	SOIL	31	$ 0.00	0.00	$ 0.00
SUB ASBESTOS DW	SOIL	25	$ 25.00	0.00	$ 625.00
SVOC 8270 QSM	SOIL	6	$ 220.00	0.00	$ 1320.00
VOC 8260 QSM	SOIL	6	$ 68.25	0.00	$ 409.50
Temporary Fuel Surcharge on lab supplies and services (if applicable):					$ 0.00

Bottle Information

Container	# Containers	Tests
FOR LABEL ONLY	**50**	SOIL PREP/MIX
MEOH TARED	**12**	VOC
SOLIDS	**31**	%SOL

CT LABORATORIES
delivering more than data from your environmental analyses

Sample Condition Report

Folder #: 82424
Client: USACE - LOUISVILLE

Print Date / Time: 11/11/2010 11:54
Received Date / Time / By: 11/11/2010 0950 JLS

Project Name: RAVENNA
Project #: W912QR-10-D-0024

Log-In Date / Time / By: 11/11/2010 1140 JLS
PM: PML

Coolers: 3711,3813,3612,3376,
Custody Seals Present : **Y**

Temperature: <2.6 C On Ice: **Y**
COC Present:? **Y** Complete? **Y**

Seal Intact? **Y**
Ship Method: FEDEX EXPRESS
Adequate Packaging: **Y**

Numbers: DATED AND SIGNED
Tracking Number: 870084100817,814881380960,870084100
Temp Blank Enclosed? **Y**

Notes: ADDITIONAL TRACKING #'S OF 814881380959, 870084100791, 870084100806
2 ADDITIONAL COOLERS- 1 GPL AND 1 KEMRON
SAMPLES REC'D IN GOOD CONDITION ON ICE
CUSTODY SEALS INTACT, ALL DATED 11/10/10 AND SIGNED BY DEREK KINDER

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
870182 DLASS-023-0001-SO					
	SOLIDS	1		%SOL	
	Total # of Containers of Type (*SOLIDS*) = 1				
870182 DLASS-023-0001-SO					
	MEOH TARED	1		VOC	
	MEOH TARED	1		VOC	
	Total # of Containers of Type (*MEOH TARED*) = 2				

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
870183 DLASS-033-0001-SO					
	SOLIDS	1		%SOL	
	Total # of Containers of Type (*SOLIDS*) = 1				
870183 DLASS-033-0001-SO					
	MEOH TARED	1		VOC	
	MEOH TARED	1		VOC	
	Total # of Containers of Type (*MEOH TARED*) = 2				

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
870184 DLASS-003-0001-SO					
	SOLIDS	1		%SOL	
	Total # of Containers of Type (*SOLIDS*) = 1				
870184 DLASS-003-0001-SO					
	MEOH TARED	1		VOC	
	MEOH TARED	1		VOC	
	Total # of Containers of Type (*MEOH TARED*) = 2				

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
870185 DLASS-003-0002-SO					
	SOLIDS	1		%SOL	
	Total # of Containers of Type (*SOLIDS*) = 1				
870185 DLASS-003-0002-SO					
	MEOH TARED	1		VOC	
	MEOH TARED	1		VOC	
	Total # of Containers of Type (*MEOH TARED*) = 2				
870186 DLASS-043-0001-SO					
	SOLIDS	1		%SOL	
	Total # of Containers of Type (*SOLIDS*) = 1				
870186 DLASS-043-0001-SO					
	MEOH TARED	1		VOC	
	MEOH TARED	1		VOC	
	Total # of Containers of Type (*MEOH TARED*) = 2				
870187 DLASS-015-0001-SO					
	SOLIDS	1		%SOL	
	Total # of Containers of Type (*SOLIDS*) = 1				
870187 DLASS-015-0001-SO					
	MEOH TARED	1		VOC	
	MEOH TARED	1		VOC	
	Total # of Containers of Type (*MEOH TARED*) = 2				
870188 DLASS-027-0001-SO					
	SOLIDS	1		%SOL	
	Total # of Containers of Type (*SOLIDS*) = 1				
870188 DLASS-027-0001-SO					
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	Total # of Containers of Type (*FOR LABEL ONLY*) = 2				
870189 DLASS-002-0001-SO					
	SOLIDS	1		%SOL	
	Total # of Containers of Type (*SOLIDS*) = 1				
870189 DLASS-002-0001-SO					
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	Total # of Containers of Type (*FOR LABEL ONLY*) = 2				
870190 DLASS-018-0001-SO					
	SOLIDS	1		%SOL	
	Total # of Containers of Type (*SOLIDS*) = 1				
870190 DLASS-018-0001-SO					
	FOR LABEL ONLY	1		SOIL PREP/MIX	

	FOR LABEL ONLY	1		SOIL PREP/MIX	

Total # of Containers of Type (*FOR LABEL ONLY*) = 2

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
870191 DLASS-001-0001-SO					
	SOLIDS	1		%SOL	

Total # of Containers of Type (*SOLIDS*) = 1

870191 DLASS-001-0001-SO					
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	FOR LABEL ONLY	1		SOIL PREP/MIX	

Total # of Containers of Type (*FOR LABEL ONLY*) = 2

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
870192 DLASS-016-0001-SO					
	SOLIDS	1		%SOL	

Total # of Containers of Type (*SOLIDS*) = 1

870192 DLASS-016-0001-SO					
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	FOR LABEL ONLY	1		SOIL PREP/MIX	

Total # of Containers of Type (*FOR LABEL ONLY*) = 2

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
870193 DLASS-017-0001-SO					
	SOLIDS	1		%SOL	

Total # of Containers of Type (*SOLIDS*) = 1

870193 DLASS-017-0001-SO					
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	FOR LABEL ONLY	1		SOIL PREP/MIX	

Total # of Containers of Type (*FOR LABEL ONLY*) = 2

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
870194 DLASS-022-0001-SO					
	SOLIDS	1		%SOL	

Total # of Containers of Type (*SOLIDS*) = 1

870194 DLASS-022-0001-SO					
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	FOR LABEL ONLY	1		SOIL PREP/MIX	

Total # of Containers of Type (*FOR LABEL ONLY*) = 2

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
870195 DLASS-022-0003-SO					
	SOLIDS	1		%SOL	

Total # of Containers of Type (*SOLIDS*) = 1

870195 DLASS-022-0003-SO					
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	FOR LABEL ONLY	1		SOIL PREP/MIX	

Total # of Containers of Type (*FOR LABEL ONLY*) = 2

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?

870196 DLASS-008-0001-SO

SOLIDS	1		%SOL

Total # of Containers of Type (*SOLIDS*) = 1

870196 DLASS-008-0001-SO

FOR LABEL ONLY	1		SOIL PREP/MIX
FOR LABEL ONLY	1		SOIL PREP/MIX

Total # of Containers of Type (*FOR LABEL ONLY*) = 2

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
870197 DLASS-021-0001-SO					
	SOLIDS	1		%SOL	

Total # of Containers of Type (*SOLIDS*) = 1

870197 DLASS-021-0001-SO

FOR LABEL ONLY	1		SOIL PREP/MIX
FOR LABEL ONLY	1		SOIL PREP/MIX

Total # of Containers of Type (*FOR LABEL ONLY*) = 2

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
870200 DLASS-005-0001-SO					
	SOLIDS	1		%SOL	

Total # of Containers of Type (*SOLIDS*) = 1

870200 DLASS-005-0001-SO

FOR LABEL ONLY	1		SOIL PREP/MIX
FOR LABEL ONLY	1		SOIL PREP/MIX

Total # of Containers of Type (*FOR LABEL ONLY*) = 2

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
870201 DLASS-014-0001-SO					
	SOLIDS	1		%SOL	

Total # of Containers of Type (*SOLIDS*) = 1

870201 DLASS-014-0001-SO

FOR LABEL ONLY	1		SOIL PREP/MIX
FOR LABEL ONLY	1		SOIL PREP/MIX

Total # of Containers of Type (*FOR LABEL ONLY*) = 2

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
870202 DLASS-011-0001-SO					
	SOLIDS	1		%SOL	

Total # of Containers of Type (*SOLIDS*) = 1

870202 DLASS-011-0001-SO

FOR LABEL ONLY	1		SOIL PREP/MIX
FOR LABEL ONLY	1		SOIL PREP/MIX

Total # of Containers of Type (*FOR LABEL ONLY*) = 2

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
870203 DLASS-014-0003-SO					
	SOLIDS	1		%SOL	

Total # of Containers of Type (*SOLIDS*) = 1

870203 DLASS-014-0003-SO

FOR LABEL ONLY	1		SOIL PREP/MIX

82424

	FOR LABEL ONLY	1		SOIL PREP/MIX	

Total # of Containers of Type (*FOR LABEL ONLY*) = 2

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
870204 DLASS-030-0001-SO					
	SOLIDS	1		%SOL	

Total # of Containers of Type (*SOLIDS*) = 1

870204 DLASS-030-0001-SO					
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	FOR LABEL ONLY	1		SOIL PREP/MIX	

Total # of Containers of Type (*FOR LABEL ONLY*) = 2

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
870207 DLASS-026-0001-SO					
	SOLIDS	1		%SOL	

Total # of Containers of Type (*SOLIDS*) = 1

870207 DLASS-026-0001-SO					
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	FOR LABEL ONLY	1		SOIL PREP/MIX	

Total # of Containers of Type (*FOR LABEL ONLY*) = 2

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
870208 DLASS-029-0001-SO					
	SOLIDS	1		%SOL	

Total # of Containers of Type (*SOLIDS*) = 1

870208 DLASS-029-0001-SO					
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	FOR LABEL ONLY	1		SOIL PREP/MIX	

Total # of Containers of Type (*FOR LABEL ONLY*) = 2

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
870209 DLASS-007-0001-SO					
	SOLIDS	1		%SOL	

Total # of Containers of Type (*SOLIDS*) = 1

870209 DLASS-007-0001-SO					
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	FOR LABEL ONLY	1		SOIL PREP/MIX	

Total # of Containers of Type (*FOR LABEL ONLY*) = 2

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
870210 DLASS-020-0001-SO					
	SOLIDS	1		%SOL	

Total # of Containers of Type (*SOLIDS*) = 1

870210 DLASS-020-0001-SO					
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	FOR LABEL ONLY	1		SOIL PREP/MIX	

Total # of Containers of Type (*FOR LABEL ONLY*) = 2

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?

870211 DLASS-028-0001-SO

SOLIDS	1	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

870211 DLASS-028-0001-SO

FOR LABEL ONLY	1	SOIL PREP/MIX
FOR LABEL ONLY	1	SOIL PREP/MIX

Total # of Containers of Type (*FOR LABEL ONLY*) = 2

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
870212 DLASS-002-0003-SO					
	SOLIDS	1		%SOL	

Total # of Containers of Type (*SOLIDS*) = 1

870212 DLASS-002-0003-SO

FOR LABEL ONLY	1	SOIL PREP/MIX
FOR LABEL ONLY	1	SOIL PREP/MIX

Total # of Containers of Type (*FOR LABEL ONLY*) = 2

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
870213 DLASS-012-0001-SO					
	SOLIDS	1		%SOL	

Total # of Containers of Type (*SOLIDS*) = 1

870213 DLASS-012-0001-SO

FOR LABEL ONLY	1	SOIL PREP/MIX
FOR LABEL ONLY	1	SOIL PREP/MIX

Total # of Containers of Type (*FOR LABEL ONLY*) = 2

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
870214 DLASS-025-0001-SO					
	SOLIDS	1		%SOL	

Total # of Containers of Type (*SOLIDS*) = 1

870214 DLASS-025-0001-SO

FOR LABEL ONLY	1	SOIL PREP/MIX
FOR LABEL ONLY	1	SOIL PREP/MIX

Total # of Containers of Type (*FOR LABEL ONLY*) = 2

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
870215 DLASS-006-0001-SO					
	SOLIDS	1		%SOL	

Total # of Containers of Type (*SOLIDS*) = 1

870215 DLASS-006-0001-SO

FOR LABEL ONLY	1	SOIL PREP/MIX
FOR LABEL ONLY	1	SOIL PREP/MIX

Total # of Containers of Type (*FOR LABEL ONLY*) = 2

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
870216 DLASS-013-0001-SO					
	SOLIDS	1		%SOL	

Total # of Containers of Type (*SOLIDS*) = 1

870216 DLASS-013-0001-SO

FOR LABEL ONLY	1	SOIL PREP/MIX

82424

FOR LABEL ONLY 1 SOIL PREP/MIX

Total # of Containers of Type (*FOR LABEL ONLY*) = 2

.....

Condition Code Condition Description

1 Sample Received OK

82424

FedEx USA Airbill

FedEx Tracking Number 8148 8138 0960

0200

Recipient's Copy

1 From

Date 11/4

Sender's Name [redacted] Phone [redacted]

Company US Army Corps Of Engineers

Address 8451 St Rt 5 Dept./Floor/Suite/Room

City Ravenna State OH ZIP 44266

2 Your Internal Billing Reference

3 To

Recipient's Name [illegible] Phone [illegible]

Company CT Laboratories

Address 1230 Lange Ct

We cannot deliver to P.O. boxes or P.O. ZIP codes. Dept./Floor/Suite/Room

To "HOLD" at FedEx location, print FedEx address here.

City [illegible] State KY ZIP 3[illegible]

8148 8138 0960

4a Express Package Service — Packages up to 150 lbs. Delivery commitment may be later in some areas.

- [ ] FedEx Priority Overnight — Next business morning
- [x] FedEx Standard Overnight — Next business afternoon
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day* — Second business day
- [ ] FedEx Express Saver* — Third business day

* FedEx Letter Rate not available. Minimum charge: One-pound rate

4b Express Freight Service — Packages over 150 lbs. Delivery commitment may be later in some areas.

- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [ ] FedEx 3Day Freight — Third business day

* Call for Confirmation: ____

5 Packaging — * Declared value limit $500

- [ ] FedEx Letter*
- [ ] FedEx Pak*
- [x] Other Pkg. — Includes FedEx Box, FedEx Tube, and customer pkg.

6 Special Handling

- [ ] Saturday Delivery — Available for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] Sunday Delivery — Available for FedEx Priority Overnight to select ZIP codes
- [ ] HOLD Weekday at FedEx Location — Not available with FedEx First Overnight
- [ ] HOLD Saturday at FedEx Location — Available for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked.

- [x] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous Goods cannot be shipped in FedEx packaging. [ ] Cargo Aircraft Only

7 Payment Bill to: Enter FedEx Acct. No. or Credit Card No. below. [ ] Obtain Recip. Acct. No.

- [x] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

Total Packages	Total Weight	Total Declared Value†	Total Charges
1	66	$ 0 .00	Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See back for details.

8 Release Signature — Sign to authorize delivery without obtaining signature.

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

Questions? Call 1-800-Go-FedEx® (800-463-3339)
Visit our Web site at www.fedex.com

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360

11/11/10 0945 MLD
on ice 2.4°C
cooler - 3813

CUSTODY SEAL

Person Collecting Sample Derek Kinzer (Signature)

Date Collected 11/10/10

Samples to RVAAP

Time Collected

Cooler
3711
11/11/10 0950
jfd
1.8°

CUSTODY SEAL

Person Collecting Sample Derek Kinder (Signature)

Sample No. KVAAP

Date Collected 11/10/10

Time Collected

Recipient's Copy

FedEx Express US Airbill

FedEx Tracking Number 8700 8410 0817

1 From

Date

Sender's Name Phone

Company

Address Dept/Floor/Suite/Room

City State ZIP

2 Your Internal Billing Reference

3 To

Recipient's Name Phone

Company

HOLD Weekday Print FedEx location address below. NOT available for FedEx First Overnight.

HOLD Saturday Print FedEx location address below. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Address Dept/Floor/Suite/Room

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address

Print FedEx location address here if a HOLD option is selected.

City State ZIP

8700 8410 0817

4a Express Package Service * To most locations.

Packages up to 150 lbs.

- FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available. ✓
- FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.
- FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

4b Express Freight Service ** To most locations.

Packages over 150 lbs.

- FedEx 1Day Freight — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx 1Day Freight Booking No.
- FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

- FedEx Envelope*
- FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.
- FedEx Box
- FedEx Tube
- Other ✓

6 Special Handling and Delivery Signature Options

- SATURDAY Delivery — NOT available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
- No Signature Required — Package may be left without obtaining a signature for delivery.
- Direct Signature — Someone at recipient's address may sign for delivery. Fee applies.
- Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.

Does this shipment contain dangerous goods? One box must be checked.

- No ✓
- Yes — As per attached Shipper's Declaration.
- Yes — Shipper's Declaration not required.
- Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

- Cargo Aircraft Only

7 Payment Bill to: Enter FedEx Acct. No. or Credit Card No. below. Acct. No.

- Sender — Acct. No. in Section 1 will be billed. ✓
- Recipient
- Third Party
- Credit Card
- Cash/Check

Total Packages 1 Total Weight 30 lbs. Total Declared Value† $ 0.00 Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

554

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fedex.com 1.800.GoFedEx 1.800.463.3339

Sample No. Ramona MP

Collected

10 0828

Phone

Dept./Floor/Suite/Room

ZIP

Phone

HOLD Weekday at FedEx location address below. Print FedEx location address here. Not available for FedEx First Overnight

HOLD Saturday
Print FedEx location address below. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Dept./Floor/Suite/Room

ZIP

Page 1 of 1

11/11/10
0950
jfs
Kenron Cooler
1.8°

Recipient's Copy

4a Express Package Service * To most locations. *Packages up to 150 lbs.*

- FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- ☑ FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.
- FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.
- FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

4b Express Freight Service ** To most locations. *Packages over 150 lbs.*

- FedEx 1Day Freight — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected. FedEx 1Day Freight Booking No.
- FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

8701974 8701975 8701976 8701977

5 Packaging * Declared value limit $500.

- FedEx Envelope*
- FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.
- ☑ FedEx Box
- FedEx Tube
- ☑ Other

6 Special Handling and Delivery Signature Options

- SATURDAY Delivery — NOT available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
- No Signature Required — Package may be left without obtaining a signature for delivery.
- Direct Signature — Someone at recipient's address may sign for delivery. *Fee applies.*
- Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. *Fee applies.*

Does this shipment contain dangerous goods? One box must be checked.

- ☑ No
- Yes — As per attached Shipper's Declaration.
- Yes — Shipper's Declaration not required.
- Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

- Cargo Aircraft Only

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below.

- ☑ Sender — Acct. No. in Section 1 will be billed.
- Recipient
- Third Party
- Credit Card
- Cash/Check

Total Packages	Total Weight	Total Declared Value†	Credit Card Auth.
1	42.	$ 0.00	

†Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

554

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fedex.com 1.800.GoFedEx 1.800.463.3339

FedEx USA Airbill FedEx Tracking Number 814881380959

0200 RSC

Recipient's Copy

1 From

Date 11/10/10

Sender's Name Derek Kinder Phone [redacted]

Company US Army Corps Of Engineers

Address 2711 St Rt 5 [redacted]

Dept./Floor/Suite/Room

City Ravenna State OH ZIP 44266

2 Your Internal Billing Reference

3 To

Recipient's Name Pat Lo[redacted] Phone 608 [redacted]

Company CT Lo[redacted]

Address 1230 L[redacted]

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

To "HOLD" at FedEx location, print FedEx address here.

City [redacted] State WI ZIP 53913

8148 8138 0959

4a Express Package Service *Packages up to 150 lbs.*

Delivery commitment may be later in some areas.

- ☐ FedEx Priority Overnight — Next business morning
- ☑ FedEx Standard Overnight — Next business afternoon
- ☐ FedEx First Overnight — Earliest next business morning delivery to select locations
- ☐ FedEx 2Day* — Second business day
- ☐ FedEx Express Saver* — Third business day

* FedEx Letter Rate not available. Minimum charge: One-pound rate

4b Express Freight Service *Packages over 150 lbs.*

Delivery commitment may be later in some areas.

- ☐ FedEx 1Day Freight* — Next business day
- ☐ FedEx 2Day Freight — Second business day
- ☐ FedEx 3Day Freight — Third business day

* Call for Confirmation: _____

5 Packaging * Declared value limit $500

- ☐ FedEx Letter*
- ☐ FedEx Pak*
- ☑ Other Pkg. — Includes FedEx Box, FedEx Tube, and customer pkg.

6 Special Handling

- ☐ **Saturday Delivery** — Available for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- ☐ **Sunday Delivery** — Available for FedEx Priority Overnight to select ZIP codes
- ☐ **HOLD Weekday** at FedEx Location — Not available with FedEx First Overnight
- ☐ **HOLD Saturday** at FedEx Location — Available for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked.

- ☑ No
- ☐ Yes — As per attached Shipper's Declaration
- ☐ Yes — Shipper's Declaration not required
- ☐ Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous Goods cannot be shipped in FedEx packaging.

☐ Cargo Aircraft Only

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below. ☐ Obtain Rec'p. Acct. No.

- ☑ Sender — Acct. No. in Section 1 will be billed
- ☐ Recipient
- ☐ Third Party
- ☐ Credit Card
- ☐ Cash/Check

[redacted]

Total Packages	Total Weight	Total Declared Value†	Total Charges
1	48	$ 0 .00	[redacted]

†Our liability is limited to $100 unless you declare a higher value. See back for details.

Credit Card Auth.

8 Release Signature *Sign to authorize delivery without obtaining signature.*

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

Questions? Call 1-800-Go-FedEx® (800-463-3339)

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360

CUSTODY SEAL

Person Collecting Sample Derek Kinder (signature) Sample No. RVAAD

Date Collected 11/10/10 Time Collected

Cooler 3612
11/11/10 0950 hrs
2.6°

GPL cooler
11/1/10 0950
yes
no custody seals present - tape intact
2.6°

FedEx US Airbill

Express

FedEx Tracking Number 8700 8410 0791

Recipient's Copy

1 From

Date

Sender's Name

Phone

Company

Address

Dept./Floor/Suite/Room

City

State ZIP

2 Your Internal Billing Reference

3 To

Recipient's Name

Phone

Company

HOLD Weekday — Print FedEx location address below. NOT available for FedEx First Overnight.

HOLD Saturday — Print FedEx location address below. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Address
We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

Address
Print FedEx location address here if a HOLD option is selected.

City

State ZIP

8700 8410 0791

4a Express Package Service * To most locations. *Packages up to 150 lbs.*

- FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available. ☑
- FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.
- FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

4b Express Freight Service ** To most locations. *Packages over 150 lbs.*

- FedEx 1Day Freight — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx 1Day Freight Booking No.
- FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

- FedEx Envelope*
- FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.
- FedEx Box
- FedEx Tube
- Other ☑

6 Special Handling and Delivery Signature Options

- SATURDAY Delivery — NOT available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
- No Signature Required — Package may be left without obtaining a signature for delivery.
- Direct Signature — Someone at recipient's address may sign for delivery. Fee applies.
- Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.

Does this shipment contain dangerous goods? One box must be checked.

- No
- Yes — As per attached Shipper's Declaration.
- Yes — Shipper's Declaration not required.
- Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

- Cargo Aircraft Only

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below.

- Sender — Acct. No. in Section 1 will be billed.
- Recipient
- Third Party
- Credit Card
- Cash/Check

Obtain Recip. Acct. No.

Total Packages: 1 | Total Weight: 56 lbs. | Total Declared Value†: $ 0 .00 | Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

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Page 3302

Coder 3376
11/11/10 0950
fs

1.8

CUSTODY SEAL

Person Collecting Sample Derek Kinder (Signature) **Sample No.** 1 KVAAD

Date Collected 11/10/10 **Time Collected** 1

FedEx US Airbill [redacted] 10 0806

Express

Recipient's Copy

1 From

Date 11/10/2010

Sender's Name [redacted] Phone [redacted]3515

Company Dec Army [redacted]

Address [redacted] Dept./Floor/Suite/Room

City Ravenna State HI ZIP 44266

2 Your Internal Billing Reference

3 To

Recipient's Name Pat Willerer Phone (8[redacted]2760

Company [redacted] Laboratories 37

Address 2630 [redacted] 0950 fs

We cannot deliver to P.O. boxes or P.O. ZIP codes. Dept./Floor/Suite/Room

Address

Print FedEx location address if HOLD option is selected.

City Prairie du [redacted] State WI ZIP 53713

HOLD Weekday — Print FedEx location address below. NOT available for FedEx First Overnight.

HOLD Saturday — Print FedEx location address below. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

4a Express Package Service *Packages up to 150 lbs.*

- FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.
- FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.
- FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

4b Express Freight Service ** To most locations. *Packages over 150 lbs.*

- FedEx 1Day Freight — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected. FedEx 1Day Freight Booking No.
- FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

FedEx Envelope* | FedEx Pak* Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak. | FedEx Box | FedEx Tube | Other

6 Special Handling and Delivery Signature Options

SATURDAY Delivery NOT available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.

No Signature Required — Package may be left without obtaining a signature for delivery.

Direct Signature — Someone at recipient's address may sign for delivery. Fee applies.

Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.

Does this shipment contain dangerous goods? One box must be checked.

No | Yes As per attached Shipper's Declaration | Yes Shipper's Declaration not required | Dry Ice Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

Cargo Aircraft Only

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below. Obtain Recipient Acct. No.

Sender Acct. No. in Section 1 will be billed. | Recipient | Third Party | Credit Card | Cash/Check

Total Packages	Total Weight	Total Declared Value†	Credit Card Auth.
1	60 lbs.	$ [redacted] .00	

†Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

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11/11/10 1100

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ANALYTICAL REPORT

This report at a minimum contains the following information:

- Analytical Report of Test Results
- Description of QC Qualifiers
- Chain of Custody (copy)
- Sample Condition Report
- Quality Control Summary
- Case Narrative (if applicable)
- Correspondence with Client (if applicable)

For analyses that require NELAP accreditation, all analytes, by matrix and method, are accredited following current NELAP standards unless specifically noted in this document.

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ANALYTICAL REPORT

USACE - LOUISVILLE
DEREK KINDER
600 DR MLKJ PLACE
PO BOX 59 ROOM 921
LOUISVILLE, KY 40201-0059

Project Name: RAVENNA
Contract #: 2263
Project #: W912QR-10-D-0024
Folder #: 82424
Purchase Order #:

Arrival Temperature: See COC
Report Date: 12/20/2010
Date Received: 11/11/2010
Reprint Date: 12/27/2010

CT LAB#: 870188 Sample Description: DLASS-027-0001-SO Sampled: 11/10/2010 0955

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results											
Solids, Percent	97.3	%				1			12/02/2010 17:00	KMB	EPA 8000C
Hexavalent Chromium	<2.0	mg/kg	2.0	6.4	6.6	1		12/7/2010 09:00	12/07/2010 13:50	JTG	EPA 3060A/7196A ^
Metals Results											
Aluminum	9400	mg/kg	0.082	0.25	0.25	2	B	12/2/2010 16:30	12/03/2010 19:06	NAH	EPA 6010C ^
Antimony	0.36	mg/kg	0.16	0.55	0.55	2	J V	12/2/2010 16:30	12/03/2010 19:06	NAH	EPA 6010C ^
Arsenic	9.5	mg/kg	0.27	0.92	0.92	2		12/2/2010 16:30	12/03/2010 19:06	NAH	EPA 6010C ^
Barium	104	mg/kg	0.016	0.055	0.055	2	B	12/2/2010 16:30	12/03/2010 19:06	NAH	EPA 6010C ^
Beryllium	0.58	mg/kg	0.0082	0.025	0.025	2		12/2/2010 16:30	12/03/2010 19:06	NAH	EPA 6010C ^
Cadmium	0.23	mg/kg	0.012	0.043	0.043	2		12/2/2010 16:30	12/03/2010 19:06	NAH	EPA 6010C ^
Calcium	10200	mg/kg	0.12	0.41	1.0	2	B	12/2/2010 16:30	12/03/2010 19:06	NAH	EPA 6010C ^
Chromium	13.9	mg/kg	0.039	0.13	0.13	2	B	12/2/2010 16:30	12/03/2010 19:06	NAH	EPA 6010C ^
Cobalt	7.1	mg/kg	0.031	0.10	0.10	2	B	12/2/2010 16:30	12/03/2010 19:06	NAH	EPA 6010C ^
Copper	7.1	mg/kg	0.12	0.41	0.41	2		12/2/2010 16:30	12/03/2010 19:06	NAH	EPA 6010C ^
Iron	24300	mg/kg	0.62	2.1	2.1	2		12/2/2010 16:30	12/09/2010 18:39	NAH	EPA 6010C ^
Lead	15.8	mg/kg	0.082	0.29	0.29	2		12/2/2010 16:30	12/03/2010 19:06	NAH	EPA 6010C ^
Magnesium	2000	mg/kg	0.25	0.82	0.82	2		12/2/2010 16:30	12/09/2010 18:39	NAH	EPA 6010C ^
Manganese	1510	mg/kg	0.033	0.11	0.10	2		12/2/2010 16:30	12/09/2010 18:39	NAH	EPA 6010C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 870188 Sample Description: DLASS-027-0001-SO Sampled: 11/10/2010 0955

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Nickel	12.4	mg/kg	0.037	0.13	0.13	2		12/2/2010 16:30	12/03/2010 19:06	NAH	EPA 6010C ^
Selenium	1.9	mg/kg	0.14	0.43	0.86	2		12/2/2010 16:30	12/03/2010 19:06	NAH	EPA 6010C ^
Silver	0.21	mg/kg	0.035	0.12	0.12	2		12/2/2010 16:30	12/03/2010 19:06	NAH	EPA 6010C ^
Thallium	0.11	mg/kg	0.082	0.29	0.29	2	J V	12/2/2010 16:30	12/09/2010 18:39	NAH	EPA 6010C ^
Vanadium	19.3	mg/kg	0.023	0.070	0.070	2		12/2/2010 16:30	12/03/2010 19:06	NAH	EPA 6010C ^
Zinc	42.0	mg/kg	0.082	0.25	0.25	2		12/2/2010 16:30	12/03/2010 19:06	NAH	EPA 6010C ^
Potassium	614	mg/kg	11	37	37	1		12/2/2010 16:30	12/03/2010 15:37	NAH	EPA 6010C ^
Sodium	35.5	mg/kg	4.1	13	13	1		12/2/2010 16:30	12/03/2010 15:37	NAH	EPA 6010C ^
Mercury	0.031	mg/kg	0.0025	0.0081	0.0081	1		12/7/2010 15:30	12/08/2010 14:03	GCE	EPA 7471A ^
Sub Lab Results											
Asbestos	ATTACHED					1			11/17/2010 00:00	PML	

CT LAB#: 870189 Sample Description: DLASS-002-0001-SO Sampled: 11/10/2010 1015

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results											
Solids, Percent	98.1	%				1			12/02/2010 17:00	KMB	EPA 8000C
Nitrocellulose	<7.0	mg/kg	7.0	23	7.0	1		12/8/2010 08:00	12/11/2010 20:23	BMS	EPA 9056M
Hexavalent Chromium	<1.9	mg/kg	1.9	6.3	6.5	1	M	12/7/2010 09:00	12/07/2010 13:50	JTG	EPA 3060A/7196A ^
Metals Results											
Aluminum	10900	mg/kg	0.082	0.24	0.24	2	B	12/2/2010 16:30	12/03/2010 19:12	NAH	EPA 6010C ^
Antimony	99.4	mg/kg	0.16	0.55	0.55	2		12/2/2010 16:30	12/03/2010 19:12	NAH	EPA 6010C ^
Arsenic	10.1	mg/kg	0.27	0.92	0.92	2		12/2/2010 16:30	12/03/2010 19:12	NAH	EPA 6010C ^
Barium	121	mg/kg	0.016	0.055	0.055	2	B	12/2/2010 16:30	12/03/2010 19:12	NAH	EPA 6010C ^
Beryllium	0.57	mg/kg	0.0082	0.024	0.024	2		12/2/2010 16:30	12/03/2010 19:12	NAH	EPA 6010C ^
Cadmium	0.29	mg/kg	0.012	0.043	0.043	2	M,Y	12/2/2010 16:30	12/03/2010 19:12	NAH	EPA 6010C ^
Calcium	3740	mg/kg	0.12	0.41	1.0	2	B	12/2/2010 16:30	12/03/2010 19:12	NAH	EPA 6010C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 870189 Sample Description: DLASS-002-0001-SO Sampled: 11/10/2010 1015

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Chromium	110	mg/kg	0.039	0.13	0.13	2	B	12/2/2010 16:30	12/03/2010 19:12	NAH	EPA 6010C ^
Cobalt	9.1	mg/kg	0.031	0.10	0.10	2	M,B	12/2/2010 16:30	12/03/2010 19:12	NAH	EPA 6010C ^
Copper	10.3	mg/kg	0.12	0.41	0.41	2	M	12/2/2010 16:30	12/03/2010 19:12	NAH	EPA 6010C ^
Iron	29800	mg/kg	0.61	2.0	2.0	2		12/2/2010 16:30	12/09/2010 18:45	NAH	EPA 6010C ^
Lead	48.6	mg/kg	0.082	0.29	0.29	2	M	12/2/2010 16:30	12/03/2010 19:12	NAH	EPA 6010C ^
Magnesium	2290	mg/kg	0.24	0.82	0.82	2		12/2/2010 16:30	12/09/2010 18:45	NAH	EPA 6010C ^
Manganese	1510	mg/kg	0.033	0.11	0.10	2		12/2/2010 16:30	12/09/2010 18:45	NAH	EPA 6010C ^
Nickel	12.8	mg/kg	0.037	0.12	0.12	2	M	12/2/2010 16:30	12/03/2010 19:12	NAH	EPA 6010C ^
Selenium	1.7	mg/kg	0.14	0.43	0.86	2		12/2/2010 16:30	12/03/2010 19:12	NAH	EPA 6010C ^
Silver	0.15	mg/kg	0.035	0.11	0.11	2		12/2/2010 16:30	12/03/2010 19:12	NAH	EPA 6010C ^
Thallium	0.69	mg/kg	0.082	0.29	0.29	2		12/2/2010 16:30	12/09/2010 18:45	NAH	EPA 6010C ^
Vanadium	21.5	mg/kg	0.022	0.069	0.069	2		12/2/2010 16:30	12/03/2010 19:12	NAH	EPA 6010C ^
Zinc	58.6	mg/kg	0.082	0.24	0.24	2	M	12/2/2010 16:30	12/03/2010 19:12	NAH	EPA 6010C ^
Potassium	948	mg/kg	11	37	37	1		12/2/2010 16:30	12/03/2010 15:40	NAH	EPA 6010C ^
Sodium	47.9	mg/kg	4.1	13	13	1		12/2/2010 16:30	12/03/2010 15:40	NAH	EPA 6010C ^
Mercury	0.11	mg/kg	0.0024	0.0081	0.0081	1		12/7/2010 15:30	12/08/2010 14:05	GCE	EPA 7471A ^
Organic Results											
1,2,4-Trichlorobenzene	<21	ug/kg	21	71	410	1		12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
1,2-Dichlorobenzene	<25	ug/kg	25	81	410	1		12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
1,3-Dichlorobenzene	<20	ug/kg	20	69	410	1		12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
1,4-Dichlorobenzene	<19	ug/kg	19	64	410	1		12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
1-Methylnaphthalene	<26	ug/kg	26	85	410	1		12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C
2,4,5-Trichlorophenol	<130	ug/kg	130	450	510	1		12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
2,4,6-Trichlorophenol	<130	ug/kg	130	450	510	1		12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
2,4-Dichlorophenol	<120	ug/kg	120	420	510	1		12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
2,4-Dimethylphenol	<100	ug/kg	100	340	410	1	M	12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
2,4-Dinitrophenol	<710	ug/kg	710	2400	2000	1	M	12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
2,4-Dinitrotoluene	<25	ug/kg	25	81	410	1		12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 870189 Sample Description: DLASS-002-0001-SO Sampled: 11/10/2010 1015

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,6-Dichlorophenol	<140	ug/kg	140	490	510	1		12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
2,6-Dinitrotoluene	<25	ug/kg	25	83	410	1		12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
2-Chloronaphthalene	<24	ug/kg	24	78	410	1		12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
2-Chlorophenol	<350	ug/kg	350	1100	510	1		12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
2-Methylnaphthalene	36	ug/kg	26	85	410	1	J	12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
2-Methylphenol	<430	ug/kg	430	1400	1000	1		12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
2-Nitroaniline	<24	ug/kg	24	80	410	1		12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
2-Nitrophenol	<290	ug/kg	290	960	510	1		12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
3 & 4-Methylphenol	<670	ug/kg	670	2300	2000	1		12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
3,3'-Dichlorobenzidine	<150	ug/kg	150	500	510	1	M	12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
3-Nitroaniline	<23	ug/kg	23	74	1000	1	M	12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
4,6-Dinitro-2-methylphenol	<280	ug/kg	280	920	1000	1	M,Y	12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
4-Bromophenyl-phenyl ether	<26	ug/kg	26	85	410	1		12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
4-Chloro-3-methylphenol	<390	ug/kg	390	1300	510	1		12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
4-Chloroaniline	<40	ug/kg	40	130	410	1	M	12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
4-Chlorophenyl-phenyl ether	<27	ug/kg	27	89	410	1		12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
4-Nitroaniline	<31	ug/kg	31	100	1000	1		12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
4-Nitrophenol	<410	ug/kg	410	1300	1000	1		12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
Acenaphthene	<25	ug/kg	25	82	410	1		12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
Acenaphthylene	33	ug/kg	25	83	410	1	J	12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
Acetophenone	<77	ug/kg	77	260	410	1		12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
Aniline	<32	ug/kg	32	100	410	1	M	12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C
Anthracene	97	ug/kg	25	83	410	1	J	12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
Azobenzene & 1,2-Diphenylhydra	<56	ug/kg	56	180	820	1		12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
Benzidine	<970	ug/kg	970	3300	2000	1	M	12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
Benzo(a)anthracene	370	ug/kg	26	86	410	1	J	12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
Benzo(a)pyrene	280	ug/kg	24	80	410	1	J	12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
Benzo(b)fluoranthene	440	ug/kg	26	87	410	1		12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
Benzo(g,h,i)perylene	150	ug/kg	23	75	410	1	J	12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 870189 Sample Description: DLASS-002-0001-SO Sampled: 11/10/2010 1015

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Benzo(k)fluoranthene	170	ug/kg	26	87	410	1	J	12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
Benzoic acid	350	ug/kg	300	1000	2000	1	J	12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
Benzyl alcohol	<85	ug/kg	85	290	1000	1		12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
Bis(2-chloroethoxy)methane	<24	ug/kg	24	78	410	1		12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
Bis(2-chloroethyl)ether	<26	ug/kg	26	86	410	1		12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
Bis(2-chloroisopropyl)ether	<31	ug/kg	31	100	410	1		12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
Bis(2-ethylhexyl)phthalate	220	ug/kg	89	300	1000	1	J	12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
Butylbenzylphthalate	<75	ug/kg	75	250	410	1		12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
Carbazole	<29	ug/kg	29	96	410	1		12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
Chrysene	360	ug/kg	26	86	410	1	J	12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
Di-n-butylphthalate	90	ug/kg	81	270	410	1	J	12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
Di-n-octylphthalate	<60	ug/kg	60	200	410	1		12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
Dibenzo(a,h)anthracene	50	ug/kg	23	77	410	1	J	12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
Dibenzofuran	<25	ug/kg	25	83	410	1		12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
Diethylphthalate	<66	ug/kg	66	230	410	1		12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
Dimethylphthalate	<64	ug/kg	64	210	410	1		12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
Fluoranthene	720	ug/kg	27	88	410	1		12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
Fluorene	<26	ug/kg	26	87	410	1		12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
Hexachlorobenzene	<29	ug/kg	29	96	410	1		12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
Hexachlorobutadiene	<63	ug/kg	63	210	410	1		12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
Hexachlorocyclopentadiene	<53	ug/kg	53	170	410	1	M,Y	12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
Hexachloroethane	<34	ug/kg	34	110	410	1		12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
Indeno(1,2,3-cd)pyrene	150	ug/kg	24	77	410	1	J	12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
Isophorone	<51	ug/kg	51	170	410	1		12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
N-Nitroso-di-n-propylamine	<72	ug/kg	72	240	410	1		12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
N-Nitrosodimethylamine	<80	ug/kg	80	270	410	1		12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
N-Nitrosodiphenylamine & Diphn	<51	ug/kg	51	160	820	1		12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
N-Nitrosopyrrolidine	<57	ug/kg	57	190	410	1		12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
Naphthalene	27	ug/kg	21	73	410	1	J	12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 870189 Sample Description: DLASS-002-0001-SO Sampled: 11/10/2010 1015

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Nitrobenzene	<60	ug/kg	60	200	410	1		12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
Pentachlorophenol	<250	ug/kg	250	820	1000	1		12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
Phenanthrene	320	ug/kg	27	90	410	1	J	12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
Phenol	<160	ug/kg	160	540	510	1		12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
Pyrene	570	ug/kg	27	88	410	1		12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
Pyridine	<40	ug/kg	40	130	410	1	Q,M	12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C ^
Surr: 2,4,6-Tribromophenol	73	% Recovery	35	125	35-125	1		12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C
Surr: 2-Fluorobiphenyl	72	% Recovery	45	105	45-105	1		12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C
Surr: 2-Fluorophenol	70	% Recovery	35	105	35-105	1		12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C
Surr: Nitrobenzene-d5	70	% Recovery	35	100	35-100	1		12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C
Surr: Phenol-d5	77	% Recovery	40	100	40-100	1		12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C
Surr: Terphenyl-d14	79	% Recovery	30	125	30-125	1		12/3/2010 15:00	12/08/2010 20:59	RPN	EPA 8270C
Aroclor-1016	<10	ug/kg	10	36	51	1		12/3/2010 15:00	12/08/2010 16:42	JJY	EPA 8082A ^
Aroclor-1221	<20	ug/kg	20	67	51	1		12/3/2010 15:00	12/08/2010 16:42	JJY	EPA 8082A ^
Aroclor-1232	<28	ug/kg	28	92	51	1		12/3/2010 15:00	12/08/2010 16:42	JJY	EPA 8082A ^
Aroclor-1242	<30	ug/kg	30	98	51	1		12/3/2010 15:00	12/08/2010 16:42	JJY	EPA 8082A ^
Aroclor-1248	<30	ug/kg	30	99	51	1		12/3/2010 15:00	12/08/2010 16:42	JJY	EPA 8082A ^
Aroclor-1254	<23	ug/kg	23	77	51	1		12/3/2010 15:00	12/08/2010 16:42	JJY	EPA 8082A ^
Aroclor-1260	<12	ug/kg	12	39	51	1		12/3/2010 15:00	12/08/2010 16:42	JJY	EPA 8082A ^
Aroclor-1262	<21	ug/kg	21	72	51	1		12/3/2010 15:00	12/08/2010 16:42	JJY	EPA 8082A ^
Aroclor-1268	<29	ug/kg	29	94	51	1		12/3/2010 15:00	12/08/2010 16:42	JJY	EPA 8082A ^
Surr: DCBP	94	% Recovery	60	125	60-125	1		12/3/2010 15:00	12/08/2010 16:42	JJY	EPA 8082A
Nitroguanidine	0.11	mg/kg	0.060	0.21	0.16	1	J P	12/6/2010 16:00	12/17/2010 01:26	RED	EPA 8330
1,2-Dinitrobenzene	90	% Recovery	50	150	50-150	1		12/6/2010 16:00	12/17/2010 01:26	RED	EPA 8330
1,3,5-Trinitrobenzene	<0.13	mg/kg	0.13	0.43	0.44	1		12/6/2010 17:15	12/14/2010 17:27	RED	EPA 8330B
1,3-Dinitrobenzene	<0.081	mg/kg	0.081	0.26	0.44	1		12/6/2010 17:15	12/14/2010 17:27	RED	EPA 8330B
2,4,6-Trinitrotoluene	<0.091	mg/kg	0.091	0.31	0.44	1		12/6/2010 17:15	12/14/2010 17:27	RED	EPA 8330B
2,4-Dinitrotoluene	<0.20	mg/kg	0.20	0.67	0.44	1		12/6/2010 17:15	12/14/2010 17:27	RED	EPA 8330B

Solid sample results reported on a Dry Weight Basis

CT LAB#: 870189 Sample Description: DLASS-002-0001-SO Sampled: 11/10/2010 1015

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,6-Dinitrotoluene	<0.071	mg/kg	0.071	0.24	0.51	1		12/6/2010 17:15	12/14/2010 17:27	RED	EPA 8330B
2-Amino-4,6-dinitrotoluene	<0.051	mg/kg	0.051	0.18	0.44	1		12/6/2010 17:15	12/14/2010 17:27	RED	EPA 8330B
2-Nitrotoluene	<0.091	mg/kg	0.091	0.28	0.44	1		12/6/2010 17:15	12/14/2010 17:27	RED	EPA 8330B
3,5-Dinitroaniline	<0.091	mg/kg	0.091	0.28	0.44	1		12/6/2010 17:15	12/14/2010 17:27	RED	EPA 8330B
3-Nitrotoluene	<0.071	mg/kg	0.071	0.24	0.44	1		12/6/2010 17:15	12/14/2010 17:27	RED	EPA 8330B
4-Amino-2,6-dinitrotoluene	<0.071	mg/kg	0.071	0.24	0.44	1		12/6/2010 17:15	12/14/2010 17:27	RED	EPA 8330B
4-Nitrotoluene	<0.071	mg/kg	0.071	0.24	0.51	1		12/6/2010 17:15	12/14/2010 17:27	RED	EPA 8330B
HMX	<0.12	mg/kg	0.12	0.39	0.44	1		12/6/2010 17:15	12/14/2010 17:27	RED	EPA 8330B
Nitrobenzene	<0.040	mg/kg	0.040	0.14	0.44	1		12/6/2010 17:15	12/14/2010 17:27	RED	EPA 8330B
Nitroglycerin	<0.51	mg/kg	0.51	1.8	1.5	1		12/6/2010 17:15	12/14/2010 17:27	RED	EPA 8330B
PETN	<0.51	mg/kg	0.51	1.8	1.5	1		12/6/2010 17:15	12/14/2010 17:27	RED	EPA 8330B
RDX	<0.16	mg/kg	0.16	0.53	0.44	1		12/6/2010 17:15	12/14/2010 17:27	RED	EPA 8330B
Tetryl	<0.091	mg/kg	0.091	0.30	0.44	1		12/6/2010 17:15	12/14/2010 17:27	RED	EPA 8330B
1,2-Dinitrobenzene	125	% Recovery	75	127	75-127	1		12/6/2010 17:15	12/14/2010 17:27	RED	EPA 8330B
Sub Lab Results											
Asbestos	ATTACHED					1			11/17/2010 00:00	PML	
Pesticides	ATTACHED					1			12/17/2010 00:00	PML	SW8081

CT LAB#: 870190 Sample Description: DLASS-018-0001-SO Sampled: 11/10/2010 1225

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results											
Solids, Percent	97.5	%				1			12/02/2010 17:00	KMB	EPA 8000C
Hexavalent Chromium	<1.9	mg/kg	1.9	6.4	6.6	1		12/7/2010 09:00	12/07/2010 13:50	JTG	EPA 3060A/7196A ^
Metals Results											
Aluminum	11200	mg/kg	0.082	0.25	0.25	2	B	12/2/2010 16:30	12/03/2010 20:07	NAH	EPA 6010C ^
Antimony	2.4	mg/kg	0.16	0.55	0.55	2		12/2/2010 16:30	12/03/2010 20:07	NAH	EPA 6010C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 870190 Sample Description: DLASS-018-0001-SO Sampled: 11/10/2010 1225

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Arsenic	9.7	mg/kg	0.27	0.92	0.92	2		12/2/2010 16:30	12/03/2010 20:07	NAH	EPA 6010C ^
Barium	86.2	mg/kg	0.016	0.055	0.055	2	B	12/2/2010 16:30	12/03/2010 20:07	NAH	EPA 6010C ^
Beryllium	0.55	mg/kg	0.0082	0.025	0.025	2		12/2/2010 16:30	12/03/2010 20:07	NAH	EPA 6010C ^
Cadmium	0.17	mg/kg	0.012	0.043	0.043	2		12/2/2010 16:30	12/03/2010 20:07	NAH	EPA 6010C ^
Calcium	1420	mg/kg	0.12	0.41	1.0	2	B	12/2/2010 16:30	12/03/2010 20:07	NAH	EPA 6010C ^
Chromium	94.9	mg/kg	0.039	0.13	0.13	2	B	12/2/2010 16:30	12/03/2010 20:07	NAH	EPA 6010C ^
Cobalt	9.2	mg/kg	0.031	0.10	0.10	2	B	12/2/2010 16:30	12/03/2010 20:07	NAH	EPA 6010C ^
Copper	12.1	mg/kg	0.12	0.41	0.41	2		12/2/2010 16:30	12/03/2010 20:07	NAH	EPA 6010C ^
Iron	24600	mg/kg	0.62	2.1	2.1	2		12/2/2010 16:30	12/09/2010 19:17	NAH	EPA 6010C ^
Lead	29.7	mg/kg	0.082	0.29	0.29	2		12/2/2010 16:30	12/03/2010 20:07	NAH	EPA 6010C ^
Magnesium	1620	mg/kg	0.25	0.82	0.82	2		12/2/2010 16:30	12/09/2010 19:17	NAH	EPA 6010C ^
Manganese	1270	mg/kg	0.033	0.11	0.10	2		12/2/2010 16:30	12/09/2010 19:17	NAH	EPA 6010C ^
Nickel	12.8	mg/kg	0.037	0.13	0.13	2	B	12/2/2010 16:30	12/03/2010 20:07	NAH	EPA 6010C ^
Selenium	0.93	mg/kg	0.14	0.43	0.86	2		12/2/2010 16:30	12/09/2010 19:17	NAH	EPA 6010C ^
Silver	<0.035	mg/kg	0.035	0.11	0.11	2	V	12/2/2010 16:30	12/03/2010 20:07	NAH	EPA 6010C ^
Thallium	0.53	mg/kg	0.082	0.29	0.29	2		12/2/2010 16:30	12/09/2010 19:17	NAH	EPA 6010C ^
Vanadium	23.2	mg/kg	0.023	0.070	0.070	2		12/2/2010 16:30	12/03/2010 20:07	NAH	EPA 6010C ^
Zinc	52.8	mg/kg	0.082	0.25	0.25	2		12/2/2010 16:30	12/03/2010 20:07	NAH	EPA 6010C ^
Potassium	728	mg/kg	11	37	37	1		12/2/2010 16:30	12/03/2010 15:59	NAH	EPA 6010C ^
Sodium	29.2	mg/kg	4.1	13	13	1		12/2/2010 16:30	12/03/2010 15:59	NAH	EPA 6010C ^
Mercury	0.034	mg/kg	0.0025	0.0081	0.0081	1		12/7/2010 15:30	12/08/2010 14:20	GCE	EPA 7471A ^

Sub Lab Results

Asbestos	ATTACHED					1			11/17/2010 00:00	PML	

CT LAB#: 870191 Sample Description: DLASS-001-0001-SO Sampled: 11/10/2010 1030

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method

Inorganic Results

Solid sample results reported on a Dry Weight Basis

CT LAB#: 870191 Sample Description: DLASS-001-0001-SO Sampled: 11/10/2010 1030

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Solids, Percent	98.4	%				1			12/02/2010 17:00	KMB	EPA 8000C
Hexavalent Chromium	<1.9	mg/kg	1.9	6.3	6.5	1		12/7/2010 09:00	12/07/2010 13:50	JTG	EPA 3060A/7196A ^
Metals Results											
Aluminum	10400	mg/kg	0.081	0.24	0.24	2	B	12/2/2010 16:30	12/03/2010 20:12	NAH	EPA 6010C ^
Antimony	1400	mg/kg	0.16	0.55	0.55	2		12/2/2010 16:30	12/03/2010 20:12	NAH	EPA 6010C ^
Arsenic	14.8	mg/kg	0.26	0.91	0.91	2		12/2/2010 16:30	12/03/2010 20:12	NAH	EPA 6010C ^
Barium	78.3	mg/kg	0.016	0.055	0.055	2	B	12/2/2010 16:30	12/03/2010 20:12	NAH	EPA 6010C ^
Beryllium	0.60	mg/kg	0.0081	0.024	0.024	2		12/2/2010 16:30	12/03/2010 20:12	NAH	EPA 6010C ^
Cadmium	0.20	mg/kg	0.012	0.043	0.043	2		12/2/2010 16:30	12/03/2010 20:12	NAH	EPA 6010C ^
Calcium	7470	mg/kg	0.12	0.41	1.0	2	B	12/2/2010 16:30	12/03/2010 20:12	NAH	EPA 6010C ^
Chromium	35.8	mg/kg	0.039	0.13	0.13	2	B	12/2/2010 16:30	12/03/2010 20:12	NAH	EPA 6010C ^
Cobalt	7.8	mg/kg	0.030	0.10	0.10	2	B	12/2/2010 16:30	12/03/2010 20:12	NAH	EPA 6010C ^
Copper	12.4	mg/kg	0.12	0.41	0.41	2		12/2/2010 16:30	12/03/2010 20:12	NAH	EPA 6010C ^
Iron	23400	mg/kg	0.61	2.0	2.0	2		12/2/2010 16:30	12/09/2010 19:23	NAH	EPA 6010C ^
Lead	39.5	mg/kg	0.081	0.28	0.28	2		12/2/2010 16:30	12/03/2010 20:12	NAH	EPA 6010C ^
Magnesium	2700	mg/kg	0.24	0.81	0.81	2		12/2/2010 16:30	12/09/2010 19:23	NAH	EPA 6010C ^
Manganese	849	mg/kg	0.033	0.11	0.10	2		12/2/2010 16:30	12/09/2010 19:23	NAH	EPA 6010C ^
Nickel	16.1	mg/kg	0.037	0.12	0.12	2	B	12/2/2010 16:30	12/03/2010 20:12	NAH	EPA 6010C ^
Selenium	<0.14	mg/kg	0.14	0.43	0.85	2	B,V	12/2/2010 16:30	12/03/2010 20:12	NAH	EPA 6010C ^
Silver	<0.035	mg/kg	0.035	0.11	0.11	2	V	12/2/2010 16:30	12/03/2010 20:12	NAH	EPA 6010C ^
Thallium	0.88	mg/kg	0.081	0.28	0.28	2		12/2/2010 16:30	12/09/2010 19:23	NAH	EPA 6010C ^
Vanadium	16.7	mg/kg	0.022	0.069	0.069	2		12/2/2010 16:30	12/03/2010 20:12	NAH	EPA 6010C ^
Zinc	69.1	mg/kg	0.081	0.24	0.24	2		12/2/2010 16:30	12/03/2010 20:12	NAH	EPA 6010C ^
Potassium	633	mg/kg	11	37	37	1		12/2/2010 16:30	12/03/2010 16:02	NAH	EPA 6010C ^
Sodium	46.2	mg/kg	4.1	13	13	1		12/2/2010 16:30	12/03/2010 16:02	NAH	EPA 6010C ^
Mercury	0.046	mg/kg	0.0024	0.0080	0.0080	1		12/7/2010 15:30	12/08/2010 14:22	GCE	EPA 7471A ^
Sub Lab Results											
Asbestos	ATTACHED					1			11/17/2010 00:00	PML	

Solid sample results reported on a Dry Weight Basis

CT LAB#: 870192 Sample Description: DLASS-016-0001-SO Sampled: 11/10/2010 1405

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results											
Solids, Percent	98.2	%				1			12/02/2010 17:00	KMB	EPA 8000C
Hexavalent Chromium	<1.9	mg/kg	1.9	6.3	6.5	1		12/7/2010 09:00	12/07/2010 13:50	JTG	EPA 3060A/7196A ^
Metals Results											
Aluminum	12100	mg/kg	0.081	0.24	0.24	2	B	12/2/2010 16:30	12/03/2010 20:18	NAH	EPA 6010C ^
Antimony	25.1	mg/kg	0.16	0.55	0.55	2		12/2/2010 16:30	12/03/2010 20:18	NAH	EPA 6010C ^
Arsenic	9.9	mg/kg	0.26	0.92	0.92	2		12/2/2010 16:30	12/03/2010 20:18	NAH	EPA 6010C ^
Barium	107	mg/kg	0.016	0.055	0.055	2	B	12/2/2010 16:30	12/03/2010 20:18	NAH	EPA 6010C ^
Beryllium	0.70	mg/kg	0.0081	0.024	0.024	2		12/2/2010 16:30	12/03/2010 20:18	NAH	EPA 6010C ^
Cadmium	0.26	mg/kg	0.012	0.043	0.043	2		12/2/2010 16:30	12/03/2010 20:18	NAH	EPA 6010C ^
Calcium	7990	mg/kg	0.12	0.41	1.0	2	B	12/2/2010 16:30	12/03/2010 20:18	NAH	EPA 6010C ^
Chromium	31.1	mg/kg	0.039	0.13	0.13	2	B	12/2/2010 16:30	12/03/2010 20:18	NAH	EPA 6010C ^
Cobalt	8.4	mg/kg	0.031	0.10	0.10	2	B	12/2/2010 16:30	12/03/2010 20:18	NAH	EPA 6010C ^
Copper	8.9	mg/kg	0.12	0.41	0.41	2		12/2/2010 16:30	12/03/2010 20:18	NAH	EPA 6010C ^
Iron	26800	mg/kg	0.61	2.0	2.0	2		12/2/2010 16:30	12/09/2010 19:28	NAH	EPA 6010C ^
Lead	25.1	mg/kg	0.081	0.29	0.29	2		12/2/2010 16:30	12/03/2010 20:18	NAH	EPA 6010C ^
Magnesium	2420	mg/kg	0.24	0.81	0.81	2		12/2/2010 16:30	12/09/2010 19:28	NAH	EPA 6010C ^
Manganese	1410	mg/kg	0.033	0.11	0.10	2		12/2/2010 16:30	12/09/2010 19:28	NAH	EPA 6010C ^
Nickel	11.3	mg/kg	0.037	0.12	0.12	2	B	12/2/2010 16:30	12/03/2010 20:18	NAH	EPA 6010C ^
Selenium	<0.14	mg/kg	0.14	0.43	0.86	2	V	12/2/2010 16:30	12/09/2010 19:28	NAH	EPA 6010C ^
Silver	0.077	mg/kg	0.035	0.11	0.11	2	J V	12/2/2010 16:30	12/03/2010 20:18	NAH	EPA 6010C ^
Thallium	0.69	mg/kg	0.081	0.29	0.29	2		12/2/2010 16:30	12/09/2010 19:28	NAH	EPA 6010C ^
Vanadium	22.9	mg/kg	0.022	0.069	0.069	2		12/2/2010 16:30	12/03/2010 20:18	NAH	EPA 6010C ^
Zinc	68.7	mg/kg	0.081	0.24	0.24	2		12/2/2010 16:30	12/03/2010 20:18	NAH	EPA 6010C ^
Potassium	731	mg/kg	11	37	37	1		12/2/2010 16:30	12/03/2010 16:04	NAH	EPA 6010C ^
Sodium	51.2	mg/kg	4.1	13	13	1		12/2/2010 16:30	12/03/2010 16:04	NAH	EPA 6010C ^
Mercury	0.049	mg/kg	0.0024	0.0080	0.0080	1		12/7/2010 15:30	12/08/2010 14:24	GCE	EPA 7471A ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 870192 Sample Description: DLASS-016-0001-SO Sampled: 11/10/2010 1405

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Sub Lab Results											
Asbestos	ATTACHED					1			11/17/2010 00:00	PML	

CT LAB#: 870193 Sample Description: DLASS-017-0001-SO Sampled: 11/10/2010 1330

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results											
Solids, Percent	98.3	%				1			12/02/2010 17:00	KMB	EPA 8000C
Hexavalent Chromium	<1.9	mg/kg	1.9	6.3	6.5	1		12/7/2010 09:00	12/07/2010 13:50	JTG	EPA 3060A/7196A ^
Metals Results											
Aluminum	12900	mg/kg	0.081	0.24	0.24	2	B	12/2/2010 16:30	12/03/2010 20:24	NAH	EPA 6010C ^
Antimony	2.7	mg/kg	0.16	0.55	0.55	2		12/2/2010 16:30	12/03/2010 20:24	NAH	EPA 6010C ^
Arsenic	9.5	mg/kg	0.26	0.92	0.92	2		12/2/2010 16:30	12/03/2010 20:24	NAH	EPA 6010C ^
Barium	121	mg/kg	0.016	0.055	0.055	2	B	12/2/2010 16:30	12/03/2010 20:24	NAH	EPA 6010C ^
Beryllium	0.64	mg/kg	0.0081	0.024	0.024	2		12/2/2010 16:30	12/03/2010 20:24	NAH	EPA 6010C ^
Cadmium	0.39	mg/kg	0.012	0.043	0.043	2		12/2/2010 16:30	12/03/2010 20:24	NAH	EPA 6010C ^
Calcium	4250	mg/kg	0.12	0.41	1.0	2	B	12/2/2010 16:30	12/03/2010 20:24	NAH	EPA 6010C ^
Chromium	134	mg/kg	0.039	0.13	0.13	2	B	12/2/2010 16:30	12/03/2010 20:24	NAH	EPA 6010C ^
Cobalt	9.6	mg/kg	0.031	0.10	0.10	2	B	12/2/2010 16:30	12/03/2010 20:24	NAH	EPA 6010C ^
Copper	10.8	mg/kg	0.12	0.41	0.41	2		12/2/2010 16:30	12/03/2010 20:24	NAH	EPA 6010C ^
Iron	26000	mg/kg	0.61	2.0	2.0	2		12/2/2010 16:30	12/09/2010 19:54	NAH	EPA 6010C ^
Lead	23.7	mg/kg	0.081	0.28	0.28	2		12/2/2010 16:30	12/03/2010 20:24	NAH	EPA 6010C ^
Magnesium	1840	mg/kg	0.24	0.81	0.81	2		12/2/2010 16:30	12/09/2010 19:54	NAH	EPA 6010C ^
Manganese	1270	mg/kg	0.033	0.11	0.10	2		12/2/2010 16:30	12/09/2010 19:54	NAH	EPA 6010C ^
Nickel	14.5	mg/kg	0.037	0.12	0.12	2	B	12/2/2010 16:30	12/03/2010 20:24	NAH	EPA 6010C ^
Selenium	0.50	mg/kg	0.14	0.43	0.85	2	J V	12/2/2010 16:30	12/09/2010 19:54	NAH	EPA 6010C ^
Silver	0.20	mg/kg	0.035	0.11	0.11	2		12/2/2010 16:30	12/03/2010 20:24	NAH	EPA 6010C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 870193 Sample Description: DLASS-017-0001-SO Sampled: 11/10/2010 1330

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Thallium	<0.081	mg/kg	0.081	0.28	0.28	2	V	12/2/2010 16:30	12/03/2010 20:24	NAH	EPA 6010C ^
Vanadium	24.4	mg/kg	0.022	0.069	0.069	2		12/2/2010 16:30	12/03/2010 20:24	NAH	EPA 6010C ^
Zinc	104	mg/kg	0.081	0.24	0.24	2		12/2/2010 16:30	12/03/2010 20:24	NAH	EPA 6010C ^
Potassium	946	mg/kg	11	37	37	1		12/2/2010 16:30	12/03/2010 16:07	NAH	EPA 6010C ^
Sodium	54.9	mg/kg	4.1	13	13	1		12/2/2010 16:30	12/03/2010 16:07	NAH	EPA 6010C ^
Mercury	0.052	mg/kg	0.0024	0.0080	0.0080	1		12/7/2010 15:30	12/08/2010 14:26	GCE	EPA 7471A ^
Sub Lab Results											
Asbestos	ATTACHED					1			11/17/2010 00:00	PML	

CT LAB#: 870194 Sample Description: DLASS-022-0001-SO Sampled: 11/9/2010 1220

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results											
Solids, Percent	98.2	%				1			12/02/2010 17:00	KMB	EPA 8000C
Nitrocellulose	<7.0	mg/kg	7.0	23	7.0	1		12/8/2010 08:00	12/11/2010 21:10	BMS	EPA 9056M
Hexavalent Chromium	<1.9	mg/kg	1.9	6.3	6.5	1	M	12/8/2010 12:00	12/08/2010 16:00	CES	EPA 3060A/7196A ^
Metals Results											
Aluminum	10900	mg/kg	0.081	0.24	0.24	2	B	12/2/2010 16:30	12/03/2010 20:29	NAH	EPA 6010C ^
Antimony	2.3	mg/kg	0.16	0.55	0.55	2		12/2/2010 16:30	12/03/2010 20:29	NAH	EPA 6010C ^
Arsenic	10.2	mg/kg	0.26	0.92	0.92	2		12/2/2010 16:30	12/03/2010 20:29	NAH	EPA 6010C ^
Barium	104	mg/kg	0.016	0.055	0.055	2	B	12/2/2010 16:30	12/03/2010 20:29	NAH	EPA 6010C ^
Beryllium	0.69	mg/kg	0.0081	0.024	0.024	2		12/2/2010 16:30	12/03/2010 20:29	NAH	EPA 6010C ^
Cadmium	0.33	mg/kg	0.012	0.043	0.043	2		12/2/2010 16:30	12/03/2010 20:29	NAH	EPA 6010C ^
Calcium	5860	mg/kg	0.12	0.41	1.0	2	B	12/2/2010 16:30	12/03/2010 20:29	NAH	EPA 6010C ^
Chromium	95.2	mg/kg	0.039	0.13	0.13	2	B	12/2/2010 16:30	12/03/2010 20:29	NAH	EPA 6010C ^
Cobalt	9.6	mg/kg	0.031	0.10	0.10	2	B	12/2/2010 16:30	12/03/2010 20:29	NAH	EPA 6010C ^
Copper	11.8	mg/kg	0.12	0.41	0.41	2		12/2/2010 16:30	12/03/2010 20:29	NAH	EPA 6010C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 870194 Sample Description: DLASS-022-0001-SO Sampled: 11/9/2010 1220

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Iron	27600	mg/kg	0.61	2.0	2.0	2		12/2/2010 16:30	12/09/2010 20:00	NAH	EPA 6010C ^
Lead	24.5	mg/kg	0.081	0.29	0.29	2		12/2/2010 16:30	12/03/2010 20:29	NAH	EPA 6010C ^
Magnesium	2250	mg/kg	0.24	0.81	0.81	2		12/2/2010 16:30	12/09/2010 20:00	NAH	EPA 6010C ^
Manganese	1010	mg/kg	0.033	0.11	0.10	2		12/2/2010 16:30	12/09/2010 20:00	NAH	EPA 6010C ^
Nickel	17.4	mg/kg	0.037	0.12	0.12	2	B	12/2/2010 16:30	12/03/2010 20:29	NAH	EPA 6010C ^
Selenium	2.3	mg/kg	0.14	0.43	0.86	2	B	12/2/2010 16:30	12/03/2010 20:29	NAH	EPA 6010C ^
Silver	0.12	mg/kg	0.035	0.11	0.11	2		12/2/2010 16:30	12/03/2010 20:29	NAH	EPA 6010C ^
Thallium	0.90	mg/kg	0.081	0.29	0.29	2		12/2/2010 16:30	12/09/2010 20:00	NAH	EPA 6010C ^
Vanadium	21.8	mg/kg	0.022	0.069	0.069	2		12/2/2010 16:30	12/03/2010 20:29	NAH	EPA 6010C ^
Zinc	56.5	mg/kg	0.081	0.24	0.24	2		12/2/2010 16:30	12/03/2010 20:29	NAH	EPA 6010C ^
Potassium	1080	mg/kg	11	37	37	1		12/2/2010 16:30	12/03/2010 16:09	NAH	EPA 6010C ^
Sodium	55.0	mg/kg	4.1	13	13	1		12/2/2010 16:30	12/03/2010 16:09	NAH	EPA 6010C ^
Mercury	0.043	mg/kg	0.0024	0.0080	0.0080	1		12/7/2010 15:30	12/08/2010 14:27	GCE	EPA 7471A ^
Organic Results											
1,2,4-Trichlorobenzene	<21	ug/kg	21	70	410	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
1,2-Dichlorobenzene	<24	ug/kg	24	80	410	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
1,3-Dichlorobenzene	<20	ug/kg	20	68	410	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
1,4-Dichlorobenzene	<19	ug/kg	19	64	410	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
1-Methylnaphthalene	100	ug/kg	25	84	410	1	J	12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C
2,4,5-Trichlorophenol	<130	ug/kg	130	450	510	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
2,4,6-Trichlorophenol	<130	ug/kg	130	450	510	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
2,4-Dichlorophenol	<120	ug/kg	120	420	510	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
2,4-Dimethylphenol	<100	ug/kg	100	340	410	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
2,4-Dinitrophenol	<700	ug/kg	700	2300	2000	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
2,4-Dinitrotoluene	<24	ug/kg	24	80	410	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
2,6-Dichlorophenol	<140	ug/kg	140	490	510	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
2,6-Dinitrotoluene	<24	ug/kg	24	82	410	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
2-Chloronaphthalene	<23	ug/kg	23	77	410	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 870194 Sample Description: DLASS-022-0001-SO Sampled: 11/9/2010 1220

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2-Chlorophenol	<350	ug/kg	350	1100	510	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
2-Methylnaphthalene	140	ug/kg	25	84	410	1	J	12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
2-Methylphenol	<430	ug/kg	430	1400	1000	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
2-Nitroaniline	<23	ug/kg	23	79	410	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
2-Nitrophenol	<280	ug/kg	280	960	510	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
3 & 4-Methylphenol	<660	ug/kg	660	2200	2000	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
3,3'-Dichlorobenzidine	<150	ug/kg	150	500	510	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
3-Nitroaniline	<22	ug/kg	22	73	1000	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
4,6-Dinitro-2-methylphenol	<270	ug/kg	270	910	1000	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
4-Bromophenyl-phenyl ether	<25	ug/kg	25	84	410	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
4-Chloro-3-methylphenol	<390	ug/kg	390	1300	510	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
4-Chloroaniline	<40	ug/kg	40	130	410	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
4-Chlorophenyl-phenyl ether	<26	ug/kg	26	88	410	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
4-Nitroaniline	<30	ug/kg	30	100	1000	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
4-Nitrophenol	<410	ug/kg	410	1300	1000	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
Acenaphthene	<24	ug/kg	24	81	410	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
Acenaphthylene	<24	ug/kg	24	82	410	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
Acetophenone	<76	ug/kg	76	250	410	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
Aniline	<32	ug/kg	32	100	410	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C
Anthracene	<24	ug/kg	24	82	410	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
Azobenzene & 1,2-Diphenylhydra	<56	ug/kg	56	180	810	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
Benzidine	<970	ug/kg	970	3300	2000	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
Benzo(a)anthracene	100	ug/kg	25	85	410	1	J	12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
Benzo(a)pyrene	85	ug/kg	23	79	410	1	J	12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
Benzo(b)fluoranthene	160	ug/kg	25	86	410	1	J	12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
Benzo(g,h,i)perylene	52	ug/kg	22	74	410	1	J	12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
Benzo(k)fluoranthene	46	ug/kg	25	86	410	1	J	12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
Benzoic acid	420	ug/kg	300	1000	2000	1	J	12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
Benzyl alcohol	<84	ug/kg	84	280	1000	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 870194 Sample Description: DLASS-022-0001-SO Sampled: 11/9/2010 1220

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Bis(2-chloroethoxy)methane	<23	ug/kg	23	77	410	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
Bis(2-chloroethyl)ether	<25	ug/kg	25	85	410	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
Bis(2-chloroisopropyl)ether	<30	ug/kg	30	100	410	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
Bis(2-ethylhexyl)phthalate	110	ug/kg	88	290	1000	1	J	12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
Butylbenzylphthalate	<74	ug/kg	74	240	410	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
Carbazole	<28	ug/kg	28	96	410	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
Chrysene	100	ug/kg	25	85	410	1	J	12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
Di-n-butylphthalate	250	ug/kg	80	260	410	1	J	12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
Di-n-octylphthalate	<60	ug/kg	60	200	410	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
Dibenzo(a,h)anthracene	<22	ug/kg	22	76	410	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
Dibenzofuran	34	ug/kg	24	82	410	1	J	12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
Diethylphthalate	67	ug/kg	65	220	410	1	J	12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
Dimethylphthalate	<64	ug/kg	64	210	410	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
Fluoranthene	170	ug/kg	26	87	410	1	J	12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
Fluorene	<25	ug/kg	25	86	410	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
Hexachlorobenzene	<28	ug/kg	28	96	410	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
Hexachlorobutadiene	<63	ug/kg	63	210	410	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
Hexachlorocyclopentadiene	<53	ug/kg	53	170	410	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
Hexachloroethane	<34	ug/kg	34	110	410	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
Indeno(1,2,3-cd)pyrene	50	ug/kg	23	76	410	1	J	12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
Isophorone	<51	ug/kg	51	170	410	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
N-Nitroso-di-n-propylamine	<71	ug/kg	71	230	410	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
N-Nitrosodimethylamine	<79	ug/kg	79	260	410	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
N-Nitrosodiphenylamine & Diphn	<51	ug/kg	51	160	810	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
N-Nitrosopyrrolidine	<57	ug/kg	57	190	410	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
Naphthalene	96	ug/kg	21	72	410	1	J	12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
Nitrobenzene	<60	ug/kg	60	200	410	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
Pentachlorophenol	<240	ug/kg	240	810	1000	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
Phenanthrene	110	ug/kg	26	89	410	1	J	12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 870194 Sample Description: DLASS-022-0001-SO Sampled: 11/9/2010 1220

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Phenol	<160	ug/kg	160	540	510	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
Pyrene	140	ug/kg	26	87	410	1	J	12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
Pyridine	<40	ug/kg	40	130	410	1	Q	12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C ^
Surr: 2,4,6-Tribromophenol	80	% Recovery	35	125	35-125	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C
Surr: 2-Fluorobiphenyl	70	% Recovery	45	105	45-105	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C
Surr: 2-Fluorophenol	67	% Recovery	35	105	35-105	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C
Surr: Nitrobenzene-d5	63	% Recovery	35	100	35-100	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C
Surr: Phenol-d5	74	% Recovery	40	100	40-100	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C
Surr: Terphenyl-d14	75	% Recovery	30	125	30-125	1		12/3/2010 15:00	12/08/2010 21:59	RPN	EPA 8270C
Aroclor-1016	<10	ug/kg	10	35	51	1		12/3/2010 15:00	12/08/2010 15:31	JJY	EPA 8082A ^
Aroclor-1221	<20	ug/kg	20	67	51	1		12/3/2010 15:00	12/08/2010 15:31	JJY	EPA 8082A ^
Aroclor-1232	<27	ug/kg	27	91	51	1		12/3/2010 15:00	12/08/2010 15:31	JJY	EPA 8082A ^
Aroclor-1242	<29	ug/kg	29	97	51	1		12/3/2010 15:00	12/08/2010 15:31	JJY	EPA 8082A ^
Aroclor-1248	<29	ug/kg	29	98	51	1		12/3/2010 15:00	12/08/2010 15:31	JJY	EPA 8082A ^
Aroclor-1254	<23	ug/kg	23	77	51	1		12/3/2010 15:00	12/08/2010 15:31	JJY	EPA 8082A ^
Aroclor-1260	<12	ug/kg	12	39	51	1		12/3/2010 15:00	12/08/2010 15:31	JJY	EPA 8082A ^
Aroclor-1262	<21	ug/kg	21	72	51	1		12/3/2010 15:00	12/08/2010 15:31	JJY	EPA 8082A ^
Aroclor-1268	<28	ug/kg	28	93	51	1		12/3/2010 15:00	12/08/2010 15:31	JJY	EPA 8082A ^
Surr: DCBP	91	% Recovery	60	125	60-125	1		12/3/2010 15:00	12/08/2010 15:31	JJY	EPA 8082A
Nitroguanidine	0.67	mg/kg	0.059	0.21	0.16	1	P	12/6/2010 16:00	12/17/2010 02:38	RED	EPA 8330
1,2-Dinitrobenzene	143	% Recovery	50	150	50-150	1		12/6/2010 16:00	12/17/2010 02:38	RED	EPA 8330
1,3,5-Trinitrobenzene	<0.13	mg/kg	0.13	0.43	0.44	1		12/6/2010 17:15	12/14/2010 19:23	RED	EPA 8330B
1,3-Dinitrobenzene	<0.081	mg/kg	0.081	0.26	0.44	1		12/6/2010 17:15	12/14/2010 19:23	RED	EPA 8330B
2,4,6-Trinitrotoluene	<0.091	mg/kg	0.091	0.31	0.44	1		12/6/2010 17:15	12/14/2010 19:23	RED	EPA 8330B
2,4-Dinitrotoluene	<0.20	mg/kg	0.20	0.67	0.44	1		12/6/2010 17:15	12/14/2010 19:23	RED	EPA 8330B
2,6-Dinitrotoluene	<0.071	mg/kg	0.071	0.24	0.50	1		12/6/2010 17:15	12/14/2010 19:23	RED	EPA 8330B
2-Amino-4,6-dinitrotoluene	<0.050	mg/kg	0.050	0.18	0.44	1		12/6/2010 17:15	12/14/2010 19:23	RED	EPA 8330B
2-Nitrotoluene	<0.091	mg/kg	0.091	0.28	0.44	1		12/6/2010 17:15	12/14/2010 19:23	RED	EPA 8330B

Solid sample results reported on a Dry Weight Basis

CT LAB#: 870194 Sample Description: DLASS-022-0001-SO Sampled: 11/9/2010 1220

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
3,5-Dinitroaniline	<0.091	mg/kg	0.091	0.28	0.44	1		12/6/2010 17:15	12/14/2010 19:23	RED	EPA 8330B
3-Nitrotoluene	<0.071	mg/kg	0.071	0.24	0.44	1		12/6/2010 17:15	12/14/2010 19:23	RED	EPA 8330B
4-Amino-2,6-dinitrotoluene	<0.071	mg/kg	0.071	0.24	0.44	1		12/6/2010 17:15	12/14/2010 19:23	RED	EPA 8330B
4-Nitrotoluene	<0.071	mg/kg	0.071	0.24	0.50	1		12/6/2010 17:15	12/14/2010 19:23	RED	EPA 8330B
HMX	<0.12	mg/kg	0.12	0.39	0.44	1		12/6/2010 17:15	12/14/2010 19:23	RED	EPA 8330B
Nitrobenzene	<0.040	mg/kg	0.040	0.14	0.44	1		12/6/2010 17:15	12/14/2010 19:23	RED	EPA 8330B
Nitroglycerin	<0.50	mg/kg	0.50	1.8	1.5	1		12/6/2010 17:15	12/14/2010 19:23	RED	EPA 8330B
PETN	<0.50	mg/kg	0.50	1.8	1.5	1		12/6/2010 17:15	12/14/2010 19:23	RED	EPA 8330B
RDX	<0.16	mg/kg	0.16	0.52	0.44	1		12/6/2010 17:15	12/14/2010 19:23	RED	EPA 8330B
Tetryl	<0.091	mg/kg	0.091	0.30	0.44	1		12/6/2010 17:15	12/14/2010 19:23	RED	EPA 8330B
1,2-Dinitrobenzene	112	% Recovery	75	127	75-127	1		12/6/2010 17:15	12/14/2010 19:23	RED	EPA 8330B
Sub Lab Results											
Asbestos	ATTACHED					1			11/17/2010 00:00	PML	
Pesticides	ATTACHED					1			12/17/2010 00:00	PML	SW8081

CT LAB#: 870195 Sample Description: DLASS-022-0003-SO Sampled: 11/9/2010 1230

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results											
Solids, Percent	98.1	%				1			12/02/2010 17:00	KMB	EPA 8000C
Nitrocellulose	<7.0	mg/kg	7.0	23	7.0	1		12/8/2010 08:00	12/11/2010 21:26	BMS	EPA 9056M
Hexavalent Chromium	<1.9	mg/kg	1.9	6.3	6.5	1		12/8/2010 12:00	12/08/2010 16:00	CES	EPA 3060A/7196A ^
Metals Results											
Aluminum	11300	mg/kg	0.082	0.24	0.24	2	B	12/2/2010 16:30	12/03/2010 20:35	NAH	EPA 6010C ^
Antimony	2.7	mg/kg	0.16	0.55	0.55	2		12/2/2010 16:30	12/03/2010 20:35	NAH	EPA 6010C ^
Arsenic	10.3	mg/kg	0.27	0.92	0.92	2		12/2/2010 16:30	12/03/2010 20:35	NAH	EPA 6010C ^
Barium	111	mg/kg	0.016	0.055	0.055	2	B	12/2/2010 16:30	12/03/2010 20:35	NAH	EPA 6010C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 870195 Sample Description: DLASS-022-0003-SO Sampled: 11/9/2010 1230

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Beryllium	0.74	mg/kg	0.0082	0.024	0.024	2		12/2/2010 16:30	12/03/2010 20:35	NAH	EPA 6010C ^
Cadmium	0.27	mg/kg	0.012	0.043	0.043	2		12/2/2010 16:30	12/03/2010 20:35	NAH	EPA 6010C ^
Calcium	8660	mg/kg	0.12	0.41	1.0	2	B	12/2/2010 16:30	12/03/2010 20:35	NAH	EPA 6010C ^
Chromium	111	mg/kg	0.039	0.13	0.13	2	B	12/2/2010 16:30	12/03/2010 20:35	NAH	EPA 6010C ^
Cobalt	9.1	mg/kg	0.031	0.10	0.10	2	B	12/2/2010 16:30	12/03/2010 20:35	NAH	EPA 6010C ^
Copper	12.5	mg/kg	0.12	0.41	0.41	2		12/2/2010 16:30	12/03/2010 20:35	NAH	EPA 6010C ^
Iron	25800	mg/kg	0.61	2.0	2.0	2		12/2/2010 16:30	12/09/2010 20:05	NAH	EPA 6010C ^
Lead	25.8	mg/kg	0.082	0.29	0.29	2		12/2/2010 16:30	12/03/2010 20:35	NAH	EPA 6010C ^
Magnesium	2560	mg/kg	0.24	0.82	0.82	2		12/2/2010 16:30	12/09/2010 20:05	NAH	EPA 6010C ^
Manganese	973	mg/kg	0.033	0.11	0.10	2		12/2/2010 16:30	12/09/2010 20:05	NAH	EPA 6010C ^
Nickel	17.7	mg/kg	0.037	0.12	0.12	2	B	12/2/2010 16:30	12/03/2010 20:35	NAH	EPA 6010C ^
Selenium	1.5	mg/kg	0.14	0.43	0.86	2		12/2/2010 16:30	12/09/2010 20:05	NAH	EPA 6010C ^
Silver	0.061	mg/kg	0.035	0.11	0.11	2	J V	12/2/2010 16:30	12/03/2010 20:35	NAH	EPA 6010C ^
Thallium	0.70	mg/kg	0.082	0.29	0.29	2		12/2/2010 16:30	12/09/2010 20:05	NAH	EPA 6010C ^
Vanadium	21.4	mg/kg	0.022	0.069	0.069	2		12/2/2010 16:30	12/03/2010 20:35	NAH	EPA 6010C ^
Zinc	54.5	mg/kg	0.082	0.24	0.24	2		12/2/2010 16:30	12/03/2010 20:35	NAH	EPA 6010C ^
Potassium	1100	mg/kg	11	37	37	1		12/2/2010 16:30	12/03/2010 16:12	NAH	EPA 6010C ^
Sodium	67.8	mg/kg	4.1	13	13	1		12/2/2010 16:30	12/03/2010 16:12	NAH	EPA 6010C ^
Mercury	0.042	mg/kg	0.0024	0.0081	0.0081	1		12/7/2010 15:30	12/08/2010 14:29	GCE	EPA 7471A ^
Organic Results											
1,2,4-Trichlorobenzene	<21	ug/kg	21	70	410	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
1,2-Dichlorobenzene	<24	ug/kg	24	80	410	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
1,3-Dichlorobenzene	<20	ug/kg	20	68	410	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
1,4-Dichlorobenzene	<19	ug/kg	19	64	410	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
1-Methylnaphthalene	120	ug/kg	25	85	410	1	J	12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C
2,4,5-Trichlorophenol	<130	ug/kg	130	450	510	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
2,4,6-Trichlorophenol	<130	ug/kg	130	450	510	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
2,4-Dichlorophenol	<120	ug/kg	120	420	510	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 870195 Sample Description: DLASS-022-0003-SO Sampled: 11/9/2010 1230

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,4-Dimethylphenol	<100	ug/kg	100	340	410	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
2,4-Dinitrophenol	<700	ug/kg	700	2300	2000	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
2,4-Dinitrotoluene	<24	ug/kg	24	80	410	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
2,6-Dichlorophenol	<140	ug/kg	140	490	510	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
2,6-Dinitrotoluene	<24	ug/kg	24	82	410	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
2-Chloronaphthalene	<23	ug/kg	23	77	410	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
2-Chlorophenol	<350	ug/kg	350	1100	510	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
2-Methylnaphthalene	160	ug/kg	25	85	410	1	J	12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
2-Methylphenol	<430	ug/kg	430	1400	1000	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
2-Nitroaniline	<23	ug/kg	23	79	410	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
2-Nitrophenol	<290	ug/kg	290	960	510	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
3 & 4-Methylphenol	<660	ug/kg	660	2200	2000	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
3,3'-Dichlorobenzidine	<150	ug/kg	150	500	510	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
3-Nitroaniline	<22	ug/kg	22	73	1000	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
4,6-Dinitro-2-methylphenol	<270	ug/kg	270	920	1000	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
4-Bromophenyl-phenyl ether	<25	ug/kg	25	85	410	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
4-Chloro-3-methylphenol	<390	ug/kg	390	1300	510	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
4-Chloroaniline	<40	ug/kg	40	130	410	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
4-Chlorophenyl-phenyl ether	<26	ug/kg	26	89	410	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
4-Nitroaniline	<31	ug/kg	31	100	1000	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
4-Nitrophenol	<410	ug/kg	410	1300	1000	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
Acenaphthene	<24	ug/kg	24	81	410	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
Acenaphthylene	<24	ug/kg	24	82	410	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
Acetophenone	<76	ug/kg	76	250	410	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
Aniline	<32	ug/kg	32	100	410	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C
Anthracene	<24	ug/kg	24	82	410	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
Azobenzene & 1,2-Diphenylhydra	<56	ug/kg	56	180	810	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
Benzidine	<970	ug/kg	970	3300	2000	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
Benzo(a)anthracene	110	ug/kg	25	86	410	1	J	12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 870195 Sample Description: DLASS-022-0003-SO Sampled: 11/9/2010 1230

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Benzo(a)pyrene	87	ug/kg	23	79	410	1	J	12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
Benzo(b)fluoranthene	170	ug/kg	25	87	410	1	J	12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
Benzo(g,h,i)perylene	56	ug/kg	22	74	410	1	J	12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
Benzo(k)fluoranthene	73	ug/kg	25	87	410	1	J	12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
Benzoic acid	430	ug/kg	300	1000	2000	1	J	12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
Benzyl alcohol	<85	ug/kg	85	290	1000	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
Bis(2-chloroethoxy)methane	<23	ug/kg	23	77	410	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
Bis(2-chloroethyl)ether	<25	ug/kg	25	86	410	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
Bis(2-chloroisopropyl)ether	<31	ug/kg	31	100	410	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
Bis(2-ethylhexyl)phthalate	130	ug/kg	89	300	1000	1	J	12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
Butylbenzylphthalate	<74	ug/kg	74	240	410	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
Carbazole	<29	ug/kg	29	96	410	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
Chrysene	120	ug/kg	25	86	410	1	J	12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
Di-n-butylphthalate	320	ug/kg	80	260	410	1	J	12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
Di-n-octylphthalate	<60	ug/kg	60	200	410	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
Dibenzo(a,h)anthracene	<22	ug/kg	22	76	410	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
Dibenzofuran	40	ug/kg	24	82	410	1	J	12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
Diethylphthalate	89	ug/kg	65	220	410	1	J	12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
Dimethylphthalate	<64	ug/kg	64	210	410	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
Fluoranthene	200	ug/kg	26	88	410	1	J	12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
Fluorene	<25	ug/kg	25	87	410	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
Hexachlorobenzene	<29	ug/kg	29	96	410	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
Hexachlorobutadiene	<63	ug/kg	63	210	410	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
Hexachlorocyclopentadiene	<53	ug/kg	53	170	410	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
Hexachloroethane	<34	ug/kg	34	110	410	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
Indeno(1,2,3-cd)pyrene	50	ug/kg	23	76	410	1	J	12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
Isophorone	<51	ug/kg	51	170	410	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
N-Nitroso-di-n-propylamine	<71	ug/kg	71	230	410	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
N-Nitrosodimethylamine	<79	ug/kg	79	260	410	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 870195 Sample Description: DLASS-022-0003-SO Sampled: 11/9/2010 1230

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
N-Nitrosodiphenylamine & Diphn	<51	ug/kg	51	160	810	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
N-Nitrosopyrrolidine	<57	ug/kg	57	190	410	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
Naphthalene	110	ug/kg	21	72	410	1	J	12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
Nitrobenzene	<60	ug/kg	60	200	410	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
Pentachlorophenol	<240	ug/kg	240	810	1000	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
Phenanthrene	140	ug/kg	26	90	410	1	J	12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
Phenol	<160	ug/kg	160	540	510	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
Pyrene	160	ug/kg	26	88	410	1	J	12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
Pyridine	<40	ug/kg	40	130	410	1	Q	12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C ^
Surr: 2,4,6-Tribromophenol	81	% Recovery	35	125	35-125	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C
Surr: 2-Fluorobiphenyl	72	% Recovery	45	105	45-105	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C
Surr: 2-Fluorophenol	69	% Recovery	35	105	35-105	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C
Surr: Nitrobenzene-d5	70	% Recovery	35	100	35-100	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C
Surr: Phenol-d5	71	% Recovery	40	100	40-100	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C
Surr: Terphenyl-d14	76	% Recovery	30	125	30-125	1		12/3/2010 15:00	12/08/2010 22:19	RPN	EPA 8270C
Aroclor-1016	<10	ug/kg	10	36	51	1		12/3/2010 15:00	12/08/2010 15:47	JJY	EPA 8082A ^
Aroclor-1221	<20	ug/kg	20	67	51	1		12/3/2010 15:00	12/08/2010 15:47	JJY	EPA 8082A ^
Aroclor-1232	<27	ug/kg	27	91	51	1		12/3/2010 15:00	12/08/2010 15:47	JJY	EPA 8082A ^
Aroclor-1242	<29	ug/kg	29	97	51	1		12/3/2010 15:00	12/08/2010 15:47	JJY	EPA 8082A ^
Aroclor-1248	<29	ug/kg	29	98	51	1		12/3/2010 15:00	12/08/2010 15:47	JJY	EPA 8082A ^
Aroclor-1254	<23	ug/kg	23	77	51	1		12/3/2010 15:00	12/08/2010 15:47	JJY	EPA 8082A ^
Aroclor-1260	<12	ug/kg	12	39	51	1		12/3/2010 15:00	12/08/2010 15:47	JJY	EPA 8082A ^
Aroclor-1262	<21	ug/kg	21	72	51	1		12/3/2010 15:00	12/08/2010 15:47	JJY	EPA 8082A ^
Aroclor-1268	<28	ug/kg	28	93	51	1		12/3/2010 15:00	12/08/2010 15:47	JJY	EPA 8082A ^
Surr: DCBP	89	% Recovery	60	125	60-125	1		12/3/2010 15:00	12/08/2010 15:47	JJY	EPA 8082A
Nitroguanidine	0.63	mg/kg	0.059	0.21	0.16	1	P	12/6/2010 16:00	12/17/2010 03:06	RED	EPA 8330
1,2-Dinitrobenzene	136	% Recovery	50	150	50-150	1		12/6/2010 16:00	12/17/2010 03:06	RED	EPA 8330
1,3,5-Trinitrobenzene	<0.13	mg/kg	0.13	0.43	0.44	1		12/6/2010 17:15	12/14/2010 20:09	RED	EPA 8330B

Solid sample results reported on a Dry Weight Basis

CT LAB#: 870195 Sample Description: DLASS-022-0003-SO Sampled: 11/9/2010 1230

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,3-Dinitrobenzene	<0.081	mg/kg	0.081	0.26	0.44	1		12/6/2010 17:15	12/14/2010 20:09	RED	EPA 8330B
2,4,6-Trinitrotoluene	<0.091	mg/kg	0.091	0.31	0.44	1		12/6/2010 17:15	12/14/2010 20:09	RED	EPA 8330B
2,4-Dinitrotoluene	<0.20	mg/kg	0.20	0.67	0.44	1		12/6/2010 17:15	12/14/2010 20:09	RED	EPA 8330B
2,6-Dinitrotoluene	<0.071	mg/kg	0.071	0.24	0.50	1		12/6/2010 17:15	12/14/2010 20:09	RED	EPA 8330B
2-Amino-4,6-dinitrotoluene	<0.050	mg/kg	0.050	0.18	0.44	1		12/6/2010 17:15	12/14/2010 20:09	RED	EPA 8330B
2-Nitrotoluene	<0.091	mg/kg	0.091	0.28	0.44	1		12/6/2010 17:15	12/14/2010 20:09	RED	EPA 8330B
3,5-Dinitroaniline	<0.091	mg/kg	0.091	0.28	0.44	1		12/6/2010 17:15	12/14/2010 20:09	RED	EPA 8330B
3-Nitrotoluene	<0.071	mg/kg	0.071	0.24	0.44	1		12/6/2010 17:15	12/14/2010 20:09	RED	EPA 8330B
4-Amino-2,6-dinitrotoluene	<0.071	mg/kg	0.071	0.24	0.44	1		12/6/2010 17:15	12/14/2010 20:09	RED	EPA 8330B
4-Nitrotoluene	<0.071	mg/kg	0.071	0.24	0.50	1		12/6/2010 17:15	12/14/2010 20:09	RED	EPA 8330B
HMX	<0.12	mg/kg	0.12	0.39	0.44	1		12/6/2010 17:15	12/14/2010 20:09	RED	EPA 8330B
Nitrobenzene	<0.040	mg/kg	0.040	0.14	0.44	1		12/6/2010 17:15	12/14/2010 20:09	RED	EPA 8330B
Nitroglycerin	<0.50	mg/kg	0.50	1.8	1.5	1		12/6/2010 17:15	12/14/2010 20:09	RED	EPA 8330B
PETN	<0.50	mg/kg	0.50	1.8	1.5	1		12/6/2010 17:15	12/14/2010 20:09	RED	EPA 8330B
RDX	<0.16	mg/kg	0.16	0.52	0.44	1		12/6/2010 17:15	12/14/2010 20:09	RED	EPA 8330B
Tetryl	<0.091	mg/kg	0.091	0.30	0.44	1		12/6/2010 17:15	12/14/2010 20:09	RED	EPA 8330B
1,2-Dinitrobenzene	120	% Recovery	75	127	75-127	1		12/6/2010 17:15	12/14/2010 20:09	RED	EPA 8330B

Sub Lab Results

Asbestos	ATTACHED					1			11/17/2010 00:00	PML	
Pesticides	ATTACHED					1			12/17/2010 00:00	PML	SW8081

CT LAB#: 870196 Sample Description: DLASS-008-0001-SO Sampled: 11/9/2010 1100

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results											
Solids, Percent	98.1	%				1			12/02/2010 17:00	KMB	EPA 8000C
Hexavalent Chromium	<1.9	mg/kg	1.9	6.3	6.5	1		12/8/2010 12:00	12/08/2010 16:00	CES	EPA 3060A/7196A ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 870196 Sample Description: DLASS-008-0001-SO Sampled: 11/9/2010 1100

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Metals Results											
Aluminum	10300	mg/kg	0.082	0.24	0.24	2	B	12/2/2010 16:30	12/03/2010 20:41	NAH	EPA 6010C ^
Antimony	10.7	mg/kg	0.16	0.55	0.55	2		12/2/2010 16:30	12/03/2010 20:41	NAH	EPA 6010C ^
Arsenic	9.7	mg/kg	0.27	0.92	0.92	2		12/2/2010 16:30	12/03/2010 20:41	NAH	EPA 6010C ^
Barium	95.8	mg/kg	0.016	0.055	0.055	2	B	12/2/2010 16:30	12/03/2010 20:41	NAH	EPA 6010C ^
Beryllium	0.70	mg/kg	0.0082	0.024	0.024	2		12/2/2010 16:30	12/03/2010 20:41	NAH	EPA 6010C ^
Cadmium	0.23	mg/kg	0.012	0.043	0.043	2		12/2/2010 16:30	12/03/2010 20:41	NAH	EPA 6010C ^
Calcium	7650	mg/kg	0.12	0.41	1.0	2	B	12/2/2010 16:30	12/03/2010 20:41	NAH	EPA 6010C ^
Chromium	115	mg/kg	0.039	0.13	0.13	2	B	12/2/2010 16:30	12/03/2010 20:41	NAH	EPA 6010C ^
Cobalt	9.3	mg/kg	0.031	0.10	0.10	2	B	12/2/2010 16:30	12/03/2010 20:41	NAH	EPA 6010C ^
Copper	13.4	mg/kg	0.12	0.41	0.41	2		12/2/2010 16:30	12/03/2010 20:41	NAH	EPA 6010C ^
Iron	31700	mg/kg	0.61	2.0	2.0	2		12/2/2010 16:30	12/09/2010 20:11	NAH	EPA 6010C ^
Lead	20.7	mg/kg	0.082	0.29	0.29	2		12/2/2010 16:30	12/03/2010 20:41	NAH	EPA 6010C ^
Magnesium	2910	mg/kg	0.24	0.82	0.82	2		12/2/2010 16:30	12/09/2010 20:11	NAH	EPA 6010C ^
Manganese	1190	mg/kg	0.033	0.11	0.10	2		12/2/2010 16:30	12/09/2010 20:11	NAH	EPA 6010C ^
Nickel	21.3	mg/kg	0.037	0.12	0.12	2	B	12/2/2010 16:30	12/03/2010 20:41	NAH	EPA 6010C ^
Selenium	0.63	mg/kg	0.14	0.43	0.86	2	J V	12/2/2010 16:30	12/09/2010 20:11	NAH	EPA 6010C ^
Silver	<0.035	mg/kg	0.035	0.11	0.11	2	V	12/2/2010 16:30	12/03/2010 20:41	NAH	EPA 6010C ^
Thallium	0.72	mg/kg	0.082	0.29	0.29	2		12/2/2010 16:30	12/09/2010 20:11	NAH	EPA 6010C ^
Vanadium	19.4	mg/kg	0.022	0.069	0.069	2		12/2/2010 16:30	12/03/2010 20:41	NAH	EPA 6010C ^
Zinc	64.2	mg/kg	0.082	0.24	0.24	2		12/2/2010 16:30	12/03/2010 20:41	NAH	EPA 6010C ^
Potassium	1050	mg/kg	11	37	37	1		12/2/2010 16:30	12/03/2010 16:14	NAH	EPA 6010C ^
Sodium	62.4	mg/kg	4.1	13	13	1		12/2/2010 16:30	12/03/2010 16:14	NAH	EPA 6010C ^
Mercury	0.040	mg/kg	0.0024	0.0081	0.0081	1		12/7/2010 15:30	12/08/2010 14:31	GCE	EPA 7471A ^
Sub Lab Results											
Asbestos	ATTACHED					1			11/17/2010 00:00	PML	

Solid sample results reported on a Dry Weight Basis

CT LAB#: 870197 Sample Description: DLASS-021-0001-SO Sampled: 11/9/2010 1030

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results											
Solids, Percent	97.9	%				1			12/02/2010 17:00	KMB	EPA 8000C
Hexavalent Chromium	<1.9	mg/kg	1.9	6.3	6.5	1		12/8/2010 12:00	12/08/2010 16:00	CES	EPA 3060A/7196A ^
Metals Results											
Aluminum	14100	mg/kg	0.082	0.25	0.25	2	B	12/2/2010 16:30	12/03/2010 21:08	NAH	EPA 6010C ^
Antimony	3.6	mg/kg	0.16	0.55	0.55	2		12/2/2010 16:30	12/03/2010 21:08	NAH	EPA 6010C ^
Arsenic	9.3	mg/kg	0.27	0.92	0.92	2		12/2/2010 16:30	12/03/2010 21:08	NAH	EPA 6010C ^
Barium	172	mg/kg	0.016	0.055	0.055	2	B	12/2/2010 16:30	12/03/2010 21:08	NAH	EPA 6010C ^
Beryllium	1.2	mg/kg	0.0082	0.025	0.025	2	B	12/2/2010 16:30	12/03/2010 21:08	NAH	EPA 6010C ^
Cadmium	0.26	mg/kg	0.012	0.043	0.043	2		12/2/2010 16:30	12/03/2010 21:08	NAH	EPA 6010C ^
Calcium	29000	mg/kg	0.12	0.41	1.0	2	B	12/2/2010 16:30	12/03/2010 21:08	NAH	EPA 6010C ^
Chromium	118	mg/kg	0.039	0.13	0.13	2	B	12/2/2010 16:30	12/03/2010 21:08	NAH	EPA 6010C ^
Cobalt	8.1	mg/kg	0.031	0.10	0.10	2	B	12/2/2010 16:30	12/03/2010 21:08	NAH	EPA 6010C ^
Copper	11.5	mg/kg	0.12	0.41	0.41	2		12/2/2010 16:30	12/03/2010 21:08	NAH	EPA 6010C ^
Iron	20100	mg/kg	0.61	2.0	2.0	2	B	12/2/2010 16:30	12/03/2010 21:08	NAH	EPA 6010C ^
Lead	24.8	mg/kg	0.082	0.29	0.29	2		12/2/2010 16:30	12/03/2010 21:08	NAH	EPA 6010C ^
Magnesium	6790	mg/kg	0.25	0.82	0.82	2		12/2/2010 16:30	12/09/2010 20:16	NAH	EPA 6010C ^
Manganese	2020	mg/kg	0.033	0.11	0.10	2	B	12/2/2010 16:30	12/03/2010 21:08	NAH	EPA 6010C ^
Nickel	21.8	mg/kg	0.037	0.12	0.12	2	B	12/2/2010 16:30	12/03/2010 21:08	NAH	EPA 6010C ^
Selenium	1.1	mg/kg	0.14	0.43	0.86	2		12/2/2010 16:30	12/09/2010 20:16	NAH	EPA 6010C ^
Silver	0.18	mg/kg	0.035	0.11	0.11	2		12/2/2010 16:30	12/03/2010 21:08	NAH	EPA 6010C ^
Thallium	1.2	mg/kg	0.082	0.29	0.29	2		12/2/2010 16:30	12/09/2010 20:16	NAH	EPA 6010C ^
Vanadium	18.2	mg/kg	0.022	0.069	0.069	2		12/2/2010 16:30	12/03/2010 21:08	NAH	EPA 6010C ^
Zinc	58.7	mg/kg	0.082	0.25	0.25	2		12/2/2010 16:30	12/03/2010 21:08	NAH	EPA 6010C ^
Potassium	1400	mg/kg	11	37	37	1		12/2/2010 16:30	12/03/2010 16:17	NAH	EPA 6010C ^
Sodium	148	mg/kg	4.1	13	13	1		12/2/2010 16:30	12/03/2010 16:17	NAH	EPA 6010C ^
Mercury	0.035	mg/kg	0.0025	0.0081	0.0081	1		12/7/2010 15:30	12/08/2010 14:33	GCE	EPA 7471A ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 870197 Sample Description: DLASS-021-0001-SO Sampled: 11/9/2010 1030

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Sub Lab Results											
Asbestos	ATTACHED					1			11/17/2010 00:00	PML	

CT LAB#: 870200 Sample Description: DLASS-005-0001-SO Sampled: 11/9/2010 0920

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results											
Solids, Percent	97.3	%				1			11/22/2010 12:30	JTG	EPA 8000C
Hexavalent Chromium	<2.0	mg/kg	2.0	6.4	6.6	1		11/23/2010 08:30	11/23/2010 14:30	JTG	EPA 3060A/7196A ^
Metals Results											
Aluminum	9660	mg/kg	0.082	0.25	0.25	2		11/18/2010 17:30	11/19/2010 20:18	NAH	EPA 6010C ^
Antimony	550	mg/kg	0.16	0.55	0.55	2		11/18/2010 17:30	11/19/2010 20:18	NAH	EPA 6010C ^
Arsenic	11.9	mg/kg	0.27	0.92	0.92	2		11/18/2010 17:30	11/19/2010 20:18	NAH	EPA 6010C ^
Barium	131	mg/kg	0.016	0.055	0.055	2	B	11/18/2010 17:30	11/19/2010 20:18	NAH	EPA 6010C ^
Beryllium	0.99	mg/kg	0.0082	0.025	0.025	2		11/18/2010 17:30	11/19/2010 20:18	NAH	EPA 6010C ^
Cadmium	1.1	mg/kg	0.012	0.043	0.043	2		11/18/2010 17:30	11/19/2010 20:18	NAH	EPA 6010C ^
Calcium	18500	mg/kg	0.31	1.0	2.6	5		11/18/2010 17:30	11/29/2010 15:59	NAH	EPA 6010C ^
Chromium	39.1	mg/kg	0.098	0.32	0.32	5		11/18/2010 17:30	11/29/2010 15:59	NAH	EPA 6010C ^
Cobalt	11.3	mg/kg	0.077	0.25	0.25	5		11/18/2010 17:30	11/29/2010 15:59	NAH	EPA 6010C ^
Copper	17.7	mg/kg	0.12	0.41	0.41	2	B	11/18/2010 17:30	11/19/2010 20:18	NAH	EPA 6010C ^
Iron	23900	mg/kg	0.62	2.1	2.1	2		11/18/2010 17:30	11/19/2010 20:18	NAH	EPA 6010C ^
Lead	132	mg/kg	0.082	0.29	0.29	2		11/18/2010 17:30	11/19/2010 20:18	NAH	EPA 6010C ^
Magnesium	4460	mg/kg	0.62	2.1	2.1	5		11/18/2010 17:30	11/29/2010 15:59	NAH	EPA 6010C ^
Manganese	1290	mg/kg	0.033	0.11	0.10	2		11/18/2010 17:30	11/19/2010 20:18	NAH	EPA 6010C ^
Nickel	30.8	mg/kg	0.092	0.31	0.31	5		11/18/2010 17:30	11/29/2010 15:59	NAH	EPA 6010C ^
Selenium	0.65	mg/kg	0.14	0.43	0.86	2	J	11/18/2010 17:30	11/19/2010 20:18	NAH	EPA 6010C ^
Silver	0.20	mg/kg	0.035	0.12	0.12	2		11/18/2010 17:30	11/19/2010 20:18	NAH	EPA 6010C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 870200 Sample Description: DLASS-005-0001-SO Sampled: 11/9/2010 0920

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Thallium	0.80	mg/kg	0.21	0.72	0.72	5		11/18/2010 17:30	11/29/2010 15:59	NAH	EPA 6010C ^
Vanadium	17.4	mg/kg	0.023	0.070	0.070	2		11/18/2010 17:30	11/19/2010 20:18	NAH	EPA 6010C ^
Zinc	75.5	mg/kg	0.082	0.25	0.25	2		11/18/2010 17:30	11/19/2010 20:18	NAH	EPA 6010C ^
Potassium	745	mg/kg	11	37	37	1		11/18/2010 17:30	11/22/2010 07:46	NAH	EPA 6010C ^
Sodium	91.2	mg/kg	4.1	13	13	1		11/18/2010 17:30	11/22/2010 07:46	NAH	EPA 6010C ^
Mercury	0.089	mg/kg	0.0025	0.0081	0.0081	1		11/23/2010 15:30	11/24/2010 09:44	GCE	EPA 7471A ^
Sub Lab Results											
Asbestos	ATTACHED					1			11/17/2010 00:00	PML	

CT LAB#: 870201 Sample Description: DLASS-014-0001-SO Sampled: 11/9/2010 1525

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results											
Solids, Percent	96.9	%				1			11/22/2010 12:30	JTG	EPA 8000C
Nitrocellulose	<7.0	mg/kg	7.0	23	7.0	1		12/8/2010 08:00	12/11/2010 21:41	BMS	EPA 9056M
Hexavalent Chromium	<2.0	mg/kg	2.0	6.4	6.6	1	M	11/23/2010 08:30	11/23/2010 14:30	JTG	EPA 3060A/7196A ^
Metals Results											
Aluminum	10200	mg/kg	0.083	0.25	0.25	2		11/18/2010 17:30	11/19/2010 20:24	NAH	EPA 6010C ^
Antimony	2.4	mg/kg	0.17	0.56	0.56	2	Y	11/18/2010 17:30	11/19/2010 20:24	NAH	EPA 6010C ^
Arsenic	10.8	mg/kg	0.27	0.93	0.93	2		11/18/2010 17:30	11/19/2010 20:24	NAH	EPA 6010C ^
Barium	94.4	mg/kg	0.017	0.056	0.056	2	B	11/18/2010 17:30	11/19/2010 20:24	NAH	EPA 6010C ^
Beryllium	0.63	mg/kg	0.0083	0.025	0.025	2		11/18/2010 17:30	11/19/2010 20:24	NAH	EPA 6010C ^
Cadmium	1.1	mg/kg	0.012	0.043	0.043	2		11/18/2010 17:30	11/19/2010 20:24	NAH	EPA 6010C ^
Calcium	2880	mg/kg	0.31	1.0	2.6	5		11/18/2010 17:30	11/29/2010 16:04	NAH	EPA 6010C ^
Chromium	156	mg/kg	0.098	0.33	0.33	5		11/18/2010 17:30	11/29/2010 16:04	NAH	EPA 6010C ^
Cobalt	10.9	mg/kg	0.077	0.25	0.25	5		11/18/2010 17:30	11/29/2010 16:04	NAH	EPA 6010C ^
Copper	14.6	mg/kg	0.12	0.41	0.41	2	B	11/18/2010 17:30	11/19/2010 20:24	NAH	EPA 6010C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 870201 Sample Description: DLASS-014-0001-SO Sampled: 11/9/2010 1525

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Iron	22500	mg/kg	0.62	2.1	2.1	2	M	11/18/2010 17:30	11/19/2010 20:24	NAH	EPA 6010C ^
Lead	30.4	mg/kg	0.083	0.29	0.29	2		11/18/2010 17:30	11/19/2010 20:24	NAH	EPA 6010C ^
Magnesium	2540	mg/kg	0.62	2.1	2.1	5		11/18/2010 17:30	11/29/2010 16:04	NAH	EPA 6010C ^
Manganese	738	mg/kg	0.033	0.11	0.10	2		11/18/2010 17:30	11/19/2010 20:24	NAH	EPA 6010C ^
Nickel	20.6	mg/kg	0.093	0.31	0.31	5		11/18/2010 17:30	11/29/2010 16:04	NAH	EPA 6010C ^
Selenium	0.87	mg/kg	0.14	0.43	0.87	2	V	11/18/2010 17:30	11/19/2010 20:24	NAH	EPA 6010C ^
Silver	0.15	mg/kg	0.035	0.12	0.12	2	M	11/18/2010 17:30	11/19/2010 20:24	NAH	EPA 6010C ^
Thallium	0.92	mg/kg	0.21	0.72	0.72	5	Y	11/18/2010 17:30	11/29/2010 16:04	NAH	EPA 6010C ^
Vanadium	22.8	mg/kg	0.023	0.070	0.070	2		11/18/2010 17:30	11/19/2010 20:24	NAH	EPA 6010C ^
Zinc	47.6	mg/kg	0.083	0.25	0.25	2		11/18/2010 17:30	11/19/2010 20:24	NAH	EPA 6010C ^
Potassium	970	mg/kg	11	37	37	1		11/18/2010 17:30	11/22/2010 07:48	NAH	EPA 6010C ^
Sodium	54.7	mg/kg	4.1	13	13	1		11/18/2010 17:30	11/22/2010 07:48	NAH	EPA 6010C ^
Mercury	0.040	mg/kg	0.0025	0.0082	0.0082	1	M	11/23/2010 15:30	11/24/2010 09:46	GCE	EPA 7471A ^
Organic Results											
1,2,4-Trichlorobenzene	<22	ug/kg	22	71	410	1		11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
1,2-Dichlorobenzene	<25	ug/kg	25	82	410	1		11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
1,3-Dichlorobenzene	<21	ug/kg	21	69	410	1		11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
1,4-Dichlorobenzene	<20	ug/kg	20	65	410	1		11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
1-Methylnaphthalene	29	ug/kg	26	86	410	1	J	11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C
2,4,5-Trichlorophenol	<130	ug/kg	130	460	520	1		11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
2,4,6-Trichlorophenol	<130	ug/kg	130	460	520	1		11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
2,4-Dichlorophenol	<120	ug/kg	120	420	520	1		11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
2,4-Dimethylphenol	<100	ug/kg	100	340	410	1		11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
2,4-Dinitrophenol	<710	ug/kg	710	2400	2100	1		11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
2,4-Dinitrotoluene	<25	ug/kg	25	82	410	1		11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
2,6-Dichlorophenol	<150	ug/kg	150	500	520	1		11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
2,6-Dinitrotoluene	<25	ug/kg	25	84	410	1		11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
2-Chloronaphthalene	<24	ug/kg	24	79	410	1		11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 870201 Sample Description: DLASS-014-0001-SO Sampled: 11/9/2010 1525

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2-Chlorophenol	<350	ug/kg	350	1100	520	1		11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
2-Methylnaphthalene	35	ug/kg	26	86	410	1	J	11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
2-Methylphenol	<440	ug/kg	440	1500	1000	1		11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
2-Nitroaniline	<24	ug/kg	24	81	410	1		11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
2-Nitrophenol	<290	ug/kg	290	970	520	1		11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
3 & 4-Methylphenol	<670	ug/kg	670	2300	2100	1		11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
3,3'-Dichlorobenzidine	<160	ug/kg	160	510	520	1	M	11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
3-Nitroaniline	<23	ug/kg	23	75	1000	1	M	11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
4,6-Dinitro-2-methylphenol	<280	ug/kg	280	930	1000	1		11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
4-Bromophenyl-phenyl ether	<26	ug/kg	26	86	410	1		11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
4-Chloro-3-methylphenol	<390	ug/kg	390	1300	520	1		11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
4-Chloroaniline	<40	ug/kg	40	130	410	1	M	11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
4-Chlorophenyl-phenyl ether	<27	ug/kg	27	90	410	1		11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
4-Nitroaniline	<31	ug/kg	31	100	1000	1	M	11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
4-Nitrophenol	<410	ug/kg	410	1300	1000	1		11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
Acenaphthene	<25	ug/kg	25	83	410	1		11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
Acenaphthylene	<25	ug/kg	25	84	410	1		11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
Acetophenone	<78	ug/kg	78	260	410	1		11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
Aniline	<32	ug/kg	32	100	410	1	M	11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C
Anthracene	37	ug/kg	25	84	410	1	J	11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
Azobenzene & 1,2-Diphenylhydra	<57	ug/kg	57	190	830	1		11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
Benzidine	<980	ug/kg	980	3300	2100	1	Q,M	11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
Benzo(a)anthracene	190	ug/kg	26	87	410	1	J	11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
Benzo(a)pyrene	180	ug/kg	24	81	410	1	J	11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
Benzo(b)fluoranthene	300	ug/kg	26	88	410	1	J	11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
Benzo(g,h,i)perylene	120	ug/kg	23	76	410	1	J	11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
Benzo(k)fluoranthene	130	ug/kg	26	88	410	1	J	11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
Benzoic acid	980	ug/kg	300	1000	2100	1	J M	11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
Benzyl alcohol	<86	ug/kg	86	290	1000	1		11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 870201 Sample Description: DLASS-014-0001-SO Sampled: 11/9/2010 1525

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Bis(2-chloroethoxy)methane	<24	ug/kg	24	79	410	1		11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
Bis(2-chloroethyl)ether	<26	ug/kg	26	87	410	1		11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
Bis(2-chloroisopropyl)ether	<31	ug/kg	31	100	410	1		11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
Bis(2-ethylhexyl)phthalate	900	ug/kg	90	300	1000	1	J	11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
Butylbenzylphthalate	<76	ug/kg	76	250	410	1		11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
Carbazole	32	ug/kg	29	97	410	1	J	11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
Chrysene	210	ug/kg	26	87	410	1	J	11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
Di-n-butylphthalate	120	ug/kg	82	270	410	1	J	11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
Di-n-octylphthalate	<61	ug/kg	61	210	410	1		11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
Dibenzo(a,h)anthracene	35	ug/kg	23	78	410	1	J	11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
Dibenzofuran	<25	ug/kg	25	84	410	1		11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
Diethylphthalate	<66	ug/kg	66	230	410	1		11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
Dimethylphthalate	<65	ug/kg	65	220	410	1		11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
Fluoranthene	480	ug/kg	27	89	410	1		11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
Fluorene	<26	ug/kg	26	88	410	1		11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
Hexachlorobenzene	<29	ug/kg	29	97	410	1		11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
Hexachlorobutadiene	<64	ug/kg	64	220	410	1		11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
Hexachlorocyclopentadiene	<54	ug/kg	54	180	410	1		11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
Hexachloroethane	<34	ug/kg	34	110	410	1		11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
Indeno(1,2,3-cd)pyrene	120	ug/kg	24	78	410	1	J	11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
Isophorone	<52	ug/kg	52	180	410	1		11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
N-Nitroso-di-n-propylamine	<73	ug/kg	73	240	410	1		11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
N-Nitrosodimethylamine	<81	ug/kg	81	270	410	1		11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
N-Nitrosodiphenylamine & Diphn	<52	ug/kg	52	170	830	1		11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
N-Nitrosopyrrolidine	<58	ug/kg	58	200	410	1		11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
Naphthalene	30	ug/kg	22	74	410	1	J	11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
Nitrobenzene	<61	ug/kg	61	210	410	1		11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
Pentachlorophenol	<250	ug/kg	250	830	1000	1		11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
Phenanthrene	250	ug/kg	27	91	410	1	J	11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 870201 Sample Description: DLASS-014-0001-SO Sampled: 11/9/2010 1525

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Phenol	<170	ug/kg	170	550	520	1		11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
Pyrene	370	ug/kg	27	89	410	1	J	11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
Pyridine	<40	ug/kg	40	130	410	1	Q,M	11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C ^
Surr: 2,4,6-Tribromophenol	86	% Recovery	35	125	35-125	1		11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C
Surr: 2-Fluorobiphenyl	78	% Recovery	45	105	45-105	1		11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C
Surr: 2-Fluorophenol	78	% Recovery	35	105	35-105	1		11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C
Surr: Nitrobenzene-d5	76	% Recovery	35	100	35-100	1		11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C
Surr: Phenol-d5	81	% Recovery	40	100	40-100	1		11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C
Surr: Terphenyl-d14	81	% Recovery	30	125	30-125	1		11/22/2010 10:00	12/02/2010 19:45	RPN	EPA 8270C
Aroclor-1016	<10	ug/kg	10	36	52	1		11/22/2010 11:30	11/24/2010 13:55	JJY	EPA 8082A ^
Aroclor-1221	<21	ug/kg	21	68	52	1		11/22/2010 11:30	11/24/2010 13:55	JJY	EPA 8082A ^
Aroclor-1232	<28	ug/kg	28	93	52	1		11/22/2010 11:30	11/24/2010 13:55	JJY	EPA 8082A ^
Aroclor-1242	<30	ug/kg	30	100	52	1		11/22/2010 11:30	11/24/2010 13:55	JJY	EPA 8082A ^
Aroclor-1248	<30	ug/kg	30	100	52	1		11/22/2010 11:30	11/24/2010 13:55	JJY	EPA 8082A ^
Aroclor-1254	<24	ug/kg	24	79	52	1		11/22/2010 11:30	11/24/2010 13:55	JJY	EPA 8082A ^
Aroclor-1260	<12	ug/kg	12	39	52	1		11/22/2010 11:30	11/24/2010 13:55	JJY	EPA 8082A ^
Aroclor-1262	<22	ug/kg	22	74	52	1		11/22/2010 11:30	11/24/2010 13:55	JJY	EPA 8082A ^
Aroclor-1268	<29	ug/kg	29	95	52	1		11/22/2010 11:30	11/24/2010 13:55	JJY	EPA 8082A ^
Surr: DCBP	76	% Recovery	60	125	60-125	1		11/22/2010 11:30	11/24/2010 13:55	JJY	EPA 8082A
Nitroguanidine	0.30	mg/kg	0.059	0.21	0.16	1	P	12/2/2010 12:00	12/16/2010 22:20	RED	EPA 8330
1,2-Dinitrobenzene	97	% Recovery	50	150	50-150	1		12/2/2010 12:00	12/16/2010 22:20	RED	EPA 8330
1,3,5-Trinitrobenzene	<0.13	mg/kg	0.13	0.42	0.43	1		12/2/2010 13:30	12/14/2010 10:44	RED	EPA 8330B
1,3-Dinitrobenzene	<0.079	mg/kg	0.079	0.26	0.43	1		12/2/2010 13:30	12/14/2010 10:44	RED	EPA 8330B
2,4,6-Trinitrotoluene	<0.089	mg/kg	0.089	0.31	0.43	1		12/2/2010 13:30	12/14/2010 10:44	RED	EPA 8330B
2,4-Dinitrotoluene	<0.20	mg/kg	0.20	0.65	0.43	1		12/2/2010 13:30	12/14/2010 10:44	RED	EPA 8330B
2,6-Dinitrotoluene	<0.069	mg/kg	0.069	0.24	0.49	1		12/2/2010 13:30	12/14/2010 10:44	RED	EPA 8330B
2-Amino-4,6-dinitrotoluene	<0.049	mg/kg	0.049	0.18	0.43	1		12/2/2010 13:30	12/14/2010 10:44	RED	EPA 8330B
2-Nitrotoluene	<0.089	mg/kg	0.089	0.28	0.43	1		12/2/2010 13:30	12/14/2010 10:44	RED	EPA 8330B

Solid sample results reported on a Dry Weight Basis

CT LAB#: 870201 Sample Description: DLASS-014-0001-SO Sampled: 11/9/2010 1525

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
3,5-Dinitroaniline	<0.089	mg/kg	0.089	0.28	0.43	1		12/2/2010 13:30	12/14/2010 10:44	RED	EPA 8330B
3-Nitrotoluene	<0.069	mg/kg	0.069	0.24	0.43	1		12/2/2010 13:30	12/14/2010 10:44	RED	EPA 8330B
4-Amino-2,6-dinitrotoluene	<0.069	mg/kg	0.069	0.24	0.43	1		12/2/2010 13:30	12/14/2010 10:44	RED	EPA 8330B
4-Nitrotoluene	<0.069	mg/kg	0.069	0.24	0.49	1		12/2/2010 13:30	12/14/2010 10:44	RED	EPA 8330B
HMX	<0.12	mg/kg	0.12	0.39	0.43	1		12/2/2010 13:30	12/14/2010 10:44	RED	EPA 8330B
Nitrobenzene	<0.040	mg/kg	0.040	0.14	0.43	1		12/2/2010 13:30	12/14/2010 10:44	RED	EPA 8330B
Nitroglycerin	<0.49	mg/kg	0.49	1.8	1.5	1		12/2/2010 13:30	12/14/2010 10:44	RED	EPA 8330B
PETN	<0.49	mg/kg	0.49	1.8	1.5	1		12/2/2010 13:30	12/14/2010 10:44	RED	EPA 8330B
RDX	<0.16	mg/kg	0.16	0.51	0.43	1		12/2/2010 13:30	12/14/2010 10:44	RED	EPA 8330B
Tetryl	<0.089	mg/kg	0.089	0.30	0.43	1		12/2/2010 13:30	12/14/2010 10:44	RED	EPA 8330B
1,2-Dinitrobenzene	110	% Recovery	75	127	75-127	1		12/2/2010 13:30	12/14/2010 10:44	RED	EPA 8330B
Sub Lab Results											
Asbestos	ATTACHED					1			11/17/2010 00:00	PML	
Pesticides	ATTACHED					1			12/13/2010 00:00	PML	SW8081

CT LAB#: 870202 Sample Description: DLASS-011-0001-SO Sampled: 11/9/2010 1500

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results											
Solids, Percent	95.6	%				1			11/22/2010 12:30	JTG	EPA 8000C
Hexavalent Chromium	<2.0	mg/kg	2.0	6.5	6.7	1		11/23/2010 08:30	11/23/2010 14:30	JTG	EPA 3060A/7196A ^
Metals Results											
Aluminum	9470	mg/kg	0.084	0.25	0.25	2		11/18/2010 17:30	11/19/2010 20:59	NAH	EPA 6010C ^
Antimony	0.31	mg/kg	0.17	0.56	0.56	2	J V	11/18/2010 17:30	11/19/2010 20:59	NAH	EPA 6010C ^
Arsenic	11.1	mg/kg	0.27	0.94	0.94	2		11/18/2010 17:30	11/19/2010 20:59	NAH	EPA 6010C ^
Barium	86.3	mg/kg	0.017	0.056	0.056	2	B	11/18/2010 17:30	11/19/2010 20:59	NAH	EPA 6010C ^
Beryllium	0.69	mg/kg	0.0084	0.025	0.025	2		11/18/2010 17:30	11/19/2010 20:59	NAH	EPA 6010C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 870202 Sample Description: DLASS-011-0001-SO Sampled: 11/9/2010 1500

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Cadmium	1.0	mg/kg	0.013	0.044	0.044	2		11/18/2010 17:30	11/19/2010 20:59	NAH	EPA 6010C ^
Calcium	4630	mg/kg	0.31	1.0	2.6	5		11/18/2010 17:30	11/29/2010 17:00	NAH	EPA 6010C ^
Chromium	26.7	mg/kg	0.099	0.33	0.33	5		11/18/2010 17:30	11/29/2010 17:00	NAH	EPA 6010C ^
Cobalt	11.9	mg/kg	0.078	0.26	0.26	5		11/18/2010 17:30	11/29/2010 17:00	NAH	EPA 6010C ^
Copper	15.2	mg/kg	0.13	0.42	0.42	2	B	11/18/2010 17:30	11/19/2010 20:59	NAH	EPA 6010C ^
Iron	22600	mg/kg	0.63	2.1	2.1	2		11/18/2010 17:30	11/19/2010 20:59	NAH	EPA 6010C ^
Lead	36.6	mg/kg	0.084	0.29	0.29	2		11/18/2010 17:30	11/19/2010 20:59	NAH	EPA 6010C ^
Magnesium	2690	mg/kg	0.63	2.1	2.1	5		11/18/2010 17:30	11/29/2010 17:00	NAH	EPA 6010C ^
Manganese	643	mg/kg	0.033	0.11	0.10	2		11/18/2010 17:30	11/19/2010 20:59	NAH	EPA 6010C ^
Nickel	21.8	mg/kg	0.094	0.32	0.32	5		11/18/2010 17:30	11/29/2010 17:00	NAH	EPA 6010C ^
Selenium	0.62	mg/kg	0.15	0.44	0.88	2	J V	11/18/2010 17:30	11/19/2010 20:59	NAH	EPA 6010C ^
Silver	0.14	mg/kg	0.036	0.12	0.12	2		11/18/2010 17:30	11/19/2010 20:59	NAH	EPA 6010C ^
Thallium	0.59	mg/kg	0.21	0.73	0.73	5	J V	11/18/2010 17:30	11/29/2010 17:00	NAH	EPA 6010C ^
Vanadium	19.4	mg/kg	0.023	0.071	0.071	2		11/18/2010 17:30	11/19/2010 20:59	NAH	EPA 6010C ^
Zinc	52.8	mg/kg	0.084	0.25	0.25	2		11/18/2010 17:30	11/19/2010 20:59	NAH	EPA 6010C ^
Potassium	730	mg/kg	12	38	38	1		11/18/2010 17:30	11/22/2010 08:03	NAH	EPA 6010C ^
Sodium	32.9	mg/kg	4.2	14	14	1		11/18/2010 17:30	11/22/2010 08:03	NAH	EPA 6010C ^
Mercury	0.036	mg/kg	0.0025	0.0083	0.0083	1		11/23/2010 15:30	11/24/2010 10:01	GCE	EPA 7471A ^

Sub Lab Results

Asbestos	ATTACHED					1			11/17/2010 00:00	PML	

CT LAB#: 870203 Sample Description: DLASS-014-0003-SO Sampled: 11/9/2010 1535

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results											
Solids, Percent	96.7	%				1			11/22/2010 12:30	JTG	EPA 8000C
Nitrocellulose	<7.0	mg/kg	7.0	23	7.0	1		12/8/2010 08:00	12/11/2010 21:57	BMS	EPA 9056M
Hexavalent Chromium	<2.0	mg/kg	2.0	6.4	6.6	1		11/23/2010 08:30	11/23/2010 14:30	JTG	EPA 3060A/7196A ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 870203 Sample Description: DLASS-014-0003-SO Sampled: 11/9/2010 1535

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Metals Results											
Aluminum	9670	mg/kg	0.083	0.25	0.25	2		11/18/2010 17:30	11/19/2010 21:04	NAH	EPA 6010C ^
Antimony	0.47	mg/kg	0.17	0.56	0.56	2	J V	11/18/2010 17:30	11/19/2010 21:04	NAH	EPA 6010C ^
Arsenic	10.5	mg/kg	0.27	0.93	0.93	2		11/18/2010 17:30	11/19/2010 21:04	NAH	EPA 6010C ^
Barium	88.9	mg/kg	0.017	0.056	0.056	2	B	11/18/2010 17:30	11/19/2010 21:04	NAH	EPA 6010C ^
Beryllium	0.61	mg/kg	0.0083	0.025	0.025	2		11/18/2010 17:30	11/19/2010 21:04	NAH	EPA 6010C ^
Cadmium	1.0	mg/kg	0.012	0.043	0.043	2		11/18/2010 17:30	11/19/2010 21:04	NAH	EPA 6010C ^
Calcium	2910	mg/kg	0.31	1.0	2.6	5		11/18/2010 17:30	11/29/2010 17:06	NAH	EPA 6010C ^
Chromium	30.8	mg/kg	0.098	0.33	0.33	5		11/18/2010 17:30	11/29/2010 17:06	NAH	EPA 6010C ^
Cobalt	9.0	mg/kg	0.078	0.25	0.25	5		11/18/2010 17:30	11/29/2010 17:06	NAH	EPA 6010C ^
Copper	13.9	mg/kg	0.12	0.41	0.41	2	B	11/18/2010 17:30	11/19/2010 21:04	NAH	EPA 6010C ^
Iron	22400	mg/kg	0.62	2.1	2.1	2		11/18/2010 17:30	11/19/2010 21:04	NAH	EPA 6010C ^
Lead	30.9	mg/kg	0.083	0.29	0.29	2		11/18/2010 17:30	11/19/2010 21:04	NAH	EPA 6010C ^
Magnesium	2040	mg/kg	0.62	2.1	2.1	5		11/18/2010 17:30	11/29/2010 17:06	NAH	EPA 6010C ^
Manganese	760	mg/kg	0.033	0.11	0.10	2		11/18/2010 17:30	11/19/2010 21:04	NAH	EPA 6010C ^
Nickel	18.2	mg/kg	0.093	0.32	0.32	5		11/18/2010 17:30	11/29/2010 17:06	NAH	EPA 6010C ^
Selenium	0.87	mg/kg	0.14	0.43	0.87	2	V	11/18/2010 17:30	11/19/2010 21:04	NAH	EPA 6010C ^
Silver	0.17	mg/kg	0.035	0.12	0.12	2		11/18/2010 17:30	11/19/2010 21:04	NAH	EPA 6010C ^
Thallium	0.30	mg/kg	0.21	0.72	0.72	5	J V	11/18/2010 17:30	11/29/2010 17:06	NAH	EPA 6010C ^
Vanadium	22.0	mg/kg	0.023	0.070	0.070	2		11/18/2010 17:30	11/19/2010 21:04	NAH	EPA 6010C ^
Zinc	47.6	mg/kg	0.083	0.25	0.25	2		11/18/2010 17:30	11/19/2010 21:04	NAH	EPA 6010C ^
Potassium	620	mg/kg	11	37	37	1		11/18/2010 17:30	11/22/2010 08:10	NAH	EPA 6010C ^
Sodium	25.1	mg/kg	4.1	13	13	1		11/18/2010 17:30	11/22/2010 08:10	NAH	EPA 6010C ^
Mercury	0.045	mg/kg	0.0025	0.0082	0.0082	1		11/23/2010 15:30	11/24/2010 10:03	GCE	EPA 7471A ^
Organic Results											
1,2,4-Trichlorobenzene	<22	ug/kg	22	72	420	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
1,2-Dichlorobenzene	<25	ug/kg	25	82	420	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
1,3-Dichlorobenzene	<21	ug/kg	21	70	420	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 870203 Sample Description: DLASS-014-0003-SO Sampled: 11/9/2010 1535

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,4-Dichlorobenzene	<20	ug/kg	20	65	420	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
1-Methylnaphthalene	<26	ug/kg	26	86	420	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C
2,4,5-Trichlorophenol	<130	ug/kg	130	460	520	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
2,4,6-Trichlorophenol	<130	ug/kg	130	460	520	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
2,4-Dichlorophenol	<120	ug/kg	120	430	520	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
2,4-Dimethylphenol	<100	ug/kg	100	340	420	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
2,4-Dinitrophenol	<720	ug/kg	720	2400	2100	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
2,4-Dinitrotoluene	<25	ug/kg	25	82	420	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
2,6-Dichlorophenol	<150	ug/kg	150	500	520	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
2,6-Dinitrotoluene	<25	ug/kg	25	84	420	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
2-Chloronaphthalene	<24	ug/kg	24	79	420	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
2-Chlorophenol	<350	ug/kg	350	1100	520	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
2-Methylnaphthalene	28	ug/kg	26	86	420	1	J	11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
2-Methylphenol	<440	ug/kg	440	1500	1000	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
2-Nitroaniline	<24	ug/kg	24	81	420	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
2-Nitrophenol	<290	ug/kg	290	980	520	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
3 & 4-Methylphenol	<670	ug/kg	670	2300	2100	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
3,3'-Dichlorobenzidine	<160	ug/kg	160	510	520	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
3-Nitroaniline	<23	ug/kg	23	75	1000	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
4,6-Dinitro-2-methylphenol	<280	ug/kg	280	930	1000	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
4-Bromophenyl-phenyl ether	<26	ug/kg	26	86	420	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
4-Chloro-3-methylphenol	<390	ug/kg	390	1300	520	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
4-Chloroaniline	<40	ug/kg	40	130	420	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
4-Chlorophenyl-phenyl ether	<27	ug/kg	27	90	420	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
4-Nitroaniline	<31	ug/kg	31	100	1000	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
4-Nitrophenol	<420	ug/kg	420	1300	1000	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
Acenaphthene	<25	ug/kg	25	83	420	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
Acenaphthylene	<25	ug/kg	25	84	420	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
Acetophenone	<78	ug/kg	78	260	420	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 870203 Sample Description: DLASS-014-0003-SO Sampled: 11/9/2010 1535

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Aniline	<32	ug/kg	32	100	420	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C
Anthracene	38	ug/kg	25	84	420	1	J	11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
Azobenzene & 1,2-Diphenylhydra	<57	ug/kg	57	190	830	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
Benzidine	<990	ug/kg	990	3300	2100	1	Q	11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
Benzo(a)anthracene	180	ug/kg	26	87	420	1	J	11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
Benzo(a)pyrene	170	ug/kg	24	81	420	1	J	11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
Benzo(b)fluoranthene	250	ug/kg	26	88	420	1	J	11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
Benzo(g,h,i)perylene	100	ug/kg	23	76	420	1	J	11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
Benzo(k)fluoranthene	110	ug/kg	26	88	420	1	J	11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
Benzoic acid	560	ug/kg	300	1000	2100	1	J	11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
Benzyl alcohol	<86	ug/kg	86	290	1000	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
Bis(2-chloroethoxy)methane	<24	ug/kg	24	79	420	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
Bis(2-chloroethyl)ether	<26	ug/kg	26	87	420	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
Bis(2-chloroisopropyl)ether	<31	ug/kg	31	100	420	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
Bis(2-ethylhexyl)phthalate	290	ug/kg	90	300	1000	1	J	11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
Butylbenzylphthalate	<76	ug/kg	76	250	420	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
Carbazole	37	ug/kg	29	98	420	1	J	11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
Chrysene	210	ug/kg	26	87	420	1	J	11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
Di-n-butylphthalate	96	ug/kg	82	270	420	1	J	11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
Di-n-octylphthalate	<61	ug/kg	61	210	420	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
Dibenzo(a,h)anthracene	29	ug/kg	23	78	420	1	J	11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
Dibenzofuran	<25	ug/kg	25	84	420	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
Diethylphthalate	<66	ug/kg	66	230	420	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
Dimethylphthalate	<65	ug/kg	65	220	420	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
Fluoranthene	480	ug/kg	27	89	420	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
Fluorene	<26	ug/kg	26	88	420	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
Hexachlorobenzene	<29	ug/kg	29	98	420	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
Hexachlorobutadiene	<64	ug/kg	64	220	420	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
Hexachlorocyclopentadiene	<54	ug/kg	54	180	420	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 870203 Sample Description: DLASS-014-0003-SO Sampled: 11/9/2010 1535

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Hexachloroethane	<34	ug/kg	34	110	420	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
Indeno(1,2,3-cd)pyrene	95	ug/kg	24	78	420	1	J	11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
Isophorone	<52	ug/kg	52	180	420	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
N-Nitroso-di-n-propylamine	<73	ug/kg	73	240	420	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
N-Nitrosodimethylamine	<81	ug/kg	81	270	420	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
N-Nitrosodiphenylamine & Diphn	<52	ug/kg	52	170	830	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
N-Nitrosopyrrolidine	<58	ug/kg	58	200	420	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
Naphthalene	24	ug/kg	22	74	420	1	J	11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
Nitrobenzene	<61	ug/kg	61	210	420	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
Pentachlorophenol	<250	ug/kg	250	830	1000	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
Phenanthrene	250	ug/kg	27	91	420	1	J	11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
Phenol	<170	ug/kg	170	550	520	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
Pyrene	360	ug/kg	27	89	420	1	J	11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
Pyridine	<40	ug/kg	40	130	420	1	Q	11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C ^
Surr: 2,4,6-Tribromophenol	84	% Recovery	35	125	35-125	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C
Surr: 2-Fluorobiphenyl	77	% Recovery	45	105	45-105	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C
Surr: 2-Fluorophenol	76	% Recovery	35	105	35-105	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C
Surr: Nitrobenzene-d5	76	% Recovery	35	100	35-100	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C
Surr: Phenol-d5	81	% Recovery	40	100	40-100	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C
Surr: Terphenyl-d14	81	% Recovery	30	125	30-125	1		11/22/2010 10:00	12/02/2010 20:46	RPN	EPA 8270C
Aroclor-1016	<10	ug/kg	10	36	52	1		11/22/2010 11:30	11/24/2010 14:57	JJY	EPA 8082A ^
Aroclor-1221	<21	ug/kg	21	69	52	1		11/22/2010 11:30	11/24/2010 14:57	JJY	EPA 8082A ^
Aroclor-1232	<28	ug/kg	28	94	52	1		11/22/2010 11:30	11/24/2010 14:57	JJY	EPA 8082A ^
Aroclor-1242	<30	ug/kg	30	100	52	1		11/22/2010 11:30	11/24/2010 14:57	JJY	EPA 8082A ^
Aroclor-1248	<30	ug/kg	30	100	52	1		11/22/2010 11:30	11/24/2010 14:57	JJY	EPA 8082A ^
Aroclor-1254	<24	ug/kg	24	79	52	1		11/22/2010 11:30	11/24/2010 14:57	JJY	EPA 8082A ^
Aroclor-1260	<12	ug/kg	12	39	52	1		11/22/2010 11:30	11/24/2010 14:57	JJY	EPA 8082A ^
Aroclor-1262	<22	ug/kg	22	74	52	1		11/22/2010 11:30	11/24/2010 14:57	JJY	EPA 8082A ^
Aroclor-1268	<29	ug/kg	29	96	52	1		11/22/2010 11:30	11/24/2010 14:57	JJY	EPA 8082A ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 870203 Sample Description: DLASS-014-0003-SO Sampled: 11/9/2010 1535

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Surr: DCBP	77	% Recovery	60	125	60-125	1		11/22/2010 11:30	11/24/2010 14:57	JJY	EPA 8082A
Nitroguanidine	0.24	mg/kg	0.060	0.21	0.16	1	P	12/2/2010 12:00	12/16/2010 23:32	RED	EPA 8330
1,2-Dinitrobenzene	92	% Recovery	50	150	50-150	1		12/2/2010 12:00	12/16/2010 23:32	RED	EPA 8330
1,3,5-Trinitrobenzene	<0.13	mg/kg	0.13	0.43	0.44	1		12/2/2010 13:30	12/14/2010 12:40	RED	EPA 8330B
1,3-Dinitrobenzene	<0.080	mg/kg	0.080	0.26	0.44	1		12/2/2010 13:30	12/14/2010 12:40	RED	EPA 8330B
2,4,6-Trinitrotoluene	<0.090	mg/kg	0.090	0.31	0.44	1		12/2/2010 13:30	12/14/2010 12:40	RED	EPA 8330B
2,4-Dinitrotoluene	<0.20	mg/kg	0.20	0.66	0.44	1		12/2/2010 13:30	12/14/2010 12:40	RED	EPA 8330B
2,6-Dinitrotoluene	<0.070	mg/kg	0.070	0.24	0.50	1		12/2/2010 13:30	12/14/2010 12:40	RED	EPA 8330B
2-Amino-4,6-dinitrotoluene	<0.050	mg/kg	0.050	0.18	0.44	1		12/2/2010 13:30	12/14/2010 12:40	RED	EPA 8330B
2-Nitrotoluene	<0.090	mg/kg	0.090	0.28	0.44	1		12/2/2010 13:30	12/14/2010 12:40	RED	EPA 8330B
3,5-Dinitroaniline	<0.090	mg/kg	0.090	0.28	0.44	1		12/2/2010 13:30	12/14/2010 12:40	RED	EPA 8330B
3-Nitrotoluene	<0.070	mg/kg	0.070	0.24	0.44	1		12/2/2010 13:30	12/14/2010 12:40	RED	EPA 8330B
4-Amino-2,6-dinitrotoluene	<0.070	mg/kg	0.070	0.24	0.44	1		12/2/2010 13:30	12/14/2010 12:40	RED	EPA 8330B
4-Nitrotoluene	<0.070	mg/kg	0.070	0.24	0.50	1		12/2/2010 13:30	12/14/2010 12:40	RED	EPA 8330B
HMX	<0.12	mg/kg	0.12	0.39	0.44	1		12/2/2010 13:30	12/14/2010 12:40	RED	EPA 8330B
Nitrobenzene	<0.040	mg/kg	0.040	0.14	0.44	1		12/2/2010 13:30	12/14/2010 12:40	RED	EPA 8330B
Nitroglycerin	<0.50	mg/kg	0.50	1.8	1.5	1		12/2/2010 13:30	12/14/2010 12:40	RED	EPA 8330B
PETN	<0.50	mg/kg	0.50	1.8	1.5	1		12/2/2010 13:30	12/14/2010 12:40	RED	EPA 8330B
RDX	<0.16	mg/kg	0.16	0.52	0.44	1		12/2/2010 13:30	12/14/2010 12:40	RED	EPA 8330B
Tetryl	<0.090	mg/kg	0.090	0.30	0.44	1		12/2/2010 13:30	12/14/2010 12:40	RED	EPA 8330B
1,2-Dinitrobenzene	142	% Recovery	75	127	75-127	1	S	12/2/2010 13:30	12/14/2010 12:40	RED	EPA 8330B

Sub Lab Results

Asbestos	ATTACHED					1			11/17/2010 00:00	PML	
Pesticides	ATTACHED					1			12/13/2010 00:00	PML	SW8081

Solid sample results reported on a Dry Weight Basis

CT LAB#: 870204 Sample Description: DLASS-030-0001-SO Sampled: 11/10/2010 1316

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results											
Solids, Percent	95.8	%				1			11/22/2010 12:30	JTG	EPA 8000C
Hexavalent Chromium	<2.0	mg/kg	2.0	6.5	6.7	1		11/23/2010 08:30	11/23/2010 14:30	JTG	EPA 3060A/7196A ^
Metals Results											
Aluminum	9290	mg/kg	0.084	0.25	0.25	2		11/18/2010 17:30	11/19/2010 21:31	NAH	EPA 6010C ^
Antimony	0.99	mg/kg	0.17	0.56	0.56	2		11/18/2010 17:30	11/19/2010 21:31	NAH	EPA 6010C ^
Arsenic	10.3	mg/kg	0.27	0.94	0.94	2		11/18/2010 17:30	11/19/2010 21:31	NAH	EPA 6010C ^
Barium	114	mg/kg	0.017	0.056	0.056	2	B	11/18/2010 17:30	11/19/2010 21:31	NAH	EPA 6010C ^
Beryllium	0.69	mg/kg	0.0084	0.025	0.025	2		11/18/2010 17:30	11/19/2010 21:31	NAH	EPA 6010C ^
Cadmium	1.0	mg/kg	0.013	0.044	0.044	2		11/18/2010 17:30	11/19/2010 21:31	NAH	EPA 6010C ^
Calcium	3660	mg/kg	0.13	0.42	1.0	2	B	11/18/2010 17:30	11/19/2010 21:31	NAH	EPA 6010C ^
Chromium	82.7	mg/kg	0.099	0.33	0.33	5		11/18/2010 17:30	11/29/2010 17:12	NAH	EPA 6010C ^
Cobalt	9.5	mg/kg	0.078	0.26	0.26	5		11/18/2010 17:30	11/29/2010 17:12	NAH	EPA 6010C ^
Copper	11.5	mg/kg	0.13	0.42	0.42	2	B	11/18/2010 17:30	11/19/2010 21:31	NAH	EPA 6010C ^
Iron	20300	mg/kg	0.63	2.1	2.1	2		11/18/2010 17:30	11/19/2010 21:31	NAH	EPA 6010C ^
Lead	31.7	mg/kg	0.084	0.29	0.29	2		11/18/2010 17:30	11/19/2010 21:31	NAH	EPA 6010C ^
Magnesium	1950	mg/kg	0.25	0.84	0.84	2	B	11/18/2010 17:30	11/19/2010 21:31	NAH	EPA 6010C ^
Manganese	1300	mg/kg	0.033	0.11	0.10	2		11/18/2010 17:30	11/19/2010 21:31	NAH	EPA 6010C ^
Nickel	15.8	mg/kg	0.094	0.32	0.32	5		11/18/2010 17:30	11/29/2010 17:12	NAH	EPA 6010C ^
Selenium	1.2	mg/kg	0.15	0.44	0.88	2		11/18/2010 17:30	12/03/2010 14:37	NAH	EPA 6010C ^
Silver	0.21	mg/kg	0.035	0.12	0.12	2		11/18/2010 17:30	11/19/2010 21:31	NAH	EPA 6010C ^
Thallium	1.3	mg/kg	0.21	0.73	0.73	5		11/18/2010 17:30	11/29/2010 17:12	NAH	EPA 6010C ^
Vanadium	20.4	mg/kg	0.023	0.071	0.071	2	B	11/18/2010 17:30	11/19/2010 21:31	NAH	EPA 6010C ^
Zinc	52.2	mg/kg	0.084	0.25	0.25	2		11/18/2010 17:30	11/19/2010 21:31	NAH	EPA 6010C ^
Potassium	848	mg/kg	11	38	38	1		11/18/2010 17:30	11/22/2010 08:13	NAH	EPA 6010C ^
Sodium	57.7	mg/kg	4.2	14	14	1		11/18/2010 17:30	11/22/2010 08:13	NAH	EPA 6010C ^
Mercury	0.055	mg/kg	0.0025	0.0082	0.0082	1		11/23/2010 15:30	11/24/2010 10:05	GCE	EPA 7471A ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 870204 Sample Description: DLASS-030-0001-SO Sampled: 11/10/2010 1316

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Sub Lab Results											
Asbestos	ATTACHED					1			11/17/2010 00:00	PML	

CT LAB#: 870207 Sample Description: DLASS-026-0001-SO Sampled: 11/9/2010 1600

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results											
Solids, Percent	96.8	%				1			11/22/2010 12:30	JTG	EPA 8000C
Hexavalent Chromium	<2.0	mg/kg	2.0	6.4	6.6	1		11/23/2010 08:30	11/23/2010 14:30	JTG	EPA 3060A/7196A ^
Metals Results											
Aluminum	9610	mg/kg	0.083	0.25	0.25	2		11/18/2010 17:30	11/19/2010 21:37	NAH	EPA 6010C ^
Antimony	2.2	mg/kg	0.17	0.56	0.56	2		11/18/2010 17:30	11/19/2010 21:37	NAH	EPA 6010C ^
Arsenic	9.6	mg/kg	0.27	0.93	0.93	2		11/18/2010 17:30	11/19/2010 21:37	NAH	EPA 6010C ^
Barium	105	mg/kg	0.017	0.056	0.056	2	B	11/18/2010 17:30	11/19/2010 21:37	NAH	EPA 6010C ^
Beryllium	0.68	mg/kg	0.0083	0.025	0.025	2		11/18/2010 17:30	11/19/2010 21:37	NAH	EPA 6010C ^
Cadmium	1.1	mg/kg	0.012	0.043	0.043	2		11/18/2010 17:30	11/19/2010 21:37	NAH	EPA 6010C ^
Calcium	4010	mg/kg	0.12	0.41	1.0	2	B	11/18/2010 17:30	11/19/2010 21:37	NAH	EPA 6010C ^
Chromium	155	mg/kg	0.098	0.33	0.33	5		11/18/2010 17:30	11/29/2010 17:17	NAH	EPA 6010C ^
Cobalt	2.0	mg/kg	0.015	0.051	0.051	1		11/18/2010 17:30	11/29/2010 17:17	NAH	EPA 6010C ^
Copper	14.2	mg/kg	0.12	0.41	0.41	2	B	11/18/2010 17:30	11/19/2010 21:37	NAH	EPA 6010C ^
Iron	22000	mg/kg	0.62	2.1	2.1	2		11/18/2010 17:30	11/19/2010 21:37	NAH	EPA 6010C ^
Lead	30.8	mg/kg	0.083	0.29	0.29	2		11/18/2010 17:30	11/19/2010 21:37	NAH	EPA 6010C ^
Magnesium	2180	mg/kg	0.25	0.83	0.83	2	B	11/18/2010 17:30	11/19/2010 21:37	NAH	EPA 6010C ^
Manganese	852	mg/kg	0.033	0.11	0.10	2		11/18/2010 17:30	11/19/2010 21:37	NAH	EPA 6010C ^
Nickel	3.9	mg/kg	0.019	0.063	0.063	1		11/18/2010 17:30	11/29/2010 17:17	NAH	EPA 6010C ^
Selenium	0.78	mg/kg	0.14	0.43	0.87	2	J V	11/18/2010 17:30	12/03/2010 14:43	NAH	EPA 6010C ^
Silver	0.13	mg/kg	0.035	0.12	0.12	2		11/18/2010 17:30	11/19/2010 21:37	NAH	EPA 6010C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 870207 Sample Description: DLASS-026-0001-SO Sampled: 11/9/2010 1600

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Thallium	0.86	mg/kg	0.21	0.72	0.72	5		11/18/2010 17:30	11/29/2010 17:17	NAH	EPA 6010C ^
Vanadium	21.4	mg/kg	0.023	0.070	0.070	2	B	11/18/2010 17:30	11/19/2010 21:37	NAH	EPA 6010C ^
Zinc	52.2	mg/kg	0.083	0.25	0.25	2		11/18/2010 17:30	11/19/2010 21:37	NAH	EPA 6010C ^
Potassium	956	mg/kg	11	37	37	1		11/18/2010 17:30	11/22/2010 08:15	NAH	EPA 6010C ^
Sodium	60.4	mg/kg	4.1	13	13	1		11/18/2010 17:30	11/22/2010 08:15	NAH	EPA 6010C ^
Mercury	0.044	mg/kg	0.0025	0.0082	0.0082	1		11/23/2010 15:30	11/24/2010 10:06	GCE	EPA 7471A ^
Sub Lab Results											
Asbestos	ATTACHED					1			11/17/2010 00:00	PML	

CT LAB#: 870208 Sample Description: DLASS-029-0001-SO Sampled: 11/9/2010 1620

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results											
Solids, Percent	98.5	%				1			12/02/2010 17:00	KMB	EPA 8000C
Hexavalent Chromium	<1.9	mg/kg	1.9	6.3	6.5	1		12/8/2010 12:00	12/08/2010 16:00	CES	EPA 3060A/7196A ^
Metals Results											
Aluminum	10500	mg/kg	0.081	0.24	0.24	2	B	12/2/2010 16:30	12/03/2010 21:13	NAH	EPA 6010C ^
Antimony	2.6	mg/kg	0.16	0.55	0.55	2		12/2/2010 16:30	12/03/2010 21:13	NAH	EPA 6010C ^
Arsenic	8.1	mg/kg	0.26	0.91	0.91	2		12/2/2010 16:30	12/03/2010 21:13	NAH	EPA 6010C ^
Barium	105	mg/kg	0.016	0.055	0.055	2	B	12/2/2010 16:30	12/03/2010 21:13	NAH	EPA 6010C ^
Beryllium	0.54	mg/kg	0.0081	0.024	0.024	2	B	12/2/2010 16:30	12/03/2010 21:13	NAH	EPA 6010C ^
Cadmium	0.27	mg/kg	0.012	0.043	0.043	2		12/2/2010 16:30	12/03/2010 21:13	NAH	EPA 6010C ^
Calcium	3500	mg/kg	0.12	0.41	1.0	2	B	12/2/2010 16:30	12/03/2010 21:13	NAH	EPA 6010C ^
Chromium	117	mg/kg	0.039	0.13	0.13	2	B	12/2/2010 16:30	12/03/2010 21:13	NAH	EPA 6010C ^
Cobalt	7.7	mg/kg	0.030	0.099	0.099	2	B	12/2/2010 16:30	12/03/2010 21:13	NAH	EPA 6010C ^
Copper	9.2	mg/kg	0.12	0.41	0.41	2		12/2/2010 16:30	12/03/2010 21:13	NAH	EPA 6010C ^
Iron	19600	mg/kg	0.61	2.0	2.0	2	B	12/2/2010 16:30	12/03/2010 21:13	NAH	EPA 6010C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 870208 Sample Description: DLASS-029-0001-SO Sampled: 11/9/2010 1620

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Lead	23.6	mg/kg	0.081	0.28	0.28	2		12/2/2010 16:30	12/03/2010 21:13	NAH	EPA 6010C ^
Magnesium	2590	mg/kg	0.24	0.81	0.81	2		12/2/2010 16:30	12/09/2010 20:22	NAH	EPA 6010C ^
Manganese	1370	mg/kg	0.032	0.11	0.10	2	B	12/2/2010 16:30	12/03/2010 21:13	NAH	EPA 6010C ^
Nickel	18.8	mg/kg	0.037	0.12	0.12	2	B	12/2/2010 16:30	12/03/2010 21:13	NAH	EPA 6010C ^
Selenium	2.7	mg/kg	0.14	0.43	0.85	2		12/2/2010 16:30	12/09/2010 20:22	NAH	EPA 6010C ^
Silver	0.17	mg/kg	0.035	0.11	0.11	2		12/2/2010 16:30	12/03/2010 21:13	NAH	EPA 6010C ^
Thallium	0.59	mg/kg	0.081	0.28	0.28	2		12/2/2010 16:30	12/09/2010 20:22	NAH	EPA 6010C ^
Vanadium	21.2	mg/kg	0.022	0.069	0.069	2		12/2/2010 16:30	12/03/2010 21:13	NAH	EPA 6010C ^
Zinc	47.4	mg/kg	0.081	0.24	0.24	2		12/2/2010 16:30	12/03/2010 21:13	NAH	EPA 6010C ^
Potassium	822	mg/kg	11	37	37	1		12/2/2010 16:30	12/03/2010 16:19	NAH	EPA 6010C ^
Sodium	47.0	mg/kg	4.1	13	13	1		12/2/2010 16:30	12/03/2010 16:19	NAH	EPA 6010C ^
Mercury	0.054	mg/kg	0.0024	0.0080	0.0080	1		12/7/2010 15:30	12/08/2010 14:39	GCE	EPA 7471A ^
Sub Lab Results											
Asbestos	ATTACHED					1			11/17/2010 00:00	PML	

CT LAB#: 870209 Sample Description: DLASS-007-0001-SO Sampled: 11/9/2010 0900

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results											
Solids, Percent	98.4	%				1			12/02/2010 17:00	KMB	EPA 8000C
Hexavalent Chromium	<1.9	mg/kg	1.9	6.3	6.5	1		12/8/2010 12:00	12/08/2010 16:00	CES	EPA 3060A/7196A ^
Metals Results											
Aluminum	11200	mg/kg	0.081	0.24	0.24	2	B	12/2/2010 16:30	12/03/2010 21:19	NAH	EPA 6010C ^
Antimony	843	mg/kg	0.16	0.55	0.55	2		12/2/2010 16:30	12/03/2010 21:19	NAH	EPA 6010C ^
Arsenic	15.5	mg/kg	0.26	0.91	0.91	2		12/2/2010 16:30	12/03/2010 21:19	NAH	EPA 6010C ^
Barium	131	mg/kg	0.016	0.055	0.055	2	B	12/2/2010 16:30	12/03/2010 21:19	NAH	EPA 6010C ^
Beryllium	0.80	mg/kg	0.0081	0.024	0.024	2	B	12/2/2010 16:30	12/03/2010 21:19	NAH	EPA 6010C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 870209 Sample Description: DLASS-007-0001-SO Sampled: 11/9/2010 0900

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Cadmium	0.34	mg/kg	0.012	0.043	0.043	2		12/2/2010 16:30	12/03/2010 21:19	NAH	EPA 6010C ^
Calcium	9960	mg/kg	0.12	0.41	1.0	2	B	12/2/2010 16:30	12/03/2010 21:19	NAH	EPA 6010C ^
Chromium	119	mg/kg	0.039	0.13	0.13	2	B	12/2/2010 16:30	12/03/2010 21:19	NAH	EPA 6010C ^
Cobalt	9.9	mg/kg	0.030	0.10	0.10	2	B	12/2/2010 16:30	12/03/2010 21:19	NAH	EPA 6010C ^
Copper	14.0	mg/kg	0.12	0.41	0.41	2		12/2/2010 16:30	12/03/2010 21:19	NAH	EPA 6010C ^
Iron	22800	mg/kg	0.61	2.0	2.0	2	B	12/2/2010 16:30	12/03/2010 21:19	NAH	EPA 6010C ^
Lead	43.8	mg/kg	0.081	0.28	0.28	2		12/2/2010 16:30	12/03/2010 21:19	NAH	EPA 6010C ^
Magnesium	2560	mg/kg	0.24	0.81	0.81	2		12/2/2010 16:30	12/09/2010 20:27	NAH	EPA 6010C ^
Manganese	1490	mg/kg	0.033	0.11	0.10	2	B	12/2/2010 16:30	12/03/2010 21:19	NAH	EPA 6010C ^
Nickel	25.4	mg/kg	0.037	0.12	0.12	2	B	12/2/2010 16:30	12/03/2010 21:19	NAH	EPA 6010C ^
Selenium	0.38	mg/kg	0.14	0.43	0.85	2	J V	12/2/2010 16:30	12/09/2010 20:27	NAH	EPA 6010C ^
Silver	0.18	mg/kg	0.035	0.11	0.11	2		12/2/2010 16:30	12/03/2010 21:19	NAH	EPA 6010C ^
Thallium	1.2	mg/kg	0.081	0.28	0.28	2		12/2/2010 16:30	12/09/2010 20:27	NAH	EPA 6010C ^
Vanadium	20.9	mg/kg	0.022	0.069	0.069	2		12/2/2010 16:30	12/03/2010 21:19	NAH	EPA 6010C ^
Zinc	78.3	mg/kg	0.081	0.24	0.24	2		12/2/2010 16:30	12/03/2010 21:19	NAH	EPA 6010C ^
Potassium	953	mg/kg	11	37	37	1		12/2/2010 16:30	12/03/2010 16:27	NAH	EPA 6010C ^
Sodium	79.5	mg/kg	4.1	13	13	1		12/2/2010 16:30	12/03/2010 16:27	NAH	EPA 6010C ^
Mercury	0.061	mg/kg	0.0024	0.0080	0.0080	1		12/7/2010 15:30	12/08/2010 14:41	GCE	EPA 7471A ^
Sub Lab Results											
Asbestos	ATTACHED					1			11/17/2010 00:00	PML	

CT LAB#: 870210 Sample Description: DLASS-020-0001-SO Sampled: 11/9/2010 1000

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results											
Solids, Percent	98.6	%				1			12/02/2010 17:00	KMB	EPA 8000C
Hexavalent Chromium	<1.9	mg/kg	1.9	6.3	6.5	1		12/8/2010 12:00	12/08/2010 16:00	CES	EPA 3060A/7196A ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 870210 Sample Description: DLASS-020-0001-SO Sampled: 11/9/2010 1000

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Metals Results											
Aluminum	9890	mg/kg	0.081	0.24	0.24	2	B	12/2/2010 16:30	12/03/2010 21:25	NAH	EPA 6010C ^
Antimony	20.7	mg/kg	0.16	0.55	0.55	2		12/2/2010 16:30	12/03/2010 21:25	NAH	EPA 6010C ^
Arsenic	10.2	mg/kg	0.26	0.91	0.91	2		12/2/2010 16:30	12/03/2010 21:25	NAH	EPA 6010C ^
Barium	104	mg/kg	0.016	0.055	0.055	2	B	12/2/2010 16:30	12/03/2010 21:25	NAH	EPA 6010C ^
Beryllium	0.81	mg/kg	0.0081	0.024	0.024	2	B	12/2/2010 16:30	12/03/2010 21:25	NAH	EPA 6010C ^
Cadmium	0.19	mg/kg	0.012	0.043	0.043	2		12/2/2010 16:30	12/03/2010 21:25	NAH	EPA 6010C ^
Calcium	14800	mg/kg	0.12	0.41	1.0	2	B	12/2/2010 16:30	12/03/2010 21:25	NAH	EPA 6010C ^
Chromium	106	mg/kg	0.039	0.13	0.13	2	B	12/2/2010 16:30	12/03/2010 21:25	NAH	EPA 6010C ^
Cobalt	7.4	mg/kg	0.030	0.099	0.099	2	B	12/2/2010 16:30	12/03/2010 21:25	NAH	EPA 6010C ^
Copper	11.2	mg/kg	0.12	0.41	0.41	2		12/2/2010 16:30	12/03/2010 21:25	NAH	EPA 6010C ^
Iron	17200	mg/kg	0.61	2.0	2.0	2	B	12/2/2010 16:30	12/03/2010 21:25	NAH	EPA 6010C ^
Lead	19.1	mg/kg	0.081	0.28	0.28	2		12/2/2010 16:30	12/03/2010 21:25	NAH	EPA 6010C ^
Magnesium	3290	mg/kg	0.24	0.81	0.81	2		12/2/2010 16:30	12/09/2010 20:32	NAH	EPA 6010C ^
Manganese	1260	mg/kg	0.032	0.11	0.10	2	B	12/2/2010 16:30	12/03/2010 21:25	NAH	EPA 6010C ^
Nickel	18.9	mg/kg	0.037	0.12	0.12	2	B	12/2/2010 16:30	12/03/2010 21:25	NAH	EPA 6010C ^
Selenium	<0.14	mg/kg	0.14	0.43	0.85	2	V	12/2/2010 16:30	12/09/2010 20:32	NAH	EPA 6010C ^
Silver	0.062	mg/kg	0.034	0.11	0.11	2	J V	12/2/2010 16:30	12/03/2010 21:25	NAH	EPA 6010C ^
Thallium	0.81	mg/kg	0.081	0.28	0.28	2		12/2/2010 16:30	12/09/2010 20:32	NAH	EPA 6010C ^
Vanadium	15.8	mg/kg	0.022	0.069	0.069	2		12/2/2010 16:30	12/03/2010 21:25	NAH	EPA 6010C ^
Zinc	48.2	mg/kg	0.081	0.24	0.24	2		12/2/2010 16:30	12/03/2010 21:25	NAH	EPA 6010C ^
Potassium	1290	mg/kg	11	37	37	1		12/2/2010 16:30	12/03/2010 16:29	NAH	EPA 6010C ^
Sodium	104	mg/kg	4.1	13	13	1		12/2/2010 16:30	12/03/2010 16:29	NAH	EPA 6010C ^
Mercury	0.032	mg/kg	0.0024	0.0080	0.0080	1		12/7/2010 15:30	12/08/2010 14:42	GCE	EPA 7471A ^
Sub Lab Results											
Asbestos	ATTACHED					1			11/17/2010 00:00	PML	

Solid sample results reported on a Dry Weight Basis

CT LAB#: 870211 Sample Description: DLASS-028-0001-SO Sampled: 11/9/2010 1549

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results											
Solids, Percent	98.5	%				1			12/02/2010 17:00	KMB	EPA 8000C
Hexavalent Chromium	<1.9	mg/kg	1.9	6.3	6.5	1		12/8/2010 12:00	12/08/2010 16:00	CES	EPA 3060A/7196A ^
Metals Results											
Aluminum	15900	mg/kg	0.081	0.24	0.24	2	B	12/2/2010 16:30	12/03/2010 21:30	NAH	EPA 6010C ^
Antimony	1.4	mg/kg	0.16	0.55	0.55	2		12/2/2010 16:30	12/03/2010 21:30	NAH	EPA 6010C ^
Arsenic	9.3	mg/kg	0.26	0.91	0.91	2		12/2/2010 16:30	12/03/2010 21:30	NAH	EPA 6010C ^
Barium	175	mg/kg	0.016	0.055	0.055	2	B	12/2/2010 16:30	12/03/2010 21:30	NAH	EPA 6010C ^
Beryllium	1.1	mg/kg	0.0081	0.024	0.024	2	B	12/2/2010 16:30	12/03/2010 21:30	NAH	EPA 6010C ^
Cadmium	0.026	mg/kg	0.012	0.043	0.043	2	J	12/2/2010 16:30	12/03/2010 21:30	NAH	EPA 6010C ^
Calcium	21800	mg/kg	0.12	0.41	1.0	2	B	12/2/2010 16:30	12/03/2010 21:30	NAH	EPA 6010C ^
Chromium	62.9	mg/kg	0.039	0.13	0.13	2	B	12/2/2010 16:30	12/03/2010 21:30	NAH	EPA 6010C ^
Cobalt	7.4	mg/kg	0.030	0.099	0.099	2	B	12/2/2010 16:30	12/03/2010 21:30	NAH	EPA 6010C ^
Copper	8.6	mg/kg	0.12	0.41	0.41	2		12/2/2010 16:30	12/03/2010 21:30	NAH	EPA 6010C ^
Iron	20600	mg/kg	0.61	2.0	2.0	2	B	12/2/2010 16:30	12/03/2010 21:30	NAH	EPA 6010C ^
Lead	21.7	mg/kg	0.081	0.28	0.28	2		12/2/2010 16:30	12/03/2010 21:30	NAH	EPA 6010C ^
Magnesium	3210	mg/kg	0.24	0.81	0.81	2		12/2/2010 16:30	12/09/2010 20:38	NAH	EPA 6010C ^
Manganese	2390	mg/kg	0.032	0.11	0.10	2	B	12/2/2010 16:30	12/03/2010 21:30	NAH	EPA 6010C ^
Nickel	15.1	mg/kg	0.037	0.12	0.12	2	B	12/2/2010 16:30	12/03/2010 21:30	NAH	EPA 6010C ^
Selenium	0.69	mg/kg	0.14	0.43	0.85	2	J V	12/2/2010 16:30	12/09/2010 20:38	NAH	EPA 6010C ^
Silver	0.091	mg/kg	0.035	0.11	0.11	2	J V	12/2/2010 16:30	12/03/2010 21:30	NAH	EPA 6010C ^
Thallium	0.57	mg/kg	0.081	0.28	0.28	2		12/2/2010 16:30	12/09/2010 20:38	NAH	EPA 6010C ^
Vanadium	25.2	mg/kg	0.022	0.069	0.069	2		12/2/2010 16:30	12/03/2010 21:30	NAH	EPA 6010C ^
Zinc	49.1	mg/kg	0.081	0.24	0.24	2		12/2/2010 16:30	12/03/2010 21:30	NAH	EPA 6010C ^
Potassium	782	mg/kg	11	37	37	1		12/2/2010 16:30	12/03/2010 16:32	NAH	EPA 6010C ^
Sodium	76.9	mg/kg	4.1	13	13	1		12/2/2010 16:30	12/03/2010 16:32	NAH	EPA 6010C ^
Mercury	0.047	mg/kg	0.0024	0.0080	0.0080	1		12/7/2010 15:30	12/08/2010 14:44	GCE	EPA 7471A ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 870211 Sample Description: DLASS-028-0001-SO Sampled: 11/9/2010 1549

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Sub Lab Results											
Asbestos	ATTACHED					1			11/17/2010 00:00	PML	

CT LAB#: 870212 Sample Description: DLASS-002-0003-SO Sampled: 11/10/2010 1025

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results											
Solids, Percent	98.5	%				1			12/02/2010 17:00	KMB	EPA 8000C
Nitrocellulose	<7.0	mg/kg	7.0	23	7.0	1		12/8/2010 08:00	12/11/2010 22:13	BMS	EPA 9056M
Hexavalent Chromium	<1.9	mg/kg	1.9	6.3	6.5	1		12/8/2010 12:00	12/08/2010 16:00	CES	EPA 3060A/7196A ^
Metals Results											
Aluminum	10600	mg/kg	0.081	0.24	0.24	2	B	12/2/2010 16:30	12/03/2010 21:36	NAH	EPA 6010C ^
Antimony	113	mg/kg	0.16	0.55	0.55	2		12/2/2010 16:30	12/03/2010 21:36	NAH	EPA 6010C ^
Arsenic	10.2	mg/kg	0.26	0.91	0.91	2		12/2/2010 16:30	12/03/2010 21:36	NAH	EPA 6010C ^
Barium	103	mg/kg	0.016	0.055	0.055	2	B	12/2/2010 16:30	12/03/2010 21:36	NAH	EPA 6010C ^
Beryllium	0.57	mg/kg	0.0081	0.024	0.024	2	B	12/2/2010 16:30	12/03/2010 21:36	NAH	EPA 6010C ^
Cadmium	0.19	mg/kg	0.012	0.043	0.043	2		12/2/2010 16:30	12/03/2010 21:36	NAH	EPA 6010C ^
Calcium	3720	mg/kg	0.12	0.41	1.0	2	B	12/2/2010 16:30	12/03/2010 21:36	NAH	EPA 6010C ^
Chromium	103	mg/kg	0.039	0.13	0.13	2	B	12/2/2010 16:30	12/03/2010 21:36	NAH	EPA 6010C ^
Cobalt	8.4	mg/kg	0.030	0.099	0.099	2	B	12/2/2010 16:30	12/03/2010 21:36	NAH	EPA 6010C ^
Copper	10.9	mg/kg	0.12	0.41	0.41	2		12/2/2010 16:30	12/03/2010 21:36	NAH	EPA 6010C ^
Iron	17600	mg/kg	0.61	2.0	2.0	2	B	12/2/2010 16:30	12/03/2010 21:36	NAH	EPA 6010C ^
Lead	32.5	mg/kg	0.081	0.28	0.28	2		12/2/2010 16:30	12/03/2010 21:36	NAH	EPA 6010C ^
Magnesium	1580	mg/kg	0.24	0.81	0.81	2		12/2/2010 16:30	12/09/2010 20:43	NAH	EPA 6010C ^
Manganese	1290	mg/kg	0.032	0.11	0.10	2	B	12/2/2010 16:30	12/03/2010 21:36	NAH	EPA 6010C ^
Nickel	12.4	mg/kg	0.037	0.12	0.12	2	B	12/2/2010 16:30	12/03/2010 21:36	NAH	EPA 6010C ^
Selenium	<0.14	mg/kg	0.14	0.43	0.85	2	V,B	12/2/2010 16:30	12/03/2010 21:36	NAH	EPA 6010C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 870212 Sample Description: DLASS-002-0003-SO Sampled: 11/10/2010 1025

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Silver	<0.035	mg/kg	0.035	0.11	0.11	2	V	12/2/2010 16:30	12/03/2010 21:36	NAH	EPA 6010C ^
Thallium	0.32	mg/kg	0.081	0.28	0.28	2		12/2/2010 16:30	12/09/2010 20:43	NAH	EPA 6010C ^
Vanadium	21.3	mg/kg	0.022	0.069	0.069	2		12/2/2010 16:30	12/03/2010 21:36	NAH	EPA 6010C ^
Zinc	49.5	mg/kg	0.081	0.24	0.24	2		12/2/2010 16:30	12/03/2010 21:36	NAH	EPA 6010C ^
Potassium	888	mg/kg	11	37	37	1		12/2/2010 16:30	12/03/2010 16:34	NAH	EPA 6010C ^
Sodium	46.2	mg/kg	4.1	13	13	1		12/2/2010 16:30	12/03/2010 16:34	NAH	EPA 6010C ^
Mercury	0.045	mg/kg	0.0024	0.0080	0.0080	1		12/7/2010 15:30	12/08/2010 14:46	GCE	EPA 7471A ^
Organic Results											
1,2,4-Trichlorobenzene	<21	ug/kg	21	70	410	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
1,2-Dichlorobenzene	<24	ug/kg	24	80	410	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
1,3-Dichlorobenzene	<20	ug/kg	20	68	410	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
1,4-Dichlorobenzene	<19	ug/kg	19	64	410	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
1-Methylnaphthalene	29	ug/kg	25	84	410	1	J	12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C
2,4,5-Trichlorophenol	<130	ug/kg	130	450	510	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
2,4,6-Trichlorophenol	<130	ug/kg	130	450	510	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
2,4-Dichlorophenol	<120	ug/kg	120	420	510	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
2,4-Dimethylphenol	<100	ug/kg	100	340	410	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
2,4-Dinitrophenol	<700	ug/kg	700	2300	2000	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
2,4-Dinitrotoluene	<24	ug/kg	24	80	410	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
2,6-Dichlorophenol	<140	ug/kg	140	490	510	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
2,6-Dinitrotoluene	<24	ug/kg	24	82	410	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
2-Chloronaphthalene	<23	ug/kg	23	77	410	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
2-Chlorophenol	<350	ug/kg	350	1100	510	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
2-Methylnaphthalene	40	ug/kg	25	84	410	1	J	12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
2-Methylphenol	<430	ug/kg	430	1400	1000	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
2-Nitroaniline	<23	ug/kg	23	79	410	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
2-Nitrophenol	<280	ug/kg	280	960	510	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
3 & 4-Methylphenol	<660	ug/kg	660	2200	2000	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 870212 Sample Description: DLASS-002-0003-SO Sampled: 11/10/2010 1025

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
3,3'-Dichlorobenzidine	<150	ug/kg	150	500	510	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
3-Nitroaniline	<22	ug/kg	22	73	1000	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
4,6-Dinitro-2-methylphenol	<270	ug/kg	270	920	1000	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
4-Bromophenyl-phenyl ether	<25	ug/kg	25	84	410	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
4-Chloro-3-methylphenol	<390	ug/kg	390	1300	510	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
4-Chloroaniline	<40	ug/kg	40	130	410	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
4-Chlorophenyl-phenyl ether	<26	ug/kg	26	89	410	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
4-Nitroaniline	<31	ug/kg	31	100	1000	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
4-Nitrophenol	<410	ug/kg	410	1300	1000	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
Acenaphthene	<24	ug/kg	24	81	410	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
Acenaphthylene	52	ug/kg	24	82	410	1	J	12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
Acetophenone	<76	ug/kg	76	250	410	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
Aniline	<32	ug/kg	32	100	410	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C
Anthracene	200	ug/kg	24	82	410	1	J	12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
Azobenzene & 1,2-Diphenylhydra	<56	ug/kg	56	180	810	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
Benzidine	<970	ug/kg	970	3300	2000	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
Benzo(a)anthracene	600	ug/kg	25	85	410	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
Benzo(a)pyrene	420	ug/kg	23	79	410	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
Benzo(b)fluoranthene	690	ug/kg	25	86	410	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
Benzo(g,h,i)perylene	190	ug/kg	22	74	410	1	J	12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
Benzo(k)fluoranthene	260	ug/kg	25	86	410	1	J	12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
Benzoic acid	340	ug/kg	300	1000	2000	1	J	12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
Benzyl alcohol	<84	ug/kg	84	280	1000	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
Bis(2-chloroethoxy)methane	<23	ug/kg	23	77	410	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
Bis(2-chloroethyl)ether	<25	ug/kg	25	85	410	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
Bis(2-chloroisopropyl)ether	<31	ug/kg	31	100	410	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
Bis(2-ethylhexyl)phthalate	<89	ug/kg	89	300	1000	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
Butylbenzylphthalate	<74	ug/kg	74	240	410	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
Carbazole	49	ug/kg	28	96	410	1	J	12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 870212 Sample Description: DLASS-002-0003-SO Sampled: 11/10/2010 1025

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Chrysene	530	ug/kg	25	85	410	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
Di-n-butylphthalate	250	ug/kg	80	260	410	1	J	12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
Di-n-octylphthalate	<60	ug/kg	60	200	410	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
Dibenzo(a,h)anthracene	66	ug/kg	22	76	410	1	J	12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
Dibenzofuran	24	ug/kg	24	82	410	1	J	12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
Diethylphthalate	68	ug/kg	65	220	410	1	J	12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
Dimethylphthalate	<64	ug/kg	64	210	410	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
Fluoranthene	1300	ug/kg	26	87	410	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
Fluorene	57	ug/kg	25	86	410	1	J	12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
Hexachlorobenzene	<28	ug/kg	28	96	410	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
Hexachlorobutadiene	<63	ug/kg	63	210	410	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
Hexachlorocyclopentadiene	<53	ug/kg	53	170	410	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
Hexachloroethane	<34	ug/kg	34	110	410	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
Indeno(1,2,3-cd)pyrene	200	ug/kg	23	76	410	1	J	12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
Isophorone	<51	ug/kg	51	170	410	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
N-Nitroso-di-n-propylamine	<71	ug/kg	71	230	410	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
N-Nitrosodimethylamine	<79	ug/kg	79	260	410	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
N-Nitrosodiphenylamine & Diphn	<51	ug/kg	51	160	810	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
N-Nitrosopyrrolidine	<57	ug/kg	57	190	410	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
Naphthalene	33	ug/kg	21	72	410	1	J	12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
Nitrobenzene	<60	ug/kg	60	200	410	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
Pentachlorophenol	<240	ug/kg	240	810	1000	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
Phenanthrene	580	ug/kg	26	90	410	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
Phenol	<160	ug/kg	160	540	510	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
Pyrene	990	ug/kg	26	87	410	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
Pyridine	<40	ug/kg	40	130	410	1	Q	12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C ^
Surr: 2,4,6-Tribromophenol	73	% Recovery	35	125	35-125	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C
Surr: 2-Fluorobiphenyl	73	% Recovery	45	105	45-105	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C
Surr: 2-Fluorophenol	64	% Recovery	35	105	35-105	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C

Solid sample results reported on a Dry Weight Basis

CT LAB#: 870212 Sample Description: DLASS-002-0003-SO Sampled: 11/10/2010 1025

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Surr: Nitrobenzene-d5	69	% Recovery	35	100	35-100	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C
Surr: Phenol-d5	72	% Recovery	40	100	40-100	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C
Surr: Terphenyl-d14	79	% Recovery	30	125	30-125	1		12/3/2010 15:00	12/08/2010 23:20	RPN	EPA 8270C
Aroclor-1016	<10	ug/kg	10	35	50	1		12/3/2010 15:00	12/08/2010 16:27	JJY	EPA 8082A ^
Aroclor-1221	<20	ug/kg	20	66	50	1		12/3/2010 15:00	12/08/2010 16:27	JJY	EPA 8082A ^
Aroclor-1232	<27	ug/kg	27	90	50	1		12/3/2010 15:00	12/08/2010 16:27	JJY	EPA 8082A ^
Aroclor-1242	<29	ug/kg	29	96	50	1		12/3/2010 15:00	12/08/2010 16:27	JJY	EPA 8082A ^
Aroclor-1248	<29	ug/kg	29	98	50	1		12/3/2010 15:00	12/08/2010 16:27	JJY	EPA 8082A ^
Aroclor-1254	<23	ug/kg	23	76	50	1		12/3/2010 15:00	12/08/2010 16:27	JJY	EPA 8082A ^
Aroclor-1260	<12	ug/kg	12	38	50	1		12/3/2010 15:00	12/08/2010 16:27	JJY	EPA 8082A ^
Aroclor-1262	<21	ug/kg	21	71	50	1		12/3/2010 15:00	12/08/2010 16:27	JJY	EPA 8082A ^
Aroclor-1268	<28	ug/kg	28	92	50	1		12/3/2010 15:00	12/08/2010 16:27	JJY	EPA 8082A ^
Surr: DCBP	91	% Recovery	60	125	60-125	1		12/3/2010 15:00	12/08/2010 16:27	JJY	EPA 8082A
Nitroguanidine	0.29	mg/kg	0.061	0.21	0.16	1	P	12/6/2010 16:00	12/17/2010 03:21	RED	EPA 8330
1,2-Dinitrobenzene	92	% Recovery	50	150	50-150	1		12/6/2010 16:00	12/17/2010 03:21	RED	EPA 8330
1,3,5-Trinitrobenzene	<0.13	mg/kg	0.13	0.43	0.44	1		12/6/2010 17:15	12/14/2010 20:32	RED	EPA 8330B
1,3-Dinitrobenzene	<0.080	mg/kg	0.080	0.26	0.44	1		12/6/2010 17:15	12/14/2010 20:32	RED	EPA 8330B
2,4,6-Trinitrotoluene	<0.090	mg/kg	0.090	0.31	0.44	1		12/6/2010 17:15	12/14/2010 20:32	RED	EPA 8330B
2,4-Dinitrotoluene	<0.20	mg/kg	0.20	0.66	0.44	1		12/6/2010 17:15	12/14/2010 20:32	RED	EPA 8330B
2,6-Dinitrotoluene	<0.070	mg/kg	0.070	0.24	0.50	1		12/6/2010 17:15	12/14/2010 20:32	RED	EPA 8330B
2-Amino-4,6-dinitrotoluene	<0.050	mg/kg	0.050	0.18	0.44	1		12/6/2010 17:15	12/14/2010 20:32	RED	EPA 8330B
2-Nitrotoluene	<0.090	mg/kg	0.090	0.28	0.44	1		12/6/2010 17:15	12/14/2010 20:32	RED	EPA 8330B
3,5-Dinitroaniline	<0.090	mg/kg	0.090	0.28	0.44	1		12/6/2010 17:15	12/14/2010 20:32	RED	EPA 8330B
3-Nitrotoluene	<0.070	mg/kg	0.070	0.24	0.44	1		12/6/2010 17:15	12/14/2010 20:32	RED	EPA 8330B
4-Amino-2,6-dinitrotoluene	<0.070	mg/kg	0.070	0.24	0.44	1		12/6/2010 17:15	12/14/2010 20:32	RED	EPA 8330B
4-Nitrotoluene	<0.070	mg/kg	0.070	0.24	0.50	1		12/6/2010 17:15	12/14/2010 20:32	RED	EPA 8330B
HMX	<0.12	mg/kg	0.12	0.39	0.44	1		12/6/2010 17:15	12/14/2010 20:32	RED	EPA 8330B
Nitrobenzene	<0.040	mg/kg	0.040	0.14	0.44	1		12/6/2010 17:15	12/14/2010 20:32	RED	EPA 8330B

Solid sample results reported on a Dry Weight Basis

CT LAB#: 870212 Sample Description: DLASS-002-0003-SO Sampled: 11/10/2010 1025

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Nitroglycerin	<0.50	mg/kg	0.50	1.8	1.5	1		12/6/2010 17:15	12/14/2010 20:32	RED	EPA 8330B
PETN	<0.50	mg/kg	0.50	1.8	1.5	1		12/6/2010 17:15	12/14/2010 20:32	RED	EPA 8330B
RDX	<0.16	mg/kg	0.16	0.52	0.44	1		12/6/2010 17:15	12/14/2010 20:32	RED	EPA 8330B
Tetryl	<0.090	mg/kg	0.090	0.30	0.44	1		12/6/2010 17:15	12/14/2010 20:32	RED	EPA 8330B
1,2-Dinitrobenzene	106	% Recovery	75	127	75-127	1		12/6/2010 17:15	12/14/2010 20:32	RED	EPA 8330B
Sub Lab Results											
Asbestos	ATTACHED					1			11/17/2010 00:00	PML	
Pesticides	ATTACHED					1			12/17/2010 00:00	PML	SW8081

CT LAB#: 870213 Sample Description: DLASS-012-0001-SO Sampled: 11/9/2010 1630

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results											
Solids, Percent	98.6	%				1			12/02/2010 17:00	KMB	EPA 8000C
Hexavalent Chromium	<1.9	mg/kg	1.9	6.3	6.5	1		12/8/2010 12:00	12/08/2010 16:00	CES	EPA 3060A/7196A ^
Metals Results											
Aluminum	11700	mg/kg	0.081	0.24	0.24	2	B	12/2/2010 16:30	12/03/2010 21:42	NAH	EPA 6010C ^
Antimony	3.9	mg/kg	0.16	0.55	0.55	2		12/2/2010 16:30	12/03/2010 21:42	NAH	EPA 6010C ^
Arsenic	8.8	mg/kg	0.26	0.91	0.91	2		12/2/2010 16:30	12/03/2010 21:42	NAH	EPA 6010C ^
Barium	86.2	mg/kg	0.016	0.055	0.055	2	B	12/2/2010 16:30	12/03/2010 21:42	NAH	EPA 6010C ^
Beryllium	0.59	mg/kg	0.0081	0.024	0.024	2	B	12/2/2010 16:30	12/03/2010 21:42	NAH	EPA 6010C ^
Cadmium	0.18	mg/kg	0.012	0.043	0.043	2		12/2/2010 16:30	12/03/2010 21:42	NAH	EPA 6010C ^
Calcium	3500	mg/kg	0.12	0.41	1.0	2	B	12/2/2010 16:30	12/03/2010 21:42	NAH	EPA 6010C ^
Chromium	97.9	mg/kg	0.039	0.13	0.13	2	B	12/2/2010 16:30	12/03/2010 21:42	NAH	EPA 6010C ^
Cobalt	8.3	mg/kg	0.030	0.099	0.099	2	B	12/2/2010 16:30	12/03/2010 21:42	NAH	EPA 6010C ^
Copper	11.6	mg/kg	0.12	0.41	0.41	2		12/2/2010 16:30	12/03/2010 21:42	NAH	EPA 6010C ^
Iron	17200	mg/kg	0.61	2.0	2.0	2	B	12/2/2010 16:30	12/03/2010 21:42	NAH	EPA 6010C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 870213 Sample Description: DLASS-012-0001-SO Sampled: 11/9/2010 1630

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Lead	19.6	mg/kg	0.081	0.28	0.28	2		12/2/2010 16:30	12/03/2010 21:42	NAH	EPA 6010C ^
Magnesium	2280	mg/kg	0.24	0.81	0.81	2		12/2/2010 16:30	12/09/2010 21:10	NAH	EPA 6010C ^
Manganese	1040	mg/kg	0.032	0.11	0.10	2	B	12/2/2010 16:30	12/03/2010 21:42	NAH	EPA 6010C ^
Nickel	17.6	mg/kg	0.037	0.12	0.12	2	B	12/2/2010 16:30	12/03/2010 21:42	NAH	EPA 6010C ^
Selenium	<0.14	mg/kg	0.14	0.43	0.85	2	V,B	12/2/2010 16:30	12/03/2010 21:42	NAH	EPA 6010C ^
Silver	<0.034	mg/kg	0.034	0.11	0.11	2	V	12/2/2010 16:30	12/03/2010 21:42	NAH	EPA 6010C ^
Thallium	0.70	mg/kg	0.081	0.28	0.28	2		12/2/2010 16:30	12/09/2010 21:10	NAH	EPA 6010C ^
Vanadium	23.5	mg/kg	0.022	0.069	0.069	2		12/2/2010 16:30	12/03/2010 21:42	NAH	EPA 6010C ^
Zinc	62.4	mg/kg	0.081	0.24	0.24	2		12/2/2010 16:30	12/03/2010 21:42	NAH	EPA 6010C ^
Potassium	1050	mg/kg	11	37	37	1		12/2/2010 16:30	12/03/2010 16:37	NAH	EPA 6010C ^
Sodium	52.0	mg/kg	4.1	13	13	1		12/2/2010 16:30	12/03/2010 16:37	NAH	EPA 6010C ^
Mercury	0.040	mg/kg	0.0024	0.0080	0.0080	1		12/7/2010 15:30	12/08/2010 14:48	GCE	EPA 7471A ^
Sub Lab Results											
Asbestos	ATTACHED					1			11/17/2010 00:00	PML	

CT LAB#: 870214 Sample Description: DLASS-025-0001-SO Sampled: 11/9/2010 1500

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results											
Solids, Percent	98.2	%				1			12/02/2010 17:00	KMB	EPA 8000C
Hexavalent Chromium	<1.9	mg/kg	1.9	6.3	6.5	1		12/8/2010 12:00	12/08/2010 16:00	CES	EPA 3060A/7196A ^
Metals Results											
Aluminum	13000	mg/kg	0.081	0.24	0.24	2	B	12/2/2010 16:30	12/03/2010 21:47	NAH	EPA 6010C ^
Antimony	1.8	mg/kg	0.16	0.55	0.55	2		12/2/2010 16:30	12/03/2010 21:47	NAH	EPA 6010C ^
Arsenic	9.1	mg/kg	0.26	0.92	0.92	2		12/2/2010 16:30	12/03/2010 21:47	NAH	EPA 6010C ^
Barium	144	mg/kg	0.016	0.055	0.055	2	B	12/2/2010 16:30	12/03/2010 21:47	NAH	EPA 6010C ^
Beryllium	0.93	mg/kg	0.0081	0.024	0.024	2	B	12/2/2010 16:30	12/03/2010 21:47	NAH	EPA 6010C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 870214 Sample Description: DLASS-025-0001-SO Sampled: 11/9/2010 1500

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Cadmium	0.26	mg/kg	0.012	0.043	0.043	2		12/2/2010 16:30	12/03/2010 21:47	NAH	EPA 6010C ^
Calcium	16400	mg/kg	0.12	0.41	1.0	2	B	12/2/2010 16:30	12/03/2010 21:47	NAH	EPA 6010C ^
Chromium	101	mg/kg	0.039	0.13	0.13	2	B	12/2/2010 16:30	12/03/2010 21:47	NAH	EPA 6010C ^
Cobalt	8.4	mg/kg	0.031	0.10	0.10	2	B	12/2/2010 16:30	12/03/2010 21:47	NAH	EPA 6010C ^
Copper	12.7	mg/kg	0.12	0.41	0.41	2		12/2/2010 16:30	12/03/2010 21:47	NAH	EPA 6010C ^
Iron	18300	mg/kg	0.61	2.0	2.0	2	B	12/2/2010 16:30	12/03/2010 21:47	NAH	EPA 6010C ^
Lead	20.7	mg/kg	0.081	0.29	0.29	2		12/2/2010 16:30	12/03/2010 21:47	NAH	EPA 6010C ^
Magnesium	3130	mg/kg	0.24	0.81	0.81	2		12/2/2010 16:30	12/09/2010 21:15	NAH	EPA 6010C ^
Manganese	1800	mg/kg	0.033	0.11	0.10	2	B	12/2/2010 16:30	12/03/2010 21:47	NAH	EPA 6010C ^
Nickel	21.2	mg/kg	0.037	0.12	0.12	2	B	12/2/2010 16:30	12/03/2010 21:47	NAH	EPA 6010C ^
Selenium	1.9	mg/kg	0.14	0.43	0.86	2		12/2/2010 16:30	12/09/2010 21:15	NAH	EPA 6010C ^
Silver	0.079	mg/kg	0.035	0.11	0.11	2	J V	12/2/2010 16:30	12/03/2010 21:47	NAH	EPA 6010C ^
Thallium	0.58	mg/kg	0.081	0.29	0.29	2		12/2/2010 16:30	12/09/2010 21:15	NAH	EPA 6010C ^
Vanadium	22.0	mg/kg	0.022	0.069	0.069	2		12/2/2010 16:30	12/03/2010 21:47	NAH	EPA 6010C ^
Zinc	46.9	mg/kg	0.081	0.24	0.24	2		12/2/2010 16:30	12/03/2010 21:47	NAH	EPA 6010C ^
Potassium	1010	mg/kg	11	37	37	1		12/2/2010 16:30	12/03/2010 16:39	NAH	EPA 6010C ^
Sodium	101	mg/kg	4.1	13	13	1		12/2/2010 16:30	12/03/2010 16:39	NAH	EPA 6010C ^
Mercury	0.049	mg/kg	0.0024	0.0080	0.0080	1		12/7/2010 15:30	12/08/2010 14:50	GCE	EPA 7471A ^
Sub Lab Results											
Asbestos	ATTACHED					1			11/17/2010 00:00	PML	

CT LAB#: 870215 Sample Description: DLASS-006-0001-SO Sampled: 11/9/2010 0900

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results											
Solids, Percent	98.5	%				1			12/02/2010 17:00	KMB	EPA 8000C
Hexavalent Chromium	<1.9	mg/kg	1.9	6.3	6.5	1		12/8/2010 12:00	12/08/2010 16:00	CES	EPA 3060A/7196A ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 870215 Sample Description: DLASS-006-0001-SO Sampled: 11/9/2010 0900

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Metals Results											
Aluminum	10800	mg/kg	0.081	0.24	0.24	2	B	12/2/2010 16:30	12/03/2010 21:53	NAH	EPA 6010C ^
Antimony	364	mg/kg	0.16	0.55	0.55	2		12/2/2010 16:30	12/03/2010 21:53	NAH	EPA 6010C ^
Arsenic	10.5	mg/kg	0.26	0.91	0.91	2		12/2/2010 16:30	12/03/2010 21:53	NAH	EPA 6010C ^
Barium	111	mg/kg	0.016	0.055	0.055	2	B	12/2/2010 16:30	12/03/2010 21:53	NAH	EPA 6010C ^
Beryllium	0.79	mg/kg	0.0081	0.024	0.024	2	B	12/2/2010 16:30	12/03/2010 21:53	NAH	EPA 6010C ^
Cadmium	0.26	mg/kg	0.012	0.043	0.043	2		12/2/2010 16:30	12/03/2010 21:53	NAH	EPA 6010C ^
Calcium	13100	mg/kg	0.12	0.41	1.0	2	B	12/2/2010 16:30	12/03/2010 21:53	NAH	EPA 6010C ^
Chromium	92.9	mg/kg	0.039	0.13	0.13	2	B	12/2/2010 16:30	12/03/2010 21:53	NAH	EPA 6010C ^
Cobalt	8.2	mg/kg	0.030	0.099	0.099	2	B	12/2/2010 16:30	12/03/2010 21:53	NAH	EPA 6010C ^
Copper	11.0	mg/kg	0.12	0.41	0.41	2		12/2/2010 16:30	12/03/2010 21:53	NAH	EPA 6010C ^
Iron	20300	mg/kg	0.61	2.0	2.0	2	B	12/2/2010 16:30	12/03/2010 21:53	NAH	EPA 6010C ^
Lead	30.2	mg/kg	0.081	0.28	0.28	2		12/2/2010 16:30	12/03/2010 21:53	NAH	EPA 6010C ^
Magnesium	3420	mg/kg	0.24	0.81	0.81	2		12/2/2010 16:30	12/09/2010 21:21	NAH	EPA 6010C ^
Manganese	1370	mg/kg	0.032	0.11	0.10	2	B	12/2/2010 16:30	12/03/2010 21:53	NAH	EPA 6010C ^
Nickel	18.4	mg/kg	0.037	0.12	0.12	2	B	12/2/2010 16:30	12/03/2010 21:53	NAH	EPA 6010C ^
Selenium	0.97	mg/kg	0.14	0.43	0.85	2		12/2/2010 16:30	12/09/2010 21:21	NAH	EPA 6010C ^
Silver	0.18	mg/kg	0.035	0.11	0.11	2		12/2/2010 16:30	12/03/2010 21:53	NAH	EPA 6010C ^
Thallium	0.96	mg/kg	0.081	0.28	0.28	2		12/2/2010 16:30	12/09/2010 21:21	NAH	EPA 6010C ^
Vanadium	18.5	mg/kg	0.022	0.069	0.069	2		12/2/2010 16:30	12/03/2010 21:53	NAH	EPA 6010C ^
Zinc	50.8	mg/kg	0.081	0.24	0.24	2		12/2/2010 16:30	12/03/2010 21:53	NAH	EPA 6010C ^
Potassium	1070	mg/kg	11	37	37	1		12/2/2010 16:30	12/03/2010 16:42	NAH	EPA 6010C ^
Sodium	96.2	mg/kg	4.1	13	13	1		12/2/2010 16:30	12/03/2010 16:42	NAH	EPA 6010C ^
Mercury	0.048	mg/kg	0.0024	0.0080	0.0080	1		12/7/2010 15:30	12/08/2010 14:52	GCE	EPA 7471A ^
Sub Lab Results											
Asbestos	ATTACHED					1			11/17/2010 00:00	PML	

Solid sample results reported on a Dry Weight Basis

CT LAB#: 870216 Sample Description: DLASS-013-0001-SO Sampled: 11/9/2010 1458

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results											
Solids, Percent	98.1	%				1			12/02/2010 17:00	KMB	EPA 8000C
Hexavalent Chromium	<1.9	mg/kg	1.9	6.3	6.5	1		12/8/2010 12:00	12/08/2010 16:00	CES	EPA 3060A/7196A ^
Metals Results											
Aluminum	11800	mg/kg	0.082	0.24	0.24	2	B	12/2/2010 16:30	12/03/2010 21:59	NAH	EPA 6010C ^
Antimony	8.7	mg/kg	0.16	0.55	0.55	2		12/2/2010 16:30	12/03/2010 21:59	NAH	EPA 6010C ^
Arsenic	9.6	mg/kg	0.27	0.92	0.92	2		12/2/2010 16:30	12/03/2010 21:59	NAH	EPA 6010C ^
Barium	115	mg/kg	0.016	0.055	0.055	2	B	12/2/2010 16:30	12/03/2010 21:59	NAH	EPA 6010C ^
Beryllium	0.69	mg/kg	0.0082	0.024	0.024	2	B	12/2/2010 16:30	12/03/2010 21:59	NAH	EPA 6010C ^
Cadmium	0.27	mg/kg	0.012	0.043	0.043	2		12/2/2010 16:30	12/03/2010 21:59	NAH	EPA 6010C ^
Calcium	8870	mg/kg	0.12	0.41	1.0	2	B	12/2/2010 16:30	12/03/2010 21:59	NAH	EPA 6010C ^
Chromium	85.1	mg/kg	0.039	0.13	0.13	2	B	12/2/2010 16:30	12/03/2010 21:59	NAH	EPA 6010C ^
Cobalt	8.3	mg/kg	0.031	0.10	0.10	2	B	12/2/2010 16:30	12/03/2010 21:59	NAH	EPA 6010C ^
Copper	10.1	mg/kg	0.12	0.41	0.41	2		12/2/2010 16:30	12/03/2010 21:59	NAH	EPA 6010C ^
Iron	21700	mg/kg	0.61	2.0	2.0	2	B	12/2/2010 16:30	12/03/2010 21:59	NAH	EPA 6010C ^
Lead	19.2	mg/kg	0.082	0.29	0.29	2		12/2/2010 16:30	12/03/2010 21:59	NAH	EPA 6010C ^
Magnesium	2730	mg/kg	0.24	0.82	0.82	2		12/2/2010 16:30	12/09/2010 21:26	NAH	EPA 6010C ^
Manganese	1200	mg/kg	0.033	0.11	0.10	2	B	12/2/2010 16:30	12/03/2010 21:59	NAH	EPA 6010C ^
Nickel	17.0	mg/kg	0.037	0.12	0.12	2	B	12/2/2010 16:30	12/03/2010 21:59	NAH	EPA 6010C ^
Selenium	1.8	mg/kg	0.14	0.43	0.86	2		12/2/2010 16:30	12/09/2010 21:26	NAH	EPA 6010C ^
Silver	0.19	mg/kg	0.035	0.11	0.11	2		12/2/2010 16:30	12/03/2010 21:59	NAH	EPA 6010C ^
Thallium	0.48	mg/kg	0.082	0.29	0.29	2		12/2/2010 16:30	12/09/2010 21:26	NAH	EPA 6010C ^
Vanadium	21.4	mg/kg	0.022	0.069	0.069	2		12/2/2010 16:30	12/03/2010 21:59	NAH	EPA 6010C ^
Zinc	53.5	mg/kg	0.082	0.24	0.24	2		12/2/2010 16:30	12/03/2010 21:59	NAH	EPA 6010C ^
Potassium	1050	mg/kg	11	37	37	1		12/2/2010 16:30	12/03/2010 16:44	NAH	EPA 6010C ^
Sodium	70.3	mg/kg	4.1	13	13	1		12/2/2010 16:30	12/03/2010 16:44	NAH	EPA 6010C ^
Mercury	0.037	mg/kg	0.0024	0.0081	0.0081	1		12/7/2010 15:30	12/08/2010 14:54	GCE	EPA 7471A ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 870216 Sample Description: DLASS-013-0001-SO Sampled: 11/9/2010 1458

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Sub Lab Results											
Asbestos	ATTACHED					1			11/17/2010 00:00	PML	

Solid sample results reported on a Dry Weight Basis

Notes: ^ Indicates the laboratory is NELAP accredited for this analyte by the indicated matrix and method.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

This report has been specifically prepared to satisfy project or program requirements. The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Level of uncertainty measurements only provided upon pre-approved request.

Submitted by: PML r
Project Manager
608-356-2760

QC Qualifiers

Code	Description
B	Analyte detected in the associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
U	Analyte concentration was below detection limit.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Specified calibration criteria was not met.

Current CT Laboratories Certifications

Illinois NELAP ID# 200046

Kansas NELAP ID# E-10368

Kentucky ID# 0023

Pennsylvania NELAP ID# 68-04201

New Jersey NELAP ID# WI001

North Dakota ID# R-171

Wisconsin (WDNR) Chemistry ID# 157066030

Wisconsin (DATCP) Bacteriology ID# 105-289

DoD-ELAP Accreditation Cert # ADE-1453

GA EPD Stipulation

Accreditor:	IL NELAP
Accreditation ID:	200046
Scope:	Hazardous/Solid Waste Non-potable water
Effective:	11/19/2009
Expires:	09/30/2010

Rev. 3/2006

Chain of Custody

Page 1 of 1

Company: USACE
Project Contact: DEREK KINDER
Telephone: 502 315 6393
Project Name: OPE PILES
Project Number: —
Project Location: RAVENNA AAP
Sampled By:

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other CERCLA

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Date Needed _____

*Notify Lab prior to sending in RUSH samples. Surcharges:
24 hr 200% 2-3 days 100% 4-9 days 50%,
subject to change without notice.

Folder #: 82424
Company: USACE - LOUISVILLE
Project: RAVENNA
Logged By: JLS PM: PM

Mail Report To:
Company:
Address:
City/State/Zip:

Invoice To:
Company:
Address:
City/State/Zip:

PO No.

Client Special Instructions:
Metals include
Cr VI + Mercury

82424 - Page 58 of 178

Landfill License Number:

Filt? Y/N

Collection Date	Collection Time	Grab/ Comp	Sample ID Description	WDNR Well ID #	**Matrix:	Explosives + Propellants	Metals	SVOCs	PCB	Pesticides	Asbestos			Total # of Containers	Preservation*	Lab ID #
Fill in Spaces with Bottles per Test																
11/10/10	0955	MI	DLASS-027-0001-SO		S		X				X					870188
11/10/10	1015	MI	DLASS-002-0001-SO		S	X	X	X	X	X	X	MS/MSD				870189
11/10/10	1225	MI	DLASS-018-0001-SO		S		X				X					870190
11/10/10	1030	MI	DLASS-001-0001-SO		S		X				X					870191
11/10/10	1405	MI	DLASS-016-0001-SO		S		X				X					870192
11/10/10	1330	MI	DLASS-017-0001-SO		S		X				X					870193

* Preservation Code
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

**Matrix
S-Soil A-Air Sl-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

Relinquished By:	Date/Time	Relinquished By:	Date/Time
Derek Kinder	11/10/10 1800		
Received by:	Date/Time	Received for Laboratory by:	Date/Time
FedEx			11/11/10 1140

Ice Present (Yes) No
Temperature 2.4°C
Cooler # 3813
11/11/10 0945 MWD

Rev. 3/2006

Chain of Custody

Page 1 of 1

Company: USACE
Project Contact: DEREK KINDER
Telephone: 502 315 6393
Project Name: OAC PILES
Project Number: —
Project Location: RAVENNA AAP
Sampled By:

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other CERCLA

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608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Turnaround Time
(Normal) RUSH*
Date Needed _____

*Notify Lab prior to sending in RUSH samples. Surcharges:
24 hr 200% 2-3 days 100% 4-9 days 50%,
subject to change without notice.

Lab Use Only
Place Header Sticker Here
8.29.4

Mail Report To:
Company:
Address:
City/State/Zip:

Invoice To:
Company:
Address:
City/State/Zip:

PO No.

Client Special Instructions:

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Landfill License Number:

Collection Date	Collection Time	Grab/ Comp	Sample ID Description	Filt? Y/N	WDNR Well ID #	**Matrix:	VOCs							Total # of Containers	Preservation*	Lab ID #
				Fill in Spaces with Bottles per Test												
11/10/10	1230	G	DLASS-023-0001-SO			S	X									870182
11/10/10	1400	G	DLASS-033-0001-SO			S	X									870183
11/10/10	0900	G	DLASS-003-0001-SO			S	X	MS/MSD								870184
11/10/10	0900	G	DLASS-003-0002-SO			S	X									870185
11/10/10	1430	G	DLASS-043-0001-SO			S	X									870186
11/10/10	1000	G	DLASS-015-0001-SO			S	X									870187

* **Preservation Code**
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

Relinquished By:	Date/Time	Relinquished By:	Date/Time
Derek Kinder	11/10/10 1800		
Received by:	Date/Time	Received for Laboratory by:	Date/Time
Fed ex			11/11/10 1140

Ice Present (Yes) No
Temperature 1.8
Cooler # 3711
11/11/10 1140 0959 yls

**Matrix
S-Soil A-Air Sl-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

Rev. 3/2006

Chain of Custody

Page 1 of 1

Company: USACE
Project Contact: DEREK KINDER
Telephone: 502 315 6393
Project Name: ORC FILES
Project Number: —
Project Location: RAVENNA AAP
Sampled By:

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other CERCLA

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Turnaround Time
(Normal) RUSH*
Date Needed _____

*Notify Lab prior to sending in RUSH samples. Surcharges:
24 hr 200% 2-3 days 100% 4-9 days 50%,
subject to change without notice.

Lab Use Only
Place Header Sticker Here:
82424

Mail Report To:
Company:
Address:
City/State/Zip:

Invoice To:
Company:
Address:
City/State/Zip:

PO No.

Client Special Instructions:

Landfill License Number:

Collection Date	Collection Time	Grab/ Comp	Sample ID Description	Filt? Y/N	WDNR Well ID #	**Matrix:	Explosives Propellants	Tal Metals + Mercury + CrVI	SVOCs PCBs Pesticides	Asbestos					Total # of Containers	Preservation*	Lab ID #
				Fill in Spaces with Bottles per Test													
11/9/10	1220	MI	DLAss-022-0001-SO			Soil	X	X	X	X							870194
11/9/10	1230	MI	DLAss-022-0003-SO			Soil	X	X	X	X							870195
11/9/10	1100	MI	DLAss-008-0001-SO			Soil		X		X							870196
11/9/10	1030	MI	DLAss-021-0001-SO			Soil		X		X							870197

* **Preservation Code**
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

Relinquished By:	Date/Time	Relinquished By:	Date/Time
Derek Kinder	11/10/10 1600		
Received by:	**Date/Time**	**Received for Laboratory by:**	**Date/Time**
Fedex	11/10/10 1600		11/11/10 1140

Ice Present (Yes) No
Temperature 1.8°
Cooler # Kemron Cooler
BML, 11-11-10, 0950

**Matrix
S-Soil A-Air Sl-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

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Chain of Custody

Page 1 of 1

Rev. 3/2006

Company: USACE
Project Contact: Derek Kinder
Telephone: 502-315-6393
Project Name: Ore Piles
Project Number:
Project Location: Ravenna AAP
Sampled By:

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Mail Report To:
Company:
Address:
City/State/Zip:

Invoice To:
Company:
Address:
City/State/Zip:

PO No.

Turnaround Time
Normal RUSH*
Date Needed _____

*Notify Lab prior to sending in RUSH samples. Surcharges:
24 hr 200% 2-3 days 100% 4-9 days 50%,
subject to change without notice.

Lab Use Only
Place Header Sticker Here:

82424

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other CERCLA

Client Special Instructions:
Metals include Cr VI + Mercury

Landfill License Number:

Filt? Y/N

Collection Date	Collection Time	Grab/ Comp	Sample ID Description	WDNR Well ID #	**Matrix:	Explosives + Propellants	Metals	SVOC	PCB	Pesticides	Asbestos			Total # of Containers	Preservation*	Lab ID #
			Fill in Spaces with Bottles per Test													
11/09/10	0920	MI	DLASS-005-0001-SO		S		X				X					870200
11/09/10	1525	MI	DLASS-014-0001-SO		S	X	X	X	X	X	X	MS/MSD				870201
11/09/10	1500	MI	DLASS-011-0001-SO		S		X				X					870202
11/09/10	1535	MI	DLASS-014-0003-SO		S	X	X	X	X	X	X					870203
11/10/10	1316	MI	DLASS-030-0001-SO		S		X				X					870204

* **Preservation Code**
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

Relinquished By:	Date/Time	Relinquished By:	Date/Time
Derek Kinder	11/10/10 1800		
Received by:	**Date/Time**	**Received for Laboratory by:**	**Date/Time**
Fedex			11/11/10 1140

Ice Present (Yes) No
Temperature 2.6
Cooler # 3612
11/11/10 0950

**Matrix
S-Soil A-Air Sl-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

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Rev. 3/2006

Chain of Custody

Page 1 of 1

Company: USACE
Project Contact: DEREK KINDER
Telephone: 502 315 6393
Project Name: ORE PILES
Project Number: —
Project Location: RAVENNA AAP
Sampled By:

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other CERCLA

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Turnaround Time
Normal RUSH*
Date Needed _____

*Notify Lab prior to sending in RUSH samples. Surcharges:
24 hr 200% 2-3 days 100% 4-9 days 50%,
subject to change without notice.

Lab Use Only
Place Header Sticker Here.
82424

Mail Report To:
Company:
Address:
City/State/Zip:

Invoice To:
Company:
Address:
City/State/Zip:

PO No.

Client Special Instructions:

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Landfill License Number:

Collection Date	Collection Time	Grab/ Comp	Sample ID Description	WDNR Well ID #	**Matrix:	TAL Metals + Cr VI + Mercury	Asbestos	Total # of Containers	Preservation*	Lab ID #
				Filt? Y/N						
				Fill in Spaces with Bottles per Test						
11/9/10	1600	MI	DLAss-026-0001-SO		Soil	X	X			870207
11/9/10	1620	"	DLAss-029-0001-SO		"	X	X			870208
11/9/10	0900	"	DLAss-007-0001-SO		"	X	X			870209
11/9/10	1000	"	DLAss-020-0001-SO		"	X	X			870210
11/9/10	1549	"	DLAss-028-0001-SO		"	X	X			870211

* Preservation Code
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

Relinquished By:	Date/Time	Relinquished By:	Date/Time
Derek Kinder	11/10/10 1600		
Received by:	Date/Time	Received for Laboratory by:	Date/Time
Fed ex	11/10/10 1600		11/11/11 1140

Ice Present (Yes) No
Temperature 2.6
Cooler # GPL Cooler
11/11/10 0550 yls

**Matrix
S-Soil A-Air Sl-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

Rev. 3/2006

Chain of Custody

Page 1 of 1

Company: USACE
Project Contact: DEREK KINDER
Telephone: 5023156393
Project Name: ORE PILES
Project Number: —
Project Location: RAVENNA AAP
Sampled By:

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other _____

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Turnaround Time
(Normal) RUSH*
Date Needed _____

*Notify Lab prior to sending in RUSH samples. Surcharges:
24 hr 200% 2-3 days 100% 4-9 days 50%,
subject to change without notice.

Lab Use Only
Place Header Sticker Here:

82424

Mail Report To:
Company:
Address:
City/State/Zip:

Invoice To:
Company:
Address:
City/State/Zip:

PO No.

Client Special Instructions:
Metals include
Cr VI + Mercury

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Landfill License Number:

Collection Date	Collection Time	Grab/ Comp	Sample ID Description	Filt? Y/N	WDNR Well ID #	**Matrix:	Explosives + Propellents	Metals	SVOC	PCB	Pesticides	Asbestos			Total # of Containers	Preservation*	Lab ID #
					Fill in Spaces with Bottles per Test												
11/09/10	1025	MI	DLASS-002-0003-SO			S	X	X	X	X	X	X					870212
11/09/10	1630	MI	DLASS-012-0001-SO			S		X				X					870213
11/09/10	1500	MI	DLASS-025-0001-SO			S		X				X					870214
11/09/10	0900	MI	DLASS-006-0001-SO			S		X				X					870215
11/09/10	1458	MI	DLASS-013-0001-SO			S		X				X					870216

Relinquished By:	Date/Time	Relinquished By:	Date/Time
Derek Kinder	11/10/10 1800		
Received by:	Date/Time	Received for Laboratory by:	Date/Time
Fed ex			11/11/10 1140

Ice Present (Yes) No
Temperature 1.8
Cooler # 3376
11/11/10 0950

**Matrix
S-Soil A-Air Sl-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

* Preservation Code
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

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QC SUMMARY REPORT

USACE - LOUISVILLE **Project Name: RAVENNA**

SDG #: 0 **Folder #: 82424** **Project Number: W912QR-10-D-0024**

Duplicate

Analytical Run #:	71954	Analysis Date:	11/22/2010	Prep Batch #:		Matrix:	SOIL
CTLab #:	874181	Analysis Time:	12:30	Prep Date/Time:		Method:	E160.3
Parent Sample #:	870201	Analyst:	JTG	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Solids, Percent	96.8	%	96.9					0	5

Duplicate

Analytical Run #:	71974	Analysis Date:	11/23/2010	Prep Batch #:	35540	Matrix:	SOIL
CTLab #:	874623	Analysis Time:	14:30	Prep Date/Time:	11/23/2010 08:30	Method:	SW7196
Parent Sample #:	870201	Analyst:	JTG	Prep Analyst:	JTG		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Hexavalent Chromium	1.96	mg/kg	0.0	U				0	30

Lab Control Spike Soil

Analytical Run #:	71974	Analysis Date:	11/23/2010	Prep Batch #:	35540	Matrix:	SOLID
CTLab #:	874622	Analysis Time:	14:30	Prep Date/Time:	11/23/2010 08:30	Method:	SW7196
Parent Sample #:		Analyst:	JTG	Prep Analyst:	JTG		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Hexavalent Chromium	20.7	mg/kg			20.0	104	83 --- 115		

Method Blank Soil

Analytical Run #:	71974	Analysis Date:	11/23/2010	Prep Batch #:	35540	Matrix:	SOLID
CTLab #:	874621	Analysis Time:	14:30	Prep Date/Time:	11/23/2010 08:30	Method:	SW7196
Parent Sample #:		Analyst:	JTG	Prep Analyst:	JTG		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Hexavalent Chromium	3.2	mg/kg		U	0		3.2		

Matrix Spike Soil

Analytical Run #:	71974	Analysis Date:	11/23/2010	Prep Batch #:	35540	Matrix:	SOIL
CTLab #:	874624	Analysis Time:	14:30	Prep Date/Time:	11/23/2010 08:30	Method:	SW7196
Parent Sample #:	870201	Analyst:	JTG	Prep Analyst:	JTG		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Hexavalent Chromium	33.2	mg/kg	0		413	8	75 --- 125		

Matrix Spike Soil

Analytical Run #:	71974	Analysis Date:	11/23/2010	Prep Batch #:	35540	Matrix:	SOIL
CTLab #:	875415	Analysis Time:	14:30	Prep Date/Time:	11/23/2010 08:30	Method:	SW7196
Parent Sample #:	870201	Analyst:	JTG	Prep Analyst:	JTG		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Hexavalent Chromium	1.96	mg/kg	0	U	41.3	0	75 --- 125		

Duplicate

Analytical Run #:	72192	Analysis Date:	12/2/2010	Prep Batch #:		Matrix:	SOIL
CTLab #:	877494	Analysis Time:	17:00	Prep Date/Time:		Method:	E160.3
Parent Sample #:	870189	Analyst:	KMB	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Solids, Percent	98.0	%	98.1					0	5

Duplicate

Analytical Run #:	72278	Analysis Date:	12/7/2010	Prep Batch #:	35690	Matrix:	SOIL
CTLab #:	878294	Analysis Time:	13:50	Prep Date/Time:	12/07/2010 09:00	Method:	SW7196
Parent Sample #:	870189	Analyst:	JTG	Prep Analyst:	JTG		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Hexavalent Chromium	1.94	mg/kg	0.0	U				0	30

Lab Control Spike Soil

Analytical Run #:	72278	Analysis Date:	12/7/2010	Prep Batch #:	35690	Matrix:	SOLID
CTLab #:	878293	Analysis Time:	13:50	Prep Date/Time:	12/07/2010 09:00	Method:	SW7196
Parent Sample #:		Analyst:	JTG	Prep Analyst:	JTG		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Hexavalent Chromium	19.6	mg/kg			20.0	98	83 --- 115		

Lab Control Spike Soil

Analytical Run #:	72278	Analysis Date:	12/13/2010	Prep Batch #:	35690	Matrix:	SOLID
CTLab #:	880654	Analysis Time:	13:00	Prep Date/Time:	12/07/2010 09:00	Method:	SW7196
Parent Sample #:		Analyst:	JTG	Prep Analyst:	JTG		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Hexavalent Chromium	21.0	mg/kg			20.0	105	83 --- 115		

Method Blank Soil

Analytical Run #:	72278	Analysis Date:	12/7/2010	Prep Batch #:	35690	Matrix:	SOLID
CTLab #:	878292	Analysis Time:	13:50	Prep Date/Time:	12/07/2010 09:00	Method:	SW7196
Parent Sample #:		Analyst:	JTG	Prep Analyst:	JTG		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Hexavalent Chromium	3.2	mg/kg		U	0		3.2		

Method Blank Soil

Analytical Run #:	72278	Analysis Date:	12/13/2010	Prep Batch #:	35690	Matrix:	SOLID
CTLab #:	880653	Analysis Time:	13:00	Prep Date/Time:	12/07/2010 09:00	Method:	SW7196
Parent Sample #:		Analyst:	JTG	Prep Analyst:	JTG		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Hexavalent Chromium	3.2	mg/kg		U	0		3.2		

Matrix Spike Soil

Analytical Run #:	72278	Analysis Date:	12/7/2010	Prep Batch #:	35690	Matrix:	SOIL
CTLab #:	878296	Analysis Time:	13:50	Prep Date/Time:	12/07/2010 09:00	Method:	SW7196
Parent Sample #:	870189	Analyst:	JTG	Prep Analyst:	JTG		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Hexavalent Chromium	3.02	mg/kg	0		40.8	7	75 --- 125		

Matrix Spike Soil

Analytical Run #:	72278	Analysis Date:	12/7/2010	Prep Batch #:	35690	Matrix:	SOIL
CTLab #:	878297	Analysis Time:	13:50	Prep Date/Time:	12/07/2010 09:00	Method:	SW7196
Parent Sample #:	870189	Analyst:	JTG	Prep Analyst:	JTG		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Hexavalent Chromium	2.00	mg/kg	0		40.8	5	75 --- 125		

Duplicate

Analytical Run #:	72342	Analysis Date:	12/8/2010	Prep Batch #:	35712	Matrix:	SOIL
CTLab #:	879012	Analysis Time:	16:00	Prep Date/Time:	12/08/2010 12:00	Method:	SW7196
Parent Sample #:	870194	Analyst:	CES	Prep Analyst:	CES		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Hexavalent Chromium	1.93	mg/kg	0	U				0	30

Lab Control Spike Soil

Analytical Run #:	72342	Analysis Date:	12/8/2010	Prep Batch #:	35712	Matrix:	SOLID
CTLab #:	879011	Analysis Time:	16:00	Prep Date/Time:	12/08/2010 12:00	Method:	SW7196
Parent Sample #:		Analyst:	CES	Prep Analyst:	CES		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Hexavalent Chromium	17.7	mg/kg			20.0	88	83 --- 115		

Method Blank Soil

Analytical Run #:	72342	Analysis Date:	12/8/2010	Prep Batch #:	35712	Matrix:	SOLID
CTLab #:	879010	Analysis Time:	16:00	Prep Date/Time:	12/08/2010 12:00	Method:	SW7196
Parent Sample #:		Analyst:	CES	Prep Analyst:	CES		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Hexavalent Chromium	3.2	mg/kg		U	0		3.2		

Matrix Spike Soil

Analytical Run #:	72342	Analysis Date:	12/8/2010	Prep Batch #:	35712	Matrix:	SOIL
CTLab #:	879013	Analysis Time:	16:00	Prep Date/Time:	12/08/2010 12:00	Method:	SW7196
Parent Sample #:	870194	Analyst:	CES	Prep Analyst:	CES		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Hexavalent Chromium	1.93	mg/kg	0	U	40.7	0	75 --- 125		

Matrix Spike Soil

Analytical Run #:	72342	Analysis Date:	12/8/2010	Prep Batch #:	35712	Matrix:	SOIL
CTLab #:	879014	Analysis Time:	16:00	Prep Date/Time:	12/08/2010 12:00	Method:	SW7196
Parent Sample #:	870194	Analyst:	CES	Prep Analyst:	CES		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Hexavalent Chromium	24.6	mg/kg	0		407	6	75 --- 125		

Lab Control Spike Soil

Analytical Run #:	72420	Analysis Date:	12/11/2010	Prep Batch #:	35693	Matrix:	SOLID
CTLab #:	878498	Analysis Time:	19:49	Prep Date/Time:	12/08/2010 08:00	Method:	SW9056M
Parent Sample #:		Analyst:	BMS	Prep Analyst:	BMS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Nitrocellulose	519	mg/kg			500	104	70 --- 130		

Method Blank Soil

Analytical Run #:	72420	Analysis Date:	12/11/2010	Prep Batch #:	35693	Matrix:	SOLID
CTLab #:	878497	Analysis Time:	20:07	Prep Date/Time:	12/08/2010 08:00	Method:	SW9056M
Parent Sample #:		Analyst:	BMS	Prep Analyst:	BMS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Nitrocellulose	7	mg/kg		U	0		7		

Matrix Spike Duplicate Soil

Analytical Run #:	72420	Analysis Date:	12/11/2010	Prep Batch #:	35693	Matrix:	SOIL
CTLab #:	878500	Analysis Time:	20:54	Prep Date/Time:	12/08/2010 08:00	Method:	SW9056M
Parent Sample #:	878499	Analyst:	BMS	Prep Analyst:	BMS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Nitrocellulose	383	mg/kg	0		500	77	70 --- 130	5	20

Matrix Spike Soil

Analytical Run #:	72420	Analysis Date:	12/11/2010	Prep Batch #:	35693	Matrix:	SOIL
CTLab #:	878499	Analysis Time:	20:38	Prep Date/Time:	12/08/2010 08:00	Method:	SW9056M
Parent Sample #:	870189	Analyst:	BMS	Prep Analyst:	BMS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Nitrocellulose	364	mg/kg	0		500	73	70 --- 130		

Duplicate

Analytical Run #:	71910	Analysis Date:	11/19/2010	Prep Batch #:	35475	Matrix:	SOIL
CTLab #:	873481	Analysis Time:	20:36	Prep Date/Time:	11/18/2010 17:30	Method:	SW6010
Parent Sample #:	870201	Analyst:	NAH	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aluminum	9600	mg/kg	197000.					6	20
Antimony	1.6	mg/kg	47.4					40	20
Arsenic	9.8	mg/kg	209.					10	20
Barium	89.3	mg/kg	1830.					6	20
Beryllium	0.60	mg/kg	12.2					5	20
Cadmium	0.96	mg/kg	20.4					9	20
Calcium	2840	mg/kg	22300.					1	20
Chromium	147	mg/kg	1210.					6	20
Cobalt	10.3	mg/kg	84.4					6	20
Copper	13.7	mg/kg	282.					6	20
Iron	21600	mg/kg	437000.					4	20
Lead	30.4	mg/kg	590.					0	20
Magnesium	2490	mg/kg	19700.					2	20
Manganese	697	mg/kg	14300.					6	20
Nickel	19.9	mg/kg	160.					4	20
Selenium	1.1	mg/kg	16.9					19	20
Silver	0.11	mg/kg	2.84					25	20
Thallium	0.37	mg/kg	7.15					87	20
Vanadium	21.4	mg/kg	441.					6	20
Zinc	45.5	mg/kg	923.					5	20

Lab Control Spike Soil

Analytical Run #:	71910	Analysis Date:	11/19/2010	Prep Batch #:	35475	Matrix:	SOLID
CTLab #:	873323	Analysis Time:	19:46	Prep Date/Time:	11/18/2010 17:30	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aluminum	93.3	mg/kg			100	93	80 --- 120		
Antimony	25.0	mg/kg			25.0	100	80 --- 120		
Arsenic	91.3	mg/kg			100	91	80 --- 120		
Barium	104	mg/kg			100	104	80 --- 120		
Beryllium	2.6	mg/kg			2.5	104	80 --- 120		
Cadmium	2.3	mg/kg			2.5	92	80 --- 120		
Calcium	4930	mg/kg			5000	99	80 --- 120		
Chromium	9.1	mg/kg			10.0	91	80 --- 120		
Cobalt	24.6	mg/kg			25.0	98	80 --- 120		
Copper	11.5	mg/kg			12.5	92	80 --- 120		
Iron	50.5	mg/kg			50.0	101	80 --- 120		
Lead	21.0	mg/kg			25.0	84	80 --- 120		
Magnesium	2400	mg/kg			2500	96	80 --- 120		
Manganese	22.0	mg/kg			25.0	88	80 --- 120		
Nickel	22.2	mg/kg			25.0	89	80 --- 120		
Selenium	90.0	mg/kg			100	90	80 --- 120		
Silver	2.3	mg/kg			2.5	92	75 --- 120		
Thallium	82.5	mg/kg			100	82	80 --- 120		
Vanadium	24.1	mg/kg			25.0	96	80 --- 120		
Zinc	22.2	mg/kg			25.0	89	80 --- 120		

Method Blank Soil

Analytical Run #:	71910	Analysis Date:	11/19/2010	Prep Batch #:	35475	Matrix:	SOLID
CTLab #:	873322	Analysis Time:	20:13	Prep Date/Time:	11/18/2010 17:30	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aluminum	1.2	mg/kg			0		0.06		
Antimony	0.135	mg/kg		U	0		0.135		
Arsenic	0.225	mg/kg		U	0		0.225		
Barium	0.0135	mg/kg		U	0		.0135		
Beryllium	0.060	mg/kg		U	0		0.060		
Cadmium	0.0105	mg/kg		U	0		.0105		
Calcium	0.25	mg/kg		U	0		0.25		
Chromium	0.0315	mg/kg		U	0		.0315		
Cobalt	0.0245	mg/kg		U	0		.0245		
Copper	0.10	mg/kg		U	0		0.10		
Iron	1.9	mg/kg			0		0.5		
Lead	0.07	mg/kg		U	0		0.07		
Magnesium	0.20	mg/kg		U	0		0.20		
Manganese	0.11	mg/kg			0		0.025		
Nickel	0.0305	mg/kg		U	0		.0305		
Selenium	0.21	mg/kg		U	0		0.21		
Silver	0.028	mg/kg		U	0		0.028		
Thallium	0.07	mg/kg		U	0		0.07		
Vanadium	0.033	mg/kg			0		0.017		
Zinc	0.06	mg/kg		U	0		0.06		

Matrix Spike Duplicate Soil

Analytical Run #:	71910	Analysis Date:	11/19/2010	Prep Batch #:	35475	Matrix:	SOIL
CTLab #:	873484	Analysis Time:	20:47	Prep Date/Time:	11/18/2010 17:30	Method:	SW6010
Parent Sample #:	873483	Analyst:	NAH	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aluminum	15300	mg/kg	10200		5260	97	80 --- 120	6	20
Antimony	7.5	mg/kg	2.4		25.8	20	80 --- 120	122	20
Arsenic	101	mg/kg	10.8		103	88	80 --- 120	3	20
Barium	205	mg/kg	94.4		103	107	80 --- 120	5	20
Beryllium	3.3	mg/kg	0.63		2.6	103	80 --- 120	5	20
Cadmium	3.4	mg/kg	1.1		2.6	88	80 --- 120	3	20
Calcium	8270	mg/kg	2880		5160	104	80 --- 120	2	20
Chromium	137	mg/kg	156		10.3	-184	80 --- 120	1	20
Cobalt	33.4	mg/kg	10.9		25.8	87	80 --- 120	1	20
Copper	25.8	mg/kg	14.6		12.9	87	80 --- 120	4	20
Iron	27200	mg/kg	22500		5210	90	80 --- 120	6	20
Lead	52.6	mg/kg	30.4		25.8	86	80 --- 120	3	20
Magnesium	5340	mg/kg	2540		2580	109	80 --- 120	1	20
Manganese	738	mg/kg	738		542	0	80 --- 120	5	20
Nickel	43.7	mg/kg	20.6		25.8	90	80 --- 120	0	20
Selenium	85.1	mg/kg	0.87		103	82	80 --- 120	5	20
Silver	2.0	mg/kg	0.15		2.6	71	75 --- 120	5	20
Thallium	77.9	mg/kg	0.92		103	75	80 --- 120	3	20
Vanadium	47.2	mg/kg	22.8		25.8	95	80 --- 120	5	20
Zinc	70.2	mg/kg	47.6		25.8	88	80 --- 120	5	20

Matrix Spike Soil

Analytical Run #:	71910	Analysis Date:	11/19/2010	Prep Batch #:	35475	Matrix:	SOIL
CTLab #:	873483	Analysis Time:	20:41	Prep Date/Time:	11/18/2010 17:30	Method:	SW6010
Parent Sample #:	870201	Analyst:	NAH	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aluminum	14400	mg/kg	10200		5260	80	80 --- 120		
Antimony	1.8	mg/kg	2.4		25.8	-2	80 --- 120		
Arsenic	98.0	mg/kg	10.8		103	85	80 --- 120		
Barium	196	mg/kg	94.4		103	99	80 --- 120		
Beryllium	3.2	mg/kg	0.63		2.6	99	80 --- 120		
Cadmium	3.3	mg/kg	1.1		2.6	85	80 --- 120		
Calcium	8100	mg/kg	2880		5160	101	80 --- 120		
Chromium	135	mg/kg	156		10.3	-204	80 --- 120		
Cobalt	33.2	mg/kg	10.9		25.8	86	80 --- 120		
Copper	24.7	mg/kg	14.6		12.9	78	80 --- 120		
Iron	25500	mg/kg	22500		5210	58	80 --- 120		
Lead	50.8	mg/kg	30.4		25.8	79	80 --- 120		
Magnesium	5420	mg/kg	2540		2580	112	80 --- 120		
Manganese	702	mg/kg	738		542	-7	80 --- 120		
Nickel	43.6	mg/kg	20.6		25.8	89	80 --- 120		
Selenium	81.0	mg/kg	0.87		103	78	80 --- 120		
Silver	1.9	mg/kg	0.15		2.6	67	75 --- 120		
Thallium	75.3	mg/kg	0.92		103	72	80 --- 120		
Vanadium	45.0	mg/kg	22.8		25.8	86	80 --- 120		
Zinc	67.1	mg/kg	47.6		25.8	76	80 --- 120		

Duplicate

Analytical Run #:	71911	Analysis Date:	11/22/2010	Prep Batch #:	35475	Matrix:	SOIL
CTLab #:	873481	Analysis Time:	07:53	Prep Date/Time:	11/18/2010 17:30	Method:	SW6010
Parent Sample #:	870201	Analyst:	NAH	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Potassium	935	mg/kg	37.6					1	20

Duplicate

Analytical Run #:	71911	Analysis Date:	11/22/2010	Prep Batch #:	35475	Matrix:	SOIL
CTLab #:	873481	Analysis Time:	07:53	Prep Date/Time:	11/18/2010 17:30	Method:	SW6010
Parent Sample #:	870201	Analyst:	NAH	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sodium	52.5	mg/kg	2.12					1	20

Lab Control Spike Soil

Analytical Run #:	71911	Analysis Date:	11/22/2010	Prep Batch #:	35475	Matrix:	SOLID
CTLab #:	873323	Analysis Time:	07:41	Prep Date/Time:	11/18/2010 17:30	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Potassium	2340	mg/kg			2500	94	80 --- 120		

Lab Control Spike Soil

Analytical Run #:	71911	Analysis Date:	11/22/2010	Prep Batch #:	35475	Matrix:	SOLID
CTLab #:	873323	Analysis Time:	07:41	Prep Date/Time:	11/18/2010 17:30	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sodium	2190	mg/kg			2500	88	80 --- 120		

Method Blank Soil

Analytical Run #:	71911	Analysis Date:	11/22/2010	Prep Batch #:	35475	Matrix:	SOLID
CTLab #:	873322	Analysis Time:	07:43	Prep Date/Time:	11/18/2010 17:30	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Potassium	18	mg/kg		U	0		18		

Method Blank Soil

Analytical Run #:	71911	Analysis Date:	11/22/2010	Prep Batch #:	35475	Matrix:	SOLID
CTLab #:	873322	Analysis Time:	07:43	Prep Date/Time:	11/18/2010 17:30	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sodium	6.5	mg/kg		U	0		6.5		

Matrix Spike Duplicate Soil

Analytical Run #:	71911	Analysis Date:	11/22/2010	Prep Batch #:	35475	Matrix:	SOIL
CTLab #:	873484	Analysis Time:	07:58	Prep Date/Time:	11/18/2010 17:30	Method:	SW6010
Parent Sample #:	873483	Analyst:	NAH	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Potassium	3130	mg/kg	940		2500	88	80 --- 120	1	20

Matrix Spike Duplicate Soil

Analytical Run #:	71911	Analysis Date:	11/22/2010	Prep Batch #:	35475	Matrix:	SOIL
CTLab #:	873484	Analysis Time:	07:58	Prep Date/Time:	11/18/2010 17:30	Method:	SW6010
Parent Sample #:	873483	Analyst:	NAH	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sodium	2150	mg/kg	55.5		2500	84	80 --- 120	1	20

Matrix Spike Soil

Analytical Run #:	71911	Analysis Date:	11/22/2010	Prep Batch #:	35475	Matrix:	SOIL
CTLab #:	873483	Analysis Time:	07:55	Prep Date/Time:	11/18/2010 17:30	Method:	SW6010
Parent Sample #:	870201	Analyst:	NAH	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Potassium	3150	mg/kg	940		2500	88	80 --- 120		

Matrix Spike Soil

Analytical Run #:	71911	Analysis Date:	11/22/2010	Prep Batch #:	35475	Matrix:	SOIL
CTLab #:	873483	Analysis Time:	07:55	Prep Date/Time:	11/18/2010 17:30	Method:	SW6010
Parent Sample #:	870201	Analyst:	NAH	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sodium	2120	mg/kg	55.5		2500	83	80 --- 120		

Duplicate

Analytical Run #:	72018	Analysis Date:	11/24/2010	Prep Batch #:	35531	Matrix:	SOIL
CTLab #:	874584	Analysis Time:	09:50	Prep Date/Time:	11/23/2010 15:30	Method:	
Parent Sample #:	870201	Analyst:	GCE	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.039	mg/kg	0.94					4	20

Lab Control Spike Soil

Analytical Run #:	72018	Analysis Date:	11/24/2010	Prep Batch #:	35531	Matrix:	SOLID
CTLab #:	874583	Analysis Time:	09:40	Prep Date/Time:	11/23/2010 15:30	Method:	
Parent Sample #:		Analyst:	GCE	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.079	mg/kg			0.083	95	80 --- 120		

Method Blank Soil

Analytical Run #:	72018	Analysis Date:	11/24/2010	Prep Batch #:	35531	Matrix:	SOLID
CTLab #:	874582	Analysis Time:	09:42	Prep Date/Time:	11/23/2010 15:30	Method:	
Parent Sample #:		Analyst:	GCE	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.00395	mg/kg		U	0		00395		

Matrix Spike Duplicate Soil

Analytical Run #:	72018	Analysis Date:	11/24/2010	Prep Batch #:	35531	Matrix:	SOIL
CTLab #:	874586	Analysis Time:	09:53	Prep Date/Time:	11/23/2010 15:30	Method:	
Parent Sample #:	874585	Analyst:	GCE	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.13	mg/kg	0.040		0.087	103	80 --- 120	14	20

Matrix Spike Soil

Analytical Run #:	72018	Analysis Date:	11/24/2010	Prep Batch #:	35531	Matrix:	SOIL
CTLab #:	874585	Analysis Time:	09:51	Prep Date/Time:	11/23/2010 15:30	Method:	
Parent Sample #:	870201	Analyst:	GCE	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.11	mg/kg	0.040		0.089	79	80 --- 120		

Duplicate

Analytical Run #:	72203	Analysis Date:	12/3/2010	Prep Batch #:	35624	Matrix:	SOIL
CTLab #:	877409	Analysis Time:	19:23	Prep Date/Time:	12/02/2010 16:30	Method:	SW6010
Parent Sample #:	870189	Analyst:	NAH	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aluminum	11200	mg/kg	214000.					2	20
Antimony	88.7	mg/kg	1950.					11	20
Arsenic	10.3	mg/kg	199.					2	20
Barium	117	mg/kg	2370.					3	20
Beryllium	0.59	mg/kg	11.1					4	20
Cadmium	0.21	mg/kg	5.77					32	20
Calcium	3730	mg/kg	73400.					0	20
Chromium	106	mg/kg	2150.					3	20
Cobalt	9.2	mg/kg	178.					2	20
Copper	11.6	mg/kg	203.					12	20
Iron	27700	mg/kg	585000.					7	20
Lead	50.8	mg/kg	954.					4	20
Magnesium	2490	mg/kg	45000.					8	20
Manganese	1470	mg/kg	29600.					3	20
Nickel	12.7	mg/kg	252.					1	20
Selenium	0.49	mg/kg	33.6					111	20
Silver	0.0347	mg/kg	2.88	U				312	20
Thallium	0.84	mg/kg	13.6					19	20
Vanadium	21.6	mg/kg	421.					0	20
Zinc	60.1	mg/kg	1150.					3	20

Lab Control Spike Soil

Analytical Run #:	72203	Analysis Date:	12/3/2010	Prep Batch #:	35624	Matrix:	SOLID
CTLab #:	877408	Analysis Time:	18:55	Prep Date/Time:	12/02/2010 16:30	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aluminum	101	mg/kg			100	101	80 --- 120		
Antimony	23.5	mg/kg			25.0	94	80 --- 120		
Arsenic	92.8	mg/kg			100	93	80 --- 120		
Barium	98.8	mg/kg			100	99	80 --- 120		
Beryllium	2.3	mg/kg			2.5	92	80 --- 120		
Cadmium	2.2	mg/kg			2.5	88	80 --- 120		
Calcium	4730	mg/kg			5000	95	80 --- 120		
Chromium	8.8	mg/kg			10.0	88	80 --- 120		
Cobalt	24.7	mg/kg			25.0	99	80 --- 120		
Copper	10.8	mg/kg			12.5	86	80 --- 120		
Iron	47.8	mg/kg			50.0	96	80 --- 120		
Lead	21.4	mg/kg			25.0	86	80 --- 120		
Magnesium	2290	mg/kg			2500	92	80 --- 120		
Manganese	23.8	mg/kg			25.0	95	80 --- 120		
Nickel	21.9	mg/kg			25.0	88	80 --- 120		
Selenium	91.5	mg/kg			100	92	80 --- 120		
Silver	2.1	mg/kg			2.5	84	75 --- 120		
Thallium	83.8	mg/kg			100	84	80 --- 120		
Vanadium	22.2	mg/kg			25.0	89	80 --- 120		
Zinc	22.5	mg/kg			25.0	90	80 --- 120		

Method Blank Soil

Analytical Run #:	72203	Analysis Date:	12/3/2010	Prep Batch #:	35624	Matrix:	SOLID
CTLab #:	877407	Analysis Time:	19:01	Prep Date/Time:	12/02/2010 16:30	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aluminum	1.6	mg/kg			0		0.06		
Antimony	0.135	mg/kg		U	0		0.135		
Arsenic	0.225	mg/kg		U	0		0.225		
Barium	0.036	mg/kg			0		.0135		
Beryllium	0.060	mg/kg		U	0		0.060		
Cadmium	0.0105	mg/kg		U	0		.0105		
Calcium	2.3	mg/kg			0		0.25		
Chromium	0.0315	mg/kg		U	0		.0315		
Cobalt	0.0245	mg/kg		U	0		.0245		
Copper	0.10	mg/kg		U	0		0.10		
Iron	3.4	mg/kg			0		0.5		
Lead	0.07	mg/kg		U	0		0.07		
Magnesium	0.66	mg/kg			0		0.20		
Manganese	0.26	mg/kg			0		0.025		
Nickel	0.0305	mg/kg		U	0		.0305		
Selenium	0.21	mg/kg		U	0		0.21		
Silver	0.028	mg/kg		U	0		0.028		
Thallium	0.07	mg/kg		U	0		0.07		
Vanadium	0.017	mg/kg		U	0		0.017		
Zinc	0.06	mg/kg		U	0		0.06		

Matrix Spike Duplicate Soil

Analytical Run #:	72203	Analysis Date:	12/3/2010	Prep Batch #:	35624	Matrix:	SOIL
CTLab #:	877411	Analysis Time:	19:56	Prep Date/Time:	12/02/2010 16:30	Method:	SW6010
Parent Sample #:	877410	Analyst:	NAH	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aluminum	15300	mg/kg	10900		5150	85	80 --- 120	4	20
Antimony	76.5	mg/kg	99.4		25.5	-90	80 --- 120	8	20
Arsenic	95.8	mg/kg	10.1		102	84	80 --- 120	2	20
Barium	205	mg/kg	121		102	82	80 --- 120	6	20
Beryllium	2.8	mg/kg	0.57		2.5	89	80 --- 120	4	20
Cadmium	2.1	mg/kg	0.29		2.5	72	80 --- 120	8	20
Calcium	7900	mg/kg	3740		5100	82	80 --- 120	5	20
Chromium	95.8	mg/kg	110		10.2	-139	80 --- 120	4	20
Cobalt	27.5	mg/kg	9.1		25.5	72	80 --- 120	11	20
Copper	19.4	mg/kg	10.3		12.7	72	80 --- 120	1	20
Iron	27700	mg/kg	29800		5200	-40	80 --- 120	15	20
Lead	60.1	mg/kg	48.6		25.5	45	80 --- 120	14	20
Magnesium	4390	mg/kg	2290		2550	82	80 --- 120	22	20
Manganese	1170	mg/kg	1510		535	-64	80 --- 120	19	20
Nickel	30.7	mg/kg	12.8		25.5	70	80 --- 120	5	20
Selenium	75.4	mg/kg	1.7		102	72	80 --- 120	4	20
Silver	2.2	mg/kg	0.15		2.5	82	75 --- 120	5	20
Thallium	73.4	mg/kg	0.69		102	71	80 --- 120	3	20
Vanadium	41.3	mg/kg	21.5		25.5	78	80 --- 120	4	20
Zinc	73.9	mg/kg	58.6		25.5	60	80 --- 120	3	20

Matrix Spike Soil

Analytical Run #:	72203	Analysis Date:	12/3/2010	Prep Batch #:	35624	Matrix:	SOIL
CTLab #:	877410	Analysis Time:	19:50	Prep Date/Time:	12/02/2010 16:30	Method:	SW6010
Parent Sample #:	870189	Analyst:	NAH	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aluminum	15900	mg/kg	10900		5150	97	80 --- 120		
Antimony	70.8	mg/kg	99.4		25.5	-112	80 --- 120		
Arsenic	97.9	mg/kg	10.1		102	86	80 --- 120		
Barium	218	mg/kg	121		102	95	80 --- 120		
Beryllium	2.9	mg/kg	0.57		2.5	93	80 --- 120		
Cadmium	2.3	mg/kg	0.29		2.5	80	80 --- 120		
Calcium	8310	mg/kg	3740		5100	90	80 --- 120		
Chromium	91.7	mg/kg	110		10.2	-179	80 --- 120		
Cobalt	30.7	mg/kg	9.1		25.5	85	80 --- 120		
Copper	19.6	mg/kg	10.3		25.5	36	80 --- 120		
Iron	32300	mg/kg	29800		5150	49	80 --- 120		
Lead	52.5	mg/kg	48.6		25.5	15	80 --- 120		
Magnesium	5500	mg/kg	2290		2550	126	80 --- 120		
Manganese	1410	mg/kg	1510		535	-19	80 --- 120		
Nickel	32.4	mg/kg	12.8		25.5	77	80 --- 120		
Selenium	78.5	mg/kg	1.7		102	75	80 --- 120		
Silver	2.3	mg/kg	0.15		2.5	86	75 --- 120		
Thallium	75.4	mg/kg	0.69		102	73	80 --- 120		
Vanadium	42.9	mg/kg	21.5		25.5	84	80 --- 120		
Zinc	76.5	mg/kg	58.6		25.5	70	80 --- 120		

Duplicate

Analytical Run #:	72204	Analysis Date:	12/3/2010	Prep Batch #:	35624	Matrix:	SOIL
CTLab #:	877409	Analysis Time:	15:45	Prep Date/Time:	12/02/2010 16:30	Method:	SW6010
Parent Sample #:	870189	Analyst:	NAH	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Potassium	907	mg/kg	37.2					4	20

Duplicate

Analytical Run #:	72204	Analysis Date:	12/3/2010	Prep Batch #:	35624	Matrix:	SOIL
CTLab #:	877409	Analysis Time:	15:45	Prep Date/Time:	12/02/2010 16:30	Method:	SW6010
Parent Sample #:	870189	Analyst:	NAH	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sodium	45.9	mg/kg	1.88					4	20

Lab Control Spike Soil

Analytical Run #:	72204	Analysis Date:	12/3/2010	Prep Batch #:	35624	Matrix:	SOLID
CTLab #:	877408	Analysis Time:	15:32	Prep Date/Time:	12/02/2010 16:30	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Potassium	2250	mg/kg			2500	90	80 --- 120		

Lab Control Spike Soil

Analytical Run #:	72204	Analysis Date:	12/3/2010	Prep Batch #:	35624	Matrix:	SOLID
CTLab #:	877408	Analysis Time:	15:32	Prep Date/Time:	12/02/2010 16:30	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sodium	2090	mg/kg			2500	84	80 --- 120		

Method Blank Soil

Analytical Run #:	72204	Analysis Date:	12/3/2010	Prep Batch #:	35624	Matrix:	SOLID
CTLab #:	877407	Analysis Time:	15:35	Prep Date/Time:	12/02/2010 16:30	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Potassium	18	mg/kg		U	0		18		

Method Blank Soil

Analytical Run #:	72204	Analysis Date:	12/3/2010	Prep Batch #:	35624	Matrix:	SOLID
CTLab #:	877407	Analysis Time:	15:35	Prep Date/Time:	12/02/2010 16:30	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sodium	6.5	mg/kg		U	0		6.5		

Matrix Spike Duplicate Soil

Analytical Run #:	72204	Analysis Date:	12/3/2010	Prep Batch #:	35624	Matrix:	SOIL
CTLab #:	877411	Analysis Time:	15:49	Prep Date/Time:	12/02/2010 16:30	Method:	SW6010
Parent Sample #:	877410	Analyst:	NAH	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Potassium	2980	mg/kg	948		2550	80	80 --- 120	1	20

Matrix Spike Duplicate Soil

Analytical Run #:	72204	Analysis Date:	12/3/2010	Prep Batch #:	35624	Matrix:	SOIL
CTLab #:	877411	Analysis Time:	15:49	Prep Date/Time:	12/02/2010 16:30	Method:	SW6010
Parent Sample #:	877410	Analyst:	NAH	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sodium	2140	mg/kg	47.9		2550	82	80 --- 120	0	20

Matrix Spike Soil

Analytical Run #:	72204	Analysis Date:	12/3/2010	Prep Batch #:	35624	Matrix:	SOIL
CTLab #:	877410	Analysis Time:	15:47	Prep Date/Time:	12/02/2010 16:30	Method:	SW6010
Parent Sample #:	870189	Analyst:	NAH	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Potassium	3010	mg/kg	948		2550	81	80 --- 120		

Matrix Spike Soil

Analytical Run #:	72204	Analysis Date:	12/3/2010	Prep Batch #:	35624	Matrix:	SOIL
CTLab #:	877410	Analysis Time:	15:47	Prep Date/Time:	12/02/2010 16:30	Method:	SW6010
Parent Sample #:	870189	Analyst:	NAH	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sodium	2140	mg/kg	47.9		2550	82	80 --- 120		

Duplicate

Analytical Run #:	72327	Analysis Date:	12/8/2010	Prep Batch #:	35687	Matrix:	SOIL
CTLab #:	878274	Analysis Time:	14:09	Prep Date/Time:	12/07/2010 15:30	Method:	
Parent Sample #:	870189	Analyst:	GCE	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.12	mg/kg	2.47					6	20

Lab Control Spike Soil

Analytical Run #:	72327	Analysis Date:	12/8/2010	Prep Batch #:	35687	Matrix:	SOLID
CTLab #:	878272	Analysis Time:	13:59	Prep Date/Time:	12/07/2010 15:30	Method:	
Parent Sample #:		Analyst:	GCE	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.078	mg/kg			0.083	94	80 --- 120		

Method Blank Soil

Analytical Run #:	72327	Analysis Date:	12/8/2010	Prep Batch #:	35687	Matrix:	SOLID
CTLab #:	878271	Analysis Time:	14:01	Prep Date/Time:	12/07/2010 15:30	Method:	
Parent Sample #:		Analyst:	GCE	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.00395	mg/kg		U	0		00395		

Matrix Spike Duplicate Soil

Analytical Run #:	72327	Analysis Date:	12/8/2010	Prep Batch #:	35687	Matrix:	SOIL
CTLab #:	878276	Analysis Time:	14:16	Prep Date/Time:	12/07/2010 15:30	Method:	
Parent Sample #:	878275	Analyst:	GCE	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.17	mg/kg	0.11		0.088	68	80 --- 120	2	20

Matrix Spike Soil

Analytical Run #:	72327	Analysis Date:	12/8/2010	Prep Batch #:	35687	Matrix:	SOIL
CTLab #:	878275	Analysis Time:	14:10	Prep Date/Time:	12/07/2010 15:30	Method:	
Parent Sample #:	870189	Analyst:	GCE	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.18	mg/kg	0.11		0.093	75	80 --- 120		

Lab Control Spike Soil

Analytical Run #:	72009	Analysis Date:	11/24/2010	Prep Batch #:	35516	Matrix:	SOLID
CTLab #:	874140	Analysis Time:	11:48	Prep Date/Time:	11/22/2010 11:30	Method:	SW8082
Parent Sample #:		Analyst:	JJY	Prep Analyst:	BEL		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aroclor-1016	472	ug/kg			500	94	40 --- 140		30
Aroclor-1260	474	ug/kg			500	95	60 --- 130		30
Surr: DCBP	96.0	% Recovery			100	96.0	60 --- 125		30

Method Blank Soil

Analytical Run #:	72009	Analysis Date:	11/24/2010	Prep Batch #:	35516	Matrix:	SOLID
CTLab #:	874139	Analysis Time:	11:32	Prep Date/Time:	11/22/2010 11:30	Method:	SW8082
Parent Sample #:		Analyst:	JJY	Prep Analyst:	BEL		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aroclor-1016	25	ug/kg		U	0		25		
Aroclor-1221	25	ug/kg		U	0		25		
Aroclor-1232	25	ug/kg		U	0		25		
Aroclor-1242	25	ug/kg		U	0		25		
Aroclor-1248	25	ug/kg		U	0		25		
Aroclor-1254	25	ug/kg		U	0		25		
Aroclor-1260	25	ug/kg		U	0		25		
Aroclor-1262	25	ug/kg		U	0		25		
Aroclor-1268	25	ug/kg		U	0		25		
Surr: DCBP	89.0	% Recovery			100	89.0	60 --- 125		

Matrix Spike Duplicate Soil

Analytical Run #:	72009	Analysis Date:	11/24/2010	Prep Batch #:	35516	Matrix:	SOIL
CTLab #:	874138	Analysis Time:	14:26	Prep Date/Time:	11/22/2010 11:30	Method:	SW8082
Parent Sample #:	874137	Analyst:	JJY	Prep Analyst:	BEL		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aroclor-1016	445	ug/kg	0		514	87	40 --- 140	11	30
Aroclor-1260	456	ug/kg	0		514	89	60 --- 130	12	30
Surr: DCBP	83.9	% Recovery			100	83.9	60 --- 125		

Matrix Spike Soil

Analytical Run #:	72009	Analysis Date:	11/24/2010	Prep Batch #:	35516	Matrix:	SOIL
CTLab #:	874137	Analysis Time:	14:10	Prep Date/Time:	11/22/2010 11:30	Method:	SW8082
Parent Sample #:	870201	Analyst:	JJY	Prep Analyst:	BEL		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aroclor-1016	399	ug/kg	0		516	77	40 --- 140		
Aroclor-1260	407	ug/kg	0		516	79	60 --- 130		
Surr: DCBP	75.5	% Recovery			100	75.5	60 --- 125		

Lab Control Spike Soil

Analytical Run #:	72179	Analysis Date:	12/2/2010	Prep Batch #:	35517	Matrix:	SOLID
CTLab #:	874149	Analysis Time:	19:25	Prep Date/Time:	11/22/2010 10:00	Method:	SW8270
Parent Sample #:		Analyst:	RPN	Prep Analyst:	BEL		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	1580	ug/kg			2000	79	45 --- 110		30
1,2-Dichlorobenzene	1560	ug/kg			2000	78	45 --- 95		30
1,3-Dichlorobenzene	1510	ug/kg			2000	76	40 --- 100		30
1,4-Dichlorobenzene	1550	ug/kg			2000	78	35 --- 105		30
1-Methylnaphthalene	1640	ug/kg			2000	82	50 --- 150		30
2,4,5-Trichlorophenol	1750	ug/kg			2000	88	50 --- 110		30
2,4,6-Trichlorophenol	1710	ug/kg			2000	86	45 --- 110		30
2,4-Dichlorophenol	1700	ug/kg			2000	85	45 --- 110		30
2,4-Dimethylphenol	1630	ug/kg			2000	82	30 --- 105		30
2,4-Dinitrophenol	1020	ug/kg			2000	51	15 --- 130		30
2,4-Dinitrotoluene	1840	ug/kg			2000	92	50 --- 115		30
2,6-Dichlorophenol	1650	ug/kg			2000	82	48 --- 126		30
2,6-Dinitrotoluene	1800	ug/kg			2000	90	50 --- 110		30
2-Chloronaphthalene	1710	ug/kg			2000	86	45 --- 105		30
2-Chlorophenol	1600	ug/kg			2000	80	45 --- 105		30
2-Methylnaphthalene	1680	ug/kg			2000	84	45 --- 105		30
2-Methylphenol	1690	ug/kg			2000	84	40 --- 105		30
2-Nitroaniline	1830	ug/kg			2000	92	45 --- 120		30
2-Nitrophenol	1650	ug/kg			2000	82	40 --- 110		30
3 & 4-Methylphenol	1720	ug/kg			2000	86	40 --- 105		30
3,3'-Dichlorobenzidine	1590	ug/kg			2000	80	10 --- 130		30
3-Nitroaniline	1010	ug/kg			2000	50	25 --- 110		30
4,6-Dinitro-2-methylphenol	1570	ug/kg			2000	78	30 --- 135		30
4-Bromophenyl-phenyl ether	1820	ug/kg			2000	91	45 --- 115		30
4-Chloro-3-methylphenol	1740	ug/kg			2000	87	45 --- 115		30
4-Chloroaniline	558	ug/kg			2000	28	10 --- 95		30
4-Chlorophenyl-phenyl ether	1710	ug/kg			2000	86	45 --- 110		30
4-Nitroaniline	1870	ug/kg			2000	94	35 --- 115		30
4-Nitrophenol	1720	ug/kg			2000	86	15 --- 140		30
Acenaphthene	1730	ug/kg			2000	86	45 --- 110		30
Acenaphthylene	1730	ug/kg			2000	86	45 --- 105		30
Acetophenone	1600	ug/kg			2000	80	48 --- 126		30
Aniline	655	ug/kg			2000	33	14 --- 110		30
Anthracene	1750	ug/kg			2000	88	55 --- 105		30
Azobenzene & 1,2-Diphenylhydra	3420	ug/kg			4000	86	55 --- 115		30
Benzidine	0	ug/kg			2000	0	1 --- 161		30
Benzo(a)anthracene	1730	ug/kg			2000	86	50 --- 110		30
Benzo(a)pyrene	1720	ug/kg			2000	86	50 --- 110		30
Benzo(b)fluoranthene	1660	ug/kg			2000	83	45 --- 115		30
Benzo(g,h,i)perylene	1800	ug/kg			2000	90	40 --- 125		30
Benzo(k)fluoranthene	1730	ug/kg			2000	86	45 --- 125		30
Benzoic acid	610	ug/kg			2000	30	0 --- 110		30

Lab Control Spike Soil

Analytical Run #:	72179	Analysis Date:	12/2/2010	Prep Batch #:	35517	Matrix:	SOLID
CTLab #:	874149	Analysis Time:	19:25	Prep Date/Time:	11/22/2010 10:00	Method:	SW8270
Parent Sample #:		Analyst:	RPN	Prep Analyst:	BEL		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Benzyl alcohol	1600	ug/kg			2000	80	20 --- 125		30
Bis(2-chloroethoxy)methane	1670	ug/kg			2000	84	45 --- 110		30
Bis(2-chloroethyl)ether	1630	ug/kg			2000	82	40 --- 105		30
Bis(2-chloroisopropyl)ether	1600	ug/kg			2000	80	20 --- 115		30
Bis(2-ethylhexyl)phthalate	1770	ug/kg			2000	88	45 --- 125		30
Butylbenzylphthalate	1770	ug/kg			2000	88	50 --- 125		30
Carbazole	1820	ug/kg			2000	91	45 --- 115		30
Chrysene	1710	ug/kg			2000	86	55 --- 110		30
Di-n-butylphthalate	1880	ug/kg			2000	94	55 --- 110		30
Di-n-octylphthalate	1800	ug/kg			2000	90	40 --- 130		30
Dibenzo(a,h)anthracene	1820	ug/kg			2000	91	40 --- 125		30
Dibenzofuran	1740	ug/kg			2000	87	50 --- 105		30
Diethylphthalate	1790	ug/kg			2000	90	50 --- 115		30
Dimethylphthalate	1730	ug/kg			2000	86	50 --- 110		30
Fluoranthene	1720	ug/kg			2000	86	55 --- 115		30
Fluorene	1690	ug/kg			2000	84	50 --- 110		30
Hexachlorobenzene	1650	ug/kg			2000	82	45 --- 120		30
Hexachlorobutadiene	1530	ug/kg			2000	76	40 --- 115		30
Hexachlorocyclopentadiene	1540	ug/kg			2000	77	30 --- 137		30
Hexachloroethane	1510	ug/kg			2000	76	35 --- 110		30
Indeno(1,2,3-cd)pyrene	1790	ug/kg			2000	90	40 --- 120		30
Isophorone	1580	ug/kg			2000	79	45 --- 110		30
N-Nitroso-di-n-propylamine	1610	ug/kg			2000	80	40 --- 115		30
N-Nitrosodimethylamine	1130	ug/kg			2000	56	20 --- 115		30
N-Nitrosodiphenylamine & Diphn	3500	ug/kg			4000	88	50 --- 115		30
N-Nitrosopyrrolidine	1590	ug/kg			2000	80	59 --- 110		30
Naphthalene	1660	ug/kg			2000	83	40 --- 105		30
Nitrobenzene	1660	ug/kg			2000	83	40 --- 115		30
Pentachlorophenol	799	ug/kg			2000	40	25 --- 120		30
Phenanthrene	1730	ug/kg			2000	86	50 --- 110		30
Phenol	1660	ug/kg			2000	83	40 --- 100		30
Pyrene	1740	ug/kg			2000	87	45 --- 125		30
Pyridine	146	ug/kg			2000	7	16 --- 121		30
Surr: 2,4,6-Tribromophenol	91.9	% Recovery			100	91.9	35 --- 125		
Surr: 2-Fluorobiphenyl	86.6	% Recovery			100	86.6	45 --- 105		
Surr: 2-Fluorophenol	78.2	% Recovery			100	78.2	35 --- 105		
Surr: Nitrobenzene-d5	83.4	% Recovery			100	83.4	35 --- 100		
Surr: Phenol-d5	84.9	% Recovery			100	84.9	40 --- 100		
Surr: Terphenyl-d14	88.1	% Recovery			100	88.1	30 --- 125		

Method Blank Soil

Analytical Run #:	72179	Analysis Date:	12/2/2010	Prep Batch #:	35517	Matrix:	SOLID
CTLab #:	874148	Analysis Time:	19:05	Prep Date/Time:	11/22/2010 10:00	Method:	SW8270
Parent Sample #:		Analyst:	RPN	Prep Analyst:	BEL		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	200	ug/kg		U	0		200		
1,2-Dichlorobenzene	200	ug/kg		U	0		200		
1,3-Dichlorobenzene	200	ug/kg		U	0		200		
1,4-Dichlorobenzene	200	ug/kg		U	0		200		
1-Methylnaphthalene	200	ug/kg		U	0		200		
2,4,5-Trichlorophenol	250	ug/kg		U	0		250		
2,4,6-Trichlorophenol	250	ug/kg		U	0		250		
2,4-Dichlorophenol	250	ug/kg		U	0		250		
2,4-Dimethylphenol	200	ug/kg		U	0		200		
2,4-Dinitrophenol	1000	ug/kg		U	0		1000		
2,4-Dinitrotoluene	200	ug/kg		U	0		200		
2,6-Dichlorophenol	250	ug/kg		U	0		250		
2,6-Dinitrotoluene	200	ug/kg		U	0		200		
2-Chloronaphthalene	200	ug/kg		U	0		200		
2-Chlorophenol	250	ug/kg		U	0		250		
2-Methylnaphthalene	200	ug/kg		U	0		200		
2-Methylphenol	500	ug/kg		U	0		500		
2-Nitroaniline	200	ug/kg		U	0		200		
2-Nitrophenol	250	ug/kg		U	0		250		
3 & 4-Methylphenol	1000	ug/kg		U	0		1000		
3,3'-Dichlorobenzidine	250	ug/kg		U	0		250		
3-Nitroaniline	500	ug/kg		U	0		500		
4,6-Dinitro-2-methylphenol	500	ug/kg		U	0		500		
4-Bromophenyl-phenyl ether	200	ug/kg		U	0		200		
4-Chloro-3-methylphenol	250	ug/kg		U	0		250		
4-Chloroaniline	200	ug/kg		U	0		200		
4-Chlorophenyl-phenyl ether	200	ug/kg		U	0		200		
4-Nitroaniline	200	ug/kg		U	0		200		
4-Nitrophenol	500	ug/kg		U	0		500		
Acenaphthene	200	ug/kg		U	0		200		
Acenaphthylene	200	ug/kg		U	0		200		
Acetophenone	200	ug/kg		U	0		200		
Aniline	200	ug/kg		U	0		200		
Anthracene	200	ug/kg		U	0		200		
Azobenzene & 1,2-Diphenylhydra	400	ug/kg		U	0		400		
Benzidine	1000	ug/kg		U	0		1000		
Benzo(a)anthracene	200	ug/kg		U	0		200		
Benzo(a)pyrene	200	ug/kg		U	0		200		
Benzo(b)fluoranthene	200	ug/kg		U	0		200		
Benzo(g,h,i)perylene	200	ug/kg		U	0		200		
Benzo(k)fluoranthene	200	ug/kg		U	0		200		
Benzoic acid	291	ug/kg		U	0		291		

Method Blank Soil

Analytical Run #:	72179	Analysis Date:	12/2/2010	Prep Batch #:	35517	Matrix:	SOLID
CTLab #:	874148	Analysis Time:	19:05	Prep Date/Time:	11/22/2010 10:00	Method:	SW8270
Parent Sample #:		Analyst:	RPN	Prep Analyst:	BEL		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits			RPD	RPD Limit
Benzyl alcohol	500	ug/kg		U	0				500		
Bis(2-chloroethoxy)methane	200	ug/kg		U	0				200		
Bis(2-chloroethyl)ether	200	ug/kg		U	0				200		
Bis(2-chloroisopropyl)ether	200	ug/kg		U	0				200		
Bis(2-ethylhexyl)phthalate	500	ug/kg		U	0				500		
Butylbenzylphthalate	200	ug/kg		U	0				200		
Carbazole	200	ug/kg		U	0				200		
Chrysene	200	ug/kg		U	0				200		
Di-n-butylphthalate	200	ug/kg		U	0				200		
Di-n-octylphthalate	200	ug/kg		U	0				200		
Dibenzo(a,h)anthracene	200	ug/kg		U	0				200		
Dibenzofuran	200	ug/kg		U	0				200		
Diethylphthalate	200	ug/kg		U	0				200		
Dimethylphthalate	200	ug/kg		U	0				200		
Fluoranthene	200	ug/kg		U	0				200		
Fluorene	200	ug/kg		U	0				200		
Hexachlorobenzene	200	ug/kg		U	0				200		
Hexachlorobutadiene	200	ug/kg		U	0				200		
Hexachlorocyclopentadiene	200	ug/kg		U	0				200		
Hexachloroethane	200	ug/kg		U	0				200		
Indeno(1,2,3-cd)pyrene	200	ug/kg		U	0				200		
Isophorone	200	ug/kg		U	0				200		
N-Nitroso-di-n-propylamine	200	ug/kg		U	0				200		
N-Nitrosodimethylamine	200	ug/kg		U	0				200		
N-Nitrosodiphenylamine & Diphn	400	ug/kg		U	0				400		
N-Nitrosopyrrolidine	200	ug/kg		U	0				200		
Naphthalene	200	ug/kg		U	0				200		
Nitrobenzene	200	ug/kg		U	0				200		
Pentachlorophenol	500	ug/kg		U	0				500		
Phenanthrene	200	ug/kg		U	0				200		
Phenol	250	ug/kg		U	0				250		
Pyrene	200	ug/kg		U	0				200		
Pyridine	200	ug/kg		U	0				200		
Surr: 2,4,6-Tribromophenol	76.1	% Recovery			100	76.1	35	---	125		
Surr: 2-Fluorobiphenyl	87.2	% Recovery			100	87.2	45	---	105		
Surr: 2-Fluorophenol	77.4	% Recovery			100	77.4	35	---	105		
Surr: Nitrobenzene-d5	81.5	% Recovery			100	81.5	35	---	100		
Surr: Phenol-d5	84.3	% Recovery			100	84.3	40	---	100		
Surr: Terphenyl-d14	89.2	% Recovery			100	89.2	30	---	125		

Matrix Spike Duplicate Soil

Analytical Run #:	72179	Analysis Date:	12/2/2010	Prep Batch #:	35517	Matrix:	SOIL
CTLab #:	874147	Analysis Time:	20:26	Prep Date/Time:	11/22/2010 10:00	Method:	SW8270
Parent Sample #:	874146	Analyst:	RPN	Prep Analyst:	BEL		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	1700	ug/kg	0		2070	82	45 --- 110	3	30
1,2-Dichlorobenzene	1680	ug/kg	15		2070	80	45 --- 95	2	30
1,3-Dichlorobenzene	1650	ug/kg	0		2070	80	40 --- 100	3	30
1,4-Dichlorobenzene	1650	ug/kg	0		2070	80	35 --- 105	2	30
1-Methylnaphthalene	1780	ug/kg	29		2070	85	50 --- 150	3	30
2,4,5-Trichlorophenol	2010	ug/kg	0		2070	97	50 --- 110	3	30
2,4,6-Trichlorophenol	1910	ug/kg	0		2070	92	45 --- 110	4	30
2,4-Dichlorophenol	1890	ug/kg	0		2070	91	45 --- 110	4	30
2,4-Dimethylphenol	1810	ug/kg	0		2070	87	30 --- 105	7	30
2,4-Dinitrophenol	716	ug/kg	0	U	2070	16	15 --- 130	11	30
2,4-Dinitrotoluene	1950	ug/kg	0		2070	94	50 --- 115	3	30
2,6-Dichlorophenol	1850	ug/kg	0		2070	89	48 --- 126	6	30
2,6-Dinitrotoluene	1900	ug/kg	0		2070	92	50 --- 110	0	30
2-Chloronaphthalene	1810	ug/kg	0		2070	87	45 --- 105	3	30
2-Chlorophenol	1750	ug/kg	0		2070	85	45 --- 105	3	30
2-Methylnaphthalene	1820	ug/kg	35		2070	86	45 --- 105	3	30
2-Methylphenol	1880	ug/kg	0		2070	91	40 --- 105	2	30
2-Nitroaniline	1870	ug/kg	0		2070	90	45 --- 120	2	30
2-Nitrophenol	1720	ug/kg	0		2070	83	40 --- 110	3	30
3 & 4-Methylphenol	1940	ug/kg	0		2070	94	40 --- 105	3	30
3,3'-Dichlorobenzidine	40.4	ug/kg	0	U	2070	0	10 --- 130	0	30
3-Nitroaniline	306	ug/kg	0		2070	15	25 --- 110	18	30
4,6-Dinitro-2-methylphenol	1090	ug/kg	0		2070	53	30 --- 135	19	30
4-Bromophenyl-phenyl ether	1840	ug/kg	0		2070	89	45 --- 115	0	30
4-Chloro-3-methylphenol	1940	ug/kg	0		2070	94	45 --- 115	5	30
4-Chloroaniline	40.4	ug/kg	0	U	2070	2	10 --- 95	6	30
4-Chlorophenyl-phenyl ether	1860	ug/kg	0		2070	90	45 --- 110	3	30
4-Nitroaniline	686	ug/kg	0		2070	33	35 --- 115	22	30
4-Nitrophenol	1970	ug/kg	0		2070	95	15 --- 140	2	30
Acenaphthene	1850	ug/kg	16		2070	89	45 --- 110	2	30
Acenaphthylene	1820	ug/kg	9.2		2070	87	45 --- 105	2	30
Acetophenone	1710	ug/kg	0		2070	83	25 --- 96	0	30
Aniline	32.2	ug/kg	0	U	2070	1	14 --- 110	5	30
Anthracene	1850	ug/kg	37		2070	88	55 --- 105	3	30
Azobenzene & 1,2-Diphenylhydra	3700	ug/kg	0		4150	89	55 --- 115	5	30
Benzidine	40.4	ug/kg	0	U	2070	0	1 --- 161	0	30
Benzo(a)anthracene	2050	ug/kg	190		2070	90	50 --- 110	5	30
Benzo(a)pyrene	2010	ug/kg	180		2070	88	50 --- 110	7	30
Benzo(b)fluoranthene	2210	ug/kg	300		2070	92	45 --- 115	12	30
Benzo(g,h,i)perylene	1640	ug/kg	120		2070	73	40 --- 125	3	30
Benzo(k)fluoranthene	1950	ug/kg	130		2070	88	45 --- 125	1	30
Benzoic acid	649	ug/kg	980		2070	-16	0 --- 110	22	30

Matrix Spike Duplicate Soil

Analytical Run #:	72179	Analysis Date:	12/2/2010	Prep Batch #:	35517	Matrix:	SOIL
CTLab #:	874147	Analysis Time:	20:26	Prep Date/Time:	11/22/2010 10:00	Method:	SW8270
Parent Sample #:	874146	Analyst:	RPN	Prep Analyst:	BEL		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Benzyl alcohol	840	ug/kg	0		2070	41	20 --- 125	28	30
Bis(2-chloroethoxy)methane	1720	ug/kg	0		2070	83	45 --- 110	1	30
Bis(2-chloroethyl)ether	1680	ug/kg	0		2070	81	40 --- 105	1	30
Bis(2-chloroisopropyl)ether	1700	ug/kg	0		2070	82	20 --- 115	3	30
Bis(2-ethylhexyl)phthalate	2850	ug/kg	900		2070	94	45 --- 125	2	30
Butylbenzylphthalate	1940	ug/kg	10		2070	93	50 --- 125	3	30
Carbazole	1960	ug/kg	32		2070	93	45 --- 115	6	30
Chrysene	2070	ug/kg	210		2070	90	55 --- 110	5	30
Di-n-butylphthalate	2080	ug/kg	120		2070	95	55 --- 110	4	30
Di-n-octylphthalate	1960	ug/kg	0		2070	95	40 --- 130	3	30
Dibenzo(a,h)anthracene	1680	ug/kg	35		2070	79	40 --- 125	2	30
Dibenzofuran	1870	ug/kg	20		2070	89	50 --- 105	2	30
Diethylphthalate	1920	ug/kg	54		2070	90	50 --- 115	2	30
Dimethylphthalate	1840	ug/kg	0		2070	89	50 --- 110	3	30
Fluoranthene	2370	ug/kg	480		2070	91	55 --- 115	3	30
Fluorene	1860	ug/kg	20		2070	89	50 --- 110	2	30
Hexachlorobenzene	1810	ug/kg	0		2070	87	45 --- 120	3	30
Hexachlorobutadiene	1680	ug/kg	0		2070	81	40 --- 115	2	30
Hexachlorocyclopentadiene	817	ug/kg	0		2070	39	30 --- 137	1	30
Hexachloroethane	1600	ug/kg	0		2070	77	35 --- 110	2	30
Indeno(1,2,3-cd)pyrene	1760	ug/kg	120		2070	79	40 --- 120	1	30
Isophorone	1700	ug/kg	0		2070	82	45 --- 110	4	30
N-Nitroso-di-n-propylamine	1660	ug/kg	0		2070	80	40 --- 115	3	30
N-Nitrosodimethylamine	1430	ug/kg	0		2070	69	20 --- 115	1	30
N-Nitrosodiphenylamine & Diphn	3650	ug/kg	0		4150	88	50 --- 115	4	30
N-Nitrosopyrrolidine	1740	ug/kg	0		2070	84	59 --- 110	5	30
Naphthalene	1770	ug/kg	30		2070	84	40 --- 105	2	30
Nitrobenzene	1760	ug/kg	0		2070	85	40 --- 115	1	30
Pentachlorophenol	1610	ug/kg	0		2070	78	25 --- 120	6	30
Phenanthrene	2120	ug/kg	250		2070	90	50 --- 110	3	30
Phenol	1870	ug/kg	27		2070	89	40 --- 100	1	30
Pyrene	2290	ug/kg	370		2070	93	45 --- 125	5	30
Pyridine	40.4	ug/kg	0	U	2070	0	16 --- 121	0	30
Surr: 2,4,6-Tribromophenol	99.7	% Recovery			100	99.7	35 --- 125		
Surr: 2-Fluorobiphenyl	87.3	% Recovery			100	87.3	45 --- 105		
Surr: 2-Fluorophenol	84.6	% Recovery			100	84.6	35 --- 105		
Surr: Nitrobenzene-d5	87.4	% Recovery			100	87.4	35 --- 100		
Surr: Phenol-d5	85.6	% Recovery			100	85.6	40 --- 100		
Surr: Terphenyl-d14	90.0	% Recovery			100	90.0	30 --- 125		

Matrix Spike Soil

Analytical Run #:	72179	Analysis Date:	12/2/2010	Prep Batch #:	35517	Matrix:	SOIL
CTLab #:	874146	Analysis Time:	20:06	Prep Date/Time:	11/22/2010 10:00	Method:	SW8270
Parent Sample #:	870201	Analyst:	RPN	Prep Analyst:	BEL		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	1660	ug/kg	0		2070	80	45 --- 110		
1,2-Dichlorobenzene	1630	ug/kg	15		2070	78	45 --- 95		
1,3-Dichlorobenzene	1600	ug/kg	0		2070	77	40 --- 100		
1,4-Dichlorobenzene	1610	ug/kg	0		2070	78	35 --- 105		
1-Methylnaphthalene	1720	ug/kg	29		2070	82	50 --- 150		
2,4,5-Trichlorophenol	1950	ug/kg	0		2070	94	50 --- 110		
2,4,6-Trichlorophenol	1840	ug/kg	0		2070	89	45 --- 110		
2,4-Dichlorophenol	1810	ug/kg	0		2070	87	45 --- 110		
2,4-Dimethylphenol	1680	ug/kg	0		2070	81	30 --- 105		
2,4-Dinitrophenol	714	ug/kg	0	U	2070	18	15 --- 130		
2,4-Dinitrotoluene	1880	ug/kg	0		2070	91	50 --- 115		
2,6-Dichlorophenol	1730	ug/kg	0		2070	84	48 --- 126		
2,6-Dinitrotoluene	1890	ug/kg	0		2070	91	50 --- 110		
2-Chloronaphthalene	1750	ug/kg	0		2070	85	45 --- 105		
2-Chlorophenol	1710	ug/kg	0		2070	83	45 --- 105		
2-Methylnaphthalene	1760	ug/kg	35		2070	83	45 --- 105		
2-Methylphenol	1840	ug/kg	0		2070	89	40 --- 105		
2-Nitroaniline	1830	ug/kg	0		2070	88	45 --- 120		
2-Nitrophenol	1670	ug/kg	0		2070	81	40 --- 110		
3 & 4-Methylphenol	1890	ug/kg	0		2070	91	40 --- 105		
3,3'-Dichlorobenzidine	40.3	ug/kg	0	U	2070	0	10 --- 130		
3-Nitroaniline	253	ug/kg	0		2070	12	25 --- 110		
4,6-Dinitro-2-methylphenol	1320	ug/kg	0		2070	64	30 --- 135		
4-Bromophenyl-phenyl ether	1830	ug/kg	0		2070	88	45 --- 115		
4-Chloro-3-methylphenol	1850	ug/kg	0		2070	89	45 --- 115		
4-Chloroaniline	40.3	ug/kg	0	U	2070	1	10 --- 95		
4-Chlorophenyl-phenyl ether	1790	ug/kg	0		2070	86	45 --- 110		
4-Nitroaniline	546	ug/kg	0		2070	26	35 --- 115		
4-Nitrophenol	2010	ug/kg	0		2070	97	15 --- 140		
Acenaphthene	1810	ug/kg	16		2070	87	45 --- 110		
Acenaphthylene	1780	ug/kg	9.2		2070	86	45 --- 105		
Acetophenone	1700	ug/kg	0		2070	82	25 --- 96		
Aniline	32.1	ug/kg	0	U	2070	1	14 --- 110		
Anthracene	1800	ug/kg	37		2070	85	55 --- 105		
Azobenzene & 1,2-Diphenylhydra	3500	ug/kg	0		4140	85	55 --- 115		
Benzidine	40.3	ug/kg	0	U	2070	0	1 --- 161		
Benzo(a)anthracene	1950	ug/kg	190		2070	85	50 --- 110		
Benzo(a)pyrene	1870	ug/kg	180		2070	82	50 --- 110		
Benzo(b)fluoranthene	1960	ug/kg	300		2070	80	45 --- 115		
Benzo(g,h,i)perylene	1680	ug/kg	120		2070	75	40 --- 125		
Benzo(k)fluoranthene	1920	ug/kg	130		2070	86	45 --- 125		
Benzoic acid	809	ug/kg	980		2070	-8	0 --- 110		

Matrix Spike Soil

Analytical Run #:	72179	Analysis Date:	12/2/2010	Prep Batch #:	35517	Matrix:	SOIL
CTLab #:	874146	Analysis Time:	20:06	Prep Date/Time:	11/22/2010 10:00	Method:	SW8270
Parent Sample #:	870201	Analyst:	RPN	Prep Analyst:	BEL		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Benzyl alcohol	631	ug/kg	0		2070	30	20 --- 125		
Bis(2-chloroethoxy)methane	1690	ug/kg	0		2070	82	45 --- 110		
Bis(2-chloroethyl)ether	1660	ug/kg	0		2070	80	40 --- 105		
Bis(2-chloroisopropyl)ether	1650	ug/kg	0		2070	80	20 --- 115		
Bis(2-ethylhexyl)phthalate	2790	ug/kg	900		2070	91	45 --- 125		
Butylbenzylphthalate	1870	ug/kg	10		2070	90	50 --- 125		
Carbazole	1840	ug/kg	32		2070	87	45 --- 115		
Chrysene	1960	ug/kg	210		2070	85	55 --- 110		
Di-n-butylphthalate	2000	ug/kg	120		2070	91	55 --- 110		
Di-n-octylphthalate	1890	ug/kg	0		2070	91	40 --- 130		
Dibenzo(a,h)anthracene	1650	ug/kg	35		2070	78	40 --- 125		
Dibenzofuran	1830	ug/kg	20		2070	87	50 --- 105		
Diethylphthalate	1860	ug/kg	54		2070	87	50 --- 115		
Dimethylphthalate	1790	ug/kg	0		2070	86	50 --- 110		
Fluoranthene	2290	ug/kg	480		2070	87	55 --- 115		
Fluorene	1810	ug/kg	20		2070	86	50 --- 110		
Hexachlorobenzene	1750	ug/kg	0		2070	85	45 --- 120		
Hexachlorobutadiene	1640	ug/kg	0		2070	79	40 --- 115		
Hexachlorocyclopentadiene	810	ug/kg	0		2070	39	30 --- 137		
Hexachloroethane	1560	ug/kg	0		2070	75	35 --- 110		
Indeno(1,2,3-cd)pyrene	1770	ug/kg	120		2070	80	40 --- 120		
Isophorone	1630	ug/kg	0		2070	79	45 --- 110		
N-Nitroso-di-n-propylamine	1700	ug/kg	0		2070	82	40 --- 115		
N-Nitrosodimethylamine	1440	ug/kg	0		2070	70	20 --- 115		
N-Nitrosodiphenylamine & Diphn	3490	ug/kg	0		4140	84	50 --- 115		
N-Nitrosopyrrolidine	1650	ug/kg	0		2070	80	59 --- 110		
Naphthalene	1730	ug/kg	30		2070	82	40 --- 105		
Nitrobenzene	1740	ug/kg	0		2070	84	40 --- 115		
Pentachlorophenol	1520	ug/kg	0		2070	73	25 --- 120		
Phenanthrene	2050	ug/kg	250		2070	87	50 --- 110		
Phenol	1840	ug/kg	27		2070	88	40 --- 100		
Pyrene	2180	ug/kg	370		2070	87	45 --- 125		
Pyridine	40.3	ug/kg	0	U	2070	0	16 --- 121		
Surr: 2,4,6-Tribromophenol	99.5	% Recovery			100	99.5	35 --- 125		
Surr: 2-Fluorobiphenyl	87.1	% Recovery			100	87.1	45 --- 105		
Surr: 2-Fluorophenol	84.0	% Recovery			100	84.0	35 --- 105		
Surr: Nitrobenzene-d5	86.2	% Recovery			100	86.2	35 --- 100		
Surr: Phenol-d5	87.5	% Recovery			100	87.5	40 --- 100		
Surr: Terphenyl-d14	90.1	% Recovery			100	90.1	30 --- 125		

Lab Control Spike Soil

Analytical Run #:	72286	Analysis Date:	12/8/2010	Prep Batch #:	35630	Matrix:	SOLID
CTLab #:	877487	Analysis Time:	15:15	Prep Date/Time:	12/03/2010 15:00	Method:	SW8082
Parent Sample #:		Analyst:	JJY	Prep Analyst:	HHK		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aroclor-1016	495	ug/kg			500	99	40 --- 140		30
Aroclor-1260	483	ug/kg			500	97	60 --- 130		30
Surr: DCBP	97.2	% Recovery			100	97.2	60 --- 125		30

Method Blank Soil

Analytical Run #:	72286	Analysis Date:	12/8/2010	Prep Batch #:	35630	Matrix:	SOLID
CTLab #:	877486	Analysis Time:	15:00	Prep Date/Time:	12/03/2010 15:00	Method:	SW8082
Parent Sample #:		Analyst:	JJY	Prep Analyst:	HHK		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aroclor-1016	25	ug/kg		U	0		25		
Aroclor-1221	25	ug/kg		U	0		25		
Aroclor-1232	25	ug/kg		U	0		25		
Aroclor-1242	25	ug/kg		U	0		25		
Aroclor-1248	25	ug/kg		U	0		25		
Aroclor-1254	25	ug/kg		U	0		25		
Aroclor-1260	25	ug/kg		U	0		25		
Aroclor-1262	25	ug/kg		U	0		25		
Aroclor-1268	25	ug/kg		U	0		25		
Surr: DCBP	83.1	% Recovery			100	83.1	60 --- 125		

Matrix Spike Duplicate Soil

Analytical Run #:	72286	Analysis Date:	12/8/2010	Prep Batch #:	35630	Matrix:	SOIL
CTLab #:	877485	Analysis Time:	17:14	Prep Date/Time:	12/03/2010 15:00	Method:	SW8082
Parent Sample #:	877484	Analyst:	JJY	Prep Analyst:	HHK		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aroclor-1016	528	ug/kg	0		511	103	40 --- 140	18	30
Aroclor-1260	518	ug/kg	0		511	101	60 --- 130	18	30
Surr: DCBP	95.1	% Recovery			100	95.1	60 --- 125		

Matrix Spike Soil

Analytical Run #:	72286	Analysis Date:	12/8/2010	Prep Batch #:	35630	Matrix:	SOIL
CTLab #:	877484	Analysis Time:	16:58	Prep Date/Time:	12/03/2010 15:00	Method:	SW8082
Parent Sample #:	870189	Analyst:	JJY	Prep Analyst:	HHK		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aroclor-1016	440	ug/kg	0		511	86	40 --- 140		
Aroclor-1260	432	ug/kg	0		511	85	60 --- 130		
Surr: DCBP	82.9	% Recovery			100	82.9	60 --- 125		

Lab Control Spike Soil

Analytical Run #:	72359	Analysis Date:	12/8/2010	Prep Batch #:	35631	Matrix:	SOLID
CTLab #:	877492	Analysis Time:	20:38	Prep Date/Time:	12/03/2010 15:00	Method:	SW8270
Parent Sample #:		Analyst:	RPN	Prep Analyst:	HHK		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	1230	ug/kg			2000	62	45 --- 110		30
1,2-Dichlorobenzene	1190	ug/kg			2000	60	45 --- 95		30
1,3-Dichlorobenzene	1150	ug/kg			2000	58	40 --- 100		30
1,4-Dichlorobenzene	1160	ug/kg			2000	58	35 --- 105		30
1-Methylnaphthalene	1290	ug/kg			2000	64	50 --- 150		30
2,4,5-Trichlorophenol	1360	ug/kg			2000	68	50 --- 110		30
2,4,6-Trichlorophenol	1330	ug/kg			2000	66	45 --- 110		30
2,4-Dichlorophenol	1340	ug/kg			2000	67	45 --- 110		30
2,4-Dimethylphenol	1190	ug/kg			2000	60	30 --- 105		30
2,4-Dinitrophenol	467	ug/kg			2000	23	15 --- 130		30
2,4-Dinitrotoluene	1480	ug/kg			2000	74	50 --- 115		30
2,6-Dichlorophenol	1330	ug/kg			2000	66	48 --- 126		30
2,6-Dinitrotoluene	1410	ug/kg			2000	70	50 --- 110		30
2-Chloronaphthalene	1360	ug/kg			2000	68	45 --- 105		30
2-Chlorophenol	1300	ug/kg			2000	65	45 --- 105		30
2-Methylnaphthalene	1280	ug/kg			2000	64	45 --- 105		30
2-Methylphenol	1340	ug/kg			2000	67	40 --- 105		30
2-Nitroaniline	1480	ug/kg			2000	74	45 --- 120		30
2-Nitrophenol	1260	ug/kg			2000	63	40 --- 110		30
3 & 4-Methylphenol	1400	ug/kg			2000	70	40 --- 105		30
3,3'-Dichlorobenzidine	1380	ug/kg			2000	69	10 --- 130		30
3-Nitroaniline	995	ug/kg			2000	50	25 --- 110		30
4,6-Dinitro-2-methylphenol	974	ug/kg			2000	49	30 --- 135		30
4-Bromophenyl-phenyl ether	1440	ug/kg			2000	72	45 --- 115		30
4-Chloro-3-methylphenol	1350	ug/kg			2000	68	45 --- 115		30
4-Chloroaniline	630	ug/kg			2000	32	10 --- 95		30
4-Chlorophenyl-phenyl ether	1350	ug/kg			2000	68	45 --- 110		30
4-Nitroaniline	1510	ug/kg			2000	76	35 --- 115		30
4-Nitrophenol	1300	ug/kg			2000	65	15 --- 140		30
Acenaphthene	1360	ug/kg			2000	68	45 --- 110		30
Acenaphthylene	1370	ug/kg			2000	68	45 --- 105		30
Acetophenone	1320	ug/kg			2000	66	48 --- 126		30
Aniline	745	ug/kg			2000	37	14 --- 110		30
Anthracene	1420	ug/kg			2000	71	55 --- 105		30
Azobenzene & 1,2-Diphenylhydra	2810	ug/kg			4000	70	55 --- 115		30
Benzidine	294	ug/kg			2000	15	1 --- 161		30
Benzo(a)anthracene	1420	ug/kg			2000	71	50 --- 110		30
Benzo(a)pyrene	1370	ug/kg			2000	68	50 --- 110		30
Benzo(b)fluoranthene	1310	ug/kg			2000	66	45 --- 115		30
Benzo(g,h,i)perylene	1360	ug/kg			2000	68	40 --- 125		30
Benzo(k)fluoranthene	1470	ug/kg			2000	74	45 --- 125		30
Benzoic acid	348	ug/kg			2000	17	0 --- 110		30

Lab Control Spike Soil

Analytical Run #:	72359	Analysis Date:	12/8/2010	Prep Batch #:	35631	Matrix:	SOLID
CTLab #:	877492	Analysis Time:	20:38	Prep Date/Time:	12/03/2010 15:00	Method:	SW8270
Parent Sample #:		Analyst:	RPN	Prep Analyst:	HHK		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Benzyl alcohol	1250	ug/kg			2000	62	20 --- 125		30
Bis(2-chloroethoxy)methane	1350	ug/kg			2000	68	45 --- 110		30
Bis(2-chloroethyl)ether	1290	ug/kg			2000	64	40 --- 105		30
Bis(2-chloroisopropyl)ether	1260	ug/kg			2000	63	20 --- 115		30
Bis(2-ethylhexyl)phthalate	1490	ug/kg			2000	74	45 --- 125		30
Butylbenzylphthalate	1490	ug/kg			2000	74	50 --- 125		30
Carbazole	1500	ug/kg			2000	75	45 --- 115		30
Chrysene	1410	ug/kg			2000	70	55 --- 110		30
Di-n-butylphthalate	1530	ug/kg			2000	76	55 --- 110		30
Di-n-octylphthalate	1450	ug/kg			2000	72	40 --- 130		30
Dibenzo(a,h)anthracene	1380	ug/kg			2000	69	40 --- 125		30
Dibenzofuran	1360	ug/kg			2000	68	50 --- 105		30
Diethylphthalate	1410	ug/kg			2000	70	50 --- 115		30
Dimethylphthalate	1350	ug/kg			2000	68	50 --- 110		30
Fluoranthene	1420	ug/kg			2000	71	55 --- 115		30
Fluorene	1360	ug/kg			2000	68	50 --- 110		30
Hexachlorobenzene	1340	ug/kg			2000	67	45 --- 120		30
Hexachlorobutadiene	1140	ug/kg			2000	57	40 --- 115		30
Hexachlorocyclopentadiene	1090	ug/kg			2000	54	30 --- 137		30
Hexachloroethane	1160	ug/kg			2000	58	35 --- 110		30
Indeno(1,2,3-cd)pyrene	1390	ug/kg			2000	70	40 --- 120		30
Isophorone	1270	ug/kg			2000	64	45 --- 110		30
N-Nitroso-di-n-propylamine	1320	ug/kg			2000	66	40 --- 115		30
N-Nitrosodimethylamine	1110	ug/kg			2000	56	20 --- 115		30
N-Nitrosodiphenylamine & Diphn	2880	ug/kg			4000	72	50 --- 115		30
N-Nitrosopyrrolidine	1360	ug/kg			2000	68	59 --- 110		30
Naphthalene	1300	ug/kg			2000	65	40 --- 105		30
Nitrobenzene	1300	ug/kg			2000	65	40 --- 115		30
Pentachlorophenol	949	ug/kg			2000	47	25 --- 120		30
Phenanthrene	1400	ug/kg			2000	70	50 --- 110		30
Phenol	1360	ug/kg			2000	68	40 --- 100		30
Pyrene	1490	ug/kg			2000	74	45 --- 125		30
Pyridine	34.8	ug/kg			2000	2	16 --- 121		30
Surr: 2,4,6-Tribromophenol	72.0	% Recovery			100	72.0	35 --- 125		
Surr: 2-Fluorobiphenyl	71.0	% Recovery			100	71.0	45 --- 105		
Surr: 2-Fluorophenol	66.6	% Recovery			100	66.6	35 --- 105		
Surr: Nitrobenzene-d5	71.1	% Recovery			100	71.1	35 --- 100		
Surr: Phenol-d5	73.0	% Recovery			100	73.0	40 --- 100		
Surr: Terphenyl-d14	76.2	% Recovery			100	76.2	30 --- 125		

Method Blank Soil

Analytical Run #:	72359	Analysis Date:	12/8/2010	Prep Batch #:	35631	Matrix:	SOLID
CTLab #:	877491	Analysis Time:	20:18	Prep Date/Time:	12/03/2010 15:00	Method:	SW8270
Parent Sample #:		Analyst:	RPN	Prep Analyst:	HHK		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	200	ug/kg		U	0		200		
1,2-Dichlorobenzene	200	ug/kg		U	0		200		
1,3-Dichlorobenzene	200	ug/kg		U	0		200		
1,4-Dichlorobenzene	200	ug/kg		U	0		200		
1-Methylnaphthalene	200	ug/kg		U	0		200		
2,4,5-Trichlorophenol	250	ug/kg		U	0		250		
2,4,6-Trichlorophenol	250	ug/kg		U	0		250		
2,4-Dichlorophenol	250	ug/kg		U	0		250		
2,4-Dimethylphenol	200	ug/kg		U	0		200		
2,4-Dinitrophenol	1000	ug/kg		U	0		1000		
2,4-Dinitrotoluene	200	ug/kg		U	0		200		
2,6-Dichlorophenol	250	ug/kg		U	0		250		
2,6-Dinitrotoluene	200	ug/kg		U	0		200		
2-Chloronaphthalene	200	ug/kg		U	0		200		
2-Chlorophenol	250	ug/kg		U	0		250		
2-Methylnaphthalene	200	ug/kg		U	0		200		
2-Methylphenol	500	ug/kg		U	0		500		
2-Nitroaniline	200	ug/kg		U	0		200		
2-Nitrophenol	250	ug/kg		U	0		250		
3 & 4-Methylphenol	1000	ug/kg		U	0		1000		
3,3'-Dichlorobenzidine	250	ug/kg		U	0		250		
3-Nitroaniline	500	ug/kg		U	0		500		
4,6-Dinitro-2-methylphenol	500	ug/kg		U	0		500		
4-Bromophenyl-phenyl ether	200	ug/kg		U	0		200		
4-Chloro-3-methylphenol	250	ug/kg		U	0		250		
4-Chloroaniline	200	ug/kg		U	0		200		
4-Chlorophenyl-phenyl ether	200	ug/kg		U	0		200		
4-Nitroaniline	200	ug/kg		U	0		200		
4-Nitrophenol	500	ug/kg		U	0		500		
Acenaphthene	200	ug/kg		U	0		200		
Acenaphthylene	200	ug/kg		U	0		200		
Acetophenone	200	ug/kg		U	0		200		
Aniline	200	ug/kg		U	0		200		
Anthracene	200	ug/kg		U	0		200		
Azobenzene & 1,2-Diphenylhydra	400	ug/kg		U	0		400		
Benzidine	1000	ug/kg		U	0		1000		
Benzo(a)anthracene	200	ug/kg		U	0		200		
Benzo(a)pyrene	200	ug/kg		U	0		200		
Benzo(b)fluoranthene	200	ug/kg		U	0		200		
Benzo(g,h,i)perylene	200	ug/kg		U	0		200		
Benzo(k)fluoranthene	200	ug/kg		U	0		200		
Benzoic acid	291	ug/kg		U	0		291		

Method Blank Soil

Analytical Run #:	72359	Analysis Date:	12/8/2010	Prep Batch #:	35631	Matrix:	SOLID
CTLab #:	877491	Analysis Time:	20:18	Prep Date/Time:	12/03/2010 15:00	Method:	SW8270
Parent Sample #:		Analyst:	RPN	Prep Analyst:	HHK		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Benzyl alcohol	500	ug/kg		U	0		500		
Bis(2-chloroethoxy)methane	200	ug/kg		U	0		200		
Bis(2-chloroethyl)ether	200	ug/kg		U	0		200		
Bis(2-chloroisopropyl)ether	200	ug/kg		U	0		200		
Bis(2-ethylhexyl)phthalate	500	ug/kg		U	0		500		
Butylbenzylphthalate	200	ug/kg		U	0		200		
Carbazole	200	ug/kg		U	0		200		
Chrysene	200	ug/kg		U	0		200		
Di-n-butylphthalate	200	ug/kg		U	0		200		
Di-n-octylphthalate	200	ug/kg		U	0		200		
Dibenzo(a,h)anthracene	200	ug/kg		U	0		200		
Dibenzofuran	200	ug/kg		U	0		200		
Diethylphthalate	200	ug/kg		U	0		200		
Dimethylphthalate	200	ug/kg		U	0		200		
Fluoranthene	200	ug/kg		U	0		200		
Fluorene	200	ug/kg		U	0		200		
Hexachlorobenzene	200	ug/kg		U	0		200		
Hexachlorobutadiene	200	ug/kg		U	0		200		
Hexachlorocyclopentadiene	200	ug/kg		U	0		200		
Hexachloroethane	200	ug/kg		U	0		200		
Indeno(1,2,3-cd)pyrene	200	ug/kg		U	0		200		
Isophorone	200	ug/kg		U	0		200		
N-Nitroso-di-n-propylamine	200	ug/kg		U	0		200		
N-Nitrosodimethylamine	200	ug/kg		U	0		200		
N-Nitrosodiphenylamine & Diphn	400	ug/kg		U	0		400		
N-Nitrosopyrrolidine	200	ug/kg		U	0		200		
Naphthalene	200	ug/kg		U	0		200		
Nitrobenzene	200	ug/kg		U	0		200		
Pentachlorophenol	500	ug/kg		U	0		500		
Phenanthrene	200	ug/kg		U	0		200		
Phenol	250	ug/kg		U	0		250		
Pyrene	200	ug/kg		U	0		200		
Pyridine	200	ug/kg		U	0		200		
Surr: 2,4,6-Tribromophenol	69.9	% Recovery			100	69.9	35 --- 125		
Surr: 2-Fluorobiphenyl	72.4	% Recovery			100	72.4	45 --- 105		
Surr: 2-Fluorophenol	59.3	% Recovery			100	59.3	35 --- 105		
Surr: Nitrobenzene-d5	62.9	% Recovery			100	62.9	35 --- 100		
Surr: Phenol-d5	70.4	% Recovery			100	70.4	40 --- 100		
Surr: Terphenyl-d14	80.6	% Recovery			100	80.6	30 --- 125		

Matrix Spike Duplicate Soil

Analytical Run #:	72359	Analysis Date:	12/9/2010	Prep Batch #:	35631	Matrix:	SOIL
CTLab #:	877490	Analysis Time:	00:00	Prep Date/Time:	12/03/2010 15:00	Method:	SW8270
Parent Sample #:	877489	Analyst:	RPN	Prep Analyst:	HHK		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	1580	ug/kg	0		2030	78	45 --- 110	14	30
1,2-Dichlorobenzene	1550	ug/kg	0		2030	76	45 --- 95	17	30
1,3-Dichlorobenzene	1530	ug/kg	0		2030	75	40 --- 100	16	30
1,4-Dichlorobenzene	1520	ug/kg	0		2030	75	35 --- 105	16	30
1-Methylnaphthalene	1750	ug/kg	25		2030	85	50 --- 150	16	30
2,4,5-Trichlorophenol	1640	ug/kg	0		2030	81	50 --- 110	13	30
2,4,6-Trichlorophenol	1640	ug/kg	0		2030	81	45 --- 110	14	30
2,4-Dichlorophenol	1770	ug/kg	0		2030	87	45 --- 110	16	30
2,4-Dimethylphenol	514	ug/kg	0		2030	25	30 --- 105	23	30
2,4-Dinitrophenol	701	ug/kg	0	U	2030	12	15 --- 130	9	30
2,4-Dinitrotoluene	1700	ug/kg	0		2030	84	50 --- 115	9	30
2,6-Dichlorophenol	1650	ug/kg	0		2030	81	48 --- 126	16	30
2,6-Dinitrotoluene	1680	ug/kg	0		2030	83	50 --- 110	12	30
2-Chloronaphthalene	1630	ug/kg	0		2030	80	45 --- 105	13	30
2-Chlorophenol	1500	ug/kg	0		2030	74	45 --- 105	10	30
2-Methylnaphthalene	1730	ug/kg	36		2030	83	45 --- 105	17	30
2-Methylphenol	1430	ug/kg	0		2030	70	40 --- 105	14	30
2-Nitroaniline	1710	ug/kg	0		2030	84	45 --- 120	11	30
2-Nitrophenol	1480	ug/kg	0		2030	73	40 --- 110	16	30
3 & 4-Methylphenol	1560	ug/kg	0		2030	77	40 --- 105	12	30
3,3'-Dichlorobenzidine	39.6	ug/kg	0	U	2030	0	10 --- 130	0	30
3-Nitroaniline	430	ug/kg	0		2030	21	25 --- 110	2	30
4,6-Dinitro-2-methylphenol	274	ug/kg	0	U	2030	3	30 --- 135	55	30
4-Bromophenyl-phenyl ether	1740	ug/kg	0		2030	86	45 --- 115	13	30
4-Chloro-3-methylphenol	1770	ug/kg	0		2030	87	45 --- 115	15	30
4-Chloroaniline	62.8	ug/kg	0		2030	3	10 --- 95	19	30
4-Chlorophenyl-phenyl ether	1640	ug/kg	0		2030	81	45 --- 110	12	30
4-Nitroaniline	896	ug/kg	0		2030	44	35 --- 115	19	30
4-Nitrophenol	1480	ug/kg	0		2030	73	15 --- 140	11	30
Acenaphthene	1670	ug/kg	9.9		2030	82	45 --- 110	12	30
Acenaphthylene	1670	ug/kg	33		2030	81	45 --- 105	11	30
Acetophenone	1470	ug/kg	0		2030	72	25 --- 96	11	30
Aniline	39.6	ug/kg	0	U	2030	0	14 --- 110	0	30
Anthracene	1740	ug/kg	97		2030	81	55 --- 105	11	30
Azobenzene & 1,2-Diphenylhydra	3410	ug/kg	0		4060	84	55 --- 115	13	30
Benzidine	39.6	ug/kg	0	U	2030	0	1 --- 161	0	30
Benzo(a)anthracene	2090	ug/kg	370		2030	85	50 --- 110	9	30
Benzo(a)pyrene	1890	ug/kg	280		2030	79	50 --- 110	9	30
Benzo(b)fluoranthene	2310	ug/kg	440		2030	92	45 --- 115	16	30
Benzo(g,h,i)perylene	1270	ug/kg	150		2030	55	40 --- 125	2	30
Benzo(k)fluoranthene	1900	ug/kg	170		2030	85	45 --- 125	4	30
Benzoic acid	375	ug/kg	350		2030	1	0 --- 110	10	30

Matrix Spike Duplicate Soil

Analytical Run #:	72359	Analysis Date:	12/9/2010	Prep Batch #:	35631	Matrix:	SOIL
CTLab #:	877490	Analysis Time:	00:00	Prep Date/Time:	12/03/2010 15:00	Method:	SW8270
Parent Sample #:	877489	Analyst:	RPN	Prep Analyst:	HHK		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Benzyl alcohol	1430	ug/kg	0		2030	70	20 --- 125	19	30
Bis(2-chloroethoxy)methane	1700	ug/kg	0		2030	84	45 --- 110	16	30
Bis(2-chloroethyl)ether	1500	ug/kg	0		2030	74	40 --- 105	12	30
Bis(2-chloroisopropyl)ether	1430	ug/kg	0		2030	70	20 --- 115	11	30
Bis(2-ethylhexyl)phthalate	2010	ug/kg	220		2030	88	45 --- 125	13	30
Butylbenzylphthalate	1800	ug/kg	0		2030	89	50 --- 125	12	30
Carbazole	1770	ug/kg	27		2030	86	45 --- 115	10	30
Chrysene	2050	ug/kg	360		2030	83	55 --- 110	10	30
Di-n-butylphthalate	1840	ug/kg	90		2030	86	55 --- 110	12	30
Di-n-octylphthalate	1690	ug/kg	0		2030	83	40 --- 130	11	30
Dibenzo(a,h)anthracene	1350	ug/kg	50		2030	64	40 --- 125	8	30
Dibenzofuran	1670	ug/kg	15		2030	82	50 --- 105	10	30
Diethylphthalate	1660	ug/kg	24		2030	81	50 --- 115	10	30
Dimethylphthalate	1650	ug/kg	0		2030	81	50 --- 110	13	30
Fluoranthene	2430	ug/kg	720		2030	84	55 --- 115	8	30
Fluorene	1670	ug/kg	24		2030	81	50 --- 110	11	30
Hexachlorobenzene	1680	ug/kg	0		2030	83	45 --- 120	13	30
Hexachlorobutadiene	1530	ug/kg	0		2030	75	40 --- 115	14	30
Hexachlorocyclopentadiene	286	ug/kg	0		2030	14	30 --- 137	34	30
Hexachloroethane	1390	ug/kg	0		2030	68	35 --- 110	16	30
Indeno(1,2,3-cd)pyrene	1410	ug/kg	150		2030	62	40 --- 120	5	30
Isophorone	1640	ug/kg	0		2030	81	45 --- 110	18	30
N-Nitroso-di-n-propylamine	1510	ug/kg	0		2030	74	40 --- 115	16	30
N-Nitrosodimethylamine	1540	ug/kg	0		2030	76	20 --- 115	21	30
N-Nitrosodiphenylamine & Diphn	3110	ug/kg	0		4060	77	50 --- 115	9	30
N-Nitrosopyrrolidine	1580	ug/kg	0		2030	78	59 --- 110	15	30
Naphthalene	1630	ug/kg	27		2030	79	40 --- 105	13	30
Nitrobenzene	1560	ug/kg	0		2030	77	40 --- 115	10	30
Pentachlorophenol	521	ug/kg	0		2030	26	25 --- 120	1	30
Phenanthrene	1990	ug/kg	320		2030	82	50 --- 110	10	30
Phenol	1660	ug/kg	0		2030	82	40 --- 100	15	30
Pyrene	2420	ug/kg	570		2030	91	45 --- 125	10	30
Pyridine	39.6	ug/kg	0	U	2030	0	16 --- 121	0	30
Surr: 2,4,6-Tribromophenol	79.0	% Recovery			100	79.0	35 --- 125		
Surr: 2-Fluorobiphenyl	78.9	% Recovery			100	78.9	45 --- 105		
Surr: 2-Fluorophenol	67.3	% Recovery			100	67.3	35 --- 105		
Surr: Nitrobenzene-d5	75.2	% Recovery			100	75.2	35 --- 100		
Surr: Phenol-d5	76.7	% Recovery			100	76.7	40 --- 100		
Surr: Terphenyl-d14	86.2	% Recovery			100	86.2	30 --- 125		

Matrix Spike Soil

Analytical Run #:	72359	Analysis Date:	12/8/2010	Prep Batch #:	35631	Matrix:	SOIL
CTLab #:	877489	Analysis Time:	23:40	Prep Date/Time:	12/03/2010 15:00	Method:	SW8270
Parent Sample #:	870189	Analyst:	RPN	Prep Analyst:	HHK		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	1370	ug/kg	0		2030	67	45 --- 110		
1,2-Dichlorobenzene	1300	ug/kg	0		2030	64	45 --- 95		
1,3-Dichlorobenzene	1300	ug/kg	0		2030	64	40 --- 100		
1,4-Dichlorobenzene	1300	ug/kg	0		2030	64	35 --- 105		
1-Methylnaphthalene	1480	ug/kg	25		2030	72	50 --- 150		
2,4,5-Trichlorophenol	1440	ug/kg	0		2030	71	50 --- 110		
2,4,6-Trichlorophenol	1420	ug/kg	0		2030	70	45 --- 110		
2,4-Dichlorophenol	1510	ug/kg	0		2030	74	45 --- 110		
2,4-Dimethylphenol	650	ug/kg	0		2030	32	30 --- 105		
2,4-Dinitrophenol	700	ug/kg	0	U	2030	14	15 --- 130		
2,4-Dinitrotoluene	1550	ug/kg	0		2030	76	50 --- 115		
2,6-Dichlorophenol	1400	ug/kg	0		2030	69	48 --- 126		
2,6-Dinitrotoluene	1490	ug/kg	0		2030	73	50 --- 110		
2-Chloronaphthalene	1430	ug/kg	0		2030	70	45 --- 105		
2-Chlorophenol	1370	ug/kg	0		2030	67	45 --- 105		
2-Methylnaphthalene	1460	ug/kg	36		2030	70	45 --- 105		
2-Methylphenol	1250	ug/kg	0		2030	62	40 --- 105		
2-Nitroaniline	1530	ug/kg	0		2030	75	45 --- 120		
2-Nitrophenol	1260	ug/kg	0		2030	62	40 --- 110		
3 & 4-Methylphenol	1380	ug/kg	0		2030	68	40 --- 105		
3,3'-Dichlorobenzidine	101	ug/kg	0	U	2030	0	10 --- 130		
3-Nitroaniline	419	ug/kg	0		2030	21	25 --- 110		
4,6-Dinitro-2-methylphenol	274	ug/kg	0	U	2030	5	30 --- 135		
4-Bromophenyl-phenyl ether	1530	ug/kg	0		2030	75	45 --- 115		
4-Chloro-3-methylphenol	1520	ug/kg	0		2030	75	45 --- 115		
4-Chloroaniline	75.8	ug/kg	0		2030	4	10 --- 95		
4-Chlorophenyl-phenyl ether	1460	ug/kg	0		2030	72	45 --- 110		
4-Nitroaniline	736	ug/kg	0		2030	36	35 --- 115		
4-Nitrophenol	1320	ug/kg	0		2030	65	15 --- 140		
Acenaphthene	1480	ug/kg	9.9		2030	72	45 --- 110		
Acenaphthylene	1490	ug/kg	33		2030	72	45 --- 105		
Acetophenone	1320	ug/kg	0		2030	65	25 --- 96		
Aniline	101	ug/kg	0	U	2030	0	14 --- 110		
Anthracene	1560	ug/kg	97		2030	72	55 --- 105		
Azobenzene & 1,2-Diphenylhydra	2980	ug/kg	0		4060	73	55 --- 115		
Benzidine	101	ug/kg	0	U	2030	0	1 --- 161		
Benzo(a)anthracene	1900	ug/kg	370		2030	75	50 --- 110		
Benzo(a)pyrene	1730	ug/kg	280		2030	71	50 --- 110		
Benzo(b)fluoranthene	1960	ug/kg	440		2030	75	45 --- 115		
Benzo(g,h,i)perylene	1240	ug/kg	150		2030	54	40 --- 125		
Benzo(k)fluoranthene	1820	ug/kg	170		2030	81	45 --- 125		
Benzoic acid	413	ug/kg	350		2030	3	0 --- 110		

Matrix Spike Soil

Analytical Run #:	72359	Analysis Date:	12/8/2010	Prep Batch #:	35631	Matrix:	SOIL
CTLab #:	877489	Analysis Time:	23:40	Prep Date/Time:	12/03/2010 15:00	Method:	SW8270
Parent Sample #:	870189	Analyst:	RPN	Prep Analyst:	HHK		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Benzyl alcohol	1170	ug/kg	0		2030	58	20 --- 125		
Bis(2-chloroethoxy)methane	1450	ug/kg	0		2030	71	45 --- 110		
Bis(2-chloroethyl)ether	1320	ug/kg	0		2030	65	40 --- 105		
Bis(2-chloroisopropyl)ether	1280	ug/kg	0		2030	63	20 --- 115		
Bis(2-ethylhexyl)phthalate	1770	ug/kg	220		2030	76	45 --- 125		
Butylbenzylphthalate	1590	ug/kg	0		2030	78	50 --- 125		
Carbazole	1590	ug/kg	27		2030	77	45 --- 115		
Chrysene	1850	ug/kg	360		2030	73	55 --- 110		
Di-n-butylphthalate	1630	ug/kg	90		2030	76	55 --- 110		
Di-n-octylphthalate	1520	ug/kg	0		2030	75	40 --- 130		
Dibenzo(a,h)anthracene	1250	ug/kg	50		2030	59	40 --- 125		
Dibenzofuran	1510	ug/kg	15		2030	74	50 --- 105		
Diethylphthalate	1510	ug/kg	24		2030	73	50 --- 115		
Dimethylphthalate	1450	ug/kg	0		2030	71	50 --- 110		
Fluoranthene	2230	ug/kg	720		2030	74	55 --- 115		
Fluorene	1500	ug/kg	24		2030	73	50 --- 110		
Hexachlorobenzene	1460	ug/kg	0		2030	72	45 --- 120		
Hexachlorobutadiene	1320	ug/kg	0		2030	65	40 --- 115		
Hexachlorocyclopentadiene	405	ug/kg	0		2030	20	30 --- 137		
Hexachloroethane	1190	ug/kg	0		2030	59	35 --- 110		
Indeno(1,2,3-cd)pyrene	1330	ug/kg	150		2030	58	40 --- 120		
Isophorone	1370	ug/kg	0		2030	67	45 --- 110		
N-Nitroso-di-n-propylamine	1280	ug/kg	0		2030	63	40 --- 115		
N-Nitrosodimethylamine	1240	ug/kg	0		2030	61	20 --- 115		
N-Nitrosodiphenylamine & Diphn	2840	ug/kg	0		4060	70	50 --- 115		
N-Nitrosopyrrolidine	1360	ug/kg	0		2030	67	59 --- 110		
Naphthalene	1430	ug/kg	27		2030	69	40 --- 105		
Nitrobenzene	1410	ug/kg	0		2030	69	40 --- 115		
Pentachlorophenol	514	ug/kg	0		2030	25	25 --- 120		
Phenanthrene	1800	ug/kg	320		2030	73	50 --- 110		
Phenol	1430	ug/kg	0		2030	70	40 --- 100		
Pyrene	2190	ug/kg	570		2030	80	45 --- 125		
Pyridine	101	ug/kg	0	U	2030	0	16 --- 121		
Surr: 2,4,6-Tribromophenol	72.8	% Recovery			100	72.8	35 --- 125		
Surr: 2-Fluorobiphenyl	70.3	% Recovery			100	70.3	45 --- 105		
Surr: 2-Fluorophenol	65.0	% Recovery			100	65.0	35 --- 105		
Surr: Nitrobenzene-d5	67.1	% Recovery			100	67.1	35 --- 100		
Surr: Phenol-d5	67.9	% Recovery			100	67.9	40 --- 100		
Surr: Terphenyl-d14	79.9	% Recovery			100	79.9	30 --- 125		

Lab Control Spike Soil

Analytical Run #:	72412	Analysis Date:	12/16/2010	Prep Batch #:	35573	Matrix:	SOLID
CTLab #:	875960	Analysis Time:	22:06	Prep Date/Time:	12/02/2010 12:00	Method:	SW8330B
Parent Sample #:		Analyst:	RED	Prep Analyst:	RED		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,2-Dinitrobenzene	90.4	% Recovery			100	90.4	50 --- 150		
Nitroguanidine	1.95	mg/kg			1.95	100	50 --- 150		30

Method Blank Soil

Analytical Run #:	72412	Analysis Date:	12/16/2010	Prep Batch #:	35573	Matrix:	SOLID
CTLab #:	875959	Analysis Time:	21:52	Prep Date/Time:	12/02/2010 12:00	Method:	SW8330B
Parent Sample #:		Analyst:	RED	Prep Analyst:	RED		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,2-Dinitrobenzene	98.3	% Recovery			100	98.3	50 --- 150		
Nitroguanidine	0.08	mg/kg		U	0		0.08		

Matrix Spike Duplicate Soil

Analytical Run #:	72412	Analysis Date:	12/16/2010	Prep Batch #:	35573	Matrix:	SOIL
CTLab #:	875963	Analysis Time:	22:49	Prep Date/Time:	12/02/2010 12:00	Method:	SW8330B
Parent Sample #:	875962	Analyst:	RED	Prep Analyst:	RED		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,2-Dinitrobenzene	92.2	% Recovery			100	92.2	50 --- 150		
Nitroguanidine	2.16	mg/kg	0.30		2.00	93	50 --- 150	2	30

Matrix Spike Soil

Analytical Run #:	72412	Analysis Date:	12/16/2010	Prep Batch #:	35573	Matrix:	SOIL
CTLab #:	875962	Analysis Time:	22:35	Prep Date/Time:	12/02/2010 12:00	Method:	SW8330B
Parent Sample #:	870201	Analyst:	RED	Prep Analyst:	RED		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,2-Dinitrobenzene	93.8	% Recovery			100	93.8	50 --- 150		
Nitroguanidine	2.13	mg/kg	0.30		1.93	95	50 --- 150		

Lab Control Spike Soil

Analytical Run #:	72413	Analysis Date:	12/14/2010	Prep Batch #:	35571	Matrix:	SOLID
CTLab #:	875952	Analysis Time:	10:21	Prep Date/Time:	12/02/2010 13:30	Method:	SW8330B
Parent Sample #:		Analyst:	RED	Prep Analyst:	RED		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,2-Dinitrobenzene	118	% Recovery			100	118	79 --- 120		
1,3,5-Trinitrobenzene	2.04	mg/kg			1.99	103	78 --- 121		
1,3-Dinitrobenzene	2.13	mg/kg			1.99	107	83 --- 115		
2,4,6-Trinitrotoluene	1.85	mg/kg			1.99	93	69 --- 129		
2,4-Dinitrotoluene	2.22	mg/kg			1.99	112	80 --- 118		
2,6-Dinitrotoluene	1.97	mg/kg			1.99	99	74 --- 122		
2-Amino-4,6-dinitrotoluene	2.05	mg/kg			1.99	103	75 --- 118		
2-Nitrotoluene	2.09	mg/kg			1.99	105	77 --- 118		
3,5-Dinitroaniline	2.26	mg/kg			1.99	114	10 --- 165		
3-Nitrotoluene	2.11	mg/kg			1.99	106	75 --- 118		
4-Amino-2,6-dinitrotoluene	2.13	mg/kg			1.99	107	75 --- 122		
4-Nitrotoluene	2.09	mg/kg			1.99	105	76 --- 118		
HMX	1.93	mg/kg			1.99	97	71 --- 120		
Nitrobenzene	2.15	mg/kg			1.99	108	82 --- 116		
Nitroglycerin	3.88	mg/kg			3.97	98	77 --- 123		
PETN	3.73	mg/kg			3.97	94	74 --- 123		
RDX	1.87	mg/kg			1.99	94	63 --- 125		
Tetryl	1.70	mg/kg			1.99	85	10 --- 165		

Method Blank Soil

Analytical Run #:	72413	Analysis Date:	12/14/2010	Prep Batch #:	35571	Matrix:	SOLID
CTLab #:	875951	Analysis Time:	09:58	Prep Date/Time:	12/02/2010 13:30	Method:	SW8330B
Parent Sample #:		Analyst:	RED	Prep Analyst:	RED		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,2-Dinitrobenzene	106	% Recovery			100	106	79 --- 120		
1,3,5-Trinitrobenzene	0.22	mg/kg		U	0		0.22		
1,3-Dinitrobenzene	0.22	mg/kg		U	0		0.22		
2,4,6-Trinitrotoluene	0.22	mg/kg		U	0		0.22		
2,4-Dinitrotoluene	0.22	mg/kg		U	0		0.22		
2,6-Dinitrotoluene	0.25	mg/kg		U	0		0.25		
2-Amino-4,6-dinitrotoluene	0.22	mg/kg		U	0		0.22		
2-Nitrotoluene	0.22	mg/kg		U	0		0.22		
3,5-Dinitroaniline	0.22	mg/kg		U	0		0.22		
3-Nitrotoluene	0.22	mg/kg		U	0		0.22		
4-Amino-2,6-dinitrotoluene	0.22	mg/kg		U	0		0.22		
4-Nitrotoluene	0.25	mg/kg		U	0		0.25		
HMX	0.22	mg/kg		U	0		0.22		
Nitrobenzene	0.22	mg/kg		U	0		0.22		
Nitroglycerin	0.75	mg/kg		U	0		0.75		
PETN	0.75	mg/kg		U	0		0.75		
RDX	0.22	mg/kg		U	0		0.22		
Tetryl	0.22	mg/kg		U	0		0.22		

Matrix Spike Duplicate Soil

Analytical Run #:	72413	Analysis Date:	12/14/2010	Prep Batch #:	35571	Matrix:	SOIL
CTLab #:	875954	Analysis Time:	11:30	Prep Date/Time:	12/02/2010 13:30	Method:	SW8330B
Parent Sample #:	875953	Analyst:	RED	Prep Analyst:	RED		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,2-Dinitrobenzene	112	% Recovery			100	112	75 --- 127		
1,3,5-Trinitrobenzene	2.05	mg/kg	0		1.98	104	72 --- 121	4	15
1,3-Dinitrobenzene	2.11	mg/kg	0		1.98	107	74 --- 120	3	20
2,4,6-Trinitrotoluene	2.32	mg/kg	0		1.98	117	56 --- 135	9	28
2,4-Dinitrotoluene	2.22	mg/kg	0		1.98	112	64 --- 131	4	51
2,6-Dinitrotoluene	1.99	mg/kg	0		1.98	101	63 --- 131	7	18
2-Amino-4,6-dinitrotoluene	2.01	mg/kg	0		1.98	102	71 --- 118	3	18
2-Nitrotoluene	2.11	mg/kg	0		1.98	107	78 --- 113	6	13
3,5-Dinitroaniline	2.01		0		1.98	102	1 --- 153	3	30
3-Nitrotoluene	2.09	mg/kg	0		1.98	106	74 --- 115	4	15
4-Amino-2,6-dinitrotoluene	1.58	mg/kg	0		1.98	80	72 --- 123	9	20
4-Nitrotoluene	2.12	mg/kg	0		1.98	107	80 --- 110	6	15
HMX	1.87	mg/kg	0		1.98	94	59 --- 133	3	27
Nitrobenzene	2.05	mg/kg	0		1.98	104	73 --- 120	1	19
Nitroglycerin	8.32	mg/kg	0		7.93	105	76 --- 130	6	18
PETN	8.56	mg/kg	0		7.93	108	74 --- 123	4	16
RDX	1.85	mg/kg	0		1.98	93	55 --- 120	1	30
Tetryl	1.63	mg/kg	0		1.98	82	30 --- 155	2	38

Matrix Spike Soil

Analytical Run #:	72413	Analysis Date:	12/14/2010	Prep Batch #:	35571	Matrix:	SOIL
CTLab #:	875953	Analysis Time:	11:07	Prep Date/Time:	12/02/2010 13:30	Method:	SW8330B
Parent Sample #:	870201	Analyst:	RED	Prep Analyst:	RED		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,2-Dinitrobenzene	109	% Recovery			100	109	75 --- 127		
1,3,5-Trinitrobenzene	1.99	mg/kg	0		2.01	99	72 --- 121		
1,3-Dinitrobenzene	2.07	mg/kg	0		2.01	103	74 --- 120		
2,4,6-Trinitrotoluene	2.15	mg/kg	0		2.01	107	56 --- 135		
2,4-Dinitrotoluene	2.15	mg/kg	0		2.01	107	64 --- 131		
2,6-Dinitrotoluene	2.15	mg/kg	0		2.01	107	63 --- 131		
2-Amino-4,6-dinitrotoluene	1.98	mg/kg	0		2.01	99	71 --- 118		
2-Nitrotoluene	2.01	mg/kg	0		2.01	100	78 --- 113		
3,5-Dinitroaniline	1.98		0		2.01	99	1 --- 153		
3-Nitrotoluene	2.03	mg/kg	0		2.01	101	74 --- 115		
4-Amino-2,6-dinitrotoluene	1.76	mg/kg	0		2.01	88	72 --- 123		
4-Nitrotoluene	2.02	mg/kg	0		2.01	100	80 --- 110		
HMX	1.84	mg/kg	0		2.01	92	59 --- 133		
Nitrobenzene	2.09	mg/kg	0		2.01	104	73 --- 120		
Nitroglycerin	7.96	mg/kg	0		8.04	99	76 --- 130		
PETN	9.07	mg/kg	0		8.04	113	74 --- 123		
RDX	1.85	mg/kg	0		2.01	92	55 --- 120		
Tetryl	1.62	mg/kg	0		2.01	81	30 --- 155		

Lab Control Spike Soil

Analytical Run #:	72414	Analysis Date:	12/17/2010	Prep Batch #:	35670	Matrix:	SOLID
CTLab #:	877979	Analysis Time:	01:12	Prep Date/Time:	12/06/2010 16:00	Method:	SW8330B
Parent Sample #:		Analyst:	RED	Prep Analyst:	RED		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,2-Dinitrobenzene	94.7	% Recovery			100	94.7	50 --- 150		
Nitroguanidine	2.05	mg/kg			2.02	101	50 --- 150		30

Method Blank Soil

Analytical Run #:	72414	Analysis Date:	12/17/2010	Prep Batch #:	35670	Matrix:	SOLID
CTLab #:	877978	Analysis Time:	00:58	Prep Date/Time:	12/06/2010 16:00	Method:	SW8330B
Parent Sample #:		Analyst:	RED	Prep Analyst:	RED		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,2-Dinitrobenzene	99.6	% Recovery			100	99.6	50 --- 150		
Nitroguanidine	0.08	mg/kg		U	0		0.08		

Matrix Spike Duplicate Soil

Analytical Run #:	72414	Analysis Date:	12/17/2010	Prep Batch #:	35670	Matrix:	SOIL
CTLab #:	877982	Analysis Time:	01:55	Prep Date/Time:	12/06/2010 16:00	Method:	SW8330B
Parent Sample #:	877981	Analyst:	RED	Prep Analyst:	RED		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,2-Dinitrobenzene	87.9	% Recovery			100	87.9	50 --- 150		
Nitroguanidine	2.09	mg/kg	0.11		2.03	98	50 --- 150	1	30

Matrix Spike Soil

Analytical Run #:	72414	Analysis Date:	12/17/2010	Prep Batch #:	35670	Matrix:	SOIL
CTLab #:	877981	Analysis Time:	01:41	Prep Date/Time:	12/06/2010 16:00	Method:	SW8330B
Parent Sample #:	870189	Analyst:	RED	Prep Analyst:	RED		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,2-Dinitrobenzene	88.9	% Recovery			100	88.9	50 --- 150		
Nitroguanidine	2.03	mg/kg	0.11		1.98	97	50 --- 150		

Lab Control Spike Soil

Analytical Run #:	72415	Analysis Date:	12/14/2010	Prep Batch #:	35669	Matrix:	SOLID
CTLab #:	877975	Analysis Time:	15:45	Prep Date/Time:	12/06/2010 17:15	Method:	SW8330B
Parent Sample #:		Analyst:	RED	Prep Analyst:	RED		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,2-Dinitrobenzene	117	% Recovery			100	117	79 --- 120		
1,3,5-Trinitrobenzene	2.10	mg/kg			2.01	104	78 --- 121		
1,3-Dinitrobenzene	2.26	mg/kg			2.01	112	83 --- 115		
2,4,6-Trinitrotoluene	2.25	mg/kg			2.01	112	69 --- 129		
2,4-Dinitrotoluene	1.97	mg/kg			2.01	98	80 --- 118		
2,6-Dinitrotoluene	2.35	mg/kg			2.01	117	74 --- 122		
2-Amino-4,6-dinitrotoluene	2.12	mg/kg			2.01	105	75 --- 118		
2-Nitrotoluene	2.03	mg/kg			2.01	101	77 --- 118		
3,5-Dinitroaniline	2.32	mg/kg			2.01	115	10 --- 165		
3-Nitrotoluene	2.27	mg/kg			2.01	113	75 --- 118		
4-Amino-2,6-dinitrotoluene	1.77	mg/kg			2.01	88	75 --- 122		
4-Nitrotoluene	2.04	mg/kg			2.01	101	76 --- 118		
HMX	2.08	mg/kg			2.01	103	71 --- 120		
Nitrobenzene	2.28	mg/kg			2.01	113	82 --- 116		
Nitroglycerin	4.27	mg/kg			4.02	106	77 --- 123		
PETN	4.48	mg/kg			4.02	111	74 --- 123		
RDX	1.93	mg/kg			2.01	96	63 --- 125		
Tetryl	1.91	mg/kg			2.01	95	10 --- 165		

Method Blank Soil

Analytical Run #:	72415	Analysis Date:	12/14/2010	Prep Batch #:	35669	Matrix:	SOLID
CTLab #:	877974	Analysis Time:	15:22	Prep Date/Time:	12/06/2010 17:15	Method:	SW8330B
Parent Sample #:		Analyst:	RED	Prep Analyst:	RED		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,2-Dinitrobenzene	102	% Recovery			100	102	79 --- 120		
1,3,5-Trinitrobenzene	0.22	mg/kg		U	0		0.22		
1,3-Dinitrobenzene	0.22	mg/kg		U	0		0.22		
2,4,6-Trinitrotoluene	0.22	mg/kg		U	0		0.22		
2,4-Dinitrotoluene	0.22	mg/kg		U	0		0.22		
2,6-Dinitrotoluene	0.25	mg/kg		U	0		0.25		
2-Amino-4,6-dinitrotoluene	0.22	mg/kg		U	0		0.22		
2-Nitrotoluene	0.22	mg/kg		U	0		0.22		
3,5-Dinitroaniline	0.22	mg/kg		U	0		0.22		
3-Nitrotoluene	0.22	mg/kg		U	0		0.22		
4-Amino-2,6-dinitrotoluene	0.22	mg/kg		U	0		0.22		
4-Nitrotoluene	0.25	mg/kg		U	0		0.25		
HMX	0.22	mg/kg		U	0		0.22		
Nitrobenzene	0.22	mg/kg		U	0		0.22		
Nitroglycerin	0.75	mg/kg		U	0		0.75		
PETN	0.75	mg/kg		U	0		0.75		
RDX	0.22	mg/kg		U	0		0.22		
Tetryl	0.22	mg/kg		U	0		0.22		

Matrix Spike Duplicate Soil

Analytical Run #:	72415	Analysis Date:	12/14/2010	Prep Batch #:	35669	Matrix:	SOIL
CTLab #:	877977	Analysis Time:	18:13	Prep Date/Time:	12/06/2010 17:15	Method:	SW8330B
Parent Sample #:	877976	Analyst:	RED	Prep Analyst:	RED		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,2-Dinitrobenzene	102	% Recovery			100	102	75 --- 127		
1,3,5-Trinitrobenzene	1.93	mg/kg	0		2.01	96	72 --- 121	3	15
1,3-Dinitrobenzene	2.10	mg/kg	0		2.01	104	74 --- 120	4	20
2,4,6-Trinitrotoluene	2.12	mg/kg	0		2.01	105	56 --- 135	5	28
2,4-Dinitrotoluene	2.27	mg/kg	0		2.01	113	64 --- 131	3	51
2,6-Dinitrotoluene	1.97	mg/kg	0		2.01	98	63 --- 131	0	18
2-Amino-4,6-dinitrotoluene	2.00	mg/kg	0		2.01	100	71 --- 118	6	18
2-Nitrotoluene	2.26	mg/kg	0		2.01	112	78 --- 113	3	13
3,5-Dinitroaniline	2.01		0		2.01	100	1 --- 153	5	30
3-Nitrotoluene	2.10	mg/kg	0		2.01	104	74 --- 115	8	15
4-Amino-2,6-dinitrotoluene	1.61	mg/kg	0		2.01	80	72 --- 123	4	20
4-Nitrotoluene	1.92	mg/kg	0		2.01	96	80 --- 110	7	15
HMX	1.89	mg/kg	0		2.01	94	59 --- 133	6	27
Nitrobenzene	2.04	mg/kg	0		2.01	101	73 --- 120	4	19
Nitroglycerin	8.46	mg/kg	0		8.05	105	76 --- 130	5	18
PETN	8.49	mg/kg	0		8.05	105	74 --- 123	0	16
RDX	1.83	mg/kg	0		2.01	91	55 --- 120	0	30
Tetryl	1.77	mg/kg	0		2.01	88	30 --- 155	1	38

Matrix Spike Soil

Analytical Run #:	72415	Analysis Date:	12/14/2010	Prep Batch #:	35669	Matrix:	SOIL
CTLab #:	877976	Analysis Time:	17:50	Prep Date/Time:	12/06/2010 17:15	Method:	SW8330B
Parent Sample #:	870189	Analyst:	RED	Prep Analyst:	RED		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,2-Dinitrobenzene	103	% Recovery			100	103	75 --- 127		
1,3,5-Trinitrobenzene	2.00	mg/kg	0		2.01	100	72 --- 121		
1,3-Dinitrobenzene	2.20	mg/kg	0		2.01	109	74 --- 120		
2,4,6-Trinitrotoluene	2.23	mg/kg	0		2.01	111	56 --- 135		
2,4-Dinitrotoluene	2.21	mg/kg	0		2.01	110	64 --- 131		
2,6-Dinitrotoluene	1.96	mg/kg	0		2.01	98	63 --- 131		
2-Amino-4,6-dinitrotoluene	2.13	mg/kg	0		2.01	106	71 --- 118		
2-Nitrotoluene	2.33	mg/kg	0		2.01	116	78 --- 113		
3,5-Dinitroaniline	2.12		0		2.01	105	1 --- 153		
3-Nitrotoluene	2.28	mg/kg	0		2.01	113	74 --- 115		
4-Amino-2,6-dinitrotoluene	1.67	mg/kg	0		2.01	83	72 --- 123		
4-Nitrotoluene	2.07	mg/kg	0		2.01	103	80 --- 110		
HMX	2.00	mg/kg	0		2.01	100	59 --- 133		
Nitrobenzene	2.13	mg/kg	0		2.01	106	73 --- 120		
Nitroglycerin	8.89	mg/kg	0		8.06	110	76 --- 130		
PETN	8.47	mg/kg	0		8.06	105	74 --- 123		
RDX	1.84	mg/kg	0		2.01	92	55 --- 120		
Tetryl	1.75	mg/kg	0		2.01	87	30 --- 155		

CT LABORATORIES
delivering more than data from your environmental analyses

Sample Condition Report

Folder #: 82424
Client: USACE - LOUISVILLE

Project Name: RAVENNA
Project #: W912QR-10-D-0024

Coolers: 3711,3813,3612,3376,
Custody Seals Present : **Y**

Seal Intact? **Y**
Ship Method: FEDEX EXPRESS
Adequate Packaging: **Y**

Print Date / Time: 11/11/2010 11:54
Received Date / Time / By: 11/11/2010 0950 JLS

Log-In Date / Time / By: 11/11/2010 1140 JLS
PM: PML

Temperature: <2.6 C On Ice: **Y**
COC Present:? **Y** Complete? **Y**

Numbers: DATED AND SIGNED
Tracking Number: 870084100817,814881380960,870084100
Temp Blank Enclosed? **Y**

Notes: ADDITIONAL TRACKING #'S OF 814881380959, 870084100791, 870084100806
2 ADDITIONAL COOLERS- 1 GPL AND 1 KEMRON
SAMPLES REC'D IN GOOD CONDITION ON ICE
CUSTODY SEALS INTACT, ALL DATED 11/10/10 AND SIGNED BY DEREK KINDER

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
870182 DLASS-023-0001-SO					
	SOLIDS	1		%SOL	
	Total # of Containers of Type (*SOLIDS*) = 1				
870182 DLASS-023-0001-SO					
	MEOH TARED	1		VOC	
	MEOH TARED	1		VOC	
	Total # of Containers of Type (*MEOH TARED*) = 2				
870183 DLASS-033-0001-SO					
	SOLIDS	1		%SOL	
	Total # of Containers of Type (*SOLIDS*) = 1				
870183 DLASS-033-0001-SO					
	MEOH TARED	1		VOC	
	MEOH TARED	1		VOC	
	Total # of Containers of Type (*MEOH TARED*) = 2				
870184 DLASS-003-0001-SO					
	SOLIDS	1		%SOL	
	Total # of Containers of Type (*SOLIDS*) = 1				
870184 DLASS-003-0001-SO					
	MEOH TARED	1		VOC	
	MEOH TARED	1		VOC	
	Total # of Containers of Type (*MEOH TARED*) = 2				

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
870185 DLASS-003-0002-SO					
	SOLIDS	1		%SOL	
	Total # of Containers of Type (*SOLIDS*) = 1				
870185 DLASS-003-0002-SO					
	MEOH TARED	1		VOC	
	MEOH TARED	1		VOC	
	Total # of Containers of Type (*MEOH TARED*) = 2				
870186 DLASS-043-0001-SO					
	SOLIDS	1		%SOL	
	Total # of Containers of Type (*SOLIDS*) = 1				
870186 DLASS-043-0001-SO					
	MEOH TARED	1		VOC	
	MEOH TARED	1		VOC	
	Total # of Containers of Type (*MEOH TARED*) = 2				
870187 DLASS-015-0001-SO					
	SOLIDS	1		%SOL	
	Total # of Containers of Type (*SOLIDS*) = 1				
870187 DLASS-015-0001-SO					
	MEOH TARED	1		VOC	
	MEOH TARED	1		VOC	
	Total # of Containers of Type (*MEOH TARED*) = 2				
870188 DLASS-027-0001-SO					
	SOLIDS	1		%SOL	
	Total # of Containers of Type (*SOLIDS*) = 1				
870188 DLASS-027-0001-SO					
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	Total # of Containers of Type (*FOR LABEL ONLY*) = 2				
870189 DLASS-002-0001-SO					
	SOLIDS	1		%SOL	
	Total # of Containers of Type (*SOLIDS*) = 1				
870189 DLASS-002-0001-SO					
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	Total # of Containers of Type (*FOR LABEL ONLY*) = 2				
870190 DLASS-018-0001-SO					
	SOLIDS	1		%SOL	
	Total # of Containers of Type (*SOLIDS*) = 1				
870190 DLASS-018-0001-SO					
	FOR LABEL ONLY	1		SOIL PREP/MIX	

	FOR LABEL ONLY	1		SOIL PREP/MIX	

Total # of Containers of Type (*FOR LABEL ONLY*) = 2

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
870191 DLASS-001-0001-SO					
	SOLIDS	1		%SOL	

Total # of Containers of Type (*SOLIDS*) = 1

870191 DLASS-001-0001-SO					
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	FOR LABEL ONLY	1		SOIL PREP/MIX	

Total # of Containers of Type (*FOR LABEL ONLY*) = 2

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
870192 DLASS-016-0001-SO					
	SOLIDS	1		%SOL	

Total # of Containers of Type (*SOLIDS*) = 1

870192 DLASS-016-0001-SO					
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	FOR LABEL ONLY	1		SOIL PREP/MIX	

Total # of Containers of Type (*FOR LABEL ONLY*) = 2

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
870193 DLASS-017-0001-SO					
	SOLIDS	1		%SOL	

Total # of Containers of Type (*SOLIDS*) = 1

870193 DLASS-017-0001-SO					
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	FOR LABEL ONLY	1		SOIL PREP/MIX	

Total # of Containers of Type (*FOR LABEL ONLY*) = 2

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
870194 DLASS-022-0001-SO					
	SOLIDS	1		%SOL	

Total # of Containers of Type (*SOLIDS*) = 1

870194 DLASS-022-0001-SO					
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	FOR LABEL ONLY	1		SOIL PREP/MIX	

Total # of Containers of Type (*FOR LABEL ONLY*) = 2

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
870195 DLASS-022-0003-SO					
	SOLIDS	1		%SOL	

Total # of Containers of Type (*SOLIDS*) = 1

870195 DLASS-022-0003-SO					
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	FOR LABEL ONLY	1		SOIL PREP/MIX	

Total # of Containers of Type (*FOR LABEL ONLY*) = 2

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?

870196 DLASS-008-0001-SO

SOLIDS	1	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

870196 DLASS-008-0001-SO

FOR LABEL ONLY	1	SOIL PREP/MIX
FOR LABEL ONLY	1	SOIL PREP/MIX

Total # of Containers of Type (*FOR LABEL ONLY*) = 2

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?

870197 DLASS-021-0001-SO

SOLIDS	1	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

870197 DLASS-021-0001-SO

FOR LABEL ONLY	1	SOIL PREP/MIX
FOR LABEL ONLY	1	SOIL PREP/MIX

Total # of Containers of Type (*FOR LABEL ONLY*) = 2

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?

870200 DLASS-005-0001-SO

SOLIDS	1	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

870200 DLASS-005-0001-SO

FOR LABEL ONLY	1	SOIL PREP/MIX
FOR LABEL ONLY	1	SOIL PREP/MIX

Total # of Containers of Type (*FOR LABEL ONLY*) = 2

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?

870201 DLASS-014-0001-SO

SOLIDS	1	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

870201 DLASS-014-0001-SO

FOR LABEL ONLY	1	SOIL PREP/MIX
FOR LABEL ONLY	1	SOIL PREP/MIX

Total # of Containers of Type (*FOR LABEL ONLY*) = 2

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?

870202 DLASS-011-0001-SO

SOLIDS	1	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

870202 DLASS-011-0001-SO

FOR LABEL ONLY	1	SOIL PREP/MIX
FOR LABEL ONLY	1	SOIL PREP/MIX

Total # of Containers of Type (*FOR LABEL ONLY*) = 2

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?

870203 DLASS-014-0003-SO

SOLIDS	1	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

870203 DLASS-014-0003-SO

FOR LABEL ONLY	1	SOIL PREP/MIX

	FOR LABEL ONLY	1		SOIL PREP/MIX	

Total # of Containers of Type (*FOR LABEL ONLY*) = 2

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
870204 DLASS-030-0001-SO					
	SOLIDS	1		%SOL	

Total # of Containers of Type (*SOLIDS*) = 1

870204 DLASS-030-0001-SO					
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	FOR LABEL ONLY	1		SOIL PREP/MIX	

Total # of Containers of Type (*FOR LABEL ONLY*) = 2

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
870207 DLASS-026-0001-SO					
	SOLIDS	1		%SOL	

Total # of Containers of Type (*SOLIDS*) = 1

870207 DLASS-026-0001-SO					
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	FOR LABEL ONLY	1		SOIL PREP/MIX	

Total # of Containers of Type (*FOR LABEL ONLY*) = 2

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
870208 DLASS-029-0001-SO					
	SOLIDS	1		%SOL	

Total # of Containers of Type (*SOLIDS*) = 1

870208 DLASS-029-0001-SO					
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	FOR LABEL ONLY	1		SOIL PREP/MIX	

Total # of Containers of Type (*FOR LABEL ONLY*) = 2

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
870209 DLASS-007-0001-SO					
	SOLIDS	1		%SOL	

Total # of Containers of Type (*SOLIDS*) = 1

870209 DLASS-007-0001-SO					
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	FOR LABEL ONLY	1		SOIL PREP/MIX	

Total # of Containers of Type (*FOR LABEL ONLY*) = 2

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
870210 DLASS-020-0001-SO					
	SOLIDS	1		%SOL	

Total # of Containers of Type (*SOLIDS*) = 1

870210 DLASS-020-0001-SO					
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	FOR LABEL ONLY	1		SOIL PREP/MIX	

Total # of Containers of Type (*FOR LABEL ONLY*) = 2

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?

870211 DLASS-028-0001-SO

SOLIDS	1	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

870211 DLASS-028-0001-SO

FOR LABEL ONLY	1	SOIL PREP/MIX
FOR LABEL ONLY	1	SOIL PREP/MIX

Total # of Containers of Type (*FOR LABEL ONLY*) = 2

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?

870212 DLASS-002-0003-SO

SOLIDS	1	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

870212 DLASS-002-0003-SO

FOR LABEL ONLY	1	SOIL PREP/MIX
FOR LABEL ONLY	1	SOIL PREP/MIX

Total # of Containers of Type (*FOR LABEL ONLY*) = 2

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?

870213 DLASS-012-0001-SO

SOLIDS	1	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

870213 DLASS-012-0001-SO

FOR LABEL ONLY	1	SOIL PREP/MIX
FOR LABEL ONLY	1	SOIL PREP/MIX

Total # of Containers of Type (*FOR LABEL ONLY*) = 2

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?

870214 DLASS-025-0001-SO

SOLIDS	1	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

870214 DLASS-025-0001-SO

FOR LABEL ONLY	1	SOIL PREP/MIX
FOR LABEL ONLY	1	SOIL PREP/MIX

Total # of Containers of Type (*FOR LABEL ONLY*) = 2

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?

870215 DLASS-006-0001-SO

SOLIDS	1	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

870215 DLASS-006-0001-SO

FOR LABEL ONLY	1	SOIL PREP/MIX
FOR LABEL ONLY	1	SOIL PREP/MIX

Total # of Containers of Type (*FOR LABEL ONLY*) = 2

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?

870216 DLASS-013-0001-SO

SOLIDS	1	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

870216 DLASS-013-0001-SO

FOR LABEL ONLY	1	SOIL PREP/MIX

FOR LABEL ONLY 1 SOIL PREP/MIX

Total # of Containers of Type (*FOR LABEL ONLY*) = 2

.....

Condition Code Condition Description

1 Sample Received OK

EMSL Analytical, Inc.
2001 East 52nd St., Indianapolis, IN 46205
Phone: (317) 803-2997 Fax: (317) 803-3047 Email: indianapolislab@emsl.com

Attn: **Pat Letterer**
CT Laboratories
1230 Lange Court
Baraboo, WI 53913-3109

Fax: (608) 356-2766 Phone: (608) 356-2760
Project: **NONE**

Customer ID: CTLA62
Customer PO:
Received: 11/12/10 9:30 AM
EMSL Order: 161019600

EMSL Proj:
Analysis Date: 11/17/2010

Test Report: PLM Analysis of Bulk Samples for Asbestos via EPA 600/R-93/116 Method with CARB 435 Prep (Milling) Level A for 0.25% Target Analytical Sensitivity

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
870188 *161019600-0001*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
870189 *161019600-0002*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
870190 *161019600-0003*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
870191 *161019600-0004*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
870192 *161019600-0005*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
870193 *161019600-0006*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
870194 *161019600-0007*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
870195 *161019600-0008*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
870196 *161019600-0009*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**

Initial report from 11/17/2010 15:18:09

Analyst(s)
Richard Harding (25)

Richard Harding, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. 2001 East 52nd St., Indianapolis IN

EMSL Analytical, Inc.
2001 East 52nd St., Indianapolis, IN 46205
Phone: (317) 803-2997 Fax: (317) 803-3047 Email: indianapolislab@emsl.com

Attn: **Pat Letterer**
CT Laboratories
1230 Lange Court
Baraboo, WI 53913-3109

Fax: (608) 356-2766 Phone: (608) 356-2760
Project: **NONE**

Customer ID: CTLA62
Customer PO:
Received: 11/12/10 9:30 AM
EMSL Order: 161019600

EMSL Proj:
Analysis Date: 11/17/2010

Test Report: PLM Analysis of Bulk Samples for Asbestos via EPA 600/R-93/116 Method with CARB 435 Prep (Milling) Level A for 0.25% Target Analytical Sensitivity

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
870197 *161019600-0010*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
870200 *161019600-0011*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
870201 *161019600-0012*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
870202 *161019600-0013*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
870203 *161019600-0014*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
870204 *161019600-0015*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
870207 *161019600-0016*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
870208 *161019600-0017*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
870209 *161019600-0018*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**

Initial report from 11/17/2010 15:18:09

Analyst(s)
Richard Harding (25)

Richard Harding, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. 2001 East 52nd St., Indianapolis IN

EMSL Analytical, Inc.
2001 East 52nd St., Indianapolis, IN 46205
Phone: (317) 803-2997 Fax: (317) 803-3047 Email: indianapolislab@emsl.com

Attn: **Pat Letterer**
CT Laboratories
1230 Lange Court
Baraboo, WI 53913-3109

Fax: (608) 356-2766 Phone: (608) 356-2760
Project: **NONE**

Customer ID: CTLA62
Customer PO:
Received: 11/12/10 9:30 AM
EMSL Order: 161019600

EMSL Proj:
Analysis Date: 11/17/2010

Test Report: PLM Analysis of Bulk Samples for Asbestos via EPA 600/R-93/116 Method with CARB 435 Prep (Milling) Level A for 0.25% Target Analytical Sensitivity

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
870210 *161019600-0019*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
870211 *161019600-0020*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
870212 *161019600-0021*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
870213 *161019600-0022*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
870214 *161019600-0023*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
870215 *161019600-0024*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
870216 *161019600-0025*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**

Initial report from 11/17/2010 15:18:09

Analyst(s)
Richard Harding (25)

Richard Harding, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. 2001 East 52nd St., Indianapolis IN

161019600

CT LABORATORIES
delivering more than data from your environmental analyses

1230 Lange Court • Baraboo, WI 53913 • 608-356-2760
www.ctlaboratories.com

Upon Receipt of Samples, please verify that samples were received in acceptable condition then sign this form and fax to (608)356-2766 or email to the project manager. **Sample temperature, upon receipt, must be recorded on this document unless thermal preservation is not a method requirement.**

Ship to: **EMSL Analytical Inc. - IN**
2001 East 52nd Street
Indianapolis, IN 46205

Return Invoice and Results to:
CT Laboratories
Pat Letterer
1230 Lange Court
Baraboo WI 53913
pletterer@ctlaboratories.com

PURCHASE ORDER # 82424 EMSLIN

The PO# must appear on all invoice and reports!

Date Due: 72 HOUR TAT

RUSH TURNAROUND NEEDED? Y ***or*** N ***(Circle One)***

Report results as EDD? N Y (Circle one and indicate type: _____) Data Deliverable Package LEVEL:_____

PML 11-1-10

CTLabs ID#	Sample Date/Time	Matrix	Sample Description	Analyses / Method	Cost
870188	11/10/2010 0955	SOIL	DLASS-027-0001-SO	ASBESTOS PLM CARB 435 Level A	99.75
870189	11/10/2010 1015	SOIL	DLASS-002-0001-SO	ASBESTOS	
870190	11/10/2010 1225	SOIL	DLASS-018-0001-SO	ASBESTOS	
870191	11/10/2010 1030	SOIL	DLASS-001-0001-SO	ASBESTOS	
870192	11/10/2010 1405	SOIL	DLASS-016-0001-SO	ASBESTOS	
870193	11/10/2010 1330	SOIL	DLASS-017-0001-SO	ASBESTOS	
870194	11/9/2010 1220	SOIL	DLASS-022-0001-SO	ASBESTOS	
870195	11/9/2010 1230	SOIL	DLASS-022-0003-SO	ASBESTOS	
870196	11/9/2010 1100	SOIL	DLASS-008-0001-SO	ASBESTOS	
870197	11/9/2010 1030	SOIL	DLASS-021-0001-SO	ASBESTOS	

161019600

870200	11/9/2010	0920	SOIL	DLASS-005-0001-SO	ASBESTOS	PLM CARB 435 Level A	99.75
870201	11/9/2010	1525	SOIL	DLASS-014-0001-SO	ASBESTOS		
870202	11/9/2010	1500	SOIL	DLASS-011-0001-SO	ASBESTOS		
870203	11/9/2010	1535	SOIL	DLASS-014-0003-SO	ASBESTOS		
870204	11/10/2010	1316	SOIL	DLASS-030-0001-SO	ASBESTOS		
870207	11/9/2010	1600	SOIL	DLASS-026-0001-SO	ASBESTOS		
870208	11/9/2010	1620	SOIL	DLASS-029-0001-SO	ASBESTOS		
870209	11/9/2010	0900	SOIL	DLASS-007-0001-SO	ASBESTOS		
870210	11/9/2010	1000	SOIL	DLASS-020-0001-SO	ASBESTOS		
870211	11/9/2010	1549	SOIL	DLASS-028-0001-SO	ASBESTOS		
870212	11/10/2010	1025	SOIL	DLASS-002-0003-SO	ASBESTOS		
870213	10/9/2010	1630	SOIL	DLASS-012-0001-SO	ASBESTOS		
870214	10/9/2010	1500	SOIL	DLASS-025-0001-SO	ASBESTOS		
870215	10/9/2010	0900	SOIL	DLASS-006-0001-SO	ASBESTOS		
870216	10/9/2010	1458	SOIL	DLASS-013-0001-SO	ASBESTOS		

Relinquished by: [signature]
Date/Time: 11/11/10 1300

Received by: Kathy Simmons Date/Time: 11/12/10 9:30 FX Receipt Temperature (C)

COMMENTS:

REPORT ALL SOLIDS ON A DRY WEIGHT BASIS UNLESS OTHERWISE INDICATED

161019600

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ANALYTICAL RESULTS FOR:

DEREK KINDER
USACE - LOUISVILLE
600 DR MLKJ PLACE
PO BOX 59 ROOM 921
LOUISVILLE, KY 40201-0059

PROJECT SITE: RAVENNA AAP

DOD CONTRACT #: W912QR-10-D-24

TASK ORDER #: 0010

SDG: 82458

PREPARED: January 6, 2011

TOTAL # OF PAGES IN THIS DOCUMENT: 1938

The data contained in the following report have been reviewed by the appropriate CTLaboratories' staff members. In addition, CTLaboratories certifies that to the best of our knowledge that the analyses reported herein are true, complete and correct within the limits of the methods employed and that they follow the applicable requirements as specified by the project plan, state-specific, NELAC or DOD QSM requirements. The estimated uncertainty of measurement is only available upon request. The reported results relate only to the tested samples. This report shall not be reproduced, except in full, without written approval of CTLaboratories.

APPROVED BY: _____
LABORATORY DIRECTOR

APPROVED BY: _____
QA OFFICER

APPROVED BY: _____
PROJECT MANAGER

Certifications: IL (NELAP 200046), KS (NELAP E-10368), KY (0023), PA (NELAP 68-04201), NJ (NELAP WI001), ND (R-171), WI (157066030), GA EDP Stipulation (Accreditor: ILNELAP, ACC#: 200465, Scope: Haz/solid water/Non-potable water, Effective : 11/19/2009, Expires: 09/30/2010)

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Case Narrative

Client: USACE - Louisville
Project: Ravenna AAP, Ravenna, OH
Sample Receipt Date: 11/12/2010
SDG #: 82458

Fourteen soil samples were received for the Ravenna AAP project. The assigned sample ID number, date sampled, and date received are indicated in the attached Project Summary. The sample was received intact and at a temperature within method specified acceptance limits. A breakdown of sample receipt information can be found on the Sample Condition Report located in the last section of the data package and any exceptions are noted below. The samples were analyzed following the DOD QSM v. 4.1 unless otherwise noted.

The sample was first dried, ground via puck mill and homogenized prior to analysis.

Sample Analysis and Quality Control

PCB Analysis:

The samples were analyzed using US EPA Method 8082. All samples were analyzed within the holding time. The following summaries of quality control procedures are included:

Surrogate Recovery Data
Matrix Spike/Matrix Spike Duplicate Recovery Data
Laboratory Control Spike Data
Method Blank Data
Initial Calibration Summary
Calibration Check Summary
Analysis Run Log
Prep Log
Chromatograms

All analysis results met the method specified quality control criteria with the following exceptions:

Analytical Run # 72009

All analysis results met the method/project specified quality control criteria.

The MS and MSD were analyzed on a sample from a different SDG.

Semi-volatile Analysis:

The samples were analyzed using US EPA Method 8270. All samples were analyzed within the holding time. The following summaries of quality control procedures are included:

Client: USACE - Louisville
Project: Ravenna AAP, Ravenna, OH
Sample Receipt Date: 11/12/2010
SDG #: 82458

Semi-volatile Analysis Continued:

Surrogate Recovery Data
Matrix Spike/Matrix Spike Duplicate Recovery Data
Laboratory Control Spike Data
Method Blank Data
Initial Calibration Summary
Calibration Check Summary
Analysis Run Log
Prep Log
Chromatograms

All analysis results met the method specified quality control criteria with the following exceptions:

8270 Soil Analyses

Detailed reports were provided for the 8270 data for all detected compounds, as well as, for those compounds manually integrated (if applicable). Compounds not reported on the form 1's were either not detected or did not meet identification criteria so they were reported as non-detects.

Manual integrations may have been performed on the data provided with this package. If manual integrations were performed, a Reason #(s) was included on the raw data that corresponds to the "Index Key for Manual Integration Rationale". The raw data includes a "Before" and "After" manual integration illustration. The manual integrations were initialed and dated by the analyst, as well as, by the person reviewing the data.

Analytical run 72179

Continuing calibration verification 2CCV47 analyzed on 12/02/2010 had high responses for the following compounds: 3-nitroaniline (24.6%), 4-nitroaniline (21.8%), benzidine (58.3%), and 3,3'-dichlorobenzidine (42.4%). This CCV also had low responses of the fifth and sixth internal standards, chrysene-d12 and perylene-d12. This CCV was only associated with the confirmation run of LCS 874149.

LCS 874149 had low recoveries of benzidine and pyridine. The recoveries were confirmed by repeat analysis. These compounds were qualified with a "Q" in the associated samples.

The MS and the MSD for sample # 870201 had recoveries outside the QC limits for 4-chloroaniline, 3,3'-dichlorobenzidine, 3-nitroaniline, 4-nitroaniline, aniline, benzidine, benzoic acid, and pyridine. These results were confirmed by reanalysis, and parent sample results for these compounds were qualified with an "M" flag. All RPDs between the spikes were within the QC limits.

Client: USACE - Louisville
Project: Ravenna AAP, Ravenna, OH
Sample Receipt Date: 11/12/2010
SDG #: 82458

Explosives Analysis:

The samples were analyzed using US EPA Method 8330B. All samples were analyzed within the holding time. The following summaries of quality control procedures are included:

Surrogate Recovery Data
Matrix Spike/Matrix Spike Duplicate Recovery Data
Laboratory Control Spike Data
Method Blank Data
Initial Calibration Summary
Calibration Check Summary
Analysis Run Log
Prep Log
Chromatograms

All analysis results met the method specified quality control criteria with the following exceptions:

Manual integrations may have been performed on the data provided with this package. If manual integrations were performed, a Reason #(s) was included on the raw data that corresponds to the "Index Key for Manual Integration Rationale". The raw data includes a "Before" and "After" manual integration illustration. The manual integrations were initialed and dated by the analyst, as well as, by the person reviewing the data.

All analysis results for this SDG met the method/project specified quality control criteria with following exceptions:

Analytical Run #72413

Samples 871184 and 871186 had high surrogate recoveries. Since there were no analyte hits in the samples, they were not analyzed on the confirmation column. The surrogate was qualified with an "S" flag.

Analytical Run #72412

The nitroguanidine (NQ) peak shapes in the client samples on the primary column analysis (sequence 121610NQ-primary) were irregular. They appeared to have something co-eluting with them, but splitting the contaminant from the NQ peak was not a good option. The NQ peaks on the confirmation column analysis had the correct shape and did not appear to have any co-eluting contamination issues. Therefore, all NQ data was reported from the confirmation column analysis on sequence 121610NQic-confirm.

Client: USACE - Louisville
Project: Ravenna AAP, Ravenna, OH
Sample Receipt Date: 11/12/2010
SDG #: 82458

Metals Analysis:

The samples were analyzed using US EPA SW-846 methodology 6010B for the ICP metals and 7471 for the mercury. All samples were analyzed within the holding time. The following summaries of quality control procedures are included:

Initial and Continuing Calibration Verification
Blanks Summary
ICP Interference Check Data
Spike Sample Recovery
Duplicates Data
Laboratory Control Sample Data
Analysis Run Log

All analysis results met the method specified quality control criteria with the following exceptions:

Analytical Run # 71910

The DUP, MS, MSD, PDS, and Serial Dilution for this run were analyzed on a sample from another SDG. The forms for these were included with this data package.

Barium and magnesium were detected above the Limit of Detection (LOD) in the calibration blank (ICB # 874979) that was analyzed prior to the sample analysis. There were no affected sample results bracketed by this calibration blank.

Calcium was detected above the LOD in the calibration blank (CCB # 878860). Affected sample results greater than 10 times the amount present in the blank were reported and qualified with a "B" flag.

The Continuing Calibration Verification (CCV # 874993) failed for calcium, cobalt, chromium, and magnesium, while CCV (# 875079) failed high for calcium and cobalt. The affected samples were reanalyzed for these elements.

CCV (# 875077) failed for calcium, cobalt, chromium, magnesium, and nickel, while CCV (# 875081) failed for calcium cobalt, and magnesium. The affected samples were reanalyzed for these elements.

CCVs (#'s 874994 and 874996) failed for cobalt, chromium, and nickel, while CCVs (#'s 875746 and 875748) failed for cobalt. The affected sample results were not reported for these elements.

Client: USACE - Louisville
Project: Ravenna AAP, Ravenna, OH
Sample Receipt Date: 11/12/2010
SDG #: 82458

Metals Analysis Continued:

CCV (# 875752) failed high for copper, nickel, lead, and antimony, and low for cobalt and chromium. The affected sample results were not reported for these elements, with the exception of the antimony results that were less than the LOD.

CCV (# 875750) failed high for copper, thallium, and antimony, and low for cobalt and manganese. The affected sample results were not reported for these elements, with the exception of the antimony and thallium results that were less than the LOD.

CCV (# 877041) failed high for selenium. The affected sample results were not reported for this element.

Calcium, copper, magnesium, and vanadium were detected above the LOD in the calibration blank (CCB # 875080). There were no affected sample results bracketed by this blank.

Barium, copper, and thallium were detected above the LOD in the calibration blank (CCB # 875082); but the associated sample results for barium and copper were greater than 10 times the amount present in the blank. The sample results for these two elements were qualified with a “B” flag. The samples were reanalyzed for thallium.

Barium and copper were detected above the LOD in the calibration blank (CCB # 875747); but the associated sample results were greater than 10 times the amount present in the blank, so the samples were not reanalyzed. The sample results for these two elements were qualified with a “B” flag.

Barium, calcium, copper, magnesium, selenium, thallium, and vanadium were detected above the LOD in the calibration blank (CCB # 875749). Associated sample results greater than ten times the amount present in the blank were reported and “B” qualified, while sample results less than the LOD were reported without qualification. Sample results greater than the LOD, but less than ten times the blank result were reanalyzed.

Vanadium and selenium were detected above the LOD in the calibration blank (CCB # 875751); but the associated sample results for vanadium were greater than 10 times the amount present in the blank. The sample results for this element were qualified with a “B” flag. The samples with results less than the LOD were reported for selenium, otherwise they were reanalyzed.

Manganese was detected above the LOD in the calibration blank (CCB # 877044); but the associated sample results were greater than 10 times the amount present in the blank, so the samples were not reanalyzed. The sample results for this element were qualified with a “B” flag.

Client: USACE - Louisville
Project: Ravenna AAP, Ravenna, OH
Sample Receipt Date: 11/12/2010
SDG #: 82458

Metals Analysis Continued:

Manganese and selenium were detected above the LOD in the calibration blank (CCB # 877046); but the associated sample results for manganese were greater than 10 times the amount present in the blank. The sample results for this element were qualified with a "B" flag. The samples were reanalyzed for selenium.

Calcium was detected above the LOD in the calibration blank (CCB # 878865); but the associated sample results were greater than 10 times the amount present in the blank, so the samples were not reanalyzed. The sample results for this element were qualified with a "B" flag.

Calcium was detected above the LOD in the calibration blank (CCB # 878867); but there were no associated sample results reported for this element.

Aluminum, iron, manganese, and vanadium were detected above ½ the Reporting Limit (RL) in the Method Blank (MBS # 873322). The results for these elements in the associated samples were all greater than 10 times the MBS results; therefore, the sample data was not qualified because of the MBS contamination.

The samples were analyzed at various dilutions to reduce matrix interference and to obtain the results for some of the target elements within the calibration range of the instrument. Thallium, selenium, antimony, and silver were not detected in some of the diluted samples, so they were qualified with a "V" flag in regards to the elevated reporting limits.

Analytical Run # 71911

The DUP, MS, MSD, PDS, and Serial Dilution for this run were analyzed on a sample from another SDG. The forms for these were included with this data package.

CVAA Mercury Analysis

Analytical Run # 72018

The DUP, MS, MSD, PDS, and Serial Dilution for this run were analyzed on a sample from another SDG. The forms for these were included with this data package.

Inorganic Analyses:

The samples were analyzed using US EPA Methods 7196A and 9056M. All samples were analyzed within the holding time. The following summaries of quality control procedures are included:

Client: USACE - Louisville
Project: Ravenna AAP, Ravenna, OH
Sample Receipt Date: 11/12/2010
SDG #: 82458

Inorganics Analysis Continued:

Duplicate Analysis Data
Laboratory Control Spike Data
Method Blank Data
Initial Calibration Summary
Calibration Check Summary
Analysis Run Log
Prep Log

All analysis results for this SDG met the method/project specified quality control criteria with the following exceptions:

Hex chrome Analyses

Analytical Run # 71974

The Duplicate, Matrix Spikes (soluble and insoluble), and Post Digestion Spike for this run were performed on a sample from another SDG. The raw data and forms for these were included with this package.

Nitrocellulose Analyses

Analytical Run # 72420

The Duplicate, Matrix Spike, and Matrix Spike Duplicate for this run were performed on a sample from another SDG. The raw data and forms for these were included with this package.

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Data Qualifiers

Code	Description
A	Analyte averaged calibration criteria within acceptable limits.
B	Analyte detected in associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
U	Analyte concentration was not above the detection level.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Calibration criteria exceeded.

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MANUAL INTEGRATION REASON CODES

CTLaboratories has identified four general cases with valid reasons supporting the use of manual integration techniques. These codes are used on chromatograms in this data package to document the reasons for manual integrations per CTLaboratories' SOP SS-10 current revision.

#1: **Data system failed to select the correct peak or missed the peak entirely.**
In some cases the chromatography system selects and integrates the "wrong peak". In this case the analyst must correct the selection and force the system to integrate the proper peak. In other instances the system may miss the peak completely. In this case the analyst manually integrated the peak

#2: **Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak.**
This phenomenon is common at low concentrations where the signal to noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low or high area counts for the target compound.

#3: Improperly Integrated Isomers and/or coeluting compounds.
For when the system fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations may be inaccurate, and they must be corrected by manual integration. Prime examples are compounds that are unresolved and integrated improperly when present at low concentrations in standards or samples.

#4: System Established Incorrect Baseline.
There are numerous situations in chromatography where the system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and may be corrected via manual procedures.

#5: Miscellaneous.
Some situations involving integration errors may require in-depth review and technical judgment. These cases should be brought to the attention of the group supervisor. If the form of manual integration is not clearly covered by these four cases, then review and approval by the group supervisor or the *QA/QC* Supervisor will be required.

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1230 Lange Court • Baraboo, WI 53913 • 608-356-2760
www.ctlaboratories.com

Sample Delivery Group

82458

USACE - LOUISVILLE
DEREK KINDER
600 DR MLKJ PLACE
PO BOX 59 ROOM 921
LOUISVILLE, KY 40201-0059

Project Name: RAVENNA ORE PILES
Project #: W912QR-10-D-0024

CT Sample #	Folder #	Client Sample #	Sample Description	Matrix	Date Sampled	Date Received
871184	82458		DLASS-032-0003-SO	SOIL	11/11/2010	11/12/2010
871186	82458		DLASS-042-0003-SO	SOIL	11/11/2010	11/12/2010
871187	82458		DLASS-035-0001-SO	SOIL	11/11/2010	11/12/2010
871188	82458		DLASS-036-0001-SO	SOIL	11/11/2010	11/12/2010
871189	82458		DLASS-031-0001-SO	SOIL	11/11/2010	11/12/2010
871190	82458		DLASS-039-0001-SO	SOIL	11/11/2010	11/12/2010
871191	82458		DLASS-037-0001-SO	SOIL	11/11/2010	11/12/2010
871192	82458		DLASS-034-0001-SO	SOIL	11/11/2010	11/12/2010
871193	82458		DLASS-038-0001-SO	SOIL	11/11/2010	11/12/2010
871194	82458		DLASS-044-0001-SO	SOIL	11/11/2010	11/12/2010
871195	82458		DLASS-041-0001-SO	SOIL	11/11/2010	11/12/2010
871196	82458		DLASS-040-0001-SO	SOIL	11/11/2010	11/12/2010
871197	82458		DLASS-042-0001-SO	SOIL	11/11/2010	11/12/2010
871198	82458		DLASS-032-0001-SO	SOIL	11/11/2010	11/12/2010

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QC Batch Cross Reference Summary

USACE - LOUISVILLE
DEREK KINDER
600 DR MLKJ PLACE
PO BOX 59 ROOM 921
LOUISVILLE, KY 40201-0059

Project Name:	RAVENNA ORE PILES
Project #:	W912QR-10-D-0024
Report Date:	12/29/2010
Date Received:	11/12/2010
SDG #:	82458

Inorganic Parameters

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
871184	Solids, Percent	SOIL		71954
871186	Solids, Percent	SOIL		71954
871187	Solids, Percent	SOIL		71954
871188	Solids, Percent	SOIL		71954
871189	Solids, Percent	SOIL		71954
871190	Solids, Percent	SOIL		71954
871191	Solids, Percent	SOIL		71954
871192	Solids, Percent	SOIL		71954
871193	Solids, Percent	SOIL		71954
871194	Solids, Percent	SOIL		71954
871195	Solids, Percent	SOIL		71954
871196	Solids, Percent	SOIL		71954
871197	Solids, Percent	SOIL		71954
871198	Solids, Percent	SOIL		71954

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
871184	Nitrocellulose	SOIL	35693	72420
871186	Nitrocellulose	SOIL	35693	72420
871197	Nitrocellulose	SOIL	35693	72420
871198	Nitrocellulose	SOIL	35693	72420

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
871184	Hexavalent Chromium-QSM Soil	SOIL	35540	71974
871186	Hexavalent Chromium-QSM Soil	SOIL	35540	71974
871187	Hexavalent Chromium-QSM Soil	SOIL	35540	71974
871188	Hexavalent Chromium-QSM Soil	SOIL	35540	71974
871189	Hexavalent Chromium-QSM Soil	SOIL	35540	71974
871190	Hexavalent Chromium-QSM Soil	SOIL	35540	71974
871191	Hexavalent Chromium-QSM Soil	SOIL	35540	71974
871192	Hexavalent Chromium-QSM Soil	SOIL	35540	71974
871193	Hexavalent Chromium-QSM Soil	SOIL	35540	71974

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Project Name: RAVENNA ORE PILES
Project #: W912QR-10-D-0024
SDG #: 82458

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
871194	Hexavalent Chromium-QSM Soil	SOIL	35540	71974
871195	Hexavalent Chromium-QSM Soil	SOIL	35540	71974
871196	Hexavalent Chromium-QSM Soil	SOIL	35540	71974
871197	Hexavalent Chromium-QSM Soil	SOIL	35540	71974
871198	Hexavalent Chromium-QSM Soil	SOIL	35540	71974

Metal Parameters

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
871184	ICP Metals QSM	SOIL	35475	71910
871186	ICP Metals QSM	SOIL	35475	71910
871187	ICP Metals QSM	SOIL	35475	71910
871188	ICP Metals QSM	SOIL	35475	71910
871189	ICP Metals QSM	SOIL	35475	71910
871190	ICP Metals QSM	SOIL	35475	71910
871191	ICP Metals QSM	SOIL	35475	71910
871192	ICP Metals QSM	SOIL	35475	71910
871193	ICP Metals QSM	SOIL	35475	71910
871194	ICP Metals QSM	SOIL	35475	71910
871195	ICP Metals QSM	SOIL	35475	71910
871196	ICP Metals QSM	SOIL	35475	71910
871197	ICP Metals QSM	SOIL	35475	71910
871198	ICP Metals QSM	SOIL	35475	71910
871184	ICP Metals QSM	SOIL	35475	71910
871186	ICP Metals QSM	SOIL	35475	71910
871187	ICP Metals QSM	SOIL	35475	71910
871188	ICP Metals QSM	SOIL	35475	71910
871189	ICP Metals QSM	SOIL	35475	71910
871190	ICP Metals QSM	SOIL	35475	71910
871191	ICP Metals QSM	SOIL	35475	71910
871192	ICP Metals QSM	SOIL	35475	71910
871193	ICP Metals QSM	SOIL	35475	71910
871194	ICP Metals QSM	SOIL	35475	71910
871195	ICP Metals QSM	SOIL	35475	71910
871196	ICP Metals QSM	SOIL	35475	71910
871197	ICP Metals QSM	SOIL	35475	71910
871198	ICP Metals QSM	SOIL	35475	71910
871184	ICP Metals QSM	SOIL	35475	71910
871186	ICP Metals QSM	SOIL	35475	71910
871187	ICP Metals QSM	SOIL	35475	71910
871188	ICP Metals QSM	SOIL	35475	71910

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Project Name: RAVENNA ORE PILES
Project #: W912QR-10-D-0024
SDG #: 82458

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
871189	ICP Metals QSM	SOIL	35475	71910
871190	ICP Metals QSM	SOIL	35475	71910
871191	ICP Metals QSM	SOIL	35475	71910
871192	ICP Metals QSM	SOIL	35475	71910
871193	ICP Metals QSM	SOIL	35475	71910
871194	ICP Metals QSM	SOIL	35475	71910
871195	ICP Metals QSM	SOIL	35475	71910
871196	ICP Metals QSM	SOIL	35475	71910
871197	ICP Metals QSM	SOIL	35475	71910
871198	ICP Metals QSM	SOIL	35475	71910
871184	ICP Metals QSM	SOIL	35475	71910
871186	ICP Metals QSM	SOIL	35475	71910
871187	ICP Metals QSM	SOIL	35475	71910
871188	ICP Metals QSM	SOIL	35475	71910
871189	ICP Metals QSM	SOIL	35475	71910
871190	ICP Metals QSM	SOIL	35475	71910
871191	ICP Metals QSM	SOIL	35475	71910
871192	ICP Metals QSM	SOIL	35475	71910
871193	ICP Metals QSM	SOIL	35475	71910
871194	ICP Metals QSM	SOIL	35475	71910
871195	ICP Metals QSM	SOIL	35475	71910
871196	ICP Metals QSM	SOIL	35475	71910
871197	ICP Metals QSM	SOIL	35475	71910
871198	ICP Metals QSM	SOIL	35475	71910
871184	ICP Metals QSM	SOIL	35475	71910
871187	ICP Metals QSM	SOIL	35475	71910
871188	ICP Metals QSM	SOIL	35475	71910
871190	ICP Metals QSM	SOIL	35475	71910
871191	ICP Metals QSM	SOIL	35475	71910
871192	ICP Metals QSM	SOIL	35475	71910
871193	ICP Metals QSM	SOIL	35475	71910
871194	ICP Metals QSM	SOIL	35475	71910
871195	ICP Metals QSM	SOIL	35475	71910
871196	ICP Metals QSM	SOIL	35475	71910
871197	ICP Metals QSM	SOIL	35475	71910
871198	ICP Metals QSM	SOIL	35475	71910
871184	ICP Metals QSM	SOIL	35475	71910
871188	ICP Metals QSM	SOIL	35475	71910
871193	ICP Metals QSM	SOIL	35475	71910
871194	ICP Metals QSM	SOIL	35475	71910
871195	ICP Metals QSM	SOIL	35475	71910
871196	ICP Metals QSM	SOIL	35475	71910

CT LABORATORIES
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Project Name: RAVENNA ORE PILES
Project #: W912QR-10-D-0024
SDG #: 82458

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
871197	ICP Metals QSM	SOIL	35475	71910
871198	ICP Metals QSM	SOIL	35475	71910
871193	ICP Metals QSM	SOIL	35475	71910
871194	ICP Metals QSM	SOIL	35475	71910
871198	ICP Metals QSM	SOIL	35475	71910
871198	ICP Metals QSM	SOIL	35475	71910

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
871184	Potassium QSM	SOIL	35475	71911
871186	Potassium QSM	SOIL	35475	71911
871187	Potassium QSM	SOIL	35475	71911
871188	Potassium QSM	SOIL	35475	71911
871189	Potassium QSM	SOIL	35475	71911
871190	Potassium QSM	SOIL	35475	71911
871191	Potassium QSM	SOIL	35475	71911
871192	Potassium QSM	SOIL	35475	71911
871193	Potassium QSM	SOIL	35475	71911
871194	Potassium QSM	SOIL	35475	71911
871195	Potassium QSM	SOIL	35475	71911
871196	Potassium QSM	SOIL	35475	71911
871197	Potassium QSM	SOIL	35475	71911
871198	Potassium QSM	SOIL	35475	71911

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
871184	Sodium QSM	SOIL	35475	71911
871186	Sodium QSM	SOIL	35475	71911
871187	Sodium QSM	SOIL	35475	71911
871188	Sodium QSM	SOIL	35475	71911
871189	Sodium QSM	SOIL	35475	71911
871190	Sodium QSM	SOIL	35475	71911
871191	Sodium QSM	SOIL	35475	71911
871192	Sodium QSM	SOIL	35475	71911
871193	Sodium QSM	SOIL	35475	71911
871194	Sodium QSM	SOIL	35475	71911
871195	Sodium QSM	SOIL	35475	71911
871196	Sodium QSM	SOIL	35475	71911
871197	Sodium QSM	SOIL	35475	71911
871198	Sodium QSM	SOIL	35475	71911

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
871184	Mercury QSM	SOIL	35531	72018
871186	Mercury QSM	SOIL	35531	72018
871187	Mercury QSM	SOIL	35531	72018
871188	Mercury QSM	SOIL	35531	72018

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Project Name: RAVENNA ORE PILES
Project #: W912QR-10-D-0024
SDG #: 82458

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
871189	Mercury QSM	SOIL	35531	72018
871190	Mercury QSM	SOIL	35531	72018
871191	Mercury QSM	SOIL	35531	72018
871192	Mercury QSM	SOIL	35531	72018
871193	Mercury QSM	SOIL	35531	72018
871194	Mercury QSM	SOIL	35531	72018
871195	Mercury QSM	SOIL	35531	72018
871196	Mercury QSM	SOIL	35531	72018
871197	Mercury QSM	SOIL	35531	72018
871198	Mercury QSM	SOIL	35531	72018

Organic Parameters

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
871184	SVOC 8270 QSM	SOIL	35517	72179
871186	SVOC 8270 QSM	SOIL	35517	72179
871197	SVOC 8270 QSM	SOIL	35517	72179
871198	SVOC 8270 QSM	SOIL	35517	72179

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
871184	PCB	SOIL	35516	72009
871186	PCB	SOIL	35516	72009
871197	PCB	SOIL	35516	72009
871198	PCB	SOIL	35516	72009

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
871184	Explosives by 8330	SOIL	35573	72412
871186	Explosives by 8330	SOIL	35573	72412
871197	Explosives by 8330	SOIL	35573	72412
871198	Explosives by 8330	SOIL	35573	72412

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
871184	Explosives by 8330	SOIL	35571	72413
871186	Explosives by 8330	SOIL	35571	72413
871197	Explosives by 8330	SOIL	35571	72413
871198	Explosives by 8330	SOIL	35571	72413

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
871184	Homogenization/Multi Incremental Prep	SOIL		71886
871186	Homogenization/Multi Incremental Prep	SOIL		71886
871187	Homogenization/Multi Incremental Prep	SOIL		71886
871188	Homogenization/Multi Incremental Prep	SOIL		71886
871189	Homogenization/Multi Incremental Prep	SOIL		71886
871190	Homogenization/Multi Incremental Prep	SOIL		71886
871191	Homogenization/Multi Incremental Prep	SOIL		71886

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Project Name: RAVENNA ORE PILES
Project #: W912QR-10-D-0024
SDG #: 82458

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
871192	Homogenization/Multi Incremental Prep	SOIL		71886
871193	Homogenization/Multi Incremental Prep	SOIL		71886
871194	Homogenization/Multi Incremental Prep	SOIL		71886
871195	Homogenization/Multi Incremental Prep	SOIL		71886
871196	Homogenization/Multi Incremental Prep	SOIL		71886
871197	Homogenization/Multi Incremental Prep	SOIL		71886
871198	Homogenization/Multi Incremental Prep	SOIL		71886

SEMI-VOLATILE ORGANIC ANALYSIS
QUALITY CONTROL SUMMARY
DOCUMENTS

CT LABORATORIES
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1B

SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

DLASS-032-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix:	SOIL	SDG No.:	82458
Sample wt/vol:	10.02 (g/L)	CTL Sample ID:	871184
% Solids:	98.1	Date Received:	11/12/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	11/22/2010 / 10:00
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35517
Analytical Run #:	72179	Dilution Factor:	1.00
Date & Time Analyzed:	12/02/2010 / 21:06	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
120-82-1	1,2,4-Trichlorobenzene	21	U	21	100	410	410
95-50-1	1,2-Dichlorobenzene	24	U	24	100	410	410
541-73-1	1,3-Dichlorobenzene	20	U	20	100	410	410
106-46-7	1,4-Dichlorobenzene	19	U	19	100	410	410
90-12-0	1-Methylnaphthalene	310	J	25	100	410	410
95-95-4	2,4,5-Trichlorophenol	130	U	130	410	510	510
88-06-2	2,4,6-Trichlorophenol	130	U	130	410	510	510
120-83-2	2,4-Dichlorophenol	120	U	120	410	510	510
105-67-9	2,4-Dimethylphenol	100	U	100	100	410	410
51-28-5	2,4-Dinitrophenol	700	U	700	1000	2000	2300
121-14-2	2,4-Dinitrotoluene	24	U	24	100	410	410
87-65-0	2,6-Dichlorophenol	140	U	140	410	510	510
606-20-2	2,6-Dinitrotoluene	24	U	24	100	410	410
91-58-7	2-Chloronaphthalene	23	U	23	100	410	410
95-57-8	2-Chlorophenol	350	U	350	410	510	1100
91-57-6	2-Methylnaphthalene	410		25	100	410	410
95-48-7	2-Methylphenol	430	U	430	510	1000	1400
88-74-4	2-Nitroaniline	23	U	23	100	410	410
88-75-5	2-Nitrophenol	280	U	280	410	510	960
1319-77-3	3 & 4-Methylphenol	660	U	660	1000	2000	2200
91-94-1	3,3'-Dichlorobenzidine	150	U	150	410	510	510
99-09-2	3-Nitroaniline	22	U	22	410	1000	1000
534-52-1	4,6-Dinitro-2-methylphenol	270	U	270	410	1000	1000
101-55-3	4-Bromophenyl-phenyl ether	25	U	25	100	410	410

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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description: **DLASS-032-0003-SO**

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix:	SOIL	SDG No.:	82458
Sample wt/vol:	10.02 (g/L)	CTL Sample ID:	871184
% Solids:	98.1	Date Received:	11/12/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	11/22/2010 / 10:00
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35517
Analytical Run #:	72179	Dilution Factor:	1.00
Date & Time Analyzed:	12/02/2010 / 21:06	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
59-50-7	4-Chloro-3-methylphenol	390	U	390	410	510	1300
106-47-8	4-Chloroaniline	40	U	40	100	410	410
7005-72-3	4-Chlorophenyl-phenyl ether	26	U	26	100	410	410
100-01-6	4-Nitroaniline	31	U	31	410	1000	1000
100-02-7	4-Nitrophenol	410	U	410	410	1000	1300
83-32-9	Acenaphthene	24	U	24	100	410	410
208-96-8	Acenaphthylene	52	J	24	100	410	410
98-86-2	Acetophenone	76	U	76	100	410	410
62-53-3	Aniline	32	U	32	100	410	410
120-12-7	Anthracene	90	J	24	100	410	410
103-33-3/122-66-7	Azobenzene & 1,2-Diphenylhydra	56	U	56	200	810	810
92-87-5	Benzidine	970	U Q	970	1000	2000	3300
56-55-3	Benzo(a)anthracene	360	J	25	100	410	410
50-32-8	Benzo(a)pyrene	270	J	23	100	410	410
205-99-2	Benzo(b)fluoranthene	390	J	25	100	410	410
191-24-2	Benzo(g,h,i)perylene	160	J	22	100	410	410
207-08-9	Benzo(k)fluoranthene	170	J	25	100	410	410
65-85-0	Benzoic acid	300	U	300	510	2000	2000
100-51-6	Benzyl alcohol	84	U	84	510	1000	1000
111-91-1	Bis(2-chloroethoxy)methane	23	U	23	100	410	410
111-44-4	Bis(2-chloroethyl)ether	25	U	25	100	410	410
108-60-1	Bis(2-chloroisopropyl)ether	31	U	31	100	410	410
117-81-7	Bis(2-ethylhexyl)phthalate	790	J	89	100	1000	1000
85-68-7	Butylbenzylphthalate	74	U	74	100	410	410

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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description: **DLASS-032-0003-SO**

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix:	SOIL	SDG No.:	82458
Sample wt/vol:	10.02 (g/L)	CTL Sample ID:	871184
% Solids:	98.1	Date Received:	11/12/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	11/22/2010 / 10:00
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35517
Analytical Run #:	72179	Dilution Factor:	1.00
Date & Time Analyzed:	12/02/2010 / 21:06	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
86-74-8	Carbazole	28	U	28	100	410	410
218-01-9	Chrysene	350	J	25	100	410	410
53-70-3	Dibenzo(a,h)anthracene	44	J	22	100	410	410
132-64-9	Dibenzofuran	73	J	24	100	410	410
84-66-2	Diethylphthalate	65	U	65	100	410	410
131-11-3	Dimethylphthalate	64	U	64	100	410	410
84-74-2	Di-n-butylphthalate	130	J	80	100	410	410
117-84-0	Di-n-octylphthalate	60	U	60	100	410	410
206-44-0	Fluoranthene	730		26	100	410	410
86-73-7	Fluorene	25	J	25	100	410	410
118-74-1	Hexachlorobenzene	28	U	28	100	410	410
87-68-3	Hexachlorobutadiene	63	U	63	100	410	410
77-47-4	Hexachlorocyclopentadiene	53	U	53	100	410	410
67-72-1	Hexachloroethane	34	U	34	100	410	410
193-39-5	Indeno(1,2,3-cd)pyrene	150	J	23	100	410	410
78-59-1	Isophorone	51	U	51	100	410	410
91-20-3	Naphthalene	220	J	21	100	410	410
98-95-3	Nitrobenzene	60	U	60	100	410	410
62-75-9	N-Nitrosodimethylamine	79	U	79	100	410	410
621-64-7	N-Nitroso-di-n-propylamine	71	U	71	100	410	410
86-30-6/122-39-4	N-Nitrosodiphenylamine & Diphn	51	U	51	200	810	810
930-55-2	N-Nitrosopyrrolidine	57	U	57	100	410	410
87-86-5	Pentachlorophenol	240	U	240	410	1000	1000
85-01-8	Phenanthrene	420		26	100	410	410

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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

DLASS-032-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix:	SOIL	SDG No.:	82458
Sample wt/vol:	10.02 (g/L)	CTL Sample ID:	871184
% Solids:	98.1	Date Received:	11/12/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	11/22/2010 / 10:00
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35517
Analytical Run #:	72179	Dilution Factor:	1.00
Date & Time Analyzed:	12/02/2010 / 21:06	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
	Concentration Units:	ug/kg	

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
108-95-2	Phenol	160	U	160	410	510	540
129-00-0	Pyrene	590		26	100	410	410
110-86-1	Pyridine	40	U Q	40	100	410	410

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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

DLASS-032-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix:	SOIL	SDG No.:	82458
Sample wt/vol:	5.01 (g/L)	CTL Sample ID:	871184
% Solids:	98.1	Date Received:	11/12/2010
Conc. Extract Vol:	10.0 (mL)	Date/Time Prepared:	12/02/2010 / 12:00
Analytical Method:	EPA 8330	Analytical Prep Batch #	35573
Analytical Run #:	72412	Dilution Factor:	1.00
Date & Time Analyzed:	12/16/2010 / 23:46	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
	Concentration Units:	mg/kg	

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
556-88-7	Nitroguanidine	0.10	J P	0.060	0.12	0.16	0.21

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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

DLASS-032-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix:	SOIL	SDG No.:	82458
Sample wt/vol:	9.92 (g/L)	CTL Sample ID:	871184
% Solids:	98.1	Date Received:	11/12/2010
Conc. Extract Vol:	20.0 (mL)	Date/Time Prepared:	12/02/2010 / 13:30
Analytical Method:	EPA 8330B	Analytical Prep Batch #	35571
Analytical Run #:	72413	Dilution Factor:	1.00
Date & Time Analyzed:	12/14/2010 / 13:03	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
	Concentration Units:	mg/kg	

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
99-35-4	1,3,5-Trinitrobenzene	0.13	U	0.13	0.40	0.44	0.44
99-65-0	1,3-Dinitrobenzene	0.081	U	0.081	0.40	0.44	0.44
118-96-7	2,4,6-Trinitrotoluene	0.091	U	0.091	0.40	0.44	0.44
121-14-2	2,4-Dinitrotoluene	0.20	U	0.20	0.40	0.44	0.67
606-20-2	2,6-Dinitrotoluene	0.071	U	0.071	0.40	0.50	0.50
35572-78-2	2-Amino-4,6-dinitrotoluene	0.050	U	0.050	0.40	0.44	0.44
88-72-2	2-Nitrotoluene	0.091	U	0.091	0.40	0.44	0.44
618-87-1	3,5-Dinitroaniline	0.091	U	0.091	0.40	0.44	0.44
99-08-1	3-Nitrotoluene	0.071	U	0.071	0.40	0.44	0.44
19406-51-0	4-Amino-2,6-dinitrotoluene	0.071	U	0.071	0.40	0.44	0.44
99-99-0	4-Nitrotoluene	0.071	U	0.071	0.44	0.50	0.50
2691-41-0	HMX	0.12	U	0.12	0.40	0.44	0.44
98-95-3	Nitrobenzene	0.040	U	0.040	0.40	0.44	0.44
55-63-0	Nitroglycerin	0.50	U	0.50	1.2	1.5	1.8
78-11-5	PETN	0.50	U	0.50	1.2	1.5	1.8
121-82-4	RDX	0.16	U	0.16	0.40	0.44	0.52
479-45-8	Tetryl	0.091	U	0.091	0.40	0.44	0.44

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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

DLASS-042-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix:	SOIL	SDG No.:	82458
Sample wt/vol:	10.06 (g/L)	CTL Sample ID:	871186
% Solids:	99.1	Date Received:	11/12/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	11/22/2010 / 10:00
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35517
Analytical Run #:	72179	Dilution Factor:	1.00
Date & Time Analyzed:	12/02/2010 / 21:26	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
120-82-1	1,2,4-Trichlorobenzene	21	U	21	100	400	400
95-50-1	1,2-Dichlorobenzene	24	U	24	100	400	400
541-73-1	1,3-Dichlorobenzene	20	U	20	100	400	400
106-46-7	1,4-Dichlorobenzene	19	U	19	100	400	400
90-12-0	1-Methylnaphthalene	33	J	25	100	400	400
95-95-4	2,4,5-Trichlorophenol	130	U	130	400	500	500
88-06-2	2,4,6-Trichlorophenol	130	U	130	400	500	500
120-83-2	2,4-Dichlorophenol	120	U	120	400	500	500
105-67-9	2,4-Dimethylphenol	99	U	99	100	400	400
51-28-5	2,4-Dinitrophenol	690	U	690	1000	2000	2300
121-14-2	2,4-Dinitrotoluene	24	U	24	100	400	400
87-65-0	2,6-Dichlorophenol	140	U	140	400	500	500
606-20-2	2,6-Dinitrotoluene	24	U	24	100	400	400
91-58-7	2-Chloronaphthalene	23	U	23	100	400	400
95-57-8	2-Chlorophenol	340	U	340	400	500	1100
91-57-6	2-Methylnaphthalene	47	J	25	100	400	400
95-48-7	2-Methylphenol	420	U	420	500	1000	1400
88-74-4	2-Nitroaniline	23	U	23	100	400	400
88-75-5	2-Nitrophenol	280	U	280	400	500	940
1319-77-3	3 & 4-Methylphenol	650	U	650	1000	2000	2200
91-94-1	3,3'-Dichlorobenzidine	150	U	150	400	500	500
99-09-2	3-Nitroaniline	22	U	22	400	1000	1000
534-52-1	4,6-Dinitro-2-methylphenol	270	U	270	400	1000	1000
101-55-3	4-Bromophenyl-phenyl ether	25	U	25	100	400	400

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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description: **DLASS-042-0003-SO**

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix:	SOIL	SDG No.:	82458
Sample wt/vol:	10.06 (g/L)	CTL Sample ID:	871186
% Solids:	99.1	Date Received:	11/12/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	11/22/2010 / 10:00
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35517
Analytical Run #:	72179	Dilution Factor:	1.00
Date & Time Analyzed:	12/02/2010 / 21:26	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
59-50-7	4-Chloro-3-methylphenol	380	U	380	400	500	1300
106-47-8	4-Chloroaniline	39	U	39	100	400	400
7005-72-3	4-Chlorophenyl-phenyl ether	26	U	26	100	400	400
100-01-6	4-Nitroaniline	30	U	30	400	1000	1000
100-02-7	4-Nitrophenol	400	U	400	400	1000	1300
83-32-9	Acenaphthene	24	U	24	100	400	400
208-96-8	Acenaphthylene	24	U	24	100	400	400
98-86-2	Acetophenone	75	U	75	100	400	400
62-53-3	Aniline	31	U	31	100	400	400
120-12-7	Anthracene	24	U	24	100	400	400
103-33-3/122-66-7	Azobenzene & 1,2-Diphenylhydra	55	U	55	200	800	800
92-87-5	Benzidine	950	U Q	950	1000	2000	3200
56-55-3	Benzo(a)anthracene	33	J	25	100	400	400
50-32-8	Benzo(a)pyrene	31	J	23	100	400	400
205-99-2	Benzo(b)fluoranthene	55	J	25	100	400	400
191-24-2	Benzo(g,h,i)perylene	24	J	22	100	400	400
207-08-9	Benzo(k)fluoranthene	25	U	25	100	400	400
65-85-0	Benzoic acid	340	J	290	500	2000	2000
100-51-6	Benzyl alcohol	83	U	83	500	1000	1000
111-91-1	Bis(2-chloroethoxy)methane	23	U	23	100	400	400
111-44-4	Bis(2-chloroethyl)ether	25	U	25	100	400	400
108-60-1	Bis(2-chloroisopropyl)ether	30	U	30	100	400	400
117-81-7	Bis(2-ethylhexyl)phthalate	87	U	87	100	1000	1000
85-68-7	Butylbenzylphthalate	73	U	73	100	400	400

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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

DLASS-042-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix:	SOIL	SDG No.:	82458
Sample wt/vol:	10.06 (g/L)	CTL Sample ID:	871186
% Solids:	99.1	Date Received:	11/12/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	11/22/2010 / 10:00
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35517
Analytical Run #:	72179	Dilution Factor:	1.00
Date & Time Analyzed:	12/02/2010 / 21:26	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
86-74-8	Carbazole	28	U	28	100	400	400
218-01-9	Chrysene	38	J	25	100	400	400
53-70-3	Dibenzo(a,h)anthracene	22	U	22	100	400	400
132-64-9	Dibenzofuran	24	U	24	100	400	400
84-66-2	Diethylphthalate	64	U	64	100	400	400
131-11-3	Dimethylphthalate	63	U	63	100	400	400
84-74-2	Di-n-butylphthalate	220	J	79	100	400	400
117-84-0	Di-n-octylphthalate	59	U	59	100	400	400
206-44-0	Fluoranthene	60	J	26	100	400	400
86-73-7	Fluorene	25	U	25	100	400	400
118-74-1	Hexachlorobenzene	28	U	28	100	400	400
87-68-3	Hexachlorobutadiene	62	U	62	100	400	400
77-47-4	Hexachlorocyclopentadiene	52	U	52	100	400	400
67-72-1	Hexachloroethane	33	U	33	100	400	400
193-39-5	Indeno(1,2,3-cd)pyrene	24	J	23	100	400	400
78-59-1	Isophorone	50	U	50	100	400	400
91-20-3	Naphthalene	34	J	21	100	400	400
98-95-3	Nitrobenzene	59	U	59	100	400	400
62-75-9	N-Nitrosodimethylamine	78	U	78	100	400	400
621-64-7	N-Nitroso-di-n-propylamine	70	U	70	100	400	400
86-30-6/122-39-4	N-Nitrosodiphenylamine & Diphn	50	U	50	200	800	800
930-55-2	N-Nitrosopyrrolidine	56	U	56	100	400	400
87-86-5	Pentachlorophenol	240	U	240	400	1000	1000
85-01-8	Phenanthrene	44	J	26	100	400	400

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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

DLASS-042-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix:	SOIL	SDG No.:	82458
Sample wt/vol:	10.06 (g/L)	CTL Sample ID:	871186
% Solids:	99.1	Date Received:	11/12/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	11/22/2010 / 10:00
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35517
Analytical Run #:	72179	Dilution Factor:	1.00
Date & Time Analyzed:	12/02/2010 / 21:26	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
	Concentration Units:	ug/kg	

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
108-95-2	Phenol	160	U	160	400	500	530
129-00-0	Pyrene	51	J	26	100	400	400
110-86-1	Pyridine	39	U Q	39	100	400	400

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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

DLASS-042-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix:	SOIL	SDG No.:	82458
Sample wt/vol:	4.94 (g/L)	CTL Sample ID:	871186
% Solids:	99.1	Date Received:	11/12/2010
Conc. Extract Vol:	10.0 (mL)	Date/Time Prepared:	12/02/2010 / 12:00
Analytical Method:	EPA 8330	Analytical Prep Batch #	35573
Analytical Run #:	72412	Dilution Factor:	1.00
Date & Time Analyzed:	12/17/2010 / 00:00	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
	Concentration Units:	mg/kg	

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
556-88-7	Nitroguanidine	0.085	J P	0.061	0.12	0.16	0.21

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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

DLASS-042-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix:	SOIL	SDG No.:	82458
Sample wt/vol:	9.94 (g/L)	CTL Sample ID:	871186
% Solids:	99.1	Date Received:	11/12/2010
Conc. Extract Vol:	20.0 (mL)	Date/Time Prepared:	12/02/2010 / 13:30
Analytical Method:	EPA 8330B	Analytical Prep Batch #	35571
Analytical Run #:	72413	Dilution Factor:	1.00
Date & Time Analyzed:	12/14/2010 / 13:26	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
	Concentration Units:	mg/kg	

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
99-35-4	1,3,5-Trinitrobenzene	0.13	U	0.13	0.40	0.44	0.44
99-65-0	1,3-Dinitrobenzene	0.080	U	0.080	0.40	0.44	0.44
118-96-7	2,4,6-Trinitrotoluene	0.091	U	0.091	0.40	0.44	0.44
121-14-2	2,4-Dinitrotoluene	0.20	U	0.20	0.40	0.44	0.66
606-20-2	2,6-Dinitrotoluene	0.070	U	0.070	0.40	0.50	0.50
35572-78-2	2-Amino-4,6-dinitrotoluene	0.050	U	0.050	0.40	0.44	0.44
88-72-2	2-Nitrotoluene	0.091	U	0.091	0.40	0.44	0.44
618-87-1	3,5-Dinitroaniline	0.091	U	0.091	0.40	0.44	0.44
99-08-1	3-Nitrotoluene	0.070	U	0.070	0.40	0.44	0.44
19406-51-0	4-Amino-2,6-dinitrotoluene	0.070	U	0.070	0.40	0.44	0.44
99-99-0	4-Nitrotoluene	0.070	U	0.070	0.44	0.50	0.50
2691-41-0	HMX	0.12	U	0.12	0.40	0.44	0.44
98-95-3	Nitrobenzene	0.040	U	0.040	0.40	0.44	0.44
55-63-0	Nitroglycerin	0.50	U	0.50	1.2	1.5	1.8
78-11-5	PETN	0.50	U	0.50	1.2	1.5	1.8
121-82-4	RDX	0.16	U	0.16	0.40	0.44	0.52
479-45-8	Tetryl	0.091	U	0.091	0.40	0.44	0.44

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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

DLASS-042-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix:	SOIL	SDG No.:	82458
Sample wt/vol:	10.05 (g/L)	CTL Sample ID:	871197
% Solids:	99.0	Date Received:	11/12/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	11/22/2010 / 10:00
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35517
Analytical Run #:	72179	Dilution Factor:	1.00
Date & Time Analyzed:	12/02/2010 / 21:46	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
120-82-1	1,2,4-Trichlorobenzene	21	U	21	100	400	400
95-50-1	1,2-Dichlorobenzene	24	U	24	100	400	400
541-73-1	1,3-Dichlorobenzene	20	U	20	100	400	400
106-46-7	1,4-Dichlorobenzene	19	U	19	100	400	400
90-12-0	1-Methylnaphthalene	40	J	25	100	400	400
95-95-4	2,4,5-Trichlorophenol	130	U	130	400	500	500
88-06-2	2,4,6-Trichlorophenol	130	U	130	400	500	500
120-83-2	2,4-Dichlorophenol	120	U	120	400	500	500
105-67-9	2,4-Dimethylphenol	100	U	100	100	400	400
51-28-5	2,4-Dinitrophenol	690	U	690	1000	2000	2300
121-14-2	2,4-Dinitrotoluene	24	U	24	100	400	400
87-65-0	2,6-Dichlorophenol	140	U	140	400	500	500
606-20-2	2,6-Dinitrotoluene	24	U	24	100	400	400
91-58-7	2-Chloronaphthalene	23	U	23	100	400	400
95-57-8	2-Chlorophenol	340	U	340	400	500	1100
91-57-6	2-Methylnaphthalene	55	J	25	100	400	400
95-48-7	2-Methylphenol	420	U	420	500	1000	1400
88-74-4	2-Nitroaniline	23	U	23	100	400	400
88-75-5	2-Nitrophenol	280	U	280	400	500	940
1319-77-3	3 & 4-Methylphenol	650	U	650	1000	2000	2200
91-94-1	3,3'-Dichlorobenzidine	150	U	150	400	500	500
99-09-2	3-Nitroaniline	22	U	22	400	1000	1000
534-52-1	4,6-Dinitro-2-methylphenol	270	U	270	400	1000	1000
101-55-3	4-Bromophenyl-phenyl ether	25	U	25	100	400	400

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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description: **DLASS-042-0001-SO**

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix:	SOIL	SDG No.:	82458
Sample wt/vol:	10.05 (g/L)	CTL Sample ID:	871197
% Solids:	99.0	Date Received:	11/12/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	11/22/2010 / 10:00
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35517
Analytical Run #:	72179	Dilution Factor:	1.00
Date & Time Analyzed:	12/02/2010 / 21:46	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
59-50-7	4-Chloro-3-methylphenol	380	U	380	400	500	1300
106-47-8	4-Chloroaniline	39	U	39	100	400	400
7005-72-3	4-Chlorophenyl-phenyl ether	26	U	26	100	400	400
100-01-6	4-Nitroaniline	30	U	30	400	1000	1000
100-02-7	4-Nitrophenol	400	U	400	400	1000	1300
83-32-9	Acenaphthene	24	U	24	100	400	400
208-96-8	Acenaphthylene	24	U	24	100	400	400
98-86-2	Acetophenone	75	U	75	100	400	400
62-53-3	Aniline	31	U	31	100	400	400
120-12-7	Anthracene	24	U	24	100	400	400
103-33-3/122-66-7	Azobenzene & 1,2-Diphenylhydra	55	U	55	200	800	800
92-87-5	Benzidine	950	U Q	950	1000	2000	3200
56-55-3	Benzo(a)anthracene	49	J	25	100	400	400
50-32-8	Benzo(a)pyrene	42	J	23	100	400	400
205-99-2	Benzo(b)fluoranthene	76	J	25	100	400	400
191-24-2	Benzo(g,h,i)perylene	33	J	22	100	400	400
207-08-9	Benzo(k)fluoranthene	25	U	25	100	400	400
65-85-0	Benzoic acid	320	J	290	500	2000	2000
100-51-6	Benzyl alcohol	83	U	83	500	1000	1000
111-91-1	Bis(2-chloroethoxy)methane	23	U	23	100	400	400
111-44-4	Bis(2-chloroethyl)ether	25	U	25	100	400	400
108-60-1	Bis(2-chloroisopropyl)ether	30	U	30	100	400	400
117-81-7	Bis(2-ethylhexyl)phthalate	250	J	87	100	1000	1000
85-68-7	Butylbenzylphthalate	73	U	73	100	400	400

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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

DLASS-042-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix:	SOIL	SDG No.:	82458
Sample wt/vol:	10.05 (g/L)	CTL Sample ID:	871197
% Solids:	99.0	Date Received:	11/12/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	11/22/2010 / 10:00
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35517
Analytical Run #:	72179	Dilution Factor:	1.00
Date & Time Analyzed:	12/02/2010 / 21:46	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
86-74-8	Carbazole	28	U	28	100	400	400
218-01-9	Chrysene	56	J	25	100	400	400
53-70-3	Dibenzo(a,h)anthracene	22	U	22	100	400	400
132-64-9	Dibenzofuran	24	U	24	100	400	400
84-66-2	Diethylphthalate	64	U	64	100	400	400
131-11-3	Dimethylphthalate	63	U	63	100	400	400
84-74-2	Di-n-butylphthalate	140	J	79	100	400	400
117-84-0	Di-n-octylphthalate	59	U	59	100	400	400
206-44-0	Fluoranthene	99	J	26	100	400	400
86-73-7	Fluorene	25	U	25	100	400	400
118-74-1	Hexachlorobenzene	28	U	28	100	400	400
87-68-3	Hexachlorobutadiene	62	U	62	100	400	400
77-47-4	Hexachlorocyclopentadiene	52	U	52	100	400	400
67-72-1	Hexachloroethane	33	U	33	100	400	400
193-39-5	Indeno(1,2,3-cd)pyrene	30	J	23	100	400	400
78-59-1	Isophorone	50	U	50	100	400	400
91-20-3	Naphthalene	40	J	21	100	400	400
98-95-3	Nitrobenzene	59	U	59	100	400	400
62-75-9	N-Nitrosodimethylamine	78	U	78	100	400	400
621-64-7	N-Nitroso-di-n-propylamine	70	U	70	100	400	400
86-30-6/122-39-4	N-Nitrosodiphenylamine & Diphn	50	U	50	200	800	800
930-55-2	N-Nitrosopyrrolidine	56	U	56	100	400	400
87-86-5	Pentachlorophenol	240	U	240	400	1000	1000
85-01-8	Phenanthrene	58	J	26	100	400	400

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1B

SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

DLASS-042-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix:	SOIL	SDG No.:	82458
Sample wt/vol:	10.05 (g/L)	CTL Sample ID:	871197
% Solids:	99.0	Date Received:	11/12/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	11/22/2010 / 10:00
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35517
Analytical Run #:	72179	Dilution Factor:	1.00
Date & Time Analyzed:	12/02/2010 / 21:46	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
	Concentration Units:	ug/kg	

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
108-95-2	Phenol	160	U	160	400	500	530
129-00-0	Pyrene	80	J	26	100	400	400
110-86-1	Pyridine	39	U Q	39	100	400	400

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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

DLASS-042-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix:	SOIL	SDG No.:	82458
Sample wt/vol:	4.97 (g/L)	CTL Sample ID:	871197
% Solids:	99.0	Date Received:	11/12/2010
Conc. Extract Vol:	10.0 (mL)	Date/Time Prepared:	12/02/2010 / 12:00
Analytical Method:	EPA 8330	Analytical Prep Batch #	35573
Analytical Run #:	72412	Dilution Factor:	1.00
Date & Time Analyzed:	12/17/2010 / 00:29	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
	Concentration Units:	mg/kg	

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
556-88-7	Nitroguanidine	0.064	J P	0.060	0.12	0.16	0.21

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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

DLASS-042-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix:	SOIL	SDG No.:	82458
Sample wt/vol:	10.00 (g/L)	CTL Sample ID:	871197
% Solids:	99.0	Date Received:	11/12/2010
Conc. Extract Vol:	20.0 (mL)	Date/Time Prepared:	12/02/2010 / 13:30
Analytical Method:	EPA 8330B	Analytical Prep Batch #	35571
Analytical Run #:	72413	Dilution Factor:	1.00
Date & Time Analyzed:	12/14/2010 / 14:13	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: mg/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
99-35-4	1,3,5-Trinitrobenzene	0.13	U	0.13	0.40	0.44	0.44
99-65-0	1,3-Dinitrobenzene	0.080	U	0.080	0.40	0.44	0.44
118-96-7	2,4,6-Trinitrotoluene	0.090	U	0.090	0.40	0.44	0.44
121-14-2	2,4-Dinitrotoluene	0.20	U	0.20	0.40	0.44	0.66
606-20-2	2,6-Dinitrotoluene	0.070	U	0.070	0.40	0.50	0.50
35572-78-2	2-Amino-4,6-dinitrotoluene	0.050	U	0.050	0.40	0.44	0.44
88-72-2	2-Nitrotoluene	0.090	U	0.090	0.40	0.44	0.44
618-87-1	3,5-Dinitroaniline	0.090	U	0.090	0.40	0.44	0.44
99-08-1	3-Nitrotoluene	0.070	U	0.070	0.40	0.44	0.44
19406-51-0	4-Amino-2,6-dinitrotoluene	0.070	U	0.070	0.40	0.44	0.44
99-99-0	4-Nitrotoluene	0.070	U	0.070	0.44	0.50	0.50
2691-41-0	HMX	0.12	U	0.12	0.40	0.44	0.44
98-95-3	Nitrobenzene	0.040	U	0.040	0.40	0.44	0.44
55-63-0	Nitroglycerin	0.50	U	0.50	1.2	1.5	1.8
78-11-5	PETN	0.50	U	0.50	1.2	1.5	1.8
121-82-4	RDX	0.16	U	0.16	0.40	0.44	0.52
479-45-8	Tetryl	0.090	U	0.090	0.40	0.44	0.44

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1B

SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

DLASS-032-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix:	SOIL	SDG No.:	82458
Sample wt/vol:	9.98 (g/L)	CTL Sample ID:	871198
% Solids:	98.2	Date Received:	11/12/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	11/22/2010 / 10:00
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35517
Analytical Run #:	72179	Dilution Factor:	1.00
Date & Time Analyzed:	12/02/2010 / 22:06	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
120-82-1	1,2,4-Trichlorobenzene	21	U	21	100	410	410
95-50-1	1,2-Dichlorobenzene	24	U	24	100	410	410
541-73-1	1,3-Dichlorobenzene	20	U	20	100	410	410
106-46-7	1,4-Dichlorobenzene	19	U	19	100	410	410
90-12-0	1-Methylnaphthalene	400	J	26	100	410	410
95-95-4	2,4,5-Trichlorophenol	130	U	130	410	510	510
88-06-2	2,4,6-Trichlorophenol	130	U	130	410	510	510
120-83-2	2,4-Dichlorophenol	120	U	120	410	510	510
105-67-9	2,4-Dimethylphenol	100	U	100	100	410	410
51-28-5	2,4-Dinitrophenol	700	U	700	1000	2000	2300
121-14-2	2,4-Dinitrotoluene	24	U	24	100	410	410
87-65-0	2,6-Dichlorophenol	140	U	140	410	510	510
606-20-2	2,6-Dinitrotoluene	24	U	24	100	410	410
91-58-7	2-Chloronaphthalene	23	U	23	100	410	410
95-57-8	2-Chlorophenol	350	U	350	410	510	1100
91-57-6	2-Methylnaphthalene	510		26	100	410	410
95-48-7	2-Methylphenol	430	U	430	510	1000	1400
88-74-4	2-Nitroaniline	23	U	23	100	410	410
88-75-5	2-Nitrophenol	290	U	290	410	510	960
1319-77-3	3 & 4-Methylphenol	660	U	660	1000	2000	2200
91-94-1	3,3'-Dichlorobenzidine	150	U	150	410	510	510
99-09-2	3-Nitroaniline	22	U	22	410	1000	1000
534-52-1	4,6-Dinitro-2-methylphenol	280	U	280	410	1000	1000
101-55-3	4-Bromophenyl-phenyl ether	26	U	26	100	410	410

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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description: **DLASS-032-0001-SO**

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix:	SOIL	SDG No.:	82458
Sample wt/vol:	9.98 (g/L)	CTL Sample ID:	871198
% Solids:	98.2	Date Received:	11/12/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	11/22/2010 / 10:00
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35517
Analytical Run #:	72179	Dilution Factor:	1.00
Date & Time Analyzed:	12/02/2010 / 22:06	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
59-50-7	4-Chloro-3-methylphenol	390	U	390	410	510	1300
106-47-8	4-Chloroaniline	40	U	40	100	410	410
7005-72-3	4-Chlorophenyl-phenyl ether	27	U	27	100	410	410
100-01-6	4-Nitroaniline	31	U	31	410	1000	1000
100-02-7	4-Nitrophenol	410	U	410	410	1000	1300
83-32-9	Acenaphthene	24	U	24	100	410	410
208-96-8	Acenaphthylene	24	U	24	100	410	410
98-86-2	Acetophenone	77	U	77	100	410	410
62-53-3	Aniline	32	U	32	100	410	410
120-12-7	Anthracene	24	U	24	100	410	410
103-33-3/122-66-7	Azobenzene & 1,2-Diphenylhydra	56	U	56	200	820	820
92-87-5	Benzidine	970	U Q	970	1000	2000	3300
56-55-3	Benzo(a)anthracene	78	J	26	100	410	410
50-32-8	Benzo(a)pyrene	74	J	23	100	410	410
205-99-2	Benzo(b)fluoranthene	140	J	26	100	410	410
191-24-2	Benzo(g,h,i)perylene	81	J	22	100	410	410
207-08-9	Benzo(k)fluoranthene	38	J	26	100	410	410
65-85-0	Benzoic acid	300	U	300	510	2000	2000
100-51-6	Benzyl alcohol	85	U	85	510	1000	1000
111-91-1	Bis(2-chloroethoxy)methane	23	U	23	100	410	410
111-44-4	Bis(2-chloroethyl)ether	26	U	26	100	410	410
108-60-1	Bis(2-chloroisopropyl)ether	31	U	31	100	410	410
117-81-7	Bis(2-ethylhexyl)phthalate	680	J	89	100	1000	1000
85-68-7	Butylbenzylphthalate	74	U	74	100	410	410

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1B

SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

DLASS-032-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix:	SOIL	SDG No.:	82458
Sample wt/vol:	9.98 (g/L)	CTL Sample ID:	871198
% Solids:	98.2	Date Received:	11/12/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	11/22/2010 / 10:00
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35517
Analytical Run #:	72179	Dilution Factor:	1.00
Date & Time Analyzed:	12/02/2010 / 22:06	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
86-74-8	Carbazole	29	U	29	100	410	410
218-01-9	Chrysene	110	J	26	100	410	410
53-70-3	Dibenzo(a,h)anthracene	22	U	22	100	410	410
132-64-9	Dibenzofuran	89	J	24	100	410	410
84-66-2	Diethylphthalate	65	U	65	100	410	410
131-11-3	Dimethylphthalate	64	U	64	100	410	410
84-74-2	Di-n-butylphthalate	150	J	81	100	410	410
117-84-0	Di-n-octylphthalate	60	U	60	100	410	410
206-44-0	Fluoranthene	160	J	27	100	410	410
86-73-7	Fluorene	26	U	26	100	410	410
118-74-1	Hexachlorobenzene	29	U	29	100	410	410
87-68-3	Hexachlorobutadiene	63	U	63	100	410	410
77-47-4	Hexachlorocyclopentadiene	53	U	53	100	410	410
67-72-1	Hexachloroethane	34	U	34	100	410	410
193-39-5	Indeno(1,2,3-cd)pyrene	43	J	23	100	410	410
78-59-1	Isophorone	51	U	51	100	410	410
91-20-3	Naphthalene	270	J	21	100	410	410
98-95-3	Nitrobenzene	60	U	60	100	410	410
62-75-9	N-Nitrosodimethylamine	80	U	80	100	410	410
621-64-7	N-Nitroso-di-n-propylamine	71	U	71	100	410	410
86-30-6/122-39-4	N-Nitrosodiphenylamine & Diphn	51	U	51	200	820	820
930-55-2	N-Nitrosopyrrolidine	57	U	57	100	410	410
87-86-5	Pentachlorophenol	240	U	240	410	1000	1000
85-01-8	Phenanthrene	330	J	27	100	410	410

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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

DLASS-032-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix:	SOIL	SDG No.:	82458
Sample wt/vol:	9.98 (g/L)	CTL Sample ID:	871198
% Solids:	98.2	Date Received:	11/12/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	11/22/2010 / 10:00
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35517
Analytical Run #:	72179	Dilution Factor:	1.00
Date & Time Analyzed:	12/02/2010 / 22:06	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
	Concentration Units:	ug/kg	

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
108-95-2	Phenol	160	U	160	410	510	540
129-00-0	Pyrene	170	J	27	100	410	410
110-86-1	Pyridine	40	U Q	40	100	410	410

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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

DLASS-032-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix:	SOIL	SDG No.:	82458
Sample wt/vol:	4.94 (g/L)	CTL Sample ID:	871198
% Solids:	98.2	Date Received:	11/12/2010
Conc. Extract Vol:	10.0 (mL)	Date/Time Prepared:	12/02/2010 / 12:00
Analytical Method:	EPA 8330	Analytical Prep Batch #	35573
Analytical Run #:	72412	Dilution Factor:	1.00
Date & Time Analyzed:	12/17/2010 / 00:43	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
	Concentration Units:	mg/kg	

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
556-88-7	Nitroguanidine	0.89		0.061	0.12	0.16	0.21

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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

DLASS-032-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix:	SOIL	SDG No.:	82458
Sample wt/vol:	9.94 (g/L)	CTL Sample ID:	871198
% Solids:	98.2	Date Received:	11/12/2010
Conc. Extract Vol:	20.0 (mL)	Date/Time Prepared:	12/02/2010 / 13:30
Analytical Method:	EPA 8330B	Analytical Prep Batch #	35571
Analytical Run #:	72413	Dilution Factor:	1.00
Date & Time Analyzed:	12/14/2010 / 14:36	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: mg/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
99-35-4	1,3,5-Trinitrobenzene	0.13	U	0.13	0.40	0.44	0.44
99-65-0	1,3-Dinitrobenzene	0.080	U	0.080	0.40	0.44	0.44
118-96-7	2,4,6-Trinitrotoluene	0.091	U	0.091	0.40	0.44	0.44
121-14-2	2,4-Dinitrotoluene	0.20	U	0.20	0.40	0.44	0.66
606-20-2	2,6-Dinitrotoluene	0.070	U	0.070	0.40	0.50	0.50
35572-78-2	2-Amino-4,6-dinitrotoluene	0.050	U	0.050	0.40	0.44	0.44
88-72-2	2-Nitrotoluene	0.091	U	0.091	0.40	0.44	0.44
618-87-1	3,5-Dinitroaniline	0.091	U	0.091	0.40	0.44	0.44
99-08-1	3-Nitrotoluene	0.070	U	0.070	0.40	0.44	0.44
19406-51-0	4-Amino-2,6-dinitrotoluene	0.070	U	0.070	0.40	0.44	0.44
99-99-0	4-Nitrotoluene	0.070	U	0.070	0.44	0.50	0.50
2691-41-0	HMX	0.12	U	0.12	0.40	0.44	0.44
98-95-3	Nitrobenzene	0.040	U	0.040	0.40	0.44	0.44
55-63-0	Nitroglycerin	0.50	U	0.50	1.2	1.5	1.8
78-11-5	PETN	0.50	U	0.50	1.2	1.5	1.8
121-82-4	RDX	0.16	U	0.16	0.40	0.44	0.52
479-45-8	Tetryl	0.091	U	0.091	0.40	0.44	0.44

CT Laboratories

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SEMIVOLATILE ORGANICS ANALYSIS (MB)

Sample Description: **METHOD BLANK**

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix:		SDG No.:	82458
Sample wt/vol:	10.00 (g/L)	CTL Sample ID:	874148
% Solids:		Date Received:	11/12/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	11/22/2010 / 10:00
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35517
Analytical Run #:	72179	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
	Concentration Units:	ug/kg	

CAS NO.	Analyte	Analysis Date/Time	Concentration	Qualifiers	DL/LOD	Control Limit	RL
120-82-1	1,2,4-Trichlorobenzene	12/02/2010 19:05	200	U	200	200	
95-50-1	1,2-Dichlorobenzene	12/02/2010 19:05	200	U	200	200	
541-73-1	1,3-Dichlorobenzene	12/02/2010 19:05	200	U	200	200	
106-46-7	1,4-Dichlorobenzene	12/02/2010 19:05	200	U	200	200	
90-12-0	1-Methylnaphthalene	12/02/2010 19:05	200	U	200	200	
95-95-4	2,4,5-Trichlorophenol	12/02/2010 19:05	250	U	250	250	
88-06-2	2,4,6-Trichlorophenol	12/02/2010 19:05	250	U	250	250	
120-83-2	2,4-Dichlorophenol	12/02/2010 19:05	250	U	250	250	
105-67-9	2,4-Dimethylphenol	12/02/2010 19:05	200	U	200	200	
51-28-5	2,4-Dinitrophenol	12/02/2010 19:05	1000	U	1000	1000	
121-14-2	2,4-Dinitrotoluene	12/02/2010 19:05	200	U	200	200	
87-65-0	2,6-Dichlorophenol	12/02/2010 19:05	250	U	250	250	
606-20-2	2,6-Dinitrotoluene	12/02/2010 19:05	200	U	200	200	
91-58-7	2-Chloronaphthalene	12/02/2010 19:05	200	U	200	200	
95-57-8	2-Chlorophenol	12/02/2010 19:05	250	U	250	250	
91-57-6	2-Methylnaphthalene	12/02/2010 19:05	200	U	200	200	
95-48-7	2-Methylphenol	12/02/2010 19:05	500	U	500	500	
88-74-4	2-Nitroaniline	12/02/2010 19:05	200	U	200	200	
88-75-5	2-Nitrophenol	12/02/2010 19:05	250	U	250	250	
1319-77-3	3 & 4-Methylphenol	12/02/2010 19:05	1000	U	1000	1000	
91-94-1	3,3'-Dichlorobenzidine	12/02/2010 19:05	250	U	250	250	
99-09-2	3-Nitroaniline	12/02/2010 19:05	500	U	500	500	
534-52-1	4,6-Dinitro-2-methylphenol	12/02/2010 19:05	500	U	500	500	

CT Laboratories

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SEMIVOLATILE ORGANICS ANALYSIS (MB)

Sample Description

METHOD BLANK

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix:		SDG No.:	82458
Sample wt/vol:	10.00 (g/L)	CTL Sample ID:	874148
% Solids:		Date Received:	11/12/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	11/22/2010 / 10:00
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35517
Analytical Run #:	72179	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
	Concentration Units:	ug/kg	

CAS NO.	Analyte	Analysis Date/Time	Concentration	Qualifiers	DL/LOD	Control Limit	RL
101-55-3	4-Bromophenyl-phenyl ether	12/02/2010 19:05	200	U	200	200	
59-50-7	4-Chloro-3-methylphenol	12/02/2010 19:05	250	U	250	250	
106-47-8	4-Chloroaniline	12/02/2010 19:05	200	U	200	200	
7005-72-3	4-Chlorophenyl-phenyl ether	12/02/2010 19:05	200	U	200	200	
100-01-6	4-Nitroaniline	12/02/2010 19:05	200	U	200	200	
100-02-7	4-Nitrophenol	12/02/2010 19:05	500	U	500	500	
83-32-9	Acenaphthene	12/02/2010 19:05	200	U	200	200	
208-96-8	Acenaphthylene	12/02/2010 19:05	200	U	200	200	
98-86-2	Acetophenone	12/02/2010 19:05	200	U	200	200	
62-53-3	Aniline	12/02/2010 19:05	200	U	200	200	
120-12-7	Anthracene	12/02/2010 19:05	200	U	200	200	
103-33-3/122-66-7	Azobenzene & 1,2-Diphenylhydra	12/02/2010 19:05	400	U	400	400	
92-87-5	Benzidine	12/02/2010 19:05	1000	U	1000	1000	
56-55-3	Benzo(a)anthracene	12/02/2010 19:05	200	U	200	200	
50-32-8	Benzo(a)pyrene	12/02/2010 19:05	200	U	200	200	
205-99-2	Benzo(b)fluoranthene	12/02/2010 19:05	200	U	200	200	
191-24-2	Benzo(g,h,i)perylene	12/02/2010 19:05	200	U	200	200	
207-08-9	Benzo(k)fluoranthene	12/02/2010 19:05	200	U	200	200	
65-85-0	Benzoic acid	12/02/2010 19:05	291	U	291	291	
100-51-6	Benzyl alcohol	12/02/2010 19:05	500	U	500	500	
111-91-1	Bis(2-chloroethoxy)methane	12/02/2010 19:05	200	U	200	200	
111-44-4	Bis(2-chloroethyl)ether	12/02/2010 19:05	200	U	200	200	
108-60-1	Bis(2-chloroisopropyl)ether	12/02/2010 19:05	200	U	200	200	

CT Laboratories

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SEMIVOLATILE ORGANICS ANALYSIS (MB)

Sample Description

METHOD BLANK

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix:		SDG No.:	82458
Sample wt/vol:	10.00 (g/L)	CTL Sample ID:	874148
% Solids:		Date Received:	11/12/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	11/22/2010 / 10:00
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35517
Analytical Run #:	72179	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
		Concentration Units:	ug/kg

CAS NO.	Analyte	Analysis Date/Time	Concentration	Qualifiers	DL/LOD	Control Limit	RL
117-81-7	Bis(2-ethylhexyl)phthalate	12/02/2010 19:05	500	U	500	500	
85-68-7	Butylbenzylphthalate	12/02/2010 19:05	200	U	200	200	
86-74-8	Carbazole	12/02/2010 19:05	200	U	200	200	
218-01-9	Chrysene	12/02/2010 19:05	200	U	200	200	
53-70-3	Dibenzo(a,h)anthracene	12/02/2010 19:05	200	U	200	200	
132-64-9	Dibenzofuran	12/02/2010 19:05	200	U	200	200	
84-66-2	Diethylphthalate	12/02/2010 19:05	200	U	200	200	
131-11-3	Dimethylphthalate	12/02/2010 19:05	200	U	200	200	
84-74-2	Di-n-butylphthalate	12/02/2010 19:05	200	U	200	200	
117-84-0	Di-n-octylphthalate	12/02/2010 19:05	200	U	200	200	
206-44-0	Fluoranthene	12/02/2010 19:05	200	U	200	200	
86-73-7	Fluorene	12/02/2010 19:05	200	U	200	200	
118-74-1	Hexachlorobenzene	12/02/2010 19:05	200	U	200	200	
87-68-3	Hexachlorobutadiene	12/02/2010 19:05	200	U	200	200	
77-47-4	Hexachlorocyclopentadiene	12/02/2010 19:05	200	U	200	200	
67-72-1	Hexachloroethane	12/02/2010 19:05	200	U	200	200	
193-39-5	Indeno(1,2,3-cd)pyrene	12/02/2010 19:05	200	U	200	200	
78-59-1	Isophorone	12/02/2010 19:05	200	U	200	200	
91-20-3	Naphthalene	12/02/2010 19:05	200	U	200	200	
98-95-3	Nitrobenzene	12/02/2010 19:05	200	U	200	200	
62-75-9	N-Nitrosodimethylamine	12/02/2010 19:05	200	U	200	200	
621-64-7	N-Nitroso-di-n-propylamine	12/02/2010 19:05	200	U	200	200	
86-30-6/122-39-4	N-Nitrosodiphenylamine & Diphn	12/02/2010 19:05	400	U	400	400	

CT Laboratories

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SEMIVOLATILE ORGANICS ANALYSIS (MB)

Sample Description

METHOD BLANK

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix:		SDG No.:	82458
Sample wt/vol:	10.00 (g/L)	CTL Sample ID:	874148
% Solids:		Date Received:	11/12/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	11/22/2010 / 10:00
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35517
Analytical Run #:	72179	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: ug/kg

CAS NO.	Analyte	Analysis Date/Time	Concentration	Qualifiers	DL/LOD	Control Limit	RL
930-55-2	N-Nitrosopyrrolidine	12/02/2010 19:05	200	U	200	200	
87-86-5	Pentachlorophenol	12/02/2010 19:05	500	U	500	500	
85-01-8	Phenanthrene	12/02/2010 19:05	200	U	200	200	
108-95-2	Phenol	12/02/2010 19:05	250	U	250	250	
129-00-0	Pyrene	12/02/2010 19:05	200	U	200	200	
110-86-1	Pyridine	12/02/2010 19:05	200	U	200	200	

CT Laboratories

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SEMIVOLATILE ORGANICS ANALYSIS (MB)

Sample Description

METHOD BLANK

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix:		SDG No.:	82458
Sample wt/vol:	9.90 (g/L)	CTL Sample ID:	875951
% Solids:		Date Received:	11/12/2010
Conc. Extract Vol:	20.0 (mL)	Date/Time Prepared:	12/02/2010 / 13:30
Analytical Method:	EPA 8330B	Analytical Prep Batch #	35571
Analytical Run #:	72413	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: mg/kg

CAS NO.	Analyte	Analysis Date/Time	Concentration	Qualifiers	DL/LOD	Control Limit	RL
99-35-4	1,3,5-Trinitrobenzene	12/14/2010 09:58	0.22	U	0.22	0.22	
99-65-0	1,3-Dinitrobenzene	12/14/2010 09:58	0.22	U	0.22	0.22	
118-96-7	2,4,6-Trinitrotoluene	12/14/2010 09:58	0.22	U	0.22	0.22	
121-14-2	2,4-Dinitrotoluene	12/14/2010 09:58	0.22	U	0.22	0.22	
606-20-2	2,6-Dinitrotoluene	12/14/2010 09:58	0.25	U	0.25	0.25	
35572-78-2	2-Amino-4,6-dinitrotoluene	12/14/2010 09:58	0.22	U	0.22	0.22	
88-72-2	2-Nitrotoluene	12/14/2010 09:58	0.22	U	0.22	0.22	
618-87-1	3,5-Dinitroaniline	12/14/2010 09:58	0.22	U	0.22	0.22	
99-08-1	3-Nitrotoluene	12/14/2010 09:58	0.22	U	0.22	0.22	
19406-51-0	4-Amino-2,6-dinitrotoluene	12/14/2010 09:58	0.22	U	0.22	0.22	
99-99-0	4-Nitrotoluene	12/14/2010 09:58	0.25	U	0.25	0.25	
2691-41-0	HMX	12/14/2010 09:58	0.22	U	0.22	0.22	
98-95-3	Nitrobenzene	12/14/2010 09:58	0.22	U	0.22	0.22	
55-63-0	Nitroglycerin	12/14/2010 09:58	0.75	U	0.75	0.75	
78-11-5	PETN	12/14/2010 09:58	0.75	U	0.75	0.75	
121-82-4	RDX	12/14/2010 09:58	0.22	U	0.22	0.22	
479-45-8	Tetryl	12/14/2010 09:58	0.22	U	0.22	0.22	

CT Laboratories

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SEMIVOLATILE ORGANICS ANALYSIS (MB)

Sample Description

METHOD BLANK

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix:		SDG No.:	82458
Sample wt/vol:	5.20 (g/L)	CTL Sample ID:	875959
% Solids:		Date Received:	11/12/2010
Conc. Extract Vol:	10.0 (mL)	Date/Time Prepared:	12/02/2010 / 12:00
Analytical Method:	EPA 8330	Analytical Prep Batch #	35573
Analytical Run #:	72412	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
	Concentration Units:	mg/kg	

CAS NO.	Analyte	Analysis Date/Time	Concentration	Qualifiers	DL/LOD	Control Limit	RL
556-88-7	Nitroguanidine	12/16/2010 21:52	0.08	U	0.08	0.08	

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SOIL SEMI VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Analytical Method:	EPA 8270C	SDG:	82458
Analytical Run #:	72179		

CTLab #	870201				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: 2,4,6-Tribromophenol	100	86	35	125	
Surr: 2-Fluorobiphenyl	100	78	45	105	
Surr: 2-Fluorophenol	100	78	35	105	
Surr: Nitrobenzene-d5	100	76	35	100	
Surr: Phenol-d5	100	81	40	100	
Surr: Terphenyl-d14	100	81	30	125	

CTLab #	870203				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: 2,4,6-Tribromophenol	100	84	35	125	
Surr: 2-Fluorobiphenyl	100	77	45	105	
Surr: 2-Fluorophenol	100	76	35	105	
Surr: Nitrobenzene-d5	100	76	35	100	
Surr: Phenol-d5	100	81	40	100	
Surr: Terphenyl-d14	100	81	30	125	

CTLab #	871184				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: 2,4,6-Tribromophenol	100	74	35	125	
Surr: 2-Fluorobiphenyl	100	82	45	105	
Surr: 2-Fluorophenol	100	78	35	105	
Surr: Nitrobenzene-d5	100	79	35	100	
Surr: Phenol-d5	100	83	40	100	
Surr: Terphenyl-d14	100	89	30	125	

CTLab #	871186				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: 2,4,6-Tribromophenol	100	78	35	125	
Surr: 2-Fluorobiphenyl	100	77	45	105	
Surr: 2-Fluorophenol	100	76	35	105	
Surr: Nitrobenzene-d5	100	76	35	100	
Surr: Phenol-d5	100	82	40	100	
Surr: Terphenyl-d14	100	84	30	125	

CTLab #	871197				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: 2,4,6-Tribromophenol	100	79	35	125	
Surr: 2-Fluorobiphenyl	100	79	45	105	
Surr: 2-Fluorophenol	100	76	35	105	
Surr: Nitrobenzene-d5	100	77	35	100	
Surr: Phenol-d5	100	81	40	100	
Surr: Terphenyl-d14	100	87	30	125	

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SOIL SEMI VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: CT Laboratories | Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

Analytical Method: EPA 8270C | SDG: 82458

Analytical Run #: 72179

CTLab #	871198				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: 2,4,6-Tribromophenol	100	69	35	125	
Surr: 2-Fluorobiphenyl	100	72	45	105	
Surr: 2-Fluorophenol	100	69	35	105	
Surr: Nitrobenzene-d5	100	69	35	100	
Surr: Phenol-d5	100	73	40	100	
Surr: Terphenyl-d14	100	74	30	125	
CTLab #	**874146**	Sample Type:		Matrix Spike	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: 2,4,6-Tribromophenol	100	99.5	35	125	
Surr: 2-Fluorobiphenyl	100	87.1	45	105	
Surr: 2-Fluorophenol	100	84.0	35	105	
Surr: Nitrobenzene-d5	100	86.2	35	100	
Surr: Phenol-d5	100	87.5	40	100	
Surr: Terphenyl-d14	100	90.1	30	125	
CTLab #	**874147**	Sample Type:		Matrix Spike Duplicate	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: 2,4,6-Tribromophenol	100	99.7	35	125	
Surr: 2-Fluorobiphenyl	100	87.3	45	105	
Surr: 2-Fluorophenol	100	84.6	35	105	
Surr: Nitrobenzene-d5	100	87.4	35	100	
Surr: Phenol-d5	100	85.6	40	100	
Surr: Terphenyl-d14	100	90.0	30	125	
CTLab #	**874148**	Sample Type:		Method Blank	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: 2,4,6-Tribromophenol	100	76.1	35	125	
Surr: 2-Fluorobiphenyl	100	87.2	45	105	
Surr: 2-Fluorophenol	100	77.4	35	105	
Surr: Nitrobenzene-d5	100	81.5	35	100	
Surr: Phenol-d5	100	84.3	40	100	
Surr: Terphenyl-d14	100	89.2	30	125	
CTLab #	**874149**	Sample Type:		Lab Control Spike	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: 2,4,6-Tribromophenol	100	91.9	35	125	
Surr: 2-Fluorobiphenyl	100	86.6	45	105	
Surr: 2-Fluorophenol	100	78.2	35	105	
Surr: Nitrobenzene-d5	100	83.4	35	100	
Surr: Phenol-d5	100	84.9	40	100	
Surr: Terphenyl-d14	100	88.1	30	125	

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SOIL SEMI VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

Analytical Method: EPA 8330 SDG: 82458

Analytical Run #: 72412

CTLab #	870201				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	97	50	150	
CTLab #	**870203**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	92	50	150	
CTLab #	**871184**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	130	50	150	
CTLab #	**871186**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	86	50	150	
CTLab #	**871197**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	89	50	150	
CTLab #	**871198**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	89	50	150	
CTLab #	**875959**	Sample Type:		Method Blank	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	98.3	50	150	
CTLab #	**875960**	Sample Type:		Lab Control Spike	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	90.4	50	150	
CTLab #	**875962**	Sample Type:		Matrix Spike	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	93.8	50	150	
CTLab #	**875963**	Sample Type:		Matrix Spike Duplicate	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	92.2	50	150	

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SOIL SEMI VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: CT Laboratories | Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

Analytical Method: EPA 8330B | SDG: 82458

Analytical Run #: 72413

CTLab #	870201				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	110	75	127	

CTLab #	870203				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	142	75	127	*FAIL*

CTLab #	871184				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	140	75	127	*FAIL*

CTLab #	871186				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	132	75	127	*FAIL*

CTLab #	871197				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	111	75	127	

CTLab #	871198				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	122	75	127	

CTLab #	875951	Sample Type:	Method Blank		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene		106	79	120	

CTLab #	875952	Sample Type:	Lab Control Spike		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	118	79	120	

CTLab #	875953	Sample Type:	Matrix Spike		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	109	75	127	

CTLab #	875954	Sample Type:	Matrix Spike Duplicate		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2-Dinitrobenzene	100	112	75	127	

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Sample Description

SOIL SEMIVOLATILE MATRIX SPIKE RECOVERY

DLASS-014-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOIL SDG No.: 82399

Analytical Method: EPA 8270C Concentration Units: ug/kg

Analytical Run #: 72179 Sample No.: 874146 Parent Sample No.: 870201

Analytical Prep Batch #: 35517 Analytical Preparation Date/Time: 11/22/2010 10:00

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R	
1,2,4-Trichlorobenzene	12/02/2010	20:06	45-110	1660	0	2070	80	
1,2-Dichlorobenzene	12/02/2010	20:06	45-95	1630	15	2070	78	
1,3-Dichlorobenzene	12/02/2010	20:06	40-100	1600	0	2070	77	
1,4-Dichlorobenzene	12/02/2010	20:06	35-105	1610	0	2070	78	
1-Methylnaphthalene	12/02/2010	20:06	50-150	1720	29	2070	82	
2,4,5-Trichlorophenol	12/02/2010	20:06	50-110	1950	0	2070	94	
2,4,6-Trichlorophenol	12/02/2010	20:06	45-110	1840	0	2070	89	
2,4-Dichlorophenol	12/02/2010	20:06	45-110	1810	0	2070	87	
2,4-Dimethylphenol	12/02/2010	20:06	30-105	1680	0	2070	81	
2,4-Dinitrophenol	12/02/2010	20:06	15-130	371	0	2070	18	
2,4-Dinitrotoluene	12/02/2010	20:06	50-115	1880	0	2070	91	
2,6-Dichlorophenol	12/02/2010	20:06	48-126	1730	0	2070	84	
2,6-Dinitrotoluene	12/02/2010	20:06	50-110	1890	0	2070	91	
2-Chloronaphthalene	12/02/2010	20:06	45-105	1750	0	2070	85	
2-Chlorophenol	12/02/2010	20:06	45-105	1710	0	2070	83	
2-Methylnaphthalene	12/02/2010	20:06	45-105	1760	35	2070	83	
2-Methylphenol	12/02/2010	20:06	40-105	1840	0	2070	89	
2-Nitroaniline	12/02/2010	20:06	45-120	1830	0	2070	88	
2-Nitrophenol	12/02/2010	20:06	40-110	1670	0	2070	81	
3 & 4-Methylphenol	12/02/2010	20:06	40-105	1890	0	2070	91	
3,3'-Dichlorobenzidine	12/02/2010	20:06	10-130	0	0	2070	0	*FAIL*
3-Nitroaniline	12/02/2010	20:06	25-110	253	0	2070	12	*FAIL*
4,6-Dinitro-2-methylphenol	12/02/2010	20:06	30-135	1320	0	2070	64	
4-Bromophenyl-phenyl ether	12/02/2010	20:06	45-115	1830	0	2070	88	
4-Chloro-3-methylphenol	12/02/2010	20:06	45-115	1850	0	2070	89	
4-Chloroaniline	12/02/2010	20:06	10-95	30.7	0	2070	1	*FAIL*
4-Chlorophenyl-phenyl ether	12/02/2010	20:06	45-110	1790	0	2070	86	
4-Nitroaniline	12/02/2010	20:06	35-115	546	0	2070	26	*FAIL*
4-Nitrophenol	12/02/2010	20:06	15-140	2010	0	2070	97	
Acenaphthene	12/02/2010	20:06	45-110	1810	16	2070	87	
Acenaphthylene	12/02/2010	20:06	45-105	1780	9.2	2070	86	
Acetophenone	12/02/2010	20:06	25-96	1700	0	2070	82	

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Sample Description

SOIL SEMIVOLATILE MATRIX SPIKE RECOVERY

DLASS-014-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOIL SDG No.: 82399

Analytical Method: EPA 8270C Concentration Units: ug/kg

Analytical Run #: 72179 Sample No.: 874146 Parent Sample No.: 870201

Analytical Prep Batch #: 35517 Analytical Preparation Date/Time: 11/22/2010 10:00

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R	
Aniline	12/02/2010	20:06	14-110	27.9	0	2070	1	*FAIL*
Anthracene	12/02/2010	20:06	55-105	1800	37	2070	85	
Azobenzene & 1,2-Diphenylhydra	12/02/2010	20:06	55-115	3500	0	4140	85	
Benzidine	12/02/2010	20:06	1-161	0	0	2070	0	*FAIL*
Benzo(a)anthracene	12/02/2010	20:06	50-110	1950	190	2070	85	
Benzo(a)pyrene	12/02/2010	20:06	50-110	1870	180	2070	82	
Benzo(b)fluoranthene	12/02/2010	20:06	45-115	1960	300	2070	80	
Benzo(g,h,i)perylene	12/02/2010	20:06	40-125	1680	120	2070	75	
Benzo(k)fluoranthene	12/02/2010	20:06	45-125	1920	130	2070	86	
Benzoic acid	12/02/2010	20:06	0-110	809	980	2070	-8	*FAIL*
Benzyl alcohol	12/02/2010	20:06	20-125	631	0	2070	30	
Bis(2-chloroethoxy)methane	12/02/2010	20:06	45-110	1690	0	2070	82	
Bis(2-chloroethyl)ether	12/02/2010	20:06	40-105	1660	0	2070	80	
Bis(2-chloroisopropyl)ether	12/02/2010	20:06	20-115	1650	0	2070	80	
Bis(2-ethylhexyl)phthalate	12/02/2010	20:06	45-125	2790	900	2070	91	
Butylbenzylphthalate	12/02/2010	20:06	50-125	1870	10	2070	90	
Carbazole	12/02/2010	20:06	45-115	1840	32	2070	87	
Chrysene	12/02/2010	20:06	55-110	1960	210	2070	85	
Dibenzo(a,h)anthracene	12/02/2010	20:06	40-125	1650	35	2070	78	
Dibenzofuran	12/02/2010	20:06	50-105	1830	20	2070	87	
Diethylphthalate	12/02/2010	20:06	50-115	1860	54	2070	87	
Dimethylphthalate	12/02/2010	20:06	50-110	1790	0	2070	86	
Di-n-butylphthalate	12/02/2010	20:06	55-110	2000	120	2070	91	
Di-n-octylphthalate	12/02/2010	20:06	40-130	1890	0	2070	91	
Fluoranthene	12/02/2010	20:06	55-115	2290	480	2070	87	
Fluorene	12/02/2010	20:06	50-110	1810	20	2070	86	
Hexachlorobenzene	12/02/2010	20:06	45-120	1750	0	2070	85	
Hexachlorobutadiene	12/02/2010	20:06	40-115	1640	0	2070	79	
Hexachlorocyclopentadiene	12/02/2010	20:06	30-137	810	0	2070	39	
Hexachloroethane	12/02/2010	20:06	35-110	1560	0	2070	75	
Indeno(1,2,3-cd)pyrene	12/02/2010	20:06	40-120	1770	120	2070	80	
Isophorone	12/02/2010	20:06	45-110	1630	0	2070	79	

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Sample Description

SOIL SEMIVOLATILE MATRIX SPIKE RECOVERY

DLASS-014-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOIL SDG No.: 82399

Analytical Method: EPA 8270C Concentration Units: ug/kg

Analytical Run #: 72179 Sample No.: 874146 Parent Sample No.: 870201

Analytical Prep Batch #: 35517 Analytical Preparation Date/Time: 11/22/2010 10:00

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R	
Naphthalene	12/02/2010	20:06	40-105	1730	30	2070	82	
Nitrobenzene	12/02/2010	20:06	40-115	1740	0	2070	84	
N-Nitrosodimethylamine	12/02/2010	20:06	20-115	1440	0	2070	70	
N-Nitroso-di-n-propylamine	12/02/2010	20:06	40-115	1700	0	2070	82	
N-Nitrosodiphenylamine & Diphn	12/02/2010	20:06	50-115	3490	0	4140	84	
N-Nitrosopyrrolidine	12/02/2010	20:06	59-110	1650	0	2070	80	
Pentachlorophenol	12/02/2010	20:06	25-120	1520	0	2070	73	
Phenanthrene	12/02/2010	20:06	50-110	2050	250	2070	87	
Phenol	12/02/2010	20:06	40-100	1840	27	2070	88	
Pyrene	12/02/2010	20:06	45-125	2180	370	2070	87	
Pyridine	12/02/2010	20:06	16-121	0	0	2070	0	*FAIL*

Spike Recovery: 8 out of 75 outside QC limits

CT LABORATORIES
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Sample Description

SOIL SEMIVOLATILE MATRIX SPIKE RECOVERY

DLASS-014-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOIL SDG No.: 82399

Analytical Method: EPA 8330 Concentration Units: mg/kg

Analytical Run #: 72412 Sample No.: 875962 Parent Sample No.: 870201

Analytical Prep Batch #: 35573 Analytical Preparation Date/Time: 12/02/2010 12:00

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
Nitroguanidine	12/16/2010 22:35	50-150	2.13	0.30	1.93	95

Spike Recovery: 0 out of 1 outside QC limits

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Sample Description

SOIL SEMIVOLATILE MATRIX SPIKE RECOVERY

DLASS-014-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOIL SDG No.: 82399

Analytical Method: EPA 8330B Concentration Units: mg/kg

Analytical Run #: 72413 Sample No.: 875953 Parent Sample No.: 870201

Analytical Prep Batch #: 35571 Analytical Preparation Date/Time: 12/02/2010 13:30

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
1,3,5-Trinitrobenzene	12/14/2010	11:07	72-121	1.99	0	2.01	99
1,3-Dinitrobenzene	12/14/2010	11:07	74-120	2.07	0	2.01	103
2,4,6-Trinitrotoluene	12/14/2010	11:07	56-135	2.15	0	2.01	107
2,4-Dinitrotoluene	12/14/2010	11:07	64-131	2.15	0	2.01	107
2,6-Dinitrotoluene	12/14/2010	11:07	63-131	2.15	0	2.01	107
2-Amino-4,6-dinitrotoluene	12/14/2010	11:07	71-118	1.98	0	2.01	99
2-Nitrotoluene	12/14/2010	11:07	78-113	2.01	0	2.01	100
3,5-Dinitroaniline	12/14/2010	11:07	1-153	1.98	0	2.01	99
3-Nitrotoluene	12/14/2010	11:07	74-115	2.03	0	2.01	101
4-Amino-2,6-dinitrotoluene	12/14/2010	11:07	72-123	1.76	0	2.01	88
4-Nitrotoluene	12/14/2010	11:07	80-110	2.02	0	2.01	100
HMX	12/14/2010	11:07	59-133	1.84	0	2.01	92
Nitrobenzene	12/14/2010	11:07	73-120	2.09	0	2.01	104
Nitroglycerin	12/14/2010	11:07	76-130	7.96	0	8.04	99
PETN	12/14/2010	11:07	74-123	9.07	0	8.04	113
RDX	12/14/2010	11:07	55-120	1.85	0	2.01	92
Tetryl	12/14/2010	11:07	30-155	1.62	0	2.01	81

Spike Recovery: 0 out of 17 outside QC limits

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Sample Description

SOIL SEMIVOLATILE MATRIX SPIKE DUPLICATE RECOVERY

DLASS-014-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOIL SDG No.: 82399

Analytical Method: EPA 8270C Concentration Units: ug/kg

Analytical Run #: 72179 Sample No.: 874147 Parent Sample No.: 874146

Analytical Prep Batch #: 35517 Analytical Preparation Date/Time: 11/22/2010 10:00

Analyte	Analysis Date/Time		Spike Result	Spike Amount	%R	%RPD	Control Limits (%R)	Control Limits (%RPD)	
1,2,4-Trichlorobenzene	12/02/2010	20:26	1700	2070	82	3	45-110	30	
1,2-Dichlorobenzene	12/02/2010	20:26	1680	2070	80	2	45-95	30	
1,3-Dichlorobenzene	12/02/2010	20:26	1650	2070	80	3	40-100	30	
1,4-Dichlorobenzene	12/02/2010	20:26	1650	2070	80	2	35-105	30	
1-Methylnaphthalene	12/02/2010	20:26	1780	2070	85	3	50-150	30	
2,4,5-Trichlorophenol	12/02/2010	20:26	2010	2070	97	3	50-110	30	
2,4,6-Trichlorophenol	12/02/2010	20:26	1910	2070	92	4	45-110	30	
2,4-Dichlorophenol	12/02/2010	20:26	1890	2070	91	4	45-110	30	
2,4-Dimethylphenol	12/02/2010	20:26	1810	2070	87	7	30-105	30	
2,4-Dinitrophenol	12/02/2010	20:26	332	2070	16	11	15-130	30	
2,4-Dinitrotoluene	12/02/2010	20:26	1950	2070	94	3	50-115	30	
2,6-Dichlorophenol	12/02/2010	20:26	1850	2070	89	6	48-126	30	
2,6-Dinitrotoluene	12/02/2010	20:26	1900	2070	92	0	50-110	30	
2-Chloronaphthalene	12/02/2010	20:26	1810	2070	87	3	45-105	30	
2-Chlorophenol	12/02/2010	20:26	1750	2070	85	3	45-105	30	
2-Methylnaphthalene	12/02/2010	20:26	1820	2070	86	3	45-105	30	
2-Methylphenol	12/02/2010	20:26	1880	2070	91	2	40-105	30	
2-Nitroaniline	12/02/2010	20:26	1870	2070	90	2	45-120	30	
2-Nitrophenol	12/02/2010	20:26	1720	2070	83	3	40-110	30	
3 & 4-Methylphenol	12/02/2010	20:26	1940	2070	94	3	40-105	30	
3,3'-Dichlorobenzidine	12/02/2010	20:26	0	2070	0	0	10-130	30	*FAIL*
3-Nitroaniline	12/02/2010	20:26	306	2070	15	18	25-110	30	*FAIL*
4,6-Dinitro-2-methylphenol	12/02/2010	20:26	1090	2070	53	19	30-135	30	
4-Bromophenyl-phenyl ether	12/02/2010	20:26	1840	2070	89	0	45-115	30	
4-Chloro-3-methylphenol	12/02/2010	20:26	1940	2070	94	5	45-115	30	
4-Chloroaniline	12/02/2010	20:26	32.8	2070	2	6	10-95	30	*FAIL*
4-Chlorophenyl-phenyl ether	12/02/2010	20:26	1860	2070	90	3	45-110	30	
4-Nitroaniline	12/02/2010	20:26	686	2070	33	22	35-115	30	*FAIL*
4-Nitrophenol	12/02/2010	20:26	1970	2070	95	2	15-140	30	
Acenaphthene	12/02/2010	20:26	1850	2070	89	2	45-110	30	
Acenaphthylene	12/02/2010	20:26	1820	2070	87	2	45-105	30	
Acetophenone	12/02/2010	20:26	1710	2070	83	0	25-96	30	

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Sample Description

SOIL SEMIVOLATILE MATRIX SPIKE DUPLICATE RECOVERY

DLASS-014-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOIL SDG No.: 82399

Analytical Method: EPA 8270C Concentration Units: ug/kg

Analytical Run #: 72179 Sample No.: 874147 Parent Sample No.: 874146

Analytical Prep Batch #: 35517 Analytical Preparation Date/Time: 11/22/2010 10:00

Analyte	Analysis Date/Time		Spike Result	Spike Amount	%R	%RPD	Control Limits (%R)	Control Limits (%RPD)	
Aniline	12/02/2010	20:26	29.4	2070	1	5	14-110	30	*FAIL*
Anthracene	12/02/2010	20:26	1850	2070	88	3	55-105	30	
Azobenzene & 1,2-Diphenylhydra	12/02/2010	20:26	3700	4150	89	5	55-115	30	
Benzidine	12/02/2010	20:26	0	2070	0	0	1-161	30	*FAIL*
Benzo(a)anthracene	12/02/2010	20:26	2050	2070	90	5	50-110	30	
Benzo(a)pyrene	12/02/2010	20:26	2010	2070	88	7	50-110	30	
Benzo(b)fluoranthene	12/02/2010	20:26	2210	2070	92	12	45-115	30	
Benzo(g,h,i)perylene	12/02/2010	20:26	1640	2070	73	3	40-125	30	
Benzo(k)fluoranthene	12/02/2010	20:26	1950	2070	88	1	45-125	30	
Benzoic acid	12/02/2010	20:26	649	2070	-16	22	0-110	30	*FAIL*
Benzyl alcohol	12/02/2010	20:26	840	2070	41	28	20-125	30	
Bis(2-chloroethoxy)methane	12/02/2010	20:26	1720	2070	83	1	45-110	30	
Bis(2-chloroethyl)ether	12/02/2010	20:26	1680	2070	81	1	40-105	30	
Bis(2-chloroisopropyl)ether	12/02/2010	20:26	1700	2070	82	3	20-115	30	
Bis(2-ethylhexyl)phthalate	12/02/2010	20:26	2850	2070	94	2	45-125	30	
Butylbenzylphthalate	12/02/2010	20:26	1940	2070	93	3	50-125	30	
Carbazole	12/02/2010	20:26	1960	2070	93	6	45-115	30	
Chrysene	12/02/2010	20:26	2070	2070	90	5	55-110	30	
Dibenzo(a,h)anthracene	12/02/2010	20:26	1680	2070	79	2	40-125	30	
Dibenzofuran	12/02/2010	20:26	1870	2070	89	2	50-105	30	
Diethylphthalate	12/02/2010	20:26	1920	2070	90	2	50-115	30	
Dimethylphthalate	12/02/2010	20:26	1840	2070	89	3	50-110	30	
Di-n-butylphthalate	12/02/2010	20:26	2080	2070	95	4	55-110	30	
Di-n-octylphthalate	12/02/2010	20:26	1960	2070	95	3	40-130	30	
Fluoranthene	12/02/2010	20:26	2370	2070	91	3	55-115	30	
Fluorene	12/02/2010	20:26	1860	2070	89	2	50-110	30	
Hexachlorobenzene	12/02/2010	20:26	1810	2070	87	3	45-120	30	
Hexachlorobutadiene	12/02/2010	20:26	1680	2070	81	2	40-115	30	
Hexachlorocyclopentadiene	12/02/2010	20:26	817	2070	39	1	30-137	30	
Hexachloroethane	12/02/2010	20:26	1600	2070	77	2	35-110	30	
Indeno(1,2,3-cd)pyrene	12/02/2010	20:26	1760	2070	79	1	40-120	30	
Isophorone	12/02/2010	20:26	1700	2070	82	4	45-110	30	

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Sample Description

SOIL SEMIVOLATILE MATRIX SPIKE DUPLICATE RECOVERY

DLASS-014-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOIL SDG No.: 82399

Analytical Method: EPA 8270C Concentration Units: ug/kg

Analytical Run #: 72179 Sample No.: 874147 Parent Sample No.: 874146

Analytical Prep Batch #: 35517 Analytical Preparation Date/Time: 11/22/2010 10:00

Analyte	Analysis Date/Time		Spike Result	Spike Amount	%R	%RPD	Control Limits (%R)	Control Limits (%RPD)	
Naphthalene	12/02/2010	20:26	1770	2070	84	2	40-105	30	
Nitrobenzene	12/02/2010	20:26	1760	2070	85	1	40-115	30	
N-Nitrosodimethylamine	12/02/2010	20:26	1430	2070	69	1	20-115	30	
N-Nitroso-di-n-propylamine	12/02/2010	20:26	1660	2070	80	3	40-115	30	
N-Nitrosodiphenylamine & Diphn	12/02/2010	20:26	3650	4150	88	4	50-115	30	
N-Nitrosopyrrolidine	12/02/2010	20:26	1740	2070	84	5	59-110	30	
Pentachlorophenol	12/02/2010	20:26	1610	2070	78	6	25-120	30	
Phenanthrene	12/02/2010	20:26	2120	2070	90	3	50-110	30	
Phenol	12/02/2010	20:26	1870	2070	89	1	40-100	30	
Pyrene	12/02/2010	20:26	2290	2070	93	5	45-125	30	
Pyridine	12/02/2010	20:26	0	2070	0	0	16-121	30	*FAIL*

RPD or Spike Recovery: 8 out of 75 outside QC limits

CT LABORATORIES
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Sample Description

SOIL SEMIVOLATILE MATRIX SPIKE DUPLICATE RECOVERY

DLASS-014-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOIL SDG No.: 82399

Analytical Method: EPA 8330 Concentration Units: mg/kg

Analytical Run #: 72412 Sample No.: 875963 Parent Sample No.: 875962

Analytical Prep Batch #: 35573 Analytical Preparation Date/Time: 12/02/2010 12:00

Analyte	Analysis Date/Time	Spike Result	Spike Amount	%R	%RPD	Control Limits (%R)	Control Limits (%RPD)
Nitroguanidine	12/16/2010 22:49	2.16	2.00	93	2	50-150	30

RPD or Spike Recovery: 0 out of 1 outside QC limits

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Sample Description

SOIL SEMIVOLATILE MATRIX SPIKE DUPLICATE RECOVERY

DLASS-014-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOIL SDG No.: 82399

Analytical Method: EPA 8330B Concentration Units: mg/kg

Analytical Run #: 72413 Sample No.: 875954 Parent Sample No.: 875953

Analytical Prep Batch #: 35571 Analytical Preparation Date/Time: 12/02/2010 13:30

Analyte	Analysis Date/Time		Spike Result	Spike Amount	%R	%RPD	Control Limits (%R)	Control Limits (%RPD)
1,3,5-Trinitrobenzene	12/14/2010	11:30	2.05	1.98	104	4	72-121	15
1,3-Dinitrobenzene	12/14/2010	11:30	2.11	1.98	107	3	74-120	20
2,4,6-Trinitrotoluene	12/14/2010	11:30	2.32	1.98	117	9	56-135	28
2,4-Dinitrotoluene	12/14/2010	11:30	2.22	1.98	112	4	64-131	51
2,6-Dinitrotoluene	12/14/2010	11:30	1.99	1.98	101	7	63-131	18
2-Amino-4,6-dinitrotoluene	12/14/2010	11:30	2.01	1.98	102	3	71-118	18
2-Nitrotoluene	12/14/2010	11:30	2.11	1.98	107	6	78-113	13
3,5-Dinitroaniline	12/14/2010	11:30	2.01	1.98	102	3	1-153	30
3-Nitrotoluene	12/14/2010	11:30	2.09	1.98	106	4	74-115	15
4-Amino-2,6-dinitrotoluene	12/14/2010	11:30	1.58	1.98	80	9	72-123	20
4-Nitrotoluene	12/14/2010	11:30	2.12	1.98	107	6	80-110	15
HMX	12/14/2010	11:30	1.87	1.98	94	3	59-133	27
Nitrobenzene	12/14/2010	11:30	2.05	1.98	104	1	73-120	19
Nitroglycerin	12/14/2010	11:30	8.32	7.93	105	6	76-130	18
PETN	12/14/2010	11:30	8.56	7.93	108	4	74-123	16
RDX	12/14/2010	11:30	1.85	1.98	93	1	55-120	30
Tetryl	12/14/2010	11:30	1.63	1.98	82	2	30-155	38

RPD or Spike Recovery: 0 out of 17 outside QC limits

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Sample Description

LCS

SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: CT Laboratories

Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

Sample No.: 874149

SDG No.: 82458

Analytical Method: EPA 8270C

Concentration Units: ug/kg

Analytical Run #: 72179 Sample No.: 874149 Parent Sample No.: 0

Analytical Prep Batch #: 35517 Analytical Preparation Date/Time: 11/22/2010 10:00

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
1,2,4-Trichlorobenzene	12/02/2010	19:25	45-110	1580		2000	79
1,2-Dichlorobenzene	12/02/2010	19:25	45-95	1560		2000	78
1,3-Dichlorobenzene	12/02/2010	19:25	40-100	1510		2000	76
1,4-Dichlorobenzene	12/02/2010	19:25	35-105	1550		2000	78
1-Methylnaphthalene	12/02/2010	19:25	50-150	1640		2000	82
2,4,5-Trichlorophenol	12/02/2010	19:25	50-110	1750		2000	88
2,4,6-Trichlorophenol	12/02/2010	19:25	45-110	1710		2000	86
2,4-Dichlorophenol	12/02/2010	19:25	45-110	1700		2000	85
2,4-Dimethylphenol	12/02/2010	19:25	30-105	1630		2000	82
2,4-Dinitrophenol	12/02/2010	19:25	15-130	1020		2000	51
2,4-Dinitrotoluene	12/02/2010	19:25	50-115	1840		2000	92
2,6-Dichlorophenol	12/02/2010	19:25	48-126	1650		2000	82
2,6-Dinitrotoluene	12/02/2010	19:25	50-110	1800		2000	90
2-Chloronaphthalene	12/02/2010	19:25	45-105	1710		2000	86
2-Chlorophenol	12/02/2010	19:25	45-105	1600		2000	80
2-Methylnaphthalene	12/02/2010	19:25	45-105	1680		2000	84
2-Methylphenol	12/02/2010	19:25	40-105	1690		2000	84
2-Nitroaniline	12/02/2010	19:25	45-120	1830		2000	92
2-Nitrophenol	12/02/2010	19:25	40-110	1650		2000	82
3 & 4-Methylphenol	12/02/2010	19:25	40-105	1720		2000	86
3,3'-Dichlorobenzidine	12/02/2010	19:25	10-130	1590		2000	80
3-Nitroaniline	12/02/2010	19:25	25-110	1010		2000	50
4,6-Dinitro-2-methylphenol	12/02/2010	19:25	30-135	1570		2000	78
4-Bromophenyl-phenyl ether	12/02/2010	19:25	45-115	1820		2000	91
4-Chloro-3-methylphenol	12/02/2010	19:25	45-115	1740		2000	87
4-Chloroaniline	12/02/2010	19:25	10-95	558		2000	28
4-Chlorophenyl-phenyl ether	12/02/2010	19:25	45-110	1710		2000	86
4-Nitroaniline	12/02/2010	19:25	35-115	1870		2000	94
4-Nitrophenol	12/02/2010	19:25	15-140	1720		2000	86

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Sample Description

LCS

SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: CT Laboratories
Contract: USACE - LOUISVILLE-RAVENNA ORE PILES
Sample No.: 874149
SDG No.: 82458
Analytical Method: EPA 8270C
Concentration Units: ug/kg

Analytical Run #: 72179
Sample No.: 874149
Parent Sample No.: 0
Analytical Prep Batch #: 35517
Analytical Preparation Date/Time: 11/22/2010 10:00

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R	
Acenaphthene	12/02/2010	19:25	45-110	1730		2000	86	
Acenaphthylene	12/02/2010	19:25	45-105	1730		2000	86	
Acetophenone	12/02/2010	19:25	48-126	1600		2000	80	
Aniline	12/02/2010	19:25	14-110	655		2000	33	
Anthracene	12/02/2010	19:25	55-105	1750		2000	88	
Azobenzene & 1,2-Diphenylhydra	12/02/2010	19:25	55-115	3420		4000	86	
Benzidine	12/02/2010	19:25	1-161	0		2000	0	*FAIL*
Benzo(a)anthracene	12/02/2010	19:25	50-110	1730		2000	86	
Benzo(a)pyrene	12/02/2010	19:25	50-110	1720		2000	86	
Benzo(b)fluoranthene	12/02/2010	19:25	45-115	1660		2000	83	
Benzo(g,h,i)perylene	12/02/2010	19:25	40-125	1800		2000	90	
Benzo(k)fluoranthene	12/02/2010	19:25	45-125	1730		2000	86	
Benzoic acid	12/02/2010	19:25	0-110	610		2000	30	
Benzyl alcohol	12/02/2010	19:25	20-125	1600		2000	80	
Bis(2-chloroethoxy)methane	12/02/2010	19:25	45-110	1670		2000	84	
Bis(2-chloroethyl)ether	12/02/2010	19:25	40-105	1630		2000	82	
Bis(2-chloroisopropyl)ether	12/02/2010	19:25	20-115	1600		2000	80	
Bis(2-ethylhexyl)phthalate	12/02/2010	19:25	45-125	1770		2000	88	
Butylbenzylphthalate	12/02/2010	19:25	50-125	1770		2000	88	
Carbazole	12/02/2010	19:25	45-115	1820		2000	91	
Chrysene	12/02/2010	19:25	55-110	1710		2000	86	
Dibenzo(a,h)anthracene	12/02/2010	19:25	40-125	1820		2000	91	
Dibenzofuran	12/02/2010	19:25	50-105	1740		2000	87	
Diethylphthalate	12/02/2010	19:25	50-115	1790		2000	90	
Dimethylphthalate	12/02/2010	19:25	50-110	1730		2000	86	
Di-n-butylphthalate	12/02/2010	19:25	55-110	1880		2000	94	
Di-n-octylphthalate	12/02/2010	19:25	40-130	1800		2000	90	
Fluoranthene	12/02/2010	19:25	55-115	1720		2000	86	
Fluorene	12/02/2010	19:25	50-110	1690		2000	84	

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Sample Description

LCS

SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

Sample No.: 874149 SDG No.: 82458

Analytical Method: EPA 8270C Concentration Units: ug/kg

Analytical Run #: 72179 Sample No.: 874149 Parent Sample No.: 0

Analytical Prep Batch #: 35517 Analytical Preparation Date/Time: 11/22/2010 10:00

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R	
Hexachlorobenzene	12/02/2010	19:25	45-120	1650		2000	82	
Hexachlorobutadiene	12/02/2010	19:25	40-115	1530		2000	76	
Hexachlorocyclopentadiene	12/02/2010	19:25	30-137	1540		2000	77	
Hexachloroethane	12/02/2010	19:25	35-110	1510		2000	76	
Indeno(1,2,3-cd)pyrene	12/02/2010	19:25	40-120	1790		2000	90	
Isophorone	12/02/2010	19:25	45-110	1580		2000	79	
Naphthalene	12/02/2010	19:25	40-105	1660		2000	83	
Nitrobenzene	12/02/2010	19:25	40-115	1660		2000	83	
N-Nitrosodimethylamine	12/02/2010	19:25	20-115	1130		2000	56	
N-Nitroso-di-n-propylamine	12/02/2010	19:25	40-115	1610		2000	80	
N-Nitrosodiphenylamine & Diphn	12/02/2010	19:25	50-115	3500		4000	88	
N-Nitrosopyrrolidine	12/02/2010	19:25	59-110	1590		2000	80	
Pentachlorophenol	12/02/2010	19:25	25-120	799		2000	40	
Phenanthrene	12/02/2010	19:25	50-110	1730		2000	86	
Phenol	12/02/2010	19:25	40-100	1660		2000	83	
Pyrene	12/02/2010	19:25	45-125	1740		2000	87	
Pyridine	12/02/2010	19:25	16-121	146		2000	7	*FAIL*

Spike Recovery: 2 out of 75 outside limits

CT LABORATORIES
delivering more than data from your environmental analyses

3D

Sample Description

LCS

SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: CT Laboratories

Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

Sample No.: 875952

SDG No.: 82458

Analytical Method: EPA 8330B

Concentration Units: mg/kg

Analytical Run #: 72413 Sample No.: 875952 Parent Sample No.: 0

Analytical Prep Batch #: 35571 Analytical Preparation Date/Time: 12/02/2010 13:30

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
1,3,5-Trinitrobenzene	12/14/2010	10:21	78-121	2.04		1.99	103
1,3-Dinitrobenzene	12/14/2010	10:21	83-115	2.13		1.99	107
2,4,6-Trinitrotoluene	12/14/2010	10:21	69-129	1.85		1.99	93
2,4-Dinitrotoluene	12/14/2010	10:21	80-118	2.22		1.99	112
2,6-Dinitrotoluene	12/14/2010	10:21	74-122	1.97		1.99	99
2-Amino-4,6-dinitrotoluene	12/14/2010	10:21	75-118	2.05		1.99	103
2-Nitrotoluene	12/14/2010	10:21	77-118	2.09		1.99	105
3,5-Dinitroaniline	12/14/2010	10:21	10-165	2.26		1.99	114
3-Nitrotoluene	12/14/2010	10:21	75-118	2.11		1.99	106
4-Amino-2,6-dinitrotoluene	12/14/2010	10:21	75-122	2.13		1.99	107
4-Nitrotoluene	12/14/2010	10:21	76-118	2.09		1.99	105
HMX	12/14/2010	10:21	71-120	1.93		1.99	97
Nitrobenzene	12/14/2010	10:21	82-116	2.15		1.99	108
Nitroglycerin	12/14/2010	10:21	77-123	3.88		3.97	98
PETN	12/14/2010	10:21	74-123	3.73		3.97	94
RDX	12/14/2010	10:21	63-125	1.87		1.99	94
Tetryl	12/14/2010	10:21	10-165	1.70		1.99	85

Spike Recovery: 0 out of 17 outside limits

CT LABORATORIES
delivering more than data from your environmental analyses

3D

Sample Description

LCS

SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: CT Laboratories

Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

Sample No.: 875960

SDG No.: 82458

Analytical Method: EPA 8330

Concentration Units: mg/kg

Analytical Run #: 72412

Sample No.: 875960

Parent Sample No.: 0

Analytical Prep Batch #: 35573

Analytical Preparation Date/Time: 12/02/2010 12:00

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
Nitroguanidine	12/16/2010 22:06	50-150	1.95		1.95	100

Spike Recovery: 0 out of 1 outside limits

CT LABORATORIES
delivering more than data from your environmental analyses

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Sample ID:	874148	SDG No.:	82458
Matrix:	SOLID	Date Extracted:	11/22/2010
Date Analyzed:	12/02/2010	Time Analyzed:	19:05
Analytical Method:	EPA 8270C	Extraction Method:	SW3545
Analytical Run #:	72179	Extraction Batch #:	35517

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

SEQUENCE	SAMPLE DESCRIPTION	SAMPLE ID	DATE/TIME ANALYZED
1	MBS	874148	12/02/2010 19:05
2	LCSS	874149	12/02/2010 19:25
3	DLASS-014-0001-SOMSS	874146	12/02/2010 20:06
4	DLASS-014-0001-SOMSDS	874147	12/02/2010 20:26
5	DLASS-032-0003-SO	871184	12/02/2010 21:06
6	DLASS-042-0003-SO	871186	12/02/2010 21:26
7	DLASS-042-0001-SO	871197	12/02/2010 21:46
8	DLASS-032-0001-SO	871198	12/02/2010 22:06

CT LABORATORIES
delivering more than data from your environmental analyses

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Sample ID:	875951	SDG No.:	82458
Matrix:	SOLID	Date Extracted:	12/02/2010
Date Analyzed:	12/14/2010	Time Analyzed:	09:58
Analytical Method:	EPA 8330B	Extraction Method:	SW8330B
Analytical Run #:	72413	Extraction Batch #:	35571

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

SEQUENCE	SAMPLE DESCRIPTION	SAMPLE ID	DATE/TIME ANALYZED
1	MBS	875951	12/14/2010 09:58
2	LCSS	875952	12/14/2010 10:21
3	DLASS-014-0001-SOMSS	875953	12/14/2010 11:07
4	DLASS-014-0001-SOMSDS	875954	12/14/2010 11:30
5	DLASS-032-0003-SO	871184	12/14/2010 13:03
6	DLASS-042-0003-SO	871186	12/14/2010 13:26
7	DLASS-042-0001-SO	871197	12/14/2010 14:13
8	DLASS-032-0001-SO	871198	12/14/2010 14:36

CT LABORATORIES
delivering more than data from your environmental analyses

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Sample ID:	875959	SDG No.:	82458
Matrix:	SOLID	Date Extracted:	12/02/2010
Date Analyzed:	12/16/2010	Time Analyzed:	21:52
Analytical Method:	EPA 8330	Extraction Method:	SW8330
Analytical Run #:	72412	Extraction Batch #:	35573

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

SEQUENCE	SAMPLE DESCRIPTION	SAMPLE ID	DATE/TIME ANALYZED
1	MBS	875959	12/16/2010 21:52
2	LCSS	875960	12/16/2010 22:06
3	DLASS-014-0001-SOMSS	875962	12/16/2010 22:35
4	DLASS-014-0001-SOMSDS	875963	12/16/2010 22:49
5	DLASS-032-0003-SO	871184	12/16/2010 23:46
6	DLASS-042-0003-SO	871186	12/17/2010 00:00
7	DLASS-042-0001-SO	871197	12/17/2010 00:29
8	DLASS-032-0001-SO	871198	12/17/2010 00:43

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE - RAVENNA

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 82458

Lab File ID: 2DFTPP51.D DFTPP Injection Date: 12/02/10

Instrument ID: SVMS2 DFTPP Injection Time: 11:11

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	41.5
68	Less than 2.0% of mass 69	1.1 (1.1)1
69	Mass 69 relative abundance	27.3
70	Less than 2.0% of mass 69	0.6 (0.6)1
127	40.0 - 60.0% of mass 198	45.8
197	Less than 1.0% of mass 198	0.1
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 30.0% of mass 198	21.3
365	Greater than 1.0% of mass 198	1.6
441	Present, but less than mass 443	79.3
442	40.0 - 100.0% of mass 198	91.9
443	17.0 - 23.0% of mass 442	20.6 (20.6)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	Inst Blank	IB	2IB01	12/02/10	11:26
02	ICAL7 50 ug/mL	ICAL7	2ICAL7.D	12/02/10	11:47
03	ICAL6 40 ug/mL	ICAL6	2ICAL6.D	12/02/10	12:07
04	ICAL5 30 ug/mL	ICAL5	2ICAL5.D	12/02/10	12:28
05	ICAL4 20 ug/mL	ICAL4	2ICAL4.D	12/02/10	12:48
06	ICAL3 10 ug/mL	ICAL3	2ICAL3.D	12/02/10	13:08
07	ICAL2 5 ug/mL	ICAL2	2ICAL2.D	12/02/10	13:29
08	ICAL1 1 ug/mL	ICAL1	2ICAL1.D	12/02/10	13:49
09	ICV1 20 ug/mL	ICV1	2ICV1.D	12/02/10	14:10
10	ICV2 40 ug/ml	ICV2	2ICV2.D	12/02/10	14:30
11	Method Blank	874418	2MBS01.D	12/02/10	19:05
12	LCS	874149	2LCSS01.D	12/02/10	19:25
13	870201	870201	870201.D	12/02/10	19:45
14	870201MS	874146	870201MS.D	12/02/10	20:06
15	870201MSD	874147	870201SD.D	12/02/10	20:26
16	DLASS-032-0003-SO	871184	871184.D	12/02/10	21:06
17	DLASS-042-0003-SO	871186	871186.D	12/02/10	21:26
18	DLASS-042-0001-SO	871197	871197.D	12/02/10	21:46
19	DLASS-032-0001-SO	871198	871198.D	12/02/10	22:06
20	870201MS	874146	870201SR.D	12/02/10	22:26
21	870201MSD	874147	870201DR.D	12/02/10	22:47

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE - RAVENNA

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 82458

Lab File ID: 2DFTPP53.D DFTPP Injection Date: 12/05/10

Instrument ID: SVMS2 DFTPP Injection Time: 12:45

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	41.9
68	Less than 2.0% of mass 69	1.4 (1.4)1
69	Mass 69 relative abundance	27.5
70	Less than 2.0% of mass 69	0.5 (0.5)1
127	40.0 - 60.0% of mass 198	46.3
197	Less than 1.0% of mass 198	0.1
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.1
275	10.0 - 30.0% of mass 198	20.4
365	Greater than 1.0% of mass 198	1.9
441	Present, but less than mass 443	82.7
442	40.0 - 100.0% of mass 198	91.6
443	17.0 - 23.0% of mass 442	19.3 (19.3)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CCV	CCV	2CCV47.D	12/05/10	13:01
02	LCS	874149	2LCSS02R.D	12/05/10	20:01
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Contract :
Project : Site : Location : Group : 82458
Lab File ID (Standard): 2ICAL4.D Date Analyzed : 2 Dec 2010
Instrument ID : SVMS2 Time Analyzed : 12:48 pm
GC Column : ID : (mm) Heated Purge (Y:N) :

	IS1 (DCB)		IS2 (NPT)		IS3 (ANT)	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	480653	4.43	2199649	6.07	1168924	7.58
UPPER LIMIT	961306	4.93	4399298	6.57	2337848	8.08
LOWER LIMIT	240327	3.93	1099825	5.57	584462	7.08
File ID Sample						
2ICV1 ICV 1 20u	514539	4.43	2311544	6.07	1186636	7.57
2LCSS01 72179,LCS	569854	4.43	2603938	6.07	1310497	7.58
2MBS01 72179,MBS	502657	4.43	2283741	6.07	1179017	7.58
870201 72179,870	509262	4.43	2305009	6.06	1235818	7.57
870201DR 72179,MSD	530104	4.43	2490338	6.07	1299820	7.58
870201MS 72179,MSS	539949	4.43	2505027	6.07	1285088	7.58
870201SD 72179,MSD	534794	4.43	2454441	6.07	1277919	7.58
870201SR 72179,MSS	561411	4.43	2584333	6.07	1324710	7.57
871184 72179,871	544751	4.43	2519780	6.07	1299567	7.58
871186 72179,871	533284	4.43	2493096	6.07	1312055	7.58
871197 72179,871	529704	4.43	2372904	6.07	1275455	7.58
871198 72179,871	548408	4.43	2504036	6.07	1339660	7.58

IS1 (DCB) = 14Diclbenzd4
IS2 (NPT) = Naphthalened8
IS3 (ANT) = Acenaphthened10

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk
* Values outside of contract required QC limits

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Contract :
Project : Site : Location : Group : 82458
Lab File ID (Standard): 2ICAL4.D Date Analyzed : 2 Dec 2010
Instrument ID : SVMS2 Time Analyzed : 12:48 pm
GC Column : ID : (mm) Heated Purge (Y:N) :

	IS4 (PHN)		IS5 (CRY)		IS6 (PRY)	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	1716493	8.47	1597155	9.94	1415096	10.90
UPPER LIMIT	3432986	8.97	3194310	10.44	2830192	11.40
LOWER LIMIT	858247	7.97	798578	9.44	707548	10.40
File ID Sample						
2ICV1 ICV 1 20u	1773794	8.47	1627497	9.94	1429018	10.91
2LCSS01 72179,LCS	1966475	8.47	1851045	9.93	1710163	10.90
2MBS01 72179,MBS	1744631	8.47	1599104	9.93	1489619	10.90
870201 72179,870	1852195	8.46	1711956	9.93	1393987	10.90
870201DR 72179,MSD	1927121	8.47	1774363	9.94	1414941	10.91
870201MS 72179,MSS	1924294	8.47	1792426	9.94	1620580	10.91
870201SD 72179,MSD	1917039	8.47	1788125	9.94	1599522	10.91
870201SR 72179,MSS	1983037	8.47	1804255	9.94	1500695	10.91
871184 72179,871	1965471	8.47	1808445	9.93	1588906	10.90
871186 72179,871	2010353	8.47	1858067	9.93	1651429	10.90
871197 72179,871	1913816	8.47	1754088	9.93	1519621	10.90
871198 72179,871	1987642	8.47	1836038	9.93	1525966	10.90

IS4 (PHN) = Phenanthrd10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk
* Values outside of contract required QC limits

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Contract :
Project : Site : Location : Group : 82458
Lab File ID (Standard): 2ICAL4.D Date Analyzed : 2 Dec 2010
Instrument ID : SVMS2 Time Analyzed : 12:48 pm
GC Column : ID : (mm) Heated Purge (Y:N) :

	IS1 (DCB)		IS2 (NPT)		IS3 (ANT)	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	480653	4.43	2199649	6.07	1168924	7.58
UPPER LIMIT	961306	4.93	4399298	6.57	2337848	8.08
LOWER LIMIT	240327	3.93	1099825	5.57	584462	7.08
File ID Sample						
2CCV47 CCV 20ug	311650	4.42	1384541	6.07	668026	7.57
2LCSS02R 72179,LCS	402037	4.42	1868468	6.07	921563	7.58

IS1 (DCB) = 14Diclbenzd4
IS2 (NPT) = Naphthalened8
IS3 (ANT) = Acenaphthened10

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk
* Values outside of contract required QC limits

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Contract :
Project : Site : Location : Group : 82458
Lab File ID (Standard): 2ICAL4.D Date Analyzed : 2 Dec 2010
Instrument ID : SVMS2 Time Analyzed : 12:48 pm
GC Column : ID : (mm) Heated Purge (Y:N) :

	IS4 (PHN)		IS5 (CRY)		IS6 (PRY)	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	1716493	8.47	1597155	9.94	1415096	10.90
UPPER LIMIT	3432986	8.97	3194310	10.44	2830192	11.40
LOWER LIMIT	858247	7.97	798578	9.44	707548	10.40
File ID Sample						
2CCV47 CCV 20ug	973359	8.48	795003 *	9.93	675578 *	10.90
2LCSS02R 72179,LCS	1415000	8.48	1240692	9.93	1159099	10.89

IS4 (PHN) = Phenanthrd10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

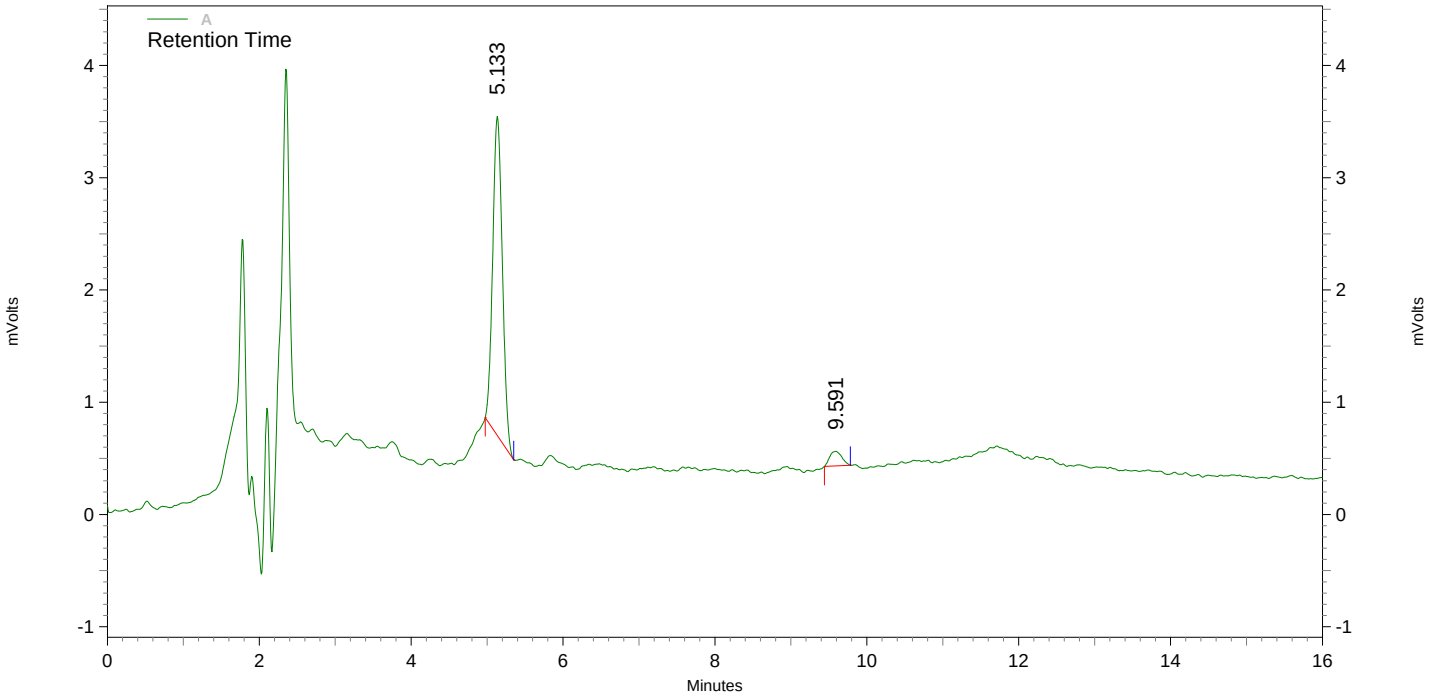
AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

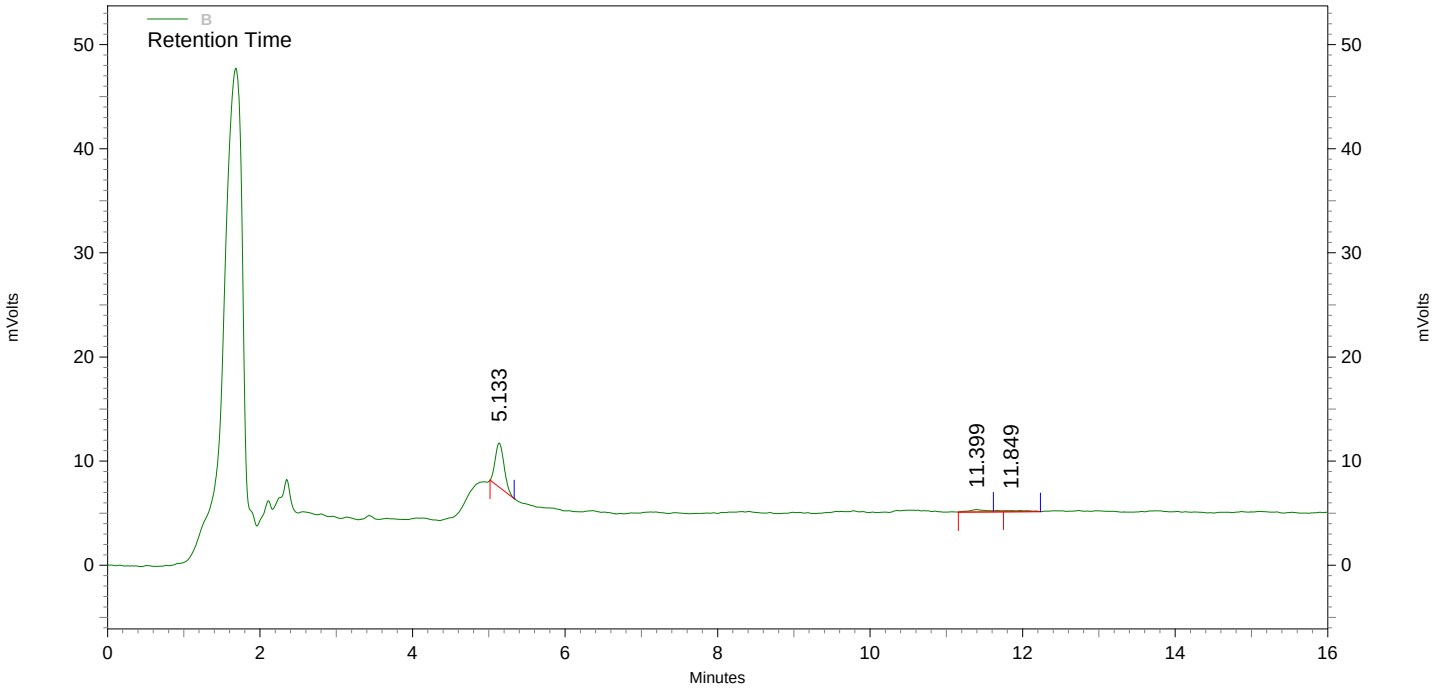
Column to be used to flag values outside QC limit with an asterisk
* Values outside of contract required QC limits

SEMI - VOLATILE ORGANIC ANALYSIS
SAMPLE DATA
DOCUMENTS

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\8330A_B\121310exp-primary\011.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\121310exp-primary.met
Sample ID: 72413,871184,
Acquired: Dec 14, 2010 13:03:36
Data Summary: {Data Description}





A Results

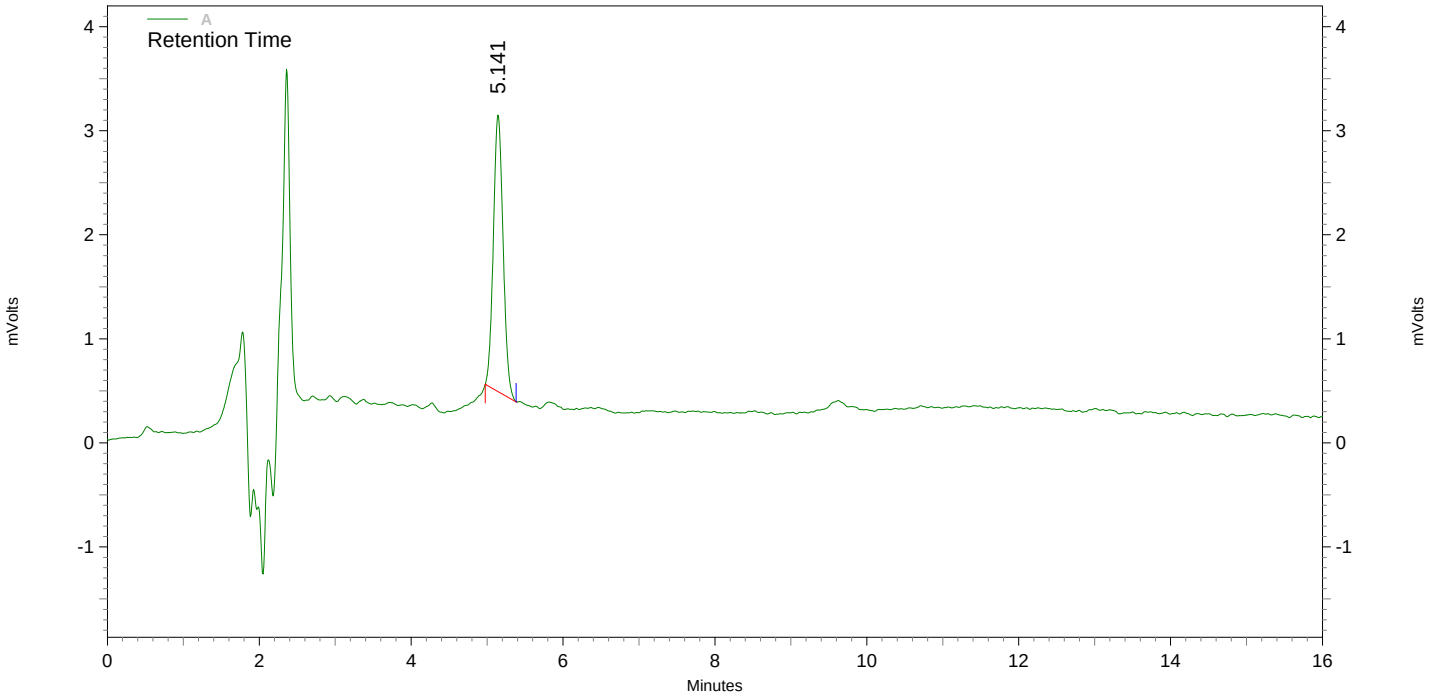
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX			**0.000 BDL**
RDX			**0.000 BDL**
12-DNB (SSTD)	5.133	25024	**139.681**
135-TNB			**0.000 BDL**
13-DNB			**0.000 BDL**
TETRYL			**0.000 BDL**
35-DNA			**0.000 BDL**
NB			**0.000 BDL**
246-TNT			**0.000 BDL**
4-AM-26-DNT			**0.000 BDL**
2-AM-46-DNT			**0.000 BDL**
2-NT			**0.000 BDL**
4-NT			**0.000 BDL**
3-NT			**0.000 BDL**

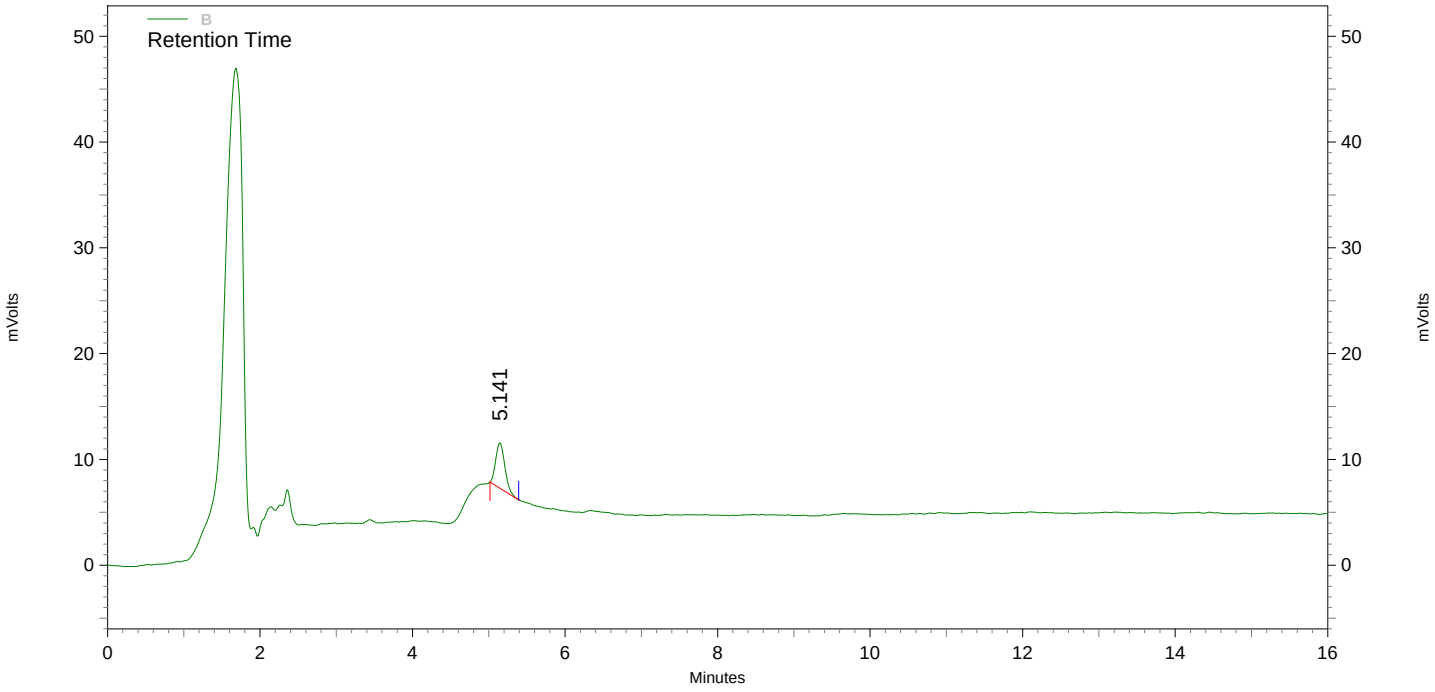
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG			**0.000 BDL**
26-DNT			**0.000 BDL**
24-DNT			**0.000 BDL**
PETN			**0.000 BDL**

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\8330A_B\121310exp-primary\012.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\121310exp-primary.met
Sample ID: 72413,871186,
Acquired: Dec 14, 2010 13:26:47
Data Summary: {Data Description}





A Results

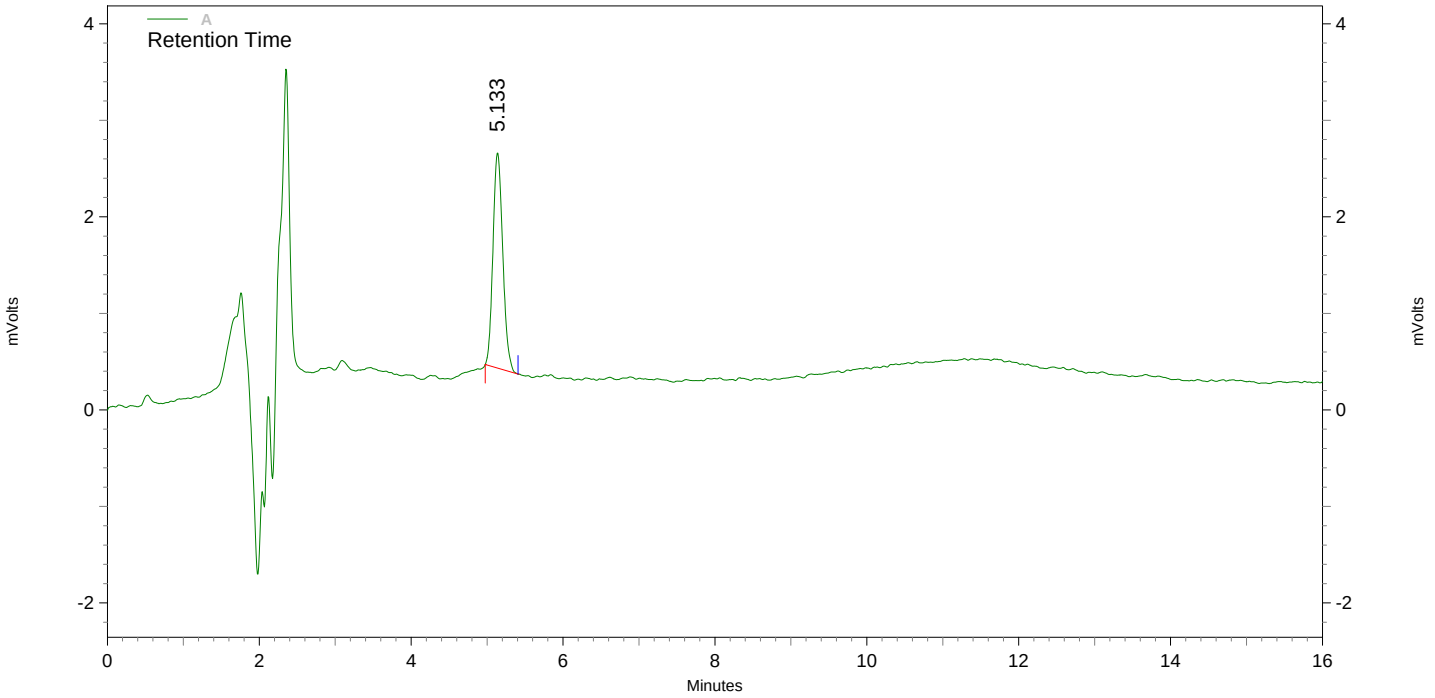
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX			**0.000 BDL**
RDX			**0.000 BDL**
12-DNB (SSTD)	5.141	23659	**131.890**
135-TNB			**0.000 BDL**
13-DNB			**0.000 BDL**
TETRYL			**0.000 BDL**
35-DNA			**0.000 BDL**
NB			**0.000 BDL**
246-TNT			**0.000 BDL**
4-AM-26-DNT			**0.000 BDL**
2-AM-46-DNT			**0.000 BDL**
2-NT			**0.000 BDL**
4-NT			**0.000 BDL**
3-NT			**0.000 BDL**

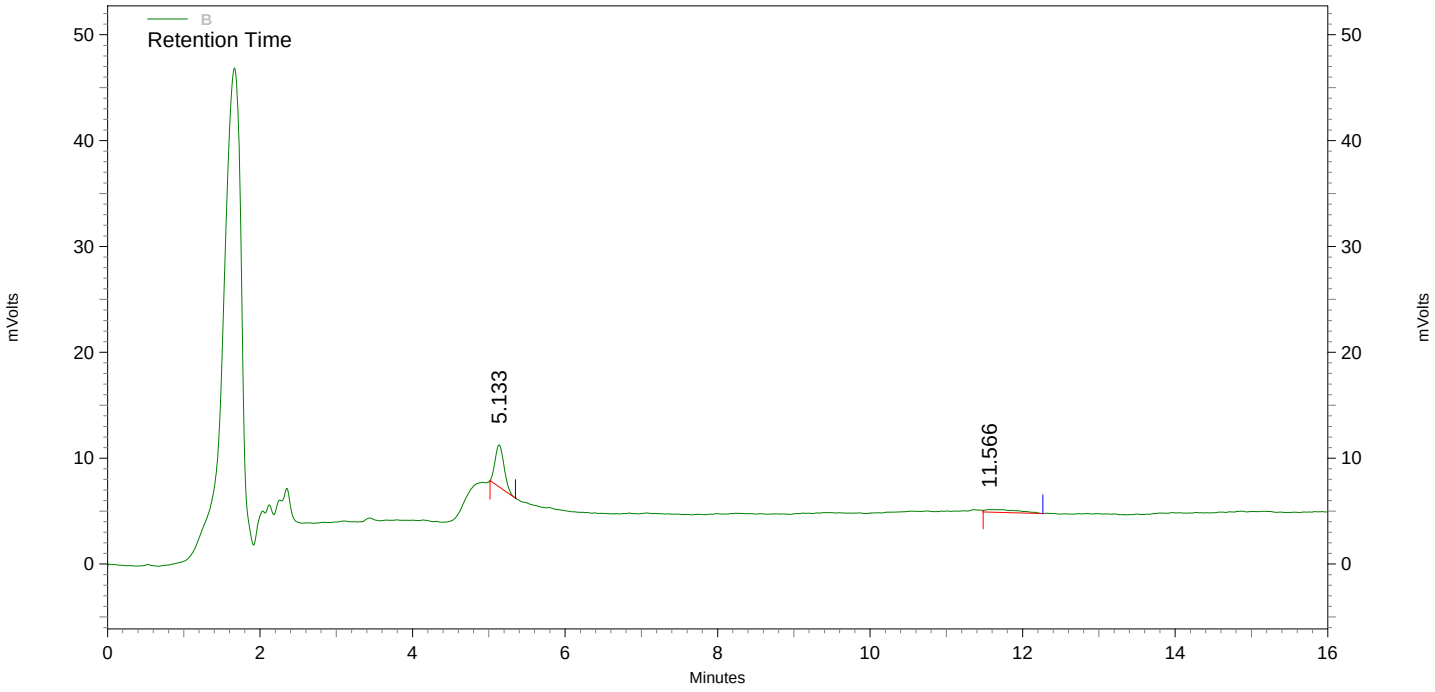
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG			**0.000 BDL**
26-DNT			**0.000 BDL**
24-DNT			**0.000 BDL**
PETN			**0.000 BDL**

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\8330A_B\121310exp-primary\014.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\121310exp-primary.met
Sample ID: 72413,871197,
Acquired: Dec 14, 2010 14:13:11
Data Summary: {Data Description}





A Results

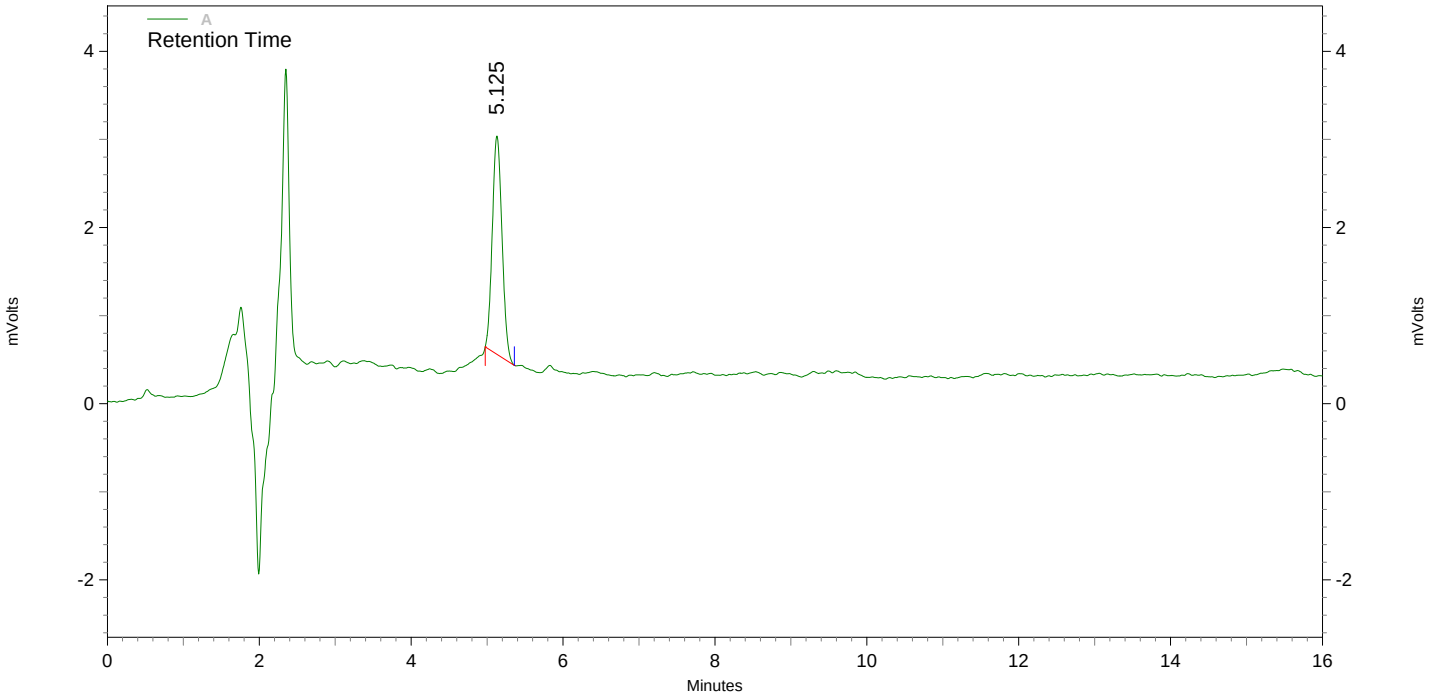
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX			**0.000 BDL**
RDX			**0.000 BDL**
12-DNB (SSTD)	5.133	19955	**110.748**
135-TNB			**0.000 BDL**
13-DNB			**0.000 BDL**
TETRYL			**0.000 BDL**
35-DNA			**0.000 BDL**
NB			**0.000 BDL**
246-TNT			**0.000 BDL**
4-AM-26-DNT			**0.000 BDL**
2-AM-46-DNT			**0.000 BDL**
2-NT			**0.000 BDL**
4-NT			**0.000 BDL**
3-NT			**0.000 BDL**

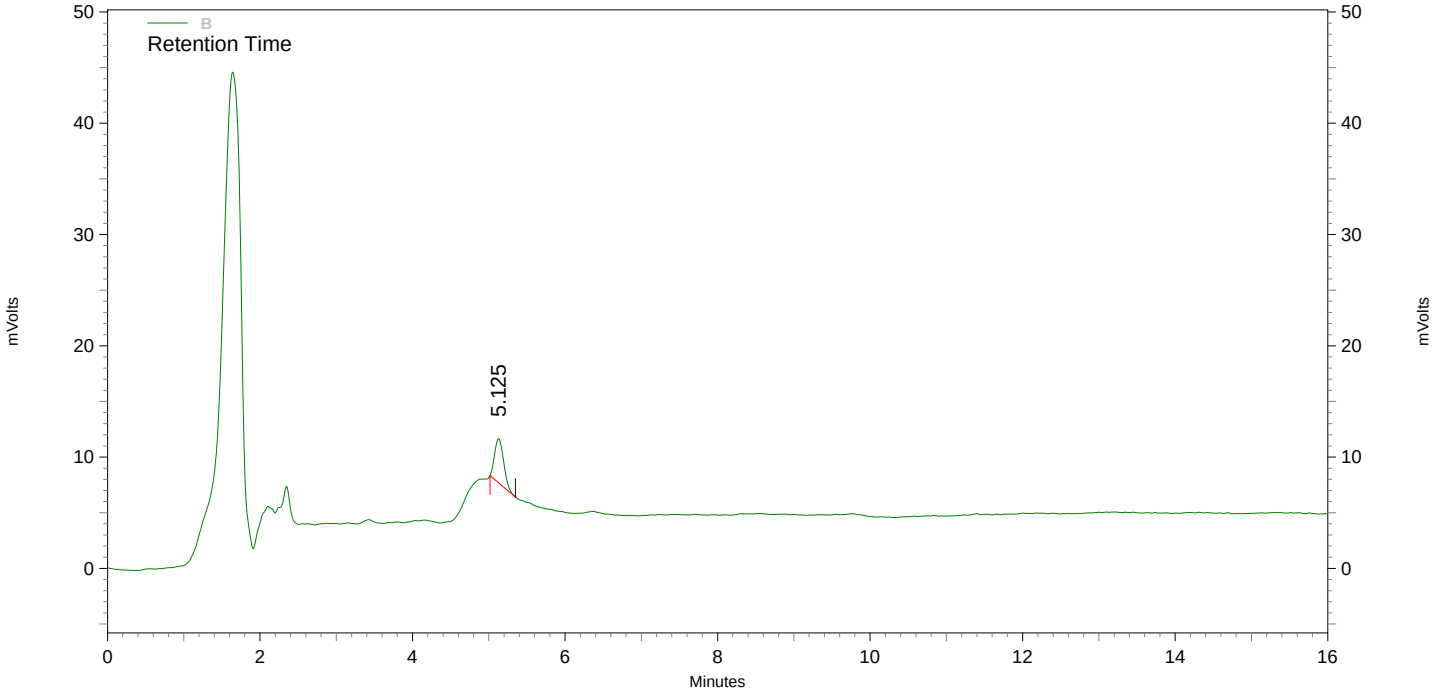
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG			**0.000 BDL**
26-DNT			**0.000 BDL**
24-DNT			**0.000 BDL**
PETN			**0.000 BDL**

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\8330A_B\121310exp-primary\015.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\121310exp-primary.met
Sample ID: 72413,871198,
Acquired: Dec 14, 2010 14:36:22
Data Summary: {Data Description}





A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX			**0.000 BDL**
RDX			**0.000 BDL**
12-DNB (SSTD)	5.125	21993	**122.381**
135-TNB			**0.000 BDL**
13-DNB			**0.000 BDL**
TETRYL			**0.000 BDL**
35-DNA			**0.000 BDL**
NB			**0.000 BDL**
246-TNT			**0.000 BDL**
4-AM-26-DNT			**0.000 BDL**
2-AM-46-DNT			**0.000 BDL**
2-NT			**0.000 BDL**
4-NT			**0.000 BDL**
3-NT			**0.000 BDL**

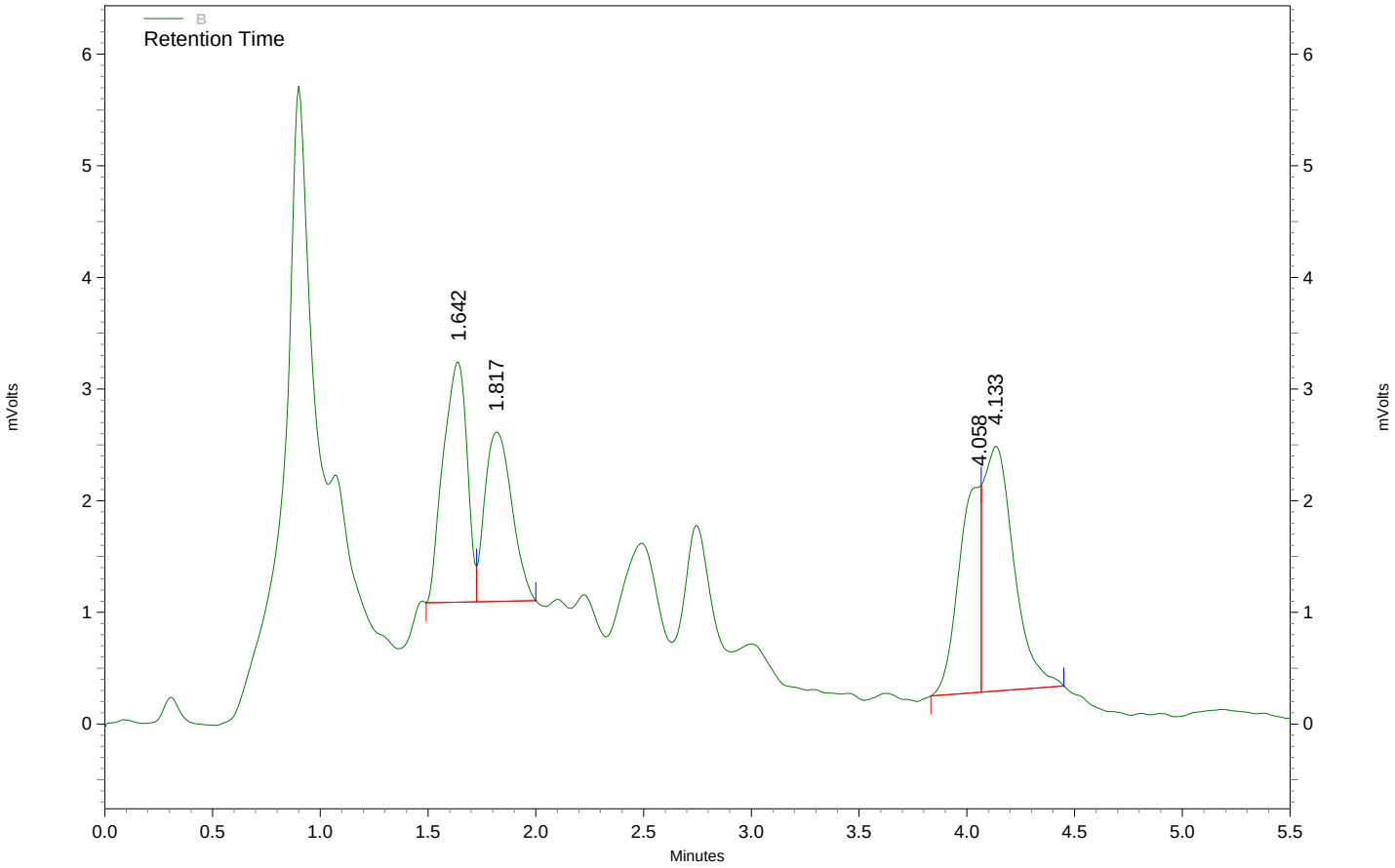
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG			**0.000 BDL**
26-DNT			**0.000 BDL**
24-DNT			**0.000 BDL**
PETN			**0.000 BDL**

RED
12/30/2010

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\NQ\121610NQ-primary\011.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121610NQ-primary.met
Sample ID: 72412,871184,
Acquired: Dec 16, 2010 10:28:23
Data Summary: {Data Description}



B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.642	16588	**0.129**
12-DNB (SSTD)	4.133	21523	**159.760**

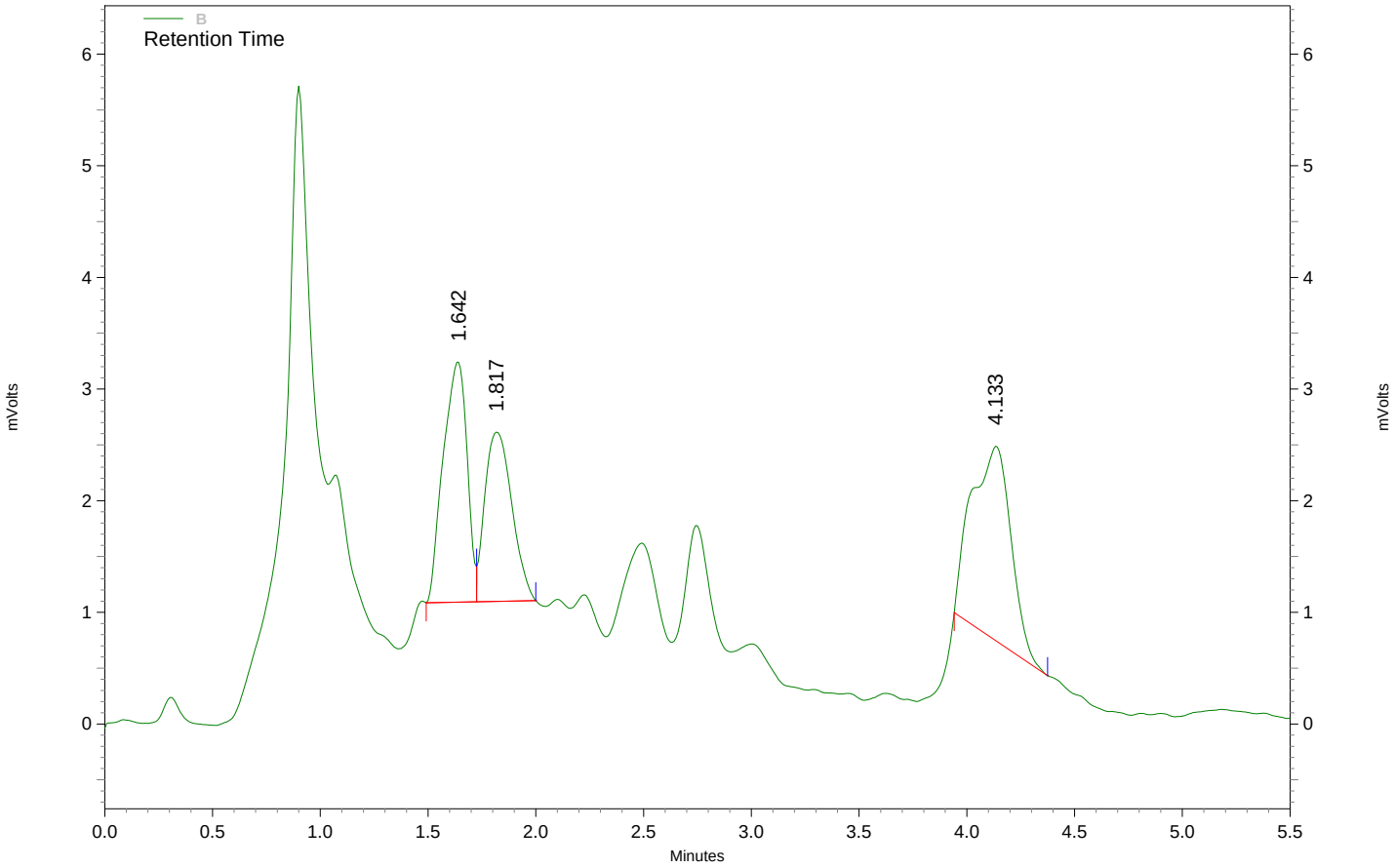
Before Manual Integration

RED 12/30/2010

JJY 12/30/2010

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\NQ\101610NQ-primary\011.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121610NQ-primary.met
Sample ID: 72412,871184,
Acquired: Dec 16, 2010 10:28:23
Data Summary: {Data Description}



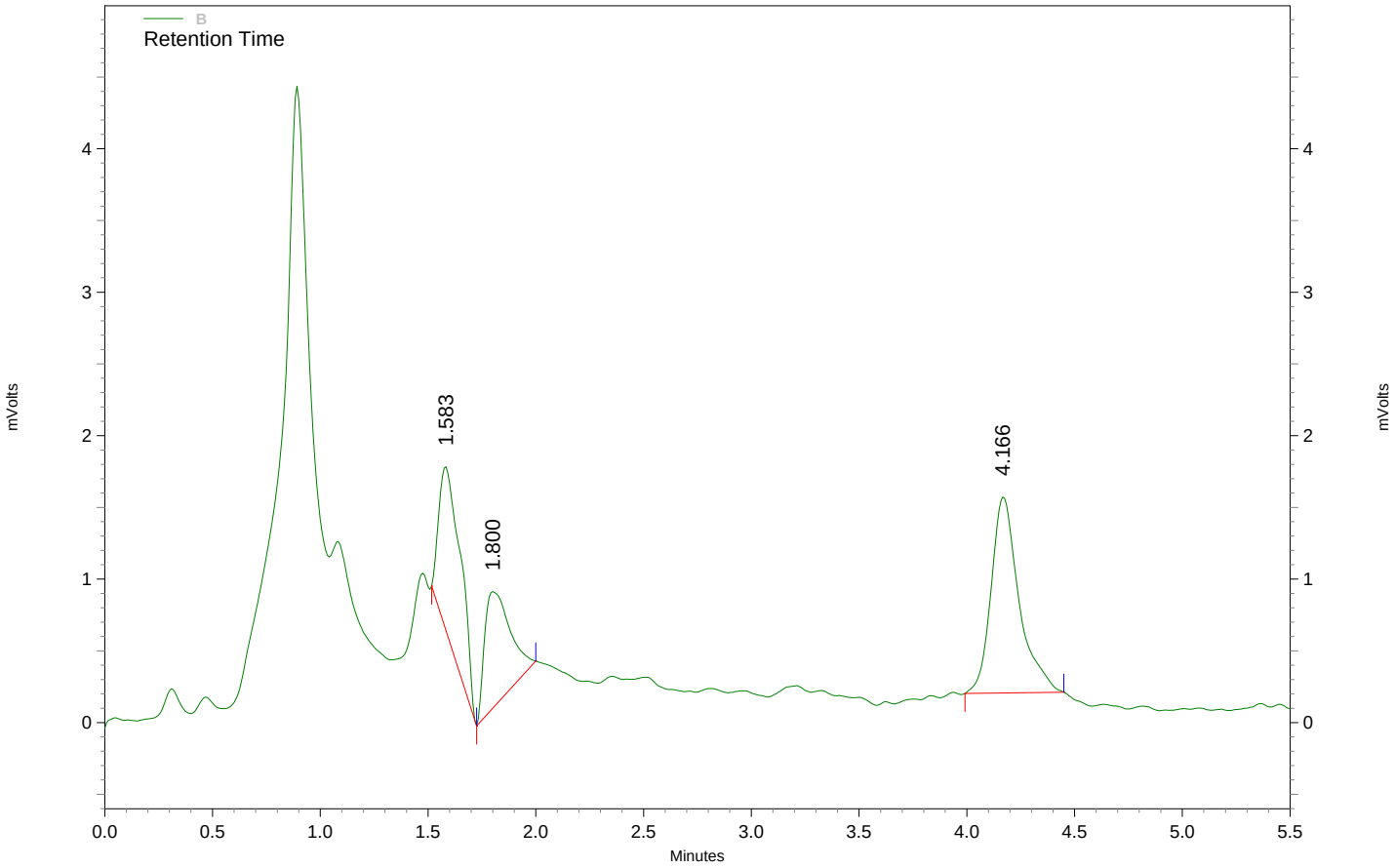
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.642	16588	**0.129**
12-DNB (SSTD)	4.133	21927	**162.754**

RED
12/30/2010

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\NQ\121610NQ-primary\012.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121610NQ-primary.met
Sample ID: 72412,871186,
Acquired: Dec 16, 2010 10:50:22
Data Summary: {Data Description}



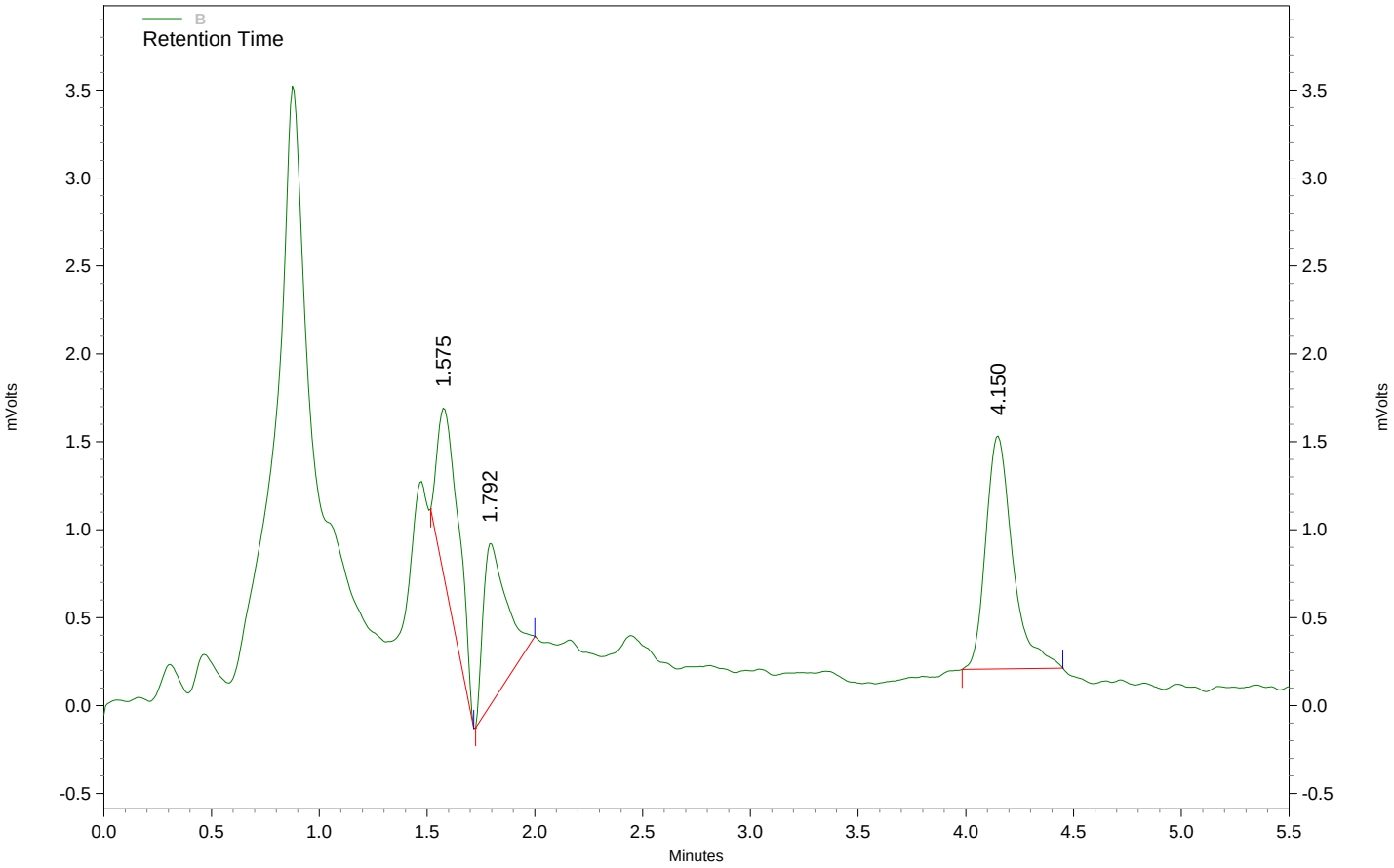
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.583	8490	**0.061**
12-DNB (SSTD)	4.166	12315	**91.507**

RED
12/30/2010

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\NQ\121610NQ-primary\014.dat
User ID: **red**
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121610NQ-primary.met
Sample ID: 72412,871197,
Acquired: Dec 16, 2010 11:05:59
Data Summary: {Data Description}



B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.575	7197	**0.050**
12-DNB (SSTD)	4.150	11583	**86.081**

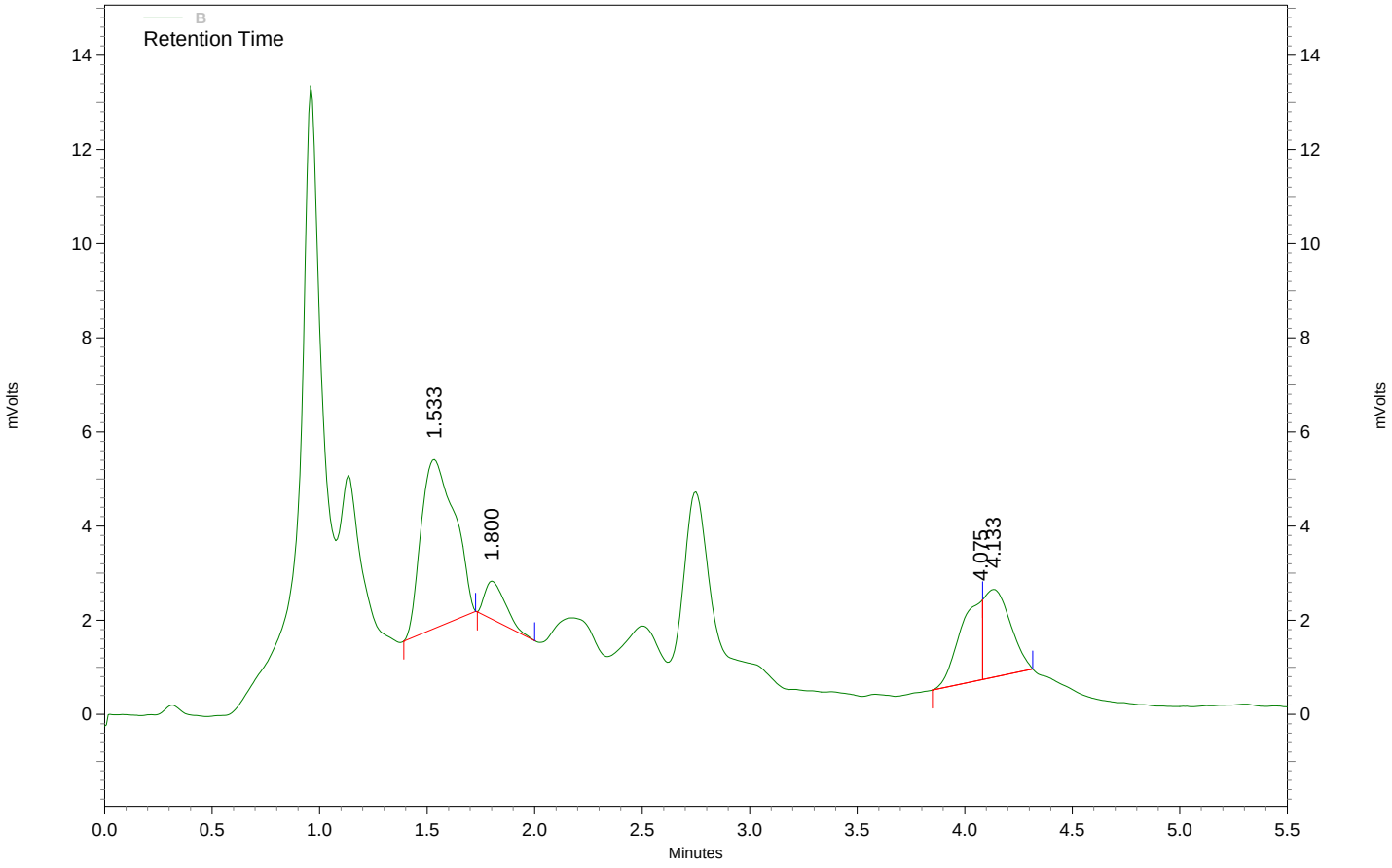
After Manual Integration

RED 12/30/2010

JJY 12/30/2010

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\NQ\121610NQ-primary\027.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121610NQ-primary.met
Sample ID: 72412,871198,
Acquired: Dec 16, 2010 12:47:18
Data Summary: Reasons #3 and #4 apply to data. The baseline integration was adjusted to follow the chromatogram baseline and a split was added to remove an interfering shoulder from the surrogate peak. RED 12/16/2010



B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.533	38778	**0.318**
12-DNB (SSTD)	4.133	15700	**116.598**

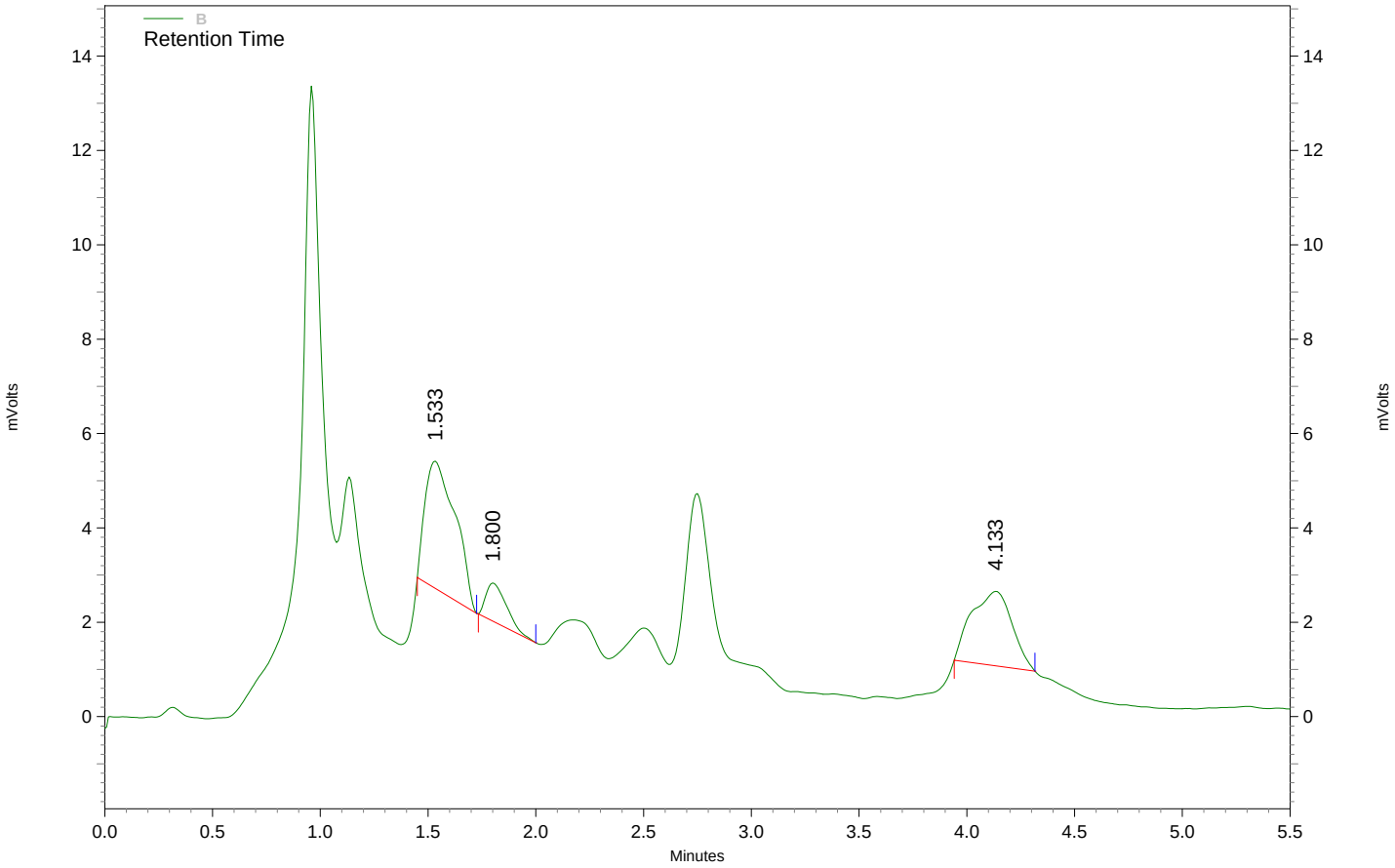
Before Manual Integration

RED 12/30/2010

JJY 12/30/2010

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\NQ\101610NQ-primary\027.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121610NQ-primary.met
Sample ID: 72412,871198,
Acquired: Dec 16, 2010 12:47:18
Data Summary: {Data Description}



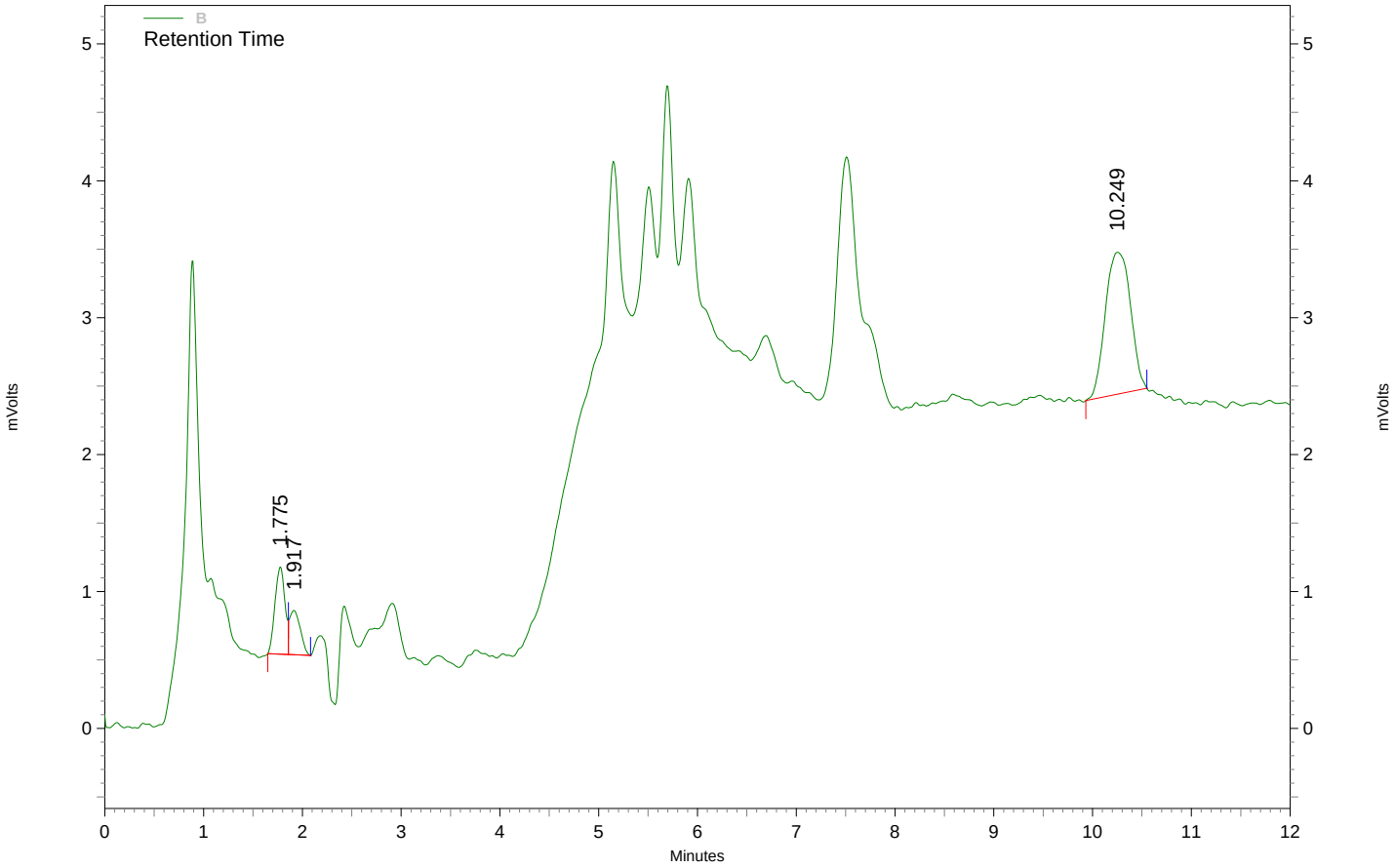
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.533	26748	**0.215**
12-DNB (SSTD)	4.133	20466	**151.925**

RED
12/30/2010

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\019.dat
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
User ID: red
Sample ID: 72412,871184,
Acquired: Dec 16, 2010 23:46:36
Data summary: {Data Description}



B Results

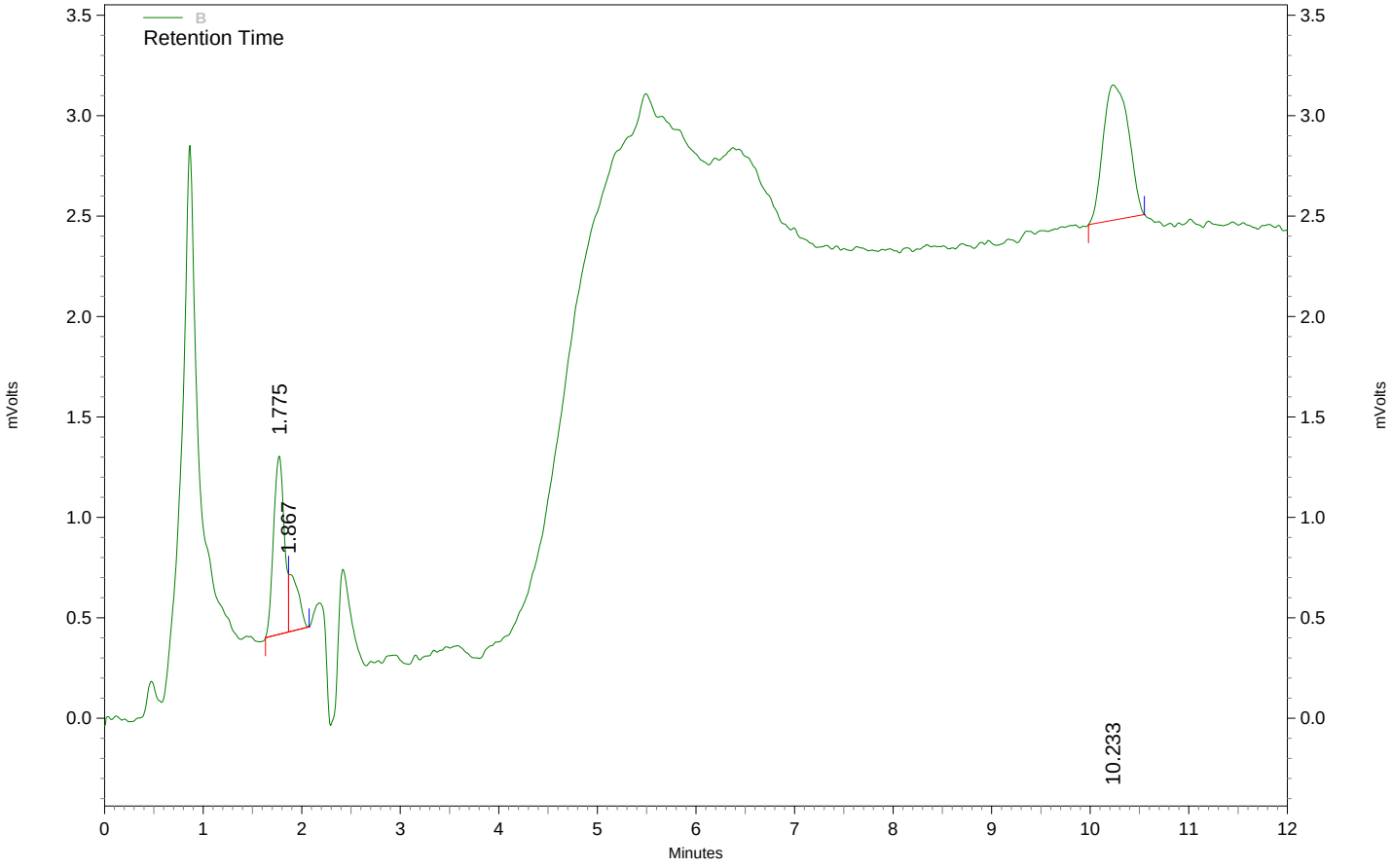
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.917	2455	**0.025**
12-DNB (SSTD)	10.249	18303	**130.252**

After Manual Integration

RED 12/30/2010 JJY 12/30/2010

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\020.dat
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
User ID: red
Sample ID: 72412,871186,
Acquired: Dec 17, 2010 00:00:57
Data summary: Reason #3 applies to data. A split was added to separate nitroguanidine (NQ) from the neighboring solven peak. RED 12/17/2010



B Results

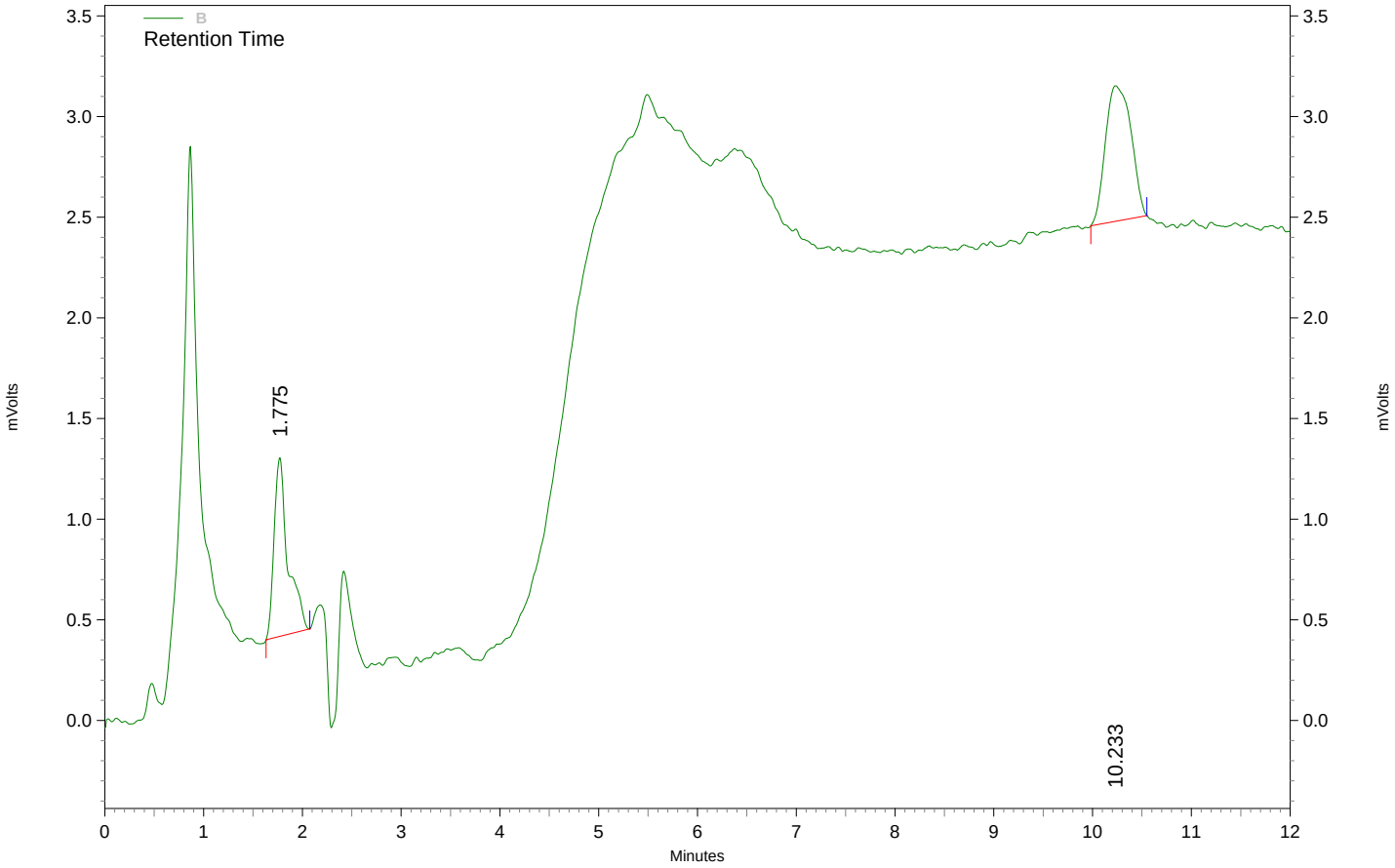
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.867	1949	**0.021**
12-DNB (SSTD)	10.233	12117	**85.929**

Before Manual Integration

RED 12/30/2010 JJY 12/30/2010

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\020.dat
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
User ID: red
Sample ID: 72412,871186,
Acquired: Dec 17, 2010 00:00:57
Data summary: {Data Description}



B Results

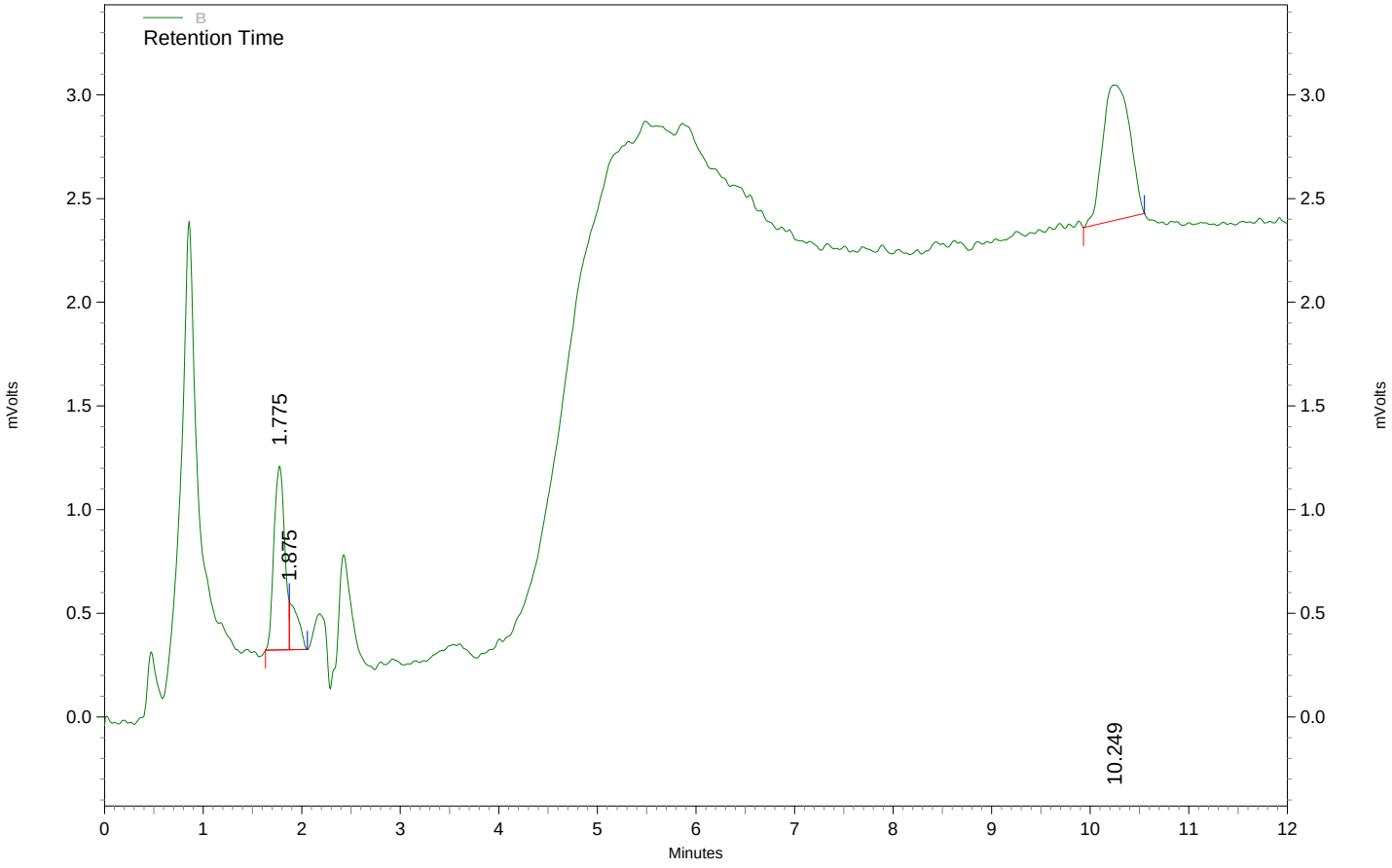
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.775	8650	**0.077**
12-DNB (SSTD)	10.233	12117	**85.929**

After Manual Integration

RED 12/30/2010 JJY 12/30/2010

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\022.dat
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
User ID: red
Sample ID: 72412,871197,
Acquired: Dec 17, 2010 00:29:34
Data summary: Reason #3 applies to data. A split was added to separate nitroguanidine (NQ) from the neighboring solven peak. RED 12/17/2010



B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.875	1421	**0.016**
12-DNB (SSTD)	10.249	12545	**88.995**

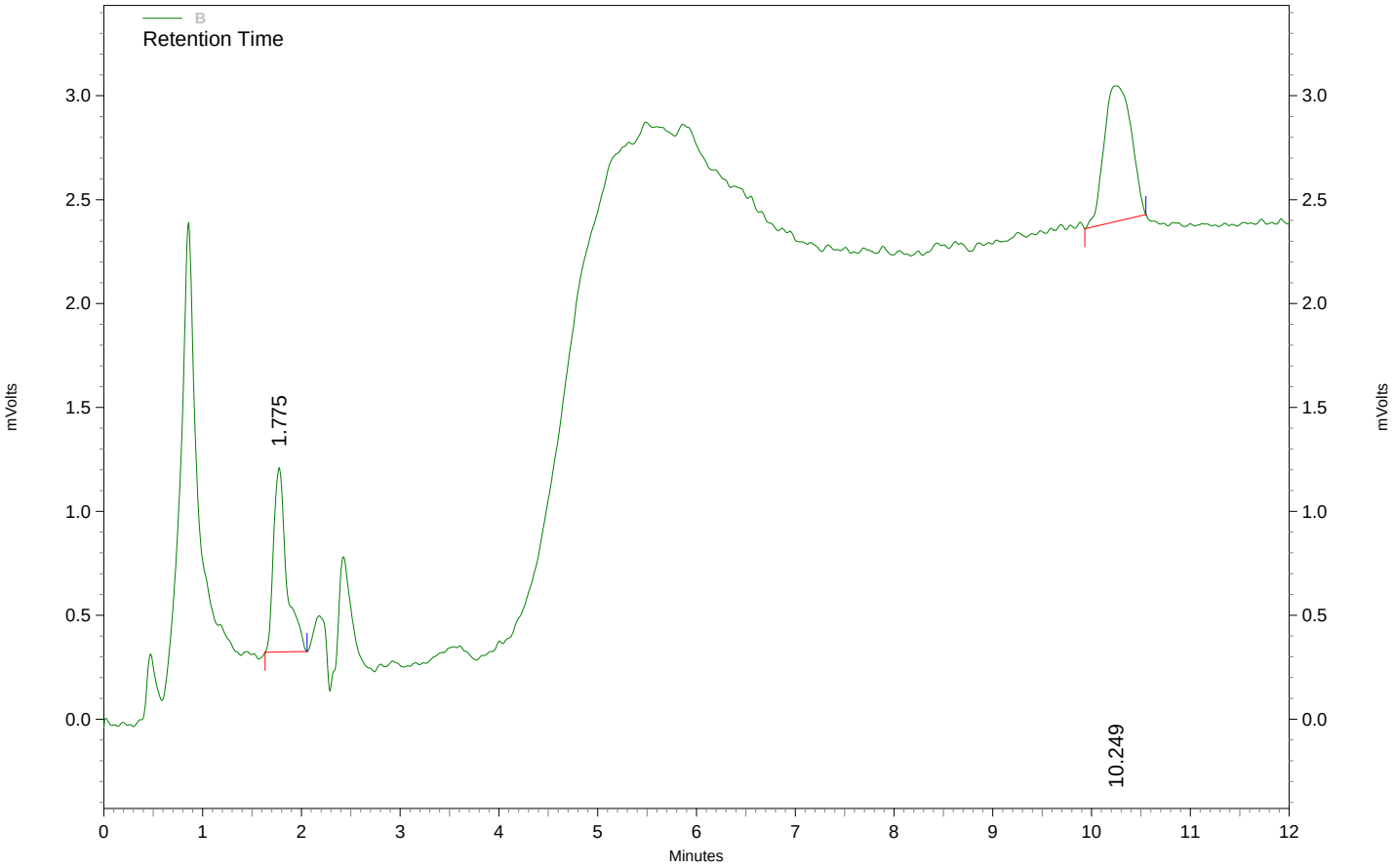
Before Manual Integration

JJY 12/30/2010

RED 12/30/2010

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\022.dat
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
User ID: red
Sample ID: 72412,871197,
Acquired: Dec 17, 2010 00:29:34
Data summary: {Data Description}

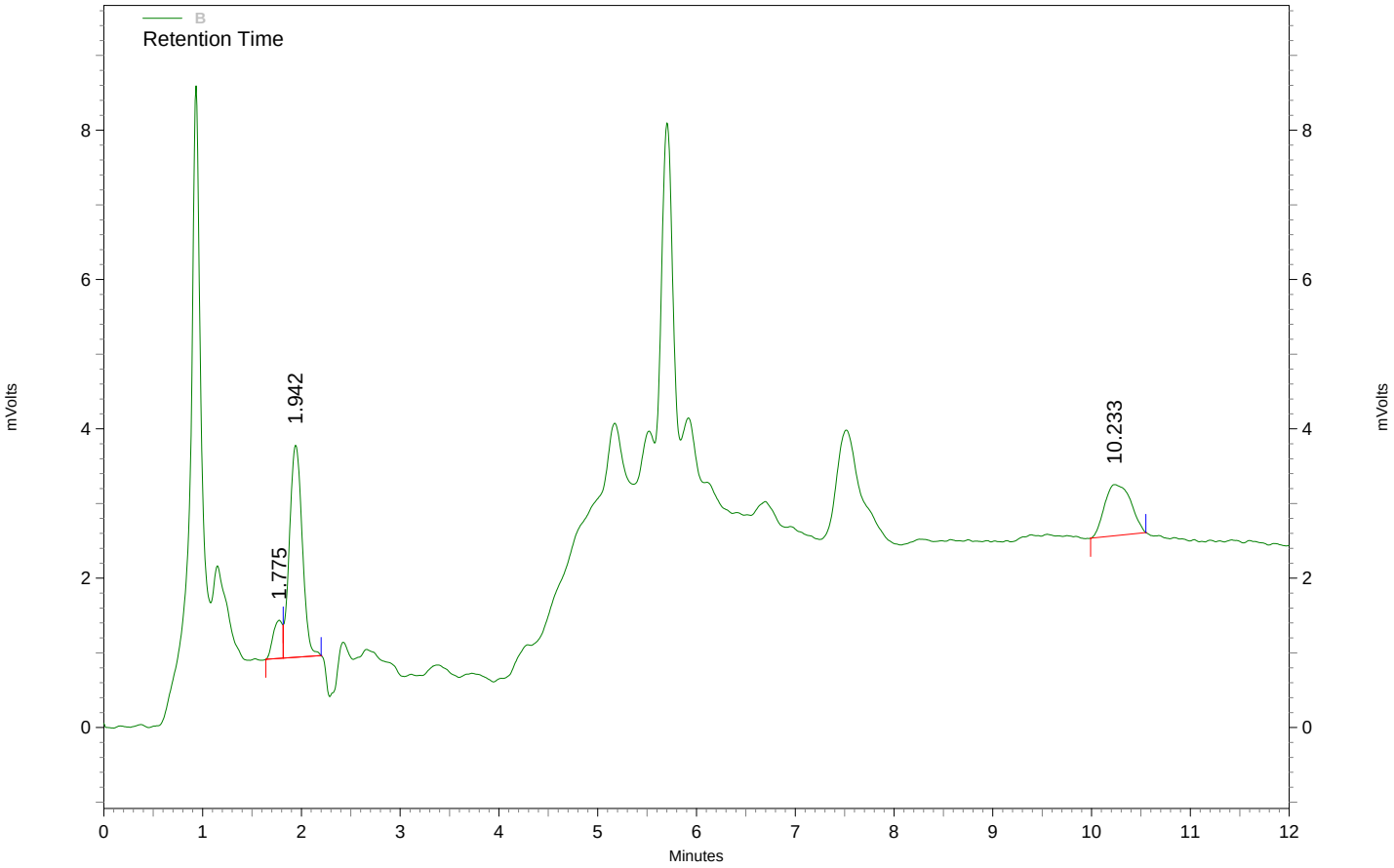


B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.775	8163	**0.073**
12-DNB (SSTD)	10.249	12545	**88.995**

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\023.dat
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
User ID: red
Sample ID: 72412,871198,
Acquired: Dec 17, 2010 00:43:51
Data summary: {Data Description}



B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.942	25565	**0.220**
12-DNB (SSTD)	10.233	12557	**89.081**

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\871184.D Vial: 8
Acq On : 2 Dec 10 9:06 pm Operator: RPN
Sample : 72180,871184,1 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 13 17:07:48 2010

JJY
01/05/11

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 14:33:20 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

M.I. Benzo(k)fluoranthene Reason #3

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.428	152	544751	20.00	ug/mL	0.00
21) Naphthalened8	6.070	136	2519780	20.00	ug/mL	0.00
39) Acenaphthened10	7.579	164	1299567	20.00	ug/mL	0.00
63) Phenanthrd10	8.471	188	1965471	20.00	ug/mL	0.00
75) Chrysene-d12	9.935	240	1808445	20.00	ug/mL	0.00
85) Perylene-d12	10.901	264	1588906	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	3.186	112	1057028	77.94	%REC	0.03
Spiked Amount 100.000	Range 20 - 110		Recovery = 77.94%			
7) SURRPhenol-d5	3.999	99	1349397	82.83	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 82.83%			
22) SURRNitrbenzened5	5.121	82	481401	79.17	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 79.17%			
44) SURR2Flbiphenyl	7.093	172	1396840	82.15	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 82.15%			
62) SURR246Tribrphenl	8.096	330	289547	73.69	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 73.69%			
78) SURRTerphenyl-d14	9.273	244	1164663	88.66	ug/mL	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 88.66%			
Target Compounds						Qvalue
6) bis2Clethletr	4.144	93	2381	0.0731	ug/mL	82
8) Phenol	4.007	94	15366	0.3827	ug/mL#	33
12) 12Diclbenz	4.624	146	5791	0.1422	ug/mL	90
13) Benzyl alcoho	4.556	108	4121	1.1227	ug/mL#	1
15) 2Methylphenol	4.724	108	1259	0.0410	ug/mL#	15
17) Acetophenone	4.908	105	24004	0.5239	ug/mL#	46
18) Hexaclethane	5.028	117	1443	0.1008	ug/mL#	10
19) N-Ntrsdinprop	4.968	70	6166	0.3007	ug/mL#	34
20) 3&4Methylphenol	4.931	108	2485	0.0812	ug/mL	74
24) Isophorone	5.508	82	3242	0.0473	ug/mL	58
27) bis2clethoxym	5.854	93	2440	0.0516	ug/mL#	1
30) Benzoic acid	5.826	105	4523	3.0871	ug/mL#	29
31) Naphthalene	6.093	128	273759	2.1288	ug/mL	98
32) 4-Cl-aniline	6.093	127	34739	0.7201	ug/mL#	40
33) 26Diclphenol	6.204	162	1868	0.0628	ug/mL#	36
36) 4Cl3methylphe	6.656	107	1706	0.0543	ug/mL#	19
37) 2Methylnaphth	6.781	141	287803	4.0093	ug/mL	98
38) 1Methylnaphth	6.866	141	230303	3.0911	ug/mL	98
45) 2Clnaphthalen	7.184	162	1812	0.0241	ug/mL#	43
46) 2Nitroaniline	7.284	65	4408	0.2515	ug/mL#	27
47) Acnaphthylene	7.480	152	65511	0.5094	ug/mL	84
48) Dimethylphtha	7.394	163	2072	0.0235	ug/mL	69
49) 26Dinitrotolu	7.463	165	1841	0.0965	ug/mL	89
50) Acenaphthene	7.599	153	12414	0.1535	ug/mL	92
51) 3Nitroaniline	7.576	138	6441	0.3154	ug/mL#	32
52) 24Dinitphenol	7.596	184	459	2.4119	ug/mL#	1
53) Dibenzofuran	7.716	168	75993	0.7223	ug/mL	95
54) 24Dinitrotolu	7.716	165	4438	0.1879	ug/mL	97
55) 4-Nitrophenol	7.687	109	1904	0.2909	ug/mL#	40
58) Fluorene	7.940	166	20984	0.2473	ug/mL	85
60) Diethylphthal	7.863	149	28740	0.3228	ug/mL	96
61) 4Nitroaniline	7.968	138	2225	0.1110	ug/mL#	36
64) 46Dinit2mylph	8.111	198	2070	0.1453	ug/mL#	1
65) Ntrsdiphlam&Diphlam	8.011	169	32522	0.5571	ug/mL#	25

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\871184.D Vial: 8
Acq On : 2 Dec 10 9:06 pm Operator: RPN
Sample : 72180,871184,1 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 13 17:07:48 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 14:33:20 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

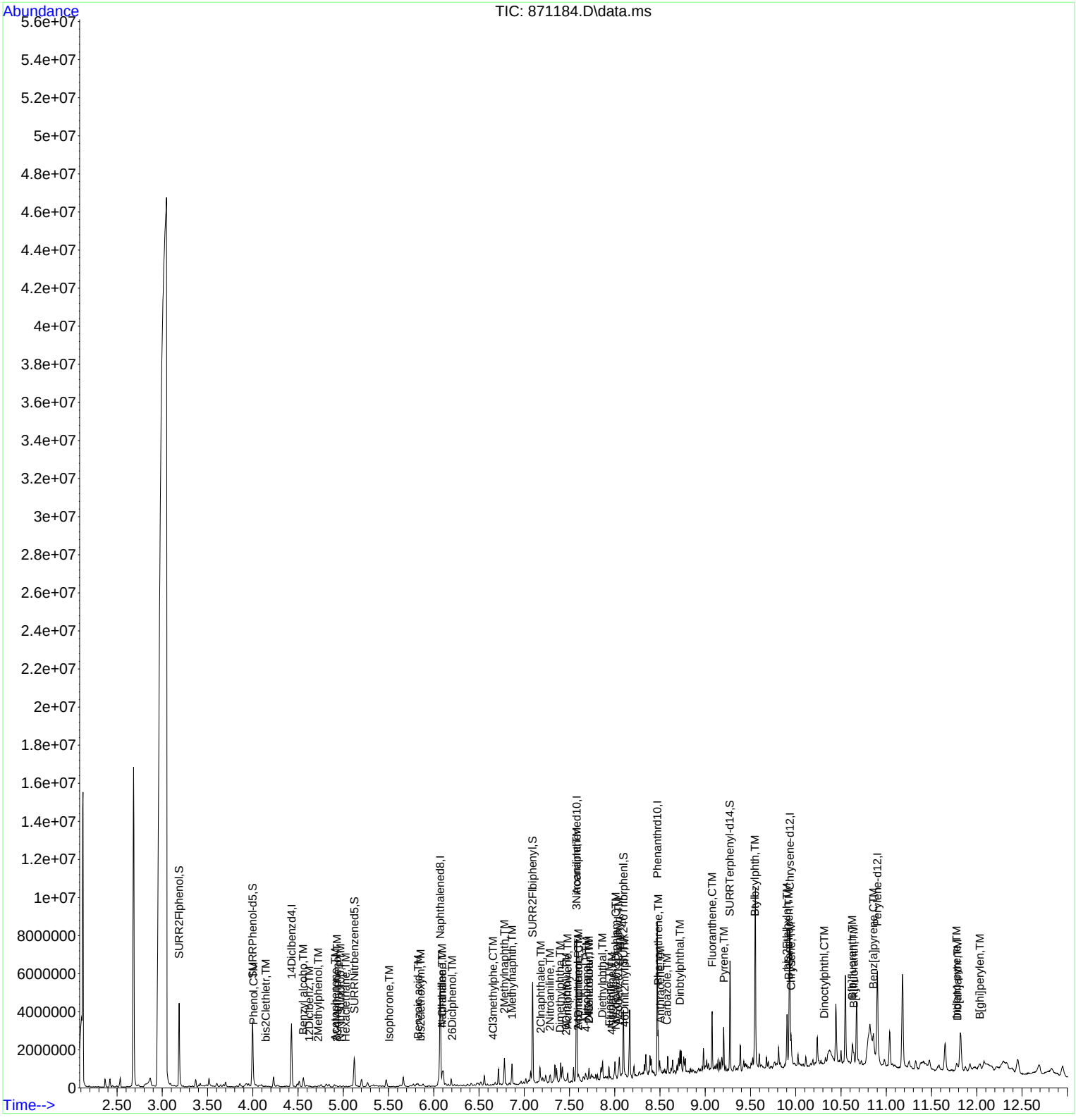
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
66) Azobenz&12Diphlhyd	8.039	182	71767	3.2540 ug/mL#	1
70) Phenanthrene	8.480	178	431779	4.1430 ug/mL	98
71) Anthracene	8.505	178	93138	0.8815 ug/mL	97
72) Carbazole	8.577	167	19181	0.2143 ug/mL	95
73) Dinbtylphthal	8.721	149	155963	1.2905 ug/mL	96
74) Fluoranthene	9.077	202	758909	7.2162 ug/mL	98
76) Benzidine	9.099	184	6351	Below Cal #	1
77) Pyrene	9.204	202	621439	5.7624 ug/mL	97
79) Btylbzylphth	9.548	149	12926	0.2465 ug/mL	68
80) 33Diclbnzidin	9.952	252	5744	Below Cal	73
81) B[a]anthracen	9.923	228	354895	3.5287 ug/mL	91
82) Chrysene	9.949	228	329395	3.4183 ug/mL	97
83) bis2Ethlhxlph	9.903	149	589678	7.7375 ug/mL	98
84) Dinoctylphthl	10.315	149	6275	0.0463 ug/mL	75
86) B[b]fluoranth	10.625	252	360693	3.8539 ug/mL	94
87) B[k]fluoranth	10.642	252	146468m	1.6568 ug/mL	
88) Benz[a]pyrene	10.858	252	227669	2.6652 ug/mL	96
89) Indeno-pyrene	11.776	276	124378	1.4339 ug/mL	95
90) Dib[ah]anthr	11.787	278	30154	0.4285 ug/mL	91
91) B[ghi]perylen	12.035	276	115261	1.5998 ug/mL	96

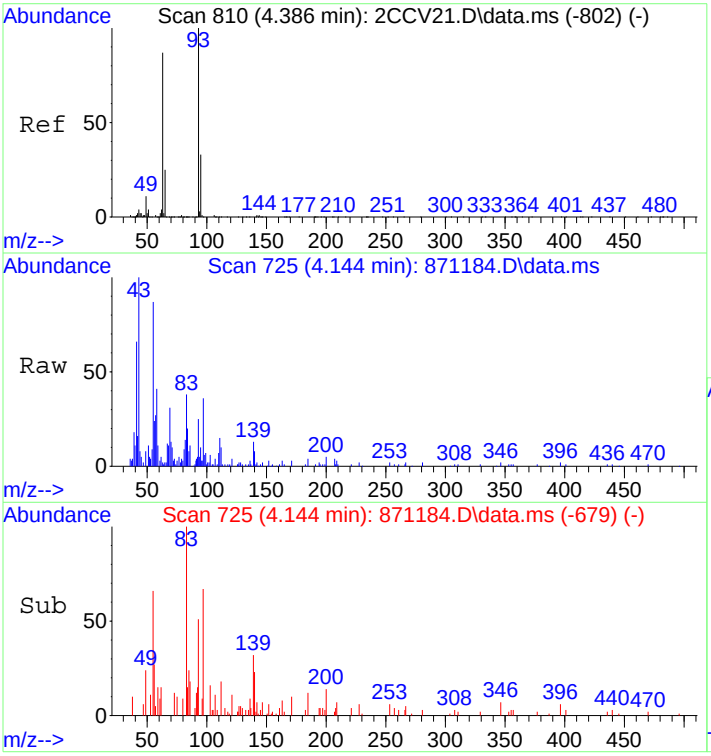
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\871184.D Vial: 8
Acq On : 2 Dec 10 9:06 pm Operator: RPN
Sample : 72180,871184,1 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 13 17:07:48 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 14:33:20 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

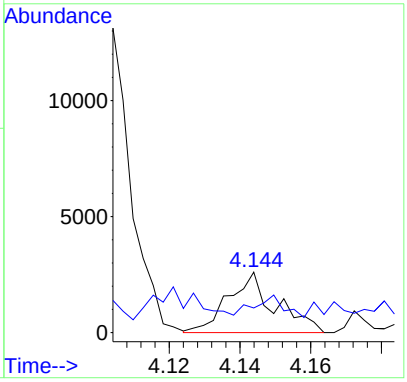


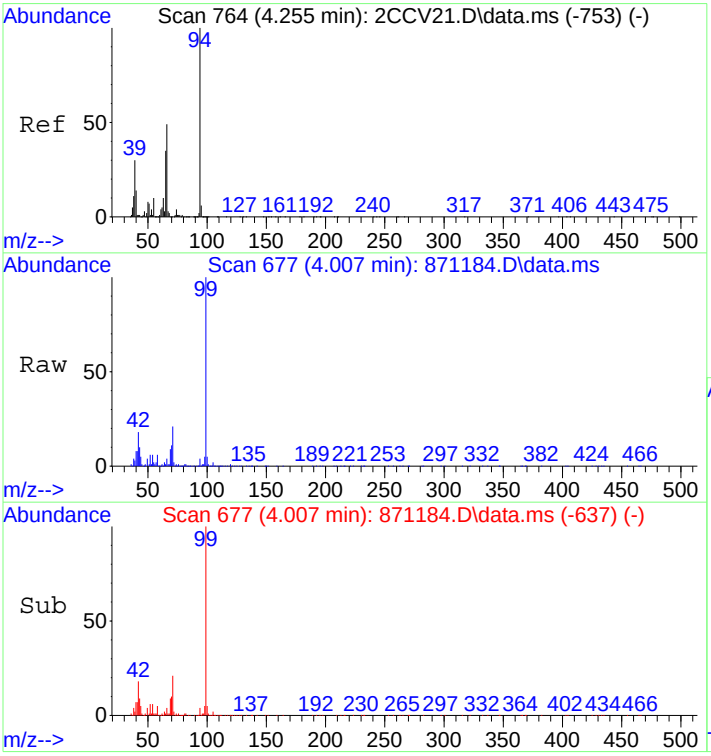


#6
bis2Clethletr
Concen: 0.07 ug/mL
RT: 4.144 min Scan# 725
Delta R.T. 0.017 min
Lab File: 871184.D
Acq: 2 Dec 10 9:06 pm

Tgt Ion: 93 Resp: 2381

Ion	Ratio	Lower	Upper
93	100		
95	22.0	2.4	62.4

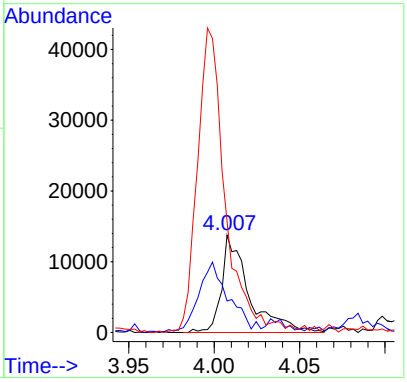


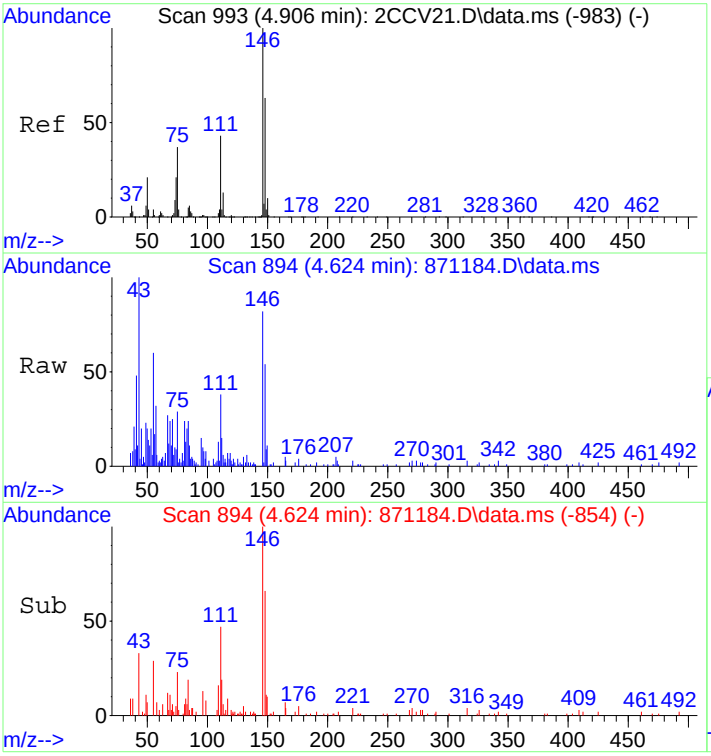


#8
Phenol
Concen: 0.38 ug/mL
RT: 4.007 min Scan# 677
Delta R.T. -0.000 min
Lab File: 871184.D
Acq: 2 Dec 10 9:06 pm

Tgt Ion: 94 Resp: 15366

Ion	Ratio	Lower	Upper
94	100		
65	30.8	1.0	61.0
66	110.9	8.1	68.1#

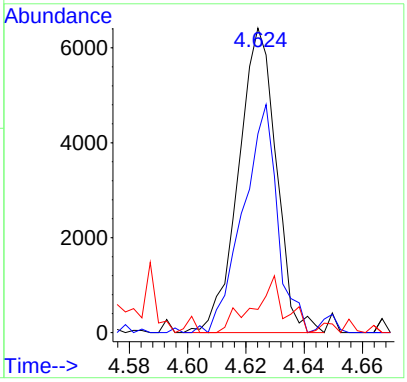


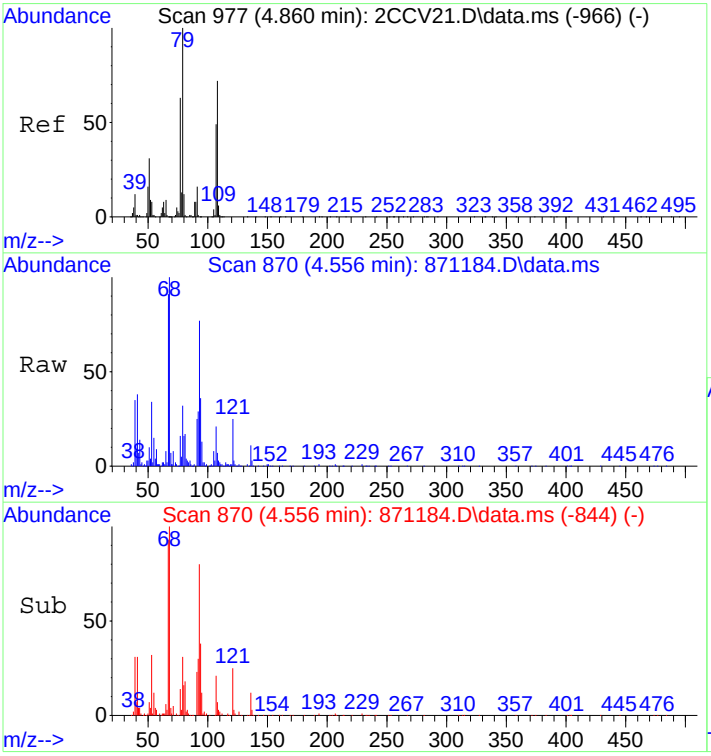


#12
12Diclbenz
Concen: 0.14 ug/mL
RT: 4.624 min Scan# 894
Delta R.T. -0.000 min
Lab File: 871184.D
Acq: 2 Dec 10 9:06 pm

Tgt Ion:146 Resp: 5791

Ion	Ratio	Lower	Upper
146	100		
148	65.3	29.2	89.2
113	6.4	0.0	42.9

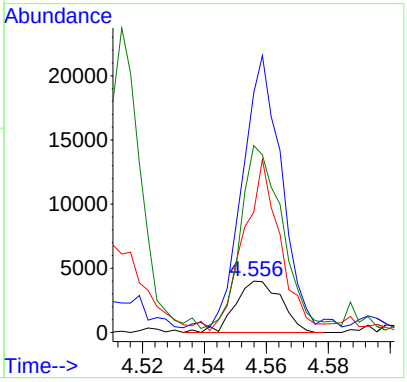


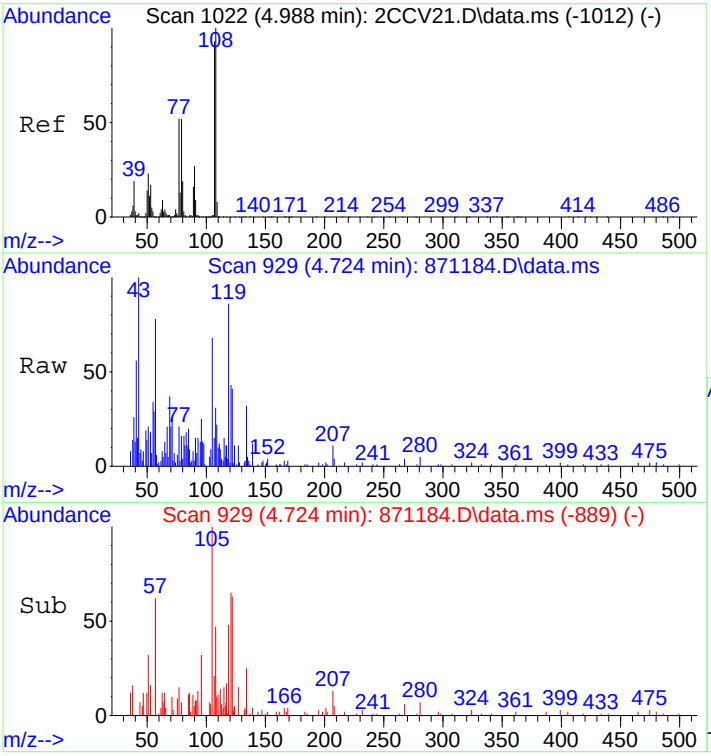


#13
Benzyl alcoho
Concen: 1.12 ug/mL
RT: 4.556 min Scan# 870
Delta R.T. -0.040 min
Lab File: 871184.D
Acq: 2 Dec 10 9:06 pm

Tgt Ion:108 Resp: 4121

Ion	Ratio	Lower	Upper
108	100		
79	457.7	104.2	164.2#
77	219.5	55.1	115.1#
91	346.2	0.0	50.3#

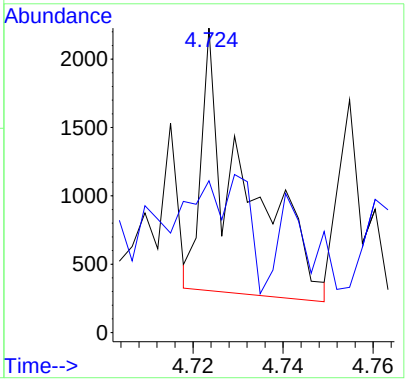


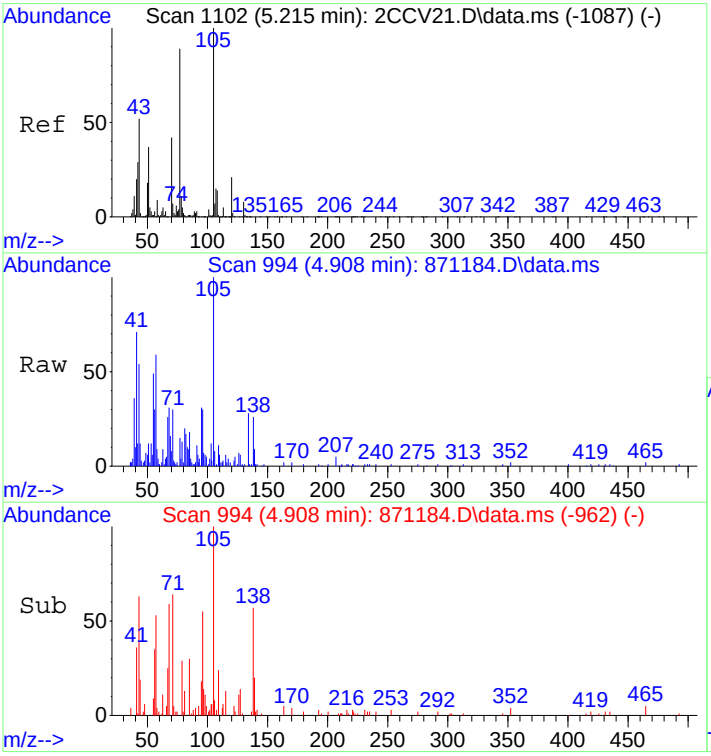


#15
2Methylphenol
Concen: 0.04 ug/mL
RT: 4.724 min Scan# 929
Delta R.T. -0.000 min
Lab File: 871184.D
Acq: 2 Dec 10 9:06 pm

Tgt Ion:108 Resp: 1259

Ion	Ratio	Lower	Upper
108	100		
107	8.2	57.3	117.3#

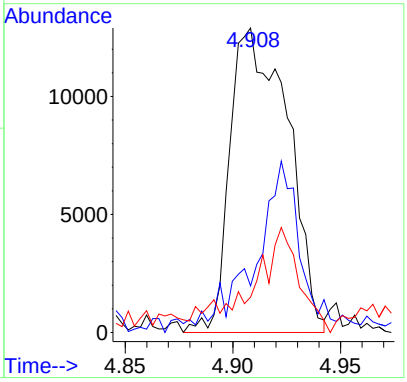


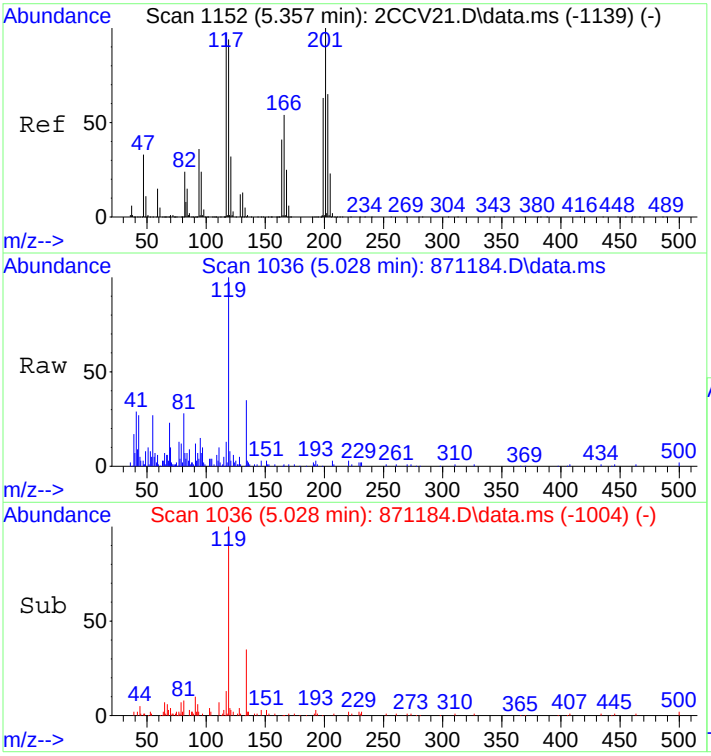


#17
Acetophenone
Concen: 0.52 ug/mL
RT: 4.908 min Scan# 994
Delta R.T. -0.023 min
Lab File: 871184.D
Acq: 2 Dec 10 9:06 pm

Tgt Ion:105 Resp: 24004

Ion	Ratio	Lower	Upper
105	100		
77	38.8	72.2	132.2#
51	23.7	18.8	78.8

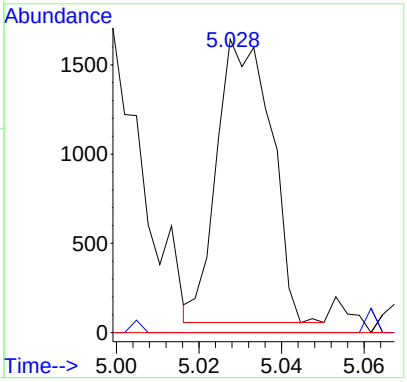


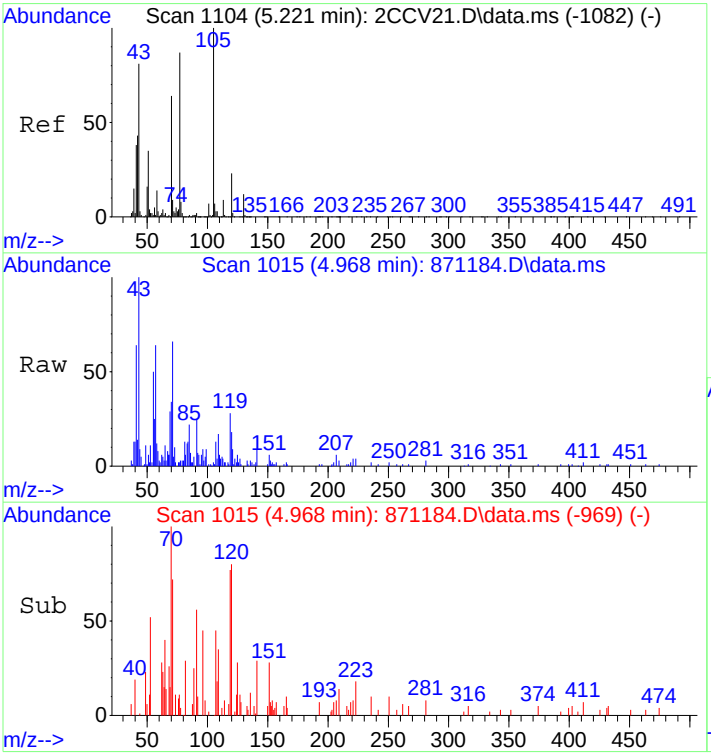


#18
Hexaclethane
Concen: 0.10 ug/mL
RT: 5.028 min Scan# 1036
Delta R.T. -0.023 min
Lab File: 871184.D
Acq: 2 Dec 10 9:06 pm

Tgt Ion:117 Resp: 1443

Ion	Ratio	Lower	Upper
117	100		
201	0.0	64.1	124.1#
199	0.0	28.3	88.3#

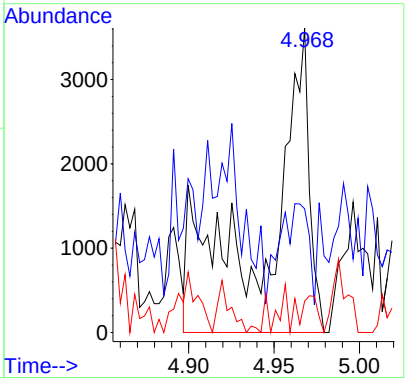


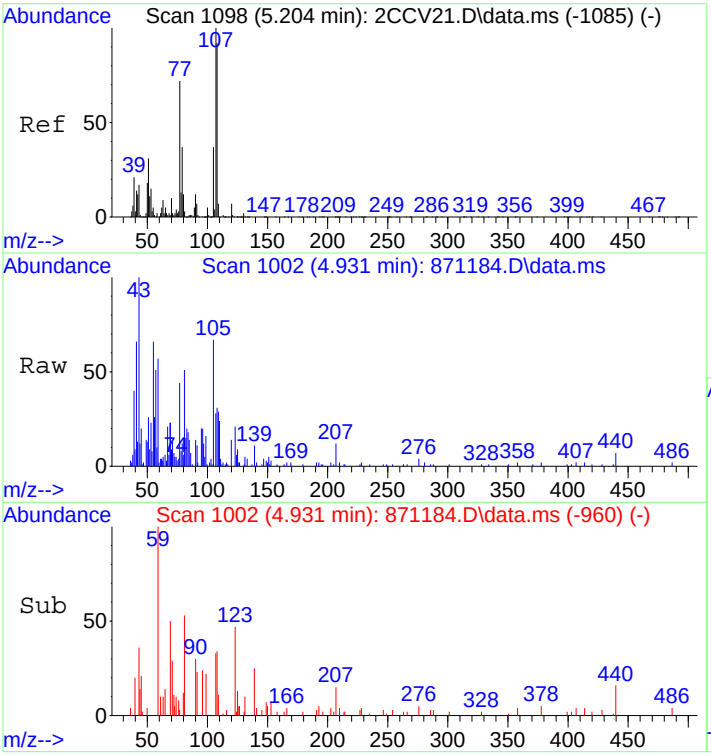


#19
N-Ntrsdinprop
Concen: 0.30 ug/mL
RT: 4.968 min Scan# 1015
Delta R.T. 0.031 min
Lab File: 871184.D
Acq: 2 Dec 10 9:06 pm

Tgt Ion: 70 Resp: 6166

Ion	Ratio	Lower	Upper
70	100		
42	15.4	54.3	114.3#
113	10.3	0.0	43.5

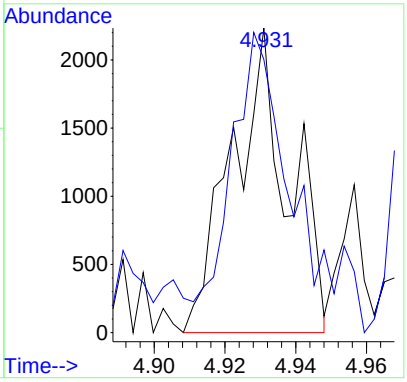


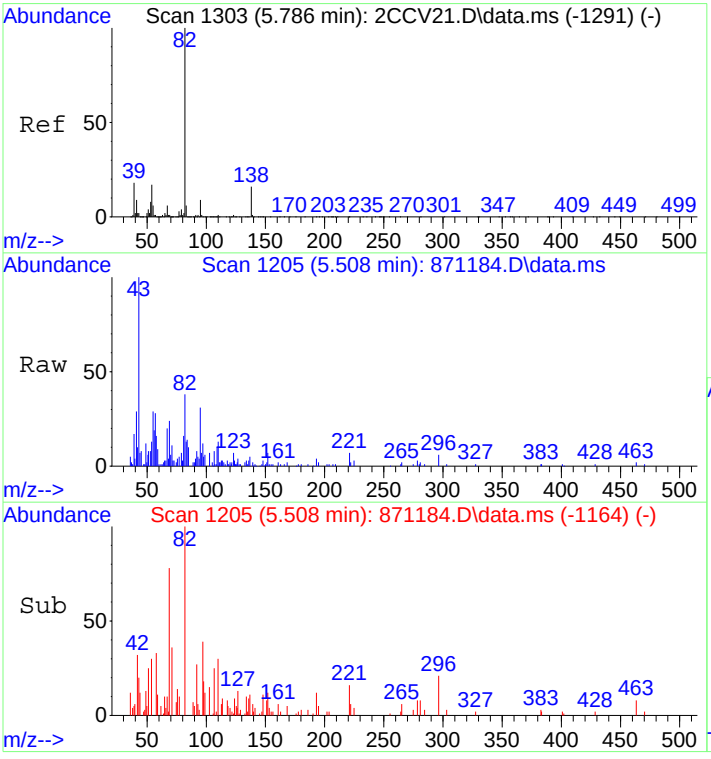


#20
3&4Methylphenol
Concen: 0.08 ug/mL
RT: 4.931 min Scan# 1002
Delta R.T. -0.000 min
Lab File: 871184.D
Acq: 2 Dec 10 9:06 pm

Tgt Ion:108 Resp: 2485

Ion	Ratio	Lower	Upper
108	100		
107	78.4	74.6	134.6

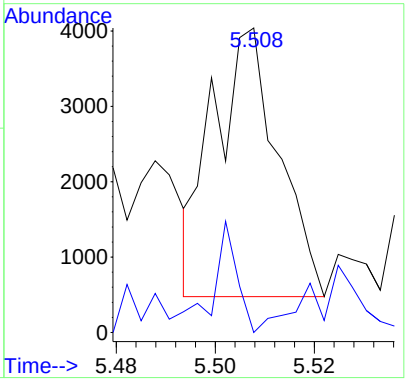


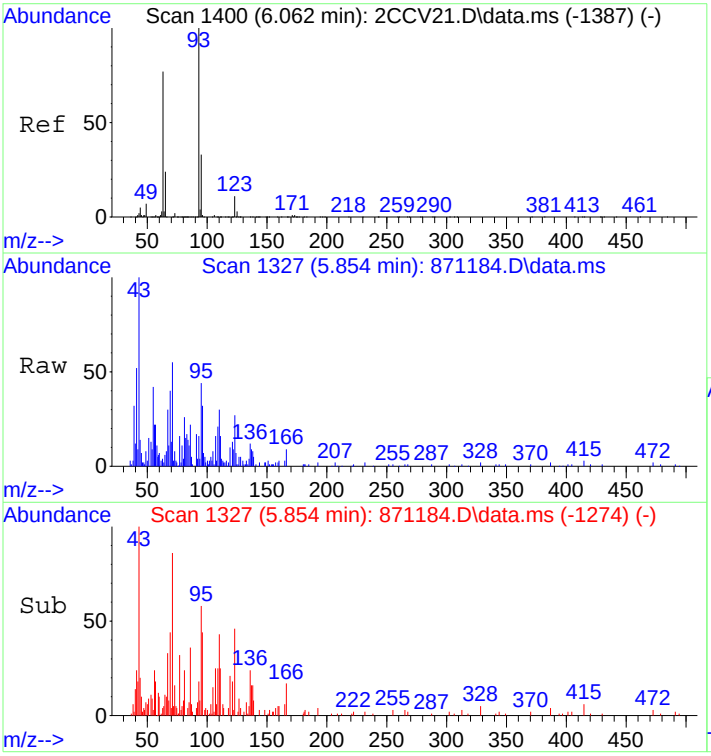


#24
Isophorone
Concen: 0.05 ug/mL
RT: 5.508 min Scan# 1205
Delta R.T. -0.003 min
Lab File: 871184.D
Acq: 2 Dec 10 9:06 pm

Tgt Ion: 82 Resp: 3242

Ion	Ratio	Lower	Upper
82	100		
138	0.0	0.0	48.8

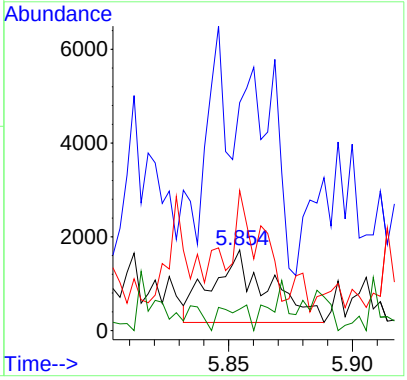


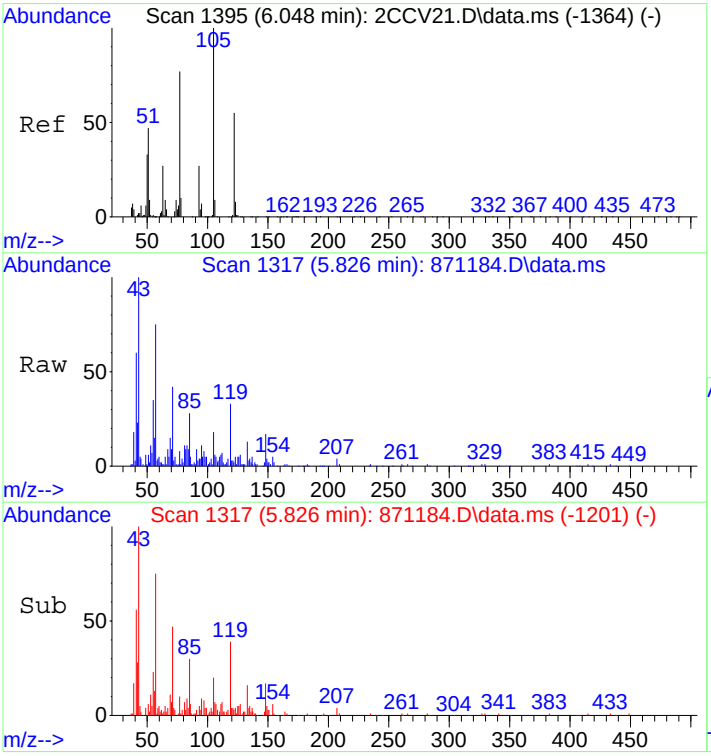


#27
bis2clethoxym
Concen: 0.05 ug/mL
RT: 5.854 min Scan# 1327
Delta R.T. 0.037 min
Lab File: 871184.D
Acq: 2 Dec 10 9:06 pm

Tgt Ion: 93 Resp: 2440

Ion	Ratio	Lower	Upper
93	100		
95	152.7	1.9	61.9#
123	181.2	0.0	42.6#
63	23.2	46.9	106.9#

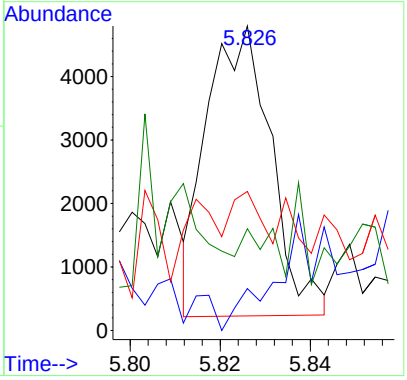


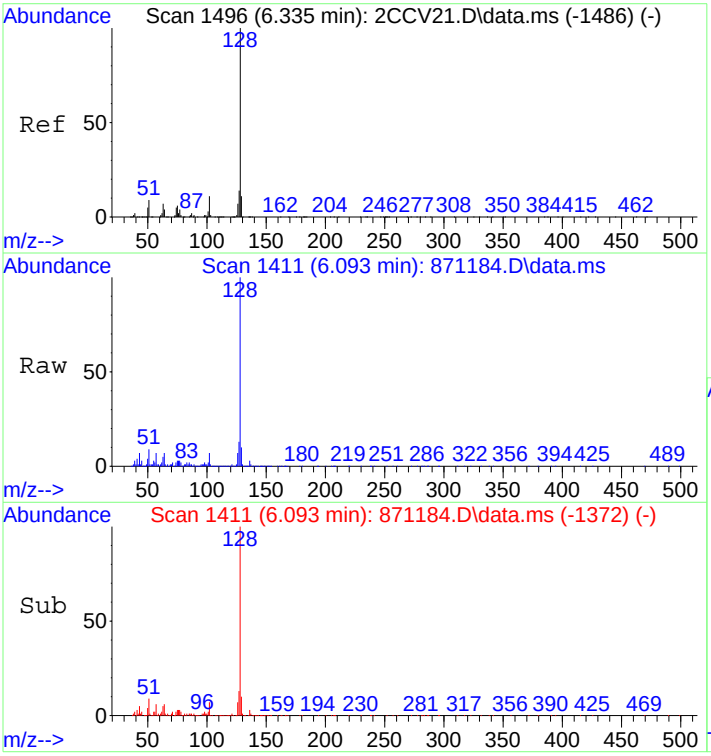


#30
Benzoic acid
Concen: 3.09 ug/mL
RT: 5.826 min Scan# 1317
Delta R.T. 0.056 min
Lab File: 871184.D
Acq: 2 Dec 10 9:06 pm

Tgt Ion:105 Resp: 4523

Ion	Ratio	Lower	Upper
105	100		
122	13.3	54.1	114.1#
77	14.9	45.9	105.9#
51	7.4	17.6	77.6#

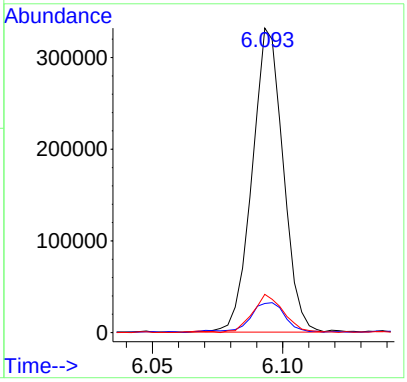


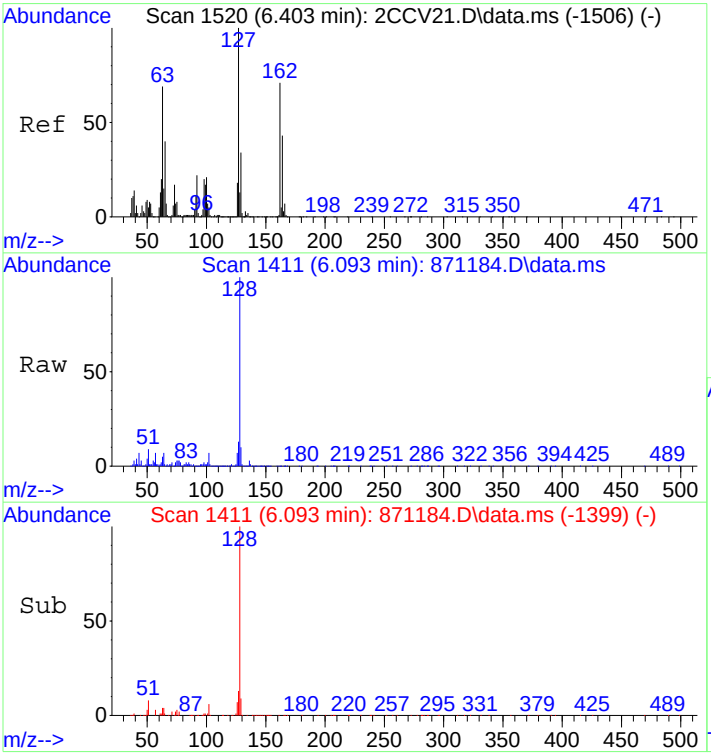


#31
Naphthalene
Concen: 2.13 ug/mL
RT: 6.093 min Scan# 1411
Delta R.T. -0.003 min
Lab File: 871184.D
Acq: 2 Dec 10 9:06 pm

Tgt Ion:128 Resp: 273759

Ion	Ratio	Lower	Upper
128	100		
129	9.5	0.0	40.3
127	12.4	0.0	41.9

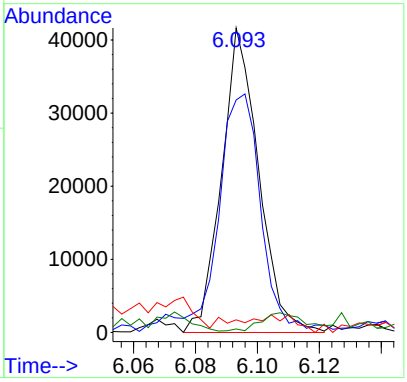


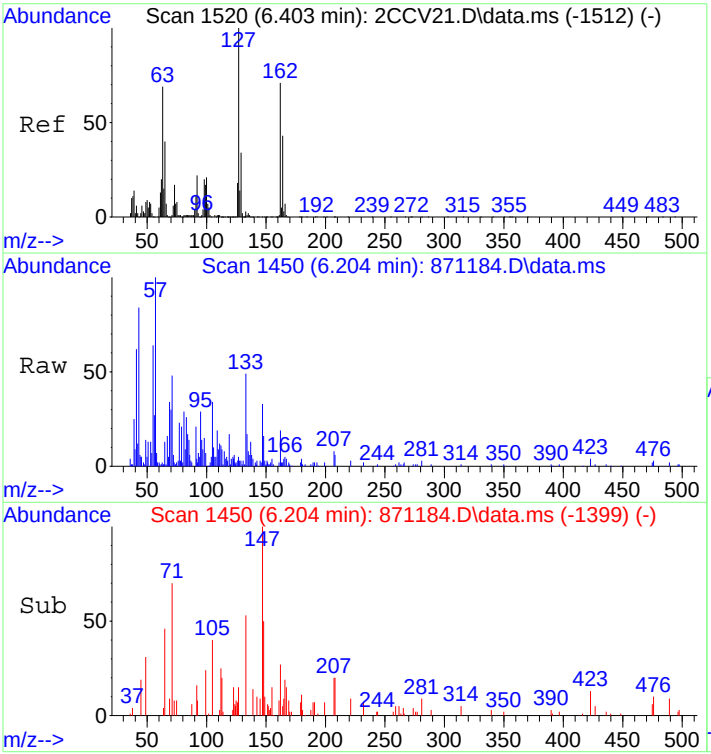


#32
4-Cl-aniline
Concen: 0.72 ug/mL
RT: 6.093 min Scan# 1411
Delta R.T. -0.080 min
Lab File: 871184.D
Acq: 2 Dec 10 9:06 pm

Tgt Ion:127 Resp: 34739

Ion	Ratio	Lower	Upper
127	100		
129	74.0	1.8	61.8#
65	1.4	1.6	61.6#
92	0.0	0.0	48.2

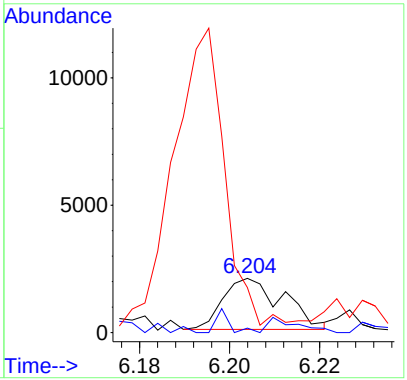


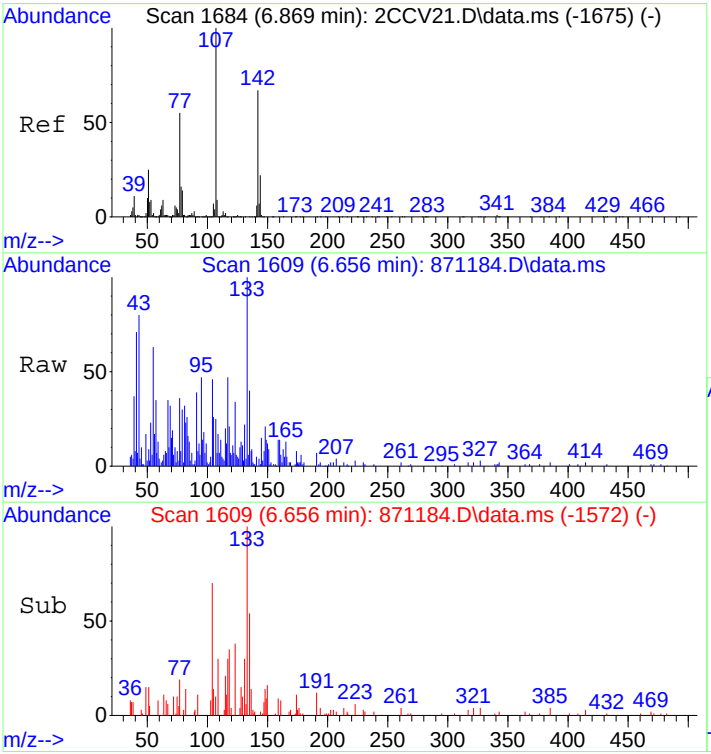


#33
26Diclphenol
Concen: 0.06 ug/mL
RT: 6.204 min Scan# 1450
Delta R.T. 0.031 min
Lab File: 871184.D
Acq: 2 Dec 10 9:06 pm

Tgt Ion:162 Resp: 1868

Ion	Ratio	Lower	Upper
162	100		
164	0.4	36.5	96.5#
98	36.9	0.0	57.1

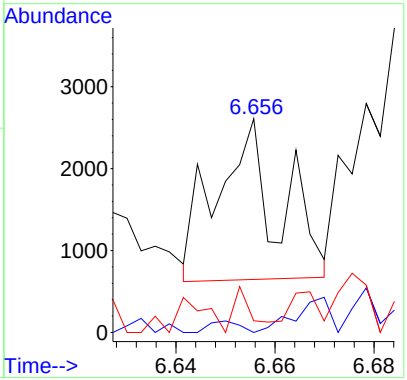


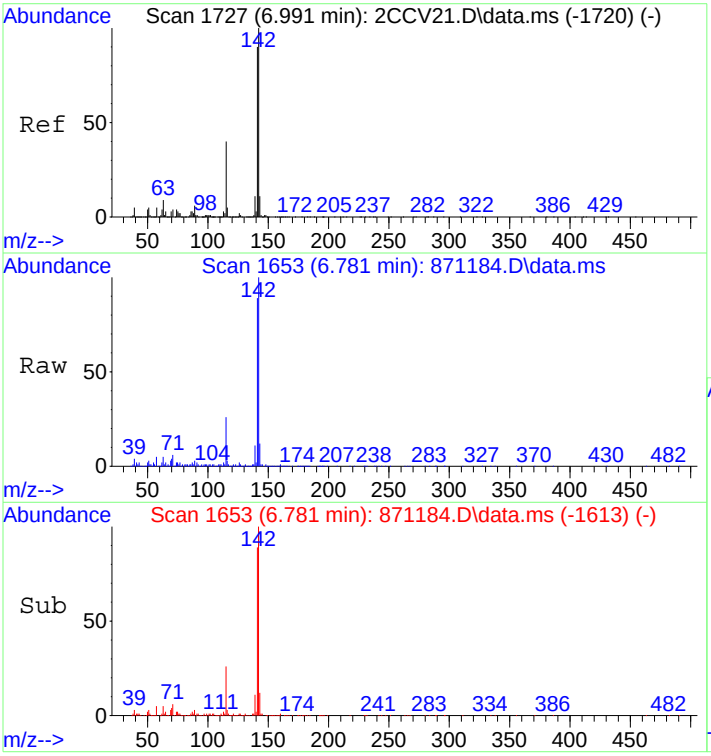


#36
4Cl3methylphe
Concen: 0.05 ug/mL
RT: 6.656 min Scan# 1609
Delta R.T. -0.009 min
Lab File: 871184.D
Acq: 2 Dec 10 9:06 pm

Tgt Ion:107 Resp: 1706

Ion	Ratio	Lower	Upper
107	100		
142	0.0	50.0	110.0#
144	0.2	0.0	56.8

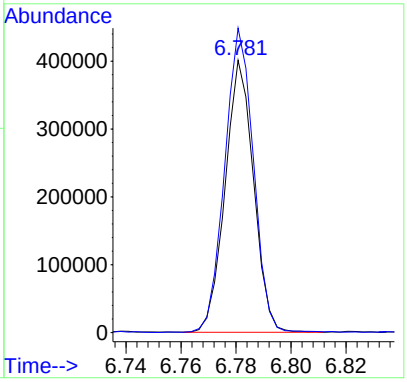


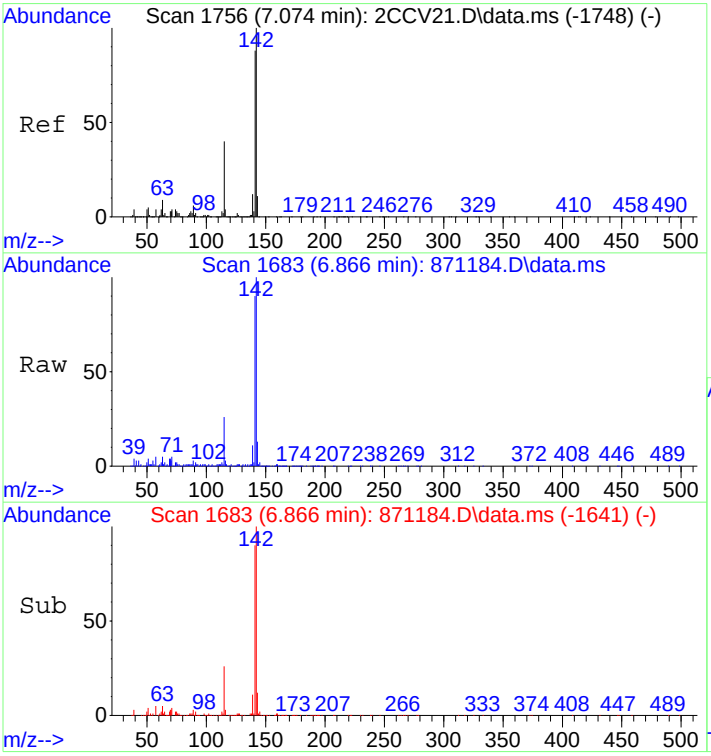


#37
2Methylnaphth
Concen: 4.01 ug/mL
RT: 6.781 min Scan# 1653
Delta R.T. -0.000 min
Lab File: 871184.D
Acq: 2 Dec 10 9:06 pm

Tgt Ion:141 Resp: 287803

Ion	Ratio	Lower	Upper
141	100		
142	111.8	83.7	143.7

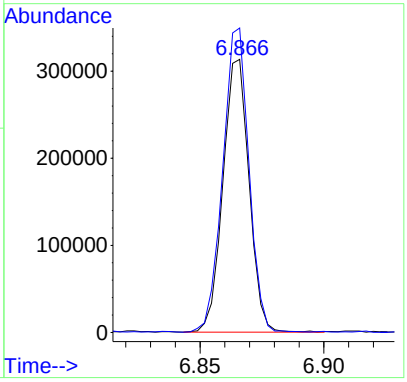


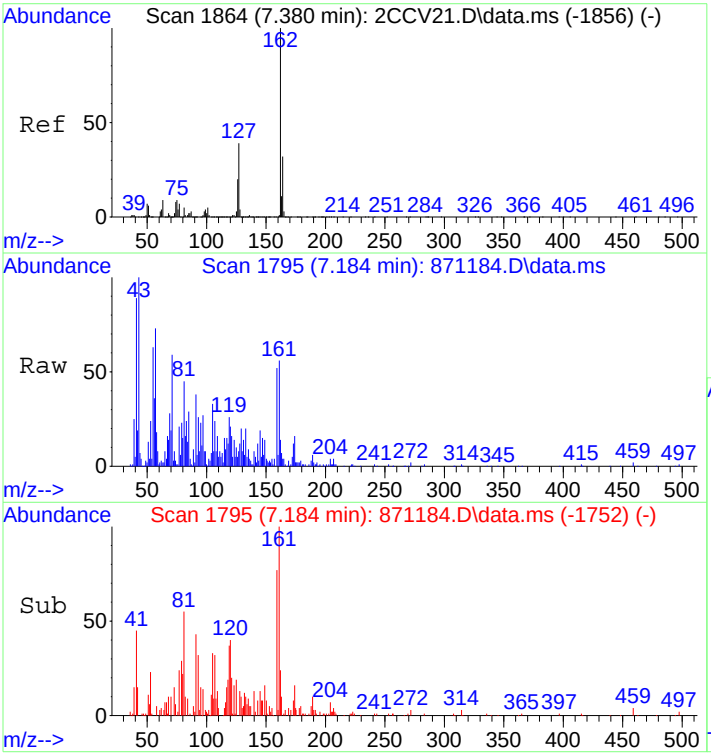


#38
1Methylnaphth
Concen: 3.09 ug/mL
RT: 6.866 min Scan# 1683
Delta R.T. -0.000 min
Lab File: 871184.D
Acq: 2 Dec 10 9:06 pm

Tgt Ion:141 Resp: 230303

Ion	Ratio	Lower	Upper
141	100		
142	111.5	79.5	139.5

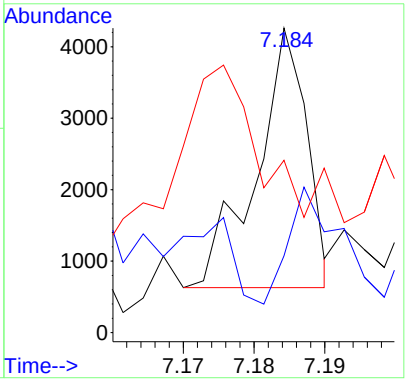


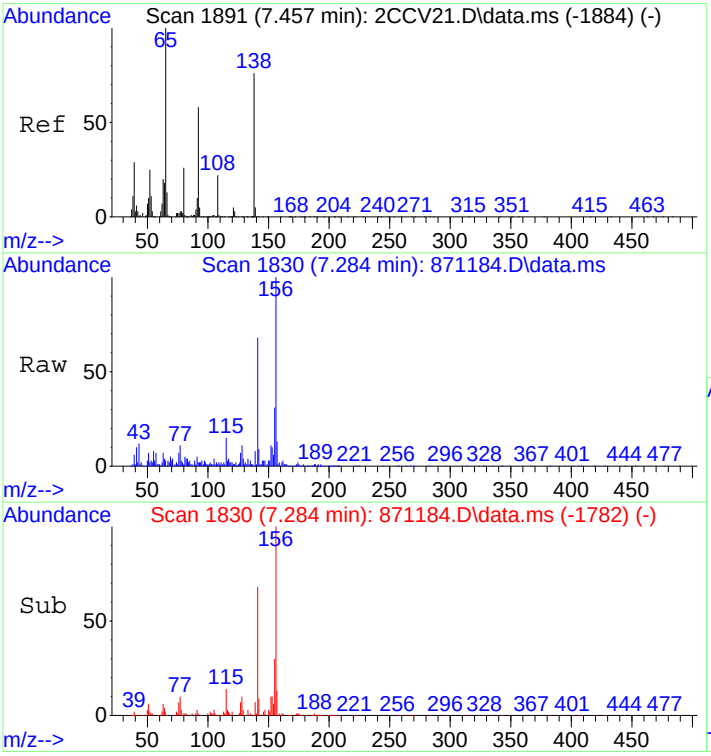


#45
2Clnaphthalen
Concen: 0.02 ug/mL
RT: 7.184 min Scan# 1795
Delta R.T. 0.008 min
Lab File: 871184.D
Acq: 2 Dec 10 9:06 pm

Tgt Ion:162 Resp: 1812

Ion	Ratio	Lower	Upper
162	100		
164	0.0	2.5	62.5#
127	3.0	7.1	67.1#

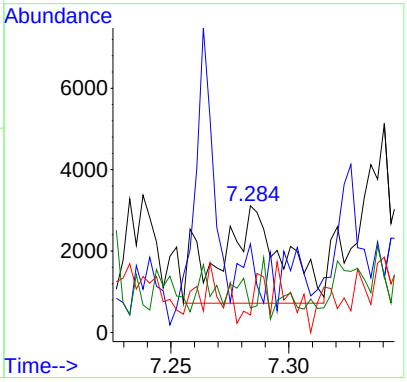


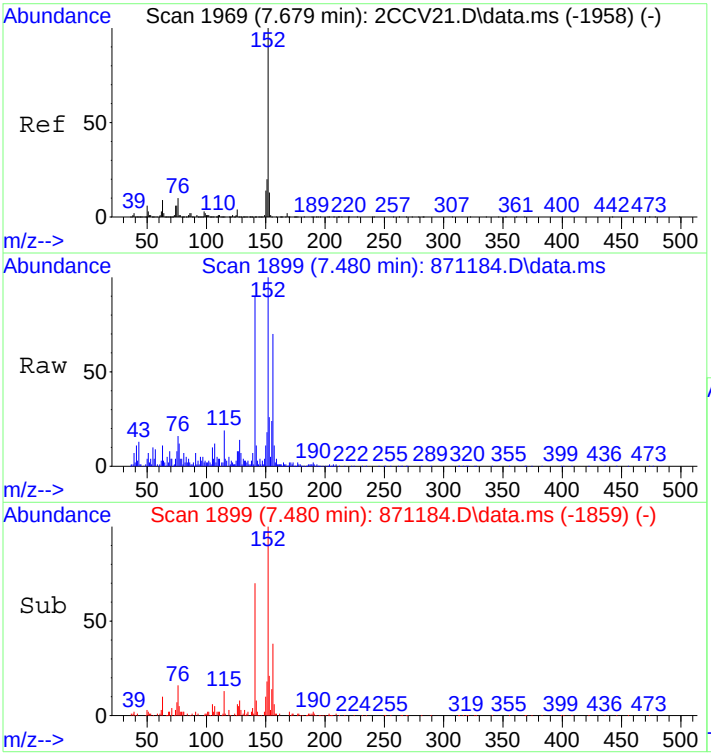


#46
2Nitroaniline
Concen: 0.25 ug/mL
RT: 7.284 min Scan# 1830
Delta R.T. 0.023 min
Lab File: 871184.D
Acq: 2 Dec 10 9:06 pm

Tgt Ion: 65 Resp: 4408

Ion	Ratio	Lower	Upper
65	100		
92	34.6	32.1	92.1
138	0.0	73.8	133.8#
80	0.0	0.0	55.1

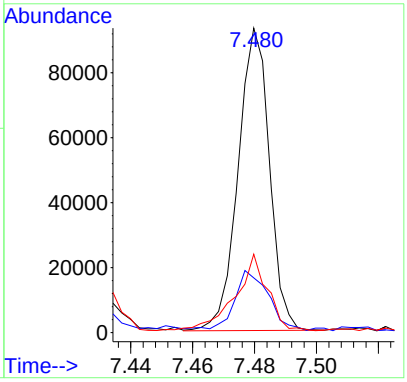


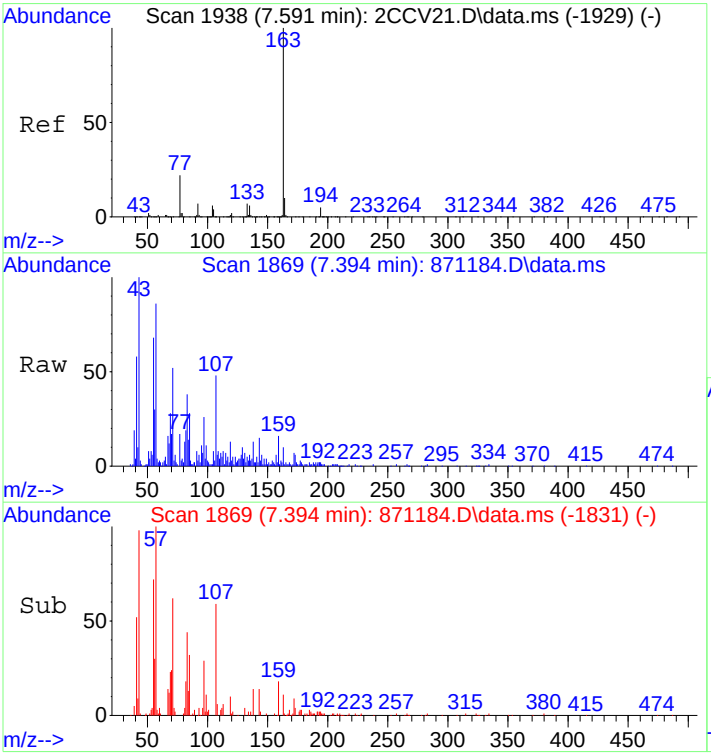


#47
Acnaphthylene
Concen: 0.51 ug/mL
RT: 7.480 min Scan# 1899
Delta R.T. -0.000 min
Lab File: 871184.D
Acq: 2 Dec 10 9:06 pm

Tgt Ion:152 Resp: 65511

Ion	Ratio	Lower	Upper
152	100		
151	16.8	0.0	49.5
153	25.0	0.0	43.0

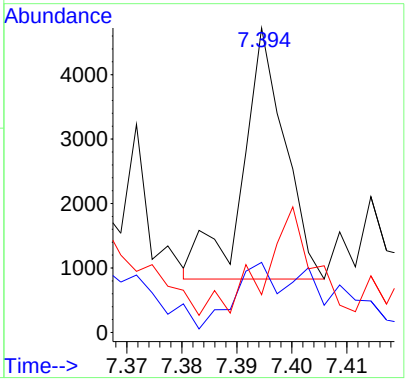


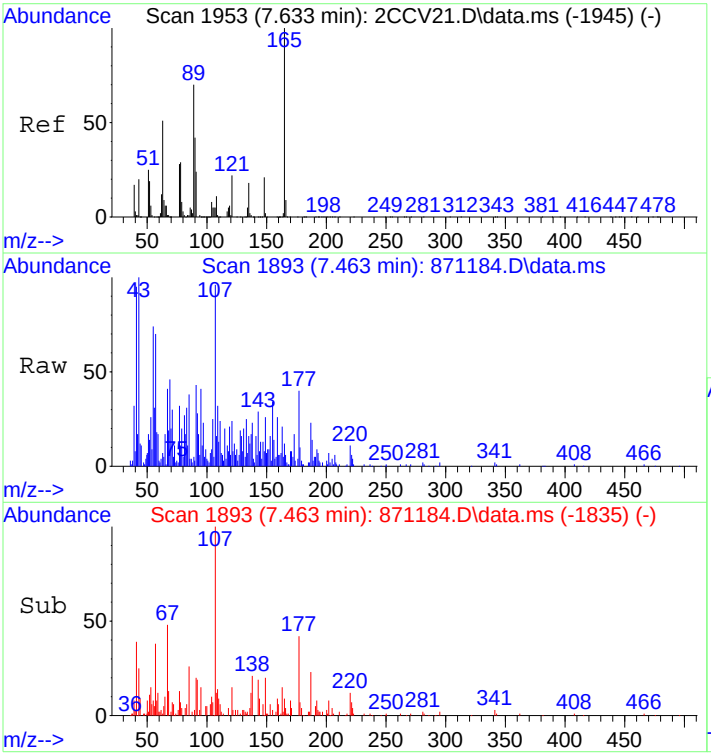


#48
Dimethylphtha
Concen: 0.02 ug/mL
RT: 7.394 min Scan# 1869
Delta R.T. -0.006 min
Lab File: 871184.D
Acq: 2 Dec 10 9:06 pm

Tgt Ion:163 Resp: 2072

Ion	Ratio	Lower	Upper
163	100		
194	17.1	0.0	34.0
164	0.0	0.0	40.3

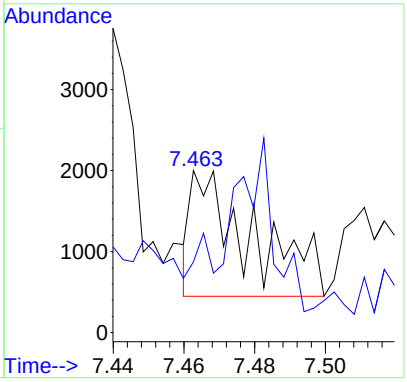


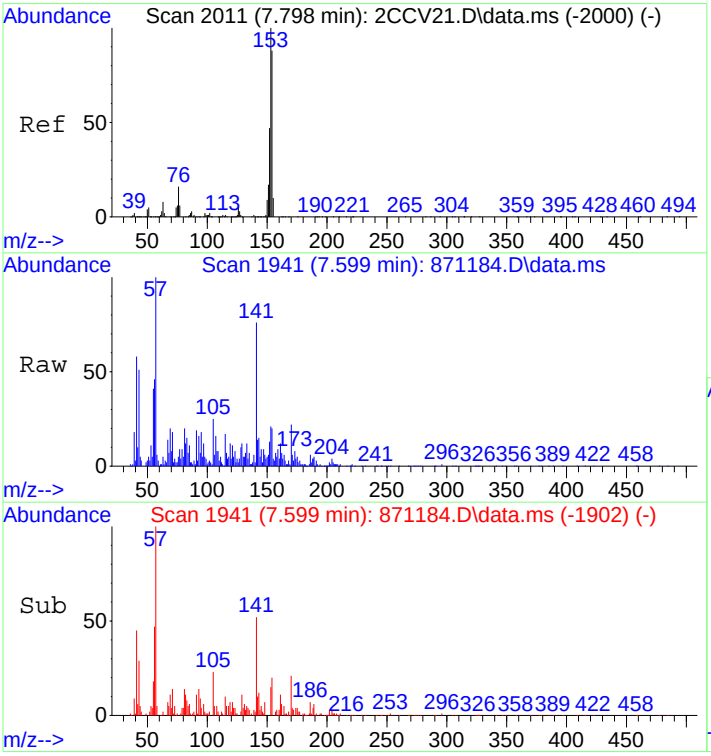


#49
26Dinitrotolu
Concen: 0.10 ug/mL
RT: 7.463 min Scan# 1893
Delta R.T. 0.020 min
Lab File: 871184.D
Acq: 2 Dec 10 9:06 pm

Tgt Ion:165 Resp: 1841

Ion	Ratio	Lower	Upper
165	100		
89	58.7	20.8	80.8

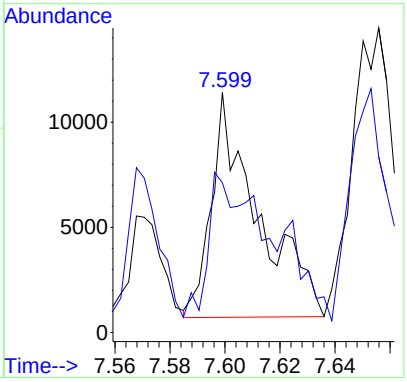


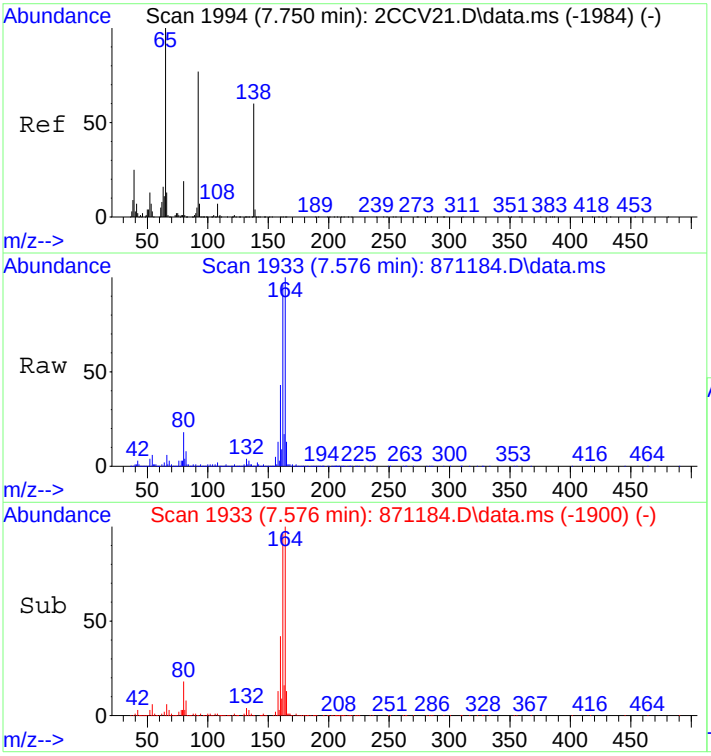


#50
Acenaphthene
Concen: 0.15 ug/mL
RT: 7.599 min Scan# 1941
Delta R.T. -0.003 min
Lab File: 871184.D
Acq: 2 Dec 10 9:06 pm

Tgt Ion:153 Resp: 12414

Ion	Ratio	Lower	Upper
153	100		
152	50.7	15.5	75.5

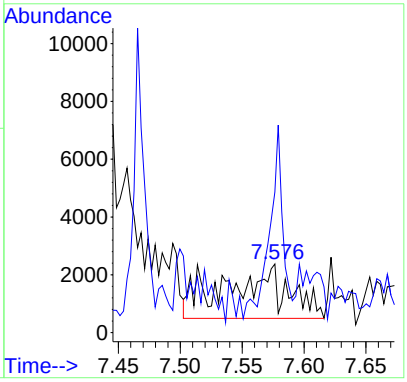


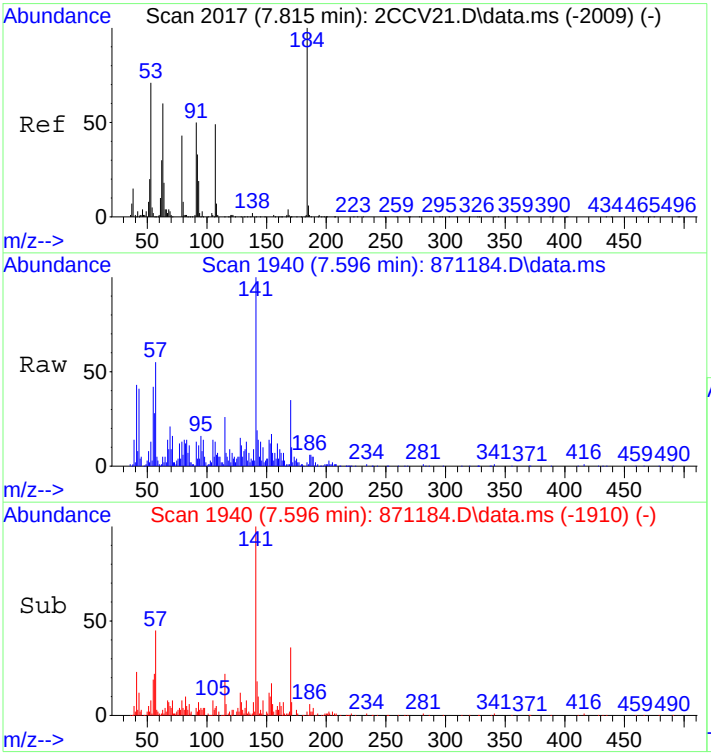


#51
3Nitroaniline
Concen: 0.32 ug/mL
RT: 7.576 min Scan# 1933
Delta R.T. 0.020 min
Lab File: 871184.D
Acq: 2 Dec 10 9:06 pm

Tgt Ion:138 Resp: 6441

Ion	Ratio	Lower	Upper
138	100		
92	174.7	74.6	134.6#

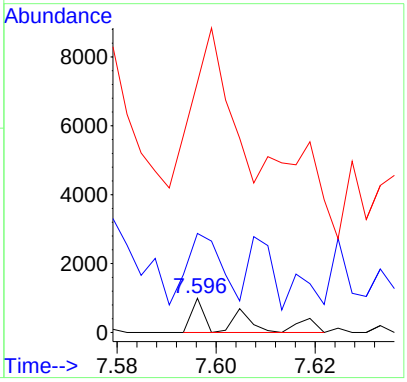


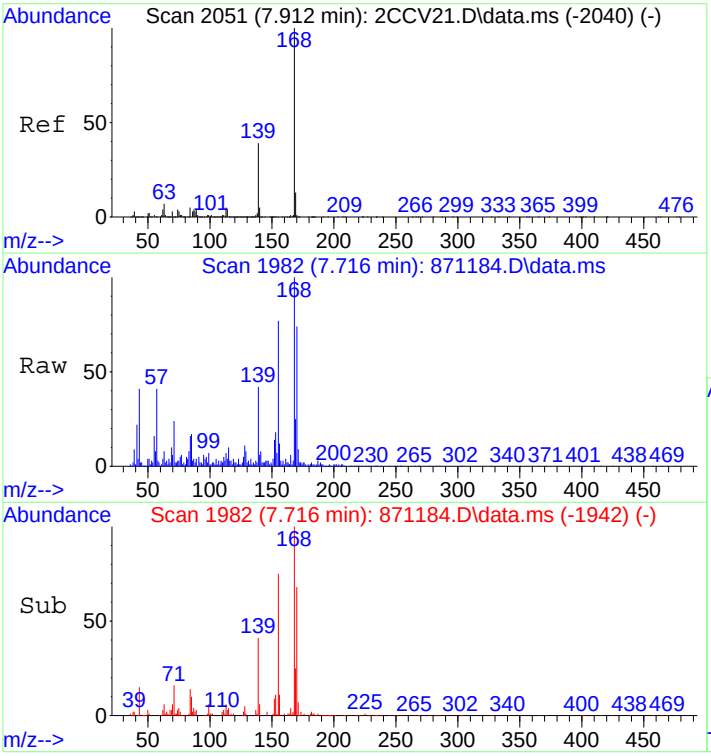


#52
24Dinitphenol
Concen: 2.41 ug/mL
RT: 7.596 min Scan# 1940
Delta R.T. -0.029 min
Lab File: 871184.D
Acq: 2 Dec 10 9:06 pm

Tgt Ion:184 Resp: 459

Ion	Ratio	Lower	Upper
184	100		
63	289.1	44.6	104.6#
107	730.9	13.0	73.0#

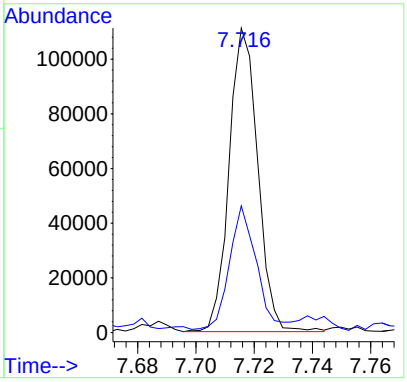


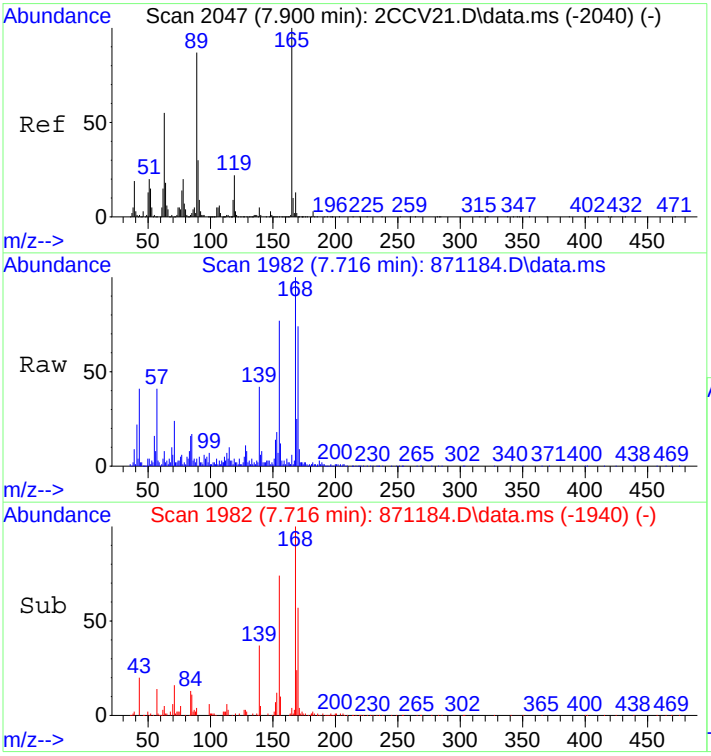


#53
Dibenzofuran
Concen: 0.72 ug/mL
RT: 7.716 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 871184.D
Acq: 2 Dec 10 9:06 pm

Tgt Ion:168 Resp: 75993

Ion	Ratio	Lower	Upper
168	100		
139	39.8	7.1	67.1

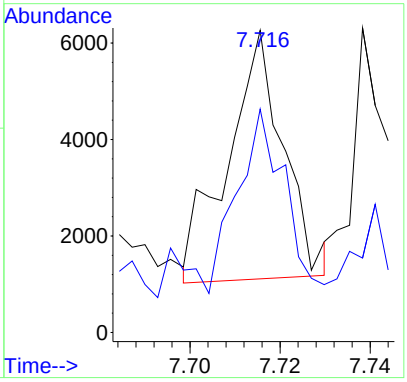


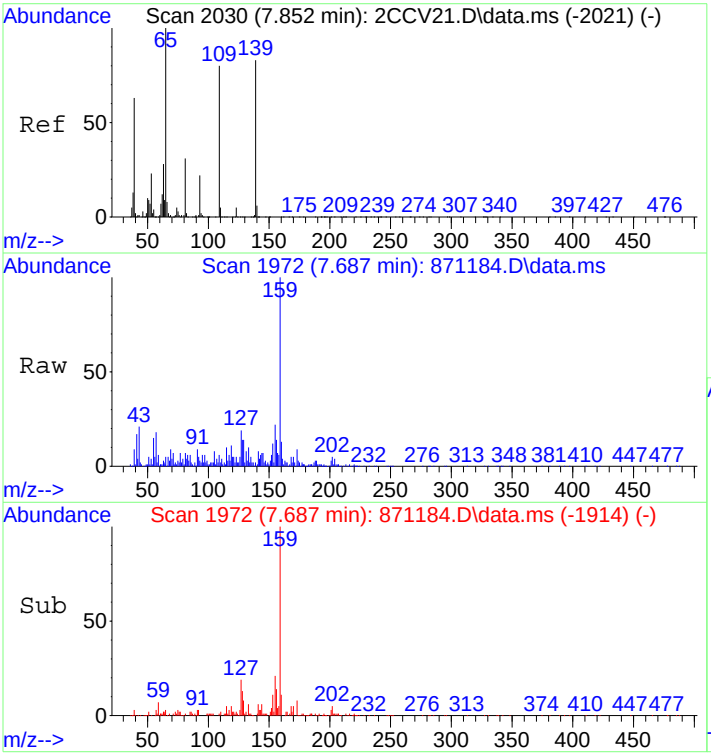


#54
24Dinitrotolu
Concen: 0.19 ug/mL
RT: 7.716 min Scan# 1982
Delta R.T. 0.006 min
Lab File: 871184.D
Acq: 2 Dec 10 9:06 pm

Tgt Ion:165 Resp: 4438

Ion	Ratio	Lower	Upper
165	100		
89	74.2	41.4	101.4

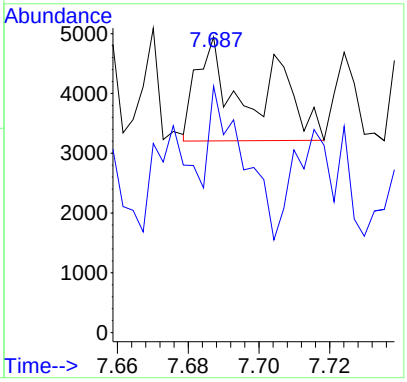


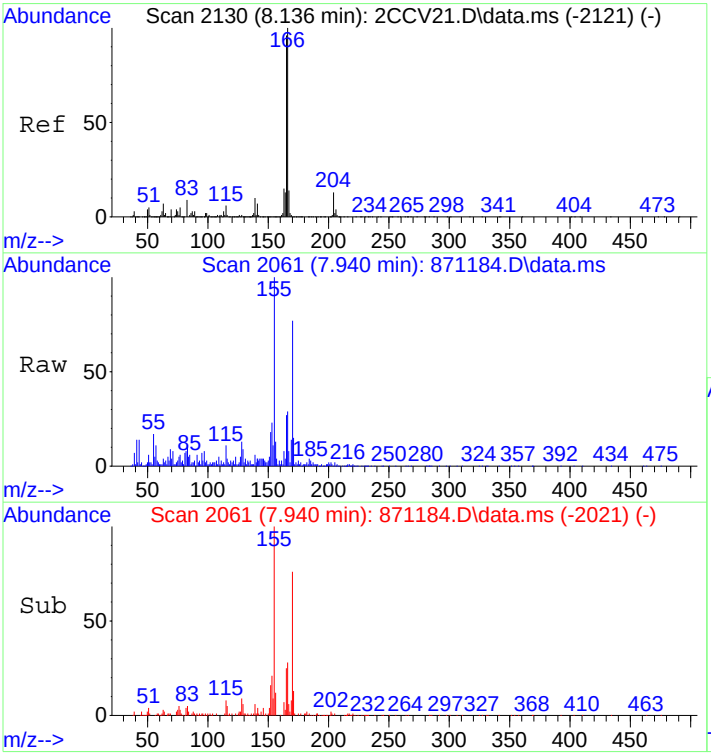


#55
4-Nitrophenol
Concen: 0.29 ug/mL
RT: 7.687 min Scan# 1972
Delta R.T. 0.020 min
Lab File: 871184.D
Acq: 2 Dec 10 9:06 pm

Tgt Ion:109 Resp: 1904

Ion	Ratio	Lower	Upper
109	100		
65	76.4	123.5	183.5#

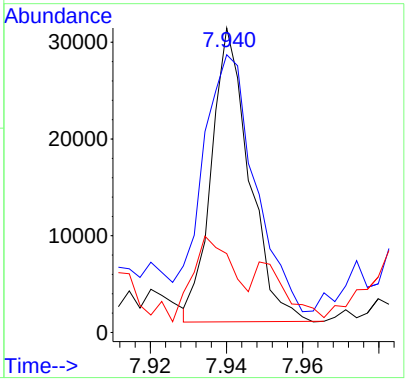


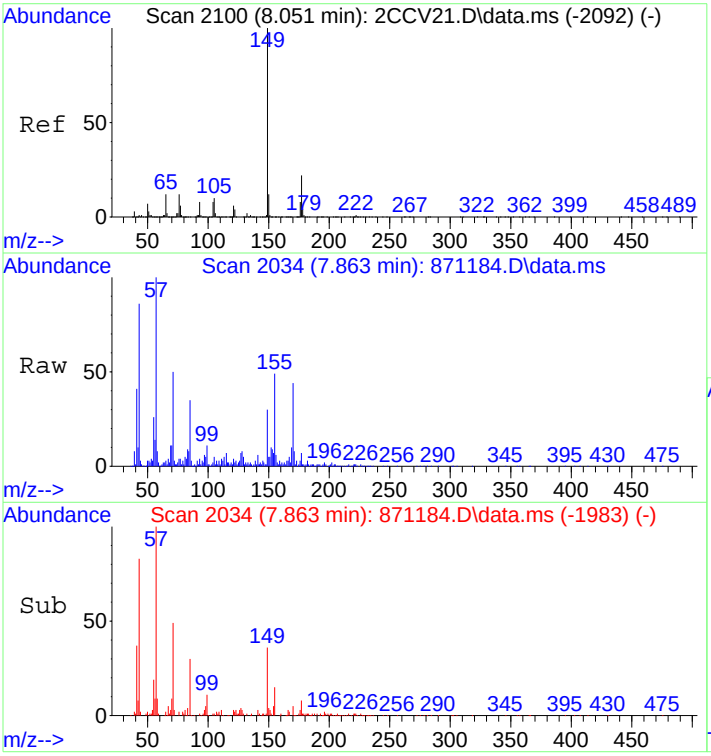


#58
Fluorene
Concen: 0.25 ug/mL
RT: 7.940 min Scan# 2061
Delta R.T. -0.000 min
Lab File: 871184.D
Acq: 2 Dec 10 9:06 pm

Tgt Ion:166 Resp: 20984

Ion	Ratio	Lower	Upper
166	100		
165	81.2	64.5	124.5
167	21.8	0.0	42.6

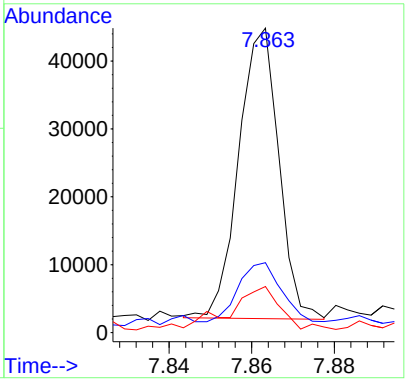


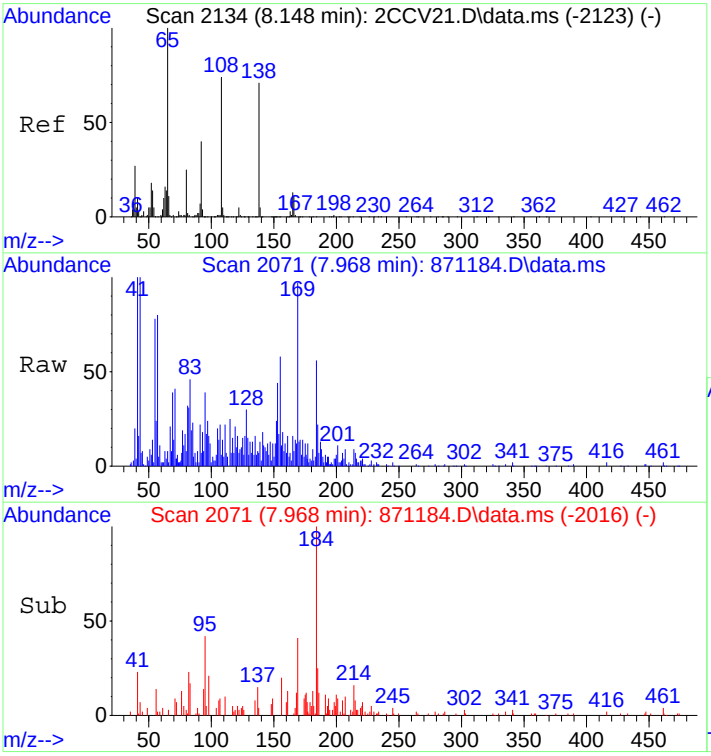


#60
Diethylphthal
Concen: 0.32 ug/mL
RT: 7.863 min Scan# 2034
Delta R.T. -0.000 min
Lab File: 871184.D
Acq: 2 Dec 10 9:06 pm

Tgt Ion:149 Resp: 28740

Ion	Ratio	Lower	Upper
149	100		
177	20.3	0.0	52.2
150	14.3	0.0	42.5

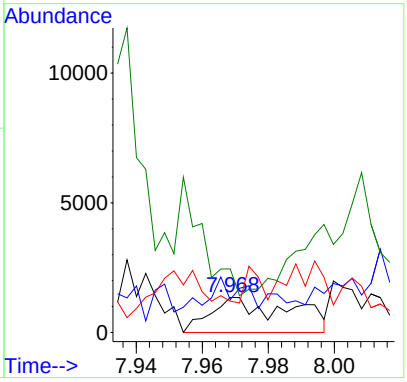


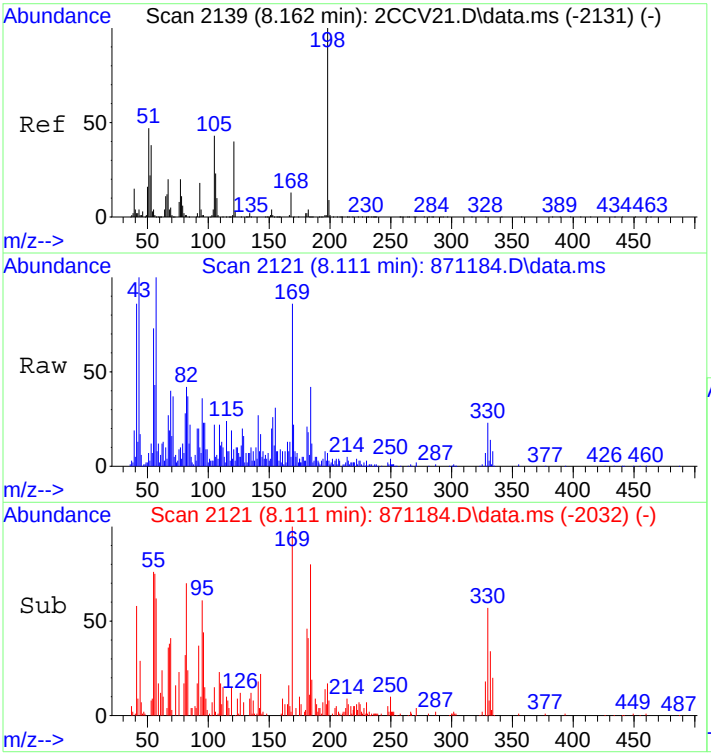


#61
4Nitroaniline
Concen: 0.11 ug/mL
RT: 7.968 min Scan# 2071
Delta R.T. 0.011 min
Lab File: 871184.D
Acq: 2 Dec 10 9:06 pm

Tgt Ion:138 Resp: 2225

Ion	Ratio	Lower	Upper
138	100		
92	21.2	19.9	79.9
108	0.0	39.4	99.4#
139	0.0	0.0	41.3

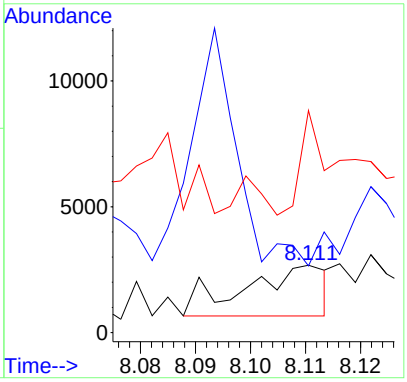


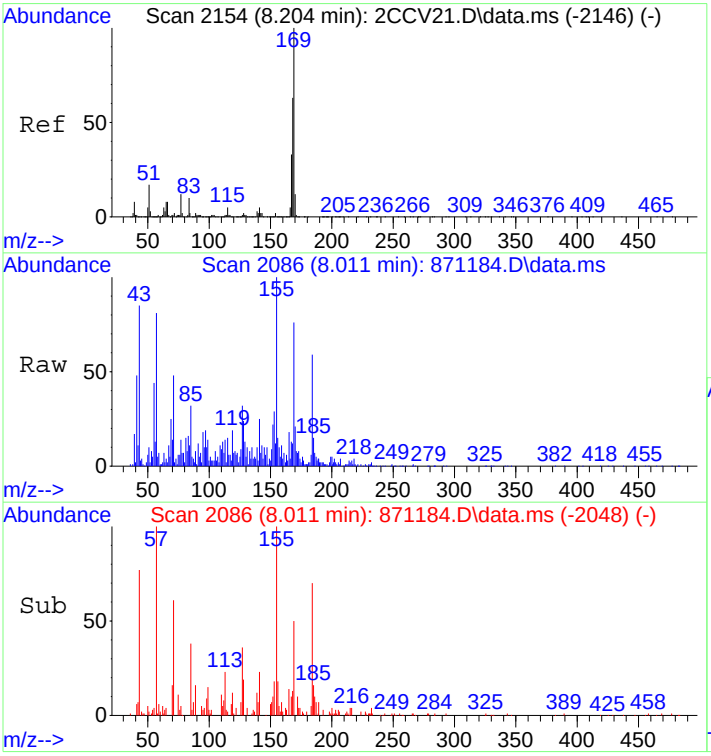


#64
46Dinit2mylph
Concen: 0.15 ug/mL
RT: 8.111 min Scan# 2121
Delta R.T. 0.139 min
Lab File: 871184.D
Acq: 2 Dec 10 9:06 pm

Tgt Ion:198 Resp: 2070

Ion	Ratio	Lower	Upper
198	100		
51	0.0	24.7	84.7#
105	195.8	13.4	73.4#

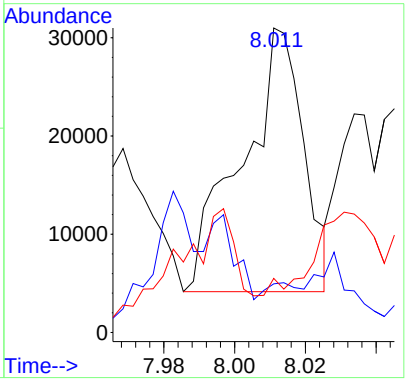


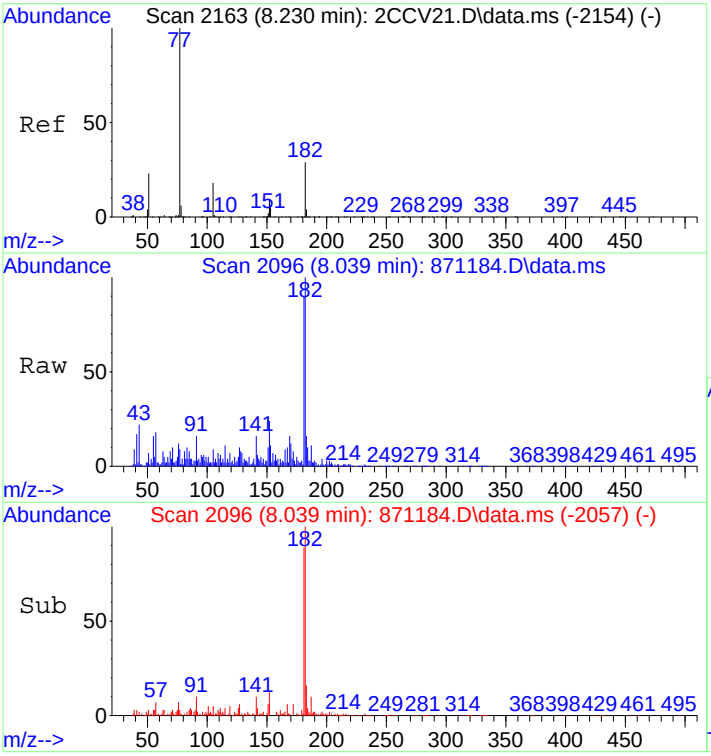


#65
Ntrsdiphlam&Diphlam
Concen: 0.56 ug/mL
RT: 8.011 min Scan# 2086
Delta R.T. -0.006 min
Lab File: 871184.D
Acq: 2 Dec 10 9:06 pm

Tgt Ion:169 Resp: 32522

Ion	Ratio	Lower	Upper
169	100		
168	0.0	34.8	94.8#
167	0.0	4.6	64.6#

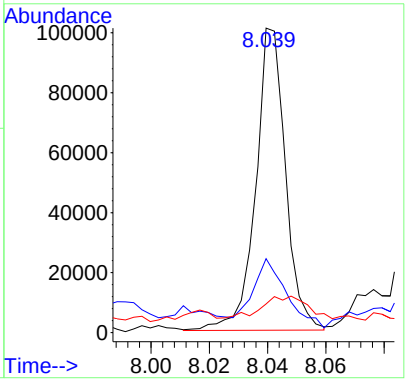


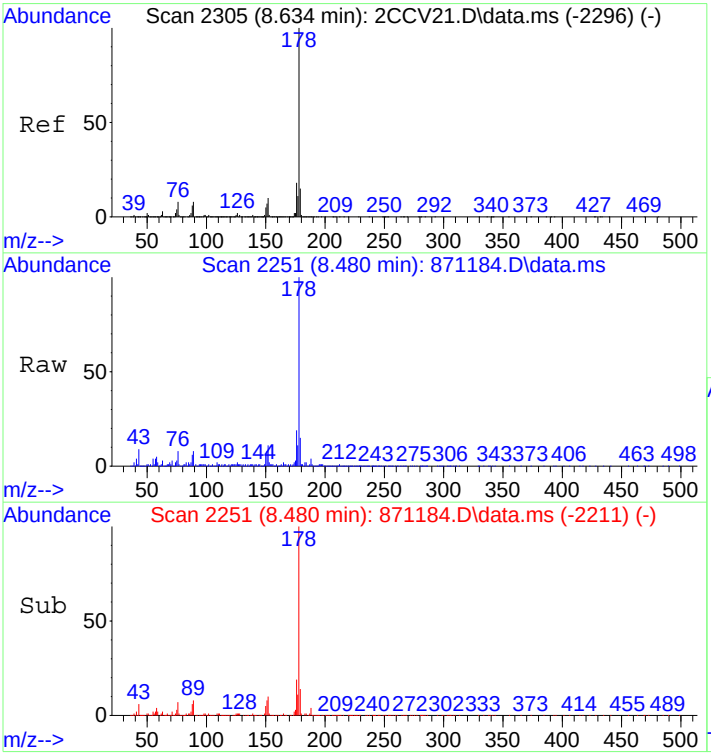


#66
Azobenz&12Diphlhyd
Concen: 3.25 ug/mL
RT: 8.039 min Scan# 2096
Delta R.T. -0.003 min
Lab File: 871184.D
Acq: 2 Dec 10 9:06 pm

Tgt Ion:182 Resp: 71767

Ion	Ratio	Lower	Upper
182	100		
152	23.0	3.5	63.5
77	3.7	348.6	408.6#

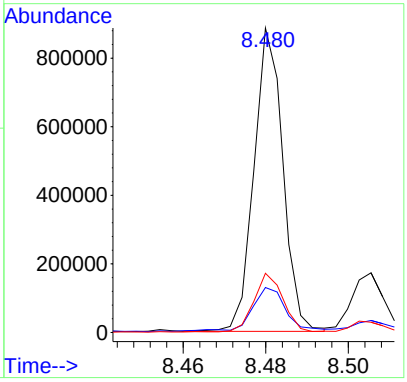


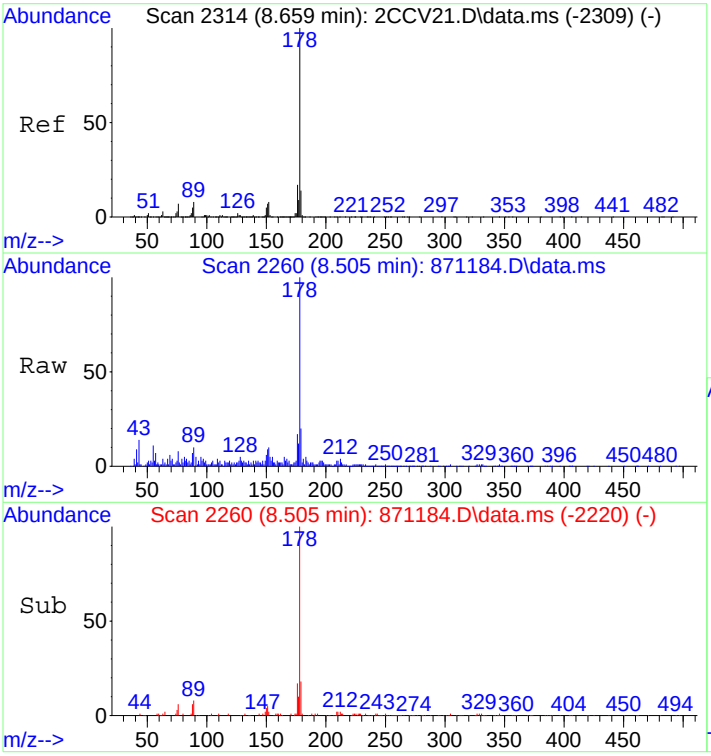


#70
Phenanthrene
Concen: 4.14 ug/mL
RT: 8.480 min Scan# 2251
Delta R.T. -0.000 min
Lab File: 871184.D
Acq: 2 Dec 10 9:06 pm

Tgt Ion:178 Resp: 431779

Ion	Ratio	Lower	Upper
178	100		
179	14.3	0.0	44.4
176	19.3	0.0	48.0

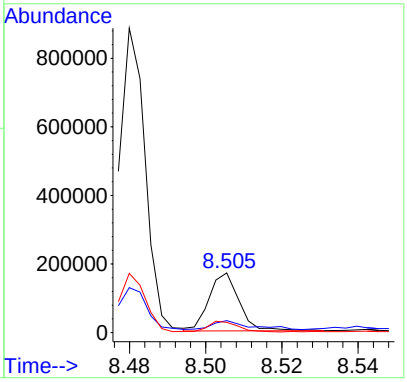


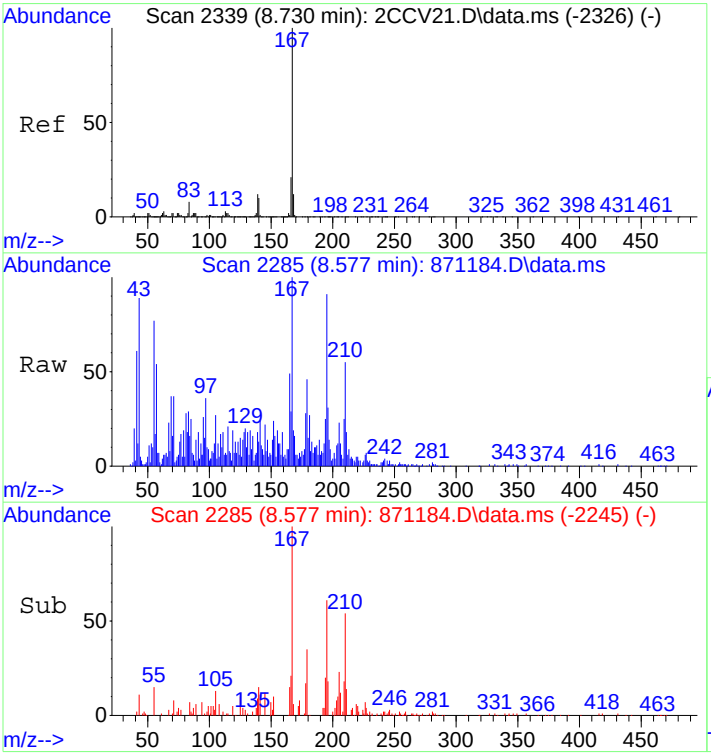


#71
Anthracene
Concen: 0.88 ug/mL
RT: 8.505 min Scan# 2260
Delta R.T. -0.000 min
Lab File: 871184.D
Acq: 2 Dec 10 9:06 pm

Tgt Ion:178 Resp: 93138

Ion	Ratio	Lower	Upper
178	100		
179	15.3	0.0	45.0
176	16.1	0.0	48.4

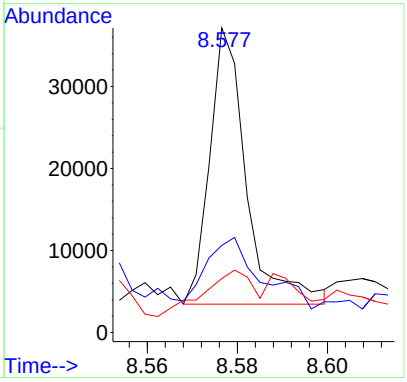


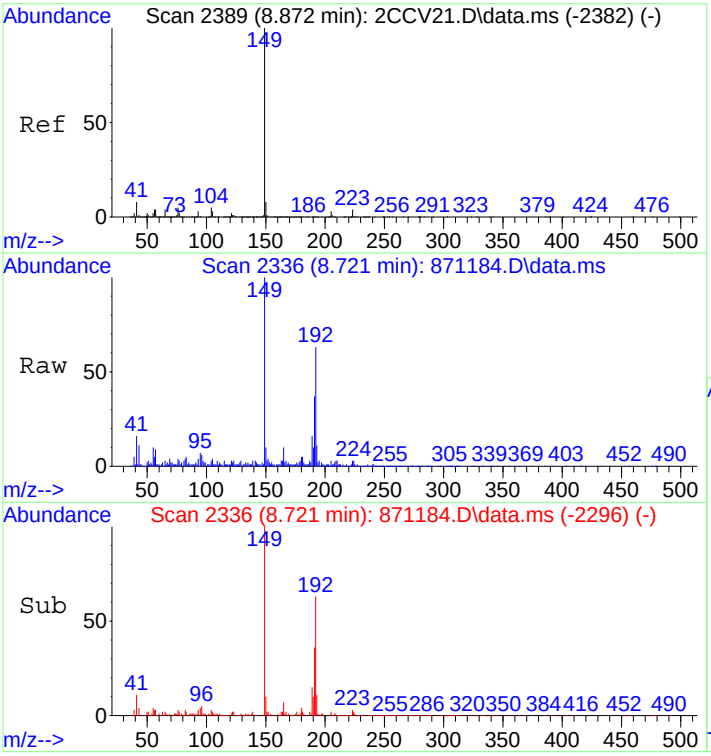


#72
Carbazole
Concen: 0.21 ug/mL
RT: 8.577 min Scan# 2285
Delta R.T. -0.000 min
Lab File: 871184.D
Acq: 2 Dec 10 9:06 pm

Tgt Ion:167 Resp: 19181

Ion	Ratio	Lower	Upper
167	100		
166	20.4	0.0	50.6
139	7.8	0.0	43.0

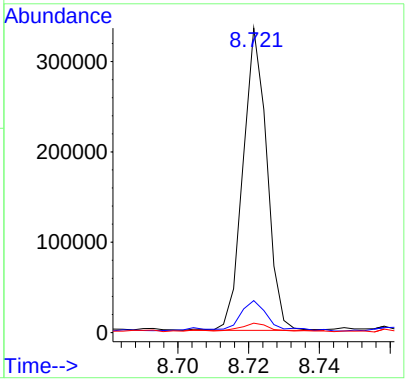


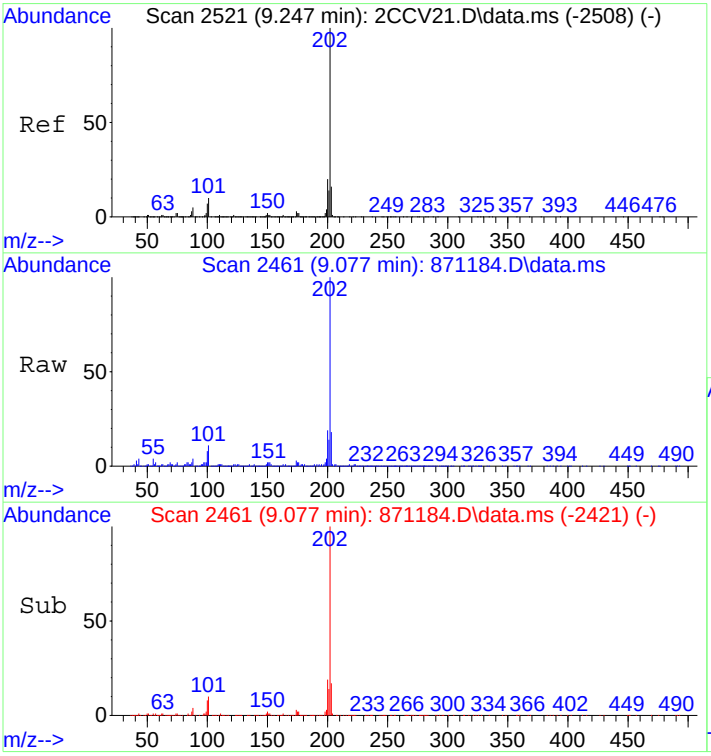


#73
Dinbtylphthal
Concen: 1.29 ug/mL
RT: 8.721 min Scan# 2336
Delta R.T. -0.000 min
Lab File: 871184.D
Acq: 2 Dec 10 9:06 pm

Tgt Ion:149 Resp: 155963

Ion	Ratio	Lower	Upper
149	100		
150	9.6	0.0	38.5
104	2.6	0.0	34.3

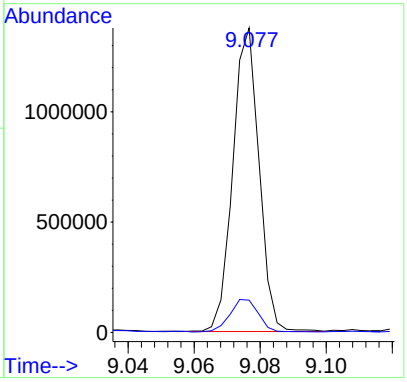


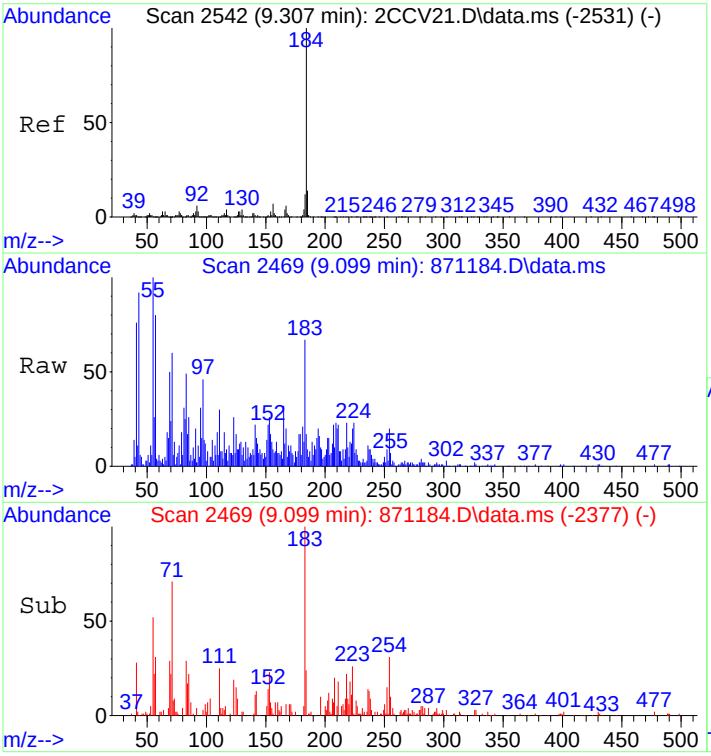


#74
Fluoranthene
Concen: 7.22 ug/mL
RT: 9.077 min Scan# 2461
Delta R.T. -0.000 min
Lab File: 871184.D
Acq: 2 Dec 10 9:06 pm

Tgt Ion:202 Resp: 758909

Ion	Ratio	Lower	Upper
202	100		
101	10.4	0.0	41.2

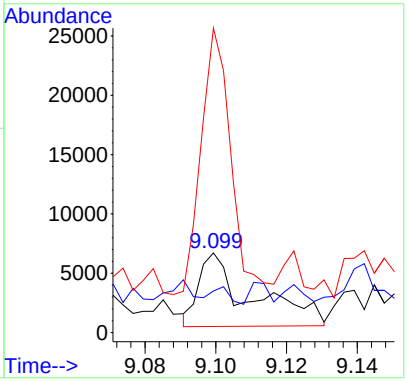


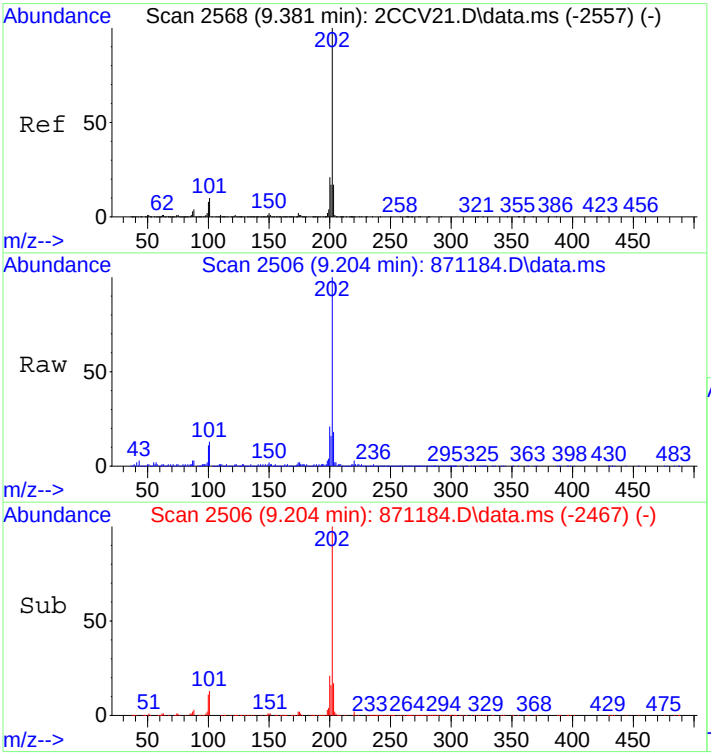


#76
Benzidine
Concen: Below ug/mL
RT: 9.099 min Scan# 2469
Delta R.T. -0.040 min
Lab File: 871184.D
Acq: 2 Dec 10 9:06 pm

Tgt Ion:184 Resp: 6351

Ion	Ratio	Lower	Upper
184	100		
185	9.1	0.0	43.8
183	379.7	0.0	41.8#

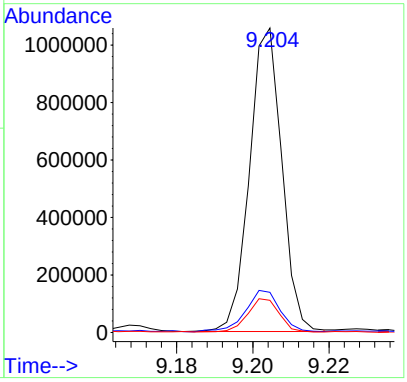


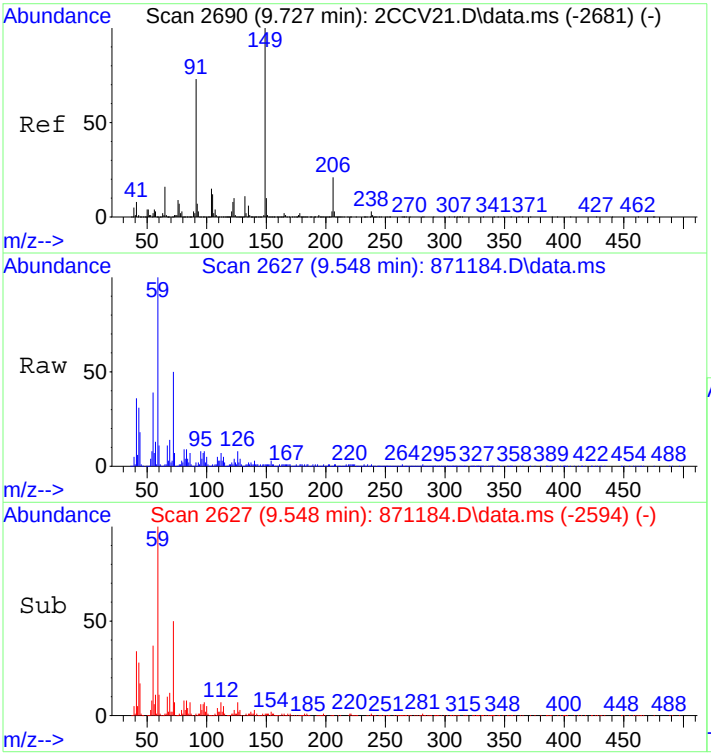


#77
Pyrene
Concen: 5.76 ug/mL
RT: 9.204 min Scan# 2506
Delta R.T. -0.003 min
Lab File: 871184.D
Acq: 2 Dec 10 9:06 pm

Tgt Ion:202 Resp: 621439

Ion	Ratio	Lower	Upper
202	100		
101	13.0	0.0	44.0
100	10.5	0.0	42.2

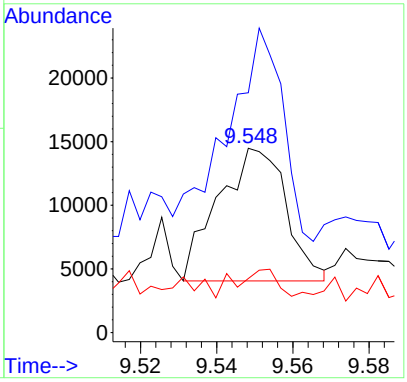


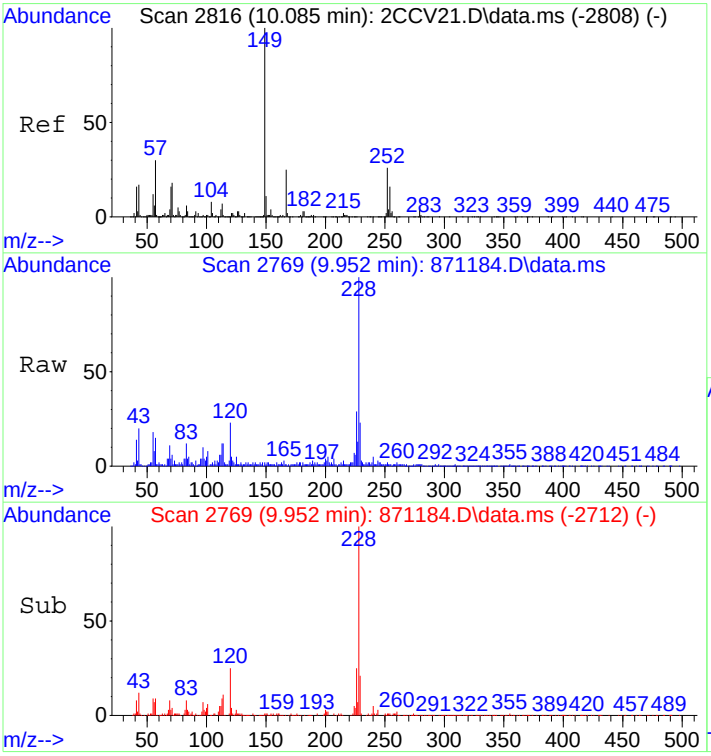


#79
Btylbzylphth
Concen: 0.25 ug/mL
RT: 9.548 min Scan# 2627
Delta R.T. -0.006 min
Lab File: 871184.D
Acq: 2 Dec 10 9:06 pm

Tgt Ion:149 Resp: 12926

Ion	Ratio	Lower	Upper
149	100		
91	99.5	40.5	100.5
206	9.4	0.0	48.9

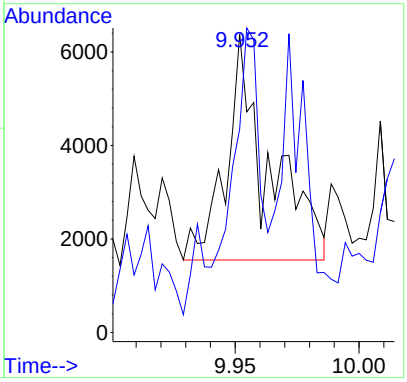


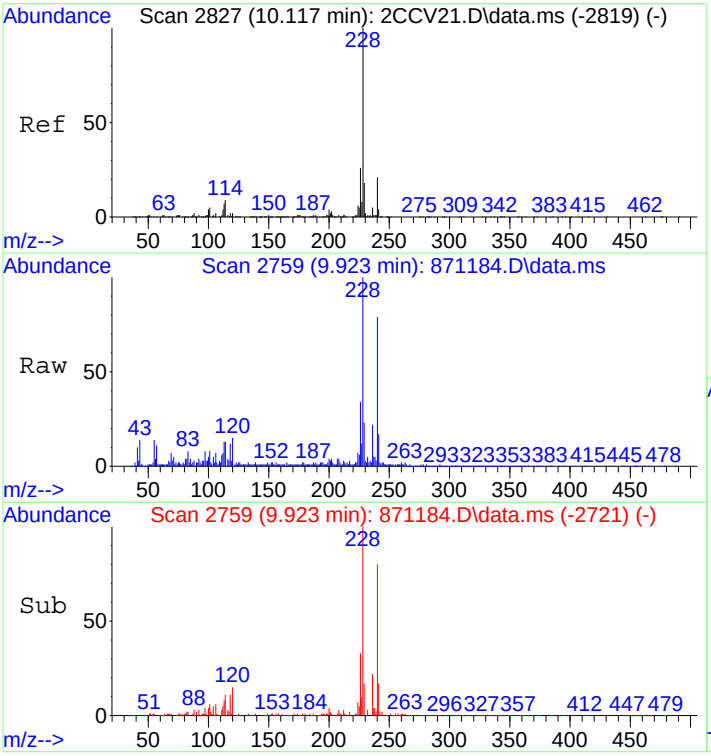


#80
33Diclbnzidin
Concen: Below ug/mL
RT: 9.952 min Scan# 2769
Delta R.T. 0.048 min
Lab File: 871184.D
Acq: 2 Dec 10 9:06 pm

Tgt Ion:252 Resp: 5744

Ion	Ratio	Lower	Upper
252	100		
254	82.3	31.7	91.7

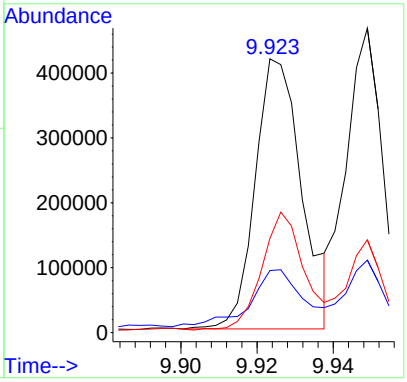


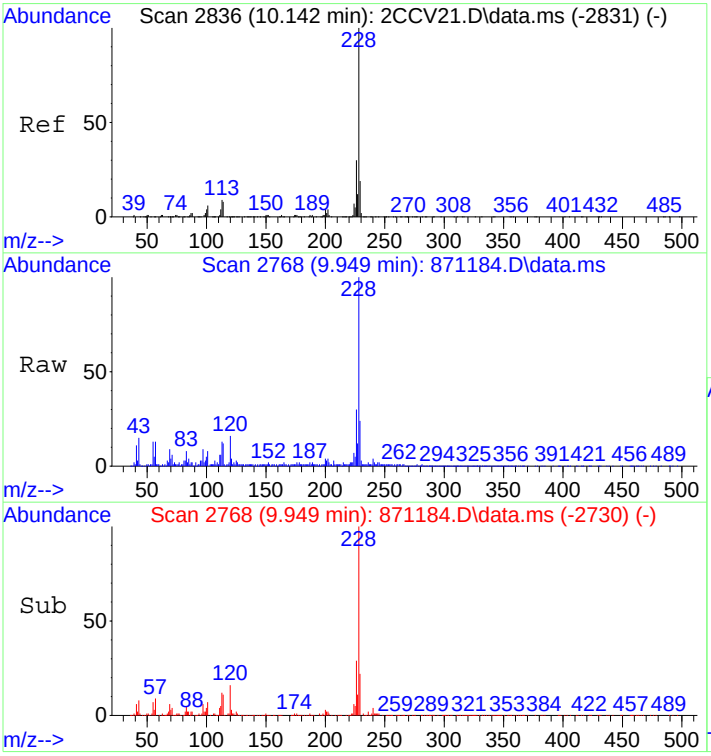


#81
B[a]anthracen
Concen: 3.53 ug/mL
RT: 9.923 min Scan# 2759
Delta R.T. -0.006 min
Lab File: 871184.D
Acq: 2 Dec 10 9:06 pm

Tgt Ion:228 Resp: 354895

Ion	Ratio	Lower	Upper
228	100		
229	19.8	0.0	48.8
226	33.7	0.0	56.6

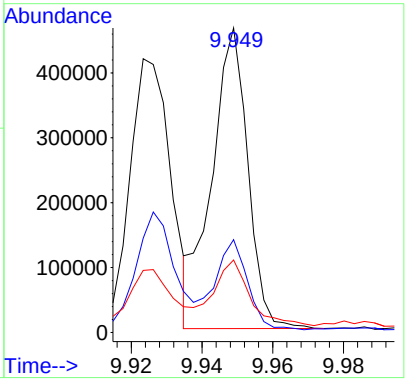


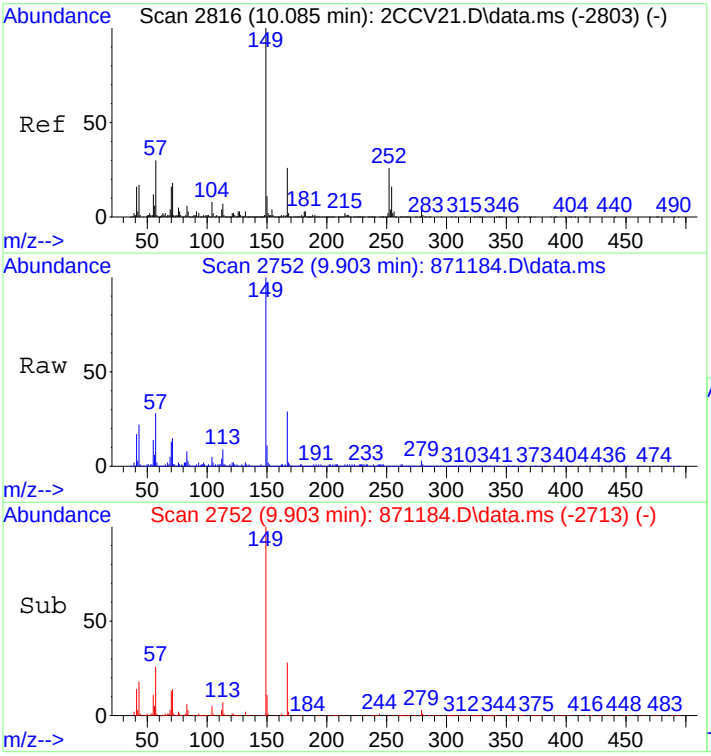


#82
Chrysene
Concen: 3.42 ug/mL
RT: 9.949 min Scan# 2768
Delta R.T. -0.006 min
Lab File: 871184.D
Acq: 2 Dec 10 9:06 pm

Tgt Ion:228 Resp: 329395

Ion	Ratio	Lower	Upper
228	100		
226	29.7	0.0	58.6
229	21.1	0.0	49.6

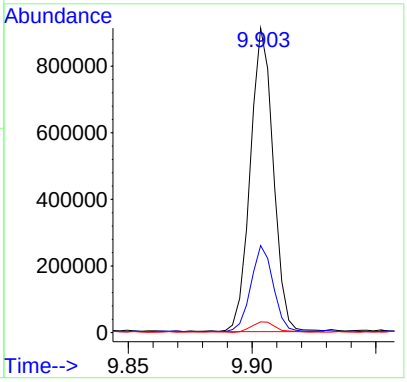


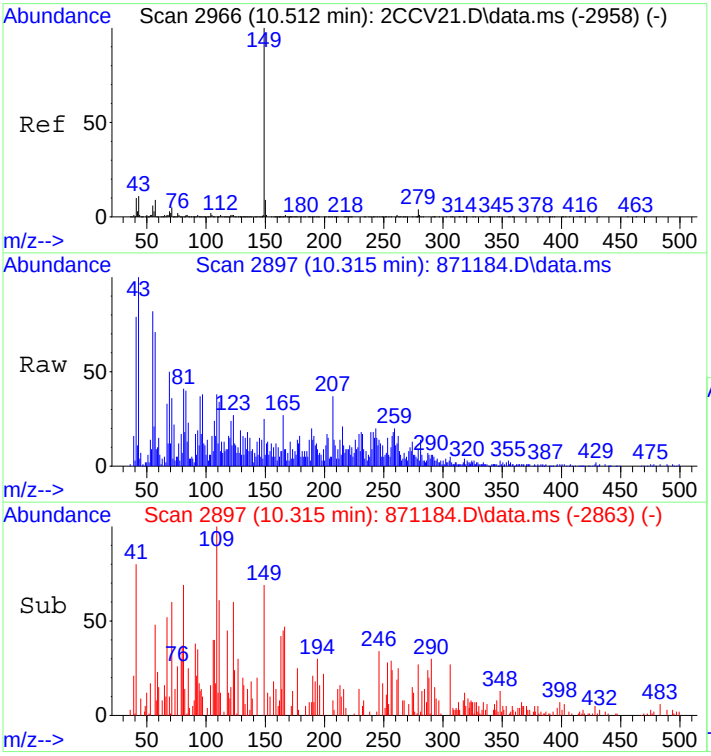


#83
bis2Ethlhxlph
Concen: 7.74 ug/mL
RT: 9.903 min Scan# 2752
Delta R.T. -0.003 min
Lab File: 871184.D
Acq: 2 Dec 10 9:06 pm

Tgt Ion:149 Resp: 589678

Ion	Ratio	Lower	Upper
149	100		
167	28.3	0.0	56.9
279	3.4	0.0	33.6

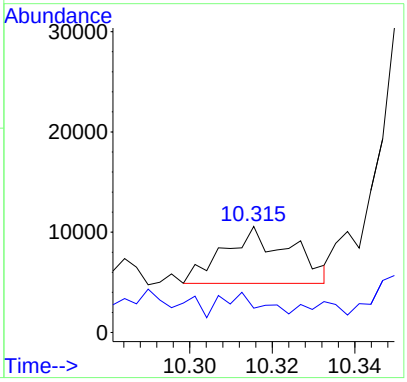


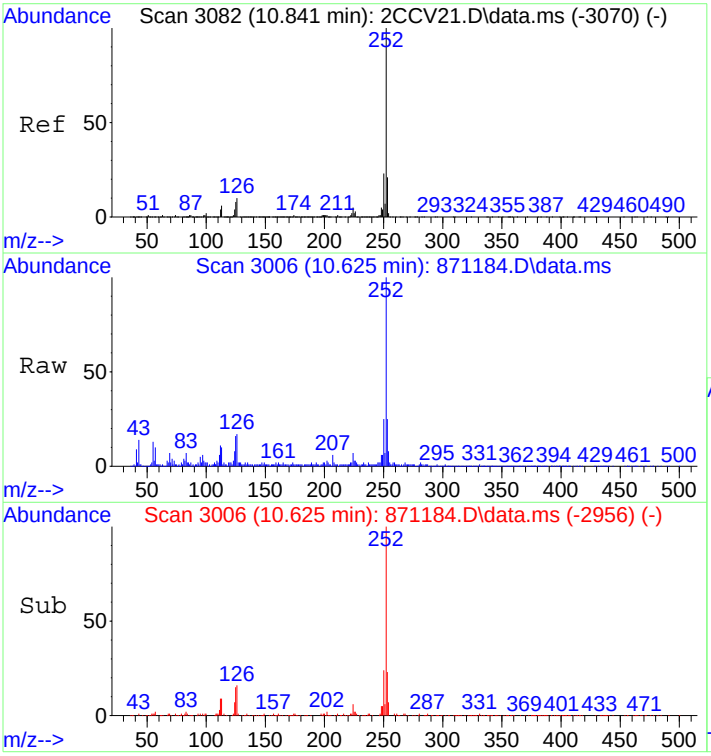


#84
Dinoctylphthl
Concen: 0.05 ug/mL
RT: 10.315 min Scan# 2897
Delta R.T. -0.017 min
Lab File: 871184.D
Acq: 2 Dec 10 9:06 pm

Tgt Ion:149 Resp: 6275

Ion	Ratio	Lower	Upper
149	100		
150	0.0	0.0	39.0

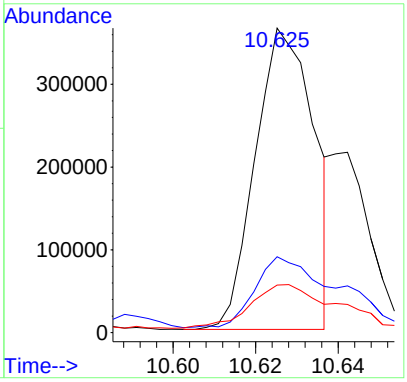


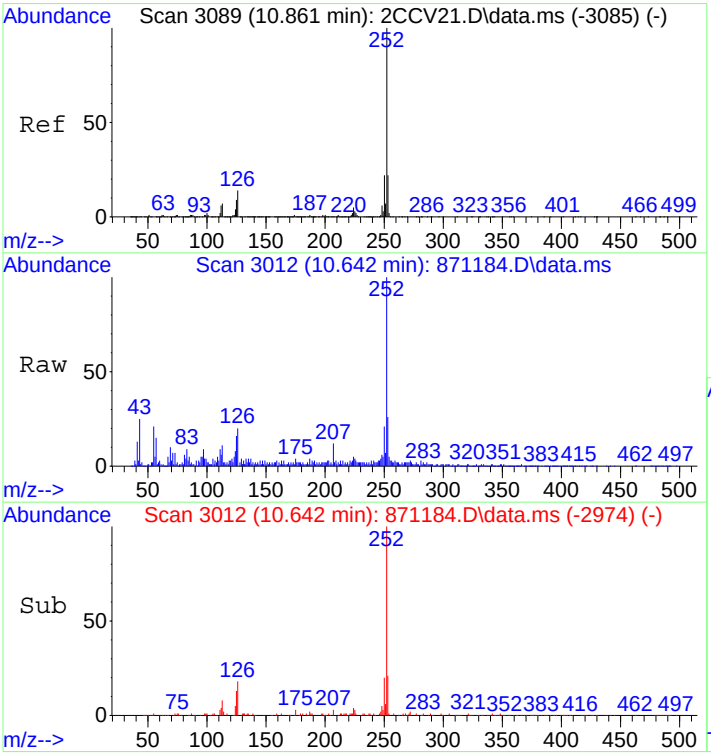


#86
B[b]fluoranth
Concen: 3.85 ug/mL
RT: 10.625 min Scan# 3006
Delta R.T. -0.003 min
Lab File: 871184.D
Acq: 2 Dec 10 9:06 pm

Tgt Ion:252 Resp: 360693

Ion	Ratio	Lower	Upper
252	100		
253	23.6	0.0	50.8
125	14.2	0.0	41.9

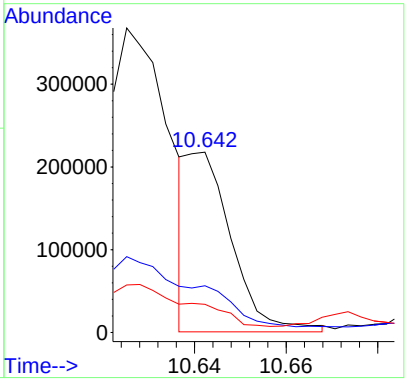


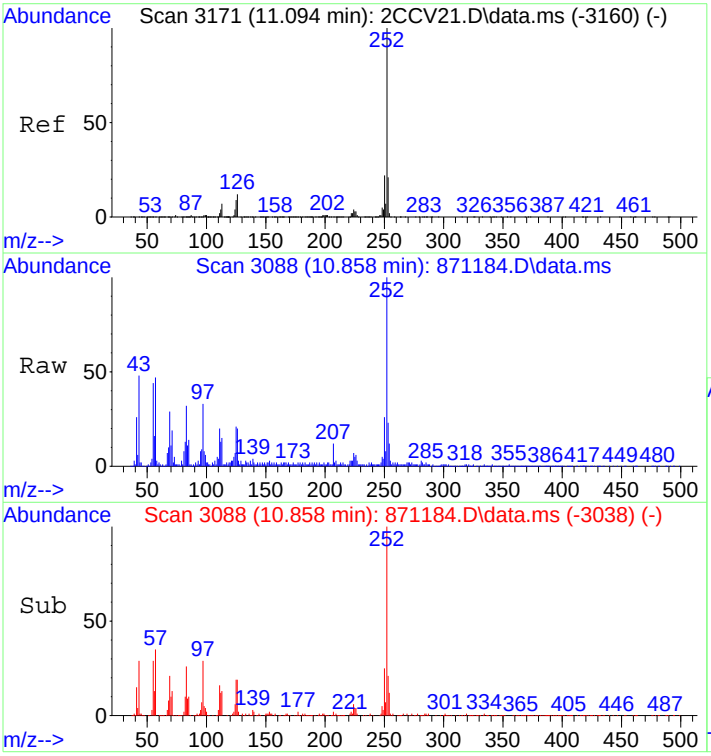


#87
B[k]fluoranth
Concen: 1.66 ug/mL m
RT: 10.642 min Scan# 3012
Delta R.T. -0.006 min
Lab File: 871184.D
Acq: 2 Dec 10 9:06 pm

Tgt Ion:252 Resp: 146468

Ion	Ratio	Lower	Upper
252	100		
253	25.9	0.0	50.8
125	15.6	0.0	41.3

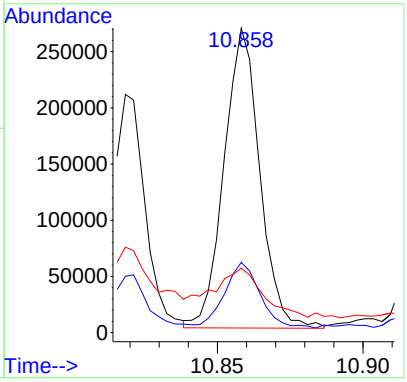


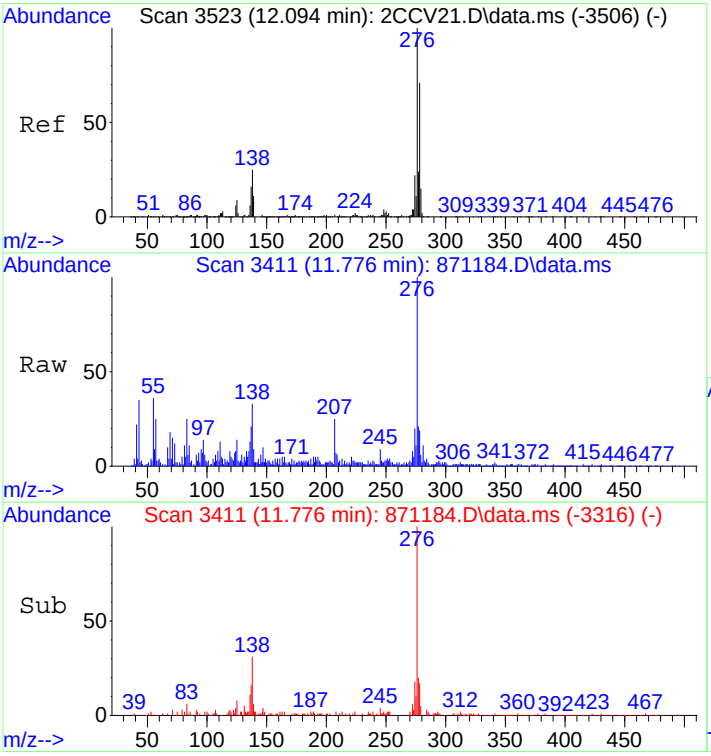


#88
Benz[a]pyrene
Concen: 2.67 ug/mL
RT: 10.858 min Scan# 3088
Delta R.T. -0.003 min
Lab File: 871184.D
Acq: 2 Dec 10 9:06 pm

Tgt Ion:252 Resp: 227669

Ion	Ratio	Lower	Upper
252	100		
253	21.0	0.0	50.4
125	16.1	0.0	43.2

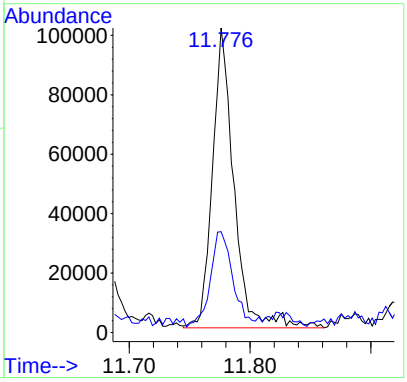


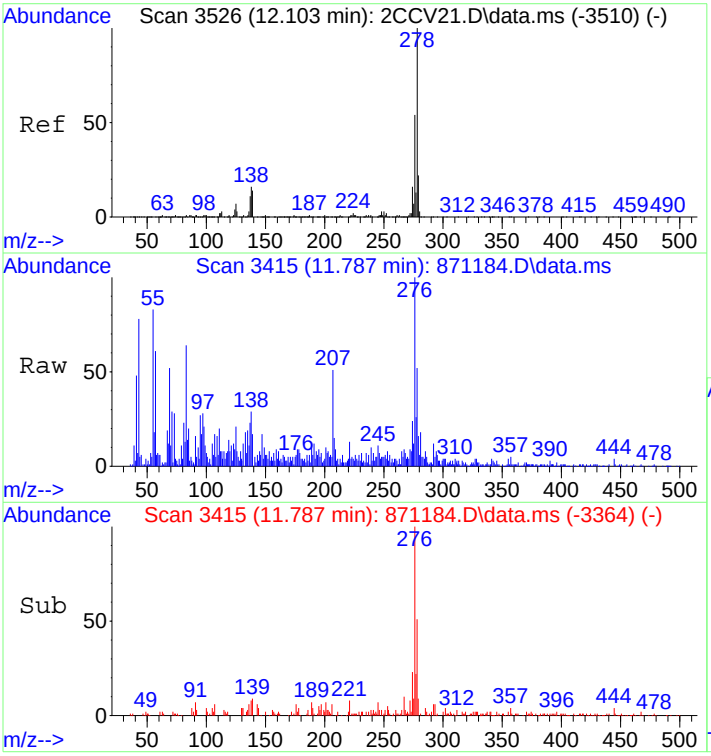


#89
Indeno-pyrene
Concen: 1.43 ug/mL
RT: 11.776 min Scan# 3411
Delta R.T. -0.009 min
Lab File: 871184.D
Acq: 2 Dec 10 9:06 pm

Tgt Ion:276 Resp: 124378

Ion	Ratio	Lower	Upper
276	100		
138	29.1	2.2	62.2

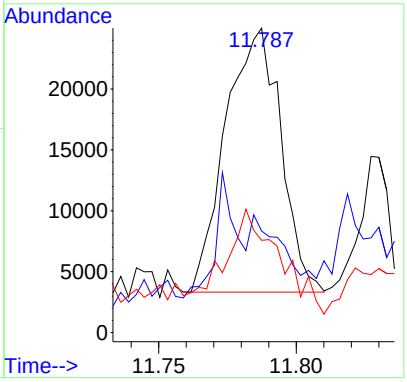


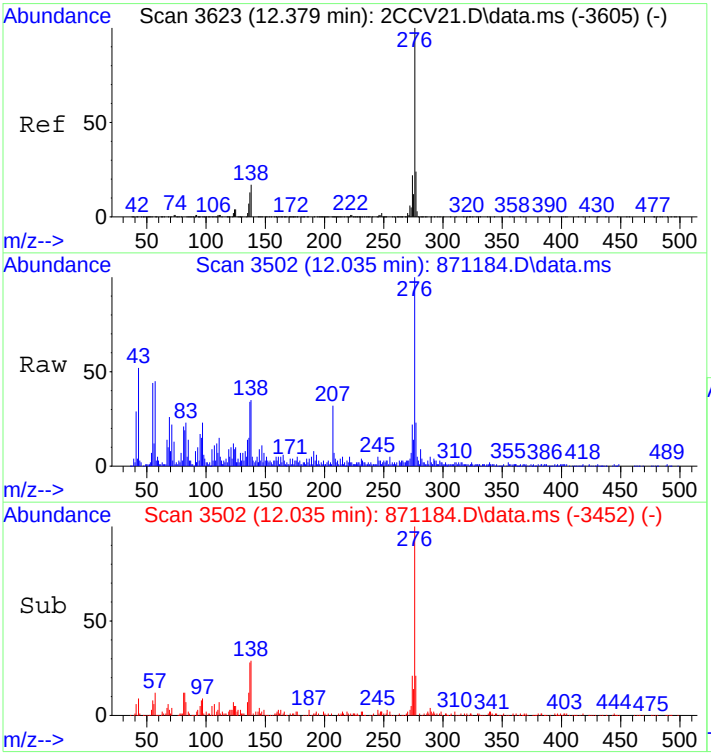


#90
Dib[ah]anthr
Concen: 0.43 ug/mL
RT: 11.787 min Scan# 3415
Delta R.T. -0.006 min
Lab File: 871184.D
Acq: 2 Dec 10 9:06 pm

Tgt Ion:278 Resp: 30154

Ion	Ratio	Lower	Upper
278	100		
139	25.3	0.0	50.7
279	28.0	0.0	54.3

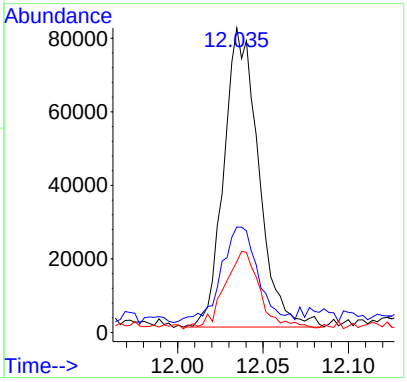


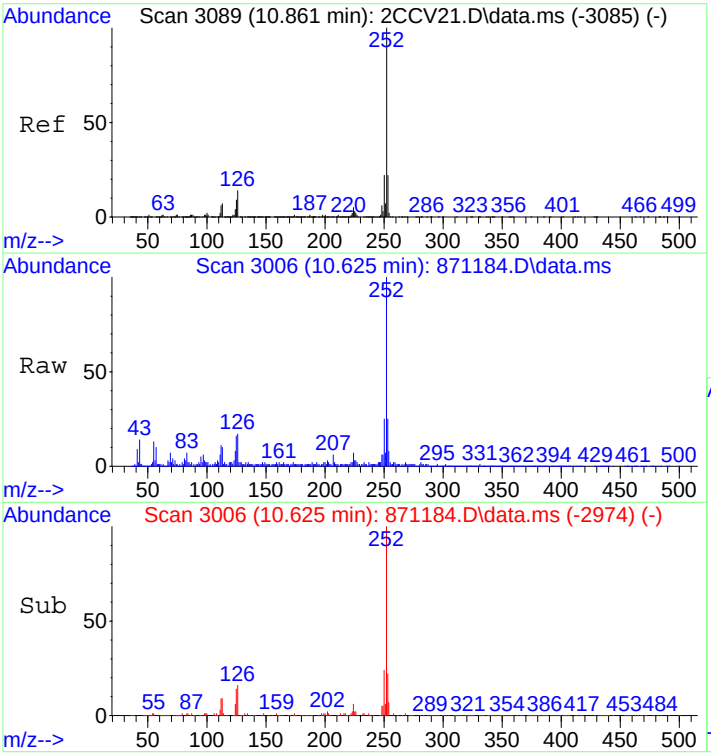


#91
B[ghi]perylen
Concen: 1.60 ug/mL
RT: 12.035 min Scan# 3502
Delta R.T. -0.009 min
Lab File: 871184.D
Acq: 2 Dec 10 9:06 pm

Tgt Ion:276 Resp: 115261

Ion	Ratio	Lower	Upper
276	100		
138	30.5	0.0	57.5
277	22.4	0.0	53.1

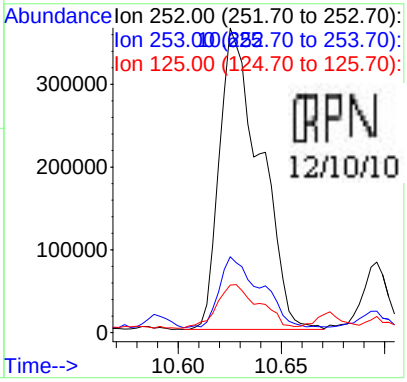




#87
B[k]fluoranth
Concen: 5.67 ug/mL
RT: 10.625 min Scan# 3006
Delta R.T. -0.023 min
Lab File: 871184.D
Acq: 2 Dec 2010 21:06

Tgt Ion:252 Resp: 501667

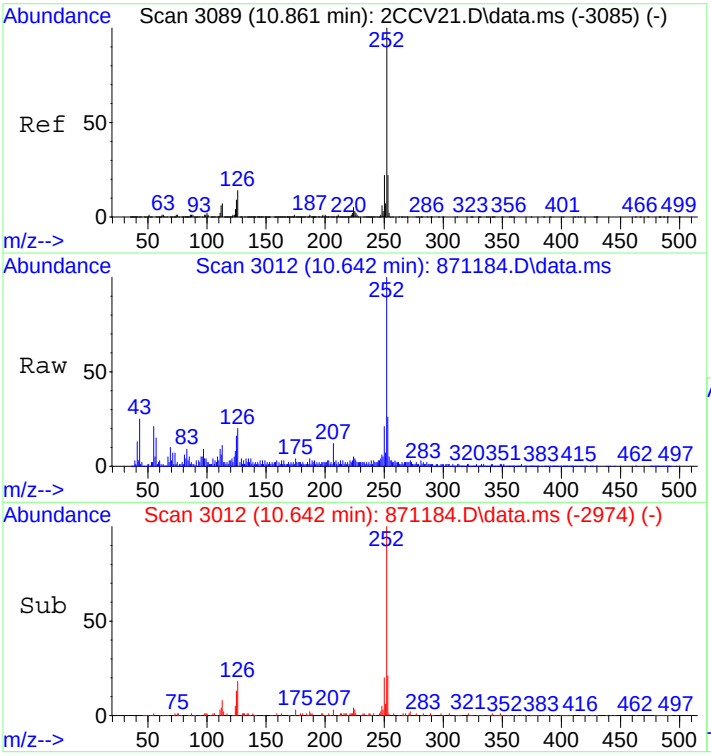
Ion	Ratio	Lower	Upper
252	100		
253	23.6	0.0	50.8
125	14.2	0.0	41.3



RPN
12/10/10

JJY
01/05/11

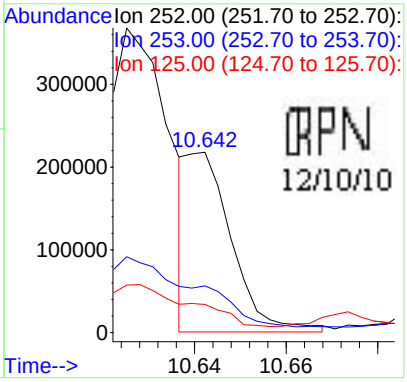
Before Manual Integration



#87
B[k]fluoranth
Concen: 1.66 ug/mL m
RT: 10.642 min Scan# 3012
Delta R.T. -0.006 min
Lab File: 871184.D
Acq: 2 Dec 2010 21:06

Tgt Ion:252 Resp: 146468

Ion	Ratio	Lower	Upper
252	100		
253	25.9	0.0	50.8
125	15.6	0.0	41.3



JJY
01/05/11

After Manual Integration

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\871186.D Vial: 9
Acq On : 2 Dec 2010 21:26 Operator: RPN
Sample : 72180,871186,1 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 14 08:48:10 2010

RPN 12/13/10

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Tue Dec 14 08:47:34 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.425	152	533284	20.00	ug/mL	0.00
21) Naphthalened8	6.070	136	2493096	20.00	ug/mL	0.00
39) Acenaphthened10	7.576	164	1312055	20.00	ug/mL	0.00
63) Phenanthrd10	8.468	188	2010353	20.00	ug/mL	0.00
75) Chrysene-d12	9.935	240	1858067	20.00	ug/mL	0.00
85) Perylene-d12	10.904	264	1651429	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	3.183	112	1014066	76.38	%REC	0.02
Spiked Amount 100.000	Range 20 - 110		Recovery = 76.38%			
7) SURRPhenol-d5	3.996	99	1301396	81.61	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 81.61%			
22) SURRNitrbenzened5	5.121	82	454932	75.62	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 75.62%			
44) SURR2Flbiphenyl	7.090	172	1323157	77.08	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 77.08%			
62) SURR246Tribrphenl	8.093	330	308408	77.74	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 77.74%			
78) SURRTerphenyl-d14	9.275	244	1130348	83.75	ug/mL	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 83.75%			
Target Compounds						Qvalue
2) Ntrsdimeth	2.288	74	1054	0.0557	ug/mL#	1
3) Pyridine	2.408	79	828	0.0246	ug/mL#	66
5) Aniline	4.101	93	12473	0.2426	ug/mL#	42
6) bis2Clethletr	4.101	93	12369	0.3876	ug/mL#	46
8) Phenol	4.010	94	11594	0.2950	ug/mL	83
12) 12Diclbenz	4.621	146	5434	0.1363	ug/mL	72
13) Benzyl alcoho	4.718	108	6270	1.2466	ug/mL#	35
15) 2Methylphenol	4.729	108	1504	0.0500	ug/mL#	52
17) Acetophenone	4.920	105	9462	0.2110	ug/mL#	62
18) Hexaclethane	5.087	117	293	0.0209	ug/mL#	10
19) N-Ntrsdinprop	4.954	70	2130	0.1061	ug/mL	96
24) Isophorone	5.505	82	4797	0.0707	ug/mL	94
30) Benzoic acid	5.744	105	11589	3.3487	ug/mL	83
31) Naphthalene	6.093	128	43558	0.3423	ug/mL	94
32) 4-Cl-aniline	6.093	127	5954	0.1247	ug/mL#	2
36) 4Cl3methylphe	6.661	107	634	0.0204	ug/mL#	19
37) 2Methylnaphth	6.781	141	33068	0.4656	ug/mL	100
38) 1Methylnaphth	6.863	141	24509	0.3325	ug/mL	98
46) 2Nitroaniline	7.207	65	3444	0.1946	ug/mL#	16
47) Acnaphthylene	7.477	152	5423	0.0418	ug/mL	75
48) Dimethylphtha	7.392	163	3962	0.0445	ug/mL	91
49) 26Dinitrotolu	7.423	165	10473	0.5436	ug/mL#	42
50) Acenaphthene	7.599	153	2140	0.0262	ug/mL	88
51) 3Nitroaniline	7.599	138	1311	0.0636	ug/mL#	64
52) 24Dinitphenol	7.718	184	428	2.4091	ug/mL#	1
53) Dibenzofuran	7.716	168	13055	0.1229	ug/mL	87
54) 24Dinitrotolu	7.710	165	1761	0.0738	ug/mL#	52
55) 4-Nitrophenol	7.670	109	1141	0.1727	ug/mL#	1
58) Fluorene	7.937	166	2595	0.0303	ug/mL#	81
60) Diethylphthal	7.858	149	43566	0.4846	ug/mL	95
61) 4Nitroaniline	7.957	138	1715	0.0847	ug/mL#	36
65) Ntrsdiphlam&Diphlam	8.093	169	8997	0.1507	ug/mL#	43
66) Azobenz&12Diphlhyd	8.039	182	10579	0.4690	ug/mL#	1
70) Phenanthrene	8.480	178	47045	0.4413	ug/mL	93

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\871186.D Vial: 9
Acq On : 2 Dec 2010 21:26 Operator: RPN
Sample : 72180,871186,1 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 14 08:48:10 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Tue Dec 14 08:47:34 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

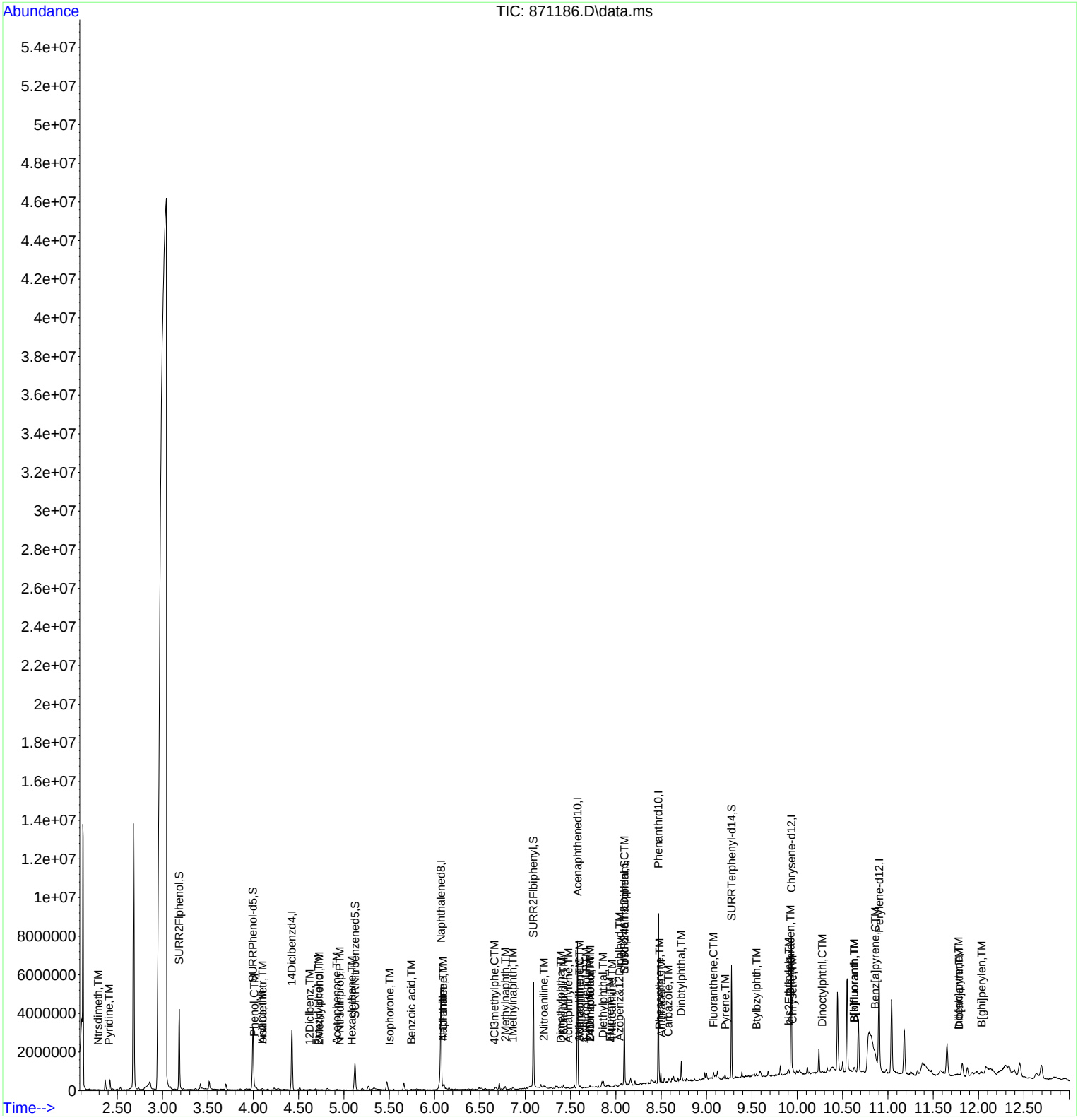
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
71) Anthracene	8.503	178	5173	0.0479 ug/mL	75
72) Carbazole	8.576	167	6091	0.0665 ug/mL	75
73) Dinbtylphthal	8.721	149	268701	2.1737 ug/mL	99
74) Fluoranthene	9.077	202	64824	0.6026 ug/mL	99
76) Benzidine	9.125	184	1489	Below Cal	85
77) Pyrene	9.204	202	56592	0.5107 ug/mL	96
79) Btylbzylphth	9.551	149	6119	0.1136 ug/mL#	42
81) B[a]anthracen	9.926	228	34364	0.3325 ug/mL	91
82) Chrysene	9.949	228	37870	0.3825 ug/mL	92
83) bis2Ethlhxlph	9.906	149	50071	0.6395 ug/mL	96
84) Dinoctylphthl	10.276	149	6089	0.0438 ug/mL#	1
86) B[b]fluoranth	10.628	252	53761	0.5527 ug/mL	94
87) B[k]fluoranth	10.628	252	66999	0.7292 ug/mL	94
88) Benz[a]pyrene	10.861	252	27259	0.3070 ug/mL	76
89) Indeno-pyrene	11.779	276	21554	0.2391 ug/mL	79
90) Dib[ah]anthr	11.784	278	5643	0.0771 ug/mL	62
91) B[ghi]perylen	12.035	276	17972	0.2400 ug/mL#	62

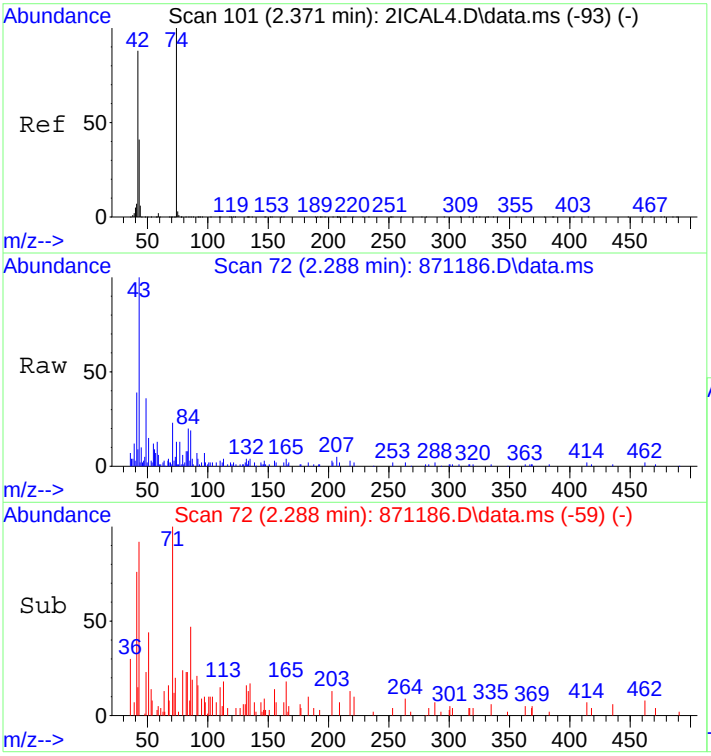
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\871186.D Vial: 9
Acq On : 2 Dec 2010 21:26 Operator: RPN
Sample : 72180,871186,1 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 14 08:48:10 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Tue Dec 14 08:47:34 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

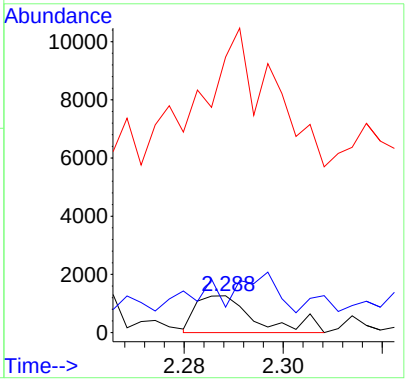


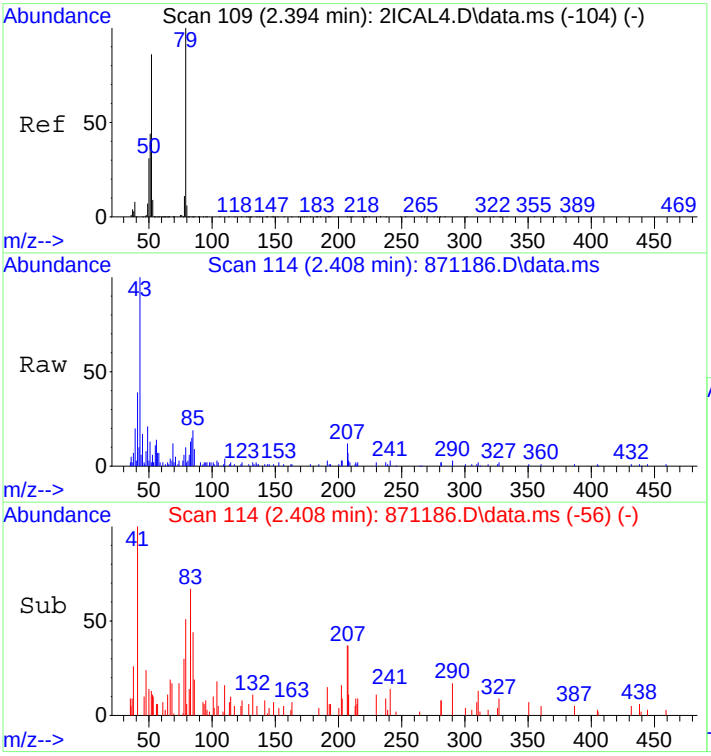


#2
Ntrsdimeth
Concen: 0.06 ug/mL
RT: 2.288 min Scan# 72
Delta R.T. -0.083 min
Lab File: 871186.D
Acq: 2 Dec 10 9:26 pm

Tgt Ion: 74 Resp: 1054

Ion	Ratio	Lower	Upper
74	100		
42	0.0	82.4	142.4#
43	329.9	17.7	77.7#

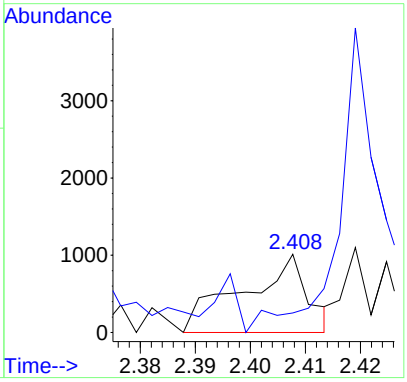


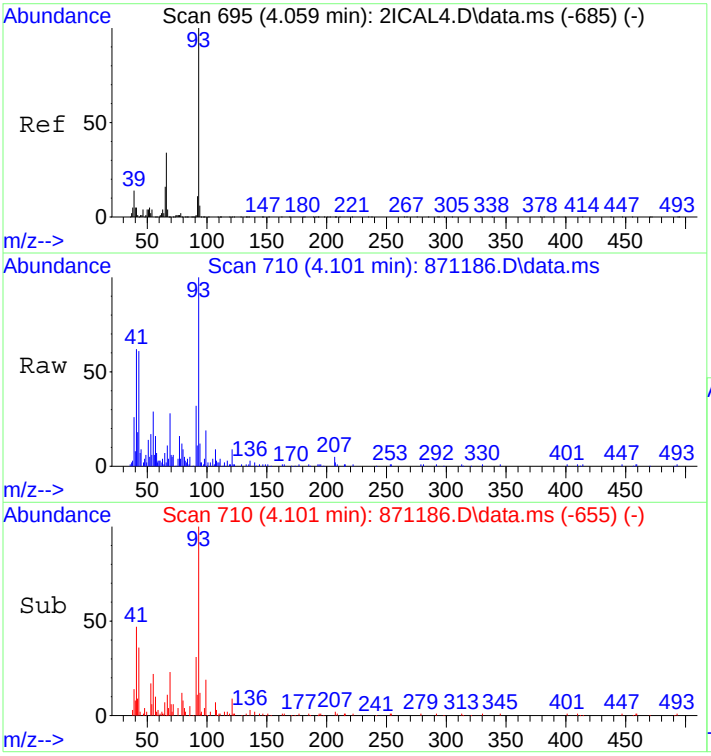


#3
Pyridine
Concen: 0.02 ug/mL
RT: 2.408 min Scan# 114
Delta R.T. 0.014 min
Lab File: 871186.D
Acq: 2 Dec 10 9:26 pm

Tgt Ion: 79 Resp: 828

Ion	Ratio	Lower	Upper
79	100		
52	59.6	62.6	122.6#

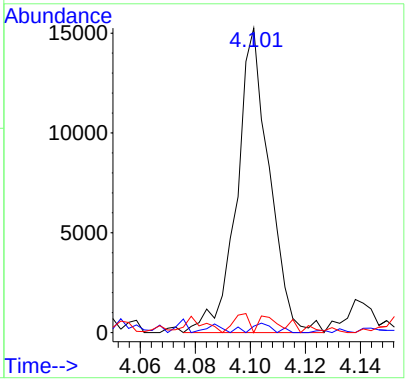


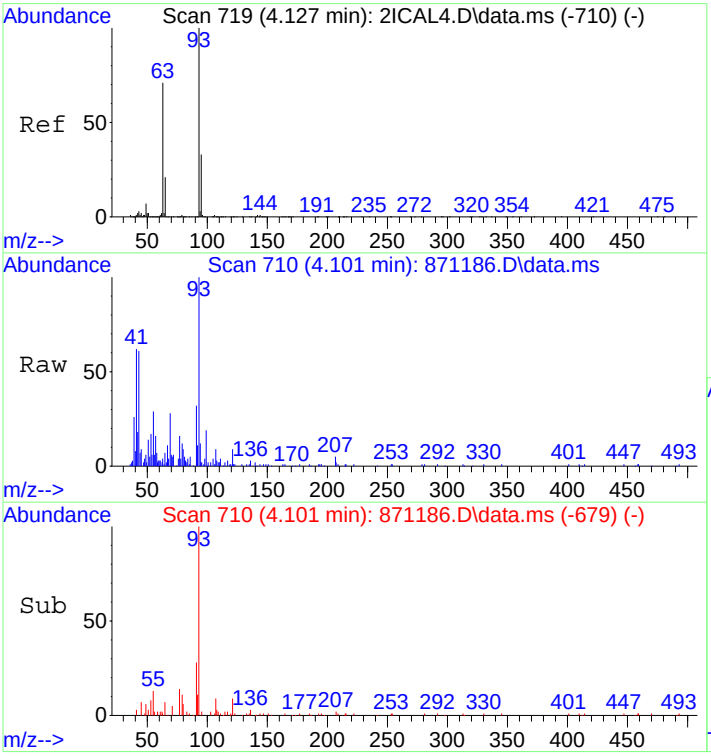


#5
Aniline
Concen: 0.24 ug/mL
RT: 4.101 min Scan# 710
Delta R.T. 0.042 min
Lab File: 871186.D
Acq: 2 Dec 10 9:26 pm

Tgt Ion: 93 Resp: 12473

Ion	Ratio	Lower	Upper
93	100		
66	0.0	10.4	70.4#
65	0.0	0.0	51.6

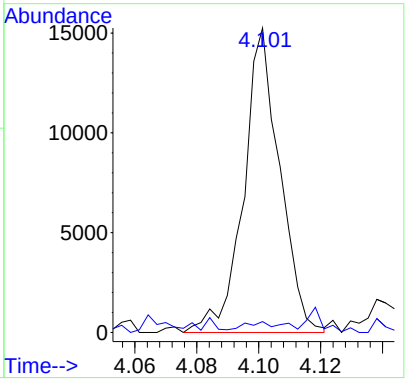


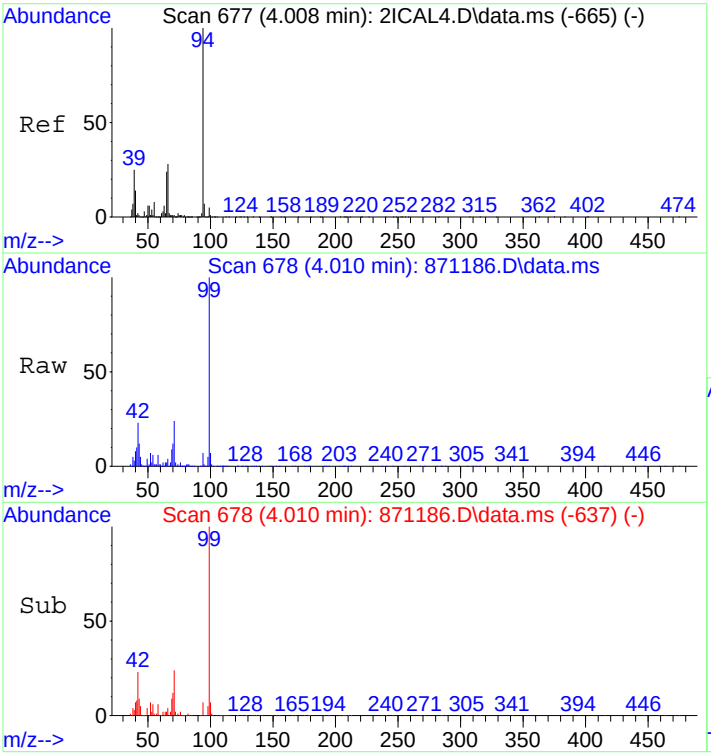


#6
bis2Clethletr
Concen: 0.39 ug/mL
RT: 4.101 min Scan# 710
Delta R.T. -0.026 min
Lab File: 871186.D
Acq: 2 Dec 10 9:26 pm

Tgt Ion: 93 Resp: 12369

Ion	Ratio	Lower	Upper
93	100		
95	2.4	2.4	62.4#

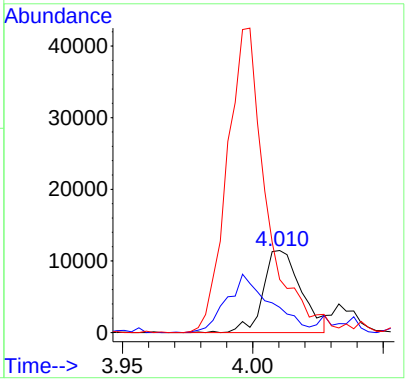


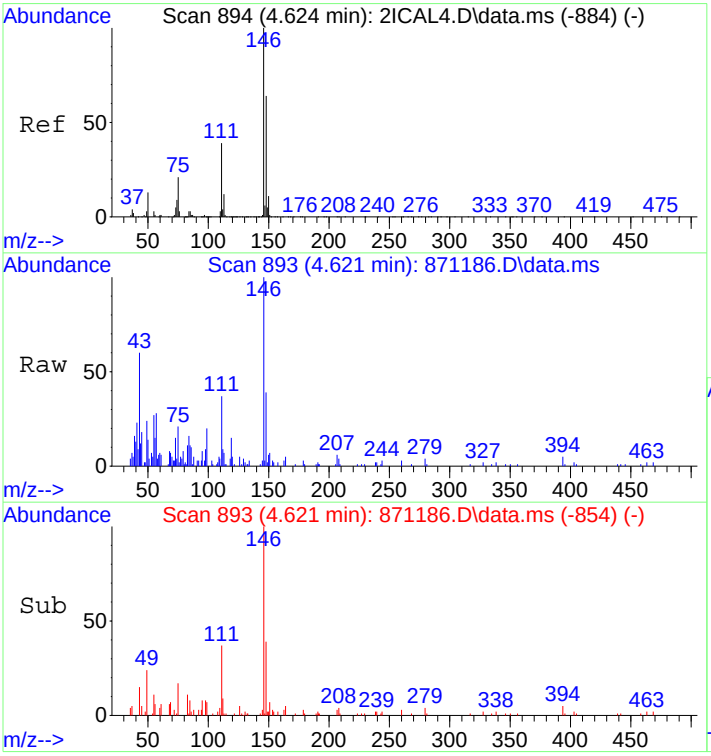


#8
Phenol
Concen: 0.29 ug/mL
RT: 4.010 min Scan# 678
Delta R.T. 0.003 min
Lab File: 871186.D
Acq: 2 Dec 10 9:26 pm

Tgt Ion: 94 Resp: 11594

Ion	Ratio	Lower	Upper
94	100		
65	30.8	1.0	61.0
66	56.6	8.1	68.1

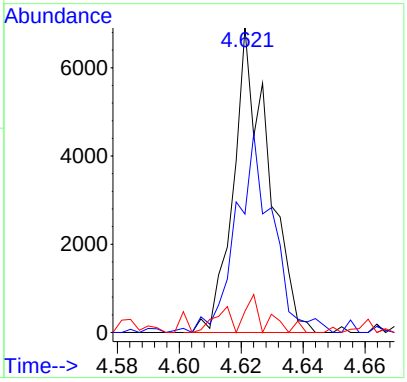


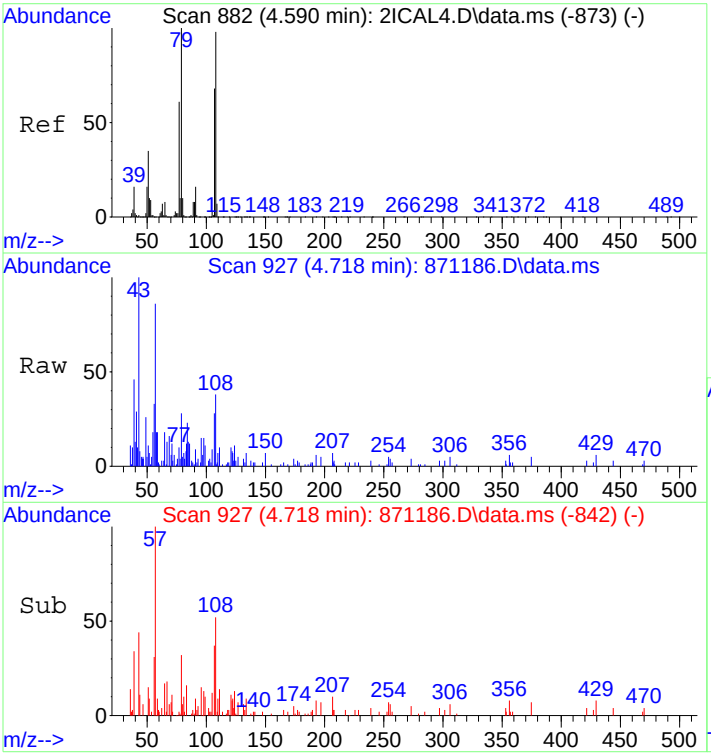


#12
12Diclbenz
Concen: 0.14 ug/mL
RT: 4.621 min Scan# 893
Delta R.T. -0.003 min
Lab File: 871186.D
Acq: 2 Dec 10 9:26 pm

Tgt Ion:146 Resp: 5434

Ion	Ratio	Lower	Upper
146	100		
148	36.4	29.2	89.2
113	6.8	0.0	42.9

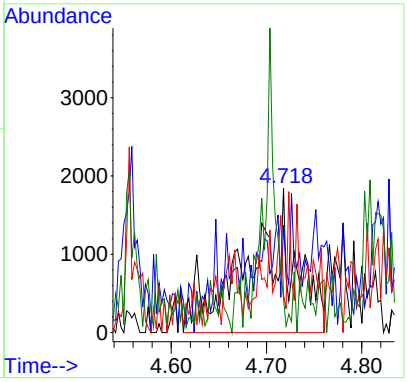


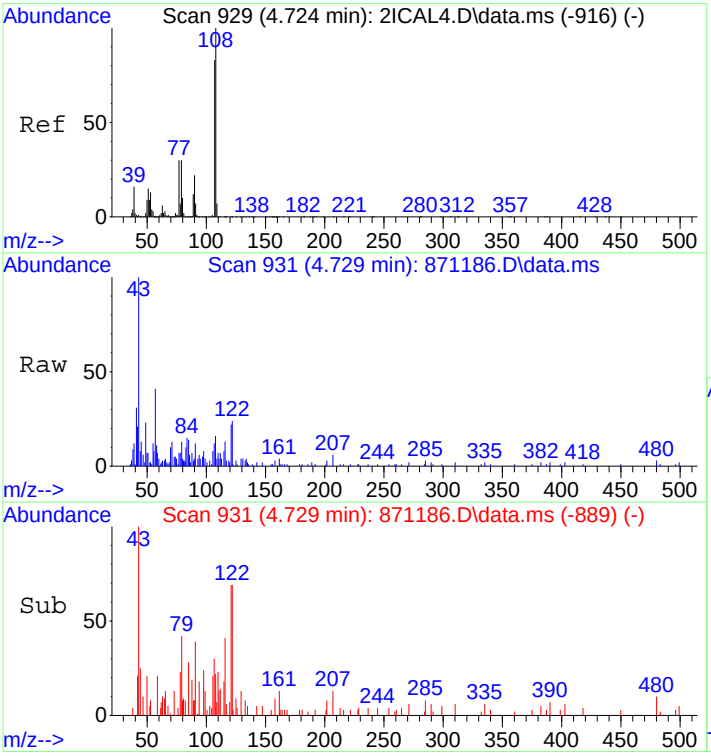


#13
Benzyl alcoho
Concen: 1.25 ug/mL
RT: 4.718 min Scan# 927
Delta R.T. 0.128 min
Lab File: 871186.D
Acq: 2 Dec 10 9:26 pm

Tgt Ion:108 Resp: 6270

Ion	Ratio	Lower	Upper
108	100		
79	51.7	104.2	164.2#
77	26.1	55.1	115.1#
91	1.6	0.0	50.3

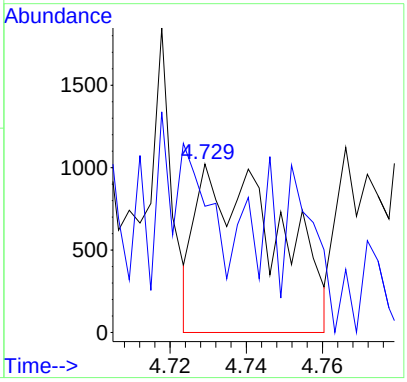


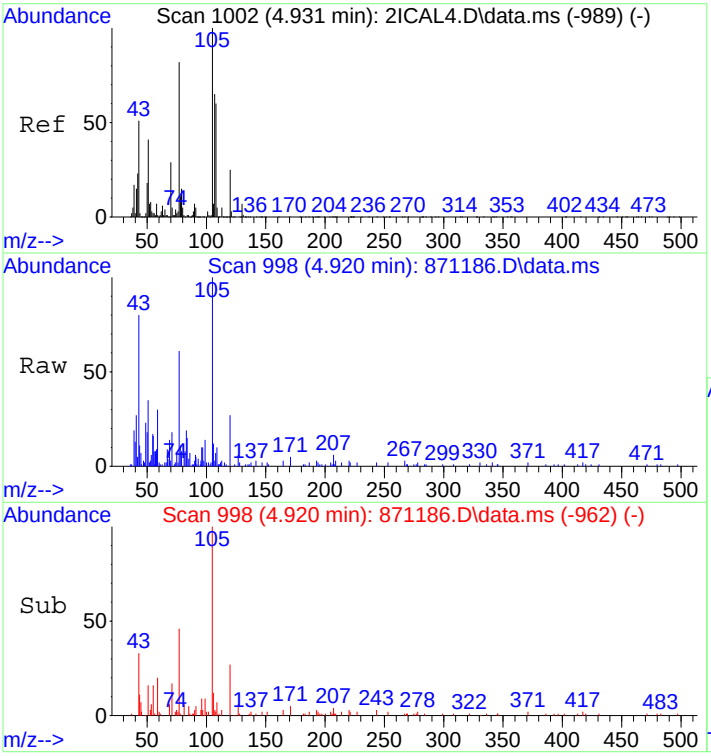


#15
2Methylphenol
Concen: 0.05 ug/mL
RT: 4.729 min Scan# 931
Delta R.T. 0.005 min
Lab File: 871186.D
Acq: 2 Dec 10 9:26 pm

Tgt Ion:108 Resp: 1504

Ion	Ratio	Lower	Upper
108	100		
107	42.9	57.3	117.3#

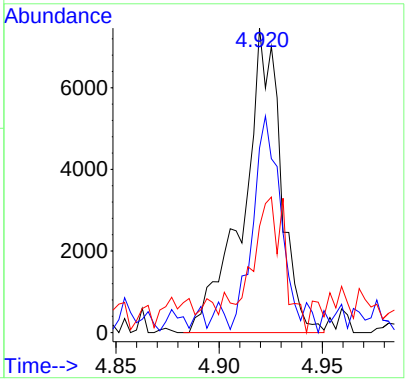


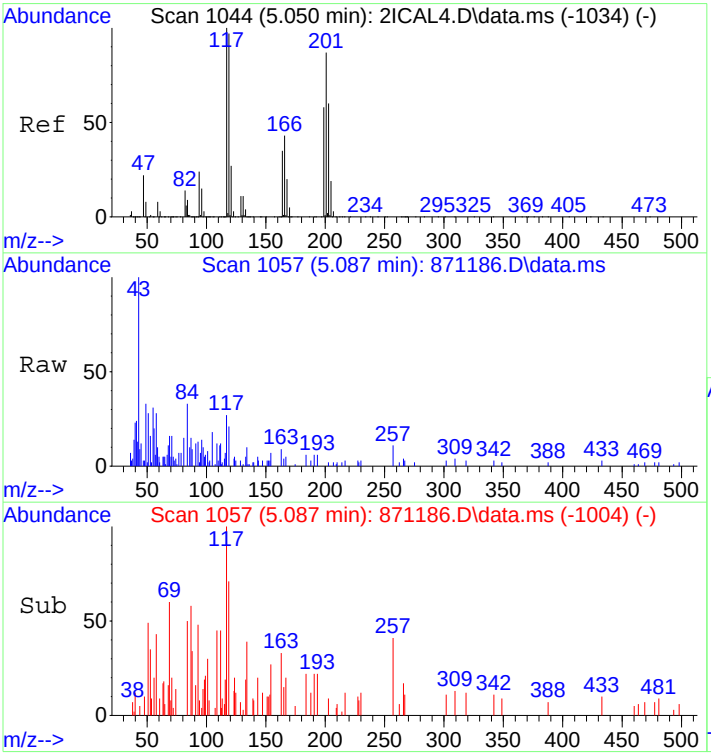


#17
Acetophenone
Concen: 0.21 ug/mL
RT: 4.920 min Scan# 998
Delta R.T. -0.012 min
Lab File: 871186.D
Acq: 2 Dec 10 9:26 pm

Tgt Ion:105 Resp: 9462

Ion	Ratio	Lower	Upper
105	100		
77	54.4	72.2	132.2#
51	36.7	18.8	78.8

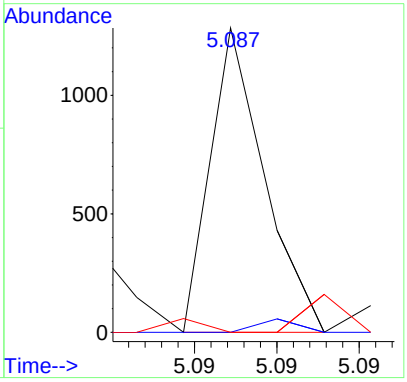


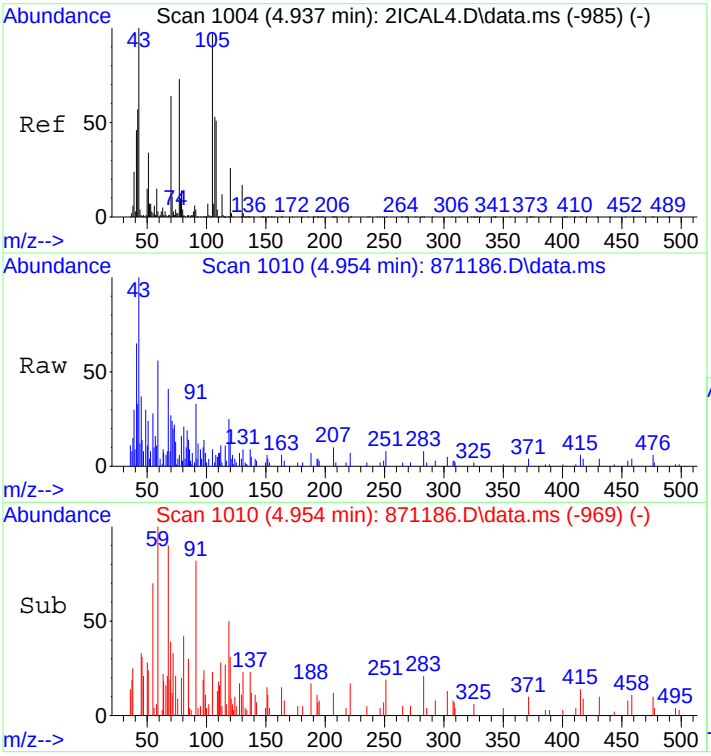


#18
Hexaclethane
Concen: 0.02 ug/mL
RT: 5.087 min Scan# 1057
Delta R.T. 0.037 min
Lab File: 871186.D
Acq: 2 Dec 10 9:26 pm

Tgt Ion:117 Resp: 293

Ion	Ratio	Lower	Upper
117	100		
201	0.0	64.1	124.1#
199	0.0	28.3	88.3#

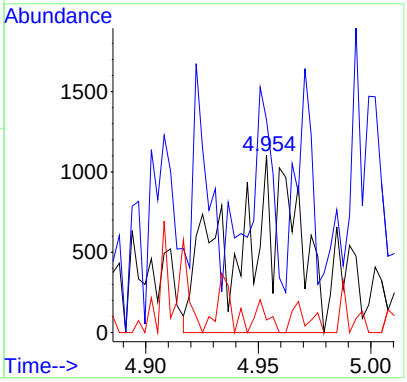


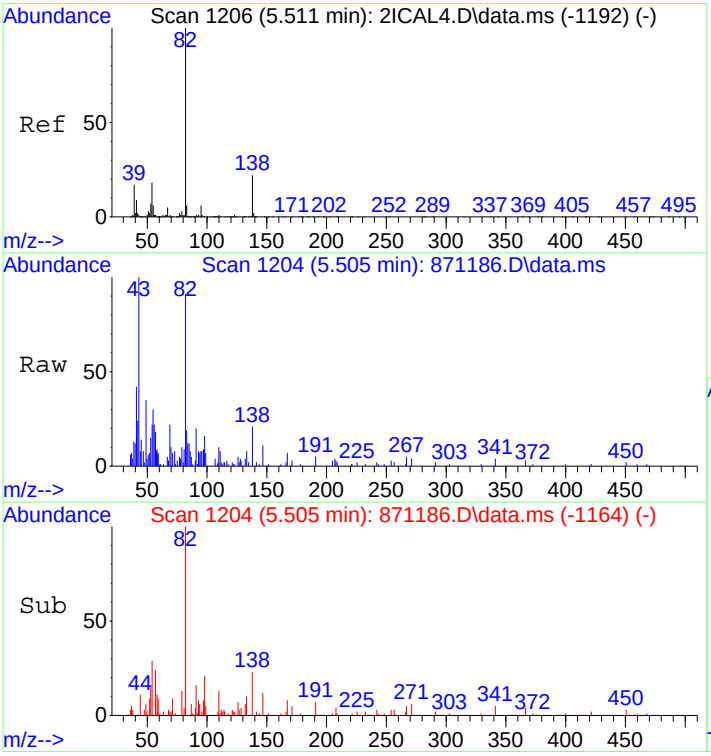


#19
N-Ntrsdinprop
Concen: 0.11 ug/mL
RT: 4.954 min Scan# 1010
Delta R.T. 0.017 min
Lab File: 871186.D
Acq: 2 Dec 10 9:26 pm

Tgt Ion: 70 Resp: 2130

Ion	Ratio	Lower	Upper
70	100		
42	86.5	54.3	114.3
113	7.1	0.0	43.5

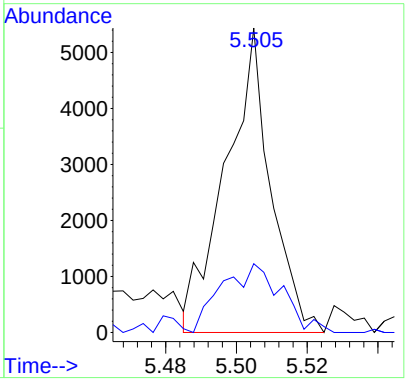


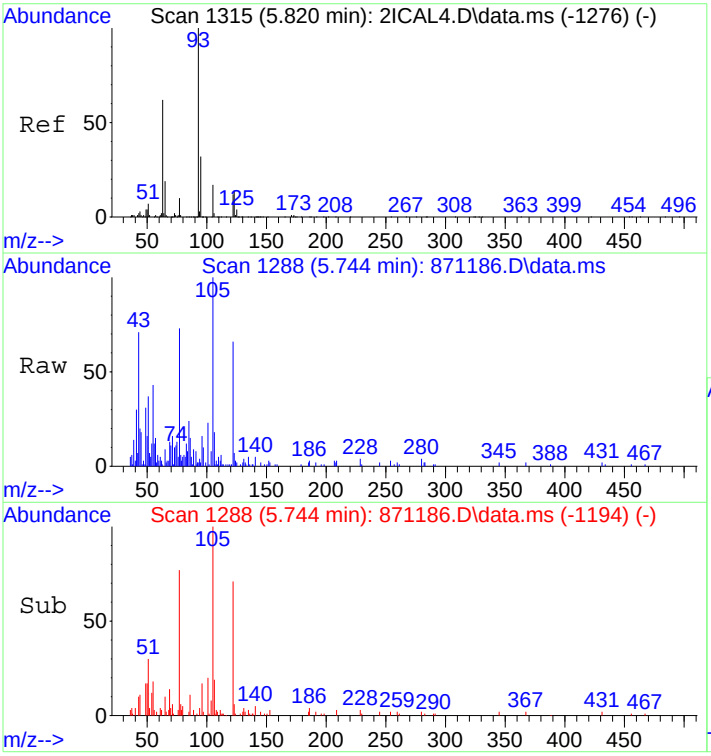


#24
Isophorone
Concen: 0.07 ug/mL
RT: 5.505 min Scan# 1204
Delta R.T. -0.006 min
Lab File: 871186.D
Acq: 2 Dec 10 9:26 pm

Tgt Ion: 82 Resp: 4797

Ion	Ratio	Lower	Upper
82	100		
138	21.3	0.0	48.8

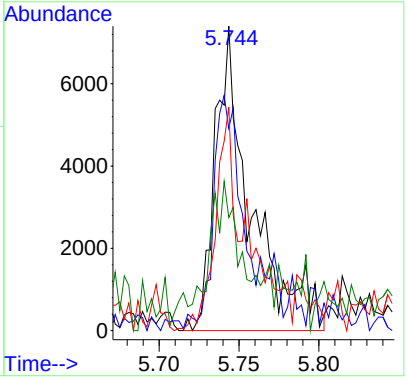


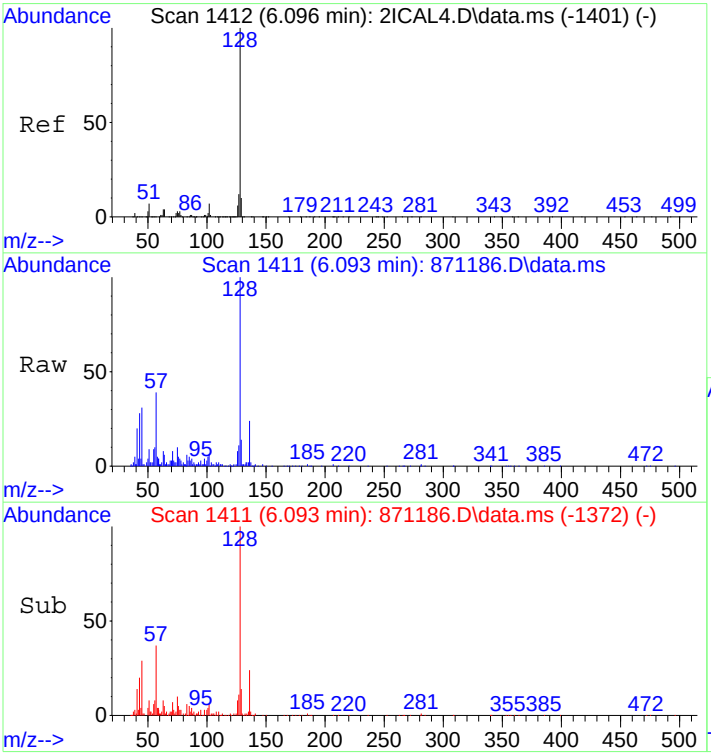


#30
Benzoic acid
Concen: 3.35 ug/mL
RT: 5.744 min Scan# 1288
Delta R.T. -0.006 min
Lab File: 871186.D
Acq: 2 Dec 10 9:26 pm

Tgt Ion:105 Resp: 11589

Ion	Ratio	Lower	Upper
105	100		
122	65.8	54.1	114.1
77	72.7	45.9	105.9
51	24.7	17.6	77.6

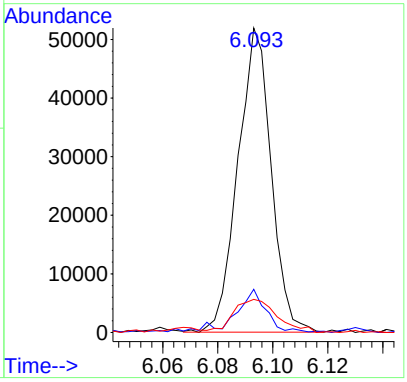


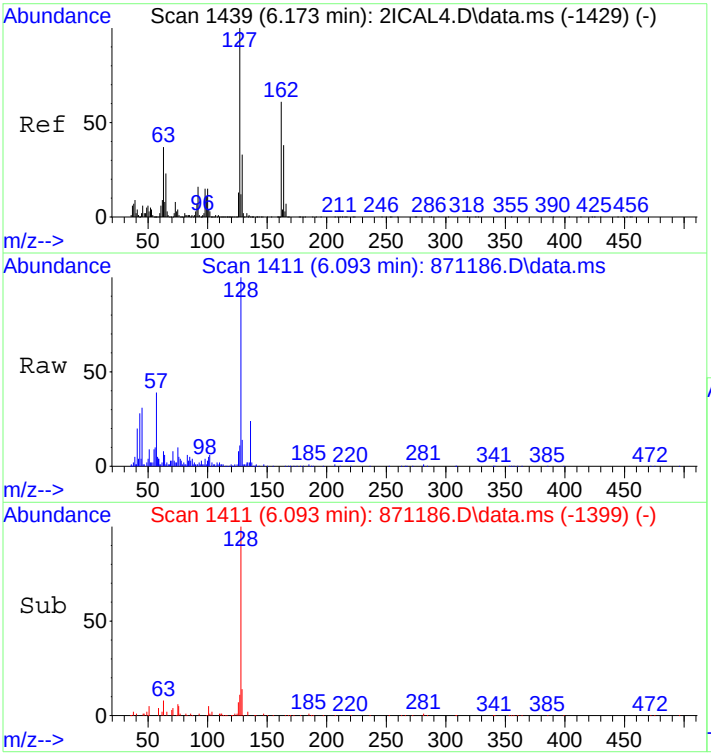


#31
Naphthalene
Concen: 0.34 ug/mL
RT: 6.093 min Scan# 1411
Delta R.T. -0.003 min
Lab File: 871186.D
Acq: 2 Dec 10 9:26 pm

Tgt Ion:128 Resp: 43558

Ion	Ratio	Lower	Upper
128	100		
129	13.8	0.0	40.3
127	10.7	0.0	41.9

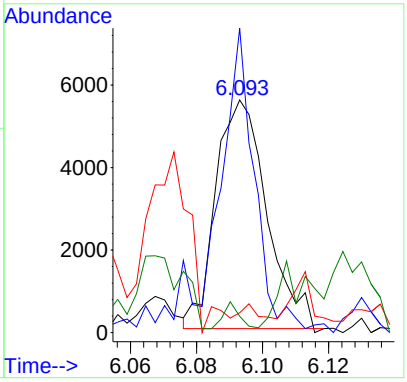


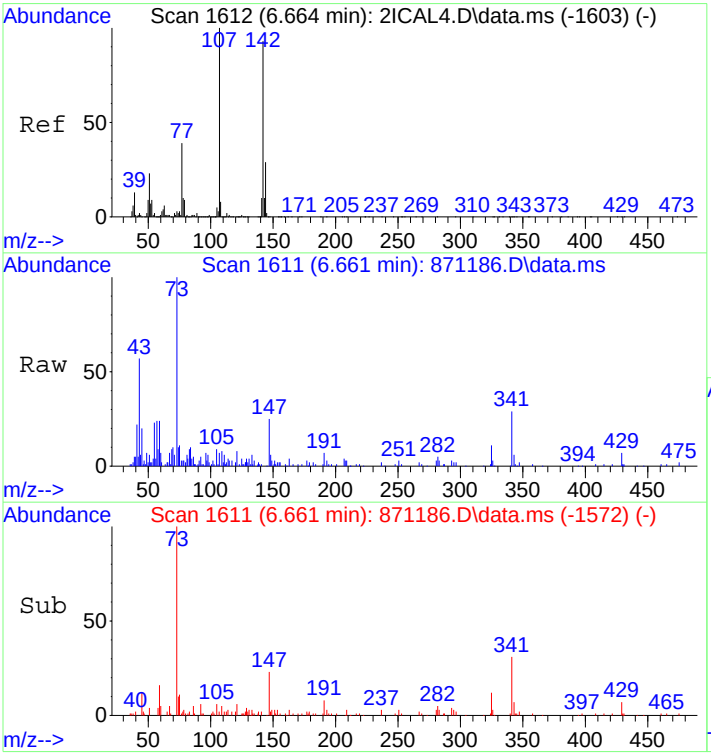


#32
4-Cl-aniline
Concen: 0.12 ug/mL
RT: 6.093 min Scan# 1411
Delta R.T. -0.080 min
Lab File: 871186.D
Acq: 2 Dec 10 9:26 pm

Tgt Ion:127 Resp: 5954

Ion	Ratio	Lower	Upper
127	100		
129	129.3	1.8	61.8#
65	2.2	1.6	61.6
92	0.0	0.0	48.2

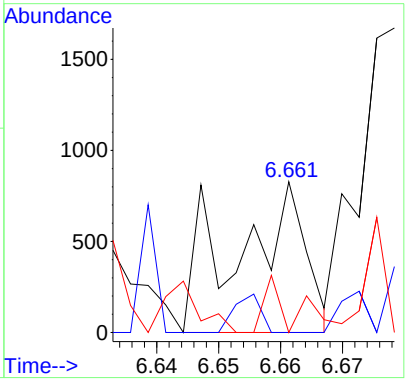


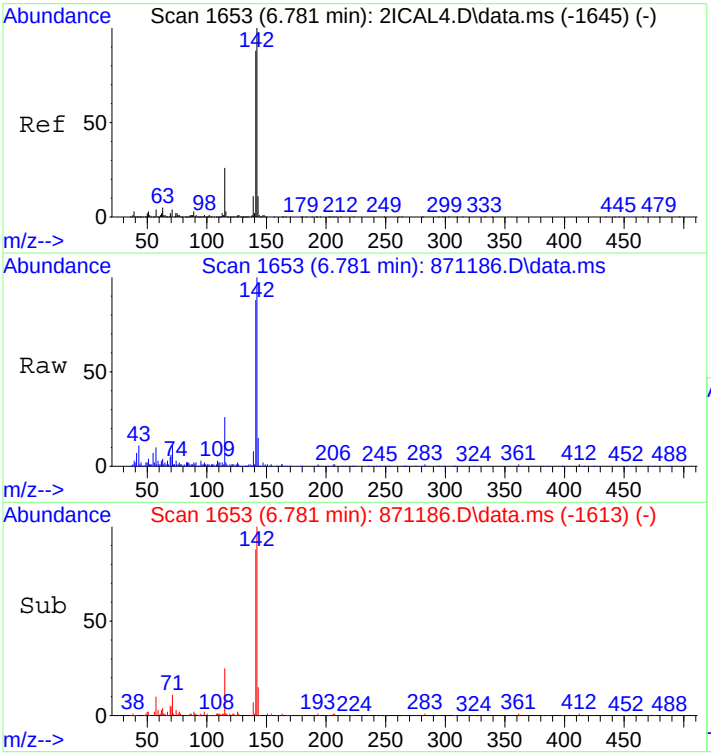


#36
4Cl3methylphe
Concen: 0.02 ug/mL
RT: 6.661 min Scan# 1611
Delta R.T. -0.003 min
Lab File: 871186.D
Acq: 2 Dec 10 9:26 pm

Tgt Ion:107 Resp: 634

Ion	Ratio	Lower	Upper
107	100		
142	0.0	50.0	110.0#
144	0.0	0.0	56.8

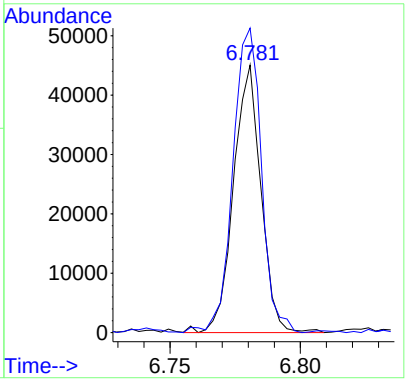


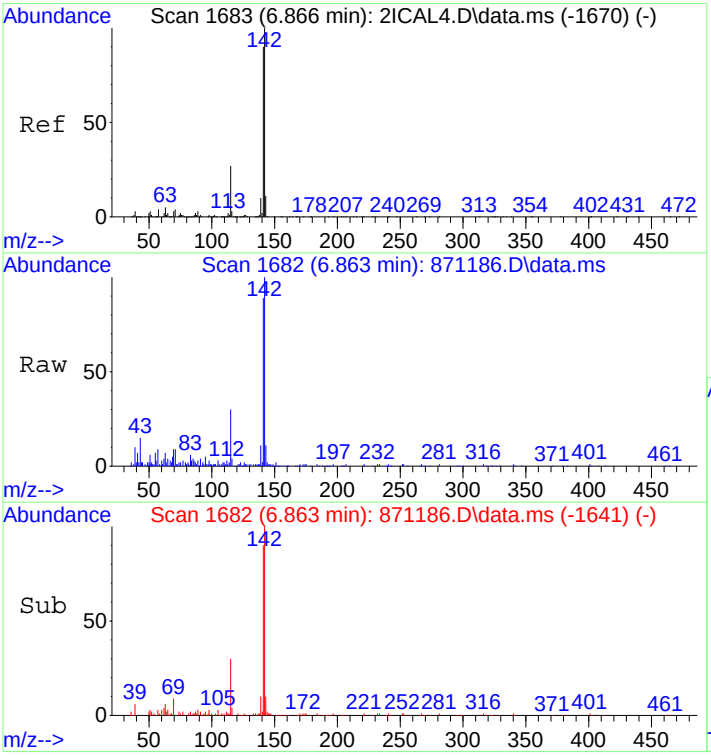


#37
2Methylnaphth
Concen: 0.47 ug/mL
RT: 6.781 min Scan# 1653
Delta R.T. -0.000 min
Lab File: 871186.D
Acq: 2 Dec 10 9:26 pm

Tgt Ion:141 Resp: 33068

Ion	Ratio	Lower	Upper
141	100		
142	114.0	83.7	143.7

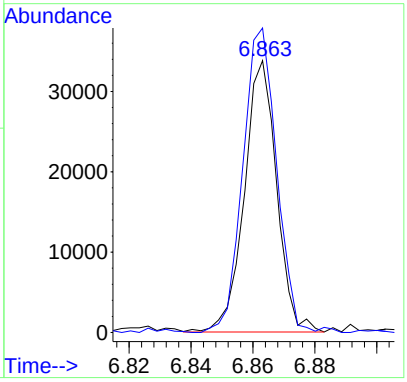


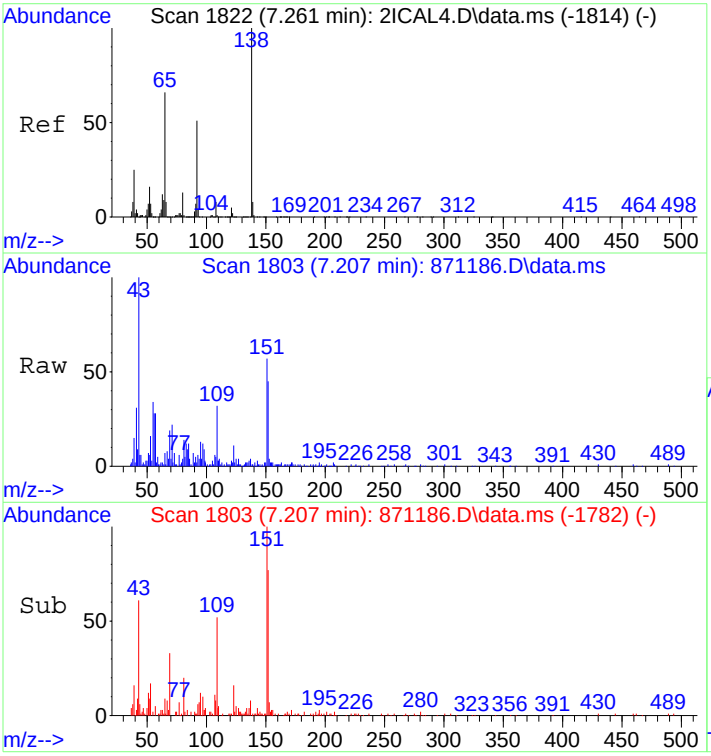


#38
1Methylnaphth
Concen: 0.33 ug/mL
RT: 6.863 min Scan# 1682
Delta R.T. -0.003 min
Lab File: 871186.D
Acq: 2 Dec 10 9:26 pm

Tgt Ion:141 Resp: 24509

Ion	Ratio	Lower	Upper
141	100		
142	111.9	79.5	139.5

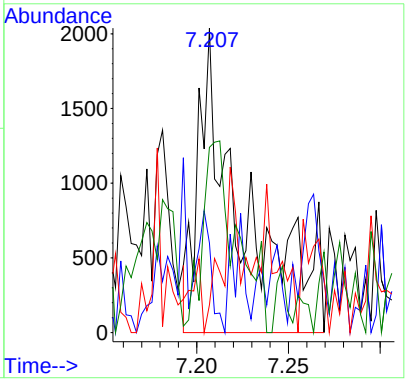


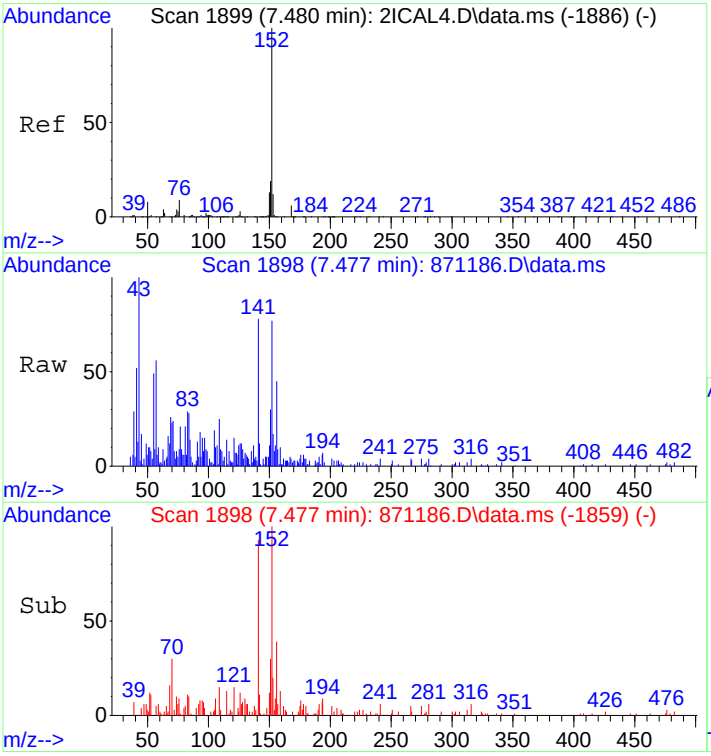


#46
2Nitroaniline
Concen: 0.19 ug/mL
RT: 7.207 min Scan# 1803
Delta R.T. -0.054 min
Lab File: 871186.D
Acq: 2 Dec 10 9:26 pm

Tgt Ion: 65 Resp: 3444

Ion	Ratio	Lower	Upper
65	100		
92	11.4	32.1	92.1#
138	0.0	73.8	133.8#
80	53.4	0.0	55.1

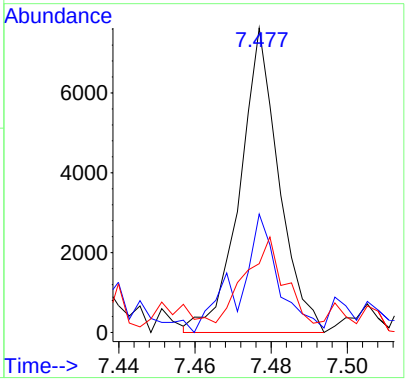


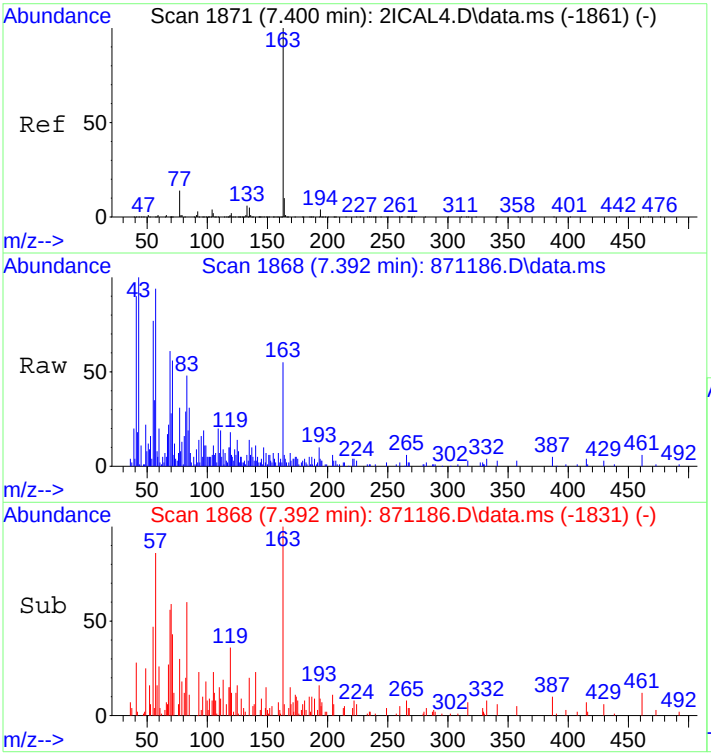


#47
Acnaphthylene
Concen: 0.04 ug/mL
RT: 7.477 min Scan# 1898
Delta R.T. -0.003 min
Lab File: 871186.D
Acq: 2 Dec 10 9:26 pm

Tgt Ion:152 Resp: 5423

Ion	Ratio	Lower	Upper
152	100		
151	38.2	0.0	49.5
153	13.6	0.0	43.0

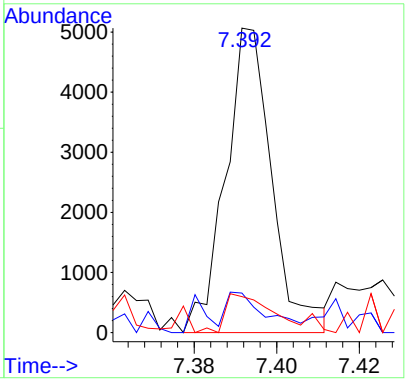


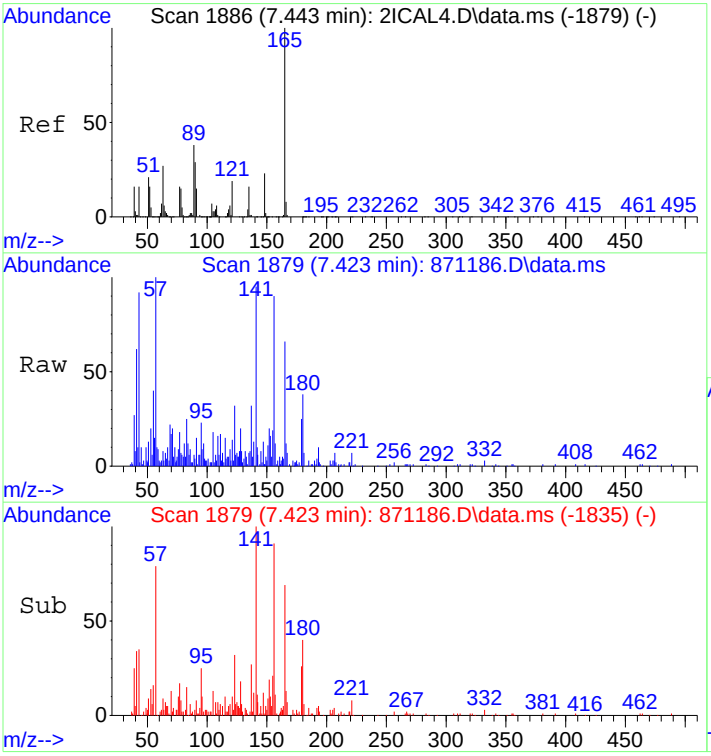


#48
Dimethylphtha
Concen: 0.04 ug/mL
RT: 7.392 min Scan# 1868
Delta R.T. -0.009 min
Lab File: 871186.D
Acq: 2 Dec 10 9:26 pm

Tgt Ion:163 Resp: 3962

Ion	Ratio	Lower	Upper
163	100		
194	13.0	0.0	34.0
164	10.8	0.0	40.3

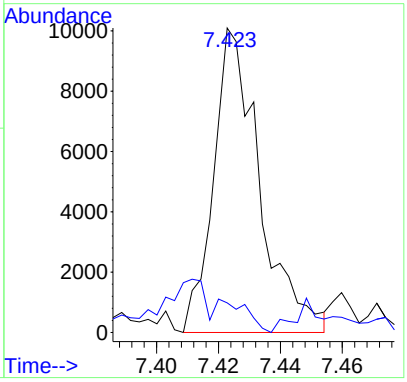


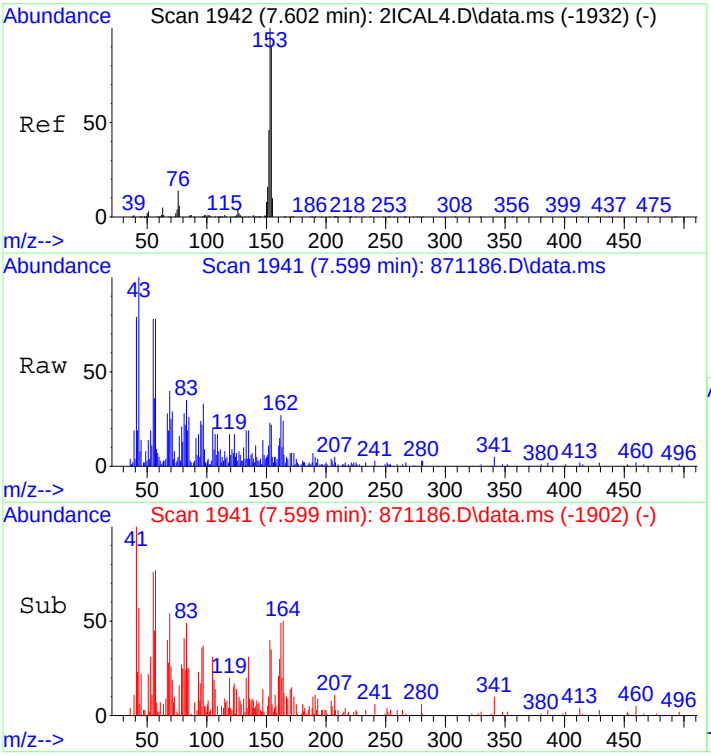


#49
26Dinitrotolu
Concen: 0.54 ug/mL
RT: 7.423 min Scan# 1879
Delta R.T. -0.020 min
Lab File: 871186.D
Acq: 2 Dec 10 9:26 pm

Tgt Ion:165 Resp: 10473

Ion	Ratio	Lower	Upper
165	100		
89	10.8	20.8	80.8#

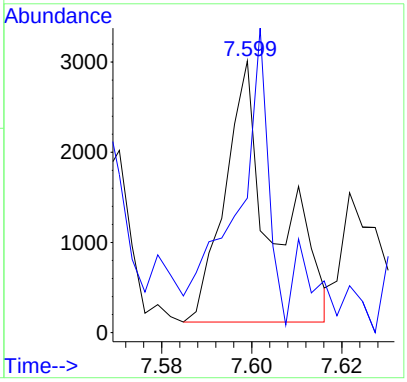


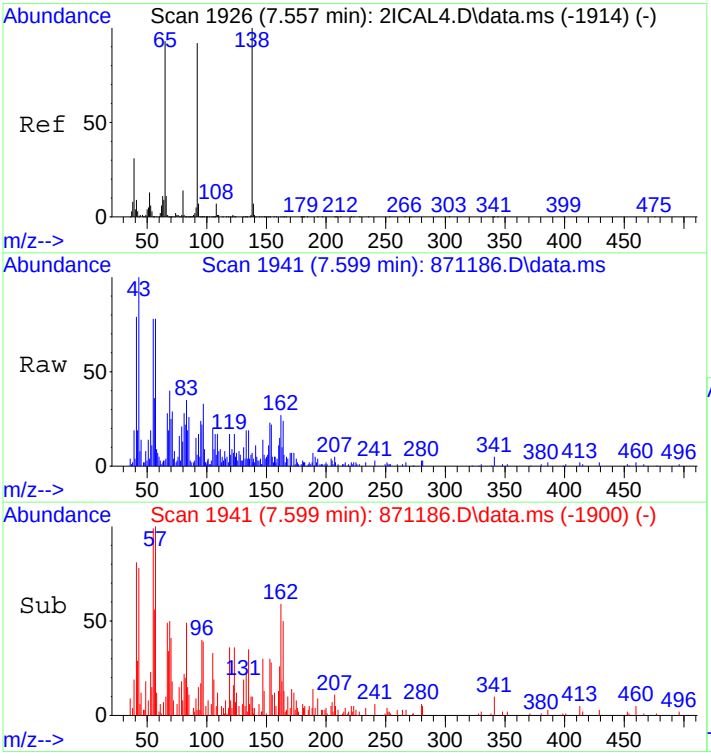


#50
Acenaphthene
Concen: 0.03 ug/mL
RT: 7.599 min Scan# 1941
Delta R.T. -0.003 min
Lab File: 871186.D
Acq: 2 Dec 10 9:26 pm

Tgt Ion:153 Resp: 2140

Ion	Ratio	Lower	Upper
153	100		
152	37.5	15.5	75.5

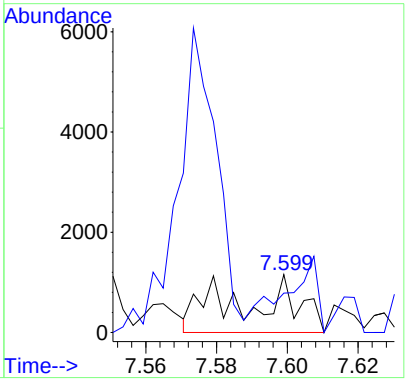


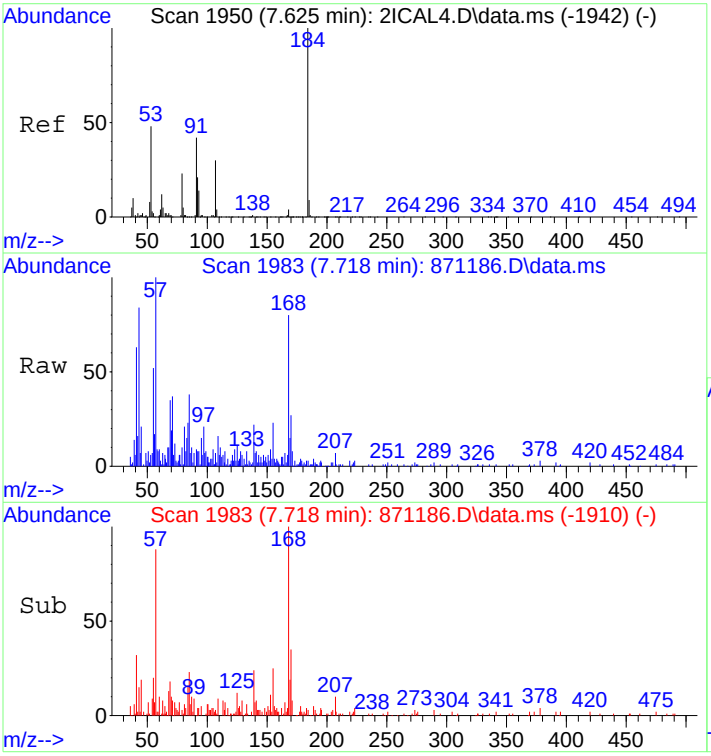


#51
3Nitroaniline
Concen: 0.06 ug/mL
RT: 7.599 min Scan# 1941
Delta R.T. 0.042 min
Lab File: 871186.D
Acq: 2 Dec 10 9:26 pm

Tgt Ion:138 Resp: 1311

Ion	Ratio	Lower	Upper
138	100		
92	67.9	74.6	134.6#

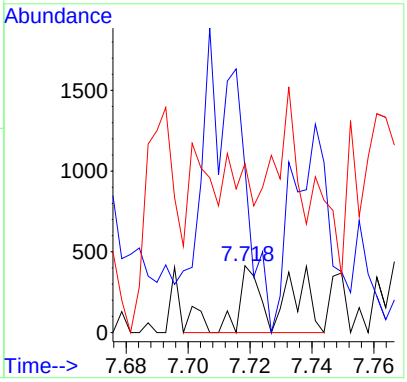


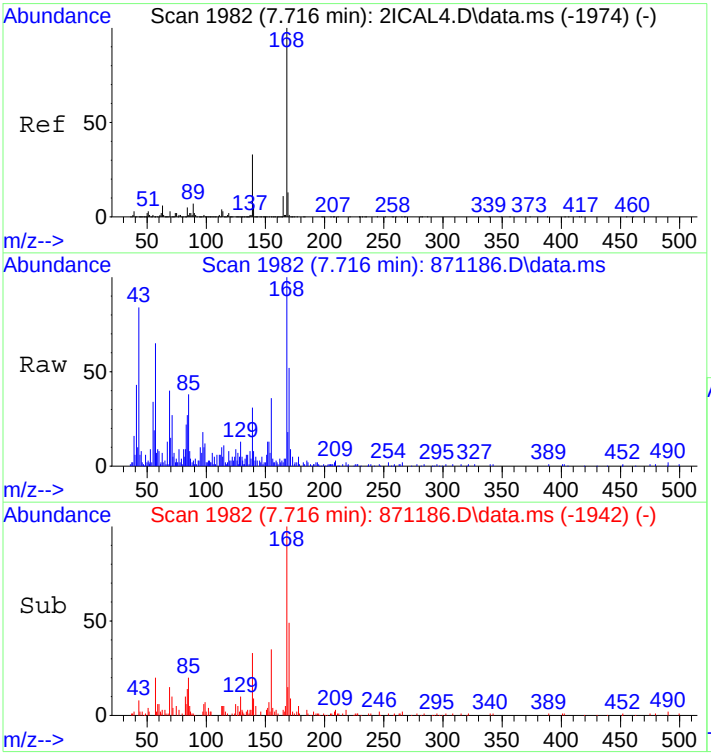


#52
24Dinitphenol
Concen: 2.41 ug/mL
RT: 7.718 min Scan# 1983
Delta R.T. 0.094 min
Lab File: 871186.D
Acq: 2 Dec 10 9:26 pm

Tgt Ion:184 Resp: 428

Ion	Ratio	Lower	Upper
184	100		
63	246.4	44.6	104.6#
107	252.7	13.0	73.0#

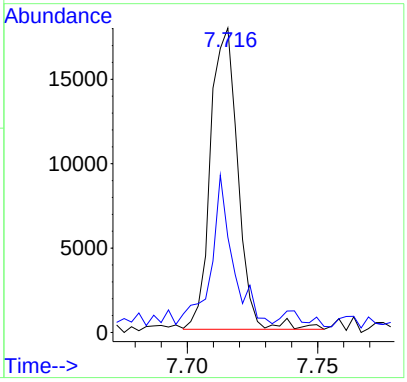


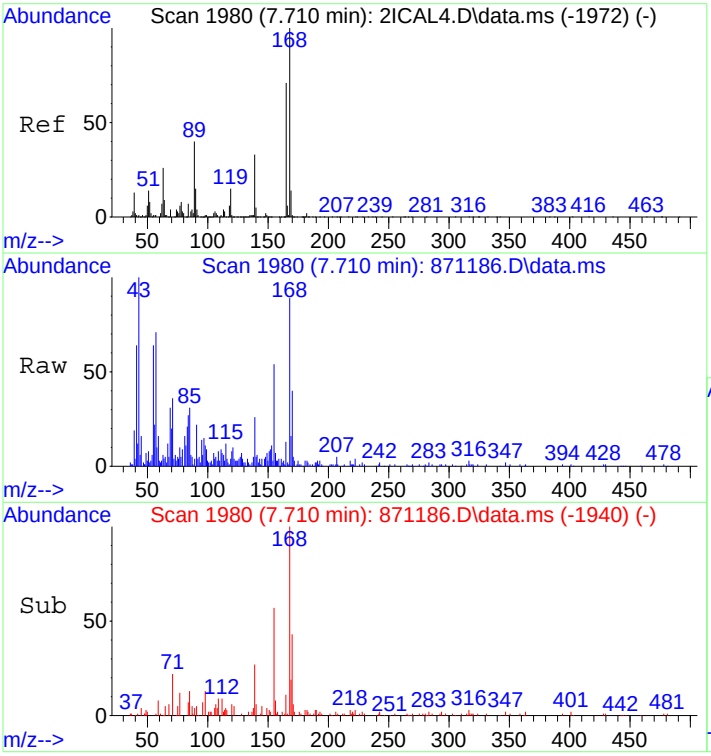


#53
Dibenzofuran
Concen: 0.12 ug/mL
RT: 7.716 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 871186.D
Acq: 2 Dec 10 9:26 pm

Tgt Ion:168 Resp: 13055

Ion	Ratio	Lower	Upper
168	100		
139	29.6	7.1	67.1

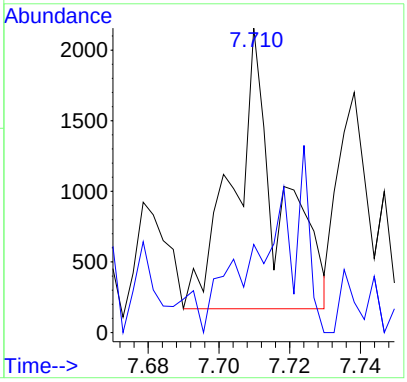


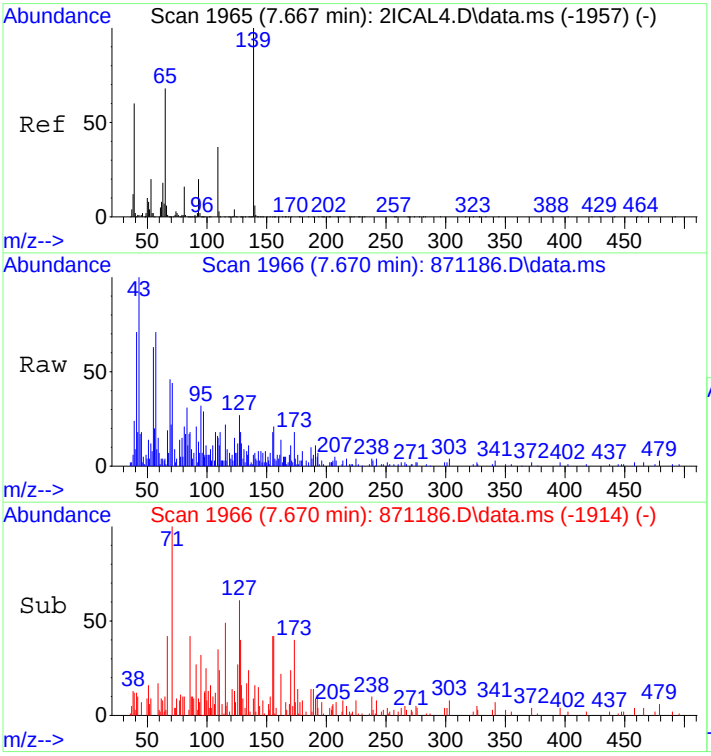


#54
24Dinitrotolu
Concen: 0.07 ug/mL
RT: 7.710 min Scan# 1980
Delta R.T. -0.000 min
Lab File: 871186.D
Acq: 2 Dec 10 9:26 pm

Tgt Ion:165 Resp: 1761

Ion	Ratio	Lower	Upper
165	100		
89	31.4	41.4	101.4#

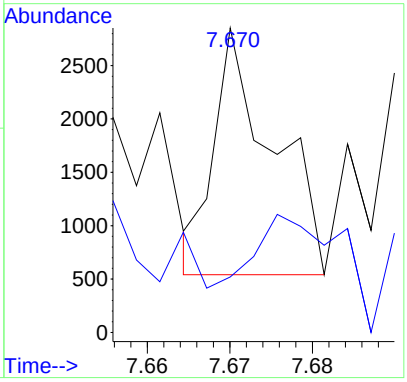


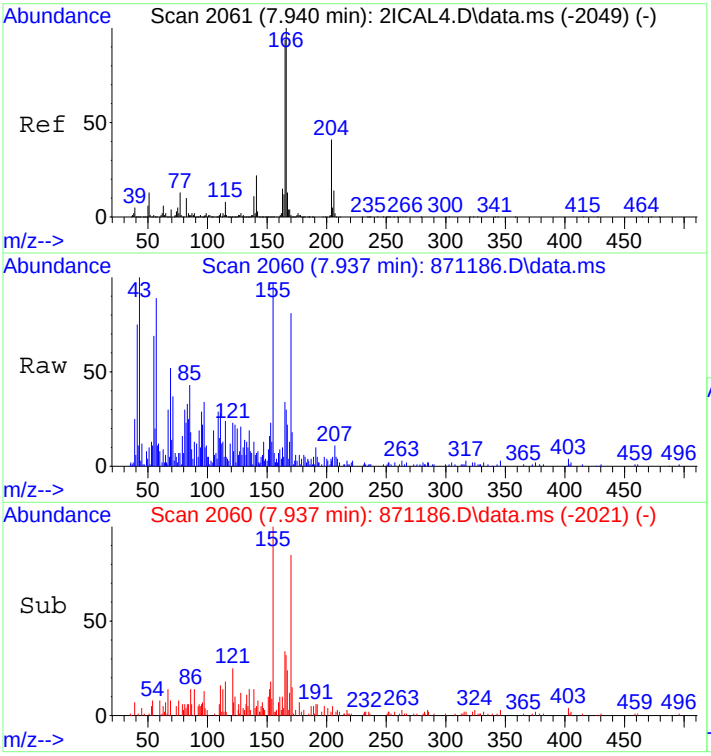


#55
4-Nitrophenol
Concen: 0.17 ug/mL
RT: 7.670 min Scan# 1966
Delta R.T. 0.003 min
Lab File: 871186.D
Acq: 2 Dec 10 9:26 pm

Tgt Ion:109 Resp: 1141

Ion	Ratio	Lower	Upper
109	100		
65	0.0	123.5	183.5#

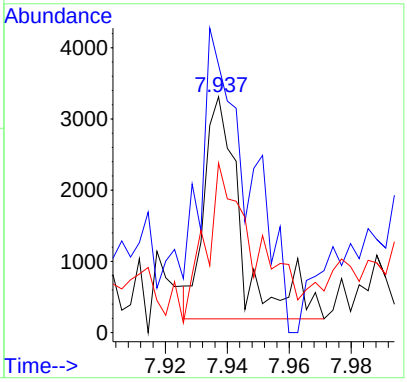


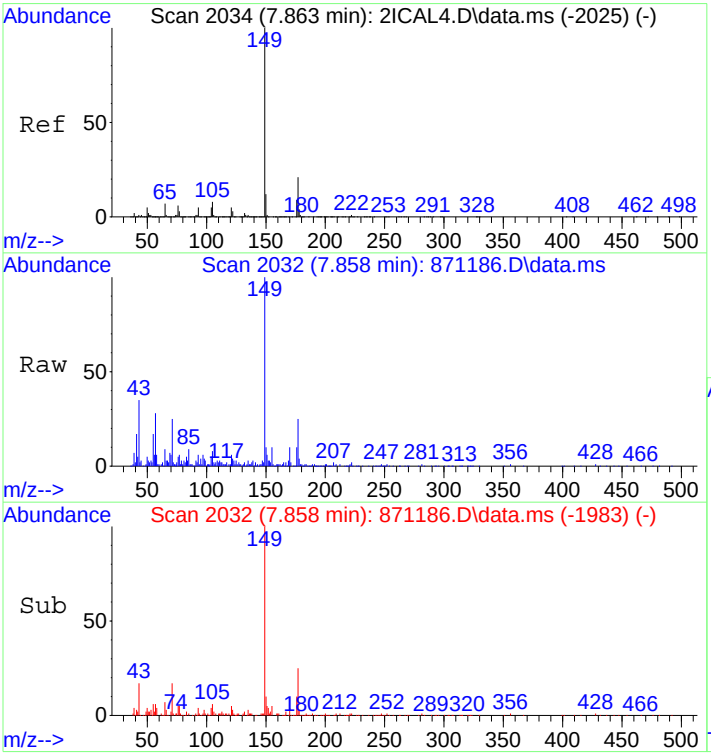


#58
Fluorene
Concen: 0.03 ug/mL
RT: 7.937 min Scan# 2060
Delta R.T. -0.003 min
Lab File: 871186.D
Acq: 2 Dec 10 9:26 pm

Tgt Ion:166 Resp: 2595

Ion	Ratio	Lower	Upper
166	100		
165	92.7	64.5	124.5
167	72.1	0.0	42.6#

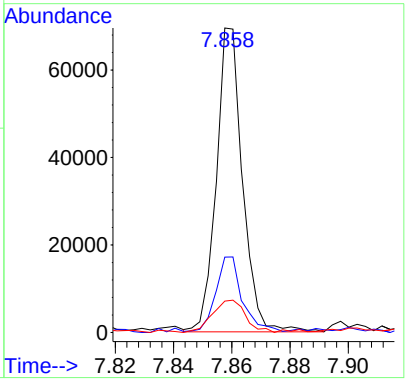


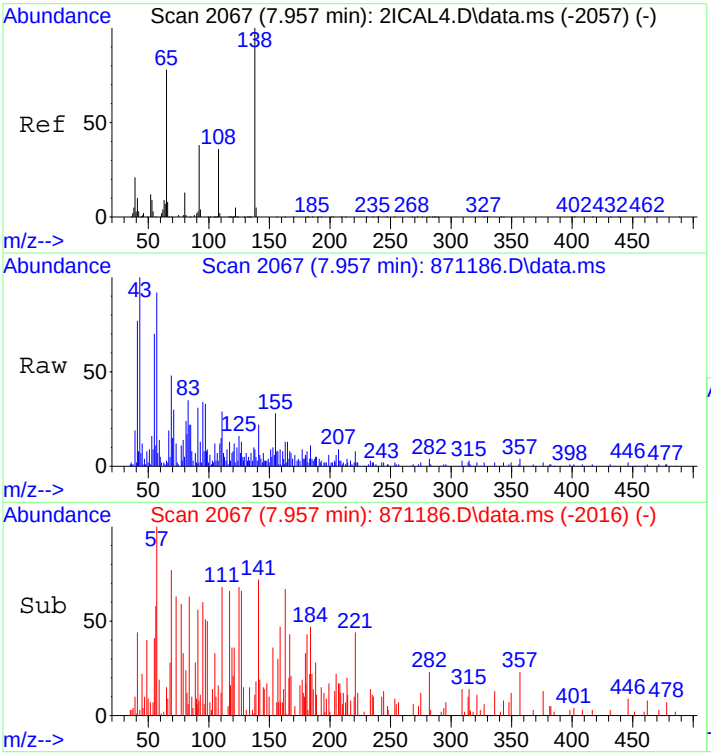


#60
Diethylphthal
Concen: 0.48 ug/mL
RT: 7.858 min Scan# 2032
Delta R.T. -0.006 min
Lab File: 871186.D
Acq: 2 Dec 10 9:26 pm

Tgt Ion:149 Resp: 43566

Ion	Ratio	Lower	Upper
149	100		
177	24.4	0.0	52.2
150	10.3	0.0	42.5

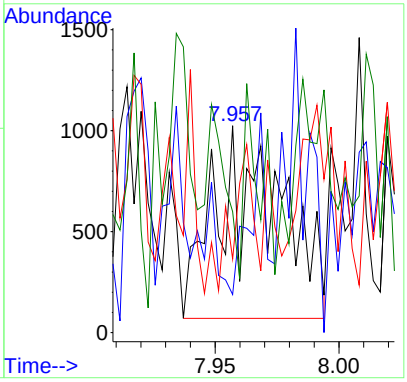


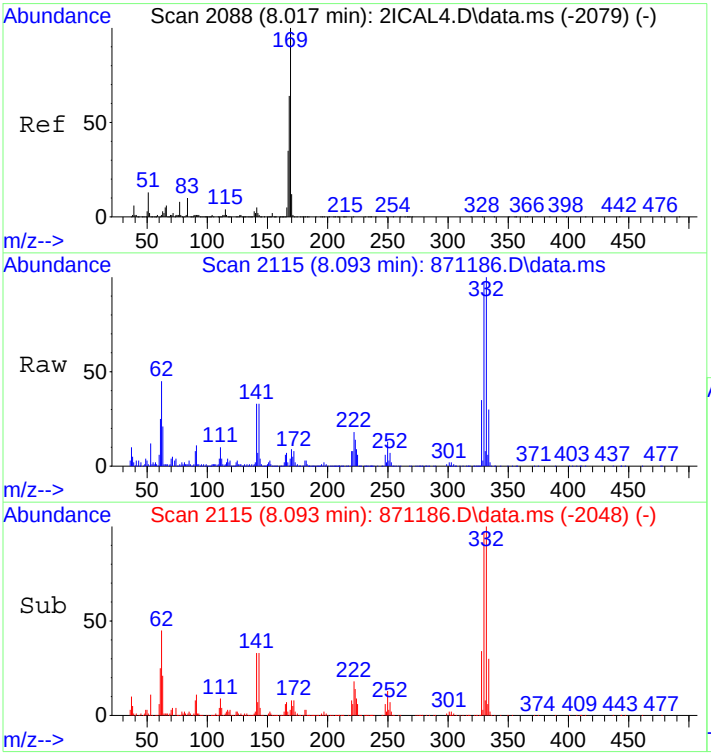


#61
4Nitroaniline
Concen: 0.08 ug/mL
RT: 7.957 min Scan# 2067
Delta R.T. -0.000 min
Lab File: 871186.D
Acq: 2 Dec 10 9:26 pm

Tgt Ion:138 Resp: 1715

Ion	Ratio	Lower	Upper
138	100		
92	19.8	19.9	79.9#
108	0.0	39.4	99.4#
139	0.0	0.0	41.3

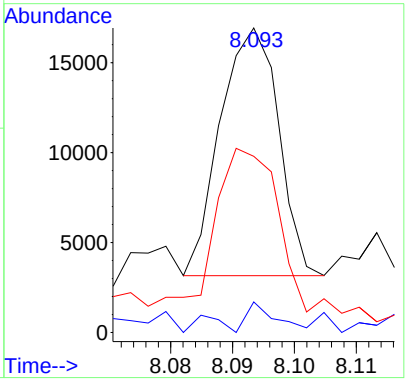


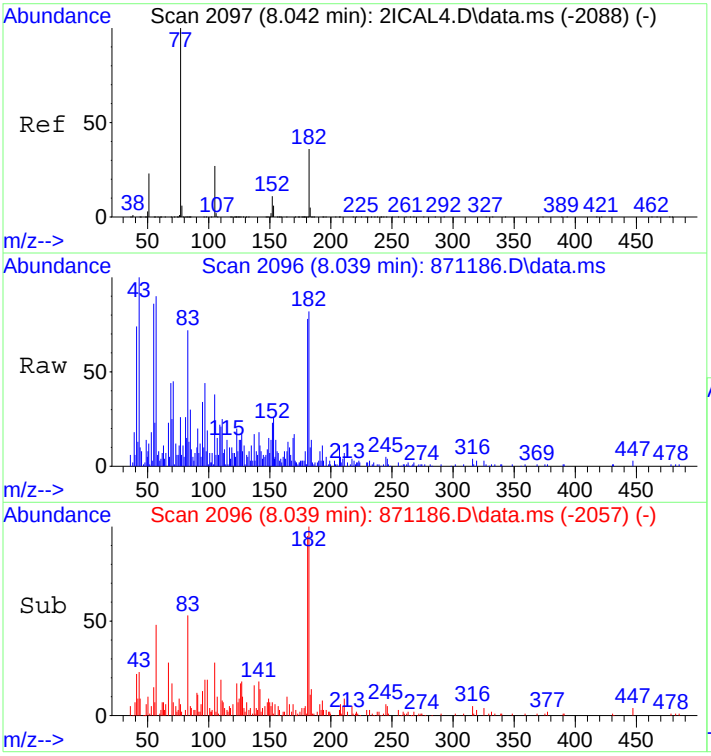


#65
Ntrsdiphlam&Diphlam
Concen: 0.15 ug/mL
RT: 8.093 min Scan# 2115
Delta R.T. 0.076 min
Lab File: 871186.D
Acq: 2 Dec 10 9:26 pm

Tgt Ion:169 Resp: 8997

Ion	Ratio	Lower	Upper
169	100		
168	12.4	34.8	94.8#
167	57.5	4.6	64.6

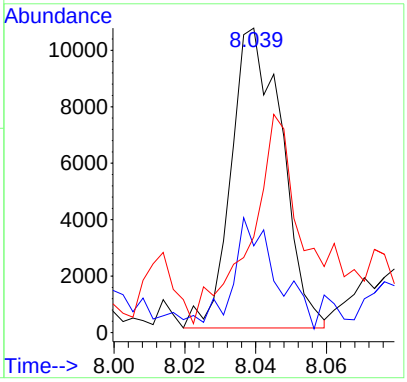


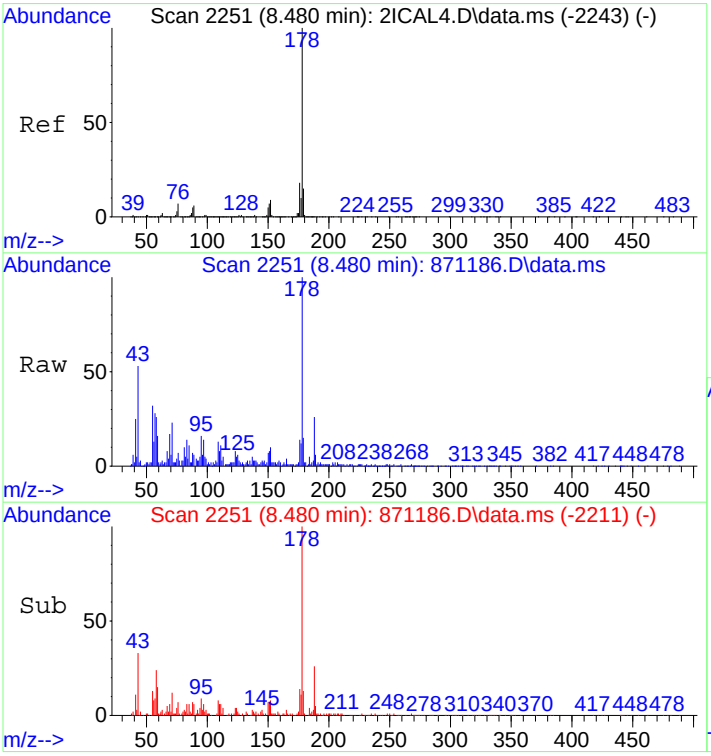


#66
Azobenz&12Diphlhyd
Concen: 0.47 ug/mL
RT: 8.039 min Scan# 2096
Delta R.T. -0.003 min
Lab File: 871186.D
Acq: 2 Dec 10 9:26 pm

Tgt Ion:182 Resp: 10579

Ion	Ratio	Lower	Upper
182	100		
152	24.6	3.5	63.5
77	20.9	348.6	408.6#

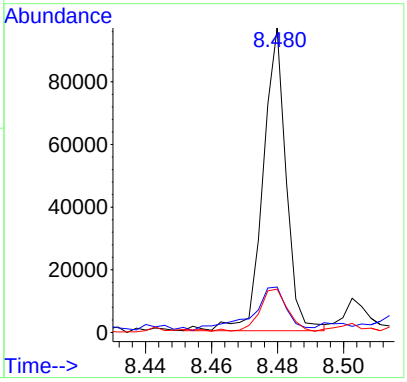


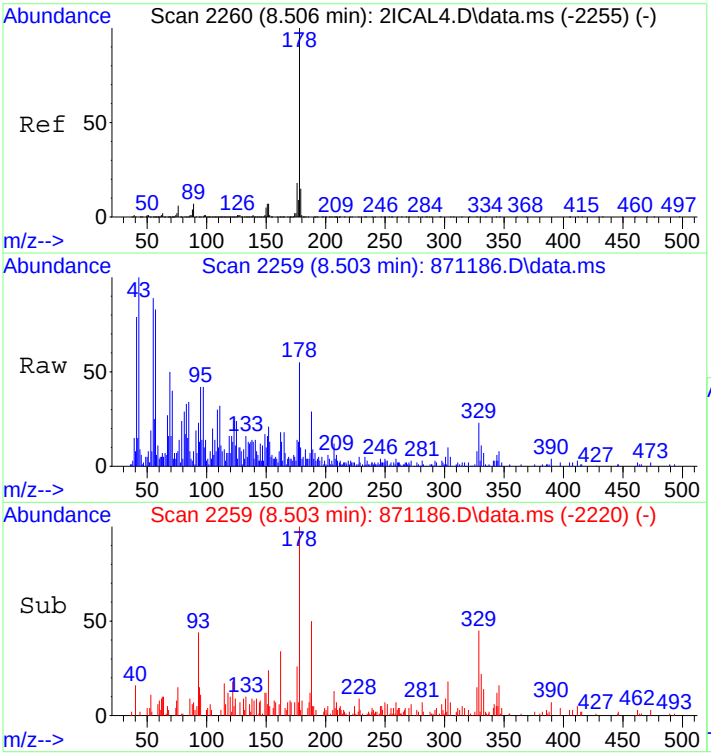


#70
Phenanthrene
Concen: 0.44 ug/mL
RT: 8.480 min Scan# 2251
Delta R.T. -0.000 min
Lab File: 871186.D
Acq: 2 Dec 10 9:26 pm

Tgt Ion:178 Resp: 47045

Ion	Ratio	Lower	Upper
178	100		
179	13.3	0.0	44.4
176	13.3	0.0	48.0

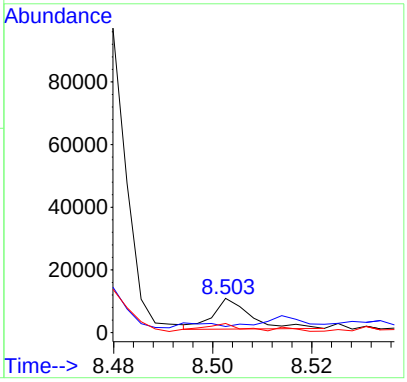


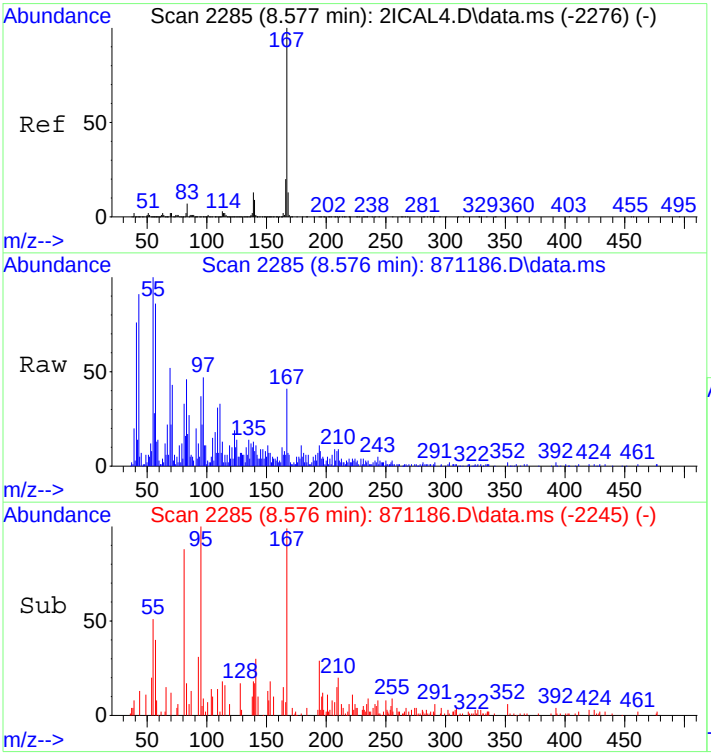


#71
Anthracene
Concen: 0.05 ug/mL
RT: 8.503 min Scan# 2259
Delta R.T. -0.003 min
Lab File: 871186.D
Acq: 2 Dec 10 9:26 pm

Tgt Ion:178 Resp: 5173

Ion	Ratio	Lower	Upper
178	100		
179	0.0	0.0	45.0
176	25.2	0.0	48.4

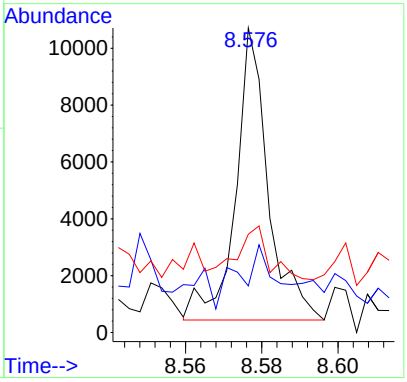


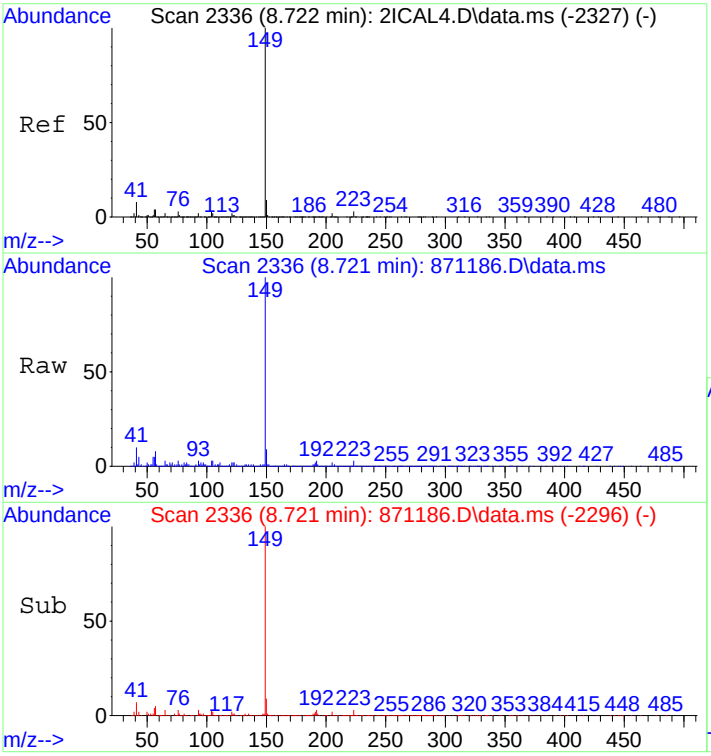


#72
Carbazole
Concen: 0.07 ug/mL
RT: 8.576 min Scan# 2285
Delta R.T. -0.000 min
Lab File: 871186.D
Acq: 2 Dec 10 9:26 pm

Tgt Ion:167 Resp: 6091

Ion	Ratio	Lower	Upper
167	100		
166	2.2	0.0	50.6
139	13.9	0.0	43.0

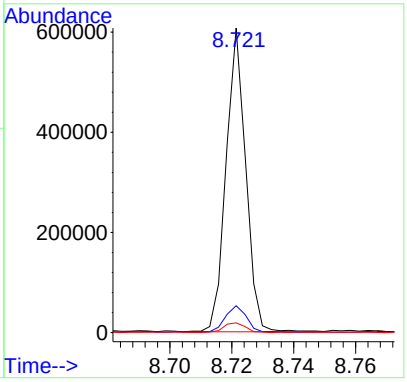


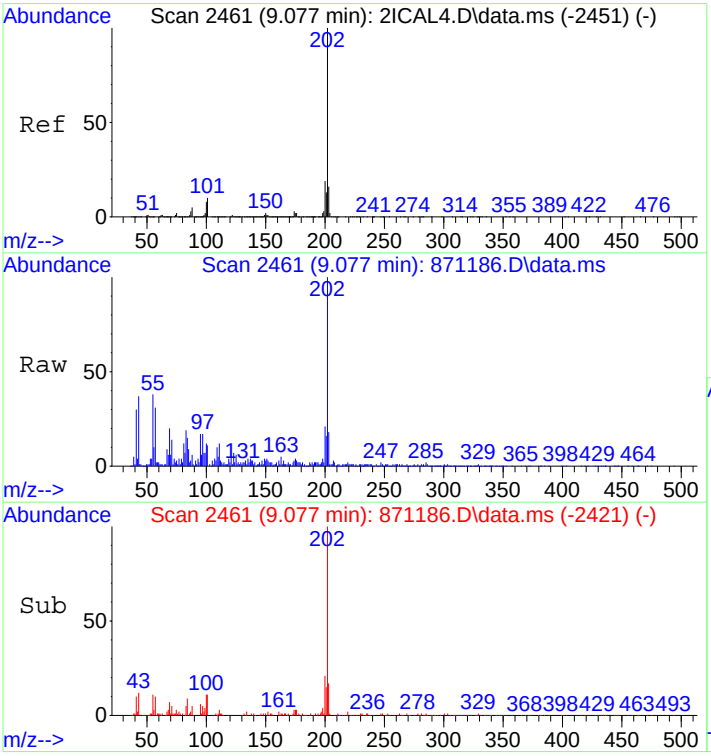


#73
Dinbtylphthal
Concen: 2.17 ug/mL
RT: 8.721 min Scan# 2336
Delta R.T. -0.000 min
Lab File: 871186.D
Acq: 2 Dec 10 9:26 pm

Tgt Ion:149 Resp: 268701

Ion	Ratio	Lower	Upper
149	100		
150	8.6	0.0	38.5
104	3.1	0.0	34.3

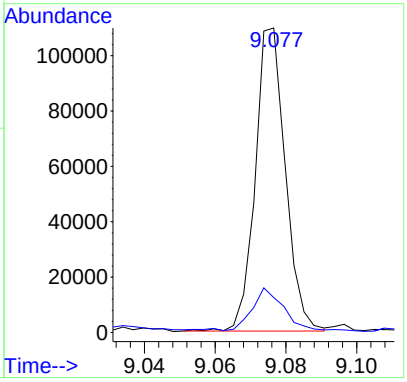


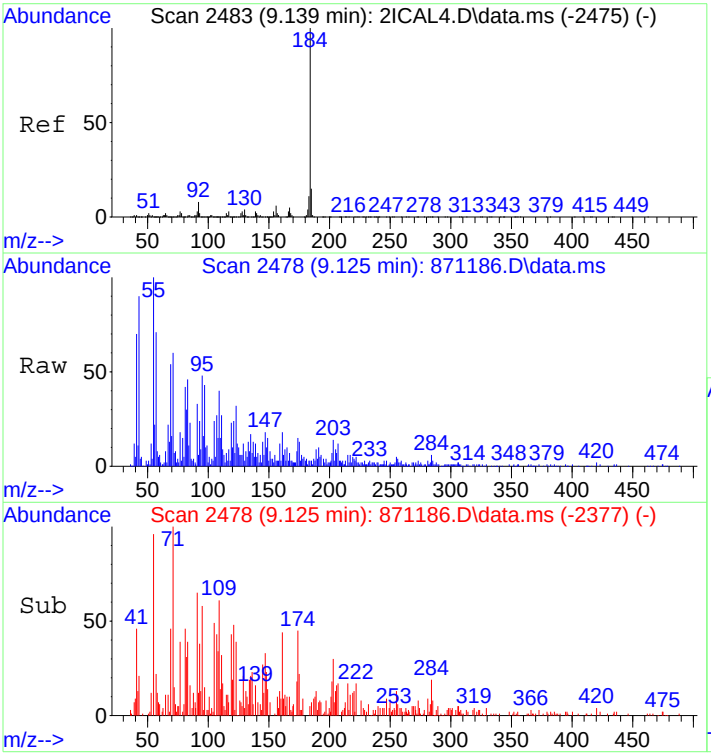


#74
Fluoranthene
Concen: 0.60 ug/mL
RT: 9.077 min Scan# 2461
Delta R.T. -0.000 min
Lab File: 871186.D
Acq: 2 Dec 10 9:26 pm

Tgt Ion:202 Resp: 64824

Ion	Ratio	Lower	Upper
202	100		
101	10.7	0.0	41.2

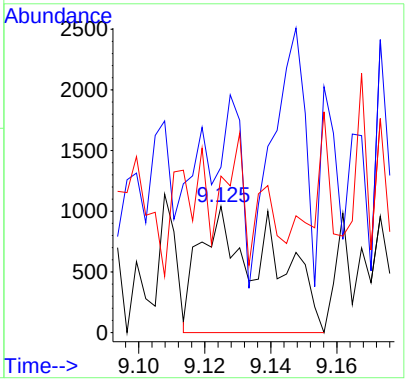


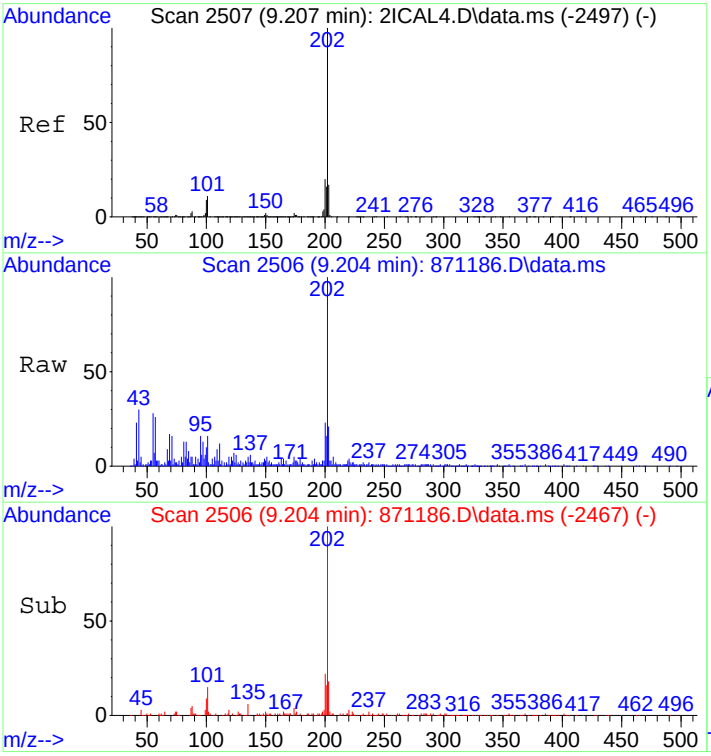


#76
Benzidine
Concen: Below ug/mL
RT: 9.125 min Scan# 2478
Delta R.T. -0.014 min
Lab File: 871186.D
Acq: 2 Dec 10 9:26 pm

Tgt Ion:184 Resp: 1489

Ion	Ratio	Lower	Upper
184	100		
185	13.3	0.0	43.8
183	0.0	0.0	41.8

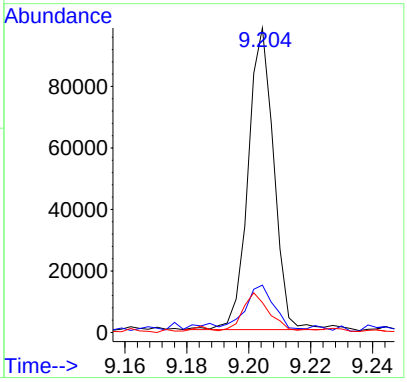


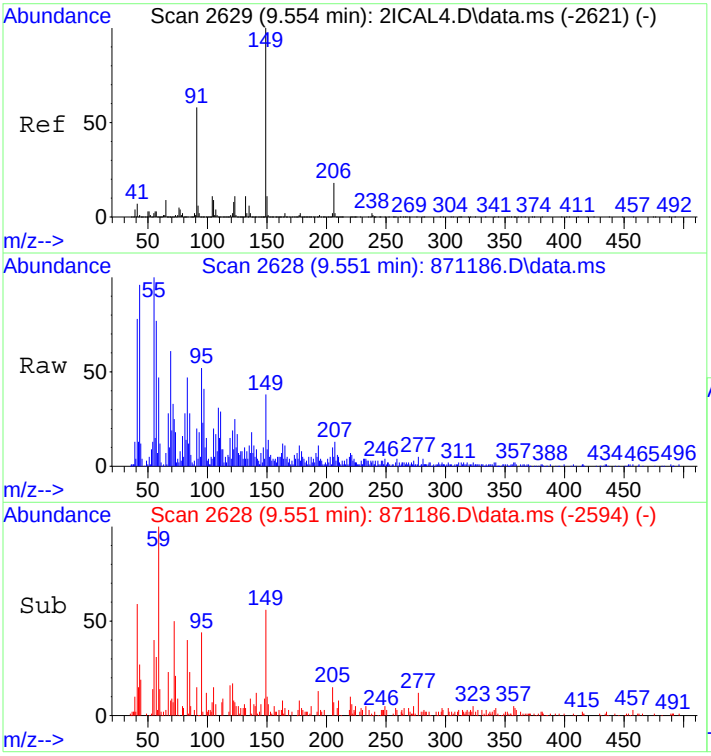


#77
Pyrene
Concen: 0.51 ug/mL
RT: 9.204 min Scan# 2506
Delta R.T. -0.003 min
Lab File: 871186.D
Acq: 2 Dec 10 9:26 pm

Tgt Ion:202 Resp: 56592

Ion	Ratio	Lower	Upper
202	100		
101	14.7	0.0	44.0
100	9.4	0.0	42.2

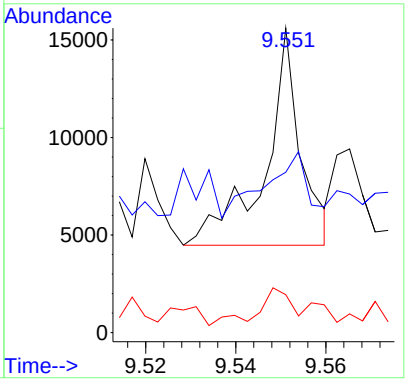


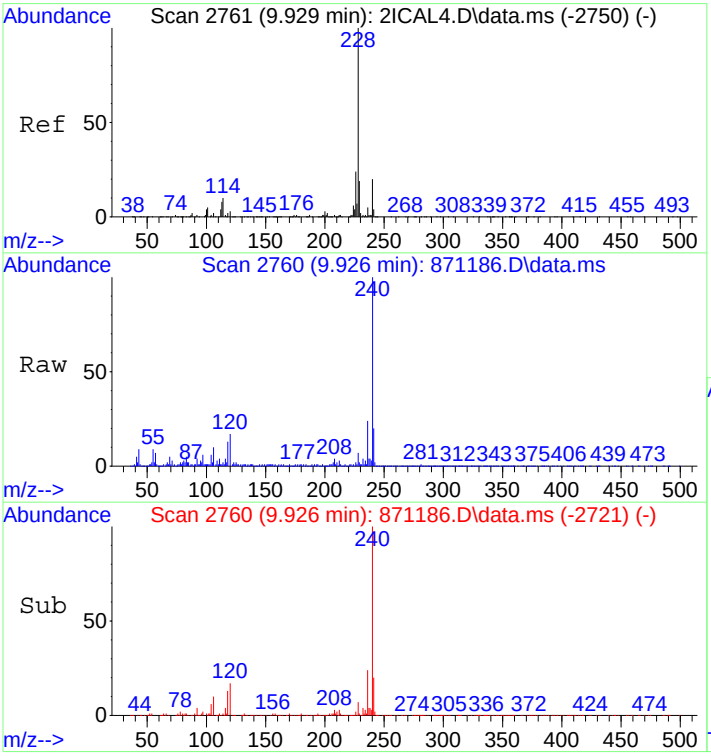


#79
Btylbzylphth
Concen: 0.11 ug/mL
RT: 9.551 min Scan# 2628
Delta R.T. -0.003 min
Lab File: 871186.D
Acq: 2 Dec 10 9:26 pm

Tgt Ion:149 Resp: 6119

Ion	Ratio	Lower	Upper
149	100		
91	15.8	40.5	100.5#
206	7.1	0.0	48.9

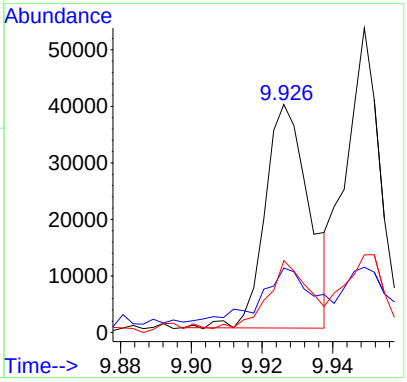


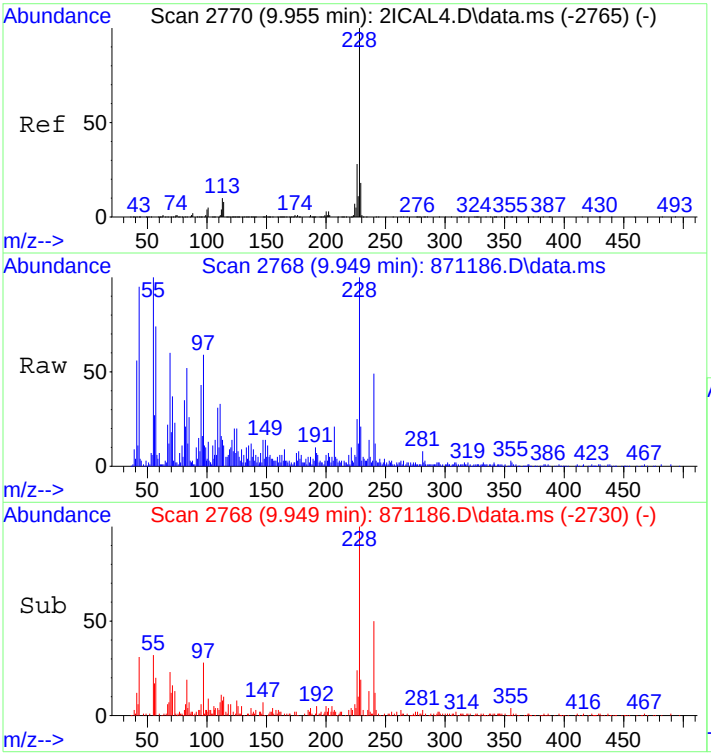


#81
B[a]anthracen
Concen: 0.33 ug/mL
RT: 9.926 min Scan# 2760
Delta R.T. -0.003 min
Lab File: 871186.D
Acq: 2 Dec 10 9:26 pm

Tgt Ion:228 Resp: 34364

Ion	Ratio	Lower	Upper
228	100		
229	24.2	0.0	48.8
226	30.5	0.0	56.6

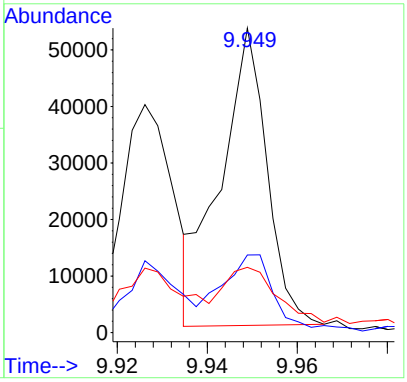


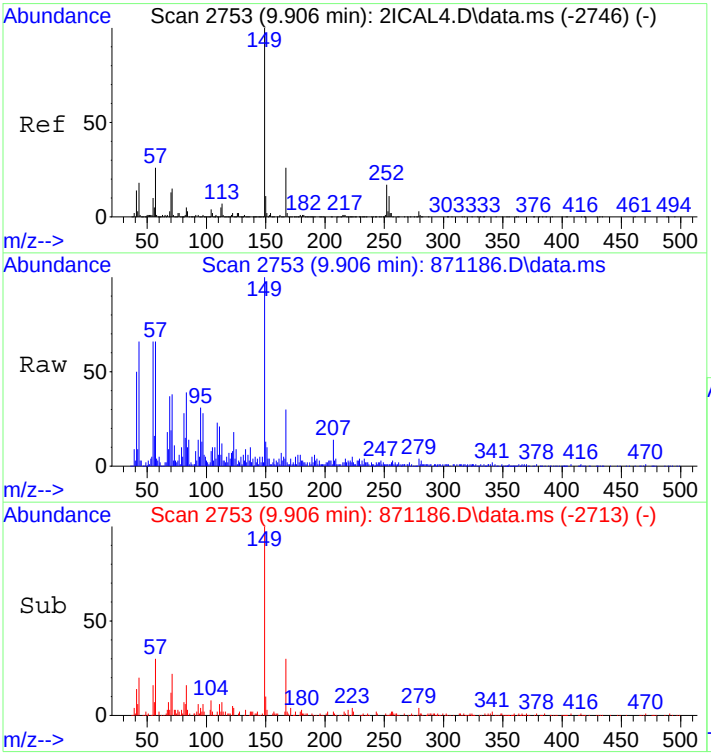


#82
Chrysene
Concen: 0.38 ug/mL
RT: 9.949 min Scan# 2768
Delta R.T. -0.006 min
Lab File: 871186.D
Acq: 2 Dec 10 9:26 pm

Tgt Ion:228 Resp: 37870

Ion	Ratio	Lower	Upper
228	100		
226	23.8	0.0	58.6
229	17.0	0.0	49.6

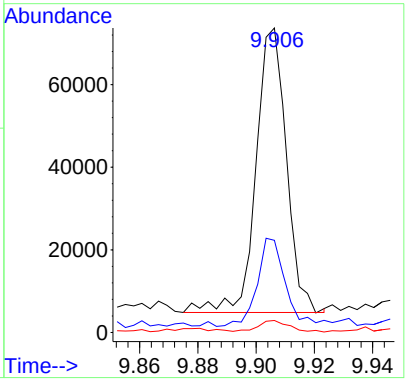


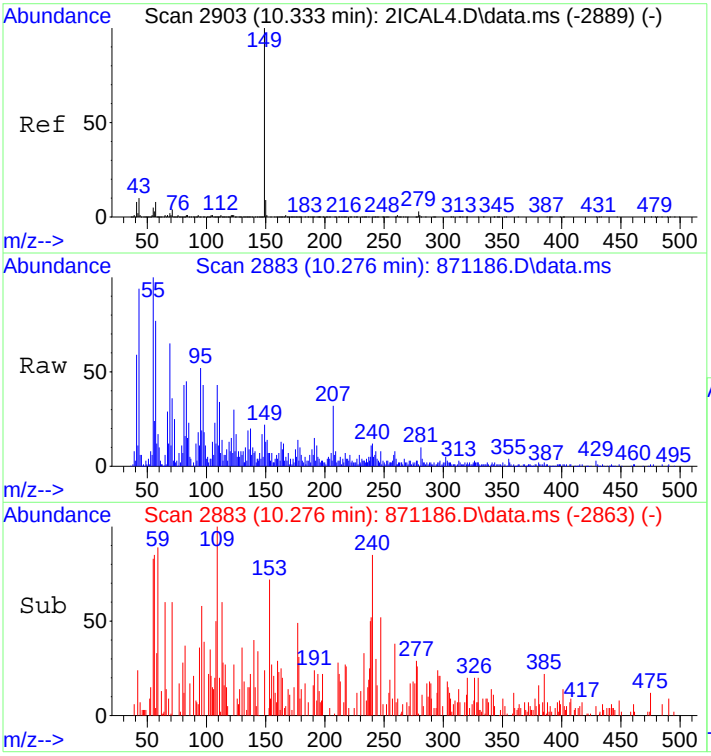


#83
bis2Ethlhxlph
Concen: 0.64 ug/mL
RT: 9.906 min Scan# 2753
Delta R.T. -0.000 min
Lab File: 871186.D
Acq: 2 Dec 10 9:26 pm

Tgt Ion:149 Resp: 50071

Ion	Ratio	Lower	Upper
149	100		
167	29.1	0.0	56.9
279	4.1	0.0	33.6

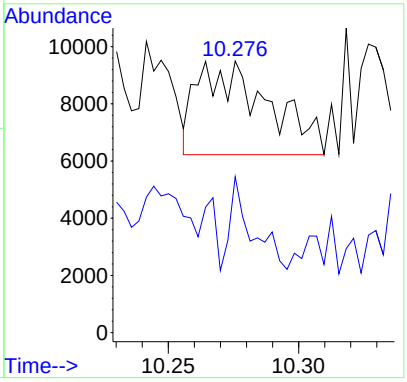


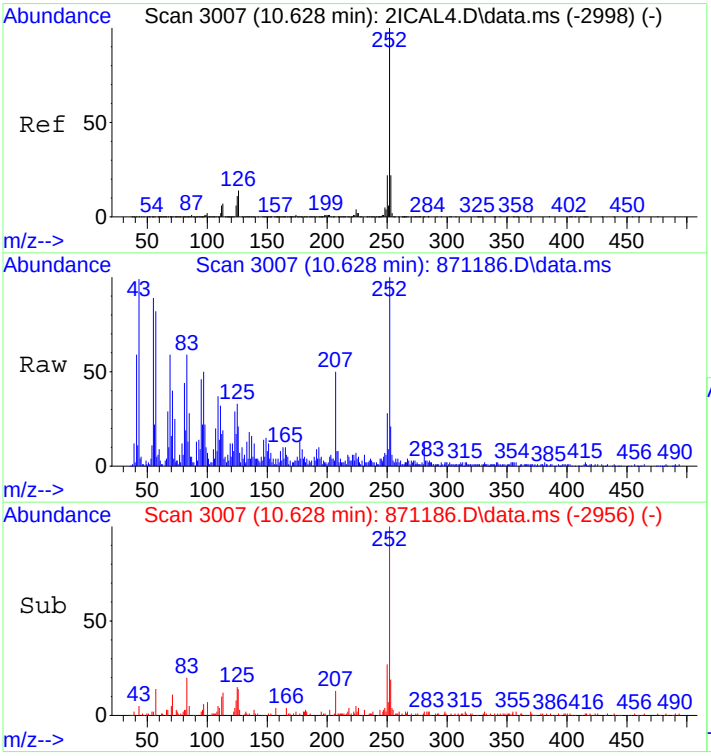


#84
Dinoctylphthl
Concen: 0.04 ug/mL
RT: 10.276 min Scan# 2883
Delta R.T. -0.057 min
Lab File: 871186.D
Acq: 2 Dec 10 9:26 pm

Tgt Ion:149 Resp: 6089

Ion	Ratio	Lower	Upper
149	100		
150	93.7	0.0	39.0#

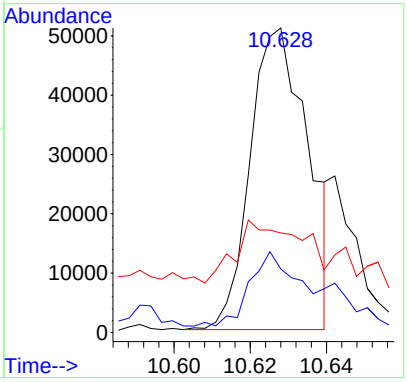


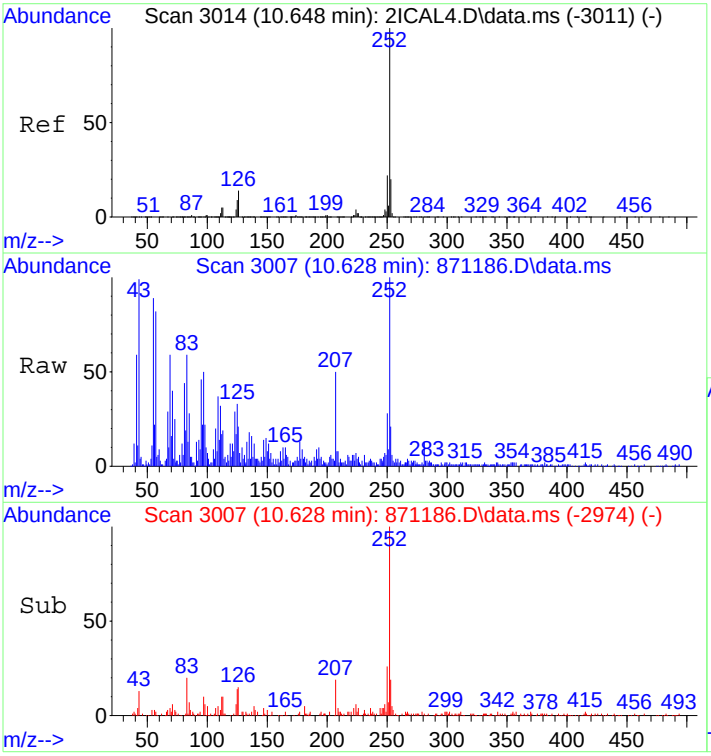


#86
B[b]fluoranth
Concen: 0.55 ug/mL
RT: 10.628 min Scan# 3007
Delta R.T. -0.000 min
Lab File: 871186.D
Acq: 2 Dec 10 9:26 pm

Tgt Ion:252 Resp: 53761

Ion	Ratio	Lower	Upper
252	100		
253	18.8	0.0	50.8
125	15.2	0.0	41.9

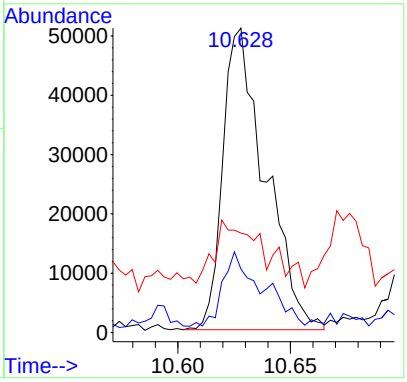


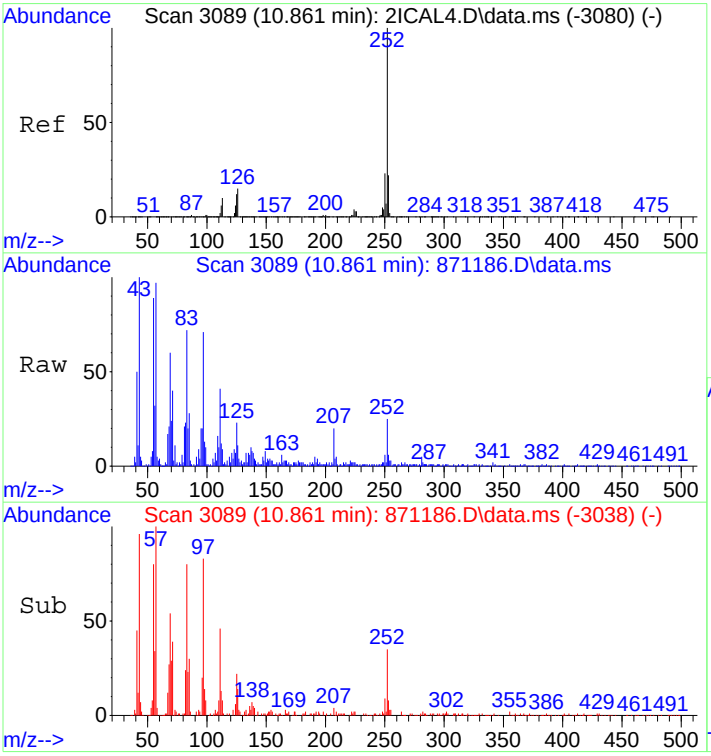


#87
B[k]fluoranth
Concen: 0.73 ug/mL
RT: 10.628 min Scan# 3007
Delta R.T. -0.020 min
Lab File: 871186.D
Acq: 2 Dec 10 9:26 pm

Tgt Ion:252 Resp: 66999

Ion	Ratio	Lower	Upper
252	100		
253	18.8	0.0	50.8
125	15.2	0.0	41.3

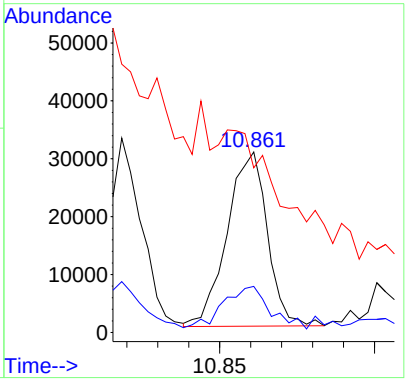


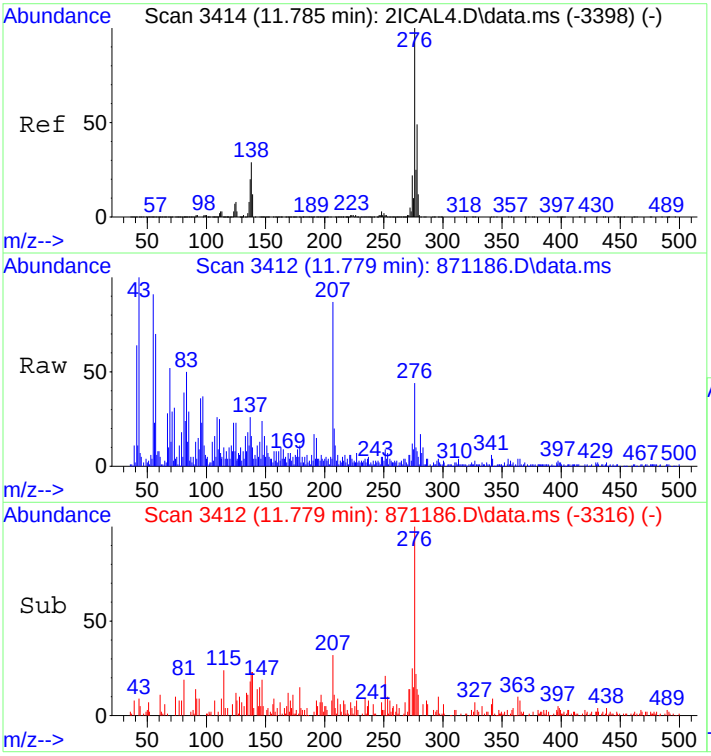


#88
Benz[a]pyrene
Concen: 0.31 ug/mL
RT: 10.861 min Scan# 3089
Delta R.T. -0.000 min
Lab File: 871186.D
Acq: 2 Dec 10 9:26 pm

Tgt Ion:252 Resp: 27259

Ion	Ratio	Lower	Upper
252	100		
253	23.8	0.0	50.4
125	32.8	0.0	43.2

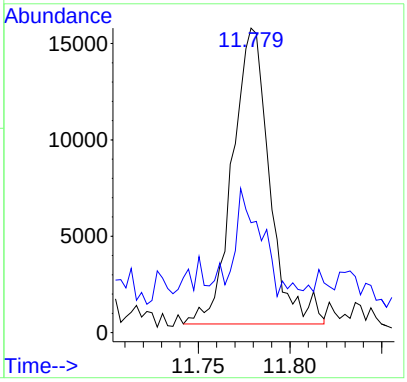


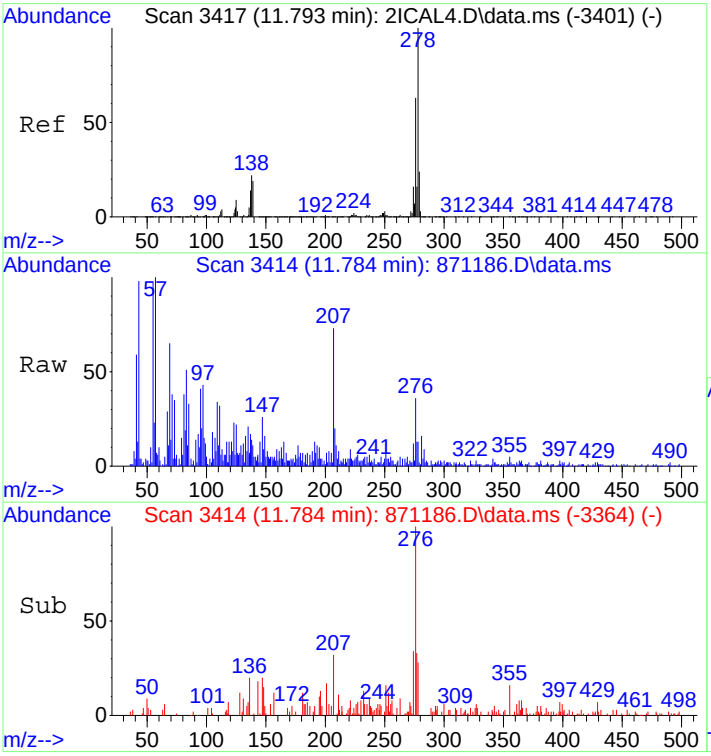


#89
Indeno-pyrene
Concen: 0.24 ug/mL
RT: 11.779 min Scan# 3412
Delta R.T. -0.006 min
Lab File: 871186.D
Acq: 2 Dec 10 9:26 pm

Tgt Ion:276 Resp: 21554

Ion	Ratio	Lower	Upper
276	100		
138	20.3	2.2	62.2

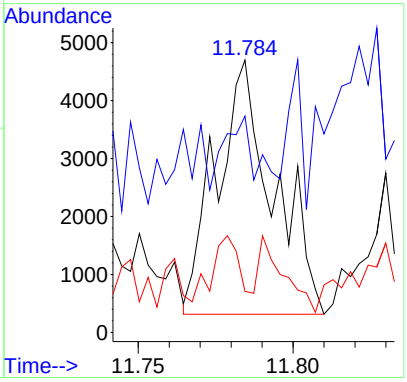


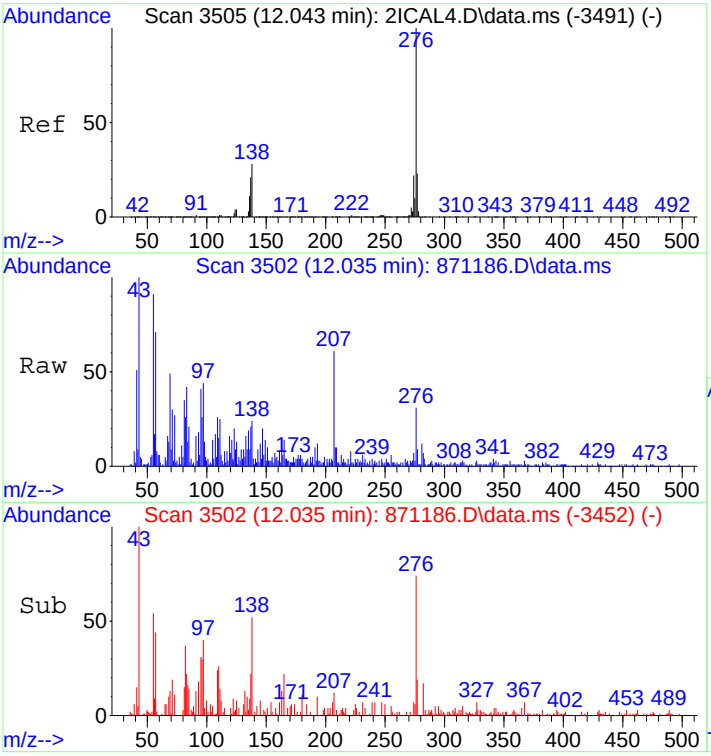


#90
Dib[ah]anthr
Concen: 0.08 ug/mL
RT: 11.784 min Scan# 3414
Delta R.T. -0.009 min
Lab File: 871186.D
Acq: 2 Dec 10 9:26 pm

Tgt Ion:278 Resp: 5643

Ion	Ratio	Lower	Upper
278	100		
139	7.0	0.0	50.7
279	1.6	0.0	54.3

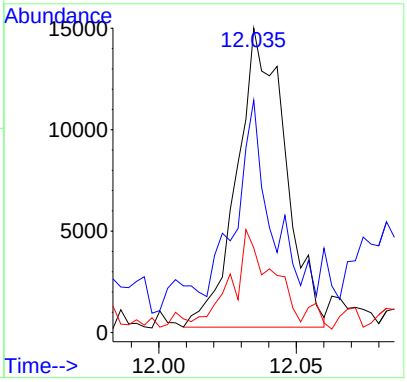




#91
B[ghi]perylen
Concen: 0.24 ug/mL
RT: 12.035 min Scan# 3502
Delta R.T. -0.009 min
Lab File: 871186.D
Acq: 2 Dec 10 9:26 pm

Tgt Ion:276 Resp: 17972

Ion	Ratio	Lower	Upper
276	100		
138	62.1	0.0	57.5#
277	25.0	0.0	53.1



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\871197.D Vial: 10
Acq On : 2 Dec 2010 21:46 Operator: RPN
Sample : 72180,871197,1 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 14 08:52:33 2010

RPN 12/13/10

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Tue Dec 14 08:47:34 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.428	152	529704	20.00	ug/mL	0.00
21) Naphthalened8	6.070	136	2372904	20.00	ug/mL	0.00
39) Acenaphthened10	7.579	164	1275455	20.00	ug/mL	0.00
63) Phenanthrd10	8.469	188	1913816	20.00	ug/mL	0.00
75) Chrysene-d12	9.932	240	1754088	20.00	ug/mL	0.00
85) Perylene-d12	10.901	264	1519621	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	3.184	112	1005181	76.23	%REC	0.02
Spiked Amount 100.000	Range 20 - 110		Recovery = 76.23%			
7) SURRPhenol-d5	3.999	99	1285427	81.15	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 81.15%			
22) SURRNitrbenzened5	5.121	82	442537	77.28	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 77.28%			
44) SURR2Flbiphenyl	7.093	172	1317362	78.94	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 78.94%			
62) SURR246Tribrphenl	8.096	330	304572	78.98	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 78.98%			
78) SURRTerphenyl-d14	9.276	244	1105149	86.74	ug/mL	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 86.74%			
Target Compounds						Qvalue
2) Ntrsdimeth	2.286	74	1313	0.0698	ug/mL#	1
5) Aniline	4.104	93	31562	0.6181	ug/mL#	42
6) bis2Clethletr	4.104	93	31562	0.9958	ug/mL	48
8) Phenol	4.010	94	11500	0.2945	ug/mL	86
12) 12Diclbenz	4.621	146	5273	0.1332	ug/mL	86
13) Benzyl alcoho	4.610	108	566	0.9305	ug/mL#	1
15) 2Methylphenol	4.712	108	3177	0.1064	ug/mL#	31
17) Acetophenone	4.922	105	7692	0.1727	ug/mL#	73
18) Hexaclethane	5.030	117	416	0.0299	ug/mL#	14
19) N-Ntrsdinprop	4.922	70	912	0.0457	ug/mL#	16
24) Isophorone	5.502	82	3823	0.0592	ug/mL	99
30) Benzoic acid	5.746	105	5868	3.1492	ug/mL	75
31) Naphthalene	6.093	128	48311	0.3989	ug/mL	98
32) 4-Cl-aniline	6.093	127	6831	0.1504	ug/mL#	41
36) 4Cl3methylphe	6.681	107	1491	0.0504	ug/mL#	34
37) 2Methylnaphth	6.781	141	37120	0.5491	ug/mL	97
38) 1Methylnaphth	6.866	141	28056	0.3999	ug/mL	91
46) 2Nitroaniline	7.235	65	2018	0.1173	ug/mL#	24
47) Acnaphthylene	7.480	152	4542	0.0360	ug/mL	62
48) Dimethylphtha	7.395	163	1816	0.0210	ug/mL	77
49) 26Dinitrotolu	7.426	165	5458	0.2914	ug/mL#	49
50) Acenaphthene	7.602	153	2316	0.0292	ug/mL	77
51) 3Nitroaniline	7.582	138	1027	0.0512	ug/mL#	1
52) 24Dinitphenol	7.770	184	978	2.4538	ug/mL#	36
53) Dibenzofuran	7.716	168	15051	0.1458	ug/mL	97
55) 4-Nitrophenol	7.664	109	1740	0.2709	ug/mL#	21
58) Fluorene	7.943	166	3212	0.0386	ug/mL	97
60) Diethylphthal	7.863	149	28633	0.3276	ug/mL	98
61) 4Nitroaniline	7.960	138	808	0.0411	ug/mL#	34
65) Ntrsdiphlam&Diphlam	8.094	169	12529	0.2204	ug/mL#	39
66) Azobenz&12Diphlhyd	8.040	182	10770	0.5015	ug/mL#	1
70) Phenanthrene	8.480	178	58802	0.5795	ug/mL	95
71) Anthracene	8.506	178	8731	0.0849	ug/mL	93
72) Carbazole	8.579	167	7735	0.0887	ug/mL	88

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\871197.D Vial: 10
Acq On : 2 Dec 2010 21:46 Operator: RPN
Sample : 72180,871197,1 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 14 08:52:33 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Tue Dec 14 08:47:34 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

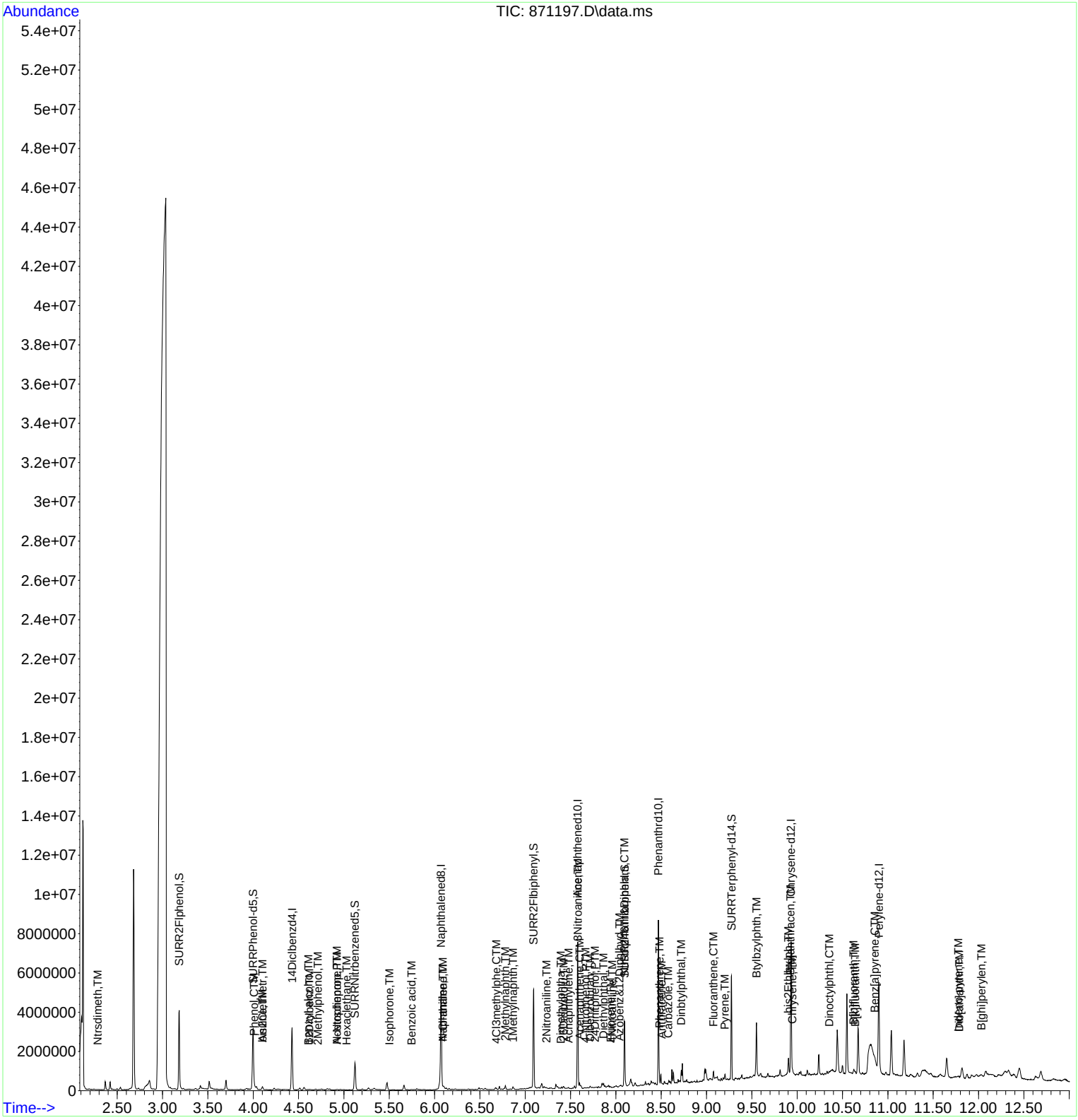
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
73) Dinbtylphthal	8.721	149	161807	1.3750 ug/mL	98
74) Fluoranthene	9.077	202	100536	0.9818 ug/mL	96
76) Benzidine	9.031	184	2454	Below Cal #	34
77) Pyrene	9.202	202	83775	0.8009 ug/mL	97
79) Btylbzylphth	9.551	149	5564	0.1094 ug/mL	91
81) B[a]anthracen	9.926	228	47231	0.4842 ug/mL	97
82) Chrysene	9.946	228	51701	0.5531 ug/mL	96
83) bis2Ethlhxlph	9.903	149	184234	2.4923 ug/mL	100
84) Dinoctylphthl	10.352	149	7510	0.0572 ug/mL	83
86) B[b]fluoranth	10.622	252	67709	0.7564 ug/mL	91
87) B[k]fluoranth	10.639	252	20131	0.2381 ug/mL	83
88) Benz[a]pyrene	10.855	252	34267	0.4194 ug/mL	82
89) Indeno-pyrene	11.776	276	24918	0.3004 ug/mL	94
90) Dib[ah]anthr	11.787	278	6142	0.0913 ug/mL	67
91) B[ghi]perylen	12.032	276	22625	0.3283 ug/mL	73

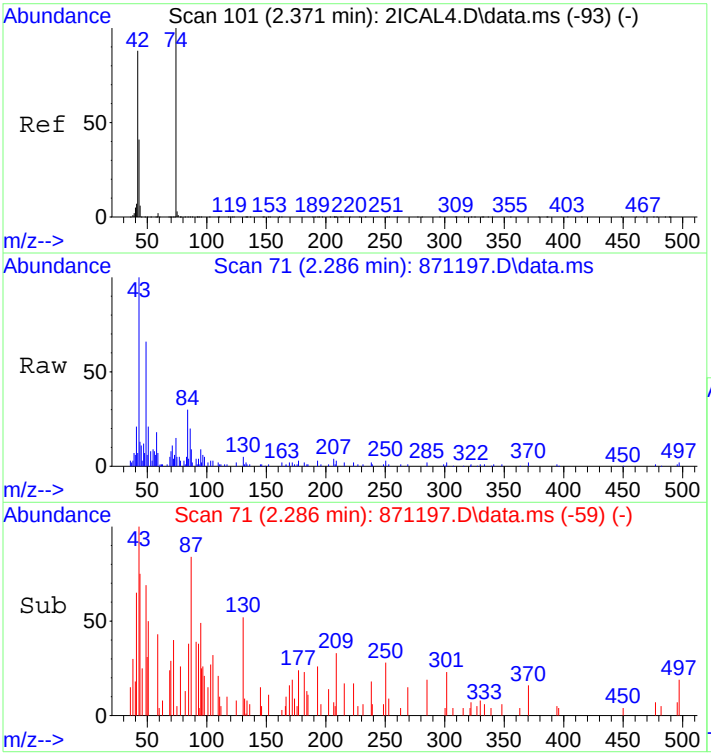
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\871197.D Vial: 10
Acq On : 2 Dec 2010 21:46 Operator: RPN
Sample : 72180,871197,1 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 14 08:52:33 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Tue Dec 14 08:47:34 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

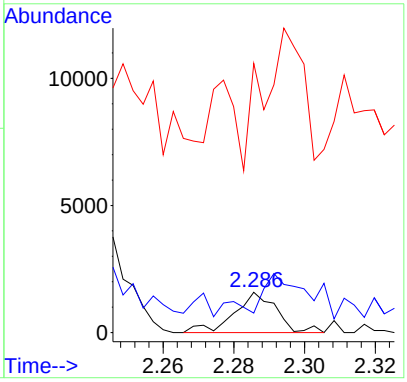


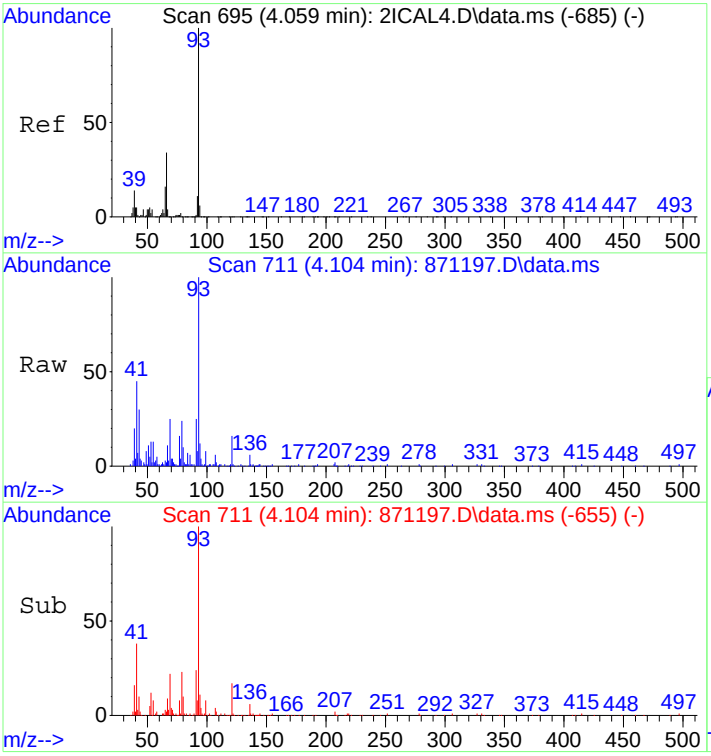


#2
Ntrsdimeth
Concen: 0.07 ug/mL
RT: 2.286 min Scan# 71
Delta R.T. -0.085 min
Lab File: 871197.D
Acq: 2 Dec 10 9:46 pm

Tgt Ion: 74 Resp: 1313

Ion	Ratio	Lower	Upper
74	100		
42	0.3	82.4	142.4#
43	212.8	17.7	77.7#

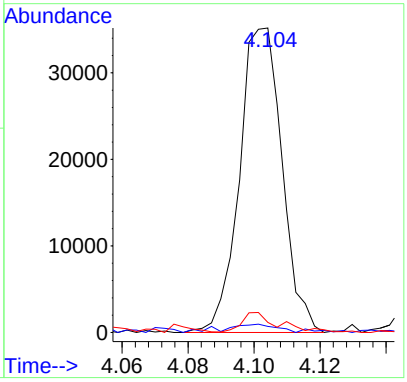


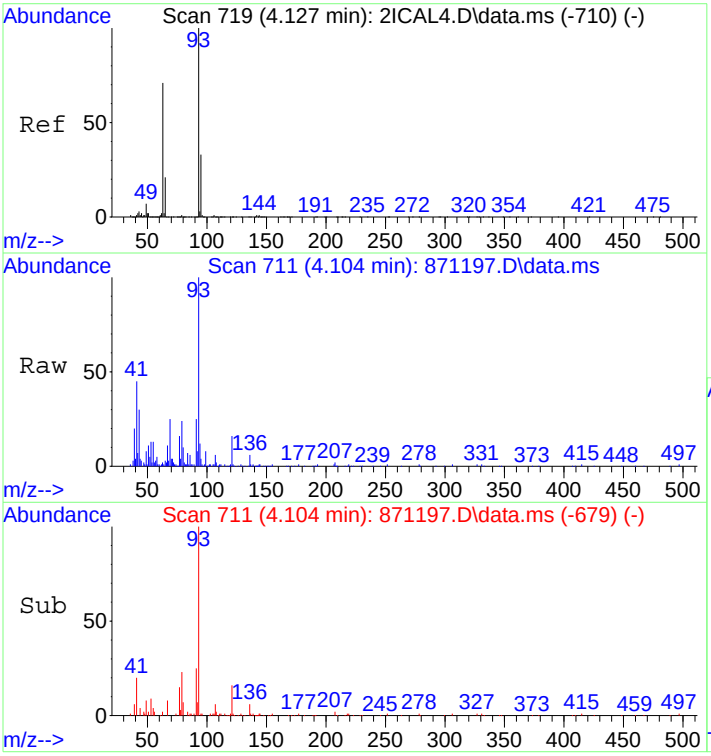


#5
Aniline
Concen: 0.62 ug/mL
RT: 4.104 min Scan# 711
Delta R.T. 0.045 min
Lab File: 871197.D
Acq: 2 Dec 10 9:46 pm

Tgt Ion: 93 Resp: 31562

Ion	Ratio	Lower	Upper
93	100		
66	0.0	10.4	70.4#
65	0.0	0.0	51.6

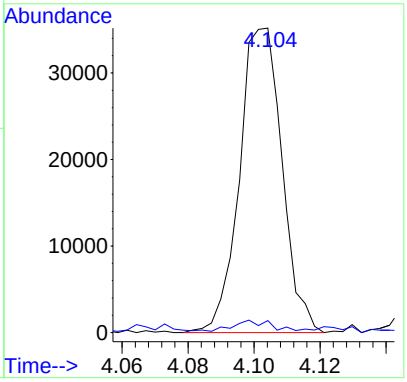


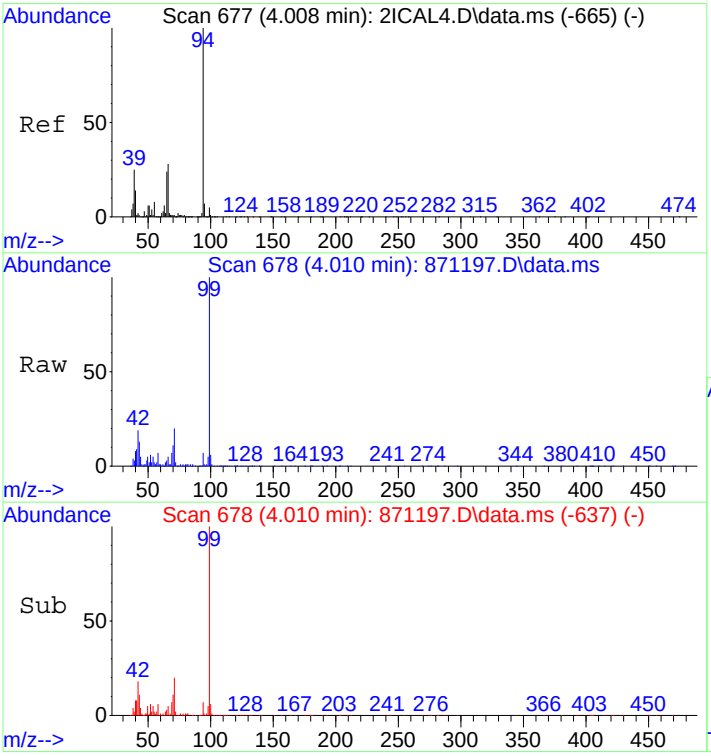


#6
bis2Clethletr
Concen: 1.00 ug/mL
RT: 4.104 min Scan# 711
Delta R.T. -0.023 min
Lab File: 871197.D
Acq: 2 Dec 10 9:46 pm

Tgt Ion: 93 Resp: 31562

Ion	Ratio	Lower	Upper
93	100		
95	3.1	2.4	62.4

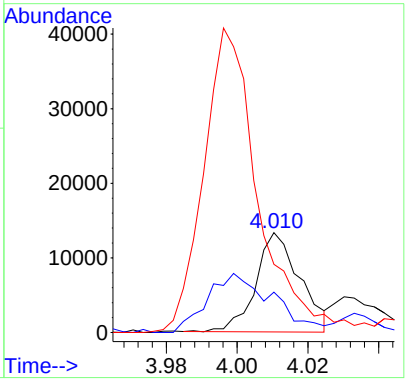


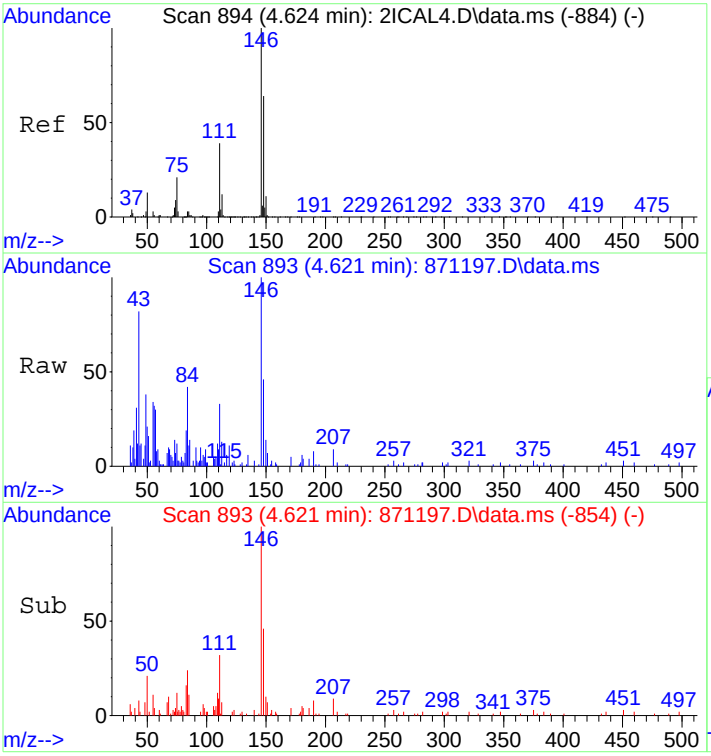


#8
Phenol
Concen: 0.29 ug/mL
RT: 4.010 min Scan# 678
Delta R.T. 0.003 min
Lab File: 871197.D
Acq: 2 Dec 10 9:46 pm

Tgt Ion: 94 Resp: 11500

Ion	Ratio	Lower	Upper
94	100		
65	33.9	1.0	61.0
66	50.4	8.1	68.1

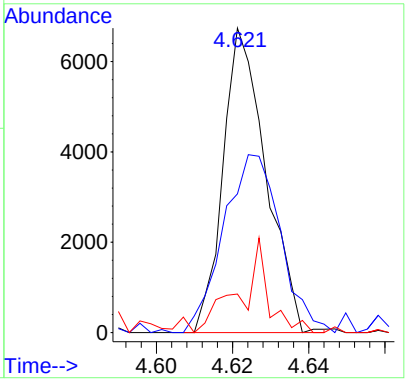


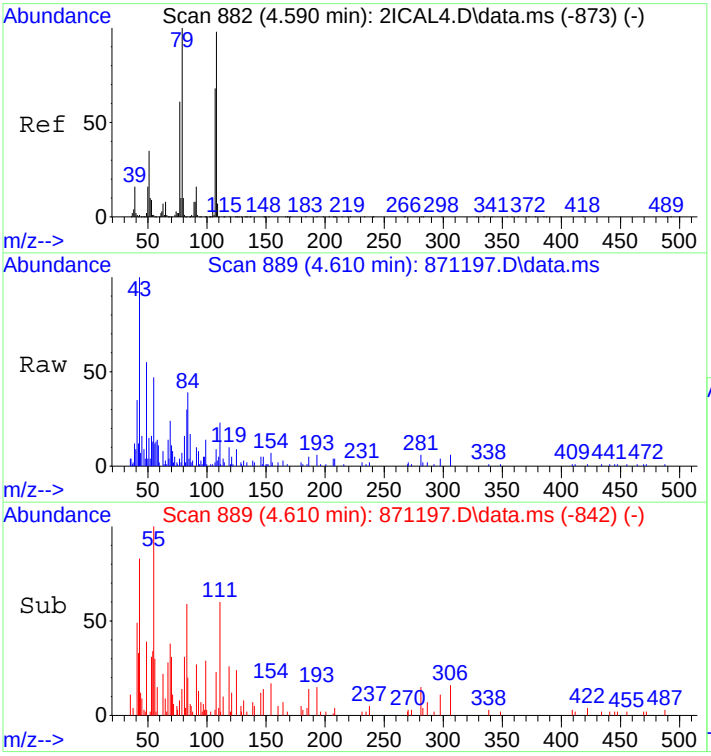


#12
12Diclbenz
Concen: 0.13 ug/mL
RT: 4.621 min Scan# 893
Delta R.T. -0.003 min
Lab File: 871197.D
Acq: 2 Dec 10 9:46 pm

Tgt Ion:146 Resp: 5273

Ion	Ratio	Lower	Upper
146	100		
148	46.1	29.2	89.2
113	12.8	0.0	42.9

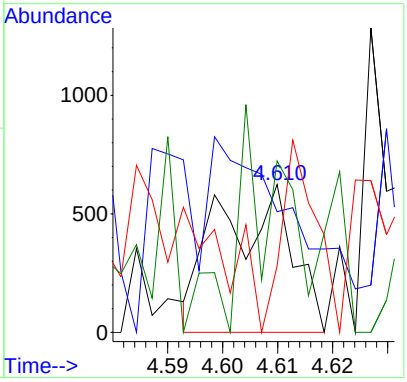


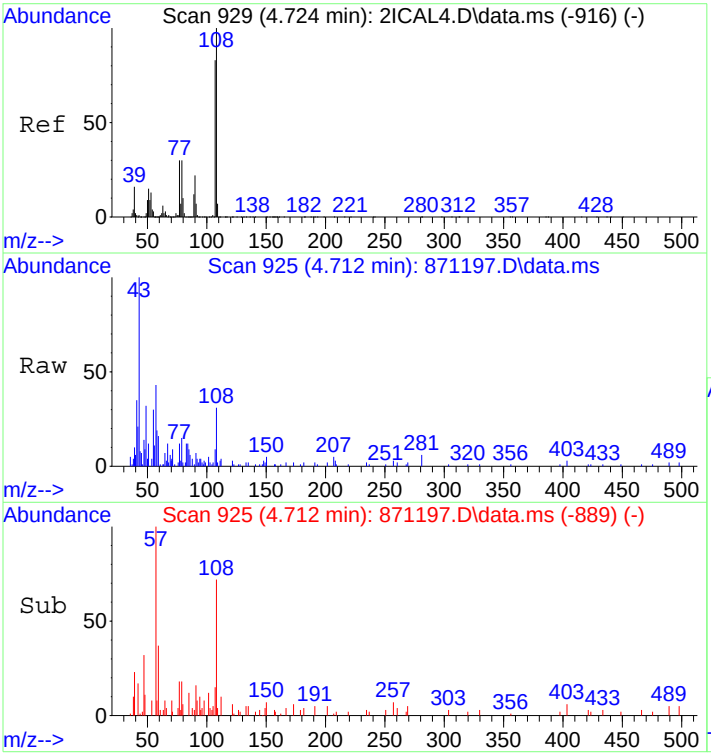


#13
Benzyl alcoho
Concen: 0.93 ug/mL
RT: 4.610 min Scan# 889
Delta R.T. 0.020 min
Lab File: 871197.D
Acq: 2 Dec 10 9:46 pm

Tgt Ion:108 Resp: 566

Ion	Ratio	Lower	Upper
108	100		
79	22.1	104.2	164.2#
77	0.0	55.1	115.1#
91	101.7	0.0	50.3#

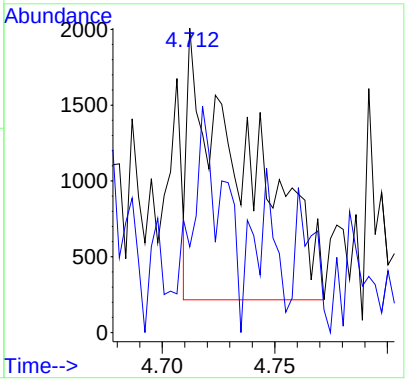


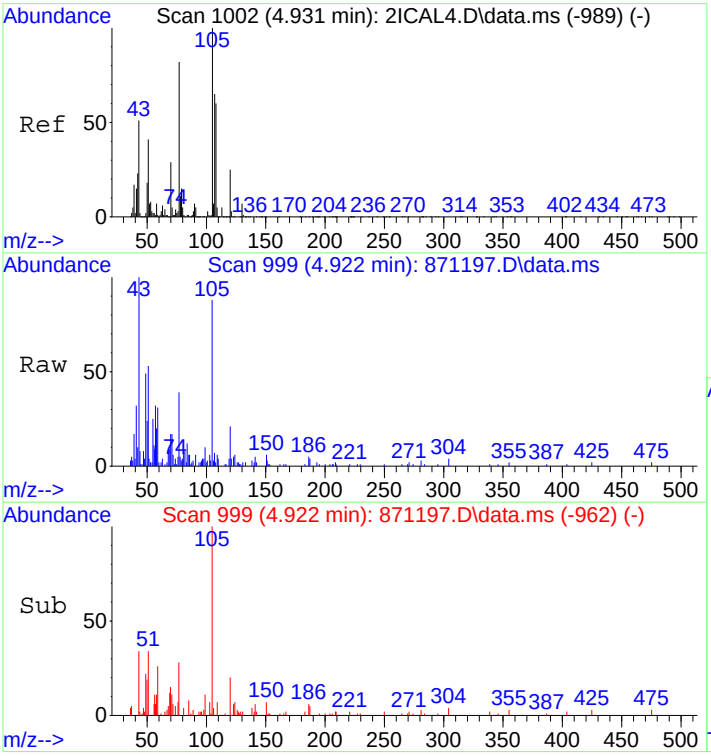


#15
2Methylphenol
Concen: 0.11 ug/mL
RT: 4.712 min Scan# 925
Delta R.T. -0.011 min
Lab File: 871197.D
Acq: 2 Dec 10 9:46 pm

Tgt Ion:108 Resp: 3177

Ion	Ratio	Lower	Upper
108	100		
107	23.2	57.3	117.3#

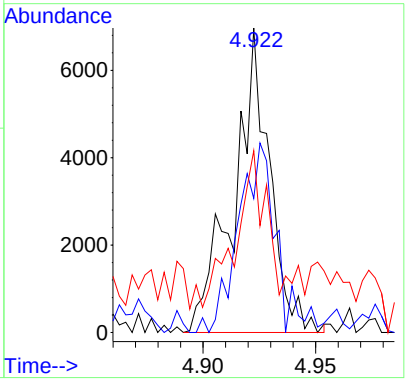


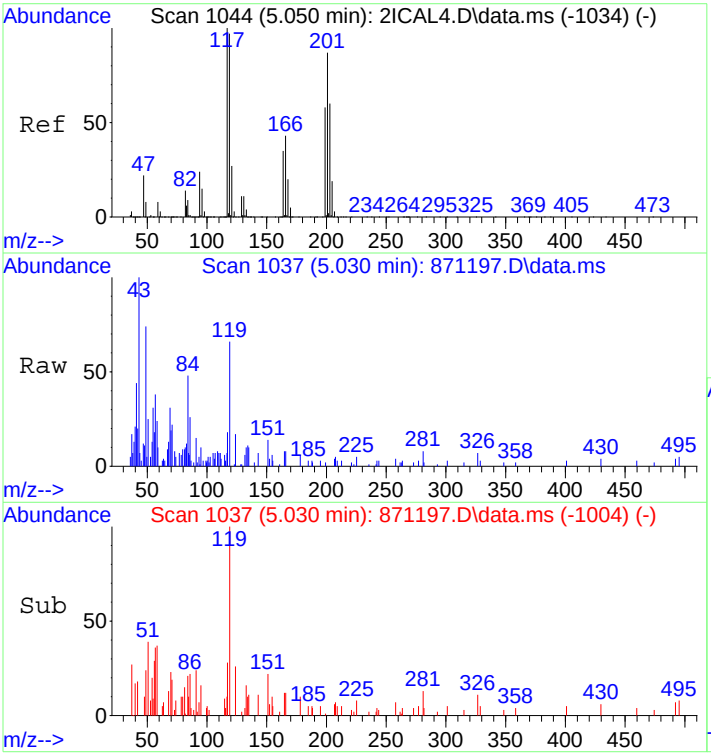


#17
Acetophenone
Concen: 0.17 ug/mL
RT: 4.922 min Scan# 999
Delta R.T. -0.009 min
Lab File: 871197.D
Acq: 2 Dec 10 9:46 pm

Tgt Ion:105 Resp: 7692

Ion	Ratio	Lower	Upper
105	100		
77	63.9	72.2	132.2#
51	46.1	18.8	78.8

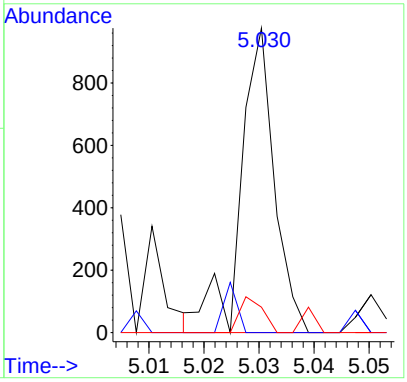


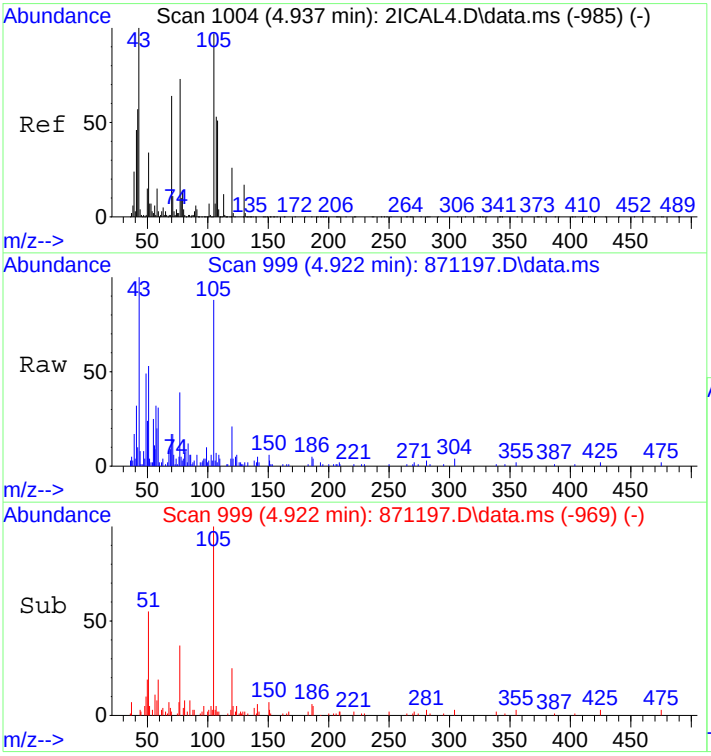


#18
Hexaclethane
Concen: 0.03 ug/mL
RT: 5.030 min Scan# 1037
Delta R.T. -0.020 min
Lab File: 871197.D
Acq: 2 Dec 10 9:46 pm

Tgt Ion:117 Resp: 416

Ion	Ratio	Lower	Upper
117	100		
201	0.0	64.1	124.1#
199	8.4	28.3	88.3#

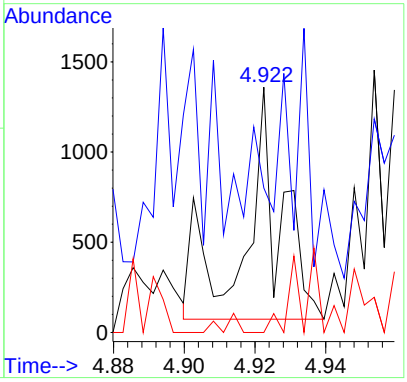


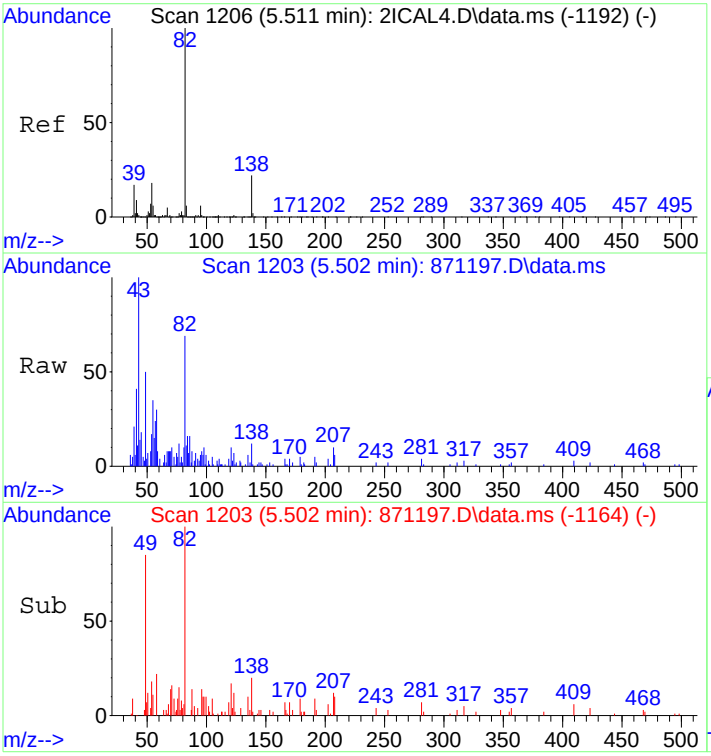


#19
N-Ntrsdinprop
Concen: 0.05 ug/mL
RT: 4.922 min Scan# 999
Delta R.T. -0.014 min
Lab File: 871197.D
Acq: 2 Dec 10 9:46 pm

Tgt Ion: 70 Resp: 912

Ion	Ratio	Lower	Upper
70	100		
42	0.8	54.3	114.3#
113	0.0	0.0	43.5

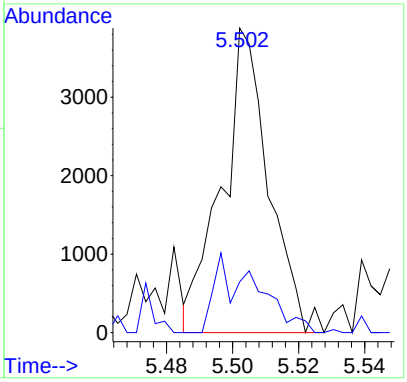


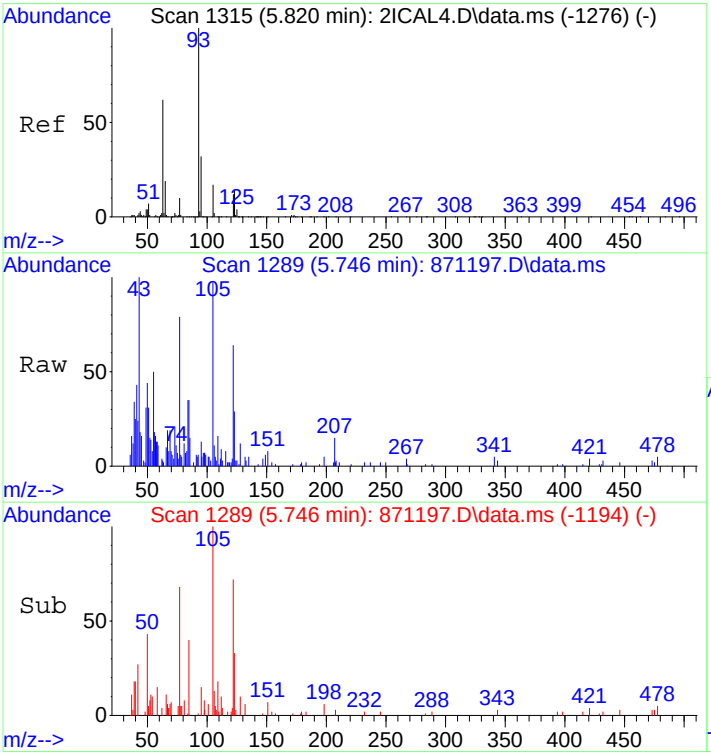


#24
Isophorone
Concen: 0.06 ug/mL
RT: 5.502 min Scan# 1203
Delta R.T. -0.009 min
Lab File: 871197.D
Acq: 2 Dec 10 9:46 pm

Tgt Ion: 82 Resp: 3823

Ion	Ratio	Lower	Upper
82	100		
138	18.3	0.0	48.8

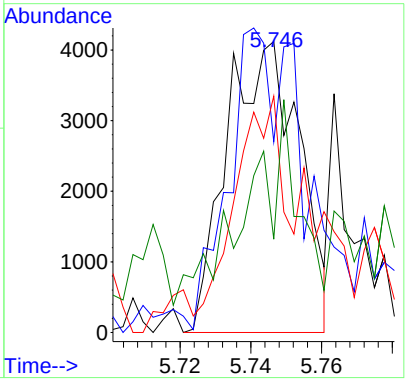


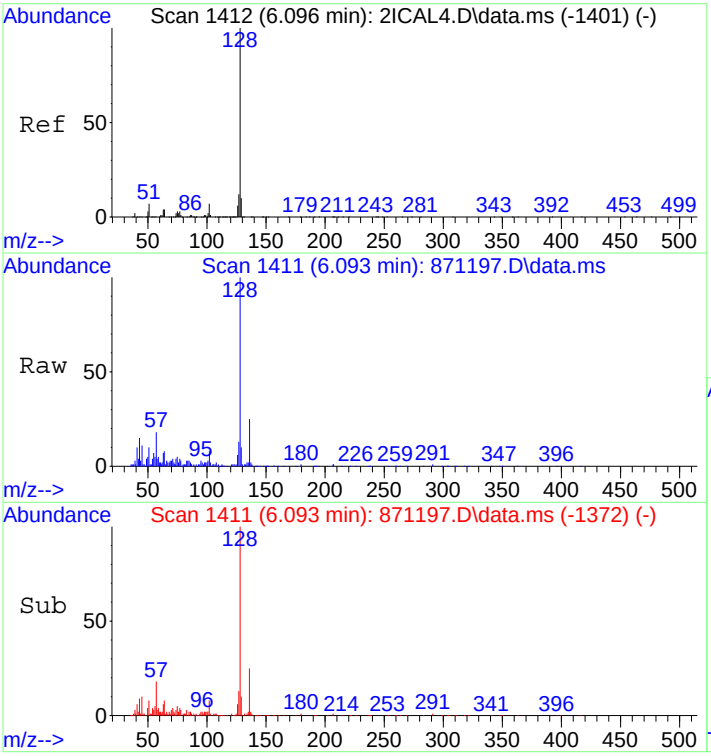


#30
Benzoic acid
Concen: 3.15 ug/mL
RT: 5.746 min Scan# 1289
Delta R.T. -0.004 min
Lab File: 871197.D
Acq: 2 Dec 10 9:46 pm

Tgt Ion:105 Resp: 5868

Ion	Ratio	Lower	Upper
105	100		
122	59.9	54.1	114.1
77	66.5	45.9	105.9
51	17.7	17.6	77.6

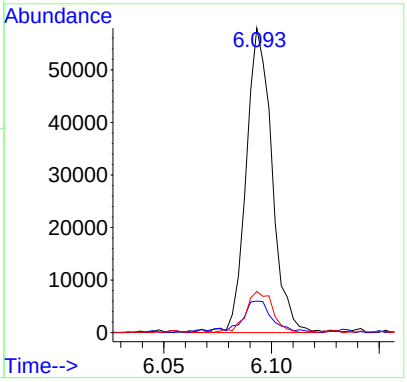


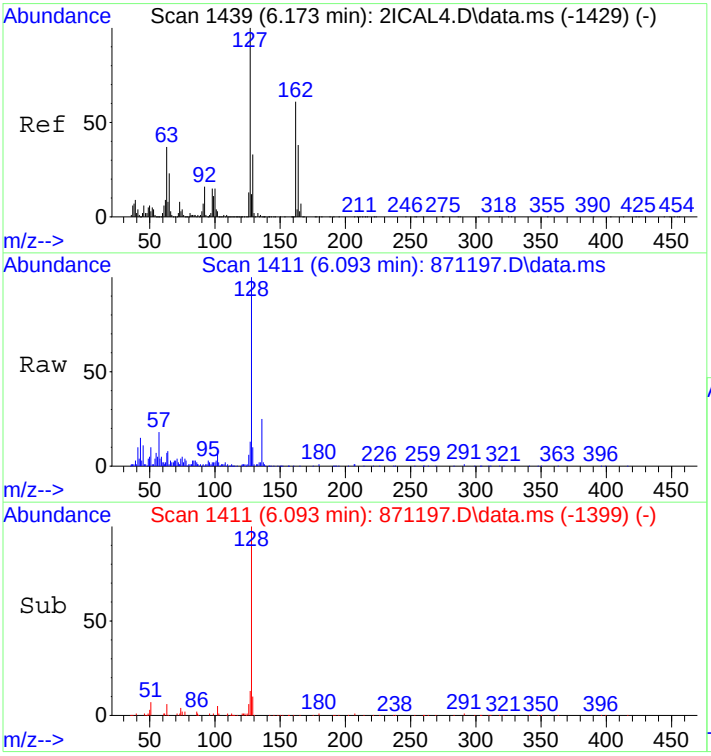


#31
Naphthalene
Concen: 0.40 ug/mL
RT: 6.093 min Scan# 1411
Delta R.T. -0.003 min
Lab File: 871197.D
Acq: 2 Dec 10 9:46 pm

Tgt Ion:128 Resp: 48311

Ion	Ratio	Lower	Upper
128	100		
129	10.2	0.0	40.3
127	13.4	0.0	41.9

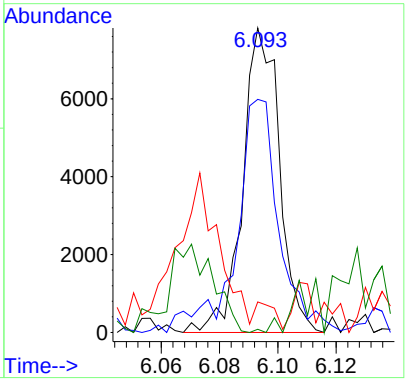


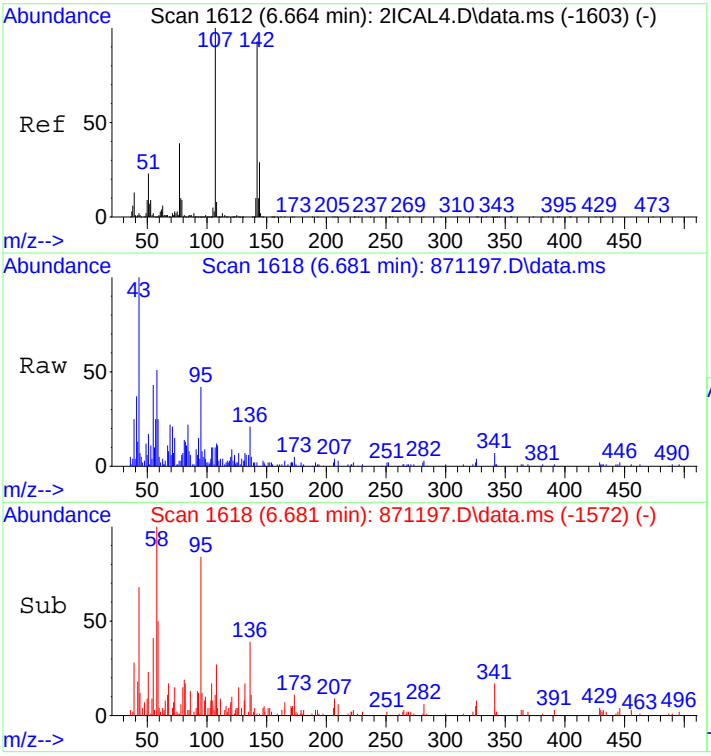


#32
4-Cl-aniline
Concen: 0.15 ug/mL
RT: 6.093 min Scan# 1411
Delta R.T. -0.080 min
Lab File: 871197.D
Acq: 2 Dec 10 9:46 pm

Tgt Ion:127 Resp: 6831

Ion	Ratio	Lower	Upper
127	100		
129	72.5	1.8	61.8#
65	0.1	1.6	61.6#
92	1.0	0.0	48.2

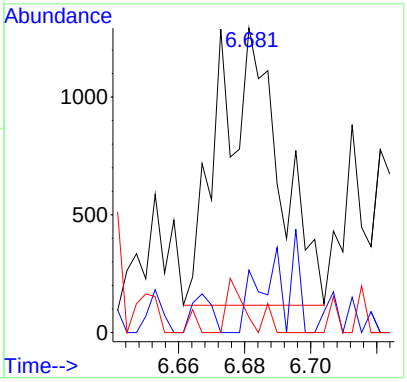


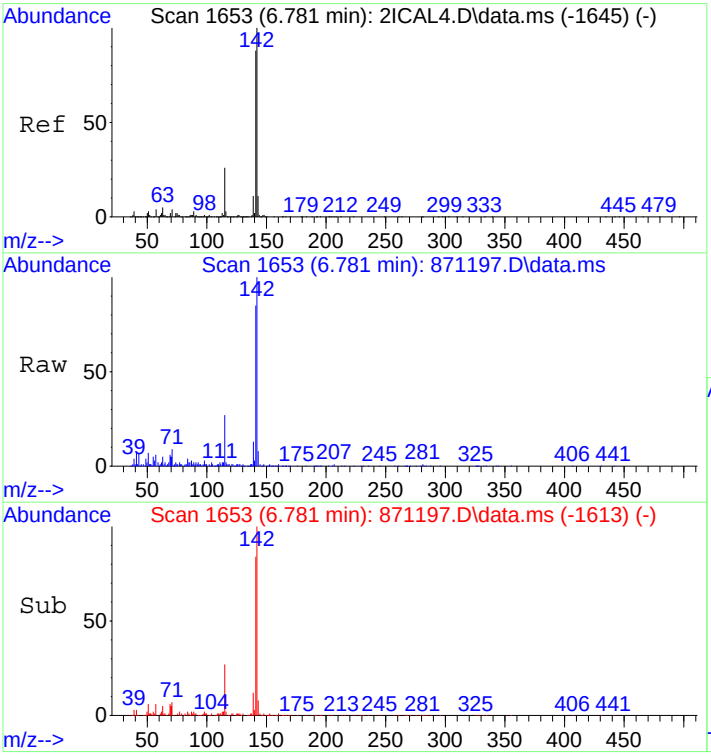


#36
4Cl3methylphe
Concen: 0.05 ug/mL
RT: 6.681 min Scan# 1618
Delta R.T. 0.017 min
Lab File: 871197.D
Acq: 2 Dec 10 9:46 pm

Tgt Ion:107 Resp: 1491

Ion	Ratio	Lower	Upper
107	100		
142	15.0	50.0	110.0#
144	5.4	0.0	56.8

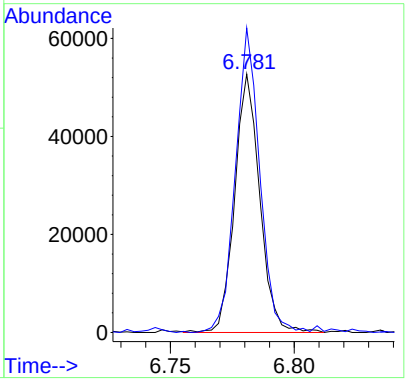


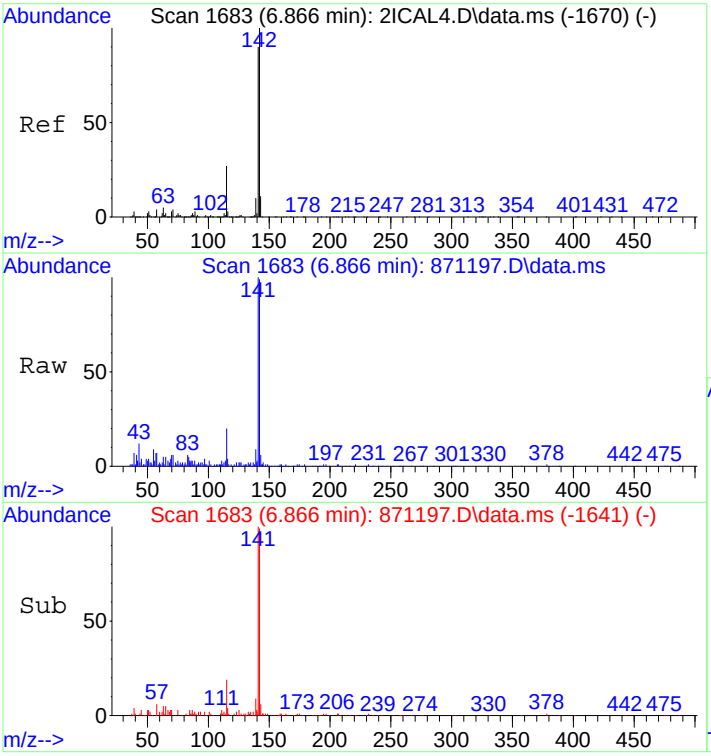


#37
2Methylnaphth
Concen: 0.55 ug/mL
RT: 6.781 min Scan# 1653
Delta R.T. -0.000 min
Lab File: 871197.D
Acq: 2 Dec 10 9:46 pm

Tgt Ion:141 Resp: 37120

Ion	Ratio	Lower	Upper
141	100		
142	117.4	83.7	143.7

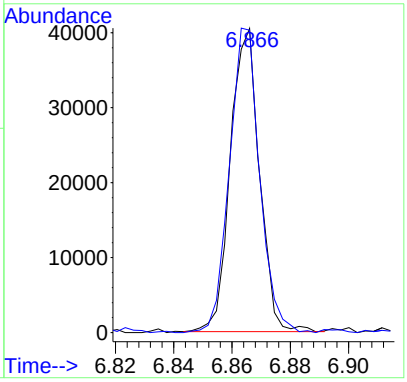


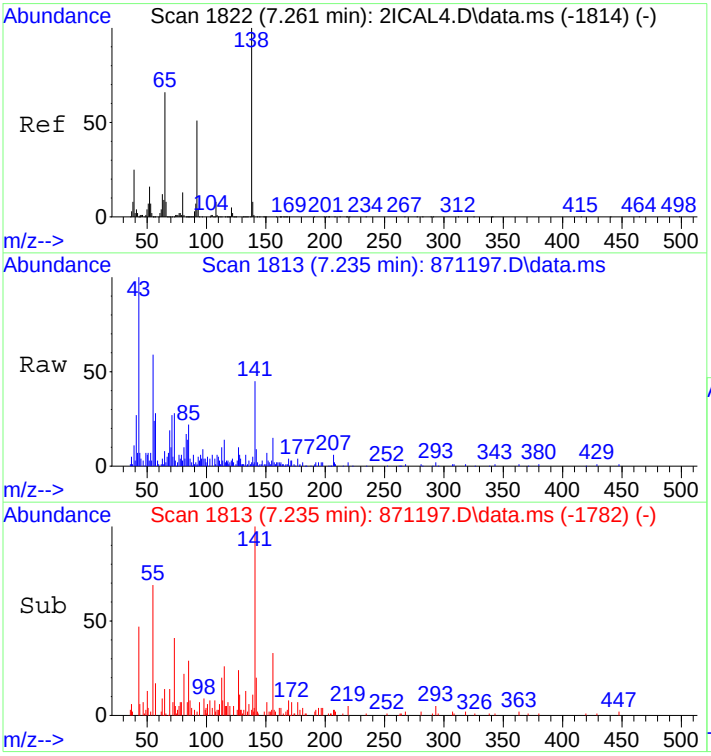


#38
1Methylnaphth
Concen: 0.40 ug/mL
RT: 6.866 min Scan# 1683
Delta R.T. -0.000 min
Lab File: 871197.D
Acq: 2 Dec 10 9:46 pm

Tgt Ion:141 Resp: 28056

Ion	Ratio	Lower	Upper
141	100		
142	99.7	79.5	139.5

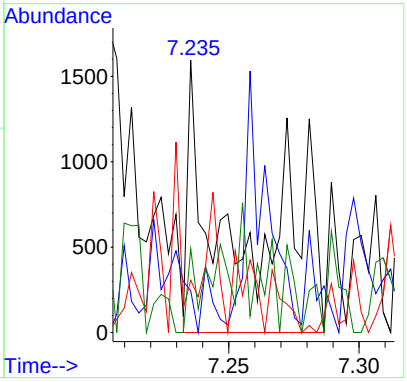


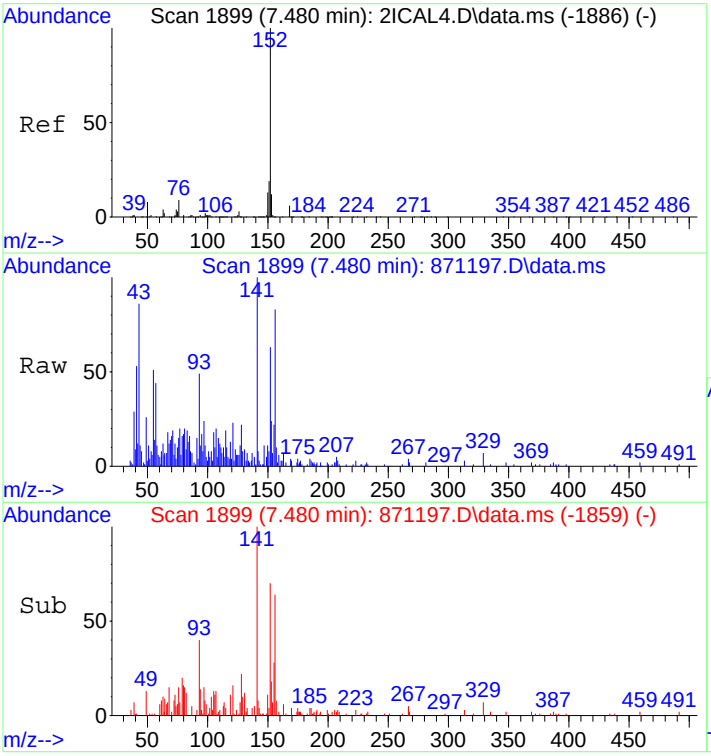


#46
2Nitroaniline
Concen: 0.12 ug/mL
RT: 7.235 min Scan# 1813
Delta R.T. -0.026 min
Lab File: 871197.D
Acq: 2 Dec 10 9:46 pm

Tgt Ion: 65 Resp: 2018

Ion	Ratio	Lower	Upper
65	100		
92	0.0	32.1	92.1#
138	13.2	73.8	133.8#
80	30.7	0.0	55.1

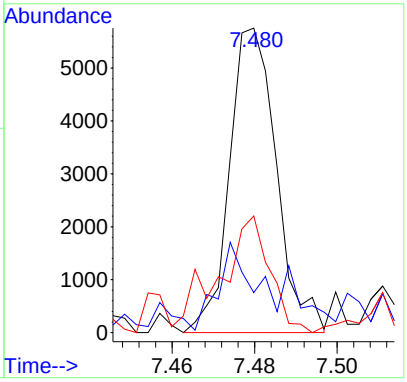


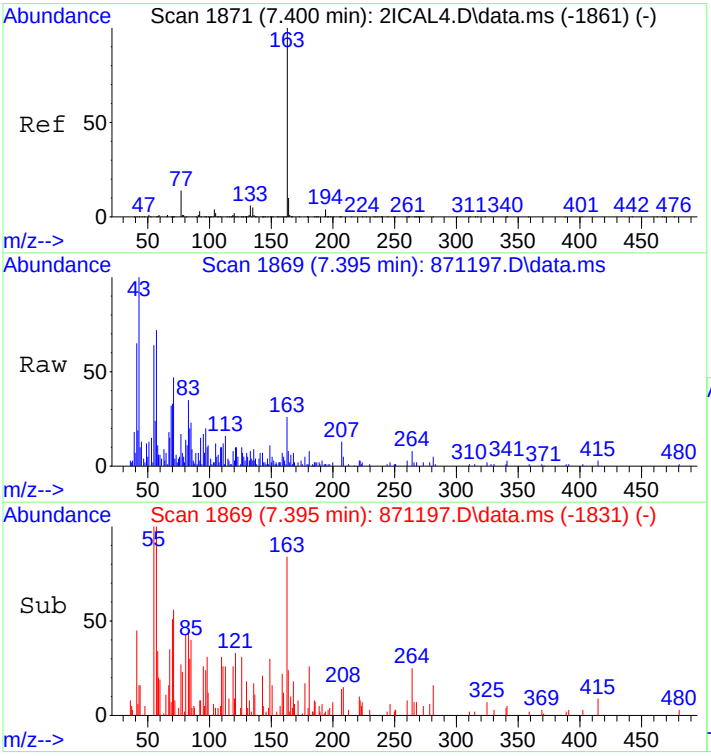


#47
Acnaphthylene
Concen: 0.04 ug/mL
RT: 7.480 min Scan# 1899
Delta R.T. -0.000 min
Lab File: 871197.D
Acq: 2 Dec 10 9:46 pm

Tgt Ion:152 Resp: 4542

Ion	Ratio	Lower	Upper
152	100		
151	8.5	0.0	49.5
153	36.4	0.0	43.0

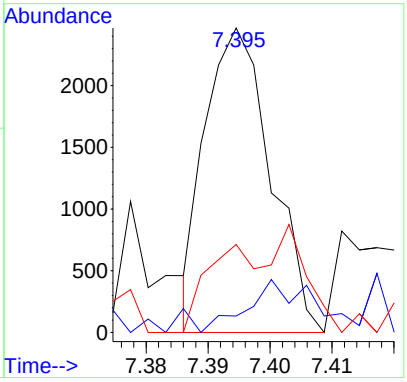


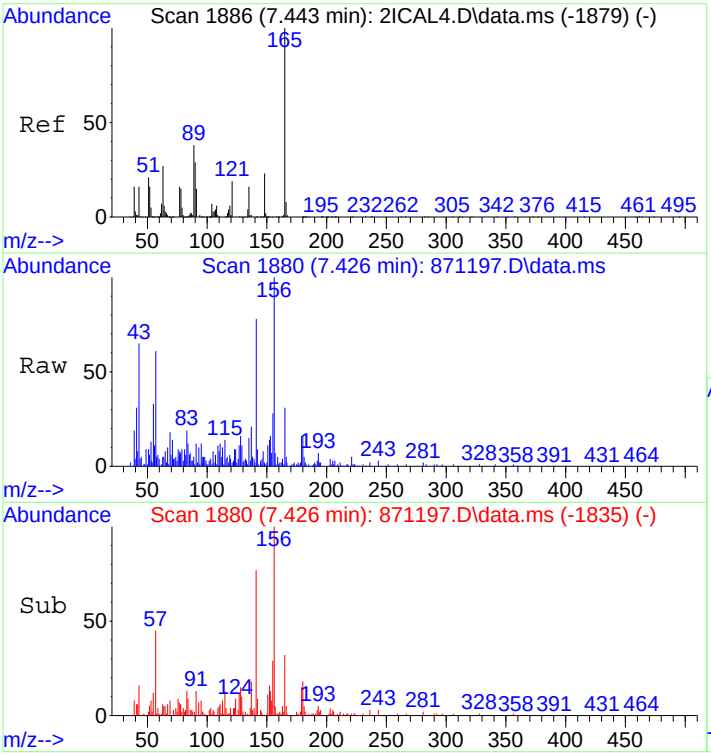


#48
Dimethylphtha
Concen: 0.02 ug/mL
RT: 7.395 min Scan# 1869
Delta R.T. -0.006 min
Lab File: 871197.D
Acq: 2 Dec 10 9:46 pm

Tgt Ion:163 Resp: 1816

Ion	Ratio	Lower	Upper
163	100		
194	0.0	0.0	34.0
164	20.3	0.0	40.3

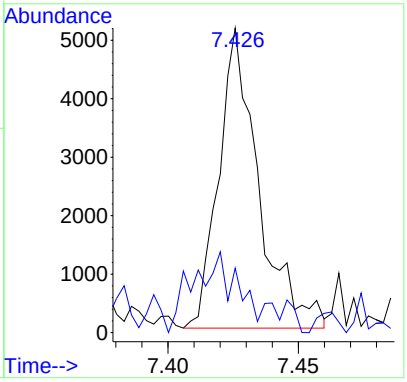


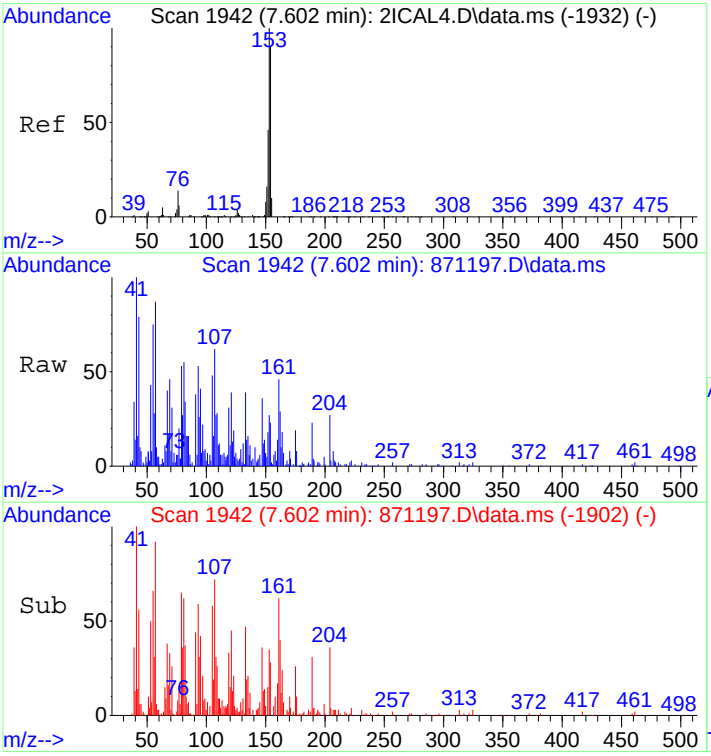


#49
26Dinitrotolu
Concen: 0.29 ug/mL
RT: 7.426 min Scan# 1880
Delta R.T. -0.017 min
Lab File: 871197.D
Acq: 2 Dec 10 9:46 pm

Tgt Ion:165 Resp: 5458

Ion	Ratio	Lower	Upper
165	100		
89	15.1	20.8	80.8#

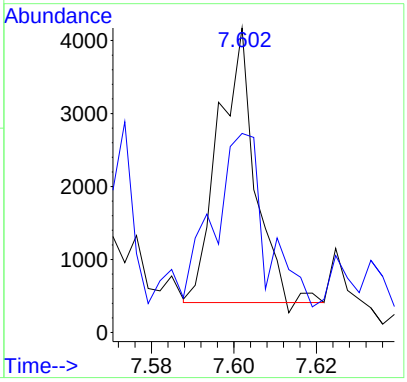


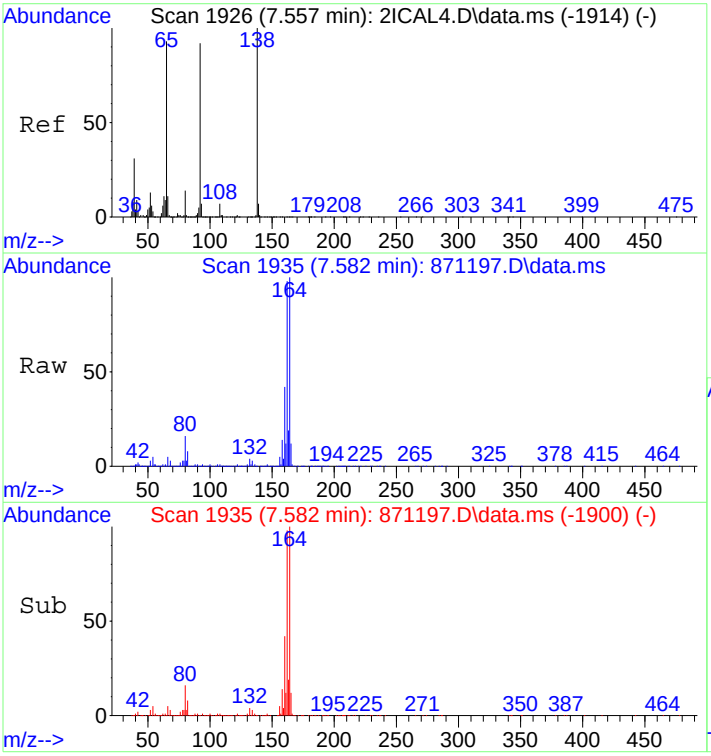


#50
Acenaphthene
Concen: 0.03 ug/mL
RT: 7.602 min Scan# 1942
Delta R.T. -0.000 min
Lab File: 871197.D
Acq: 2 Dec 10 9:46 pm

Tgt Ion:153 Resp: 2316

Ion	Ratio	Lower	Upper
153	100		
152	60.5	15.5	75.5

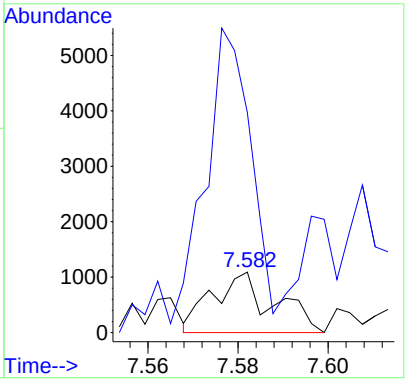


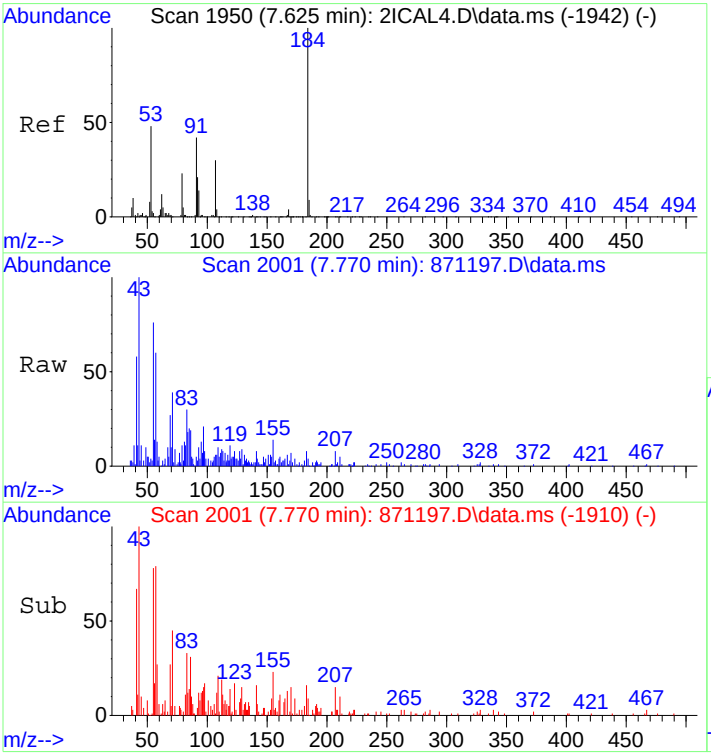


#51
3Nitroaniline
Concen: 0.05 ug/mL
RT: 7.582 min Scan# 1935
Delta R.T. 0.025 min
Lab File: 871197.D
Acq: 2 Dec 10 9:46 pm

Tgt Ion:138 Resp: 1027

Ion	Ratio	Lower	Upper
138	100		
92	282.0	74.6	134.6#

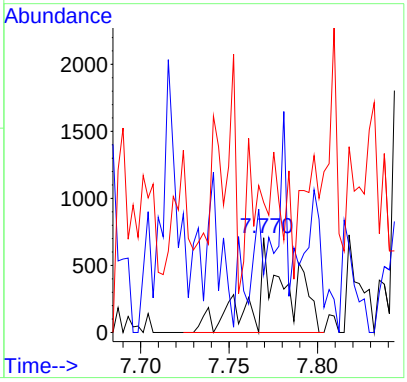


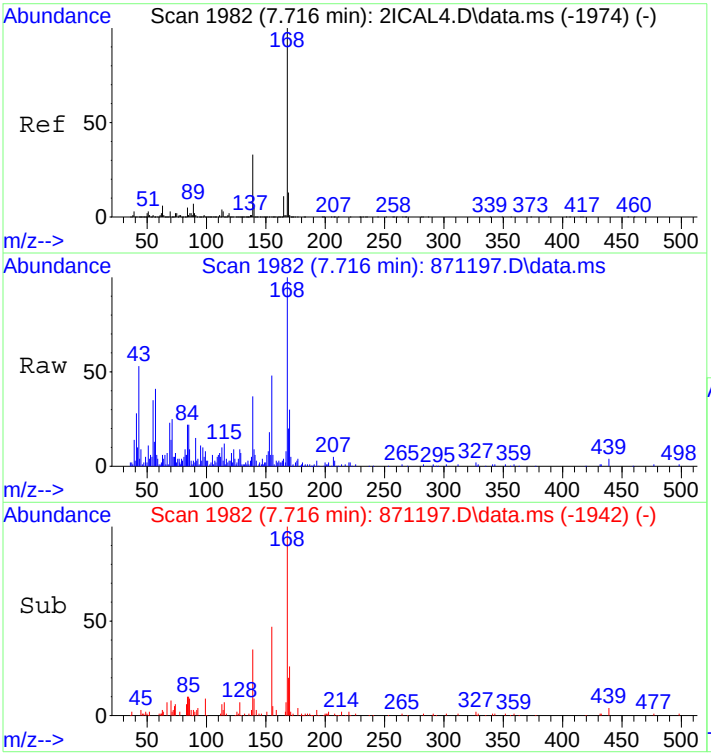


#52
24Dinitphenol
Concen: 2.45 ug/mL
RT: 7.770 min Scan# 2001
Delta R.T. 0.145 min
Lab File: 871197.D
Acq: 2 Dec 10 9:46 pm

Tgt Ion:184 Resp: 978

Ion	Ratio	Lower	Upper
184	100		
63	61.3	44.6	104.6
107	137.4	13.0	73.0#

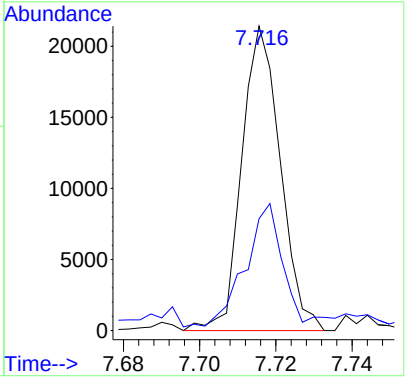


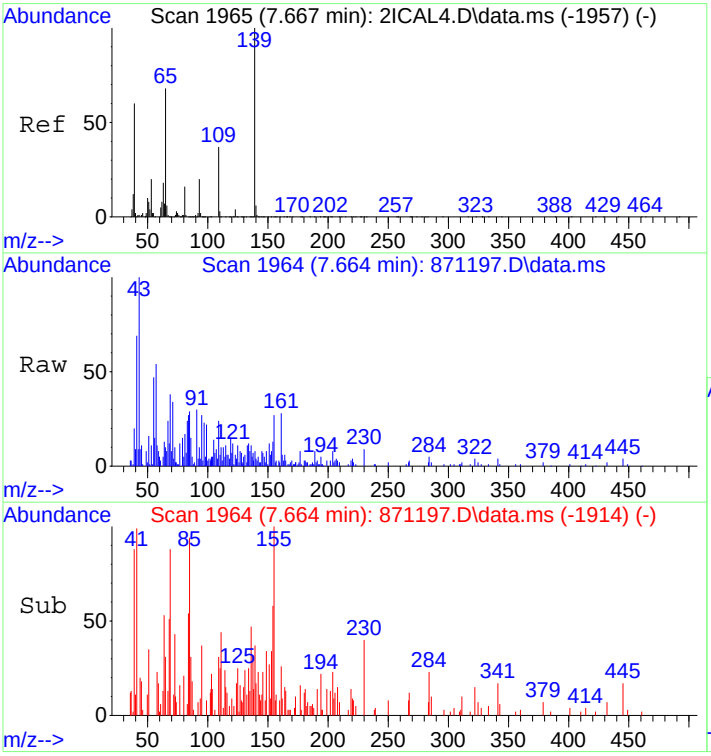


#53
Dibenzofuran
Concen: 0.15 ug/mL
RT: 7.716 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 871197.D
Acq: 2 Dec 10 9:46 pm

Tgt Ion:168 Resp: 15051

Ion	Ratio	Lower	Upper
168	100		
139	35.5	7.1	67.1

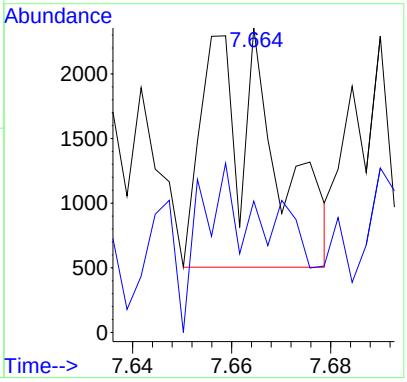


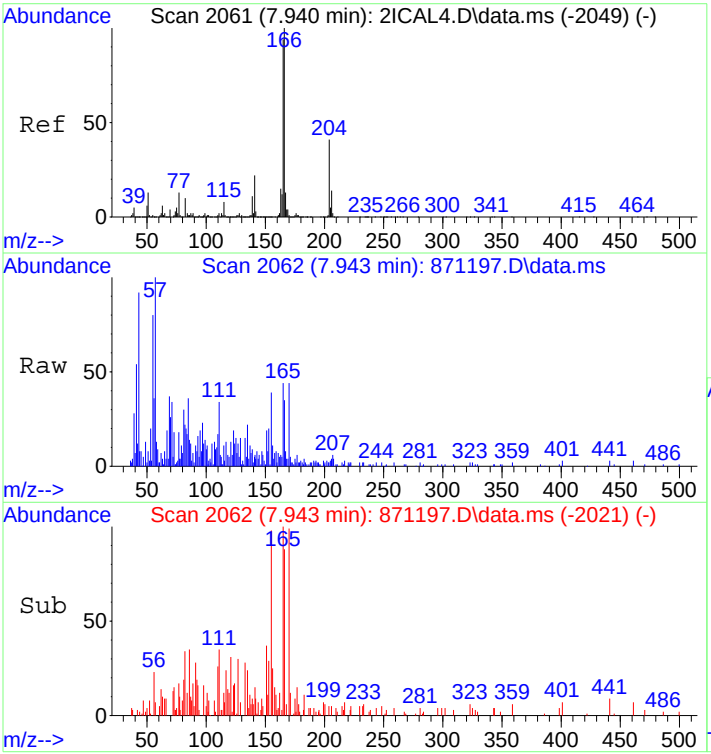


#55
4-Nitrophenol
Concen: 0.27 ug/mL
RT: 7.664 min Scan# 1964
Delta R.T. -0.003 min
Lab File: 871197.D
Acq: 2 Dec 10 9:46 pm

Tgt Ion:109 Resp: 1740

Ion	Ratio	Lower	Upper
109	100		
65	51.9	123.5	183.5#

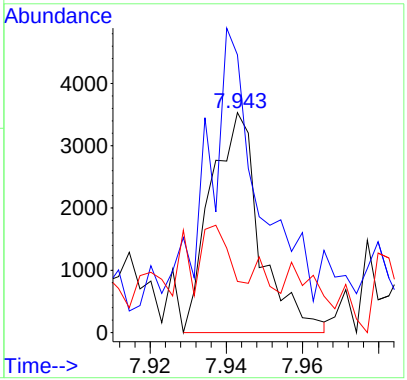


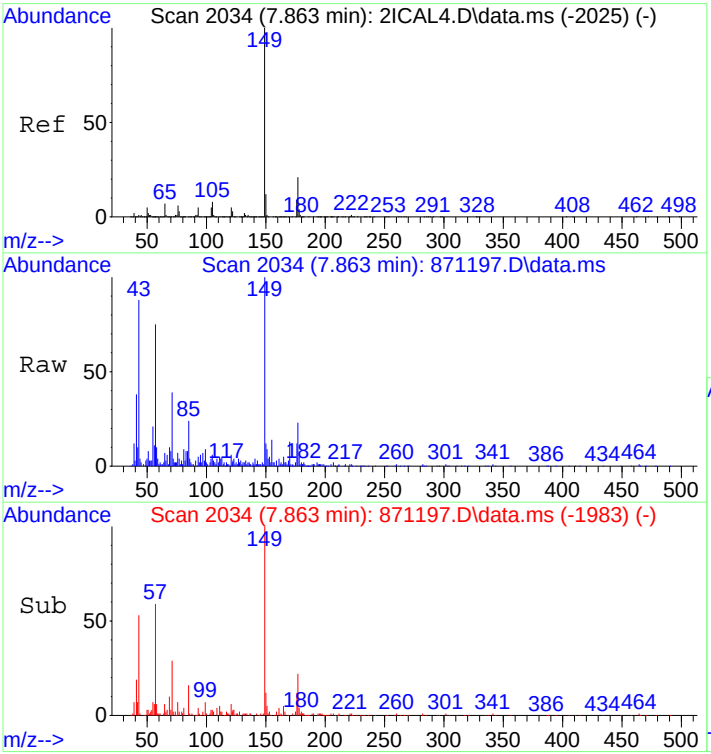


#58
Fluorene
Concen: 0.04 ug/mL
RT: 7.943 min Scan# 2062
Delta R.T. 0.003 min
Lab File: 871197.D
Acq: 2 Dec 10 9:46 pm

Tgt Ion:166 Resp: 3212

Ion	Ratio	Lower	Upper
166	100		
165	93.4	64.5	124.5
167	7.0	0.0	42.6

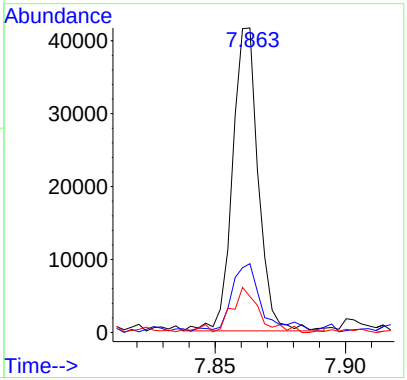


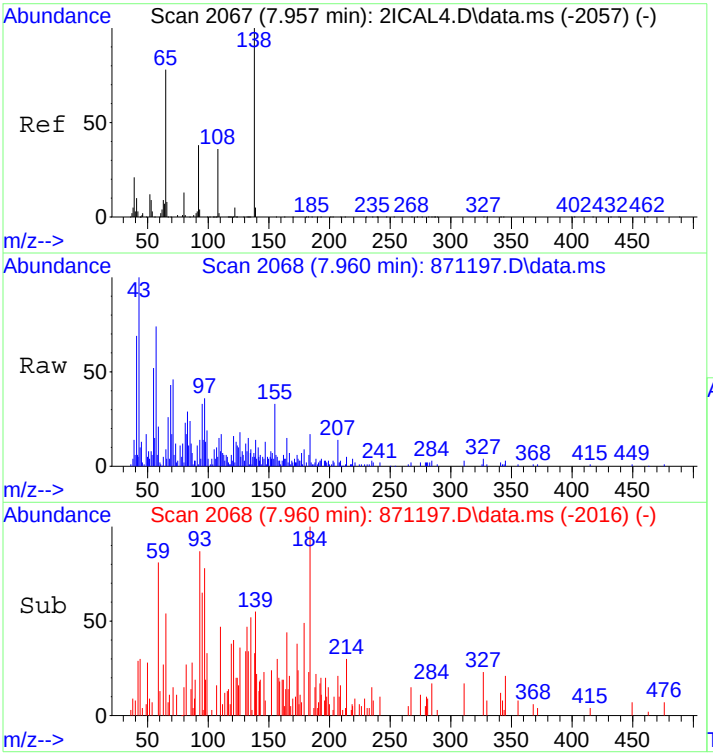


#60
Diethylphthal
Concen: 0.33 ug/mL
RT: 7.863 min Scan# 2034
Delta R.T. -0.000 min
Lab File: 871197.D
Acq: 2 Dec 10 9:46 pm

Tgt Ion:149 Resp: 28633

Ion	Ratio	Lower	Upper
149	100		
177	21.5	0.0	52.2
150	11.5	0.0	42.5

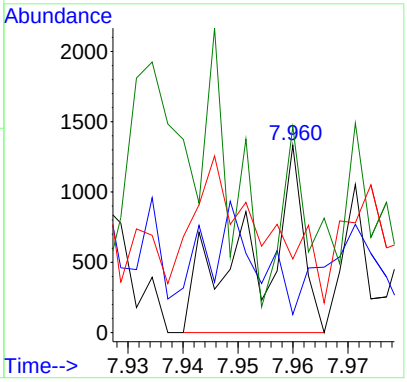


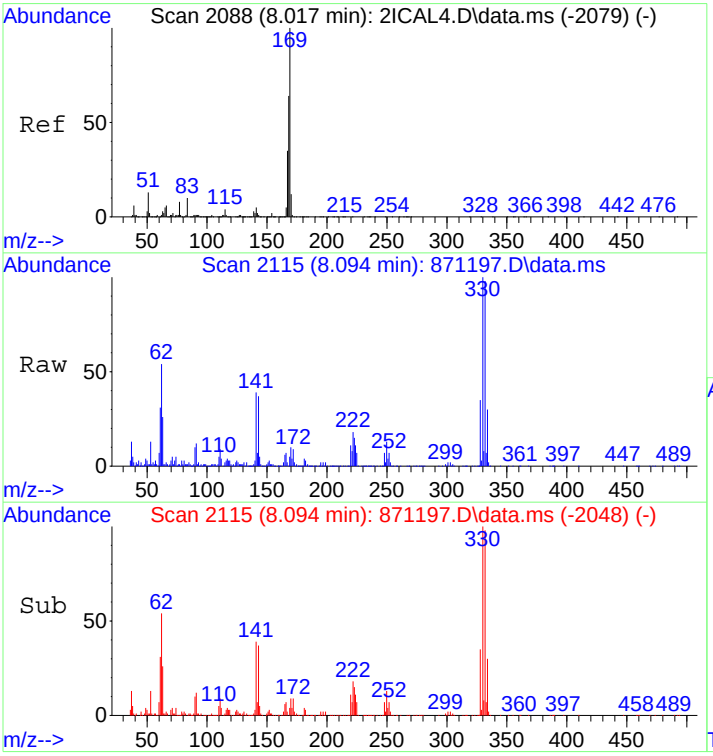


#61
4Nitroaniline
Concen: 0.04 ug/mL
RT: 7.960 min Scan# 2068
Delta R.T. 0.003 min
Lab File: 871197.D
Acq: 2 Dec 10 9:46 pm

Tgt Ion:138 Resp: 808

Ion	Ratio	Lower	Upper
138	100		
92	0.0	19.9	79.9#
108	23.5	39.4	99.4#
139	48.9	0.0	41.3#

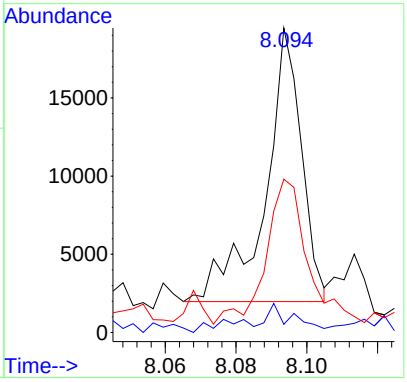


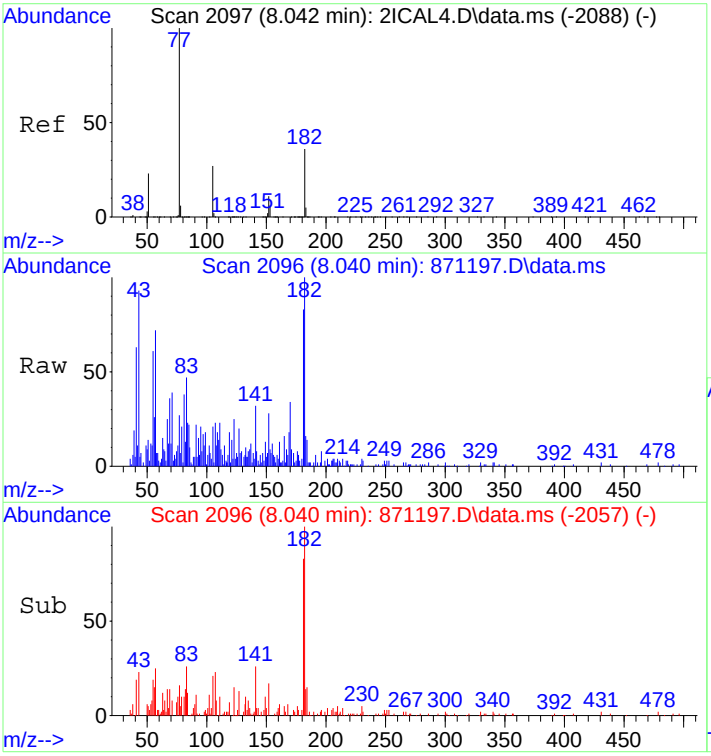


#65
Ntrsdiphlam&Diphlam
Concen: 0.22 ug/mL
RT: 8.094 min Scan# 2115
Delta R.T. 0.077 min
Lab File: 871197.D
Acq: 2 Dec 10 9:46 pm

Tgt Ion:169 Resp: 12529

Ion	Ratio	Lower	Upper
169	100		
168	1.5	34.8	94.8#
167	49.1	4.6	64.6

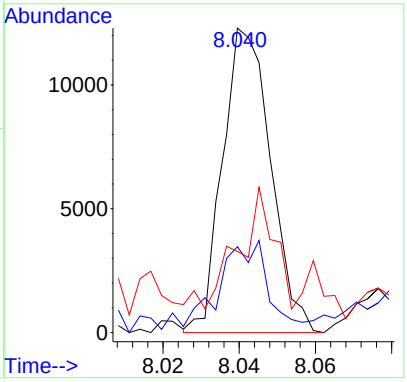


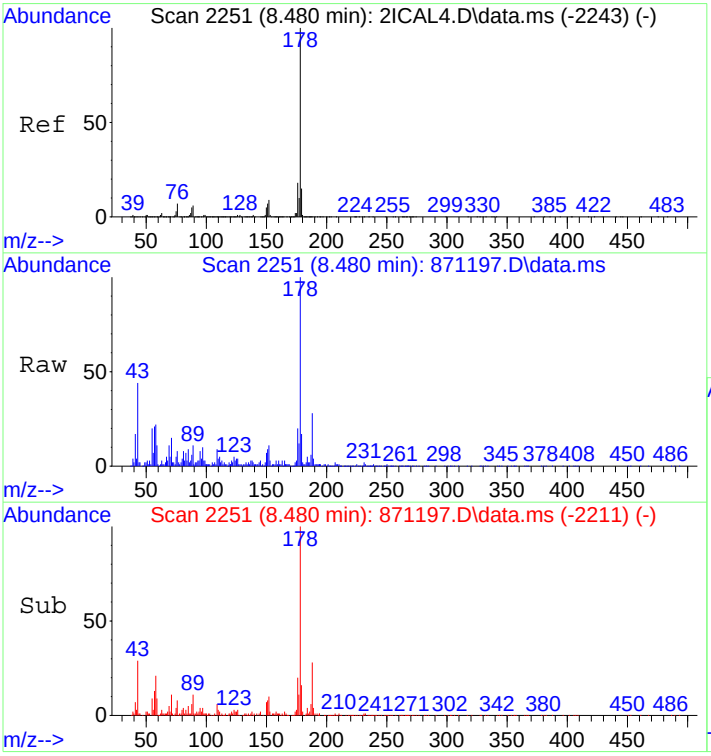


#66
Azobenz&12Diphlhyd
Concen: 0.50 ug/mL
RT: 8.040 min Scan# 2096
Delta R.T. -0.003 min
Lab File: 871197.D
Acq: 2 Dec 10 9:46 pm

Tgt Ion:182 Resp: 10770

Ion	Ratio	Lower	Upper
182	100		
152	26.2	3.5	63.5
77	17.5	348.6	408.6#

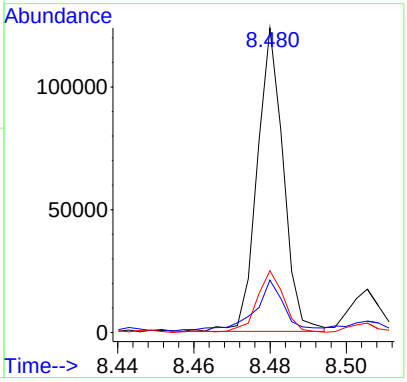


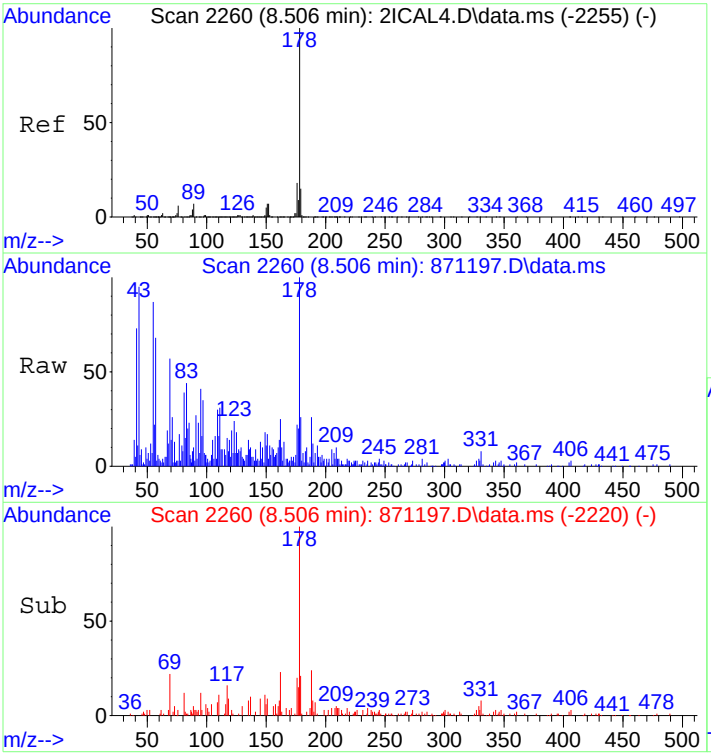


#70
Phenanthrene
Concen: 0.58 ug/mL
RT: 8.480 min Scan# 2251
Delta R.T. -0.000 min
Lab File: 871197.D
Acq: 2 Dec 10 9:46 pm

Tgt Ion:178 Resp: 58802

Ion	Ratio	Lower	Upper
178	100		
179	16.3	0.0	44.4
176	20.3	0.0	48.0

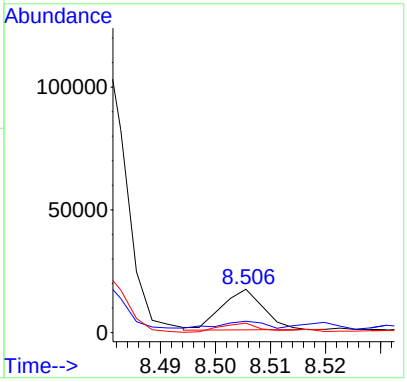


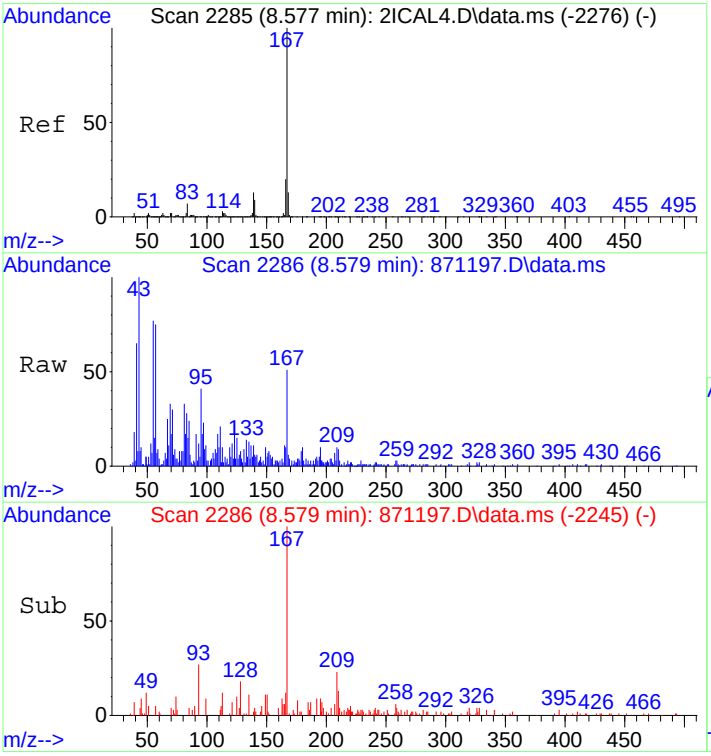


#71
Anthracene
Concen: 0.08 ug/mL
RT: 8.506 min Scan# 2260
Delta R.T. -0.000 min
Lab File: 871197.D
Acq: 2 Dec 10 9:46 pm

Tgt Ion:178 Resp: 8731

Ion	Ratio	Lower	Upper
178	100		
179	17.0	0.0	45.0
176	22.6	0.0	48.4

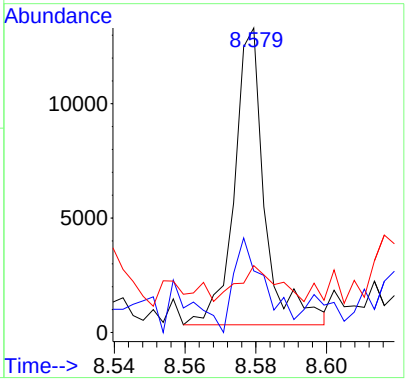


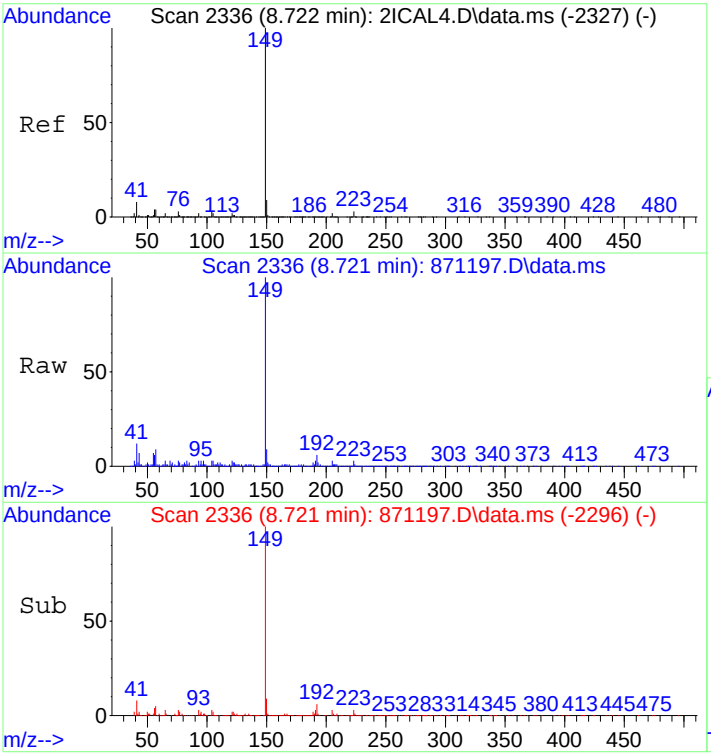


#72
Carbazole
Concen: 0.09 ug/mL
RT: 8.579 min Scan# 2286
Delta R.T. 0.003 min
Lab File: 871197.D
Acq: 2 Dec 10 9:46 pm

Tgt Ion:167 Resp: 7735

Ion	Ratio	Lower	Upper
167	100		
166	12.5	0.0	50.6
139	11.7	0.0	43.0

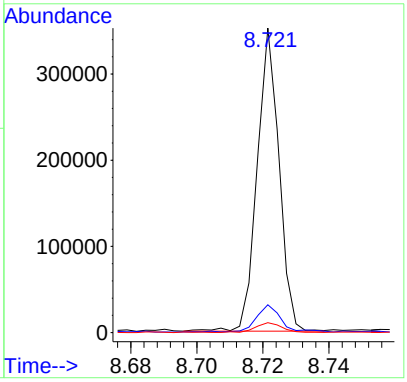


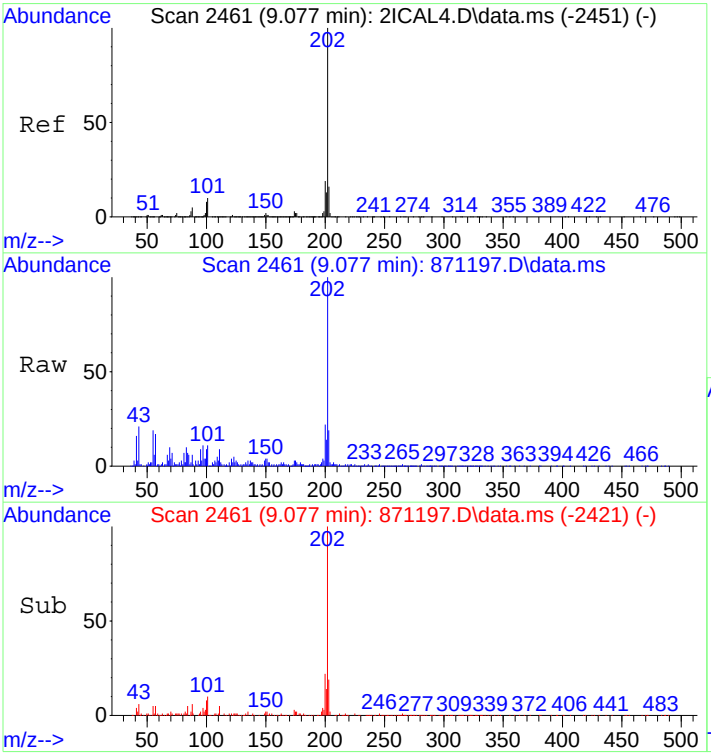


#73
Dinbtylphthal
Concen: 1.37 ug/mL
RT: 8.721 min Scan# 2336
Delta R.T. -0.000 min
Lab File: 871197.D
Acq: 2 Dec 10 9:46 pm

Tgt Ion:149 Resp: 161807

Ion	Ratio	Lower	Upper
149	100		
150	9.0	0.0	38.5
104	3.2	0.0	34.3

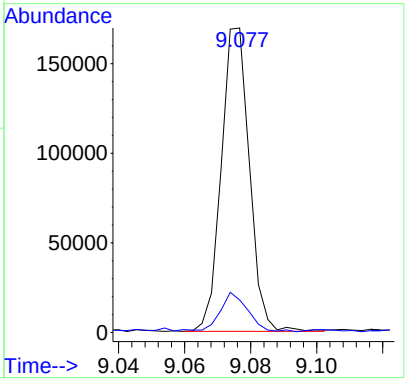


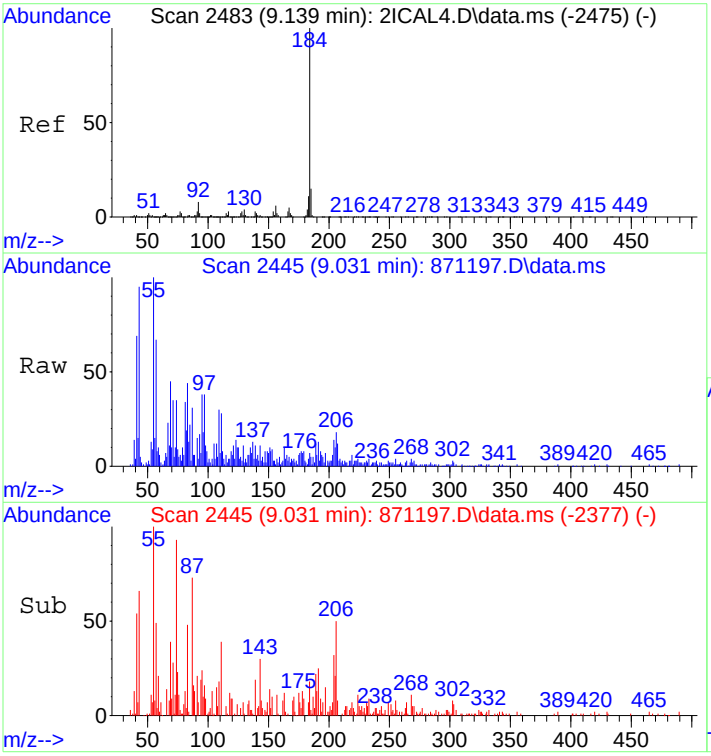


#74
Fluoranthene
Concen: 0.98 ug/mL
RT: 9.077 min Scan# 2461
Delta R.T. -0.000 min
Lab File: 871197.D
Acq: 2 Dec 10 9:46 pm

Tgt Ion:202 Resp: 100536

Ion	Ratio	Lower	Upper
202	100		
101	9.8	0.0	41.2

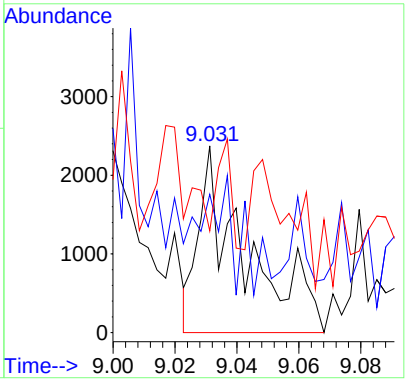


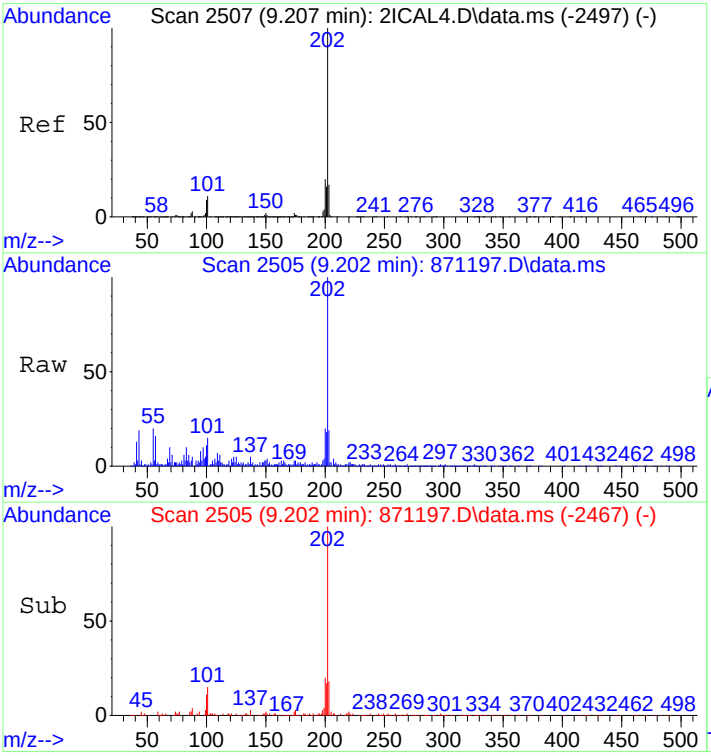


#76
Benzidine
Concen: Below ug/mL
RT: 9.031 min Scan# 2445
Delta R.T. -0.108 min
Lab File: 871197.D
Acq: 2 Dec 10 9:46 pm

Tgt Ion:184 Resp: 2454

Ion	Ratio	Lower	Upper
184	100		
185	53.1	0.0	43.8#
183	0.0	0.0	41.8

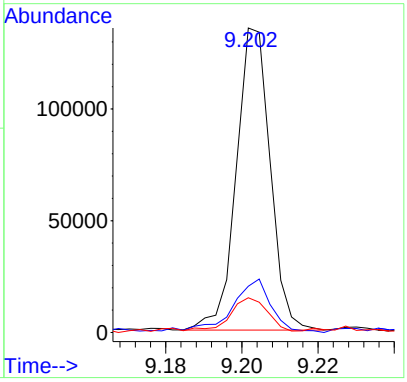


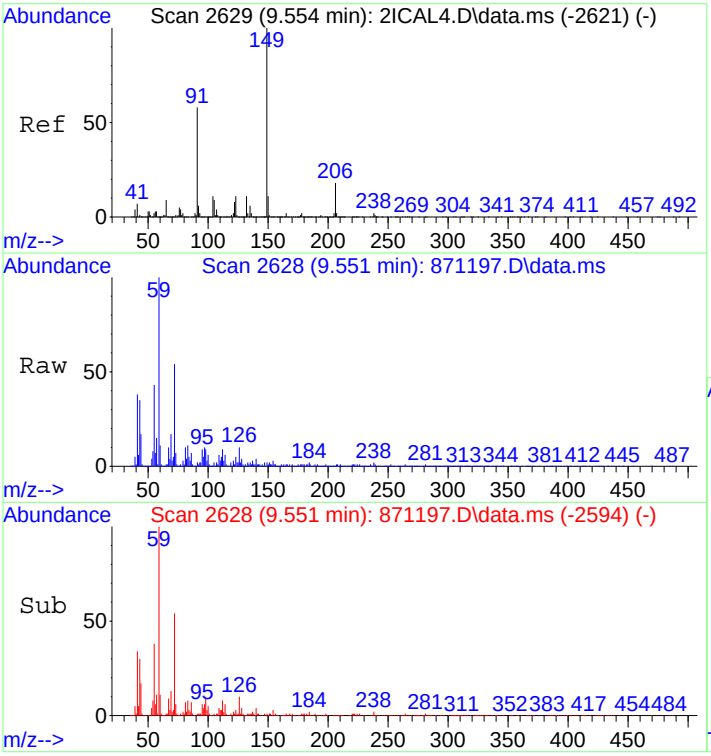


#77
Pyrene
Concen: 0.80 ug/mL
RT: 9.202 min Scan# 2505
Delta R.T. -0.006 min
Lab File: 871197.D
Acq: 2 Dec 10 9:46 pm

Tgt Ion:202 Resp: 83775

Ion	Ratio	Lower	Upper
202	100		
101	15.3	0.0	44.0
100	10.9	0.0	42.2

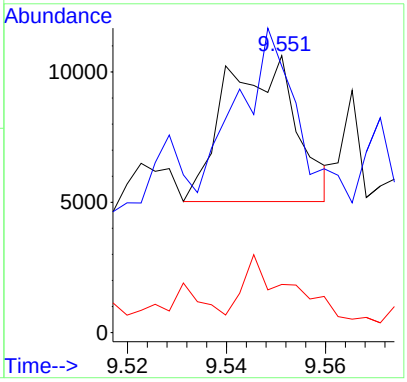


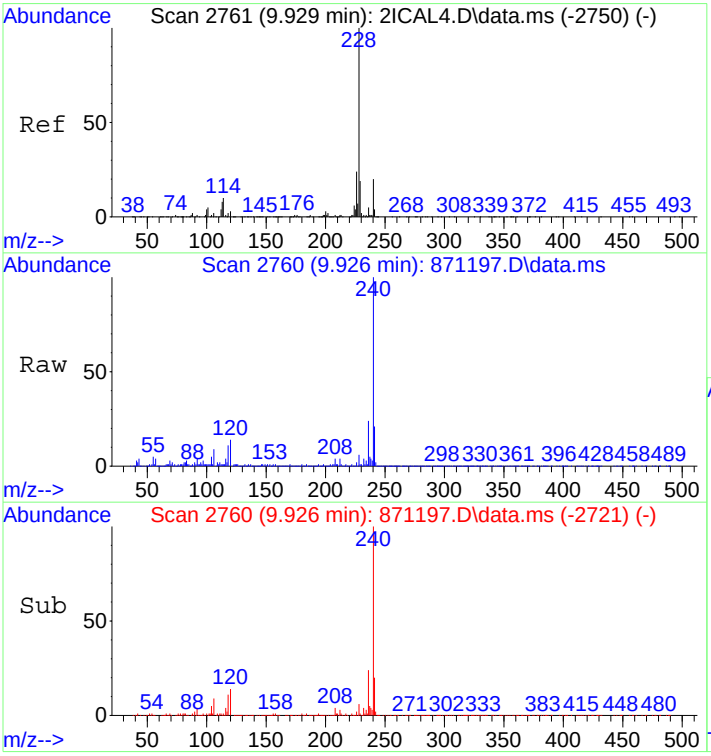


#79
Btylbzylphth
Concen: 0.11 ug/mL
RT: 9.551 min Scan# 2628
Delta R.T. -0.003 min
Lab File: 871197.D
Acq: 2 Dec 10 9:46 pm

Tgt Ion:149 Resp: 5564

Ion	Ratio	Lower	Upper
149	100		
91	74.5	40.5	100.5
206	8.3	0.0	48.9

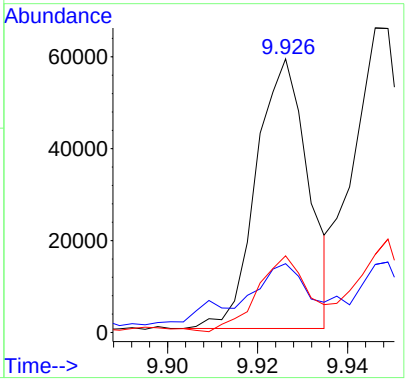


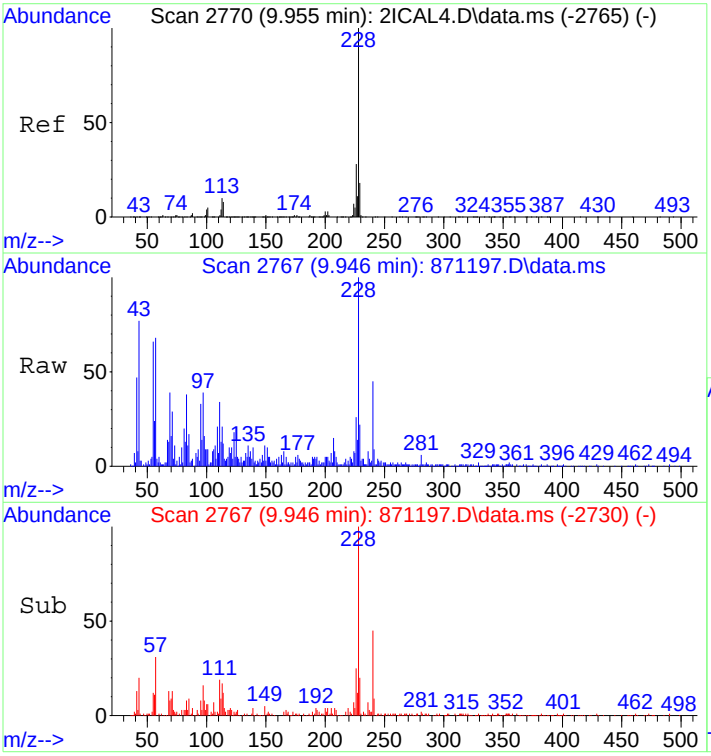


#81
B[a]anthracen
Concen: 0.48 ug/mL
RT: 9.926 min Scan# 2760
Delta R.T. -0.003 min
Lab File: 871197.D
Acq: 2 Dec 10 9:46 pm

Tgt Ion:228 Resp: 47231

Ion	Ratio	Lower	Upper
228	100		
229	21.6	0.0	48.8
226	27.0	0.0	56.6

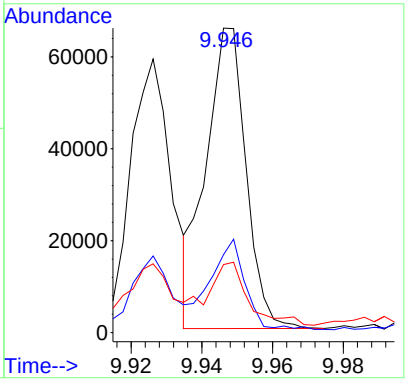


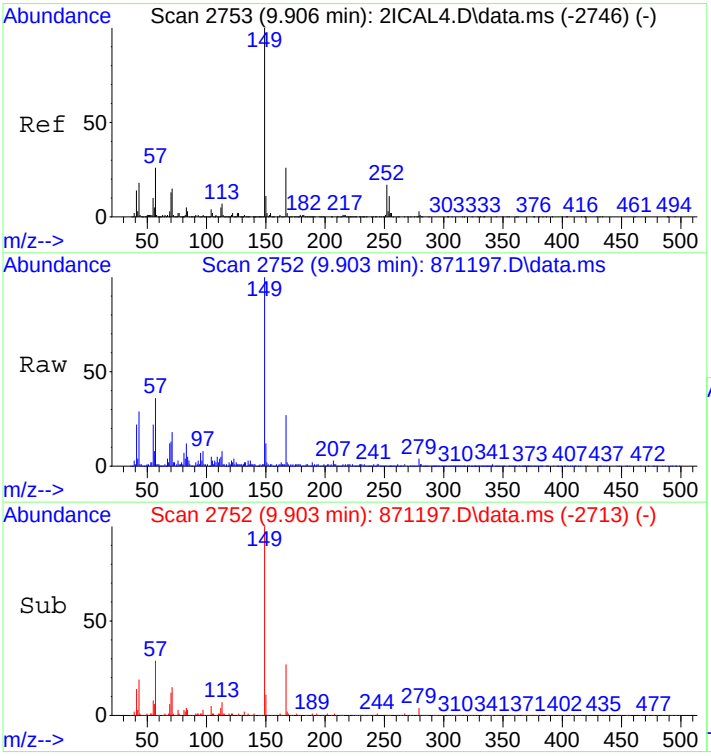


#82
Chrysene
Concen: 0.55 ug/mL
RT: 9.946 min Scan# 2767
Delta R.T. -0.009 min
Lab File: 871197.D
Acq: 2 Dec 10 9:46 pm

Tgt Ion:228 Resp: 51701

Ion	Ratio	Lower	Upper
228	100		
226	24.9	0.0	58.6
229	19.5	0.0	49.6

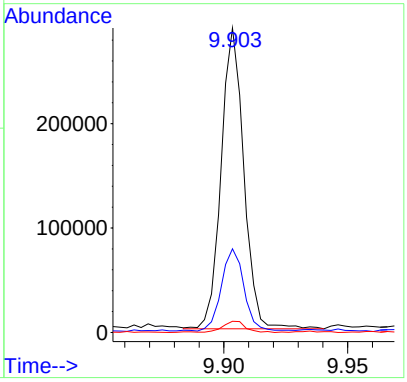


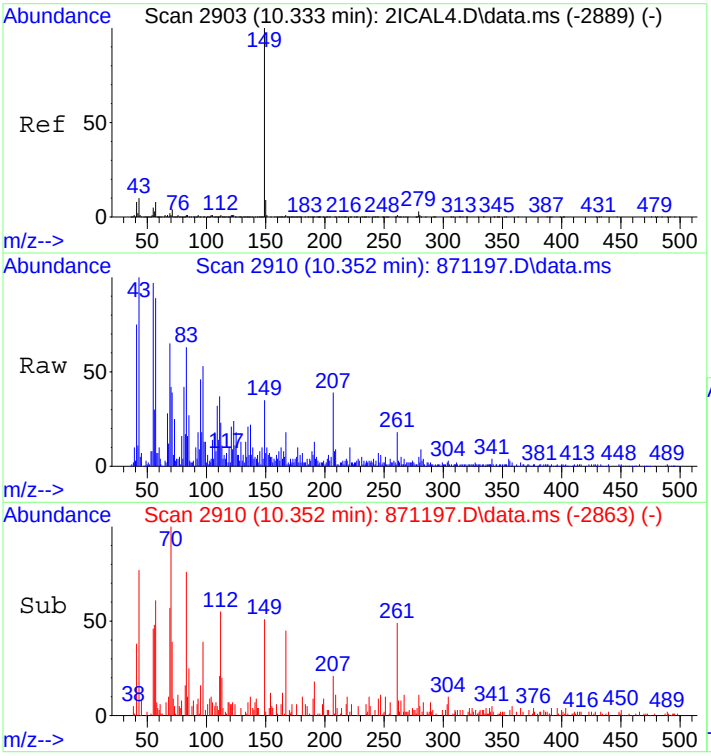


#83
bis2Ethlhxlph
Concen: 2.49 ug/mL
RT: 9.903 min Scan# 2752
Delta R.T. -0.003 min
Lab File: 871197.D
Acq: 2 Dec 10 9:46 pm

Tgt Ion:149 Resp: 184234

Ion	Ratio	Lower	Upper
149	100		
167	27.0	0.0	56.9
279	3.6	0.0	33.6

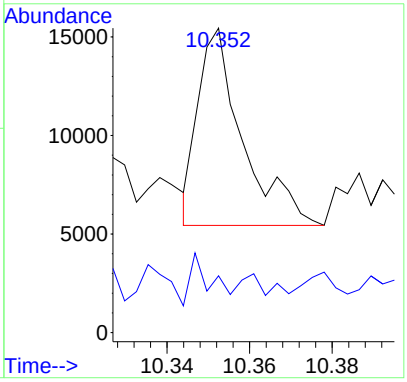


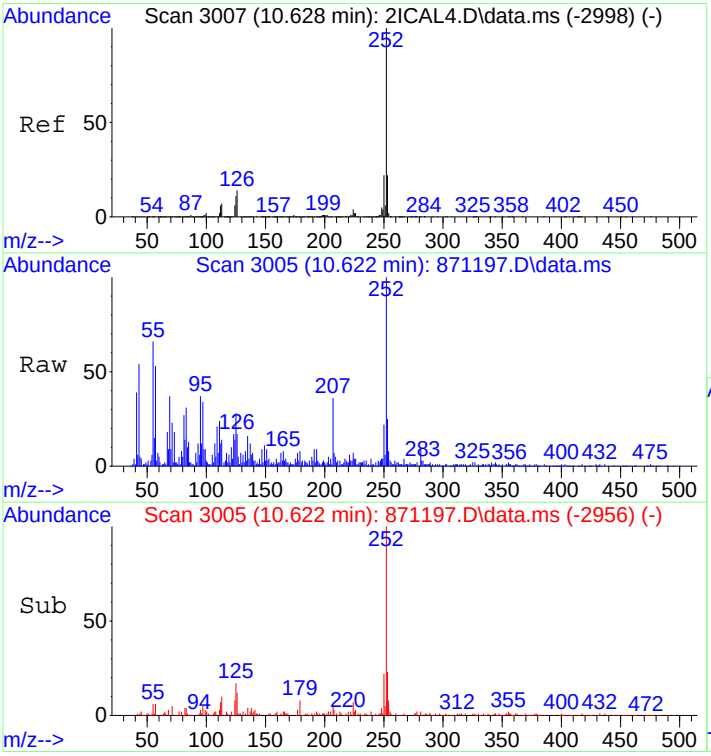


#84
Dinoctylphthl
Concen: 0.06 ug/mL
RT: 10.352 min Scan# 2910
Delta R.T. 0.020 min
Lab File: 871197.D
Acq: 2 Dec 10 9:46 pm

Tgt Ion:149 Resp: 7510

Ion	Ratio	Lower	Upper
149	100		
150	15.3	0.0	39.0

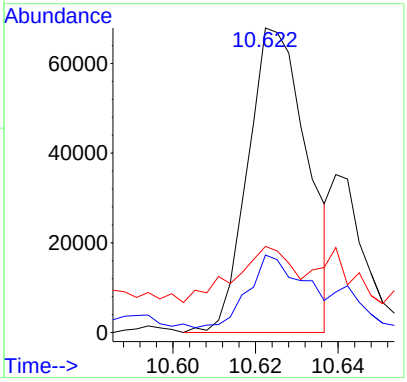


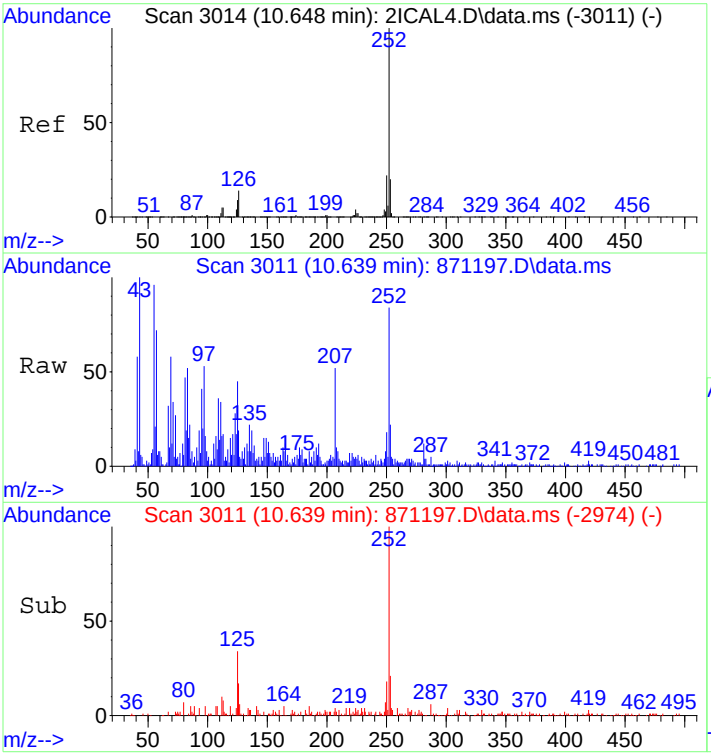


#86
B[b]fluoranth
Concen: 0.76 ug/mL
RT: 10.622 min Scan# 3005
Delta R.T. -0.006 min
Lab File: 871197.D
Acq: 2 Dec 10 9:46 pm

Tgt Ion:252 Resp: 67709

Ion	Ratio	Lower	Upper
252	100		
253	22.6	0.0	50.8
125	18.4	0.0	41.9

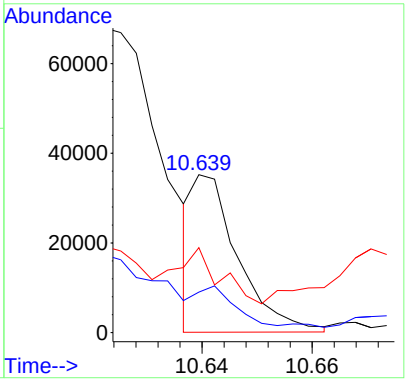


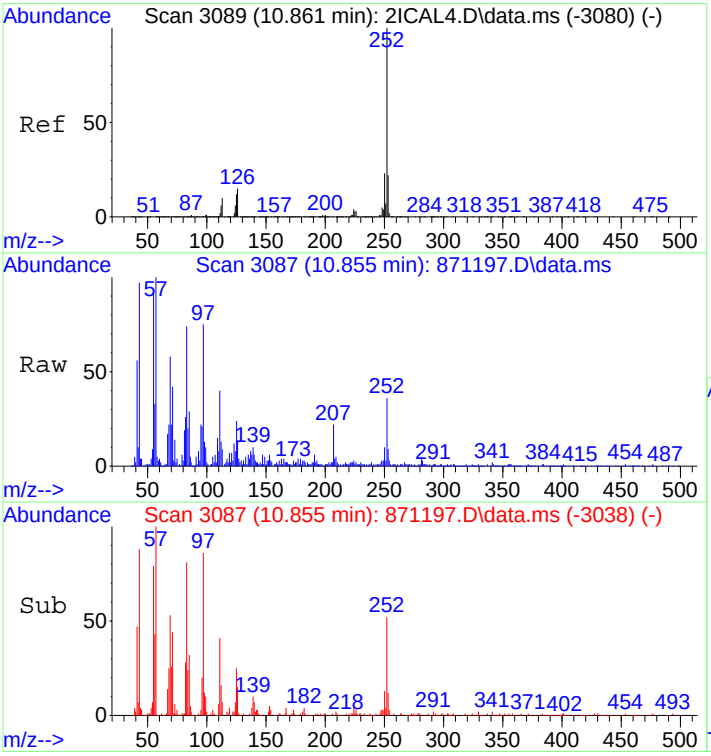


#87
B[k]fluoranth
Concen: 0.24 ug/mL
RT: 10.639 min Scan# 3011
Delta R.T. -0.009 min
Lab File: 871197.D
Acq: 2 Dec 10 9:46 pm

Tgt Ion:252 Resp: 20131

Ion	Ratio	Lower	Upper
252	100		
253	23.1	0.0	50.8
125	26.3	0.0	41.3

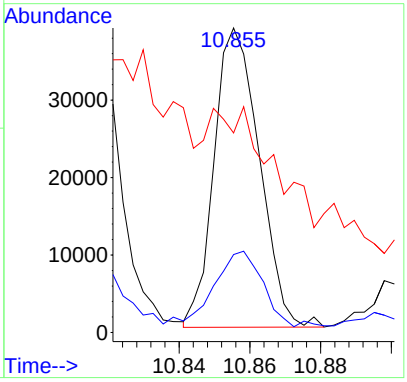


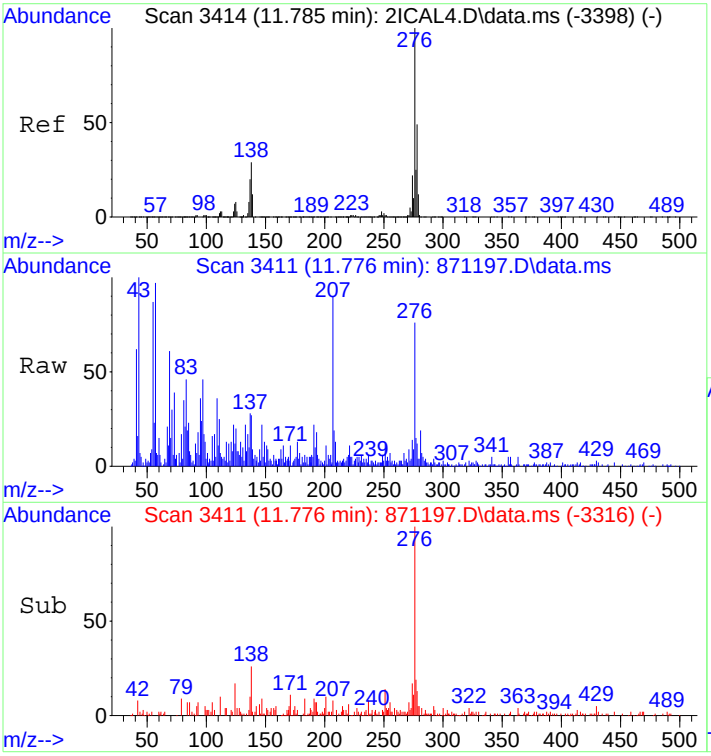


#88
Benz[a]pyrene
Concen: 0.42 ug/mL
RT: 10.855 min Scan# 3087
Delta R.T. -0.006 min
Lab File: 871197.D
Acq: 2 Dec 10 9:46 pm

Tgt Ion:252 Resp: 34267

Ion	Ratio	Lower	Upper
252	100		
253	23.8	0.0	50.4
125	27.0	0.0	43.2

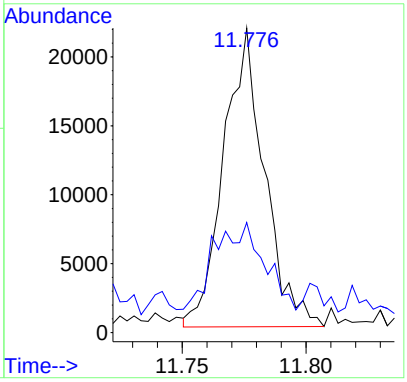


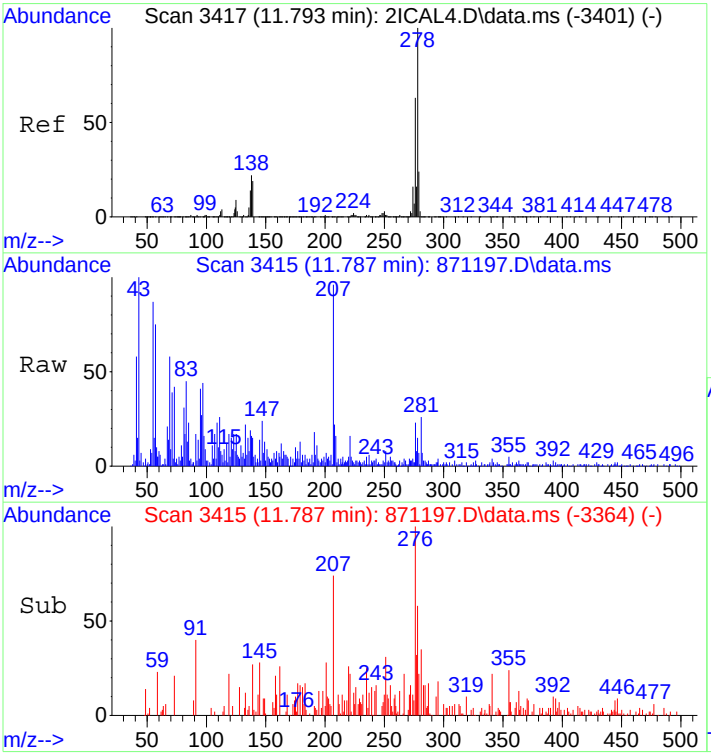


#89
Indeno-pyrene
Concen: 0.30 ug/mL
RT: 11.776 min Scan# 3411
Delta R.T. -0.009 min
Lab File: 871197.D
Acq: 2 Dec 10 9:46 pm

Tgt Ion:276 Resp: 24918

Ion	Ratio	Lower	Upper
276	100		
138	29.1	2.2	62.2

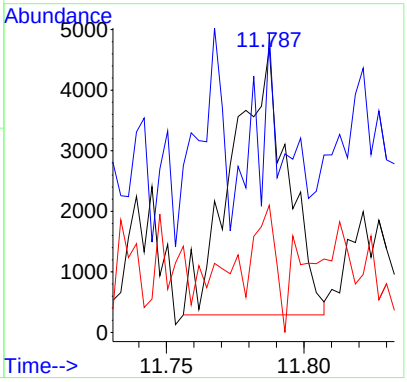


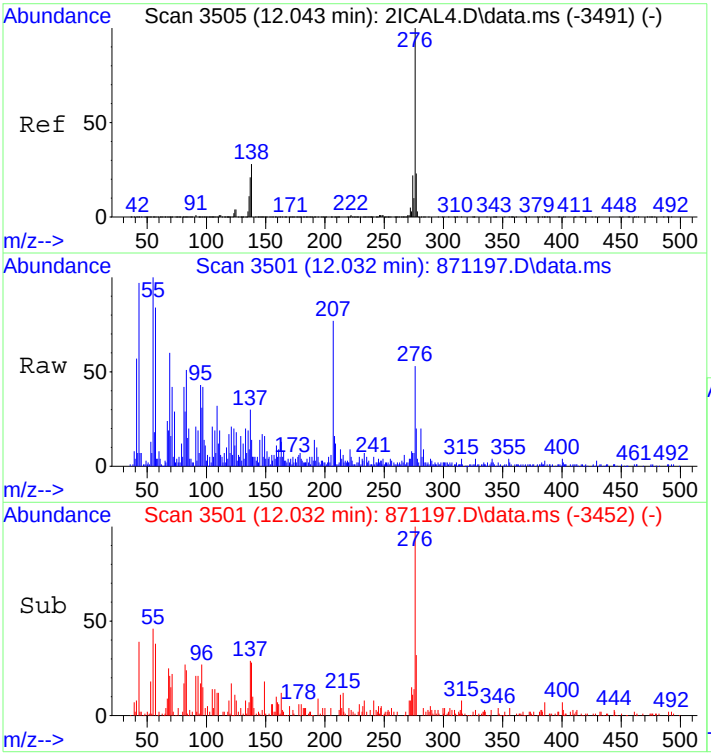


#90
Dib[ah]anthr
Concen: 0.09 ug/mL
RT: 11.787 min Scan# 3415
Delta R.T. -0.006 min
Lab File: 871197.D
Acq: 2 Dec 10 9:46 pm

Tgt Ion:278 Resp: 6142

Ion	Ratio	Lower	Upper
278	100		
139	49.6	0.0	50.7
279	20.2	0.0	54.3

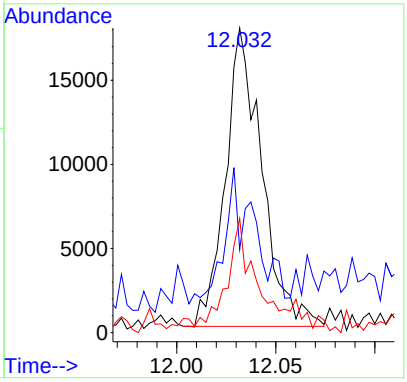




#91
B[ghi]perylen
Concen: 0.33 ug/mL
RT: 12.032 min Scan# 3501
Delta R.T. -0.011 min
Lab File: 871197.D
Acq: 2 Dec 10 9:46 pm

Tgt Ion:276 Resp: 22625

Ion	Ratio	Lower	Upper
276	100		
138	11.6	0.0	57.5
277	34.1	0.0	53.1



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\871198.D Vial: 11
Acq On : 2 Dec 2010 22:06 Operator: RPN
Sample : 72180,871198,1 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 14 09:00:57 2010

RPN 12/13/10

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Tue Dec 14 08:47:34 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Manual Integration: Benzo(b)fluoranthene & benzo(k)fluoranthene. Reason#3

Compound		R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards							
1) 14Diclbenzd4		4.428	152	548408	20.00	ug/mL	0.00
21) Naphthalened8		6.073	136	2504036	20.00	ug/mL	0.00
39) Acenaphthened10		7.579	164	1339660	20.00	ug/mL	0.00
63) Phenanthrd10		8.471	188	1987642	20.00	ug/mL	0.00
75) Chrysene-d12		9.932	240	1836038	20.00	ug/mL	0.00
85) Perylene-d12		10.901	264	1525966	20.00	ug/mL	0.00
System Monitoring Compounds							
4) SURR2Flphenol		3.192	112	946285	69.31	%REC	0.03
Spiked Amount	100.000	Range 20 - 110		Recovery = 69.31%			
7) SURRPhenol-d5		3.999	99	1200406	73.20	%REC	0.00
Spiked Amount	100.000	Range 10 - 115		Recovery = 73.20%			
22) SURRNitrbenzened5		5.121	82	417167	69.04	%REC	0.00
Spiked Amount	100.000	Range 40 - 110		Recovery = 69.04%			
44) SURR2Flbiphenyl		7.090	172	1255437	71.63	%REC	0.00
Spiked Amount	100.000	Range 50 - 110		Recovery = 71.63%			
62) SURR246Tribrphenl		8.096	330	278251	68.69	%REC	0.00
Spiked Amount	100.000	Range 40 - 125		Recovery = 68.69%			
78) SURRTerphenyl-d14		9.273	244	986919	74.00	ug/mL	0.00
Spiked Amount	100.000	Range 50 - 135		Recovery = 74.00%			
Target Compounds							Qvalue
2) Ntrsdimeth		2.294	74	4517	0.2320	ug/mL#	1
6) bis2Clethletr		4.104	93	6133	0.1869	ug/mL#	42
8) Phenol		4.013	94	16985	0.4202	ug/mL	83
12) 12Diclbenz		4.627	146	4982	0.1215	ug/mL	87
13) Benzyl alcoho		4.613	108	437	0.9224	ug/mL#	1
14) bis2clispreth		4.763	45	2087	0.0334	ug/mL	63
15) 2Methylphenol		4.672	108	958	0.0310	ug/mL	92
17) Acetophenone		4.905	105	28819	0.6248	ug/mL#	20
18) Hexaclethane		5.030	117	1833	0.1272	ug/mL#	21
19) N-Ntrsdinprop		4.894	70	1840	0.0891	ug/mL	79
20) 3&4Methylphenol		4.931	108	3415	0.1108	ug/mL#	50
24) Isophorone		5.499	82	4830	0.0709	ug/mL	74
25) 2-Nitrophenol		5.607	139	1539	0.0667	ug/mL#	41
26) 24Dimthpheno		5.843	107	6613	0.1891	ug/mL#	20
27) bis2clethoxym		5.815	93	1583	0.0337	ug/mL#	78
30) Benzoic acid		5.744	105	8210	3.2231	ug/mL	77
31) Naphthalene		6.096	128	339996	2.6605	ug/mL	97
32) 4-Cl-aniline		6.096	127	44941	0.9375	ug/mL#	40
33) 26Diclphenol		6.204	162	1776	0.0601	ug/mL#	39
36) 4Cl3methylphe		6.667	107	1184	0.0379	ug/mL#	30
37) 2Methylnaphth		6.781	141	355418	4.9823	ug/mL	95
38) 1Methylnaphth		6.866	141	287356	3.8811	ug/mL	98
45) 2Clnaphthalen		7.215	162	2230	0.0288	ug/mL#	47
46) 2Nitroaniline		7.284	65	3118	0.1725	ug/mL#	43
47) Acnaphthylene		7.480	152	19542	0.1474	ug/mL#	27
48) Dimethylphtha		7.394	163	3269	0.0359	ug/mL	42
49) 26Dinitrotolu		7.426	165	8884	0.4516	ug/mL	89
50) Acenaphthene		7.599	153	12392	0.1487	ug/mL	88
51) 3Nitroaniline		7.545	138	7812	0.3710	ug/mL#	50
52) 24Dinitphenol		7.676	184	955	2.4483	ug/mL#	1
53) Dibenzofuran		7.716	168	95150	0.8773	ug/mL	97
54) 24Dinitrotolu		7.718	165	5075	0.2084	ug/mL	77
55) 4-Nitrophenol		7.659	109	8585	1.2724	ug/mL#	10
58) Fluorene		7.943	166	13303	0.1521	ug/mL	79

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\871198.D Vial: 11
Acq On : 2 Dec 2010 22:06 Operator: RPN
Sample : 72180,871198,1 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 14 09:00:57 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Tue Dec 14 08:47:34 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

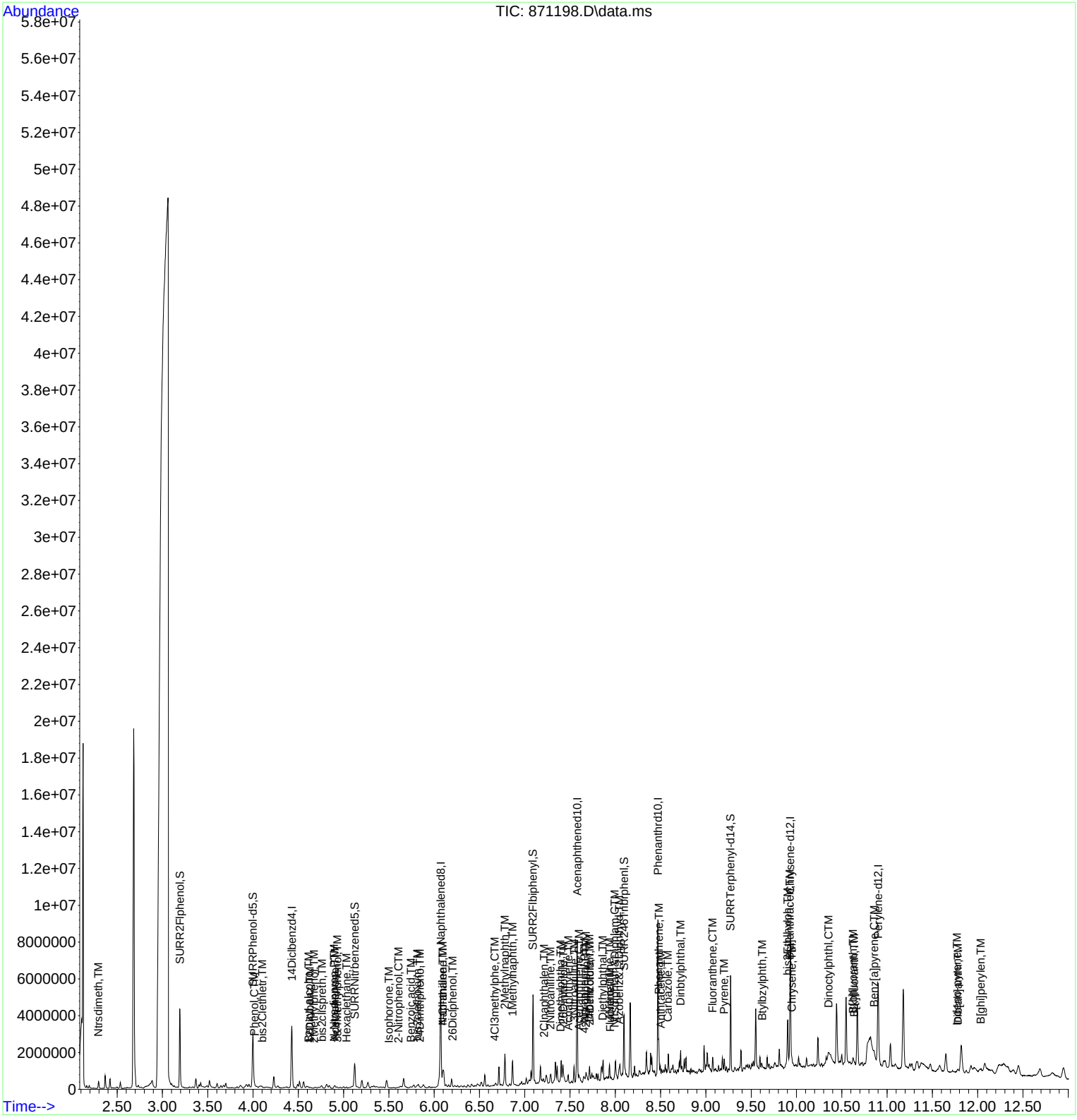
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
60) Diethylphthal	7.860	149	33258	0.3623 ug/mL	96
61) 4Nitroaniline	7.937	138	1714	0.0830 ug/mL#	1
65) Ntrsdiphlam&Diphlam	7.994	169	9735	0.1649 ug/mL	75
66) Azobenz&12Diphlhyd	8.042	182	82551	3.7012 ug/mL#	1
70) Phenanthrene	8.480	178	343531	3.2595 ug/mL	98
71) Anthracene	8.503	178	15784	0.1477 ug/mL	84
72) Carbazole	8.579	167	20130	0.2224 ug/mL	97
73) Dinbtylphthal	8.721	149	179636	1.4698 ug/mL	97
74) Fluoranthene	9.074	202	163761	1.5398 ug/mL	99
76) Benzidine	9.145	184	2269	Below Cal #	36
77) Pyrene	9.202	202	178612	1.6313 ug/mL	97
79) Btylbzylphth	9.622	149	5684	0.1068 ug/mL	68
80) 33Diclbnzidin	9.955	252	2659	Below Cal	93
81) B[a]anthracen	9.926	228	78115	0.7650 ug/mL	87
82) Chrysene	9.949	228	107847	1.1024 ug/mL	93
83) bis2Ethlhxlph	9.903	149	518981	6.7075 ug/mL	99
84) Dinoctylphthl	10.352	149	26040	0.1894 ug/mL	93
86) B[b]fluoranth	10.625	252	125010m	1.3908 ug/mL	
87) B[k]fluoranth	10.637	252	31624m	0.3725 ug/mL	
88) Benz[a]pyrene	10.858	252	59311	0.7230 ug/mL	82
89) Indeno-pyrene	11.773	276	35012	0.4203 ug/mL	99
90) Dib[ah]anthr	11.782	278	9806	0.1451 ug/mL	63
91) B[ghi]perylen	12.035	276	54647	0.7898 ug/mL	99

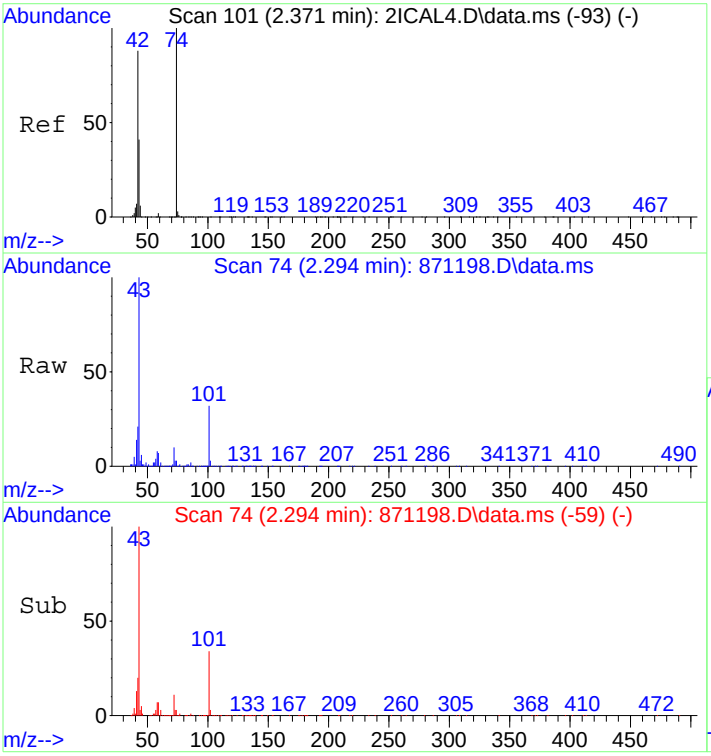
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\871198.D Vial: 11
Acq On : 2 Dec 2010 22:06 Operator: RPN
Sample : 72180,871198,1 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 14 09:00:57 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Tue Dec 14 08:47:34 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

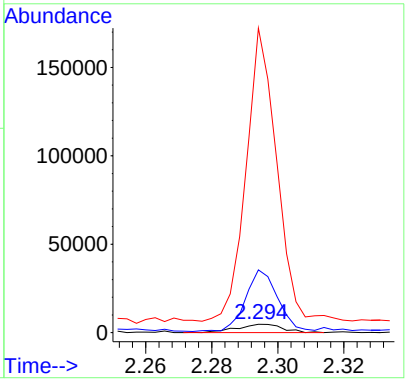


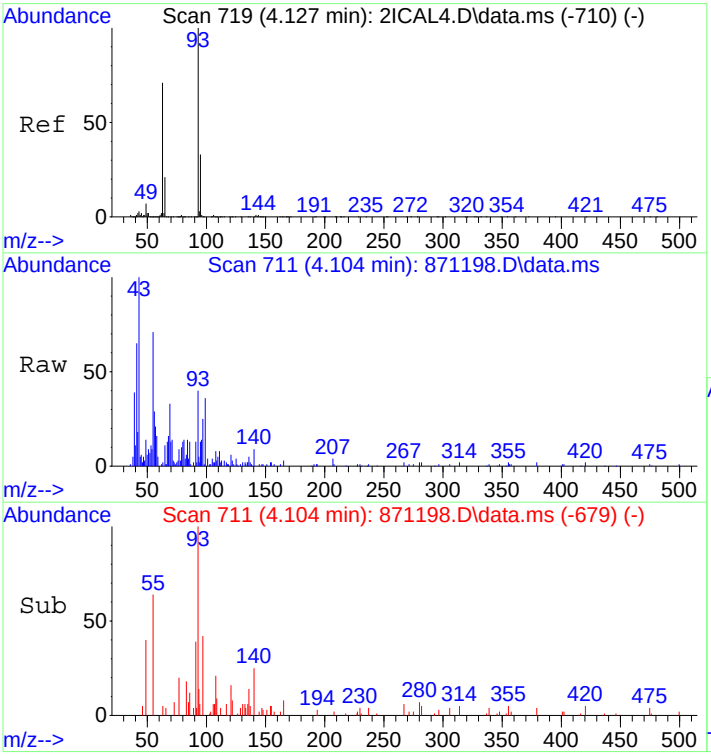


#2
Ntrsdimeth
Concen: 0.23 ug/mL
RT: 2.294 min Scan# 74
Delta R.T. -0.077 min
Lab File: 871198.D
Acq: 2 Dec 10 10:06 pm

Tgt Ion: 74 Resp: 4517

Ion	Ratio	Lower	Upper
74	100		
42	746.0	82.4	142.4#
43	3548.7	17.7	77.7#

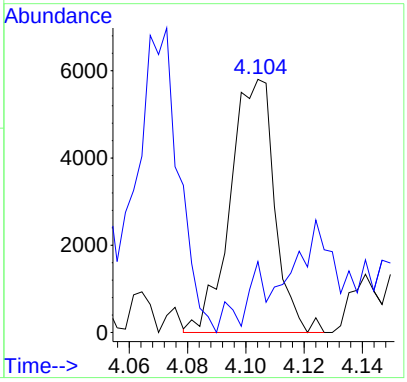


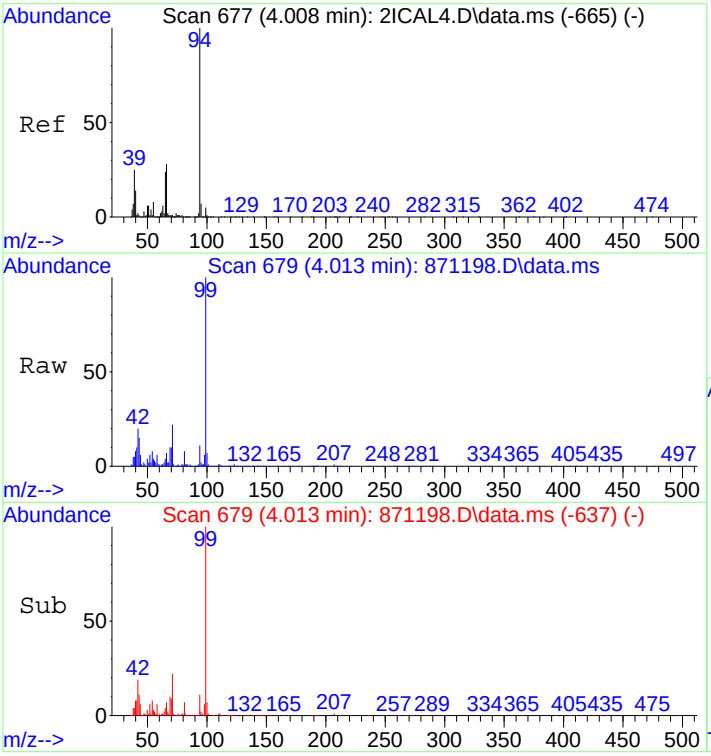


#6
bis2Clethletr
Concen: 0.19 ug/mL
RT: 4.104 min Scan# 711
Delta R.T. -0.023 min
Lab File: 871198.D
Acq: 2 Dec 10 10:06 pm

Tgt Ion: 93 Resp: 6133

Ion	Ratio	Lower	Upper
93	100		
95	0.0	2.4	62.4#

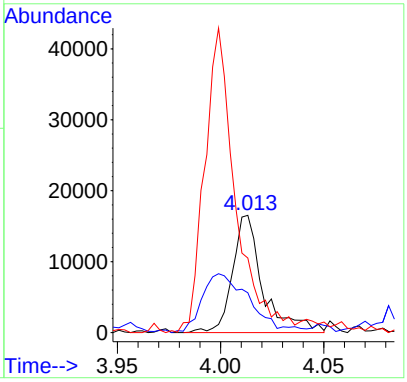


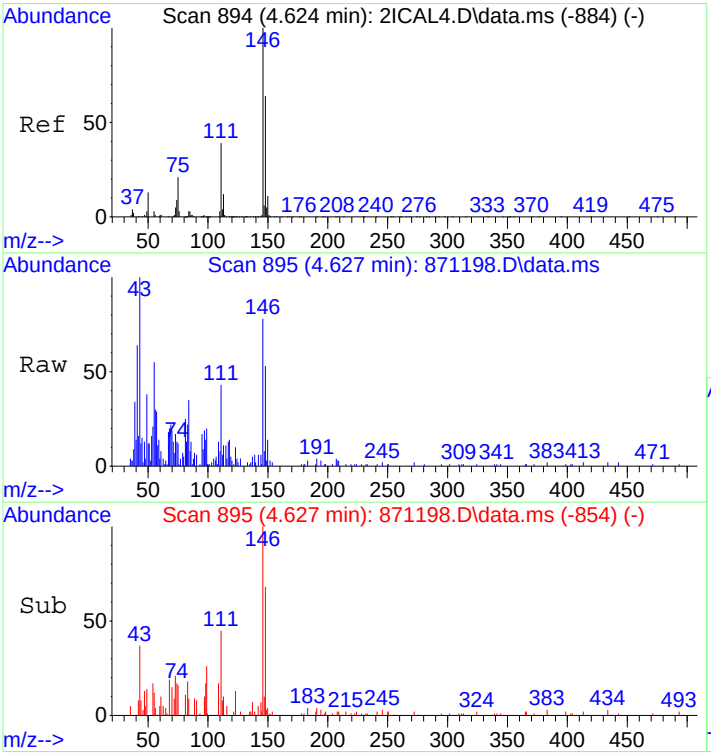


#8
Phenol
Concen: 0.42 ug/mL
RT: 4.013 min Scan# 679
Delta R.T. 0.006 min
Lab File: 871198.D
Acq: 2 Dec 10 10:06 pm

Tgt Ion: 94 Resp: 16985

Ion	Ratio	Lower	Upper
94	100		
65	32.7	1.0	61.0
66	55.1	8.1	68.1

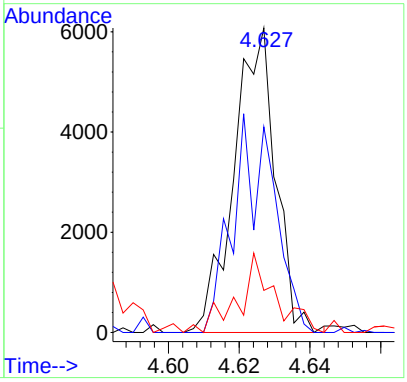


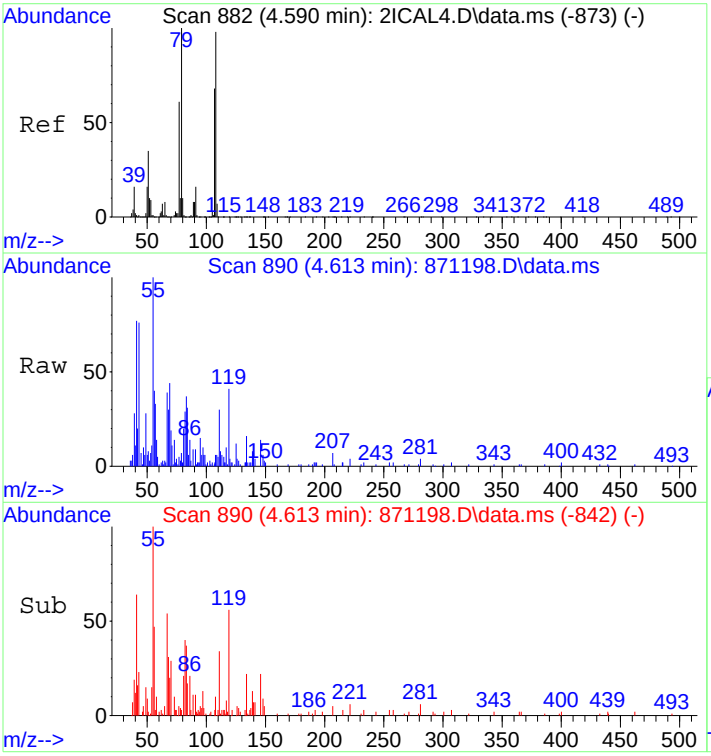


#12
12Diclbenz
Concen: 0.12 ug/mL
RT: 4.627 min Scan# 895
Delta R.T. 0.003 min
Lab File: 871198.D
Acq: 2 Dec 10 10:06 pm

Tgt Ion:146 Resp: 4982

Ion	Ratio	Lower	Upper
146	100		
148	70.8	29.2	89.2
113	13.8	0.0	42.9

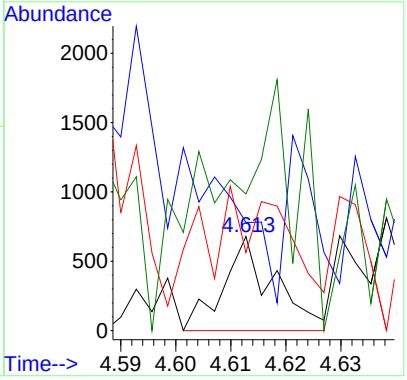


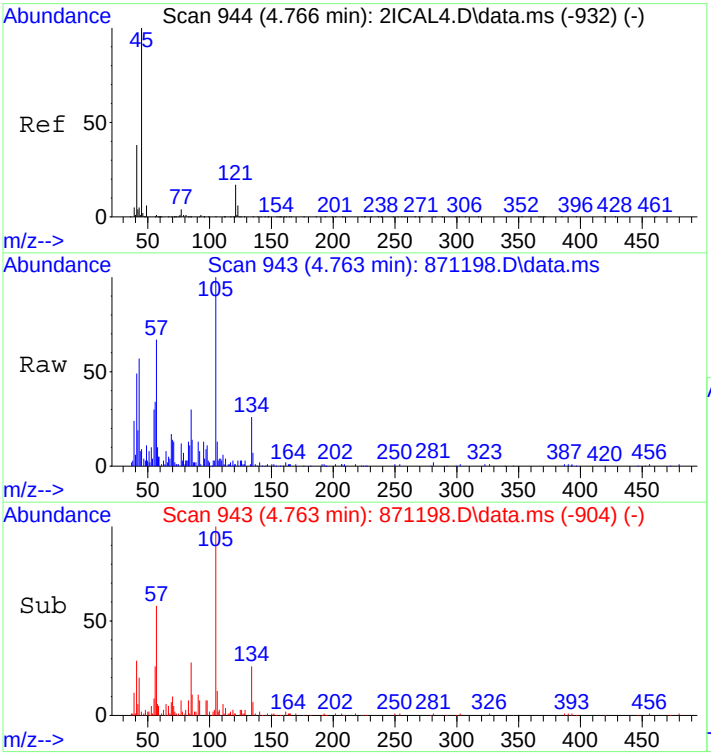


#13
Benzyl alcoho
Concen: 0.92 ug/mL
RT: 4.613 min Scan# 890
Delta R.T. 0.023 min
Lab File: 871198.D
Acq: 2 Dec 10 10:06 pm

Tgt Ion:108 Resp: 437

Ion	Ratio	Lower	Upper
108	100		
79	0.0	104.2	164.2#
77	42.6	55.1	115.1#
91	145.3	0.0	50.3#

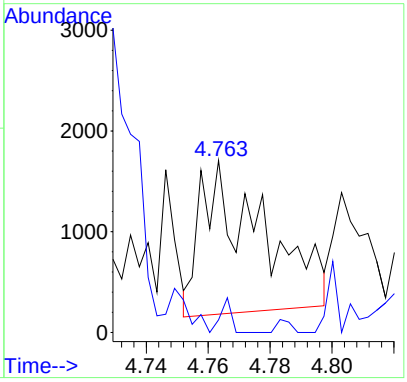


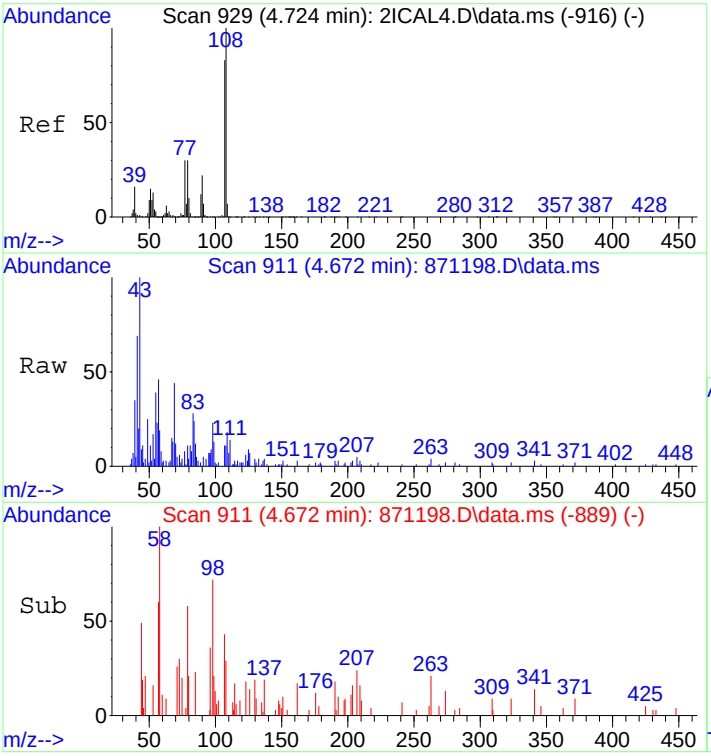


#14
bis2clispreth
Concen: 0.03 ug/mL
RT: 4.763 min Scan# 943
Delta R.T. -0.003 min
Lab File: 871198.D
Acq: 2 Dec 10 10:06 pm

Tgt Ion: 45 Resp: 2087

Ion	Ratio	Lower	Upper
45	100		
121	0.0	0.0	45.3

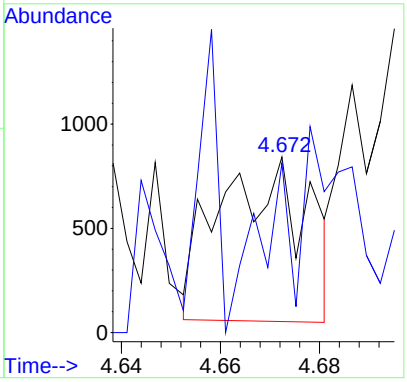


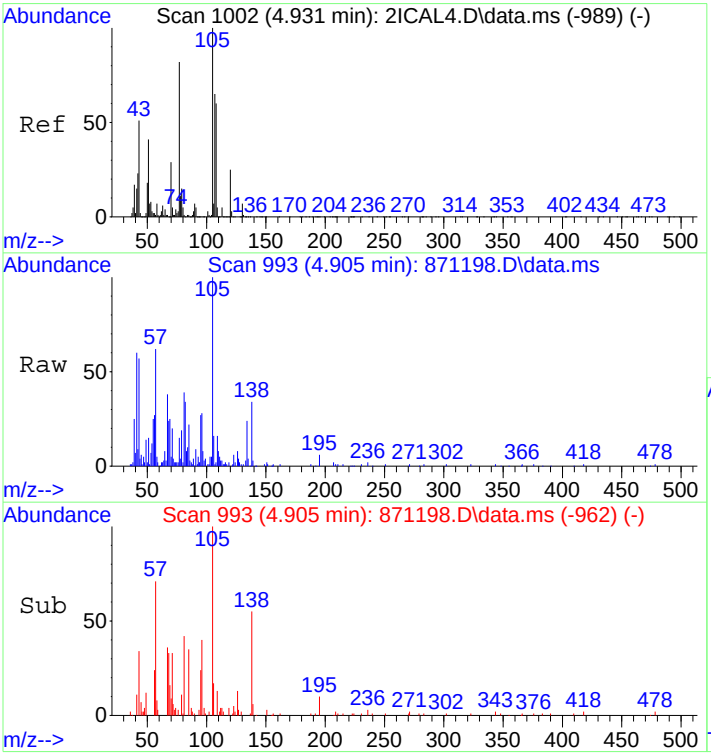


#15
2Methylphenol
Concen: 0.03 ug/mL
RT: 4.672 min Scan# 911
Delta R.T. -0.051 min
Lab File: 871198.D
Acq: 2 Dec 10 10:06 pm

Tgt Ion:108 Resp: 958

Ion	Ratio	Lower	Upper
108	100		
107	79.5	57.3	117.3

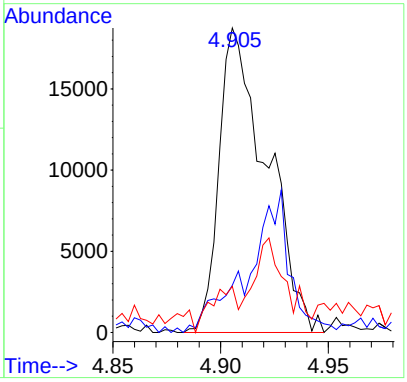


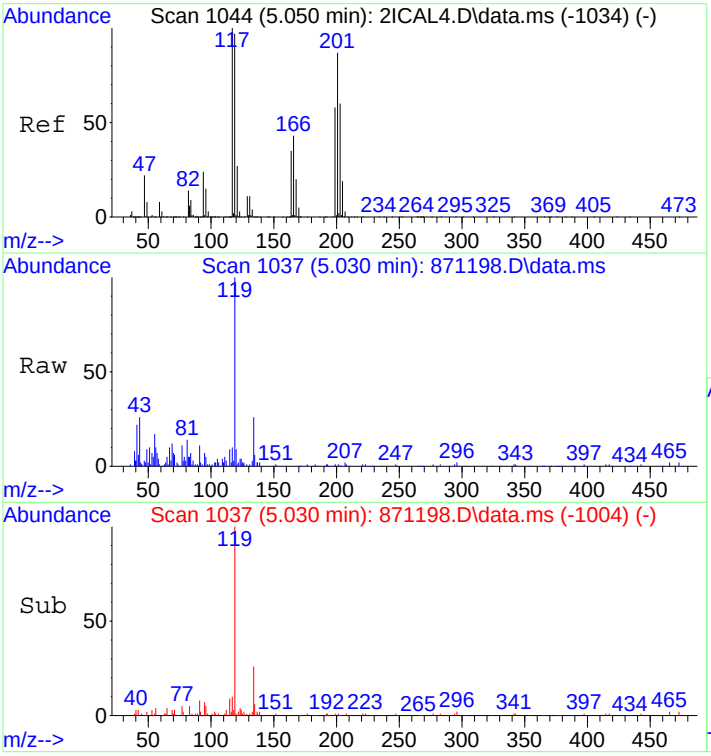


#17
Acetophenone
Concen: 0.62 ug/mL
RT: 4.905 min Scan# 993
Delta R.T. -0.026 min
Lab File: 871198.D
Acq: 2 Dec 10 10:06 pm

Tgt Ion:105 Resp: 28819

Ion	Ratio	Lower	Upper
105	100		
77	11.5	72.2	132.2#
51	8.2	18.8	78.8#

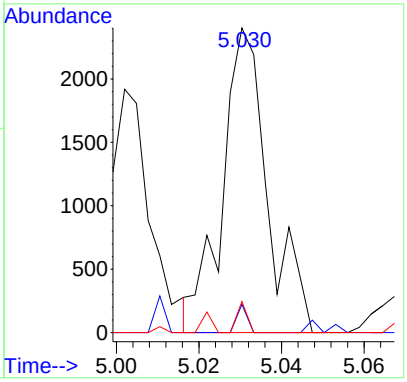


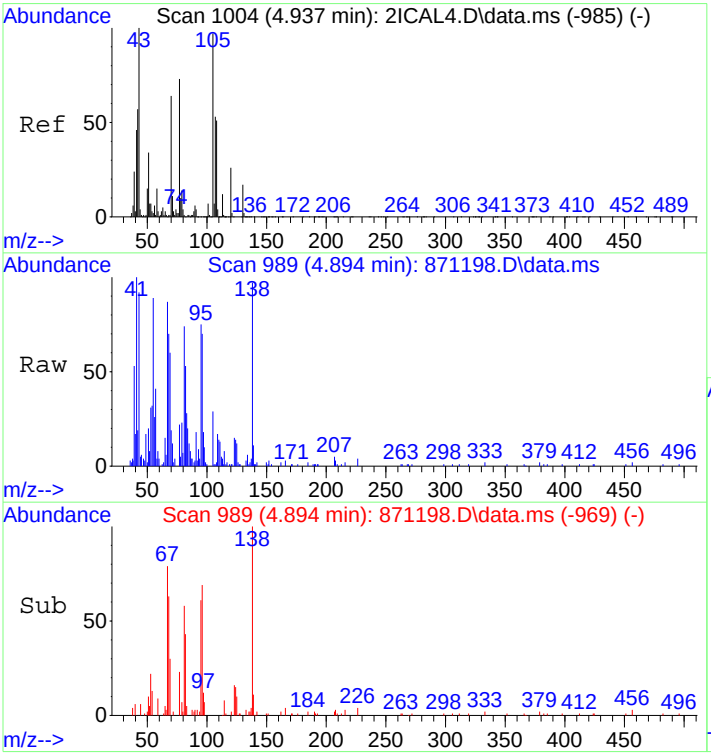


#18
Hexaclethane
Concen: 0.13 ug/mL
RT: 5.030 min Scan# 1037
Delta R.T. -0.020 min
Lab File: 871198.D
Acq: 2 Dec 10 10:06 pm

Tgt Ion:117 Resp: 1833

Ion	Ratio	Lower	Upper
117	100		
201	9.2	64.1	124.1#
199	10.2	28.3	88.3#

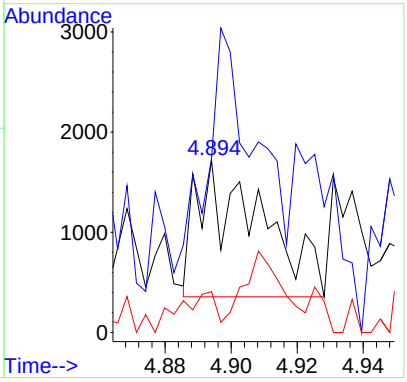


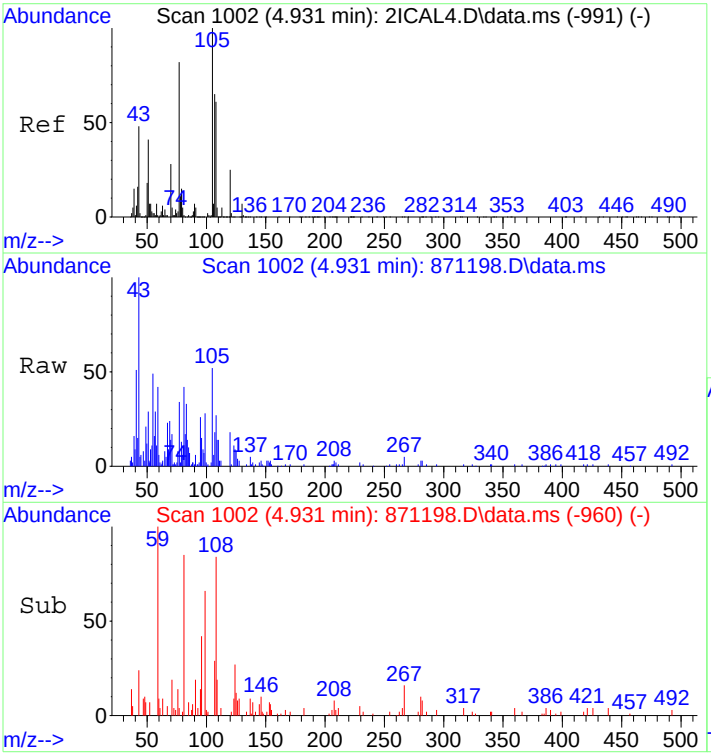


#19
N-Ntrsdinprop
Concen: 0.09 ug/mL
RT: 4.894 min Scan# 989
Delta R.T. -0.043 min
Lab File: 871198.D
Acq: 2 Dec 10 10:06 pm

Tgt Ion: 70 Resp: 1840

Ion	Ratio	Lower	Upper
70	100		
42	62.9	54.3	114.3
113	12.4	0.0	43.5

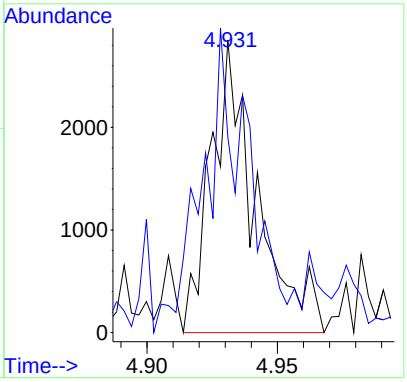


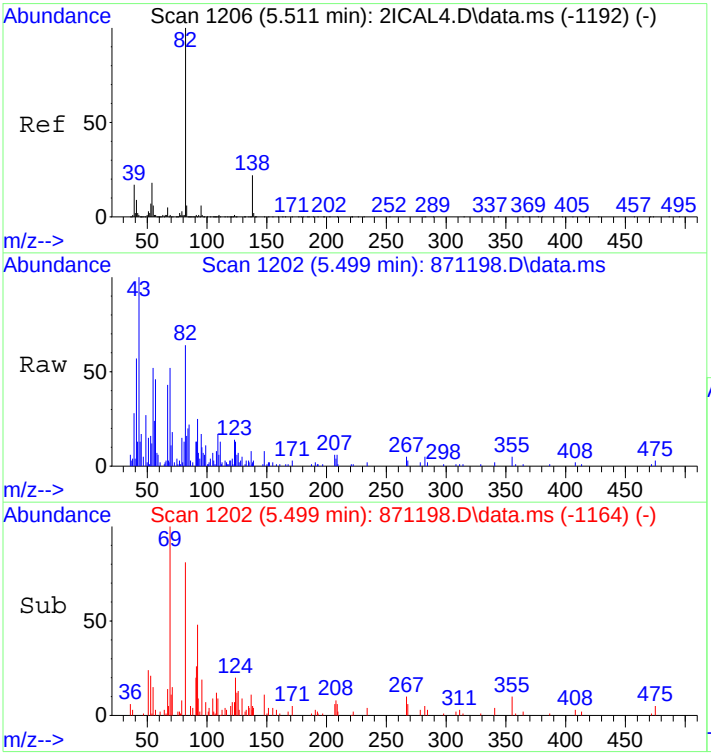


#20
3&4Methylphenol
Concen: 0.11 ug/mL
RT: 4.931 min Scan# 1002
Delta R.T. -0.000 min
Lab File: 871198.D
Acq: 2 Dec 10 10:06 pm

Tgt Ion:108 Resp: 3415

Ion	Ratio	Lower	Upper
108	100		
107	53.3	74.6	134.6#

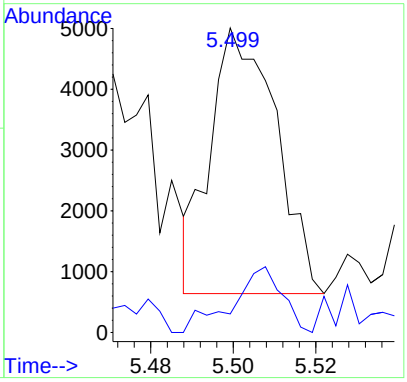


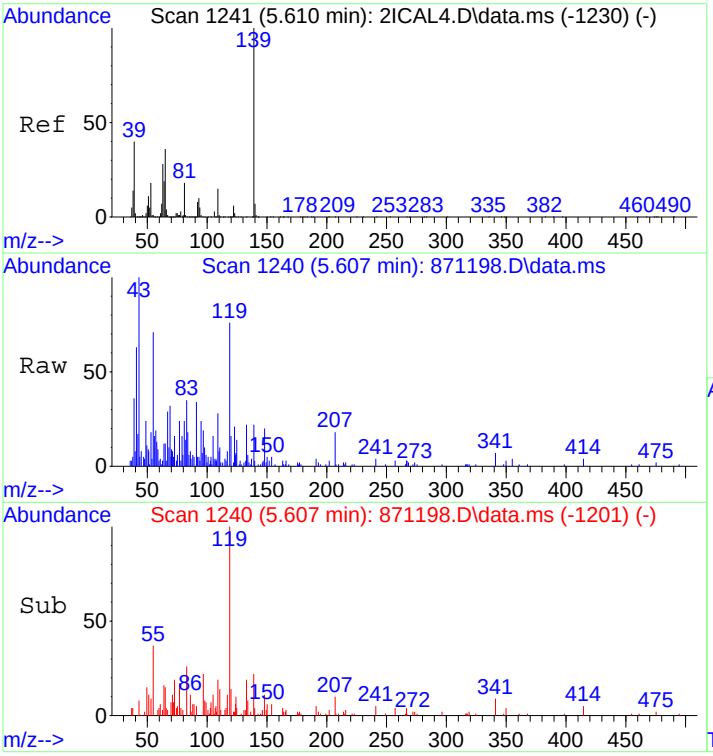


#24
Isophorone
Concen: 0.07 ug/mL
RT: 5.499 min Scan# 1202
Delta R.T. -0.012 min
Lab File: 871198.D
Acq: 2 Dec 10 10:06 pm

Tgt Ion: 82 Resp: 4830

Ion	Ratio	Lower	Upper
82	100		
138	7.0	0.0	48.8

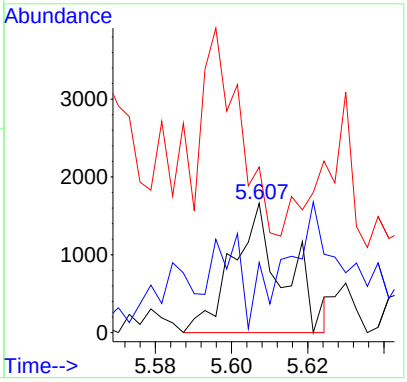


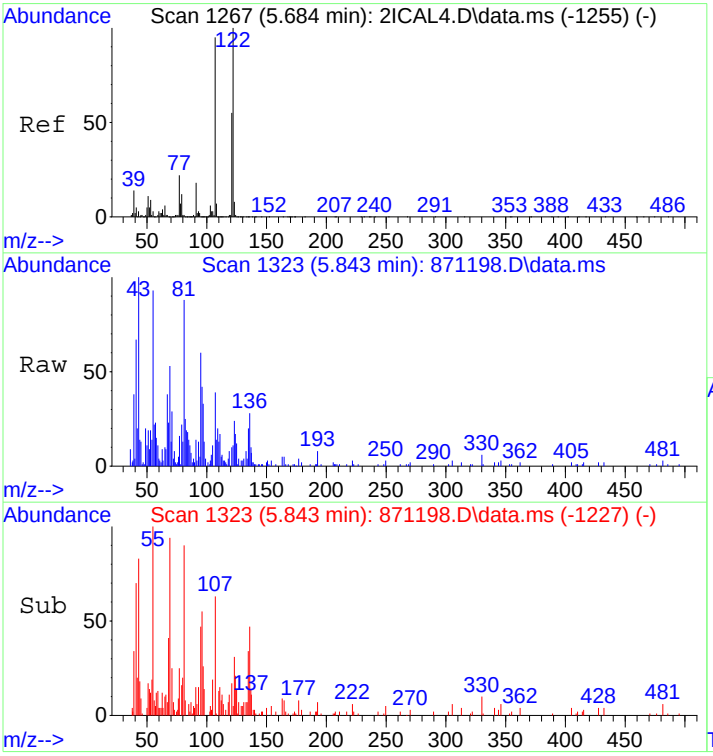


#25
2-Nitrophenol
Concen: 0.07 ug/mL
RT: 5.607 min Scan# 1240
Delta R.T. -0.003 min
Lab File: 871198.D
Acq: 2 Dec 10 10:06 pm

Tgt Ion:139 Resp: 1539

Ion	Ratio	Lower	Upper
139	100		
65	7.1	20.9	80.9#
109	0.0	0.0	57.4

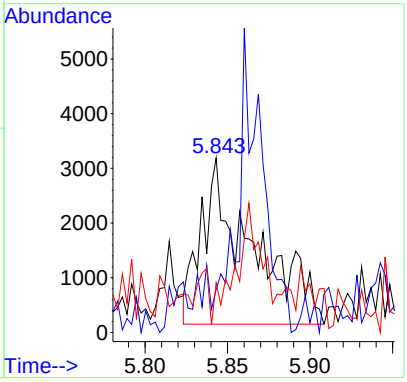


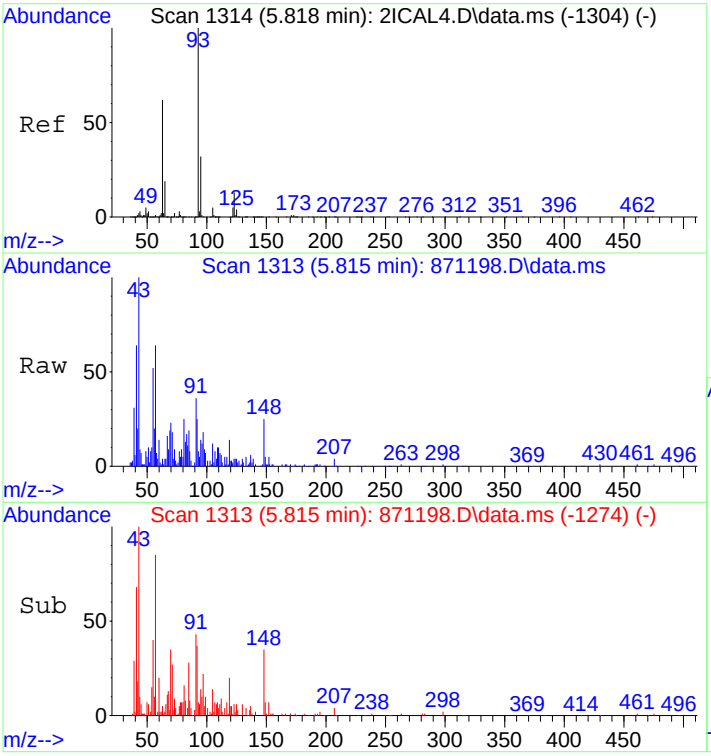


#26
24Dimthpheno
Concen: 0.19 ug/mL
RT: 5.843 min Scan# 1323
Delta R.T. 0.159 min
Lab File: 871198.D
Acq: 2 Dec 10 10:06 pm

Tgt Ion:107 Resp: 6613

Ion	Ratio	Lower	Upper
107	100		
121	2.6	22.2	82.2#
122	6.8	56.3	116.3#

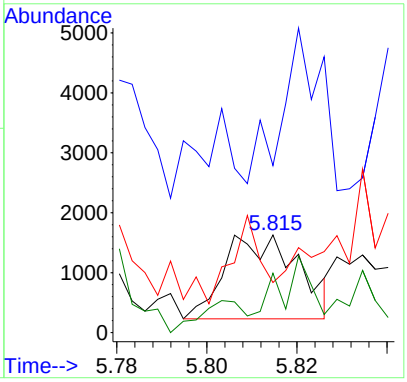


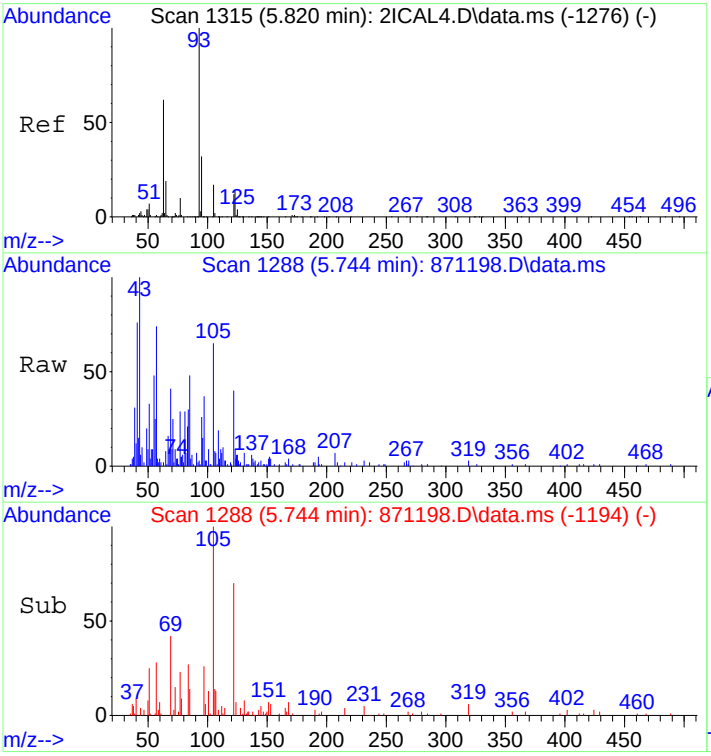


#27
bis2clethoxym
Concen: 0.03 ug/mL
RT: 5.815 min Scan# 1313
Delta R.T. -0.003 min
Lab File: 871198.D
Acq: 2 Dec 10 10:06 pm

Tgt Ion: 93 Resp: 1583

Ion	Ratio	Lower	Upper
93	100		
95	0.0	1.9	61.9#
123	25.2	0.0	42.6
63	71.5	46.9	106.9

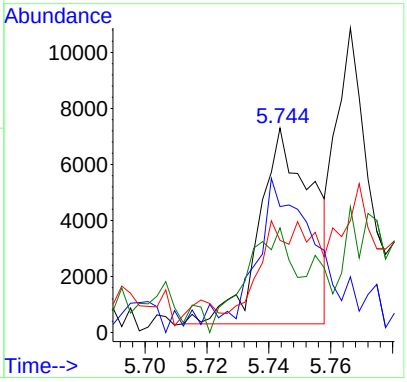


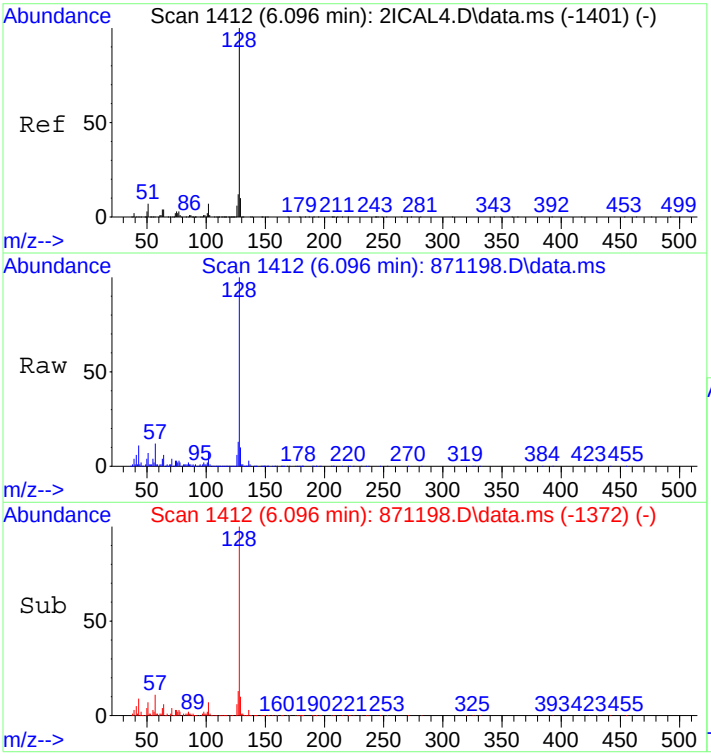


#30
Benzoic acid
Concen: 3.22 ug/mL
RT: 5.744 min Scan# 1288
Delta R.T. -0.006 min
Lab File: 871198.D
Acq: 2 Dec 10 10:06 pm

Tgt Ion:105 Resp: 8210

Ion	Ratio	Lower	Upper
105	100		
122	61.0	54.1	114.1
77	46.7	45.9	105.9
51	48.5	17.6	77.6

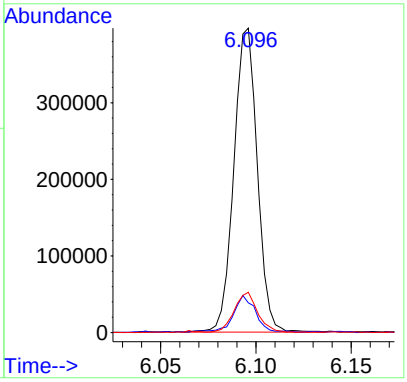


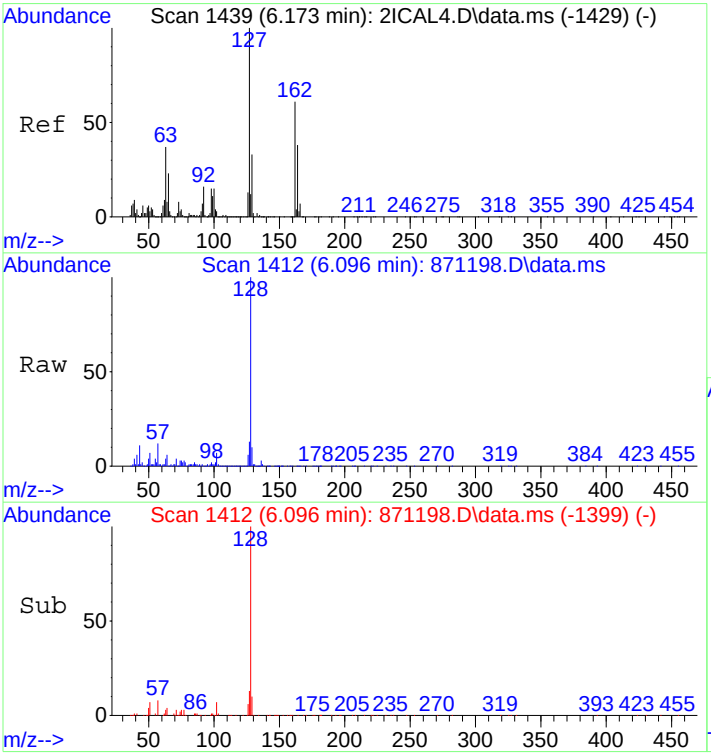


#31
Naphthalene
Concen: 2.66 ug/mL
RT: 6.096 min Scan# 1412
Delta R.T. -0.000 min
Lab File: 871198.D
Acq: 2 Dec 10 10:06 pm

Tgt Ion:128 Resp: 339996

Ion	Ratio	Lower	Upper
128	100		
129	9.7	0.0	40.3
127	13.2	0.0	41.9

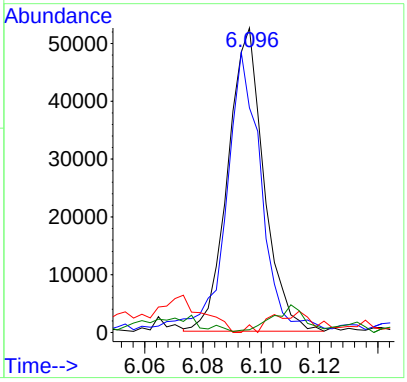


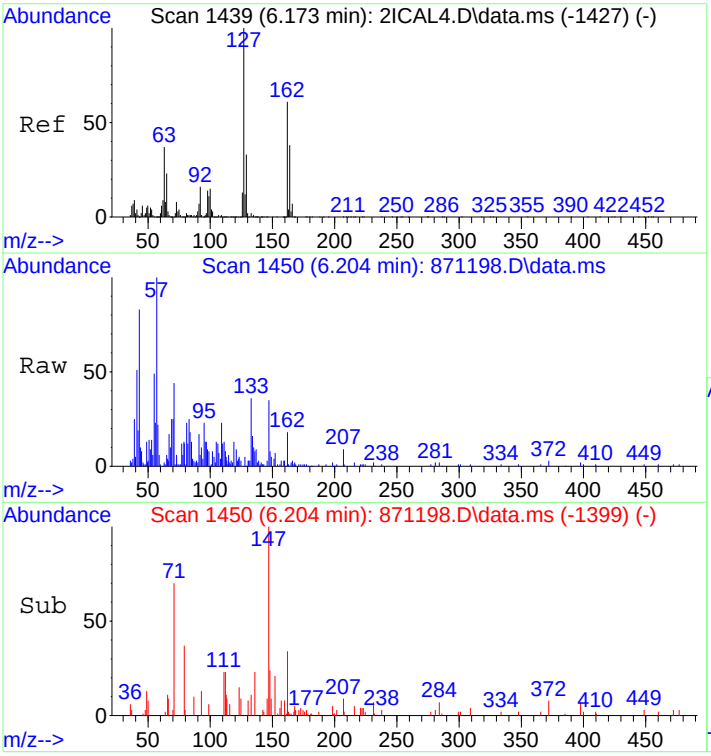


#32
4-Cl-aniline
Concen: 0.94 ug/mL
RT: 6.096 min Scan# 1412
Delta R.T. -0.077 min
Lab File: 871198.D
Acq: 2 Dec 10 10:06 pm

Tgt Ion:127 Resp: 44941

Ion	Ratio	Lower	Upper
127	100		
129	72.7	1.8	61.8#
65	0.0	1.6	61.6#
92	0.0	0.0	48.2

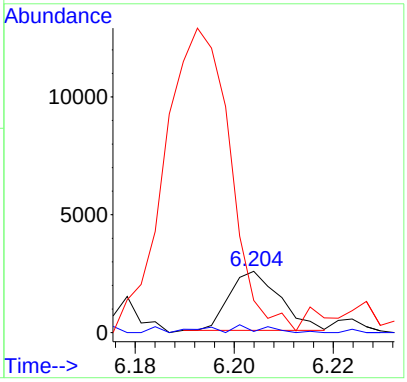


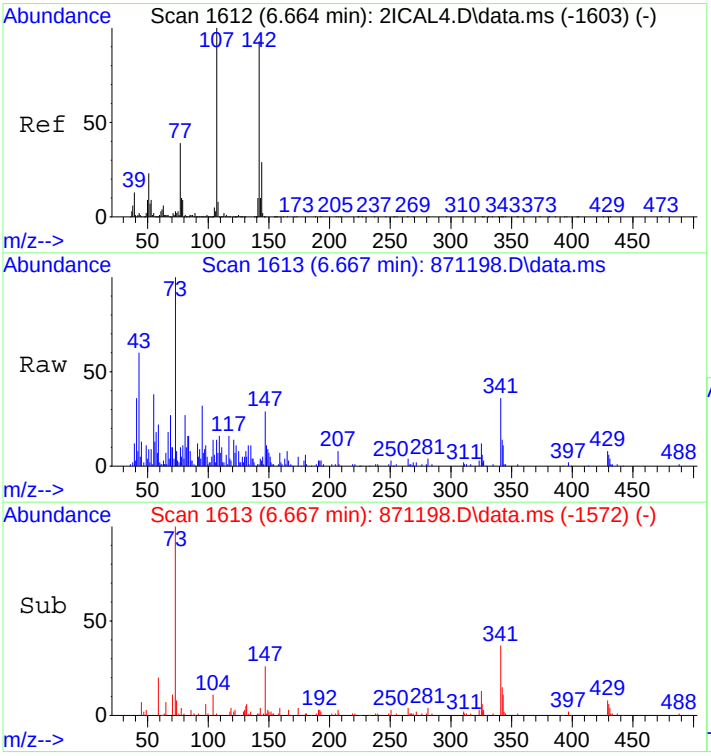


#33
26Diclphenol
Concen: 0.06 ug/mL
RT: 6.204 min Scan# 1450
Delta R.T. 0.031 min
Lab File: 871198.D
Acq: 2 Dec 10 10:06 pm

Tgt Ion:162 Resp: 1776

Ion	Ratio	Lower	Upper
162	100		
164	0.0	36.5	96.5#
98	29.5	0.0	57.1

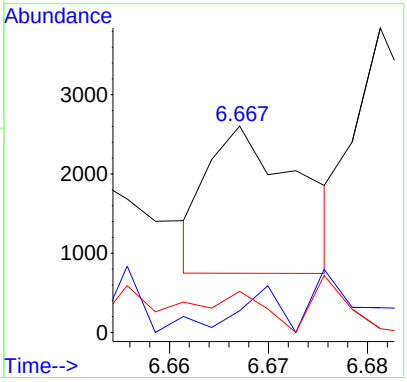


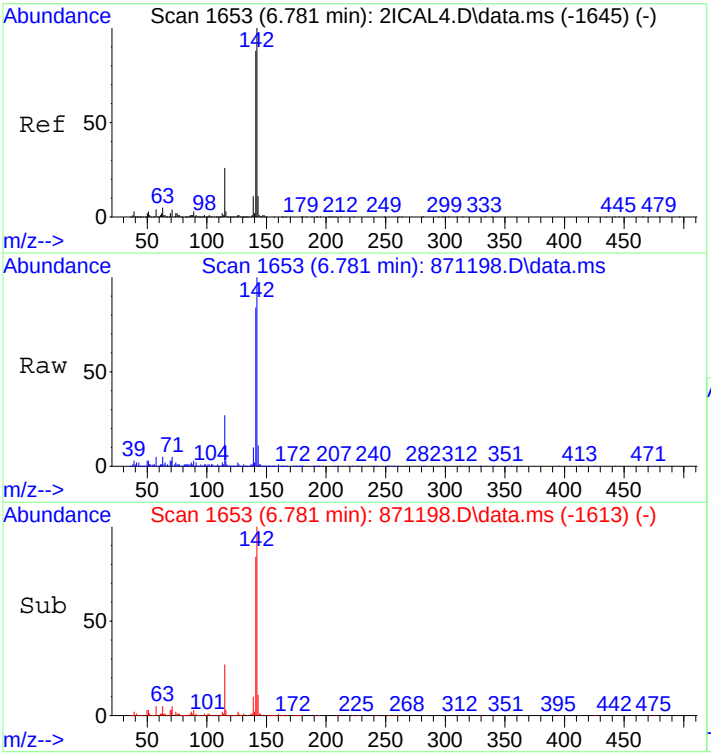


#36
4Cl3methylphe
Concen: 0.04 ug/mL
RT: 6.667 min Scan# 1613
Delta R.T. 0.003 min
Lab File: 871198.D
Acq: 2 Dec 10 10:06 pm

Tgt Ion:107 Resp: 1184

Ion	Ratio	Lower	Upper
107	100		
142	6.1	50.0	110.0#
144	11.4	0.0	56.8

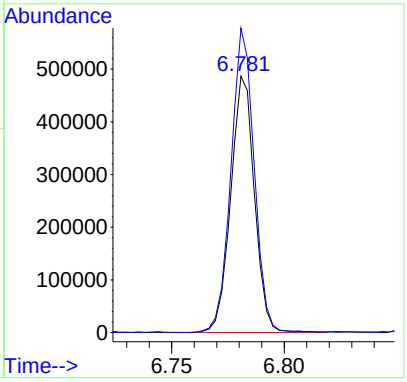


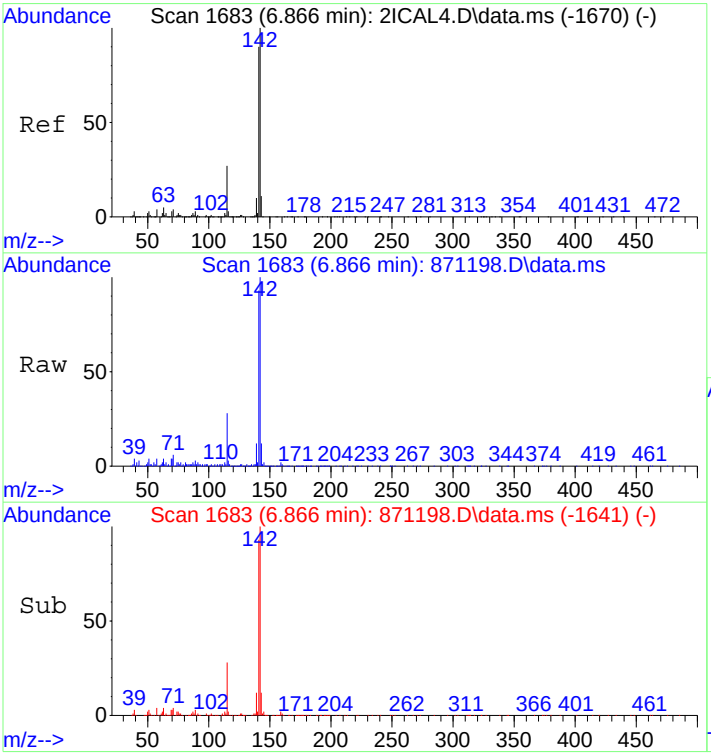


#37
2Methylnaphth
Concen: 4.98 ug/mL
RT: 6.781 min Scan# 1653
Delta R.T. -0.000 min
Lab File: 871198.D
Acq: 2 Dec 10 10:06 pm

Tgt Ion:141 Resp: 355418

Ion	Ratio	Lower	Upper
141	100		
142	118.8	83.7	143.7

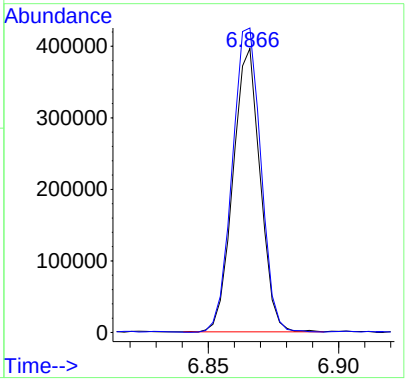


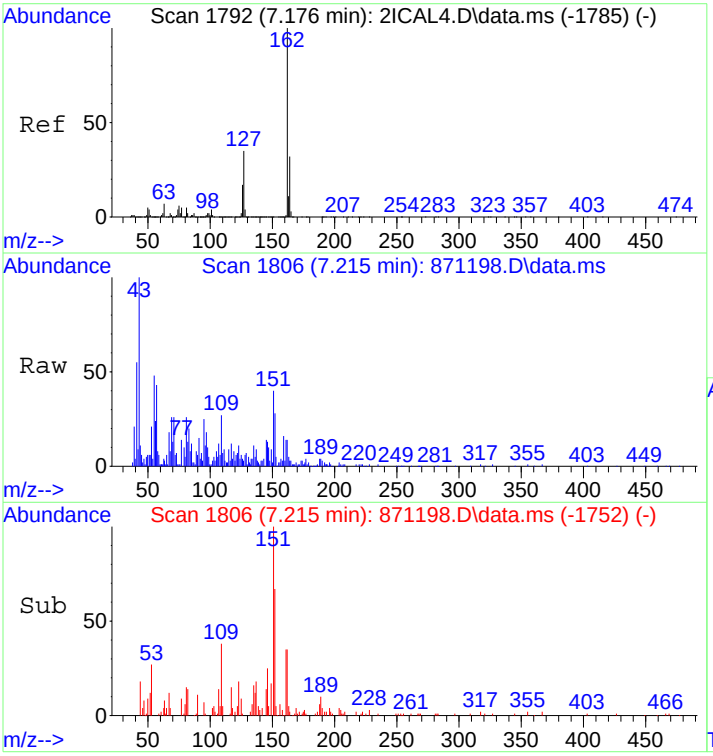


#38
1Methylnaphth
Concen: 3.88 ug/mL
RT: 6.866 min Scan# 1683
Delta R.T. -0.000 min
Lab File: 871198.D
Acq: 2 Dec 10 10:06 pm

Tgt Ion:141 Resp: 287356

Ion	Ratio	Lower	Upper
141	100		
142	107.3	79.5	139.5

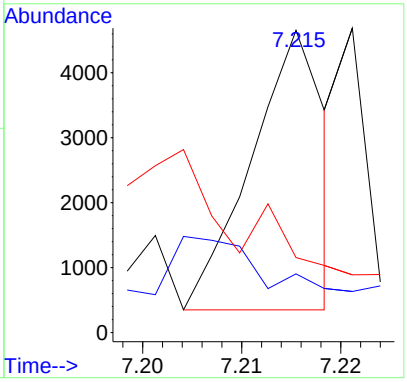


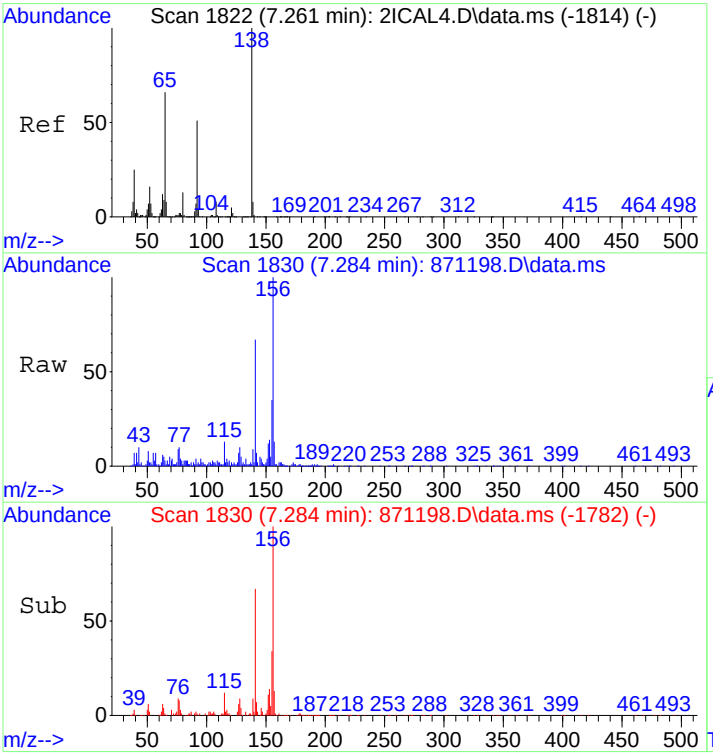


#45
2Clnaphthalen
Concen: 0.03 ug/mL
RT: 7.215 min Scan# 1806
Delta R.T. 0.040 min
Lab File: 871198.D
Acq: 2 Dec 10 10:06 pm

Tgt Ion:162 Resp: 2230

Ion	Ratio	Lower	Upper
162	100		
164	5.2	2.5	62.5
127	2.8	7.1	67.1#

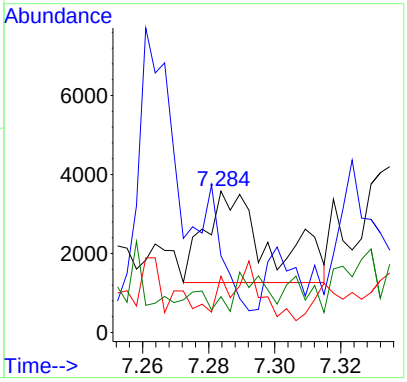


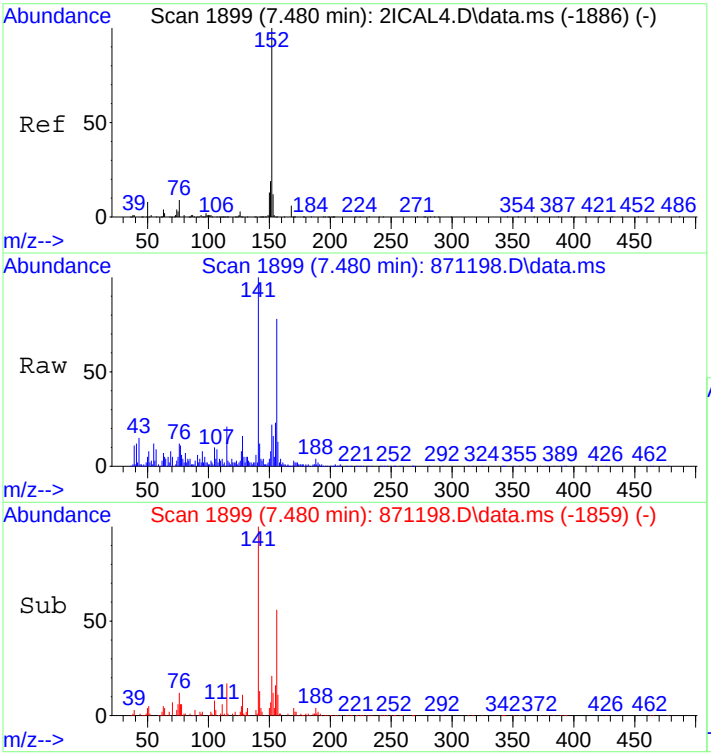


#46
2Nitroaniline
Concen: 0.17 ug/mL
RT: 7.284 min Scan# 1830
Delta R.T. 0.023 min
Lab File: 871198.D
Acq: 2 Dec 10 10:06 pm

Tgt Ion: 65 Resp: 3118

Ion	Ratio	Lower	Upper
65	100		
92	42.1	32.1	92.1
138	16.1	73.8	133.8#
80	17.3	0.0	55.1

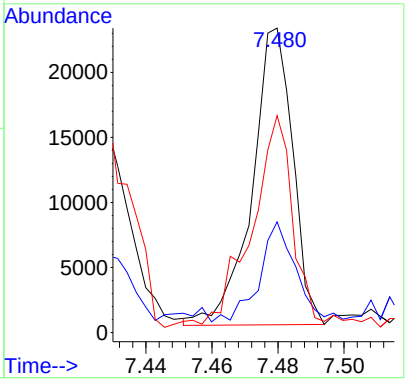


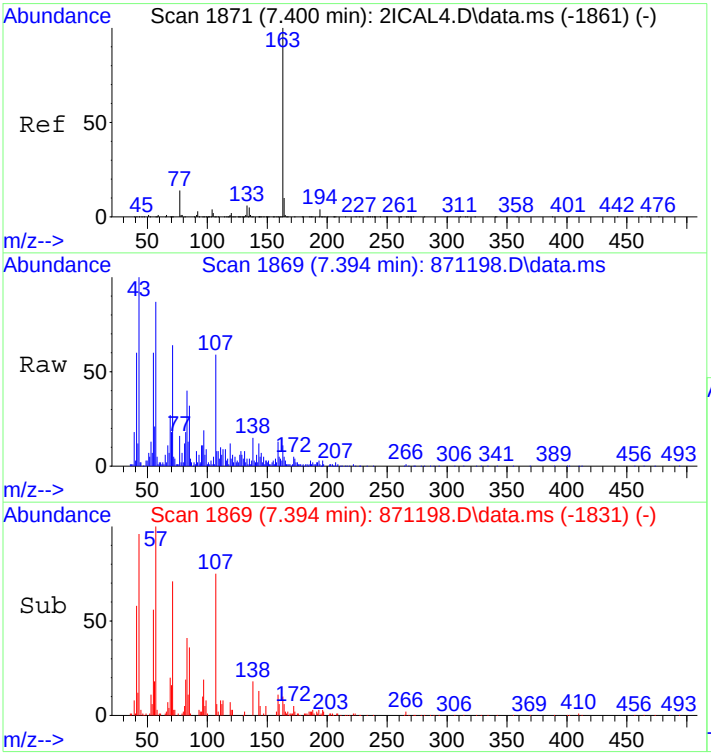


#47
Acnaphthylene
Concen: 0.15 ug/mL
RT: 7.480 min Scan# 1899
Delta R.T. -0.000 min
Lab File: 871198.D
Acq: 2 Dec 10 10:06 pm

Tgt Ion:152 Resp: 19542

Ion	Ratio	Lower	Upper
152	100		
151	32.0	0.0	49.5
153	69.4	0.0	43.0#

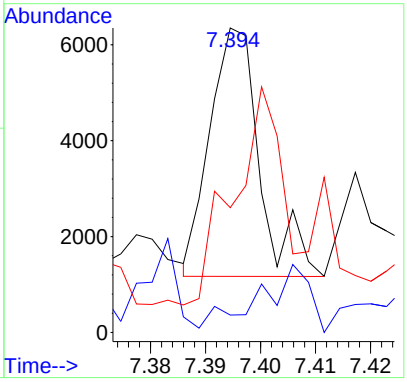


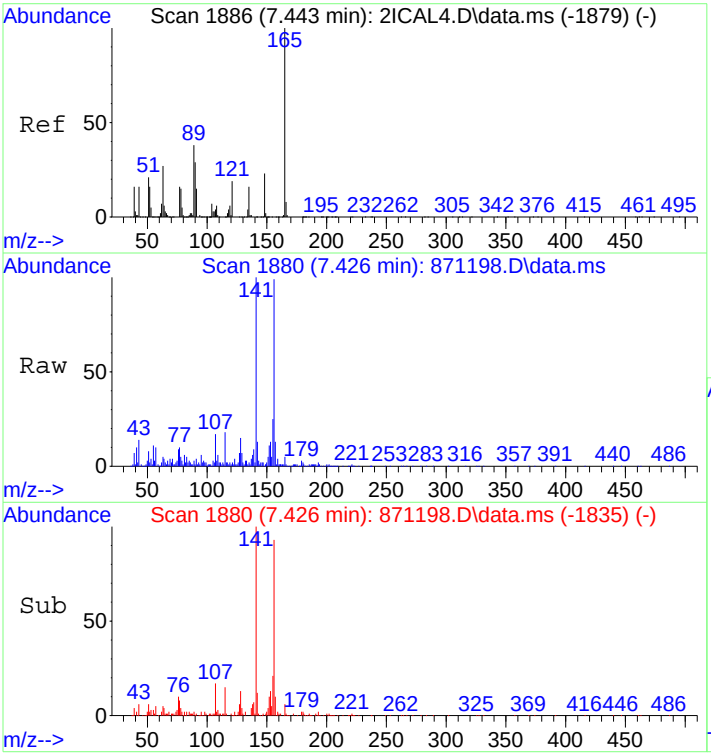


#48
Dimethylphtha
Concen: 0.04 ug/mL
RT: 7.394 min Scan# 1869
Delta R.T. -0.006 min
Lab File: 871198.D
Acq: 2 Dec 10 10:06 pm

Tgt Ion:163 Resp: 3269

Ion	Ratio	Lower	Upper
163	100		
194	7.0	0.0	34.0
164	39.2	0.0	40.3

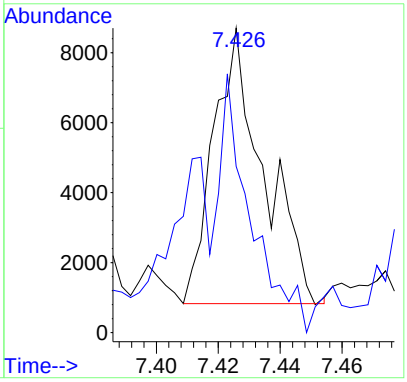


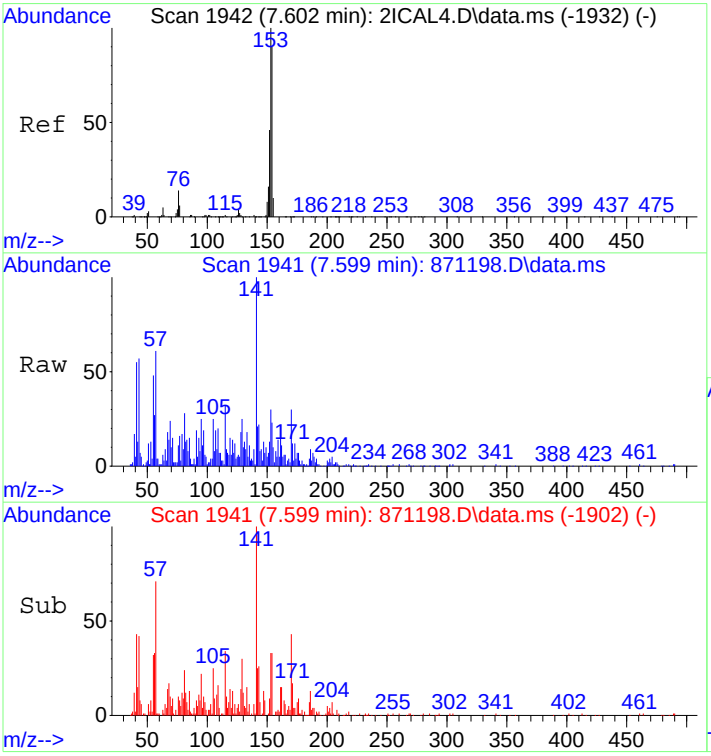


#49
26Dinitrotolu
Concen: 0.45 ug/mL
RT: 7.426 min Scan# 1880
Delta R.T. -0.017 min
Lab File: 871198.D
Acq: 2 Dec 10 10:06 pm

Tgt Ion:165 Resp: 8884

Ion	Ratio	Lower	Upper
165	100		
89	43.0	20.8	80.8

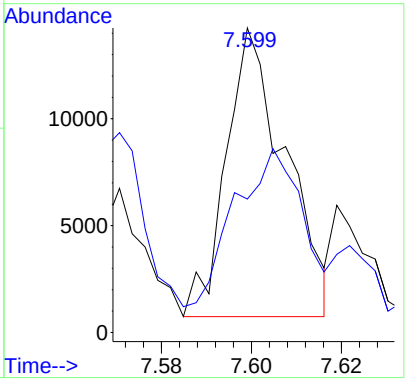


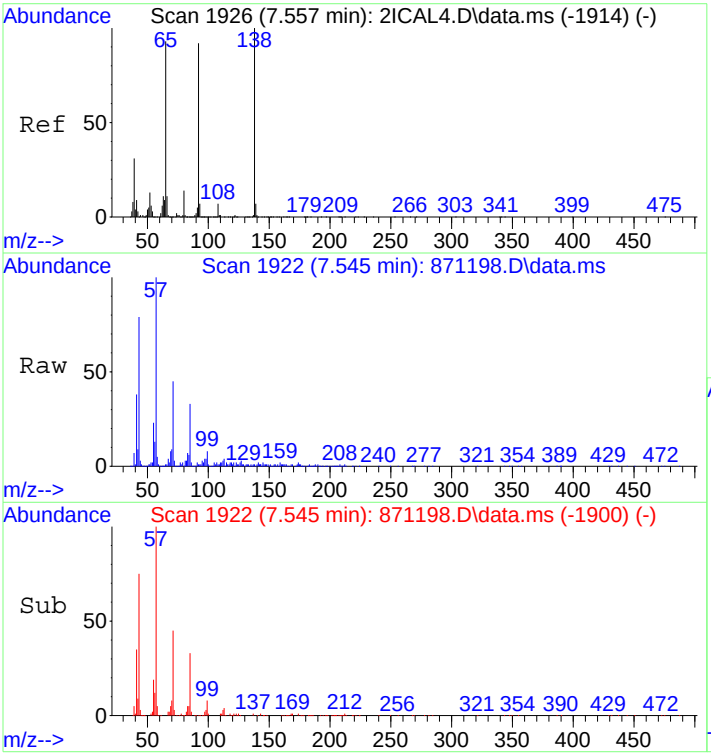


#50
Acenaphthene
Concen: 0.15 ug/mL
RT: 7.599 min Scan# 1941
Delta R.T. -0.003 min
Lab File: 871198.D
Acq: 2 Dec 10 10:06 pm

Tgt Ion:153 Resp: 12392

Ion	Ratio	Lower	Upper
153	100		
152	37.3	15.5	75.5

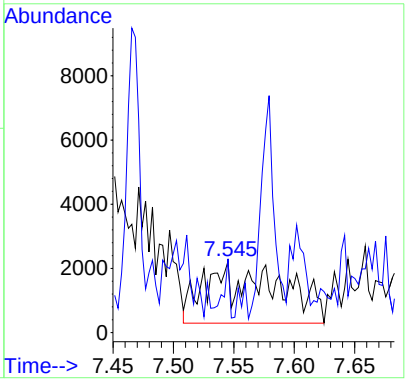


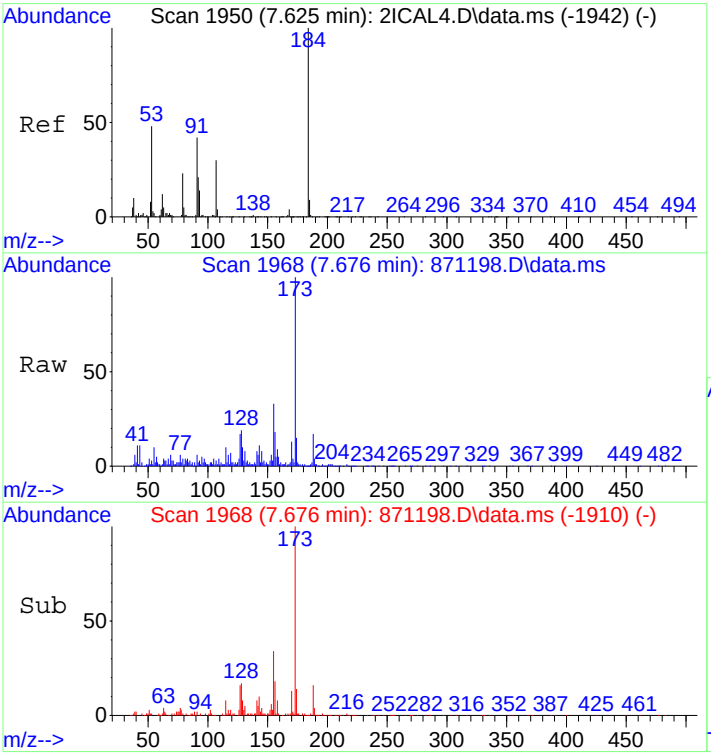


#51
3Nitroaniline
Concen: 0.37 ug/mL
RT: 7.545 min Scan# 1922
Delta R.T. -0.012 min
Lab File: 871198.D
Acq: 2 Dec 10 10:06 pm

Tgt Ion:138 Resp: 7812

Ion	Ratio	Lower	Upper
138	100		
92	53.0	74.6	134.6#

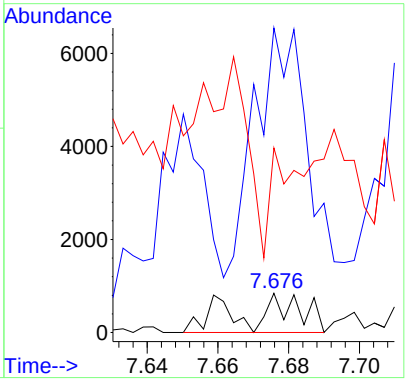


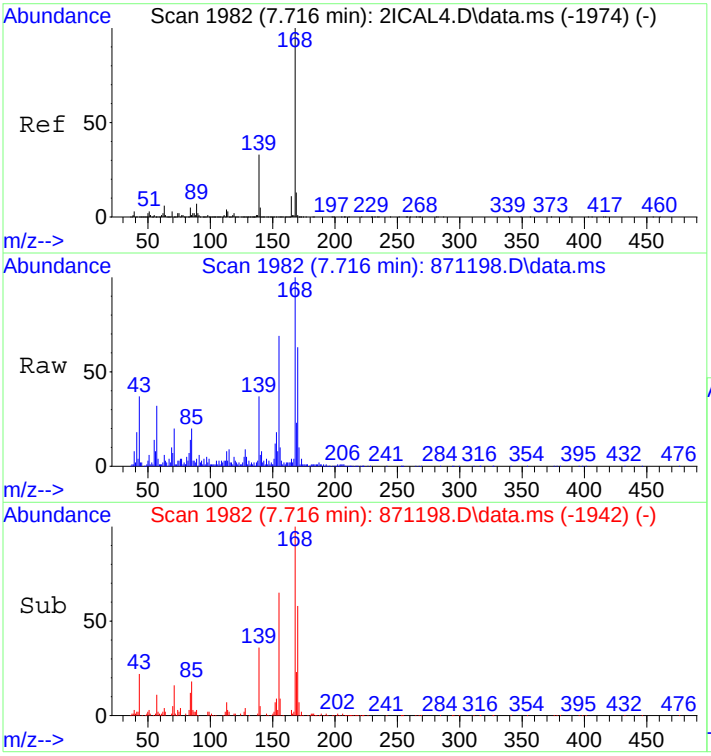


#52
24Dinitphenol
Concen: 2.45 ug/mL
RT: 7.676 min Scan# 1968
Delta R.T. 0.051 min
Lab File: 871198.D
Acq: 2 Dec 10 10:06 pm

Tgt Ion:184 Resp: 955

Ion	Ratio	Lower	Upper
184	100		
63	777.6	44.6	104.6#
107	471.3	13.0	73.0#

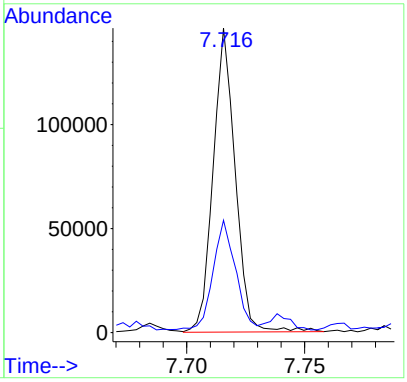


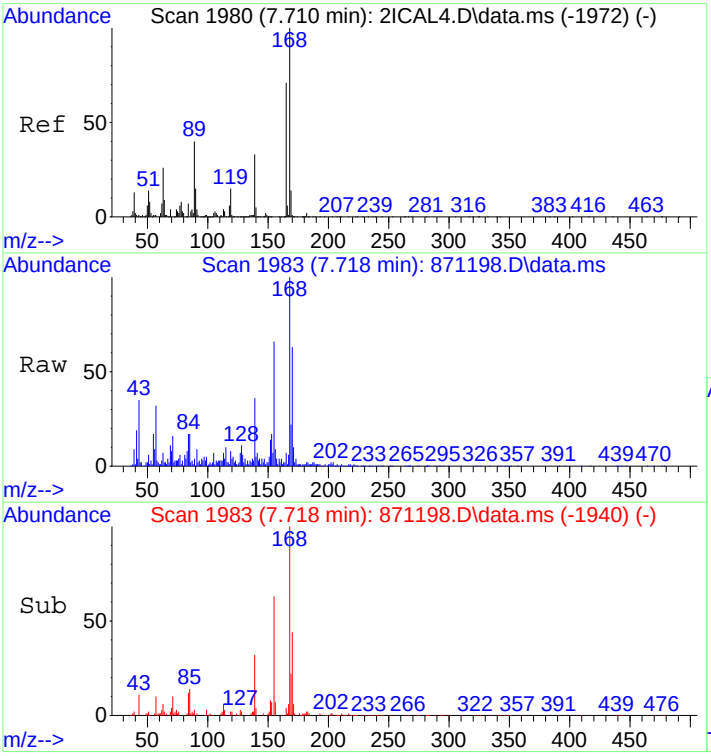


#53
Dibenzofuran
Concen: 0.88 ug/mL
RT: 7.716 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 871198.D
Acq: 2 Dec 10 10:06 pm

Tgt Ion:168 Resp: 95150

Ion	Ratio	Lower	Upper
168	100		
139	35.5	7.1	67.1

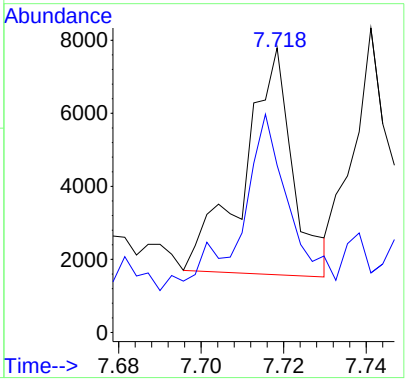


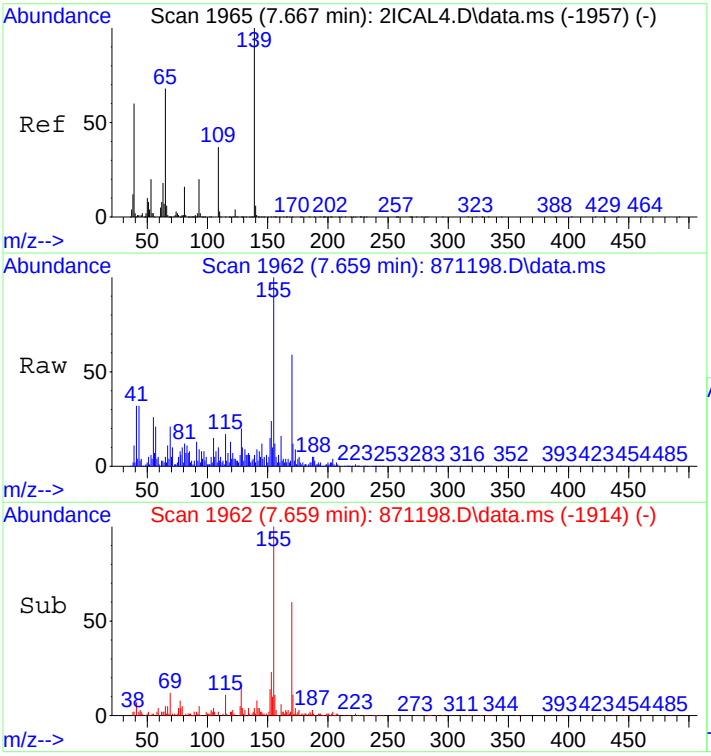


#54
24Dinitrotolu
Concen: 0.21 ug/mL
RT: 7.718 min Scan# 1983
Delta R.T. 0.008 min
Lab File: 871198.D
Acq: 2 Dec 10 10:06 pm

Tgt Ion:165 Resp: 5075

Ion	Ratio	Lower	Upper
165	100		
89	52.1	41.4	101.4

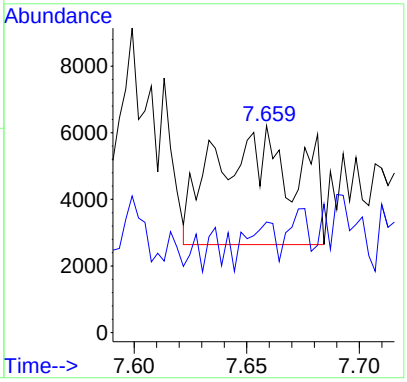


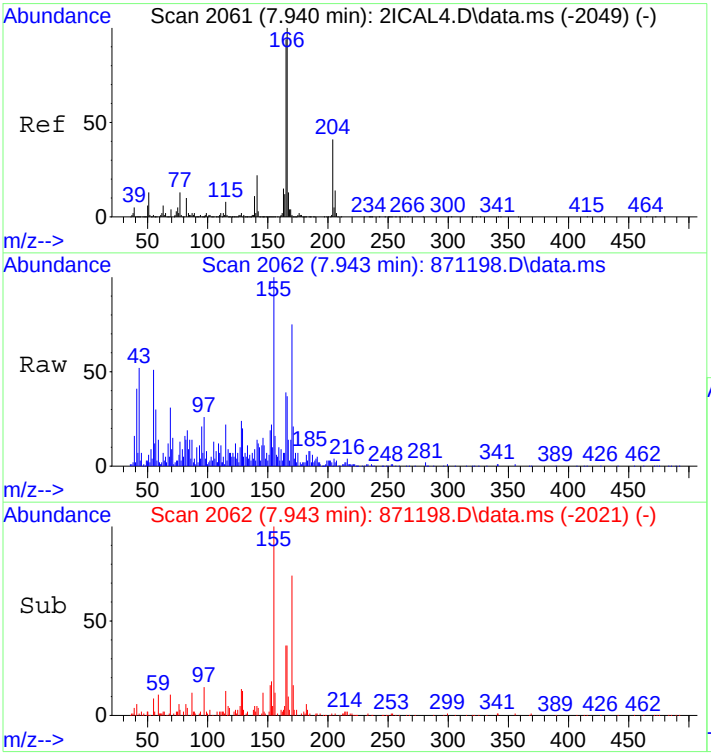


#55
4-Nitrophenol
Concen: 1.27 ug/mL
RT: 7.659 min Scan# 1962
Delta R.T. -0.009 min
Lab File: 871198.D
Acq: 2 Dec 10 10:06 pm

Tgt Ion:109 Resp: 8585

Ion	Ratio	Lower	Upper
109	100		
65	37.3	123.5	183.5#

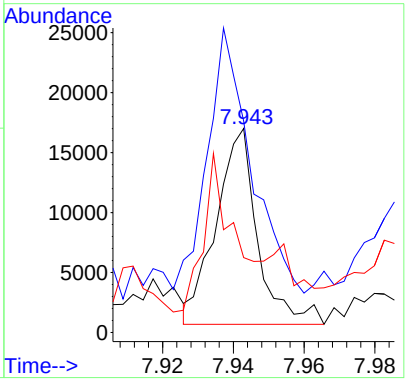


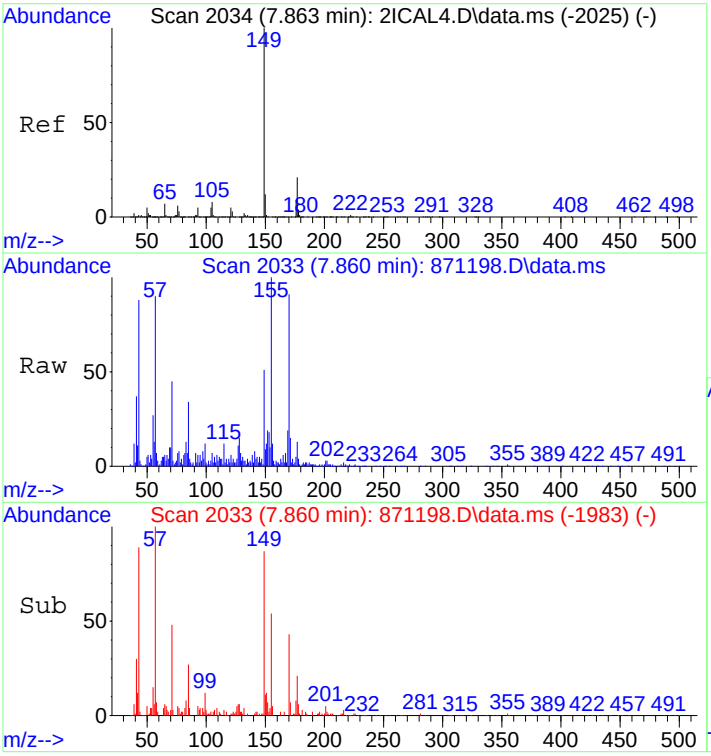


#58
Fluorene
Concen: 0.15 ug/mL
RT: 7.943 min Scan# 2062
Delta R.T. 0.003 min
Lab File: 871198.D
Acq: 2 Dec 10 10:06 pm

Tgt Ion:166 Resp: 13303

Ion	Ratio	Lower	Upper
166	100		
165	76.6	64.5	124.5
167	26.8	0.0	42.6

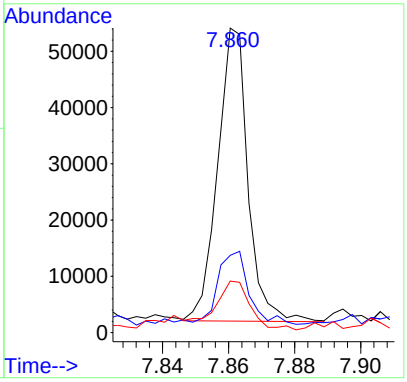


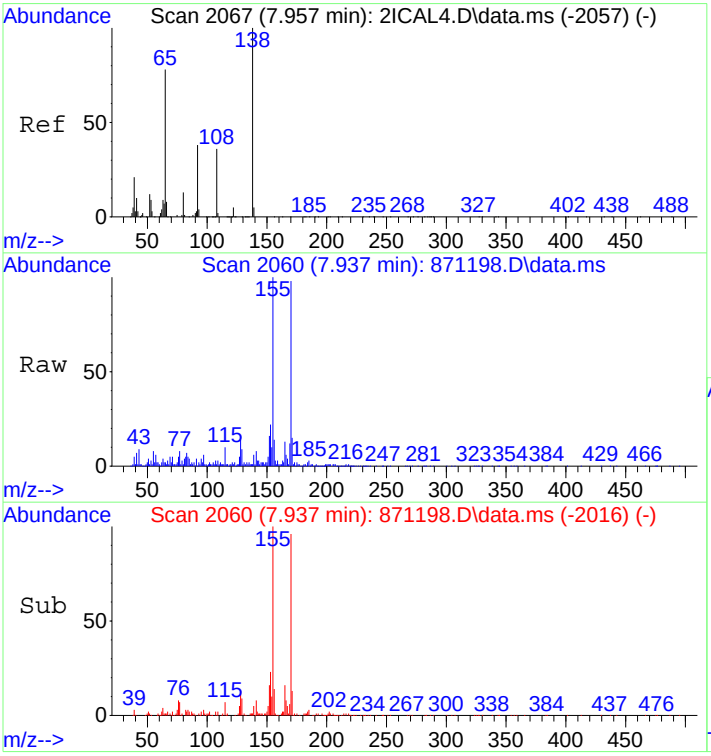


#60
Diethylphthal
Concen: 0.36 ug/mL
RT: 7.860 min Scan# 2033
Delta R.T. -0.003 min
Lab File: 871198.D
Acq: 2 Dec 10 10:06 pm

Tgt Ion:149 Resp: 33258

Ion	Ratio	Lower	Upper
149	100		
177	23.0	0.0	52.2
150	15.6	0.0	42.5

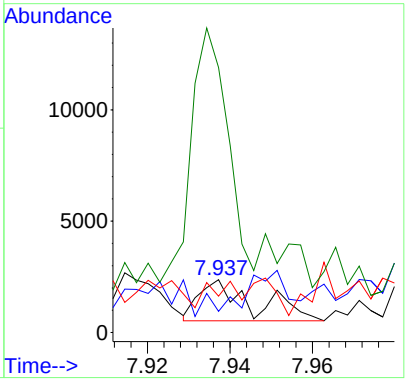


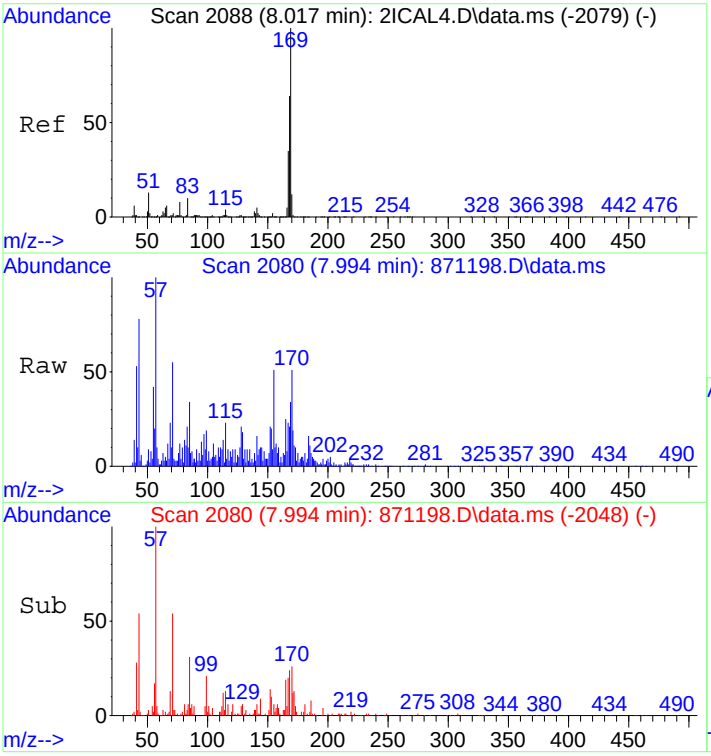


#61
4Nitroaniline
Concen: 0.08 ug/mL
RT: 7.937 min Scan# 2060
Delta R.T. -0.020 min
Lab File: 871198.D
Acq: 2 Dec 10 10:06 pm

Tgt Ion:138 Resp: 1714

Ion	Ratio	Lower	Upper
138	100		
92	0.0	19.9	79.9#
108	0.0	39.4	99.4#
139	482.6	0.0	41.3#

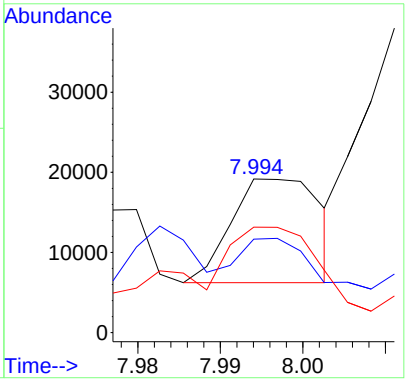


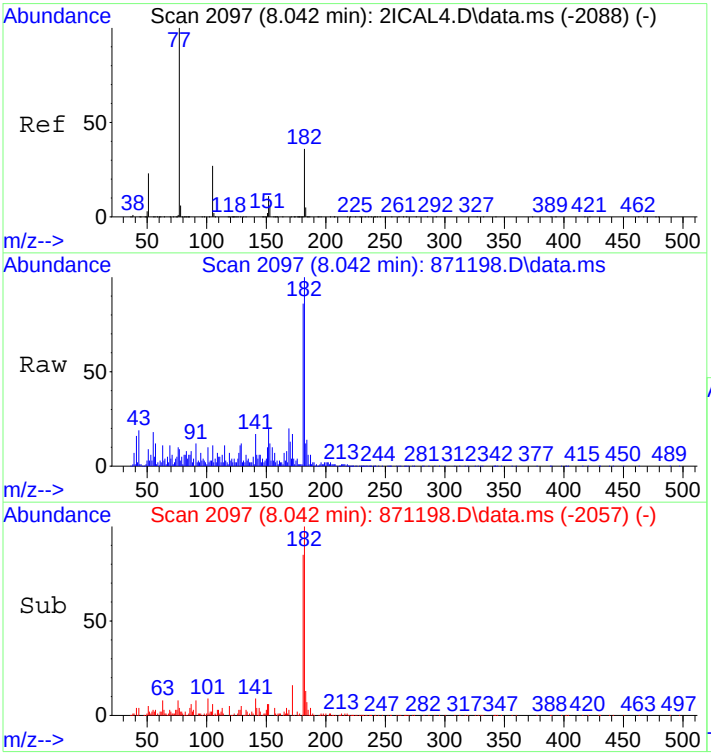


#65
Ntrsdiphlam&Diphlam
Concen: 0.16 ug/mL
RT: 7.994 min Scan# 2080
Delta R.T. -0.023 min
Lab File: 871198.D
Acq: 2 Dec 10 10:06 pm

Tgt Ion:169 Resp: 9735

Ion	Ratio	Lower	Upper
169	100		
168	41.9	34.8	94.8
167	44.4	4.6	64.6

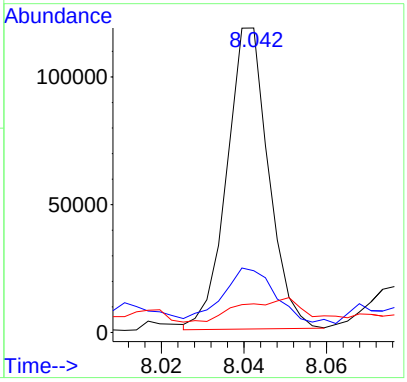


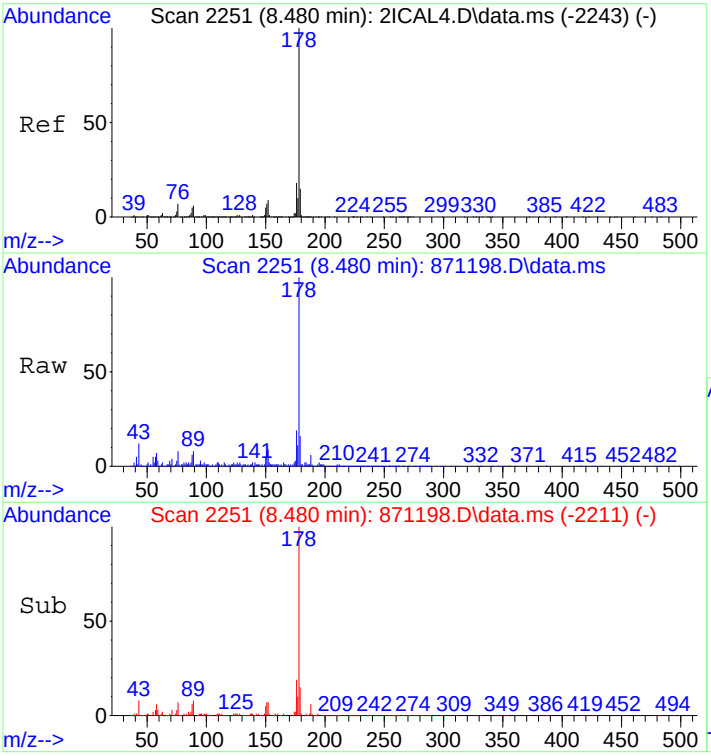


#66
Azobenz&12Diphlhyd
Concen: 3.70 ug/mL
RT: 8.042 min Scan# 2097
Delta R.T. -0.000 min
Lab File: 871198.D
Acq: 2 Dec 10 10:06 pm

Tgt Ion:182 Resp: 82551

Ion	Ratio	Lower	Upper
182	100		
152	16.2	3.5	63.5
77	6.1	348.6	408.6#

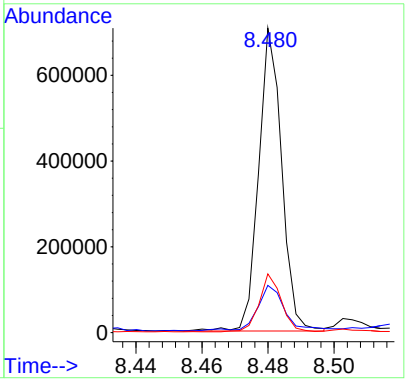


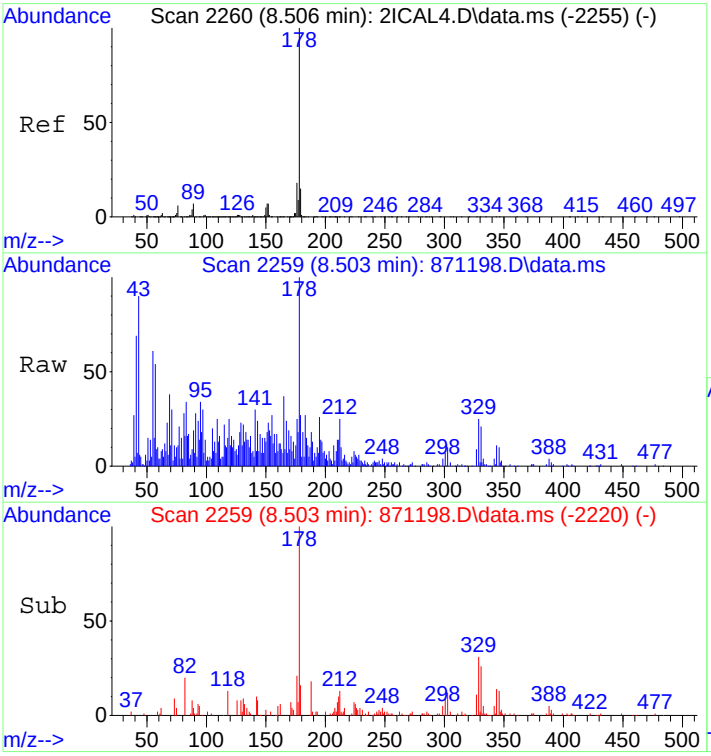


#70
Phenanthrene
Concen: 3.26 ug/mL
RT: 8.480 min Scan# 2251
Delta R.T. -0.000 min
Lab File: 871198.D
Acq: 2 Dec 10 10:06 pm

Tgt Ion:178 Resp: 343531

Ion	Ratio	Lower	Upper
178	100		
179	15.0	0.0	44.4
176	19.1	0.0	48.0

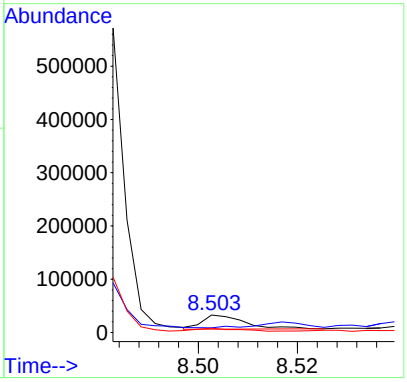


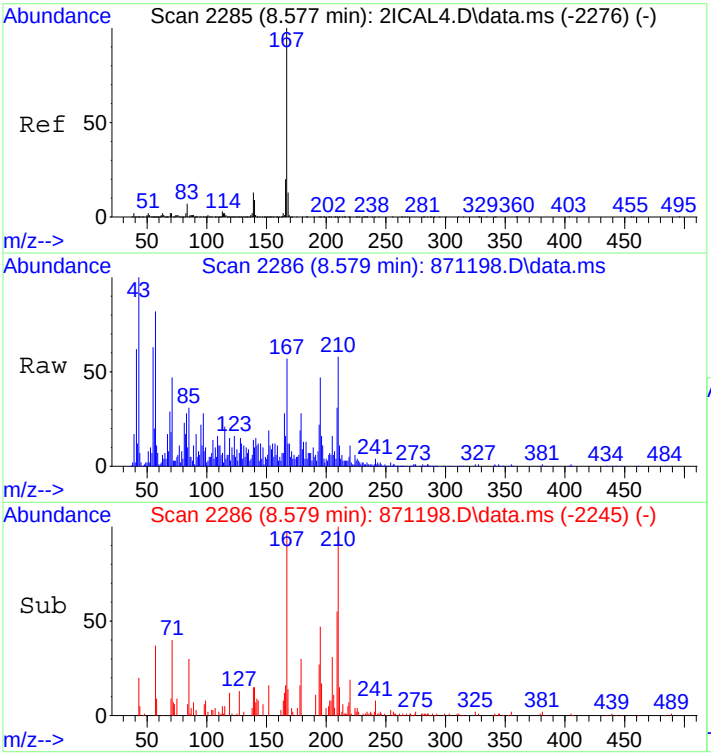


#71
Anthracene
Concen: 0.15 ug/mL
RT: 8.503 min Scan# 2259
Delta R.T. -0.003 min
Lab File: 871198.D
Acq: 2 Dec 10 10:06 pm

Tgt Ion:178 Resp: 15784

Ion	Ratio	Lower	Upper
178	100		
179	0.0	0.0	45.0
176	18.5	0.0	48.4

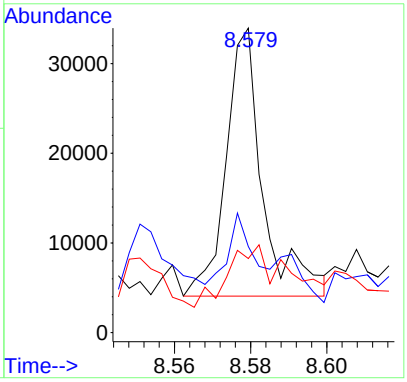


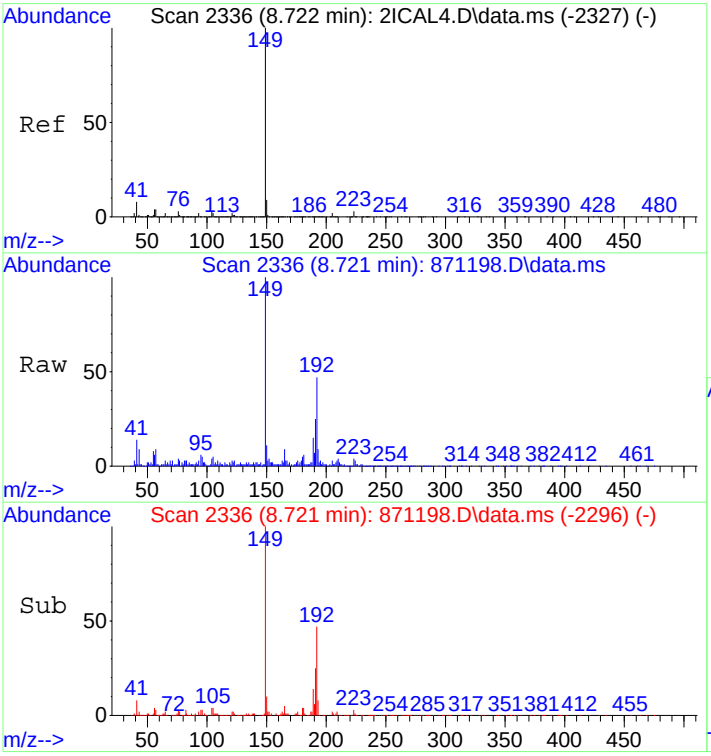


#72
Carbazole
Concen: 0.22 ug/mL
RT: 8.579 min Scan# 2286
Delta R.T. 0.003 min
Lab File: 871198.D
Acq: 2 Dec 10 10:06 pm

Tgt Ion:167 Resp: 20130

Ion	Ratio	Lower	Upper
167	100		
166	20.9	0.0	50.6
139	15.9	0.0	43.0

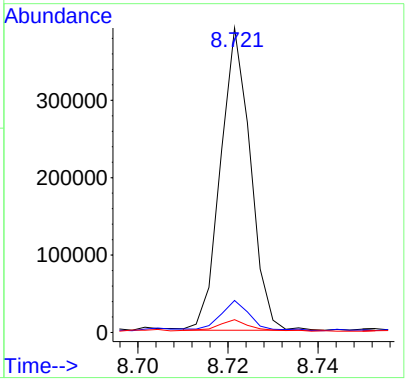


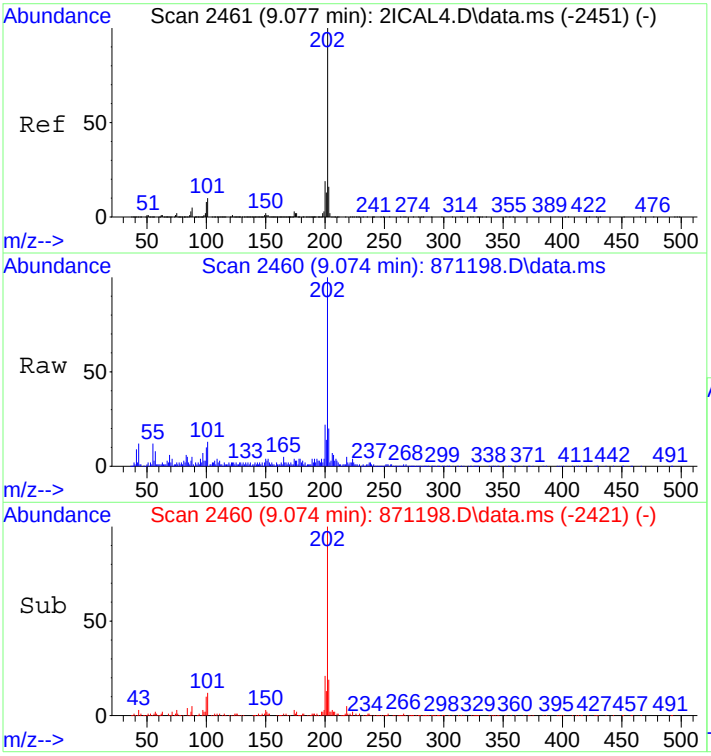


#73
Dinbtylphthal
Concen: 1.47 ug/mL
RT: 8.721 min Scan# 2336
Delta R.T. -0.000 min
Lab File: 871198.D
Acq: 2 Dec 10 10:06 pm

Tgt Ion:149 Resp: 179636

Ion	Ratio	Lower	Upper
149	100		
150	10.0	0.0	38.5
104	3.6	0.0	34.3

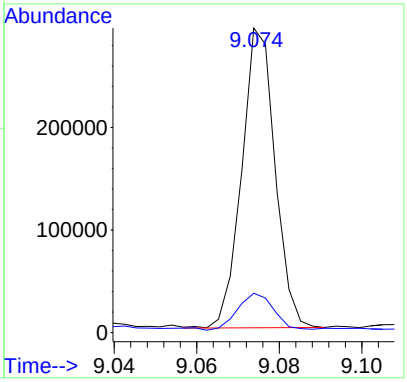


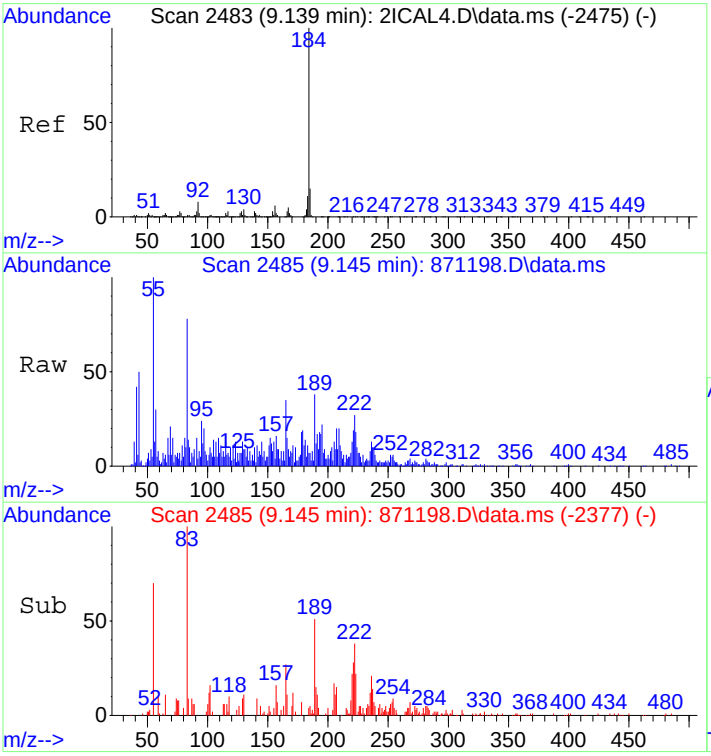


#74
Fluoranthene
Concen: 1.54 ug/mL
RT: 9.074 min Scan# 2460
Delta R.T. -0.003 min
Lab File: 871198.D
Acq: 2 Dec 10 10:06 pm

Tgt Ion:202 Resp: 163761

Ion	Ratio	Lower	Upper
202	100		
101	11.7	0.0	41.2

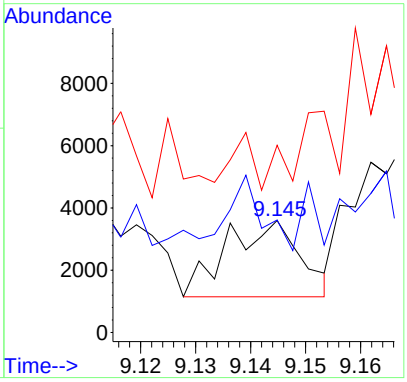


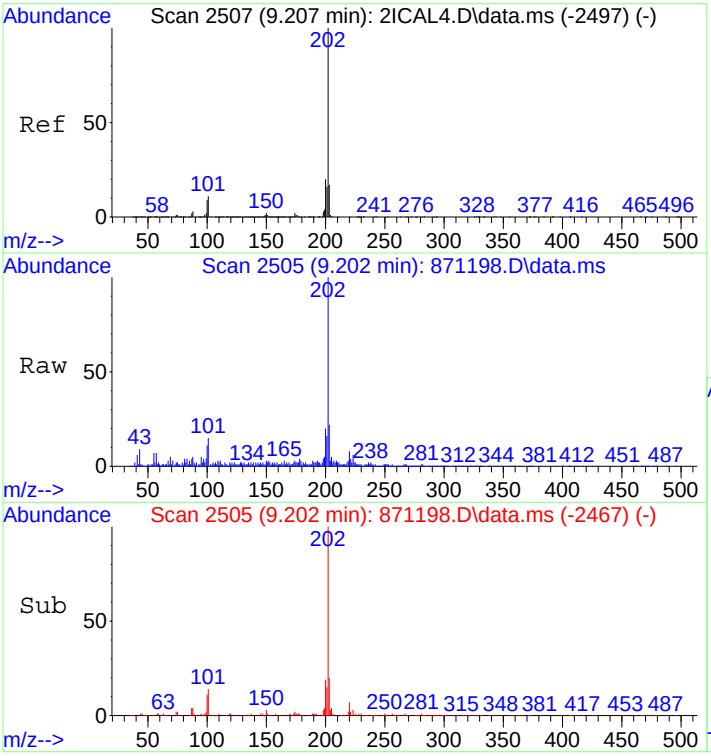


#76
Benzidine
Concen: Below ug/mL
RT: 9.145 min Scan# 2485
Delta R.T. 0.006 min
Lab File: 871198.D
Acq: 2 Dec 10 10:06 pm

Tgt Ion:184 Resp: 2269

Ion	Ratio	Lower	Upper
184	100		
185	32.8	0.0	43.8
183	44.3	0.0	41.8#

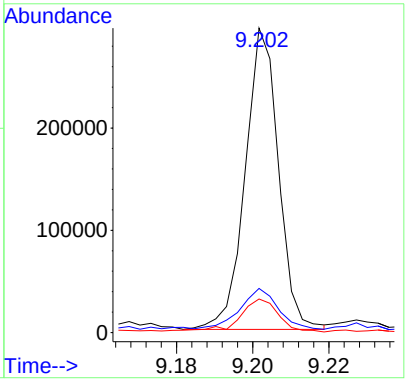


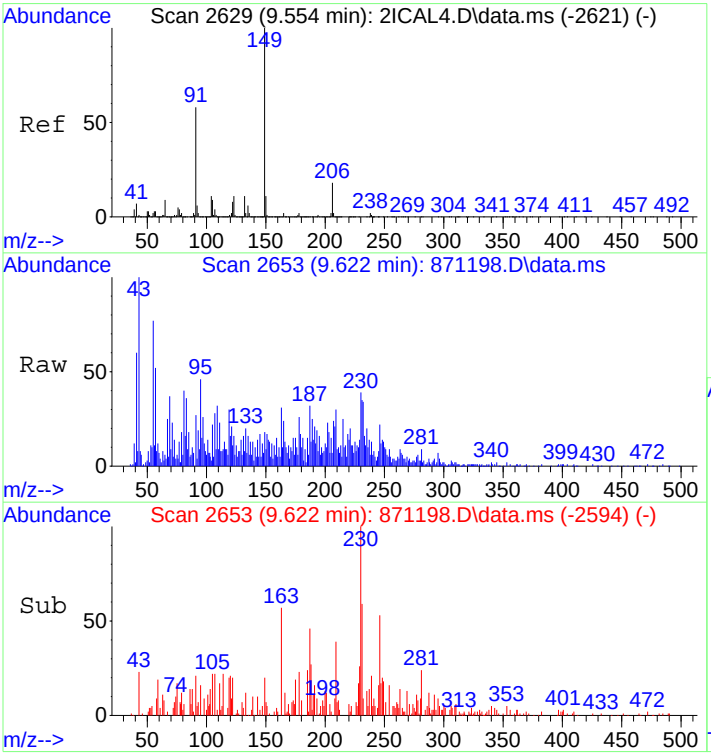


#77
Pyrene
Concen: 1.63 ug/mL
RT: 9.202 min Scan# 2505
Delta R.T. -0.006 min
Lab File: 871198.D
Acq: 2 Dec 10 10:06 pm

Tgt Ion:202 Resp: 178612

Ion	Ratio	Lower	Upper
202	100		
101	13.0	0.0	44.0
100	10.9	0.0	42.2

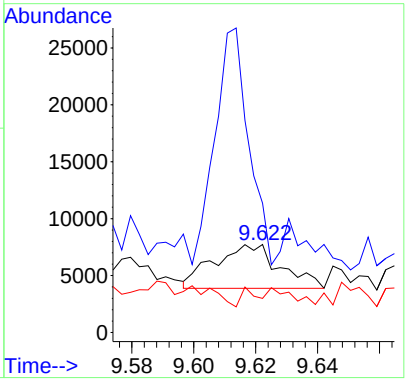


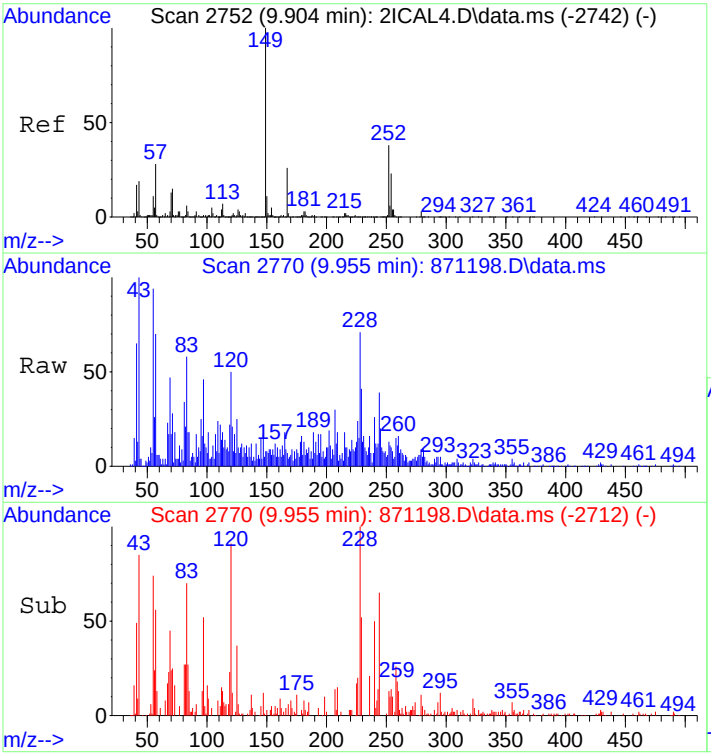


#79
Btylbzylphth
Concen: 0.11 ug/mL
RT: 9.622 min Scan# 2653
Delta R.T. 0.068 min
Lab File: 871198.D
Acq: 2 Dec 10 10:06 pm

Tgt Ion:149 Resp: 5684

Ion	Ratio	Lower	Upper
149	100		
91	94.4	40.5	100.5
206	0.0	0.0	48.9

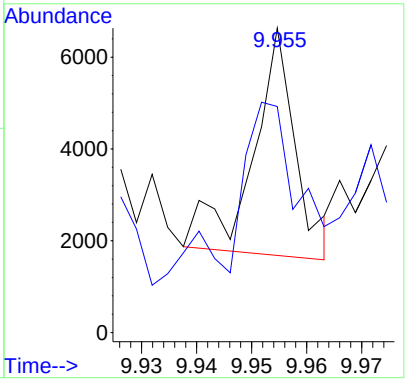


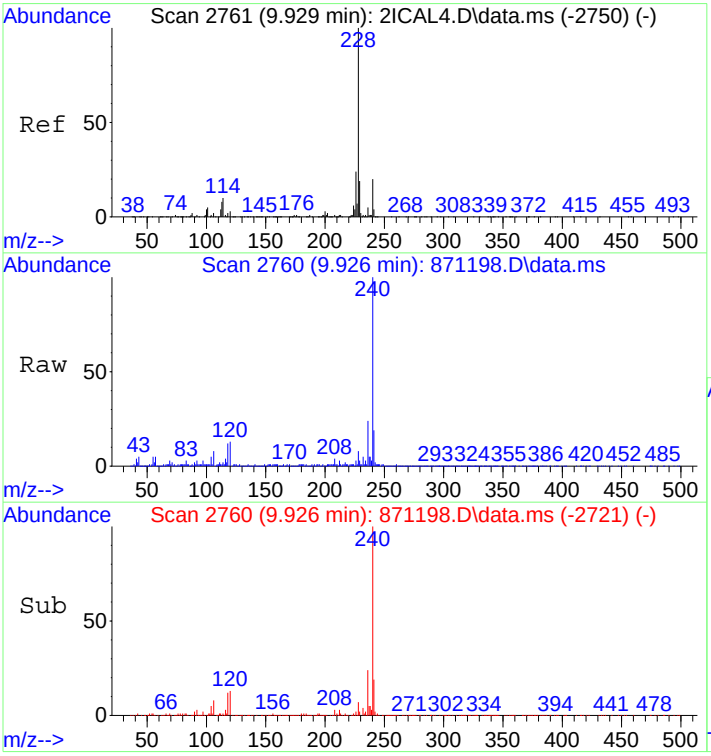


#80
33Diclbnzidin
Concen: Below ug/mL
RT: 9.955 min Scan# 2770
Delta R.T. 0.051 min
Lab File: 871198.D
Acq: 2 Dec 10 10:06 pm

Tgt Ion:252 Resp: 2659

Ion	Ratio	Lower	Upper
252	100		
254	67.0	31.7	91.7

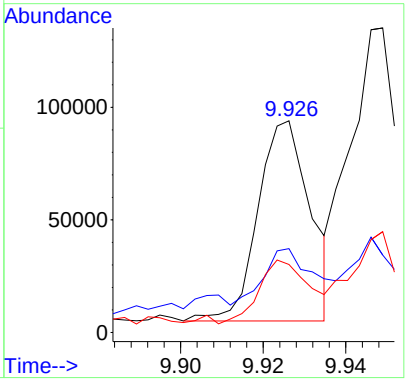


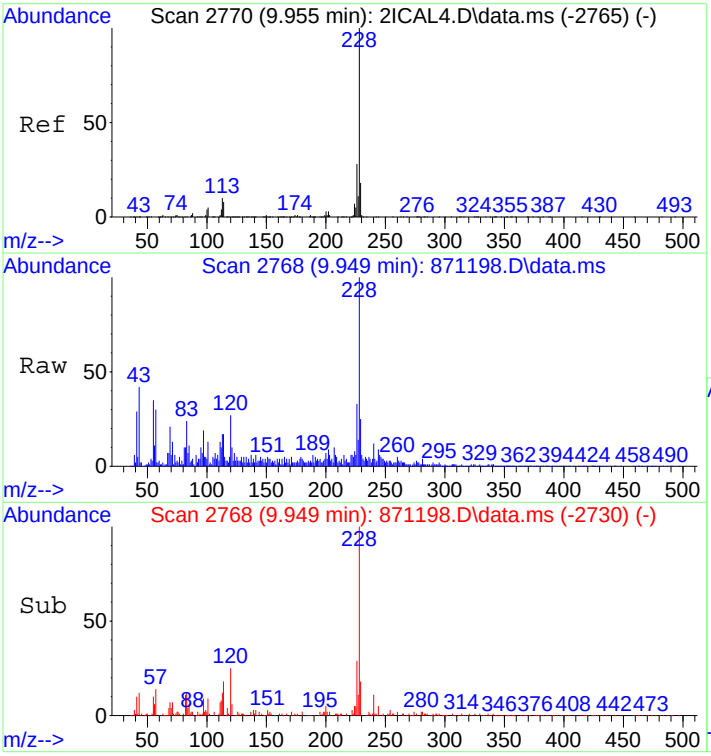


#81
B[a]anthracen
Concen: 0.77 ug/mL
RT: 9.926 min Scan# 2760
Delta R.T. -0.003 min
Lab File: 871198.D
Acq: 2 Dec 10 10:06 pm

Tgt Ion:228 Resp: 78115

Ion	Ratio	Lower	Upper
228	100		
229	30.1	0.0	48.8
226	29.0	0.0	56.6

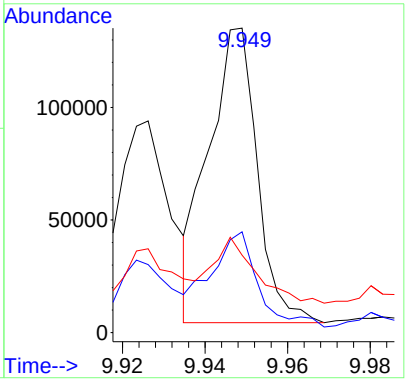


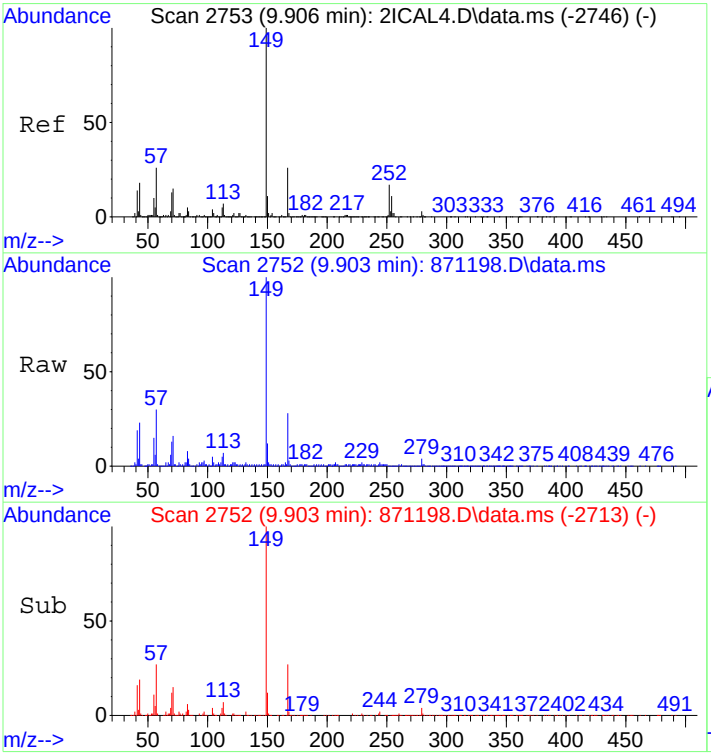


#82
Chrysene
Concen: 1.10 ug/mL
RT: 9.949 min Scan# 2768
Delta R.T. -0.006 min
Lab File: 871198.D
Acq: 2 Dec 10 10:06 pm

Tgt Ion:228 Resp: 107847

Ion	Ratio	Lower	Upper
228	100		
226	32.3	0.0	58.6
229	16.3	0.0	49.6

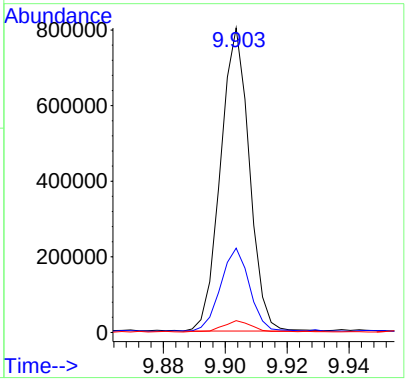


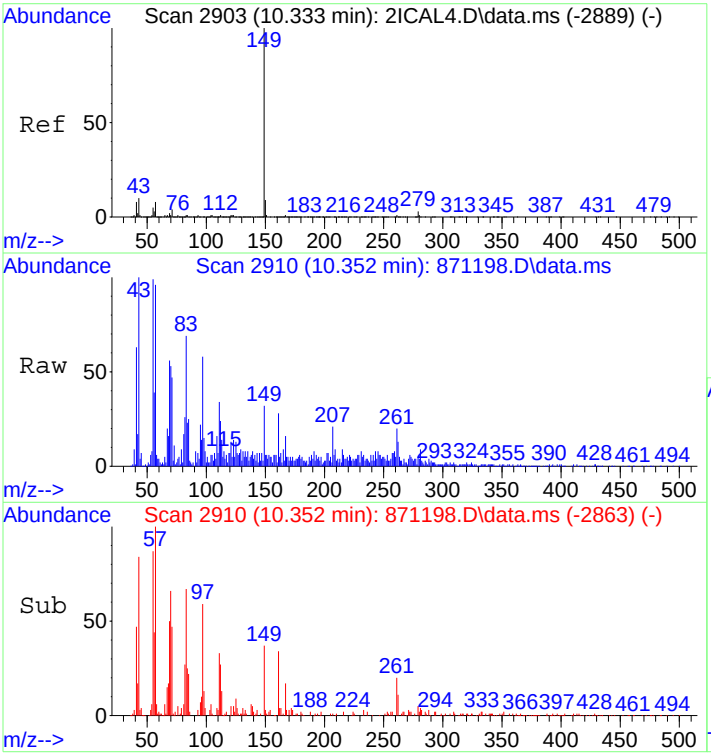


#83
bis2Ethlhxlph
Concen: 6.71 ug/mL
RT: 9.903 min Scan# 2752
Delta R.T. -0.003 min
Lab File: 871198.D
Acq: 2 Dec 10 10:06 pm

Tgt Ion:149 Resp: 518981

Ion	Ratio	Lower	Upper
149	100		
167	27.3	0.0	56.9
279	3.7	0.0	33.6

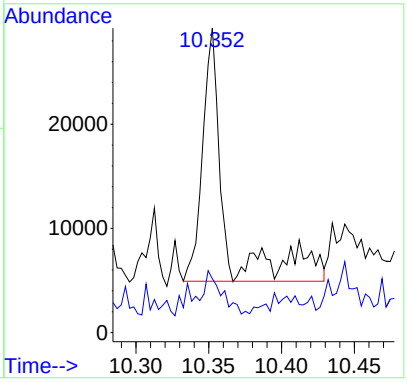


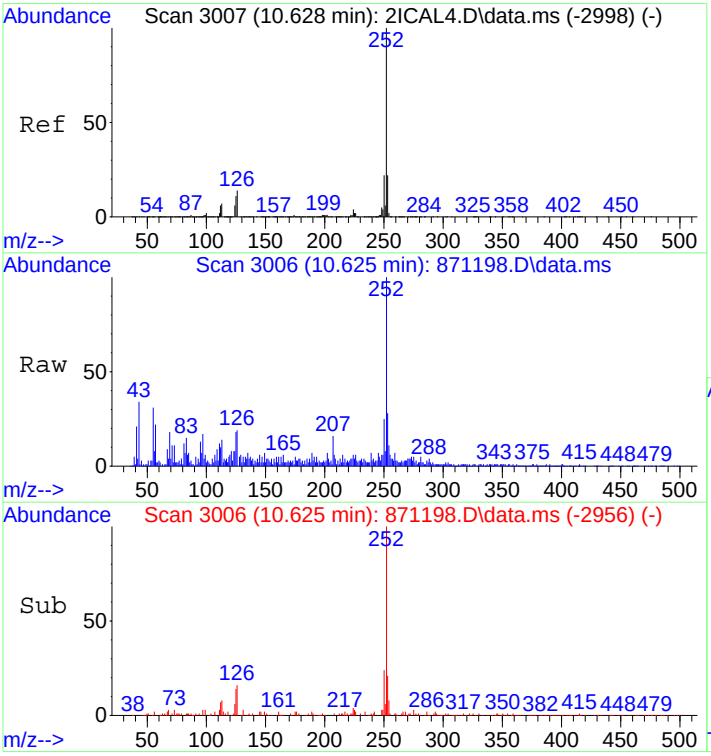


#84
Dinoctylphthl
Concen: 0.19 ug/mL
RT: 10.352 min Scan# 2910
Delta R.T. 0.020 min
Lab File: 871198.D
Acq: 2 Dec 10 10:06 pm

Tgt Ion:149 Resp: 26040

Ion	Ratio	Lower	Upper
149	100		
150	11.5	0.0	39.0

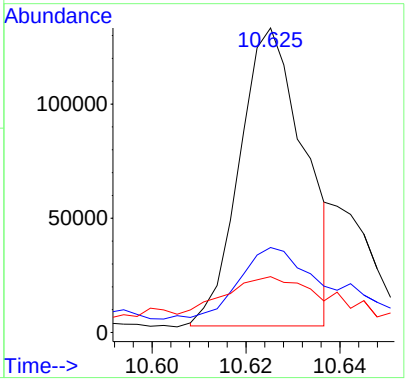


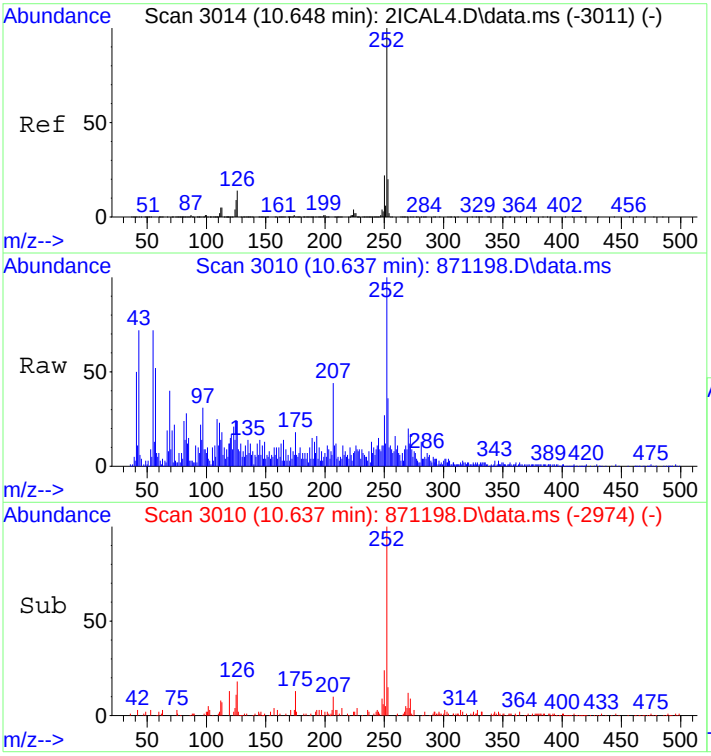


#86
B[b]fluoranth
Concen: 1.39 ug/mL m
RT: 10.625 min Scan# 3006
Delta R.T. -0.003 min
Lab File: 871198.D
Acq: 2 Dec 10 10:06 pm

Tgt Ion:252 Resp: 125010

Ion	Ratio	Lower	Upper
252	100		
253	27.9	0.0	50.8
125	18.4	0.0	41.9

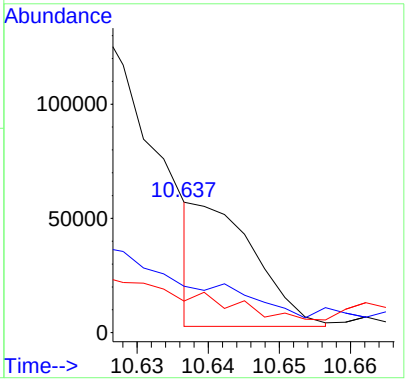


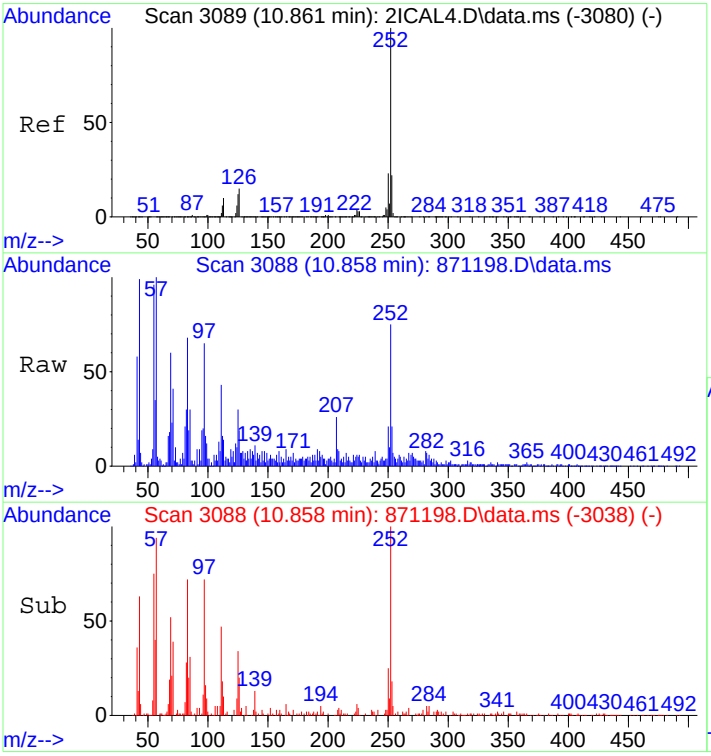


#87
B[k]fluoranth
Concen: 0.37 ug/mL m
RT: 10.637 min Scan# 3010
Delta R.T. -0.011 min
Lab File: 871198.D
Acq: 2 Dec 10 10:06 pm

Tgt Ion:252 Resp: 31624

Ion	Ratio	Lower	Upper
252	100		
253	35.5	0.0	50.8
125	24.1	0.0	41.3

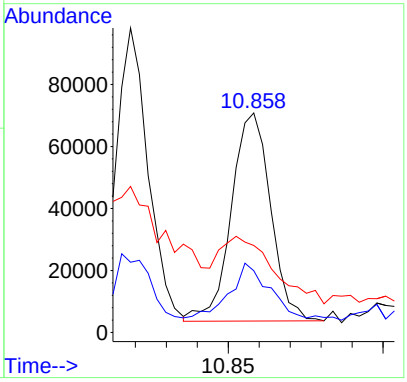


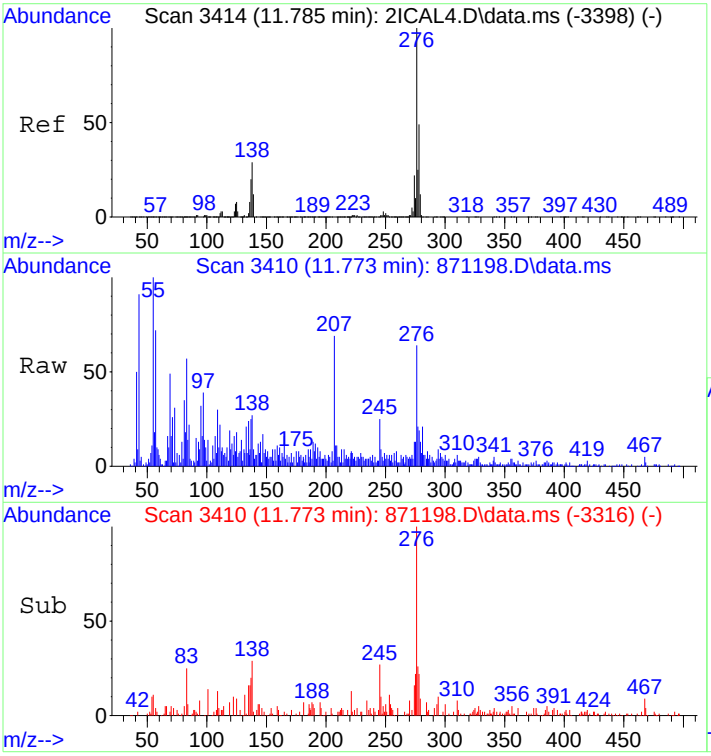


#88
Benz[a]pyrene
Concen: 0.72 ug/mL
RT: 10.858 min Scan# 3088
Delta R.T. -0.003 min
Lab File: 871198.D
Acq: 2 Dec 10 10:06 pm

Tgt Ion:252 Resp: 59311

Ion	Ratio	Lower	Upper
252	100		
253	22.7	0.0	50.4
125	28.1	0.0	43.2

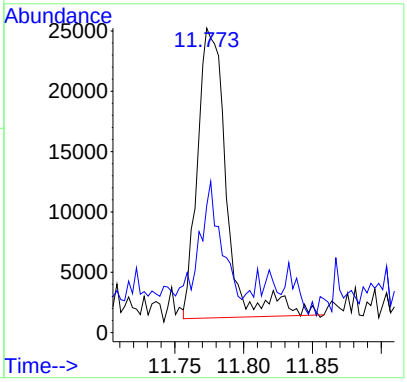


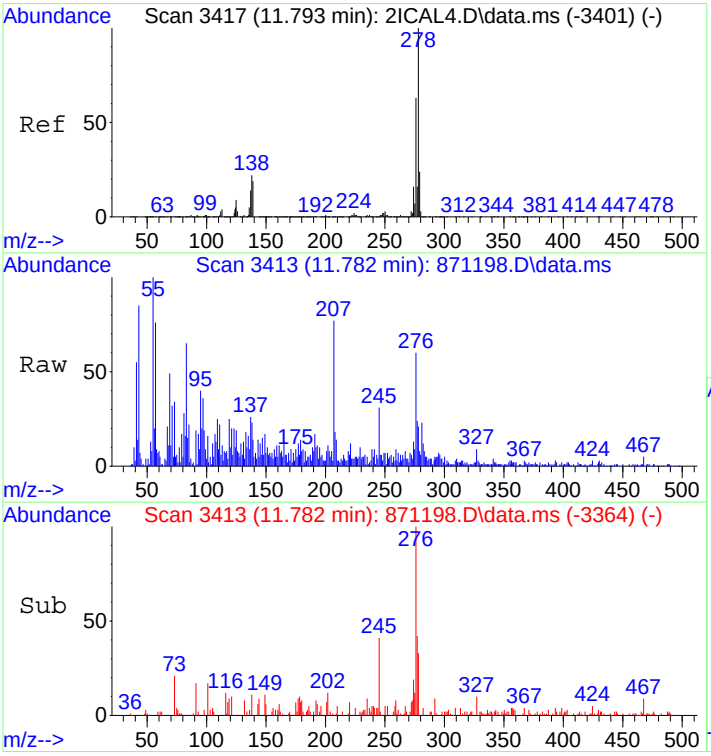


#89
Indeno-pyrene
Concen: 0.42 ug/mL
RT: 11.773 min Scan# 3410
Delta R.T. -0.012 min
Lab File: 871198.D
Acq: 2 Dec 10 10:06 pm

Tgt Ion:276 Resp: 35012

Ion	Ratio	Lower	Upper
276	100		
138	32.5	2.2	62.2

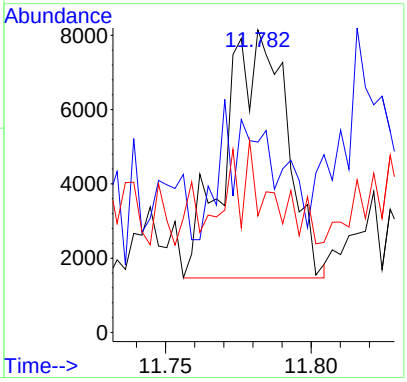


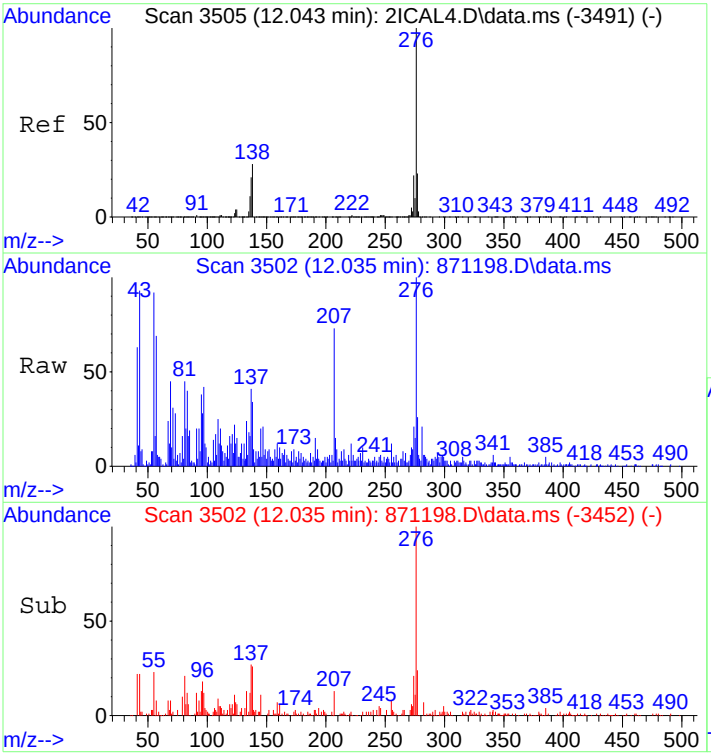


#90
Dib[ah]anthr
Concen: 0.15 ug/mL
RT: 11.782 min Scan# 3413
Delta R.T. -0.011 min
Lab File: 871198.D
Acq: 2 Dec 10 10:06 pm

Tgt Ion:278 Resp: 9806

Ion	Ratio	Lower	Upper
278	100		
139	43.4	0.0	50.7
279	10.7	0.0	54.3

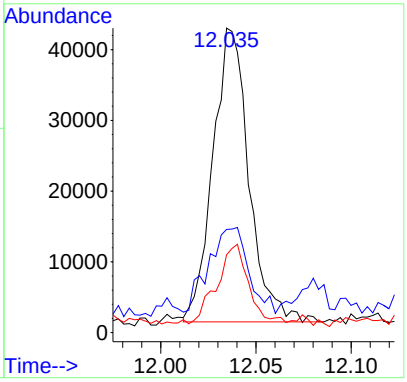


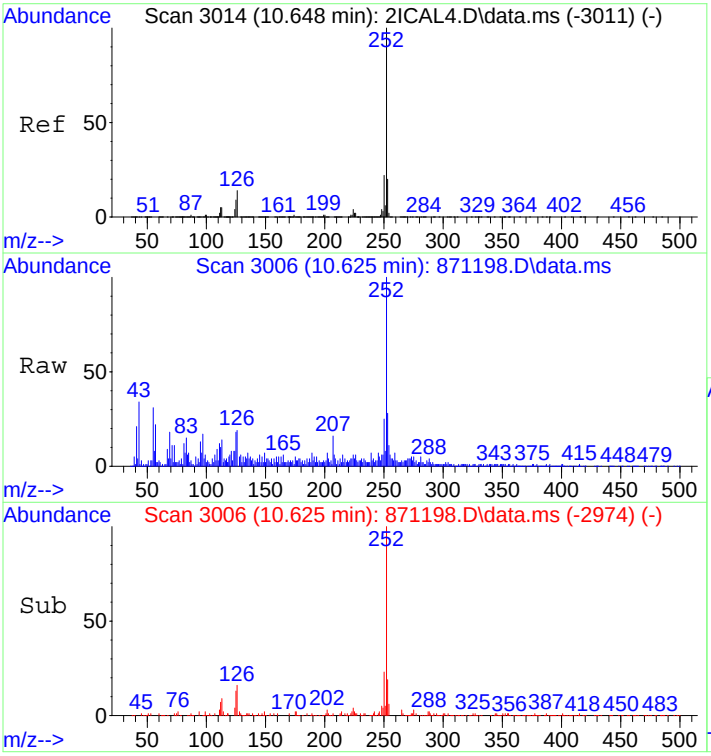


#91
B[ghi]perylen
Concen: 0.79 ug/mL
RT: 12.035 min Scan# 3502
Delta R.T. -0.009 min
Lab File: 871198.D
Acq: 2 Dec 10 10:06 pm

Tgt Ion:276 Resp: 54647

Ion	Ratio	Lower	Upper
276	100		
138	28.1	0.0	57.5
277	23.4	0.0	53.1



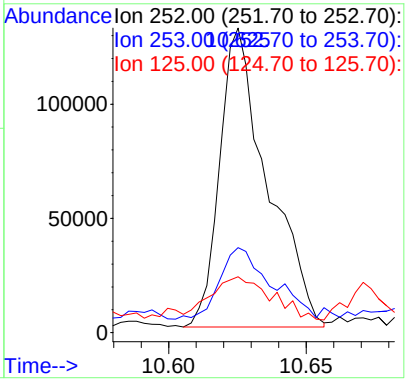


#87
B[k]fluoranth
Concen: 1.86 ug/mL
RT: 10.625 min Scan# 3006
Delta R.T. -0.023 min
Lab File: 871198.D
Acq: 2 Dec 2010 22:06

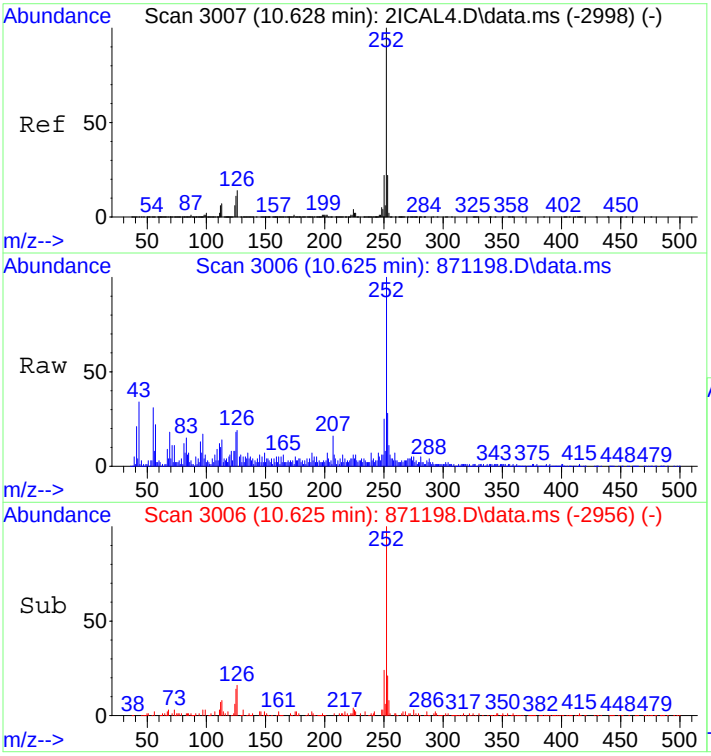
Tgt Ion:252 Resp: 157857

Ion	Ratio	Lower	Upper
252	100		
253	22.8	0.0	50.8
125	14.5	0.0	41.3

RPN
12/13/10



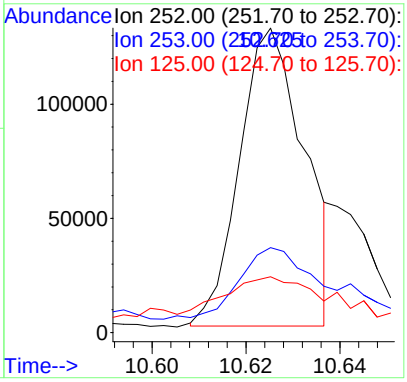
Before Manual Integration



#86
B[b]fluoranth
Concen: 1.39 ug/mL m
RT: 10.625 min Scan# 3006
Delta R.T. -0.003 min
Lab File: 871198.D
Acq: 2 Dec 2010 22:06

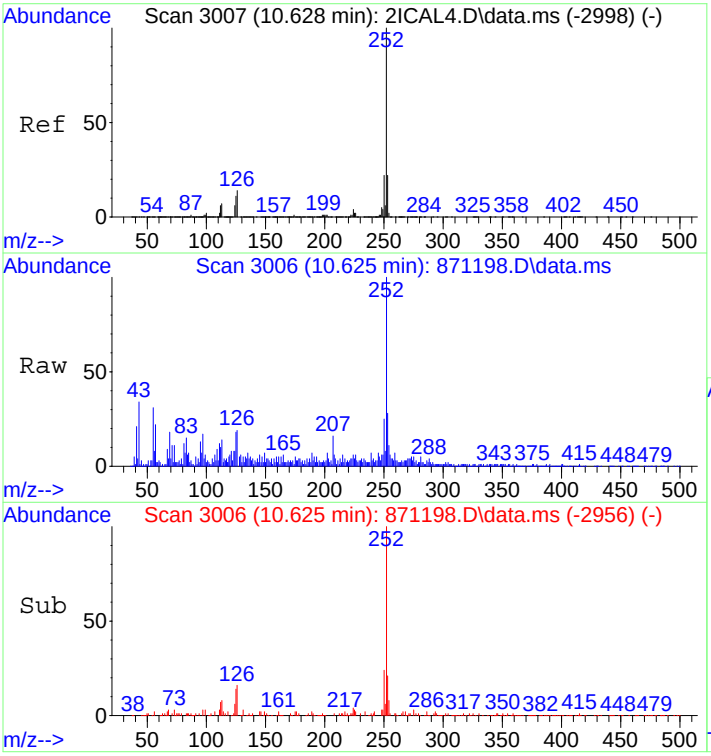
Tgt Ion:252 Resp: 125010

Ion	Ratio	Lower	Upper
252	100		
253	27.9	0.0	50.8
125	18.4	0.0	41.9



CRPN 12/13/10 JJY 01/05/11

After Manual Integration

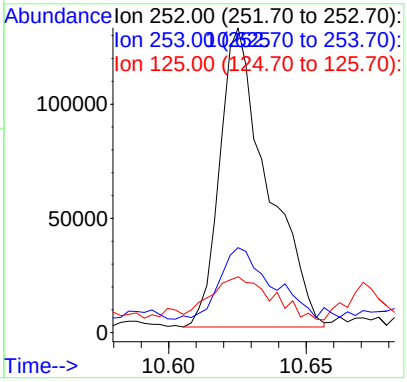


#86
B[b]fluoranth
Concen: 1.76 ug/mL
RT: 10.625 min Scan# 3006
Delta R.T. -0.003 min
Lab File: 871198.D
Acq: 2 Dec 2010 22:06

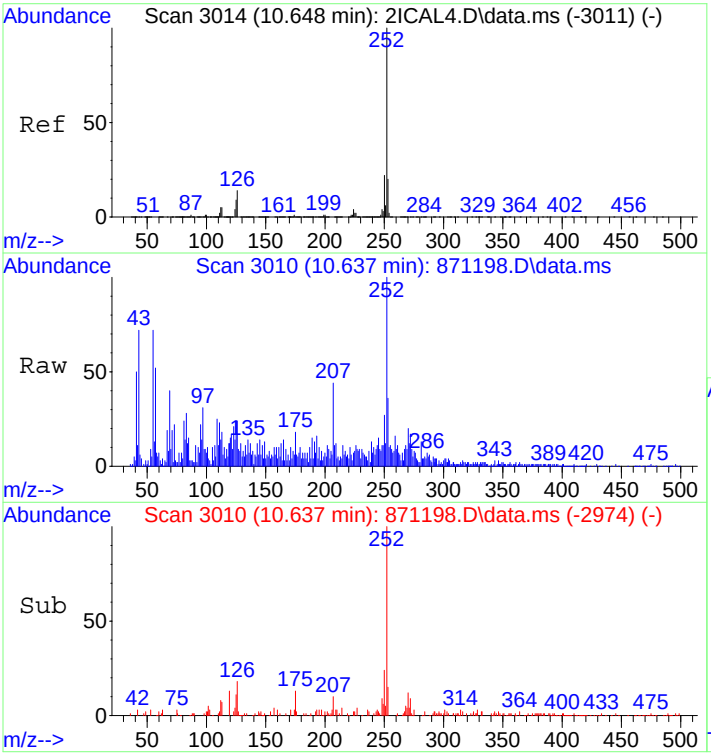
Tgt Ion:252 Resp: 157857

Ion	Ratio	Lower	Upper
252	100		
253	22.8	0.0	50.8
125	14.5	0.0	41.9

RPN
12/13/10



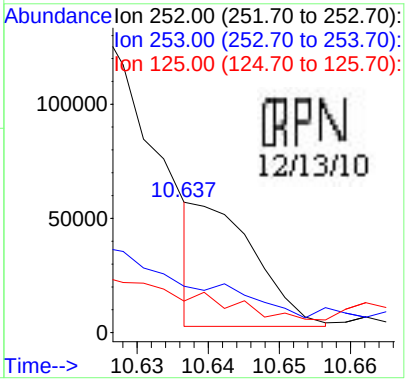
Before Manual Integration



#87
B[k]fluoranth
Concen: 0.37 ug/mL m
RT: 10.637 min Scan# 3010
Delta R.T. -0.011 min
Lab File: 871198.D
Acq: 2 Dec 2010 22:06

Tgt Ion:252 Resp: 31624

Ion	Ratio	Lower	Upper
252	100		
253	35.5	0.0	50.8
125	24.1	0.0	41.3



RPN
12/13/10

JJY
01/05/11

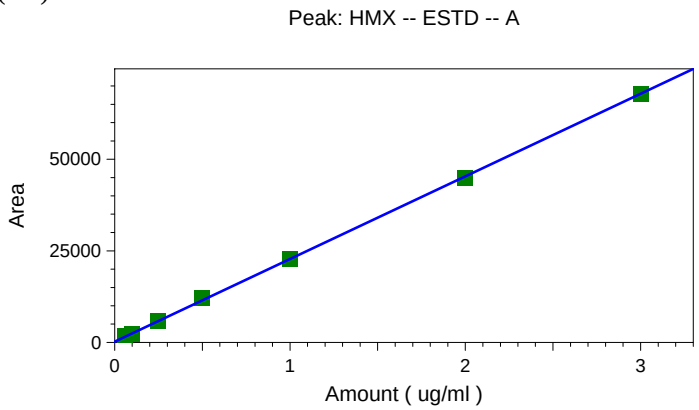
After Manual Integration

SEMI - VOLATILE ORGANIC ANALYSIS
INITIAL CALIBRATION
DOCUMENTS

Calibration Report

Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:04:50
User: red
Instrument: HPLC 2 (Offline)

HMX (A)
Average RF: 23659.7 RF StDev: 1976.10 RF %RSD: 8.35215
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 22555.2x + 210.639
Goodness of fit (r^2): 0.999764



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.06	0.1	0.25	0.5	1
Area	1670	2240	5773	12243	22762
RF	27833.33333 33333	22400	23092	24486	22762
Last Area Residual	-0.00470161	0.0100271	0.00338946	-0.0334618	0.000172127
Rep StDev					
Rep %RSD					
Rep 1 Area	1670	2240	5773	12243	22762
Rep 1 User	red	red	red	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\002.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\003.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\004.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\005.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\006.dat
Rep 1 Sample ID	8330 Pt 1 EXP 4112	8330 Pt 2 EXP 4113	8330 Pt 3 EXP 4114	8330 Pt 4 EXP 4115	8330 Pt 5 EXP 4116
Rep 1 Calib. Time	Dec 07, 2010 14:17:56	Dec 07, 2010 13:31:03	Dec 07, 2010 13:31:12	Dec 07, 2010 13:31:20	Dec 07, 2010 13:31:30

Calibration Report

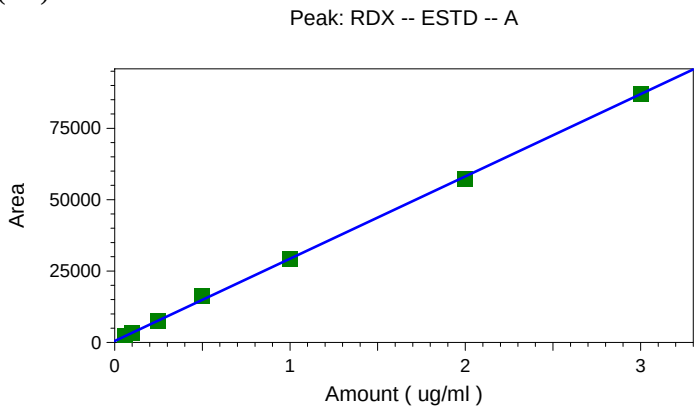
Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:04:50
User: red
Instrument: HPLC 2 (Offline)

	Level 6	Level 7
Amount	2	3
Area	44817	67909
RF	22408.5	22636.3333333333
Last Area Residual	0.0223507	-0.00144674
Rep StDev		
Rep %RSD		
Rep 1 Area	44817	67909
Rep 1 User	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\007.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\008.dat
Rep 1 Sample ID	8330 Pt 6 EXP 4117	8330 Pt 7 EXP 4118
Rep 1 Calib. Time	Dec 07, 2010 13:38:44	Dec 07, 2010 14:15:32

Calibration Report

Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:04:52
User: red
Instrument: HPLC 2 (Offline)

RDX (A)
Average RF: 31322.4 RF StDev: 3507.45 RF %RSD: 11.1979
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 28818.4x + 494.442
Goodness of fit (r^2): 0.999548



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.06	0.1	0.25	0.5	1
Area	2310	3190	7354	16272	29209
RF	38500	31900	29416	32544	29209
Last Area Residual	-0.00299993	0.00646404	0.0119731	-0.0474818	0.00360395
Rep StDev					
Rep %RSD					
Rep 1 Area	2310	3190	7354	16272	29209
Rep 1 User	red	red	red	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\002.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\003.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\004.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\005.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\006.dat
Rep 1 Sample ID	8330 Pt 1 EXP 4112	8330 Pt 2 EXP 4113	8330 Pt 3 EXP 4114	8330 Pt 4 EXP 4115	8330 Pt 5 EXP 4116
Rep 1 Calib. Time	Dec 07, 2010 14:17:56	Dec 07, 2010 13:31:03	Dec 07, 2010 13:31:12	Dec 07, 2010 13:31:20	Dec 07, 2010 13:31:30

Level 6	Level 7

Calibration Report

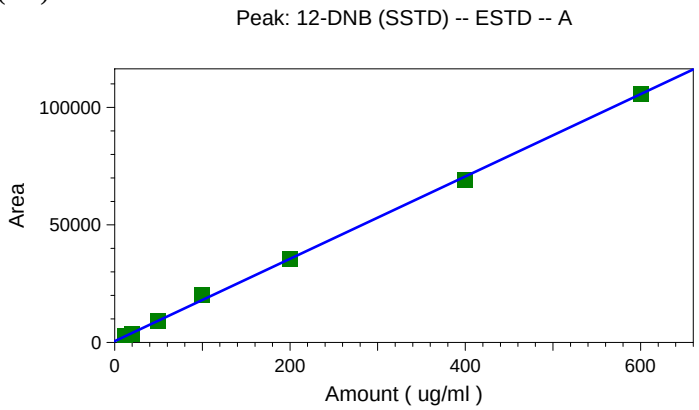
Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:04:52
User: red
Instrument: HPLC 2 (Offline)

Amount	2	3
Area	57285	87135
RF	28642.5	29045
Last Area		
Residual	0.0293659	-0.00643001
Rep StDev		
Rep %RSD		
Rep 1 Area	57285	87135
Rep 1 User	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\007.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\008.dat
Rep 1 Sample ID	8330 Pt 6 EXP 4117	8330 Pt 7 EXP 4118
Rep 1 Calib. Time	Dec 07, 2010 13:38:44	Dec 07, 2010 14:15:32

Calibration Report

Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:04:54
User: red
Instrument: HPLC 2 (Offline)

12-DNB (SSTD) (A)
Average RF: 189.408 RF StDev: 20.6803 RF %RSD: 10.9184
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 175.197x + 552.246
Goodness of fit (r^2): 0.999279



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	12	20	50	100	200
Area	2780	3650	9184	20068	35627
RF	231.666666666667	182.5	183.68	200.68	178.135
Last Area Residual	-0.715677	2.3185	0.731273	-11.3929	-0.20132
Rep StDev					
Rep %RSD					
Rep 1 Area	2780	3650	9184	20068	35627
Rep 1 User	red	red	red	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\002.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\003.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\004.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\005.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\006.dat
Rep 1 Sample ID	8330 Pt 1 EXP 4112	8330 Pt 2 EXP 4113	8330 Pt 3 EXP 4114	8330 Pt 4 EXP 4115	8330 Pt 5 EXP 4116
Rep 1 Calib. Time	Dec 07, 2010 14:17:56	Dec 07, 2010 13:31:03	Dec 07, 2010 13:31:12	Dec 07, 2010 13:31:20	Dec 07, 2010 13:31:30

Calibration Report

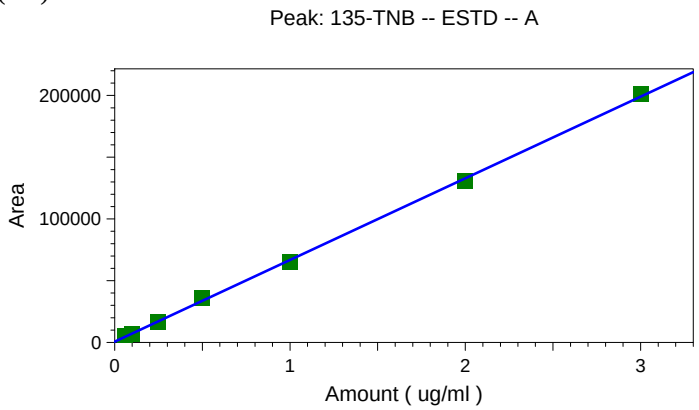
Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:04:54
User: red
Instrument: HPLC 2 (Offline)

	Level 6	Level 7
Amount	400	600
Area	69101	105864
RF	172.7525	176.44
Last Area		
Residual	8.73422	-1.10335
Rep StDev		
Rep %RSD		
Rep 1 Area	69101	105864
Rep 1 User	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\007.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\008.dat
Rep 1 Sample ID	8330 Pt 6 EXP 4117	8330 Pt 7 EXP 4118
Rep 1 Calib. Time	Dec 07, 2010 13:38:44	Dec 07, 2010 14:15:32

Calibration Report

Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:04:56
User: red
Instrument: HPLC 2 (Offline)

135-TNB (A)
Average RF: 69315.8 RF StDev: 7114.25 RF %RSD: 10.2635
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 66166.0x + 564.701
Goodness of fit (r^2): 0.999351



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.06	0.1	0.25	0.5	1
Area	5055	6438	16587	36258	65318
RF	84250	64380	66348	72516	65318
Last Area Residual	-0.00786416	0.0112339	0.00784687	-0.0394509	0.0213506
Rep StDev					
Rep %RSD					
Rep 1 Area	5055	6438	16587	36258	65318
Rep 1 User	red	red	red	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\002.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\003.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\004.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\005.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\006.dat
Rep 1 Sample ID	8330 Pt 1 EXP 4112	8330 Pt 2 EXP 4113	8330 Pt 3 EXP 4114	8330 Pt 4 EXP 4115	8330 Pt 5 EXP 4116
Rep 1 Calib. Time	Dec 07, 2010 14:17:56	Dec 07, 2010 13:31:03	Dec 07, 2010 13:31:12	Dec 07, 2010 13:31:20	Dec 07, 2010 13:31:30

	Level 6	Level 7

Calibration Report

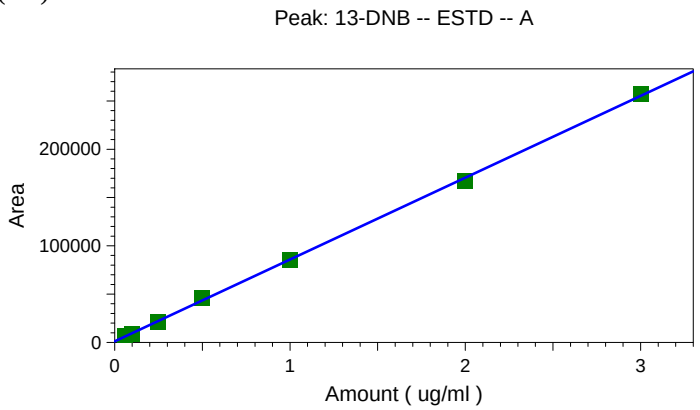
Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:04:56
User: red
Instrument: HPLC 2 (Offline)

Amount	2	3
Area	130488	201463
RF	65244	67154.3333333333
Last Area		
Residual	0.0364033	-0.0362778
Rep StDev		
Rep %RSD		
Rep 1 Area	130488	201463
Rep 1 User	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\007.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\008.dat
Rep 1 Sample ID	8330 Pt 6 EXP 4117	8330 Pt 7 EXP 4118
Rep 1 Calib. Time	Dec 07, 2010 13:38:44	Dec 07, 2010 14:15:32

Calibration Report

Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:04:58
User: red
Instrument: HPLC 2 (Offline)

13-DNB (A)
Average RF: 90745.7 RF StDev: 11175.6 RF %RSD: 12.3153
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 84685.9x + 1132.09
Goodness of fit (r^2): 0.999539



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.06	0.1	0.25	0.5	1
Area	6916	8663	21497	46326	85054
RF	115266.6666 66667	86630	85988	92652	85054
Last Area Residual	-0.00829835	0.0110725	0.00952428	-0.0336649	0.00902177
Rep StDev					
Rep %RSD					
Rep 1 Area	6916	8663	21497	46326	85054
Rep 1 User	red	red	red	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\002.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\003.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\004.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\005.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\006.dat
Rep 1 Sample ID	8330 Pt 1 EXP 4112	8330 Pt 2 EXP 4113	8330 Pt 3 EXP 4114	8330 Pt 4 EXP 4115	8330 Pt 5 EXP 4116
Rep 1 Calib. Time	Dec 07, 2010 14:17:56	Dec 07, 2010 13:31:03	Dec 07, 2010 13:31:12	Dec 07, 2010 13:31:20	Dec 07, 2010 13:31:30

Calibration Report

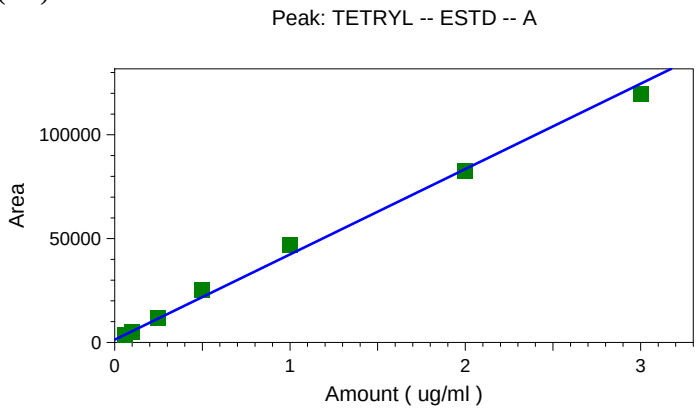
Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:04:58
User: red
Instrument: HPLC 2 (Offline)

	Level 6	Level 7
Amount	2	3
Area	167563	257544
RF	83781.5	85848
Last Area Residual	0.0347276	-0.0277984
Rep StDev		
Rep %RSD		
Rep 1 Area	167563	257544
Rep 1 User	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\007.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\008.dat
Rep 1 Sample ID	8330 Pt 6 EXP 4117	8330 Pt 7 EXP 4118
Rep 1 Calib. Time	Dec 07, 2010 13:38:44	Dec 07, 2010 14:15:32

Calibration Report

Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:04:59
User: red
Instrument: HPLC 2 (Offline)

TETRYL (A)
Average RF: 47486.3 RF StDev: 6233.29 RF %RSD: 13.1265
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 41110.4x + 1298.41
Goodness of fit (r^2): 0.995416



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.06	0.1	0.25	0.5	1
Area	3529	4809	11844	25119	46725
RF	58816.66666 66667	48090	47376	50238	46725
Last Area Residual	0.00574142	0.0146057	-0.00651891	-0.07943	-0.104991
Rep StDev					
Rep %RSD					
Rep 1 Area	3529	4809	11844	25119	46725
Rep 1 User	red	red	red	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\002.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\003.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\004.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\005.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\006.dat
Rep 1 Sample ID	8330 Pt 1 EXP 4112	8330 Pt 2 EXP 4113	8330 Pt 3 EXP 4114	8330 Pt 4 EXP 4115	8330 Pt 5 EXP 4116
Rep 1 Calib. Time	Dec 07, 2010 14:17:56	Dec 07, 2010 13:31:03	Dec 07, 2010 13:31:12	Dec 07, 2010 13:31:20	Dec 07, 2010 13:31:30

Calibration Report

Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:04:59
User: red
Instrument: HPLC 2 (Offline)

	Level 6	Level 7
Amount	2	3
Area	82428	119834
RF	41214	39944.6666666667
Last Area		
Residual	0.0265427	0.116651
Rep StDev		
Rep %RSD		
Rep 1 Area	82428	119834
Rep 1 User	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\007.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\008.dat
Rep 1 Sample ID	8330 Pt 6 EXP 4117	8330 Pt 7 EXP 4118
Rep 1 Calib. Time	Dec 07, 2010 13:38:44	Dec 07, 2010 14:15:32

Calibration Report

Method:
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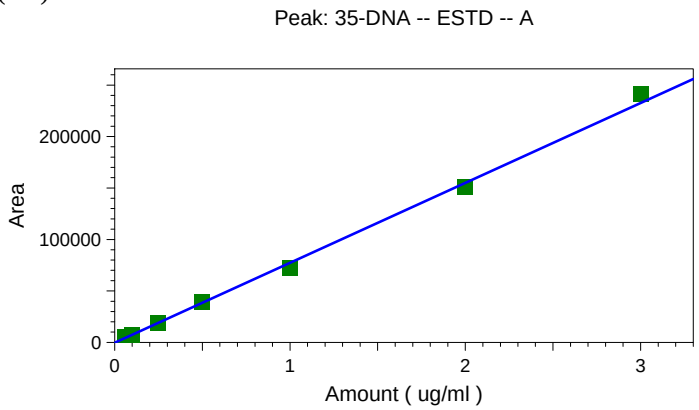
Print Time: Dec 09, 2010 12:05:01
User: red
Instrument: HPLC 2 (Offline)

35-DNA (A)
Average RF: 76421.1 RF StDev: 4252.71 RF %RSD: 5.56483
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 77620.3x - 287.468
Goodness of fit (r^2): 0.997396



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.06	0.1	0.25	0.5	1
Area	4925	7098	18529	39635	72481
RF	82083.33333 33333	70980	74116	79270	72481
Last Area Residual	-0.00715342	0.00485132	0.00758313	-0.0143303	0.0625072
Rep StDev					
Rep %RSD					
Rep 1 Area	4925	7098	18529	39635	72481
Rep 1 User	red	red	red	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\002.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\003.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\004.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\005.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\006.dat
Rep 1 Sample ID	8330 Pt 1 EXP 4112	8330 Pt 2 EXP 4113	8330 Pt 3 EXP 4114	8330 Pt 4 EXP 4115	8330 Pt 5 EXP 4116
Rep 1 Calib. Time	Dec 07, 2010 14:17:56	Dec 07, 2010 13:31:03	Dec 07, 2010 13:31:12	Dec 07, 2010 13:31:20	Dec 07, 2010 13:31:30

Calibration Report

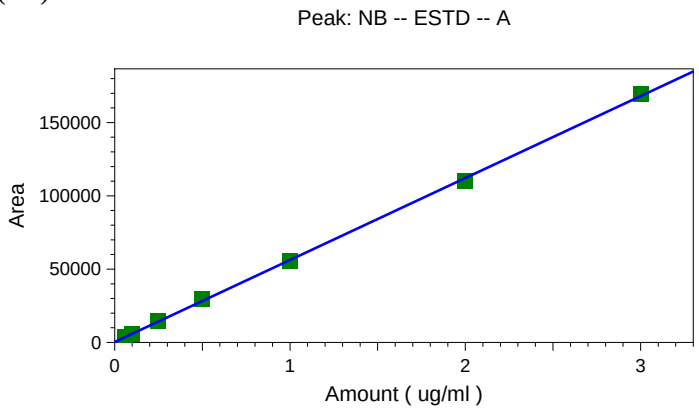
Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:05:01
User: red
Instrument: HPLC 2 (Offline)

	Level 6	Level 7
Amount	2	3
Area	150948	241631
RF	75474	80543.6666666667
Last Area Residual	0.0515988	-0.116691
Rep StDev		
Rep %RSD		
Rep 1 Area	150948	241631
Rep 1 User	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\007.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\008.dat
Rep 1 Sample ID	8330 Pt 6 EXP 4117	8330 Pt 7 EXP 4118
Rep 1 Calib. Time	Dec 07, 2010 13:38:44	Dec 07, 2010 14:15:32

Calibration Report

Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:05:03
User: red
Instrument: HPLC 2 (Offline)

NB (A)
Average RF: 57696.2 RF StDev: 3477.67 RF %RSD: 6.02756
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 55923.0x + 338.657
Goodness of fit (r^2): 0.999526



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.06	0.1	0.25	0.5	1
Area	3874	5489	14302	29944	55822
RF	64566.6666666667	54890	57208	59888	55822
Last Area Residual	-0.00321803	0.00790298	0.000311341	-0.0293946	0.00786211
Rep StDev					
Rep %RSD					
Rep 1 Area	3874	5489	14302	29944	55822
Rep 1 User	red	red	red	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\002.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\003.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\004.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\005.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\006.dat
Rep 1 Sample ID	8330 Pt 1 EXP 4112	8330 Pt 2 EXP 4113	8330 Pt 3 EXP 4114	8330 Pt 4 EXP 4115	8330 Pt 5 EXP 4116
Rep 1 Calib. Time	Dec 07, 2010 14:17:56	Dec 07, 2010 13:31:03	Dec 07, 2010 13:31:12	Dec 07, 2010 13:31:20	Dec 07, 2010 13:31:30

Calibration Report

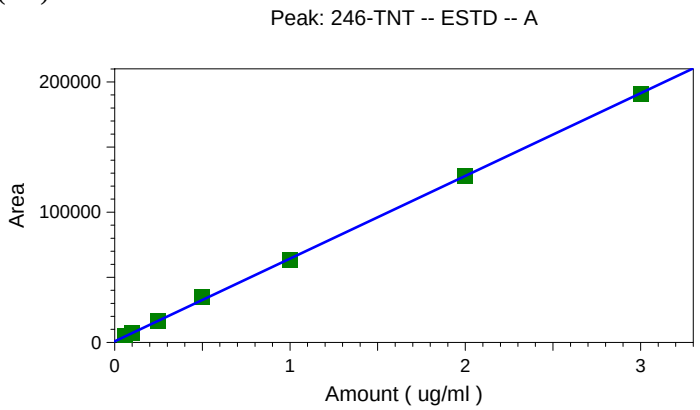
Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:05:03
User: red
Instrument: HPLC 2 (Offline)

	Level 6	Level 7
Amount	2	3
Area	109854	169716
RF	54927	56572
Last Area		
Residual	0.0416767	-0.0287591
Rep StDev		
Rep %RSD		
Rep 1 Area	109854	169716
Rep 1 User	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\007.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\008.dat
Rep 1 Sample ID	8330 Pt 6 EXP 4117	8330 Pt 7 EXP 4118
Rep 1 Calib. Time	Dec 07, 2010 13:38:44	Dec 07, 2010 14:15:32

Calibration Report

Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:05:05
User: red
Instrument: HPLC 2 (Offline)

246-TNT (A)
Average RF: 67885.5 RF StDev: 5764.22 RF %RSD: 8.49110
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 63513.8x + 874.273
Goodness of fit (r^2): 0.999740



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.06	0.1	0.25	0.5	1
Area	4735	7047	16110	35168	63581
RF	78916.66666 66667	70470	64440	70336	63581
Last Area Residual	-0.000785627	0.00281284	0.0101195	-0.0399413	0.0127072
Rep StDev					
Rep %RSD					
Rep 1 Area	4735	7047	16110	35168	63581
Rep 1 User	red	red	red	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\002.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\003.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\004.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\005.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\006.dat
Rep 1 Sample ID	8330 Pt 1 EXP 4112	8330 Pt 2 EXP 4113	8330 Pt 3 EXP 4114	8330 Pt 4 EXP 4115	8330 Pt 5 EXP 4116
Rep 1 Calib. Time	Dec 07, 2010 14:17:56	Dec 07, 2010 13:31:03	Dec 07, 2010 13:31:12	Dec 07, 2010 13:31:20	Dec 07, 2010 13:31:30

Calibration Report

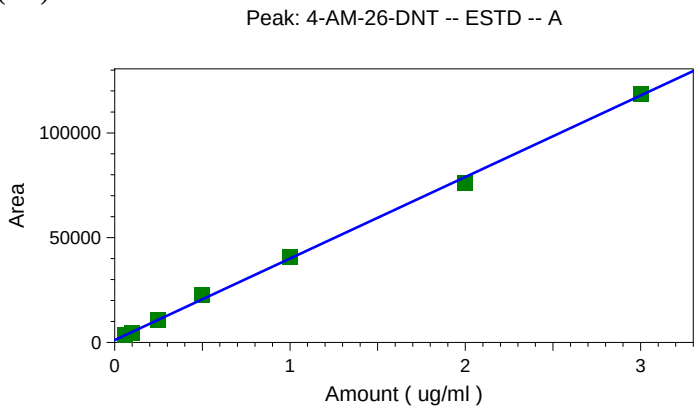
Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:05:05
User: red
Instrument: HPLC 2 (Offline)

	Level 6	Level 7
Amount	2	3
Area	127558	191027
RF	63779	63675.6666666667
Last Area Residual	0.0054145	0.00612004
Rep StDev		
Rep %RSD		
Rep 1 Area	127558	191027
Rep 1 User	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\007.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\008.dat
Rep 1 Sample ID	8330 Pt 6 EXP 4117	8330 Pt 7 EXP 4118
Rep 1 Calib. Time	Dec 07, 2010 13:38:44	Dec 07, 2010 14:15:32

Calibration Report

Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:05:06
User: red
Instrument: HPLC 2 (Offline)

4-AM-26-DNT (A)
Average RF: 44658.5 RF StDev: 8172.59 RF %RSD: 18.3002
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 38913.0x + 1112.02
Goodness of fit (r^2): 0.998696



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.06	0.1	0.25	0.5	1
Area	3735	4316	10824	22852	40553
RF	62250	43160	43296	45704	40553
Last Area Residual	-0.00740621	0.017663	0.000418117	-0.0586818	-0.0135684
Rep StDev					
Rep %RSD					
Rep 1 Area	3735	4316	10824	22852	40553
Rep 1 User	red	red	red	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\002.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\003.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\004.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\005.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\006.dat
Rep 1 Sample ID	8330 Pt 1 EXP 4112	8330 Pt 2 EXP 4113	8330 Pt 3 EXP 4114	8330 Pt 4 EXP 4115	8330 Pt 5 EXP 4116
Rep 1 Calib. Time	Dec 07, 2010 14:17:56	Dec 07, 2010 13:31:03	Dec 07, 2010 13:31:12	Dec 07, 2010 13:31:20	Dec 07, 2010 13:31:30

	Level 6	Level 7

Calibration Report

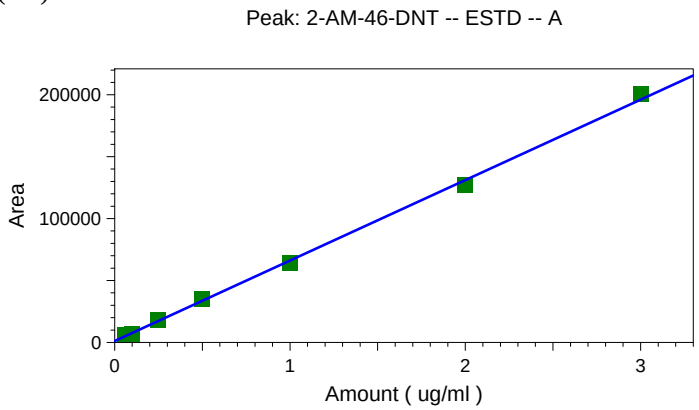
Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:05:06
User: red
Instrument: HPLC 2 (Offline)

Amount	2	3
Area	76140	118729
RF	38070	39576.3333333333
Last Area		
Residual	0.0719041	-0.0225634
Rep StDev		
Rep %RSD		
Rep 1 Area	76140	118729
Rep 1 User	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\007.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\008.dat
Rep 1 Sample ID	8330 Pt 6 EXP 4117	8330 Pt 7 EXP 4118
Rep 1 Calib. Time	Dec 07, 2010 13:38:44	Dec 07, 2010 14:15:32

Calibration Report

Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:05:08
User: red
Instrument: HPLC 2 (Offline)

2-AM-46-DNT (A)
Average RF: 70881.5 RF StDev: 10051.5 RF %RSD: 14.1807
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 65007.0x + 1102.52
Goodness of fit (r^2): 0.998498



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.06	0.1	0.25	0.5	1
Area	5563	6680	17805	35304	64472
RF	92716.66666 66667	66800	71220	70608	64472
Last Area Residual	-0.00861534	0.0142019	-0.00693339	-0.0261196	0.0251906
Rep StDev					
Rep %RSD					
Rep 1 Area	5563	6680	17805	35304	64472
Rep 1 User	red	red	red	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\002.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\003.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\004.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\005.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\006.dat
Rep 1 Sample ID	8330 Pt 1 EXP 4112	8330 Pt 2 EXP 4113	8330 Pt 3 EXP 4114	8330 Pt 4 EXP 4115	8330 Pt 5 EXP 4116
Rep 1 Calib. Time	Dec 07, 2010 14:17:56	Dec 07, 2010 13:31:03	Dec 07, 2010 13:31:12	Dec 07, 2010 13:31:20	Dec 07, 2010 13:31:30

Calibration Report

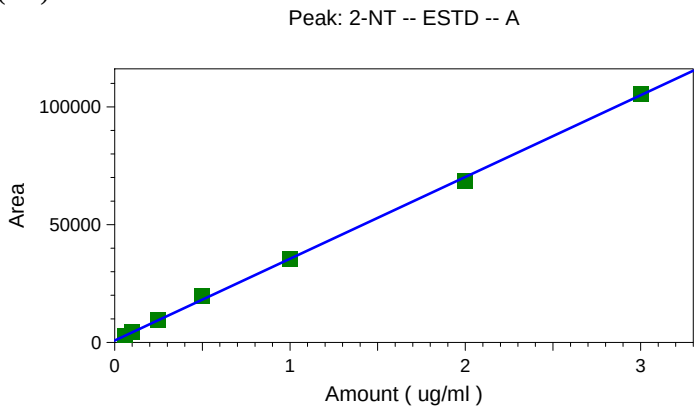
Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:05:08
User: red
Instrument: HPLC 2 (Offline)

	Level 6	Level 7
Amount	2	3
Area	126776	200897
RF	63388	66965.6666666667
Last Area Residual	0.0667714	-0.0734281
Rep StDev		
Rep %RSD		
Rep 1 Area	126776	200897
Rep 1 User	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\007.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\008.dat
Rep 1 Sample ID	8330 Pt 6 EXP 4117	8330 Pt 7 EXP 4118
Rep 1 Calib. Time	Dec 07, 2010 13:38:44	Dec 07, 2010 14:15:32

Calibration Report

Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:05:10
User: red
Instrument: HPLC 2 (Offline)

2-NT (A)
Average RF: 38441.7 RF StDev: 3906.98 RF %RSD: 10.1634
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 34714.0x + 763.437
Goodness of fit (r^2): 0.999383



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.06	0.1	0.25	0.5	1
Area	2680	4216	9623	19559	35203
RF	44666.6666666667	42160	38492	39118	35203
Last Area Residual	0.00478998	0.000542744	-0.00521559	-0.0414399	0.00790664
Rep StDev					
Rep %RSD					
Rep 1 Area	2680	4216	9623	19559	35203
Rep 1 User	red	red	red	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\002.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\003.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\004.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\005.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\006.dat
Rep 1 Sample ID	8330 Pt 1 EXP 4112	8330 Pt 2 EXP 4113	8330 Pt 3 EXP 4114	8330 Pt 4 EXP 4115	8330 Pt 5 EXP 4116
Rep 1 Calib. Time	Dec 07, 2010 14:17:56	Dec 07, 2010 13:31:03	Dec 07, 2010 13:31:12	Dec 07, 2010 13:31:20	Dec 07, 2010 13:31:30

Calibration Report

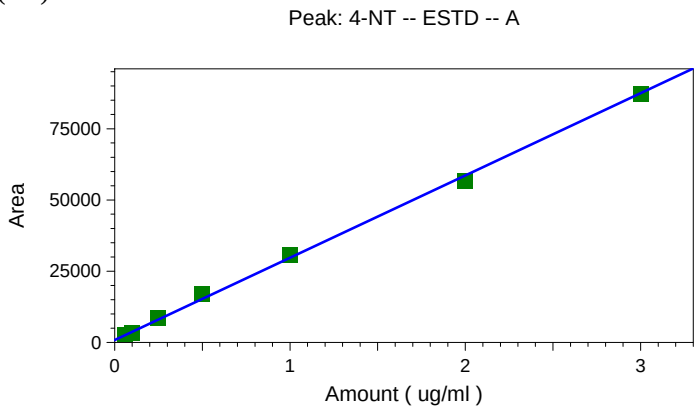
Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:05:10
User: red
Instrument: HPLC 2 (Offline)

	Level 6	Level 7
Amount	2	3
Area	68503	105602
RF	34251.5	35200.6666666667
Last Area Residual	0.0486404	-0.0200628
Rep StDev		
Rep %RSD		
Rep 1 Area	68503	105602
Rep 1 User	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\007.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\008.dat
Rep 1 Sample ID	8330 Pt 6 EXP 4117	8330 Pt 7 EXP 4118
Rep 1 Calib. Time	Dec 07, 2010 13:38:44	Dec 07, 2010 14:15:32

Calibration Report

Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:05:12
User: red
Instrument: HPLC 2 (Offline)

4-NT (A)
Average RF: 33029.2 RF StDev: 4212.87 RF %RSD: 12.7550
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 28890.0x + 846.082
Goodness of fit (r^2): 0.998544



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.06	0.1	0.25	0.5	1
Area	2439	3405	8614	17050	30596
RF	40650	34050	34456	34100	30596
Last Area					
Residual	0.00486272	0.0114256	-0.0188788	-0.0608825	-0.0297638
Rep StDev					
Rep %RSD					
Rep 1 Area	2439	3405	8614	17050	30596
Rep 1 User	red	red	red	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\002.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\003.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\004.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\005.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\006.dat
Rep 1 Sample ID	8330 Pt 1 EXP 4112	8330 Pt 2 EXP 4113	8330 Pt 3 EXP 4114	8330 Pt 4 EXP 4115	8330 Pt 5 EXP 4116
Rep 1 Calib. Time	Dec 07, 2010 14:17:56	Dec 07, 2010 13:31:03	Dec 07, 2010 13:31:12	Dec 07, 2010 13:31:20	Dec 07, 2010 13:31:30

	Level 6	Level 7

Calibration Report

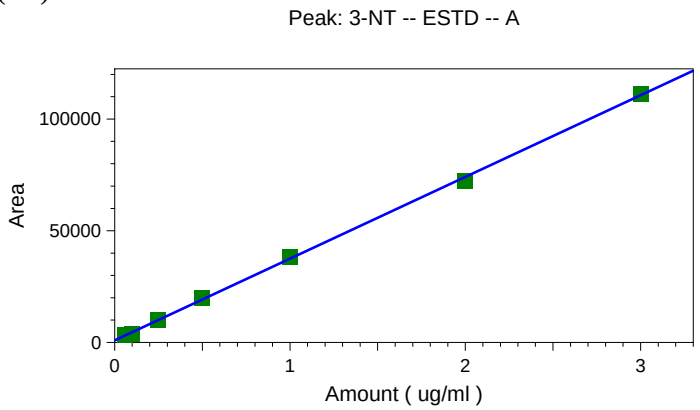
Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:05:12
User: red
Instrument: HPLC 2 (Offline)

Amount	2	3
Area	56493	87317
RF	28246.5	29105.6666666667
Last Area		
Residual	0.0738374	0.0068953
Rep StDev		
Rep %RSD		
Rep 1 Area	56493	87317
Rep 1 User	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\007.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\008.dat
Rep 1 Sample ID	8330 Pt 6 EXP 4117	8330 Pt 7 EXP 4118
Rep 1 Calib. Time	Dec 07, 2010 13:38:44	Dec 07, 2010 14:15:32

Calibration Report

Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:05:14
User: red
Instrument: HPLC 2 (Offline)

3-NT (A)
Average RF: 41130.2 RF StDev: 6900.34 RF %RSD: 16.7768
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 36592.7x + 873.529
Goodness of fit (r^2): 0.999470



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.06	0.1	0.25	0.5	1
Area	3380	3958	10162	20046	38008
RF	56333.33333	39580	40648	40092	38008
Last Area Residual	-0.00849656	0.0157079	-0.00383428	-0.0239431	-0.0148066
Rep StDev					
Rep %RSD					
Rep 1 Area	3380	3958	10162	20046	38008
Rep 1 User	red	red	red	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\002.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\003.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\004.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\005.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\006.dat
Rep 1 Sample ID	8330 Pt 1 EXP 4112	8330 Pt 2 EXP 4113	8330 Pt 3 EXP 4114	8330 Pt 4 EXP 4115	8330 Pt 5 EXP 4116
Rep 1 Calib. Time	Dec 07, 2010 14:17:56	Dec 07, 2010 13:31:03	Dec 07, 2010 13:31:12	Dec 07, 2010 13:31:20	Dec 07, 2010 13:31:30

Calibration Report

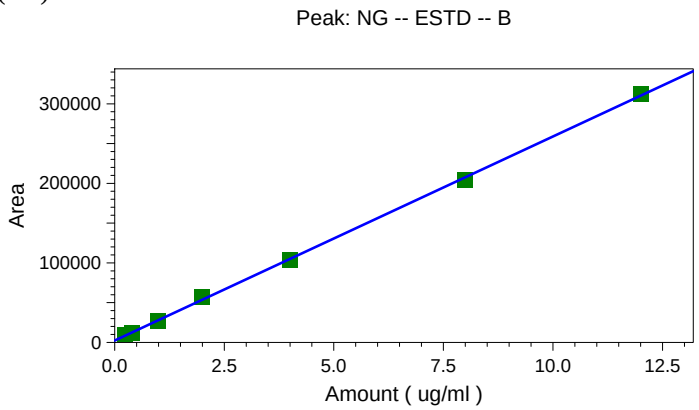
Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:05:14
User: red
Instrument: HPLC 2 (Offline)

	Level 6	Level 7
Amount	2	3
Area	72250	111376
RF	36125	37125.3333333333
Last Area Residual	0.0494319	-0.0197989
Rep StDev		
Rep %RSD		
Rep 1 Area	72250	111376
Rep 1 User	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\007.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\008.dat
Rep 1 Sample ID	8330 Pt 6 EXP 4117	8330 Pt 7 EXP 4118
Rep 1 Calib. Time	Dec 07, 2010 13:38:44	Dec 07, 2010 14:15:32

Calibration Report

Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:05:21
User: red
Instrument: HPLC 2 (Offline)

NG (B)
Average RF: 28563.5 RF StDev: 3675.47 RF %RSD: 12.8677
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 25662.8x + 2342.99
Goodness of fit (r^2): 0.999658



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.24	0.4	1	2	4
Area	8578	12391	27327	56655	103793
RF	35741.6666666667	30977.5	27327	28327.5	25948.25
Last Area Residual	-0.0029591	0.00846	0.0264499	-0.116372	0.0468046
Rep StDev					
Rep %RSD					
Rep 1 Area	8578	12391	27327	56655	103793
Rep 1 User	red	red	red	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\002.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\003.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\004.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\005.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\006.dat
Rep 1 Sample ID	8330 Pt 1 EXP 4112	8330 Pt 2 EXP 4113	8330 Pt 3 EXP 4114	8330 Pt 4 EXP 4115	8330 Pt 5 EXP 4116
Rep 1 Calib. Time	Dec 07, 2010 14:17:56	Dec 07, 2010 13:31:03	Dec 07, 2010 13:31:12	Dec 07, 2010 13:31:20	Dec 07, 2010 13:31:30

Calibration Report

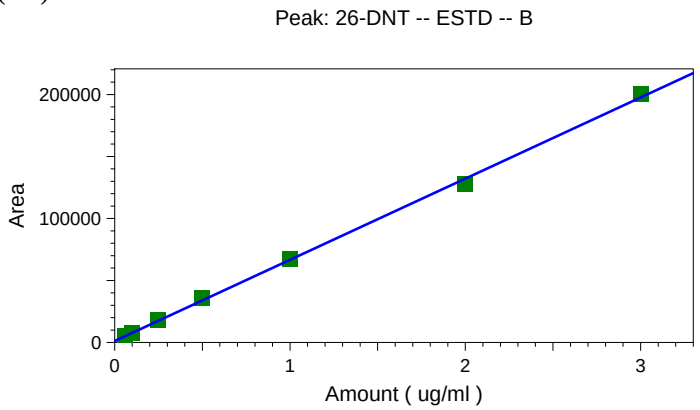
Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:05:21
User: red
Instrument: HPLC 2 (Offline)

	Level 6	Level 7
Amount	8	12
Area	204467	312771
RF	25558.375	26064.25
Last Area Residual	0.123848	-0.0964265
Rep StDev		
Rep %RSD		
Rep 1 Area	204467	312771
Rep 1 User	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\007.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\008.dat
Rep 1 Sample ID	8330 Pt 6 EXP 4117	8330 Pt 7 EXP 4118
Rep 1 Calib. Time	Dec 07, 2010 13:38:44	Dec 07, 2010 14:15:32

Calibration Report

Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:05:23
User: red
Instrument: HPLC 2 (Offline)

26-DNT (B)
Average RF: 71221.8 RF StDev: 7483.44 RF %RSD: 10.5072
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 65473.0x + 1152.11
Goodness of fit (r^2): 0.998945



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.06	0.1	0.25	0.5	1
Area	5206	7213	17748	35576	66853
RF	86766.66666 66667	72130	70992	71152	66853
Last Area Residual	-0.00191696	0.00742918	-0.00347683	-0.0257723	-0.0034806
Rep StDev					
Rep %RSD					
Rep 1 Area	5206	7213	17748	35576	66853
Rep 1 User	red	red	red	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\002.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\003.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\004.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\005.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\006.dat
Rep 1 Sample ID	8330 Pt 1 EXP 4112	8330 Pt 2 EXP 4113	8330 Pt 3 EXP 4114	8330 Pt 4 EXP 4115	8330 Pt 5 EXP 4116
Rep 1 Calib. Time	Dec 07, 2010 14:17:56	Dec 07, 2010 13:31:03	Dec 07, 2010 13:31:12	Dec 07, 2010 13:31:20	Dec 07, 2010 13:31:30

Calibration Report

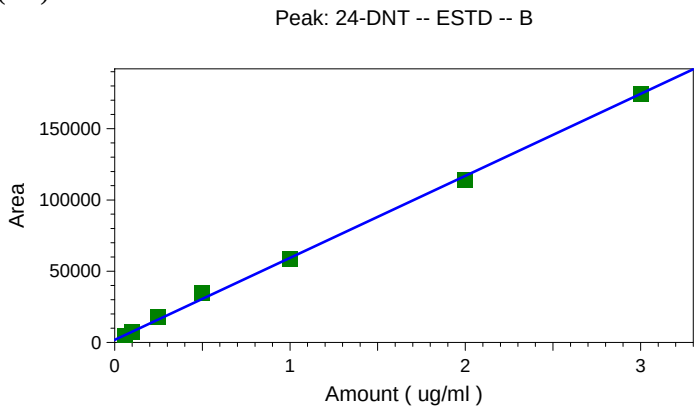
Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:05:23
User: red
Instrument: HPLC 2 (Offline)

	Level 6	Level 7
Amount	2	3
Area	127510	200711
RF	63755	66903.6666666667
Last Area		
Residual	0.0700765	-0.0479568
Rep StDev		
Rep %RSD		
Rep 1 Area	127510	200711
Rep 1 User	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\007.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\008.dat
Rep 1 Sample ID	8330 Pt 6 EXP 4117	8330 Pt 7 EXP 4118
Rep 1 Calib. Time	Dec 07, 2010 13:38:44	Dec 07, 2010 14:15:32

Calibration Report

Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:05:25
User: red
Instrument: HPLC 2 (Offline)

24-DNT (B)
Average RF: 66447.5 RF StDev: 8558.50 RF %RSD: 12.8801
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 57542.3x + 1826.67
Goodness of fit (r^2): 0.998775



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.06	0.1	0.25	0.5	1
Area	4728	7287	17638	34608	58682
RF	78800	72870	70552	69216	58682
Last Area Residual	0.0095793	0.00510771	-0.0247772	-0.0696904	0.0119395
Rep StDev					
Rep %RSD					
Rep 1 Area	4728	7287	17638	34608	58682
Rep 1 User	red	red	red	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\002.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\003.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\004.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\005.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\006.dat
Rep 1 Sample ID	8330 Pt 1 EXP 4112	8330 Pt 2 EXP 4113	8330 Pt 3 EXP 4114	8330 Pt 4 EXP 4115	8330 Pt 5 EXP 4116
Rep 1 Calib. Time	Dec 07, 2010 14:17:56	Dec 07, 2010 13:31:03	Dec 07, 2010 13:31:12	Dec 07, 2010 13:31:20	Dec 07, 2010 13:31:30

Level 6	Level 7

Calibration Report

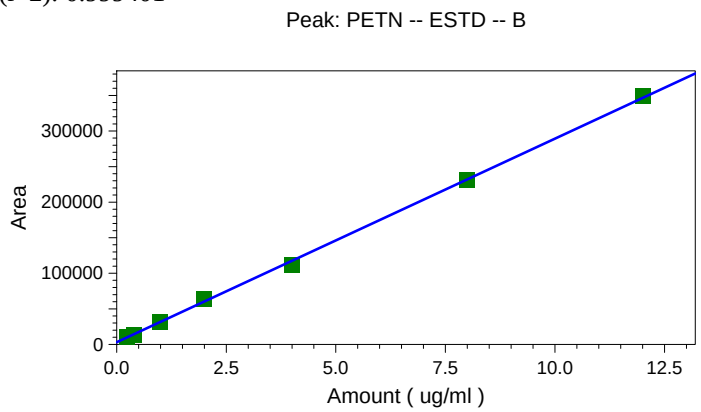
Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:05:25
User: red
Instrument: HPLC 2 (Offline)

Amount	2	3
Area	113635	174585
RF	56817.5	58195
Last Area		
Residual	0.0569385	-0.0022814
Rep StDev		
Rep %RSD		
Rep 1 Area	113635	174585
Rep 1 User	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\007.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\008.dat
Rep 1 Sample ID	8330 Pt 6 EXP 4117	8330 Pt 7 EXP 4118
Rep 1 Calib. Time	Dec 07, 2010 13:38:44	Dec 07, 2010 14:15:32

Calibration Report

Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:05:26
User: red
Instrument: HPLC 2 (Offline)

PETN (B)
Average RF: 32435.3 RF StDev: 5382.24 RF %RSD: 16.5938
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 28614.1x + 3015.33
Goodness of fit (r^2): 0.999401



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.24	0.4	1	2	4
Area	10480	13645	31078	64250	111872
RF	43666.66666 66667	34112.5	31078	32125	27968
Last Area Residual	-0.020874	0.0285161	0.0192703	-0.14002	0.195694
Rep StDev					
Rep %RSD					
Rep 1 Area	10480	13645	31078	64250	111872
Rep 1 User	red	red	red	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\002.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\003.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\004.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\005.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\006.dat
Rep 1 Sample ID	8330 Pt 1 EXP 4112	8330 Pt 2 EXP 4113	8330 Pt 3 EXP 4114	8330 Pt 4 EXP 4115	8330 Pt 5 EXP 4116
Rep 1 Calib. Time	Dec 07, 2010 14:17:56	Dec 07, 2010 13:31:03	Dec 07, 2010 13:31:12	Dec 07, 2010 13:31:20	Dec 07, 2010 13:31:30

Calibration Report

Method:
C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Print Time: Dec 09, 2010 12:05:26
User: red
Instrument: HPLC 2 (Offline)

	Level 6	Level 7
Amount	8	12
Area	231664	349665
RF	28958	29138.75
Last Area		
Residual	0.00922193	-0.114659
Rep StDev		
Rep %RSD		
Rep 1 Area	231664	349665
Rep 1 User	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\007.dat	C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\008.dat
Rep 1 Sample ID	8330 Pt 6 EXP 4117	8330 Pt 7 EXP 4118
Rep 1 Calib. Time	Dec 07, 2010 13:38:44	Dec 07, 2010 14:15:32

QC Check Standard Report

Sequence : C:\Instarch\Sequence\HPLC 2\8330A_B\120710expic-primary.seq
User : red
Printed : Dec 09, 2010 12:02:56

File	Sample ID	Acquired
C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\002.dat	8330 Pt 1 EXP 4112	Dec 09, 2010 12:02:56

A

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
HMX	0.060	0.065	7.836	20.000	Passed
RDX	0.060	0.063	5.000	20.000	Passed
12-DNB (SSTD)	12.000	12.716	5.964	20.000	Passed
135-TNB	0.060	0.068	13.107	20.000	Passed
13-DNB	0.060	0.068	13.831	20.000	Passed
TETRYL	0.060	0.054	9.569	20.000	Passed
35-DNA	0.060	0.067	11.922	20.000	Passed
NB	0.060	0.063	5.363	20.000	Passed
246-TNT	0.060	0.061	1.309	20.000	Passed
4-AM-26-DNT	0.060	0.067	12.344	20.000	Passed
2-AM-46-DNT	0.060	0.069	14.359	20.000	Passed
2-NT	0.060	0.055	7.983	20.000	Passed
4-NT	0.060	0.055	8.105	20.000	Passed
3-NT	0.060	0.068	14.161	20.000	Passed

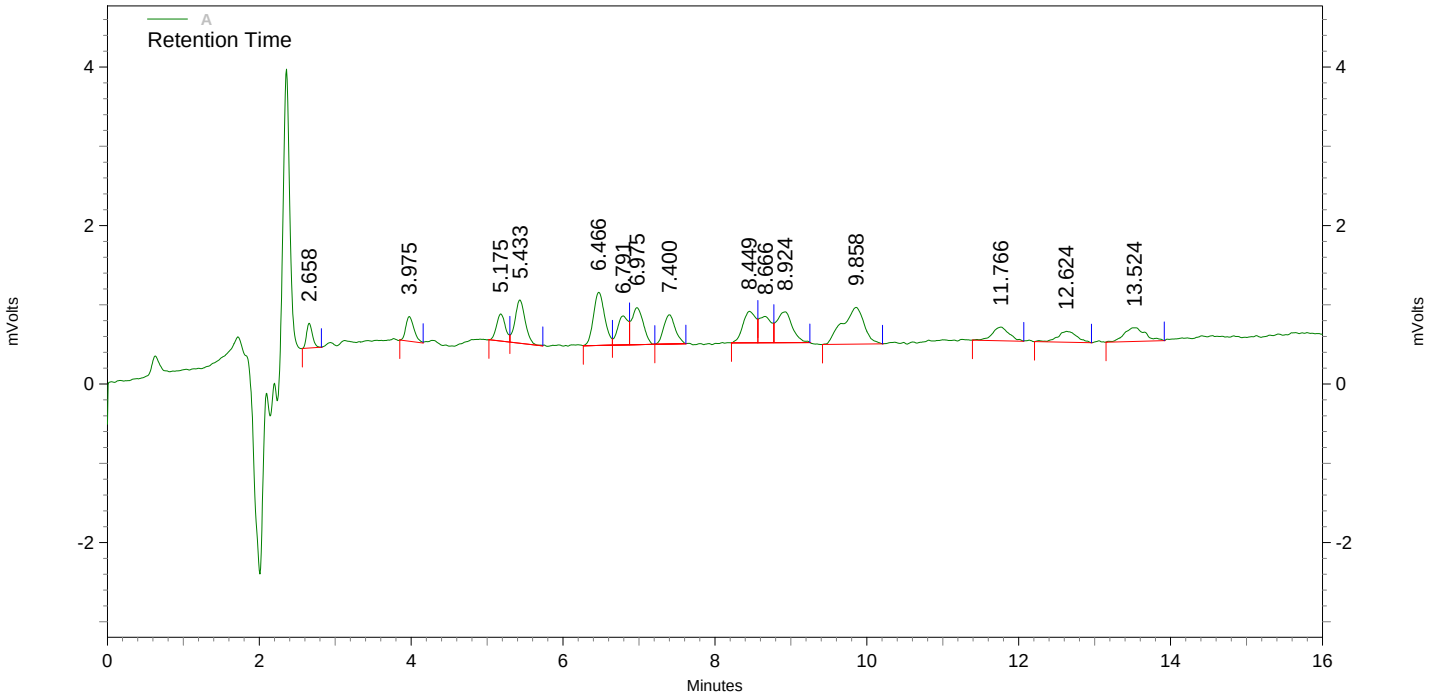
B

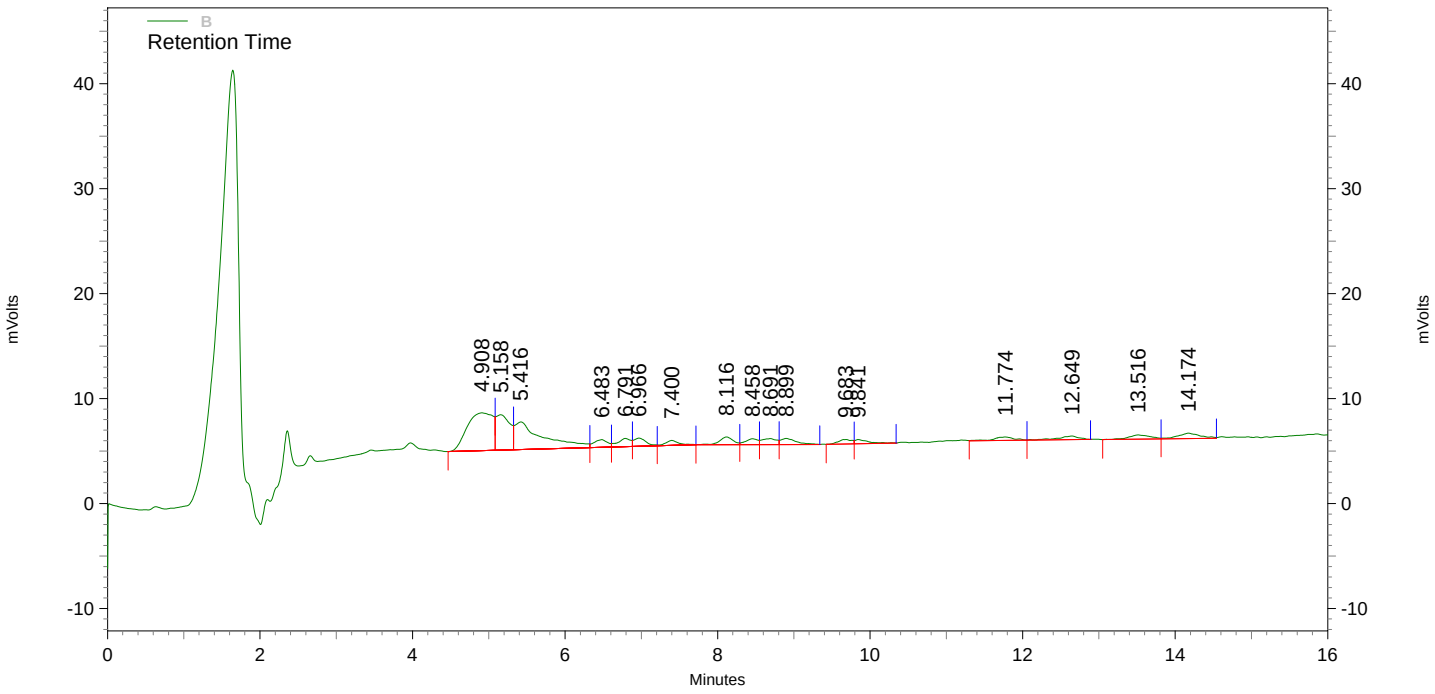
Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
NG	0.240	0.243	1.233	20.000	Passed
26-DNT	0.060	0.062	3.195	20.000	Passed
24-DNT	0.060	0.050	15.966	20.000	Passed
PETN	0.240	0.261	8.697	20.000	Passed

Explosives - 8330

RED
12/10/2010

File: C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\002.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Sample ID: 8330 Pt 1 EXP 4112
Acquired: Dec 07, 2010 11:25:17
Data Summary: {Data Description}





RED

12/10/2010

A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX	2.658	1670	**0.065**
RDX	3.975	2310	**0.063**
12-DNB (SSTD)	5.175	2780	**12.716**
135-TNB	5.433	5055	**0.068**
13-DNB	6.466	6916	**0.068**
TETRYL	6.791	3529	**0.054**
35-DNA	6.975	4925	**0.067**
NB	7.400	3874	**0.063**
246-TNT	8.449	4735	**0.061**
4-AM-26-DNT	8.666	3735	**0.067**
2-AM-46-DNT	8.924	5563	**0.069**
2-NT	11.766	2680	**0.055**
4-NT	12.624	2439	**0.055**
3-NT	13.524	3380	**0.068**

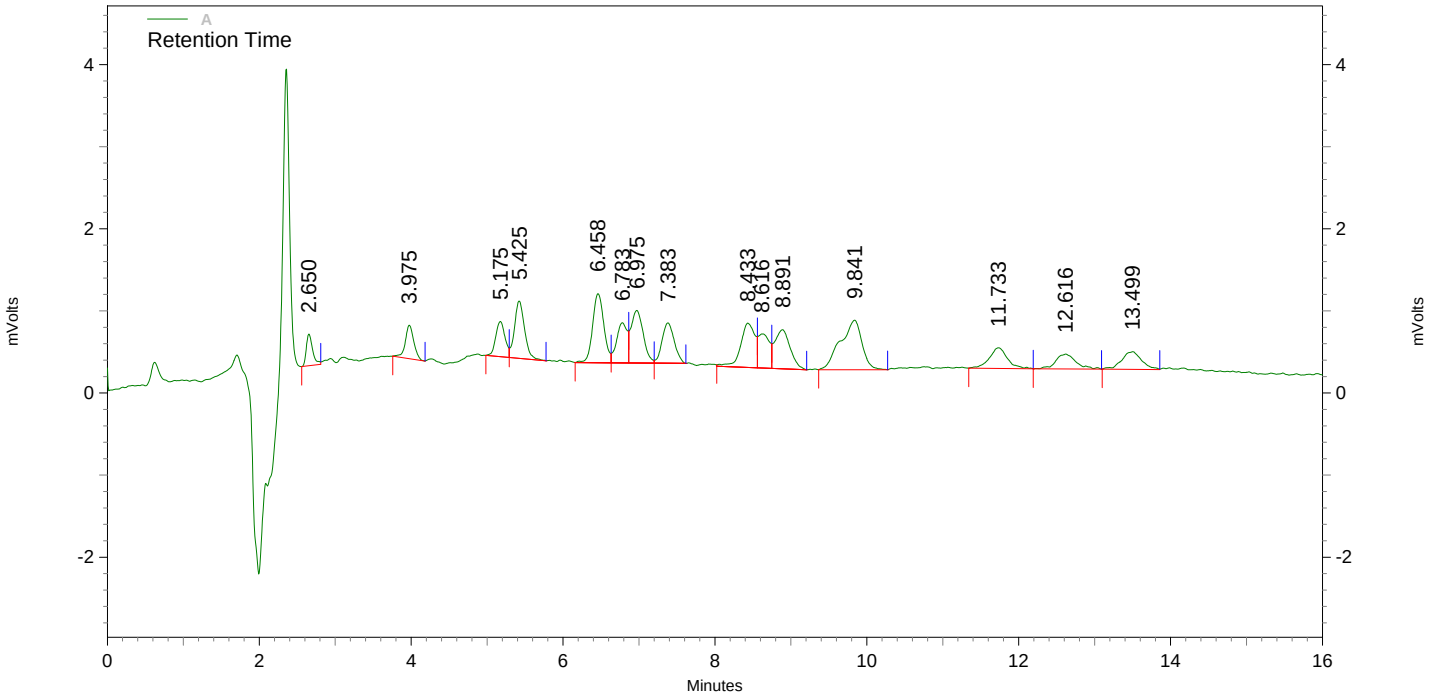
B Results

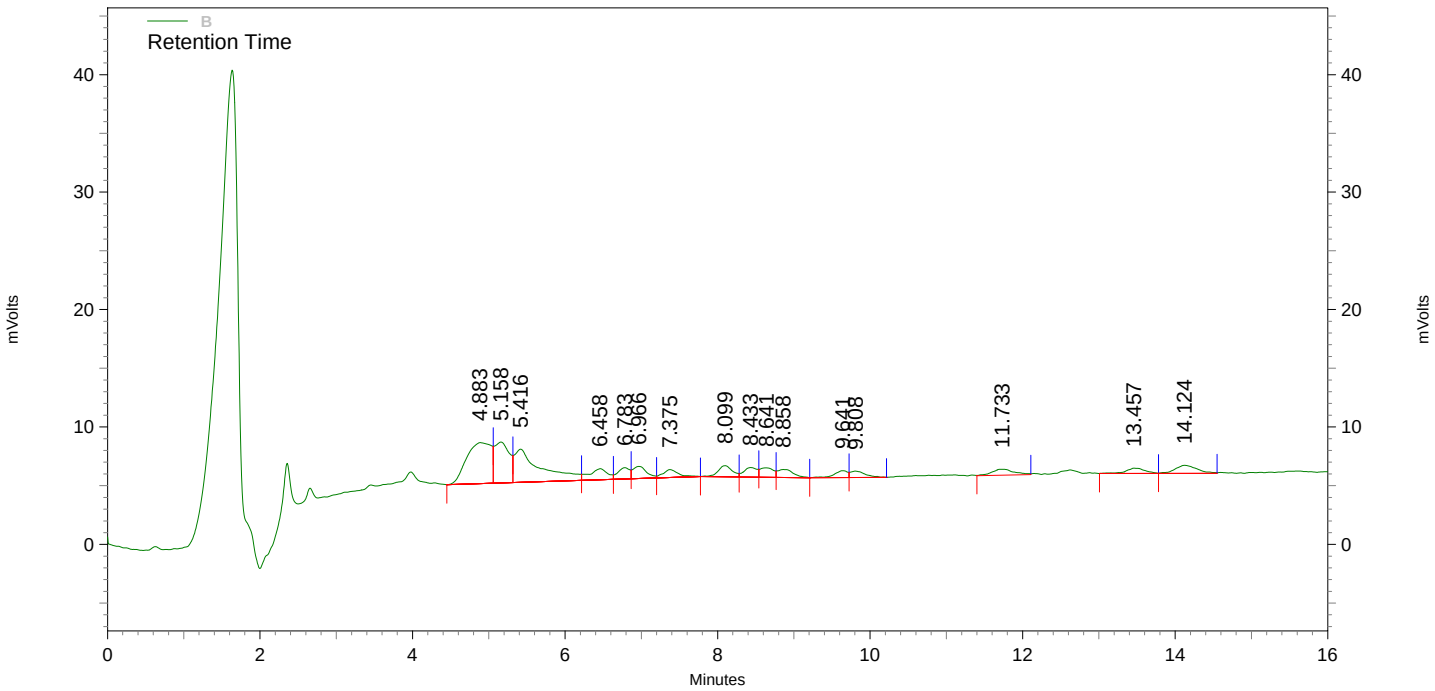
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG	8.116	8578	**0.243**
26-DNT	9.683	5206	**0.062**
24-DNT	9.841	4728	**0.050**
PETN	14.174	10480	**0.261**

Explosives - 8330

RED
12/10/2010

File: C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\003.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Sample ID: 8330 Pt 2 EXP 4113
Acquired: Dec 07, 2010 11:48:29
Data Summary: {Data Description}





A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX	2.650	2240	**0.100 CAL**
RDX	3.975	3190	**0.100 CAL**
12-DNB (SSTD)	5.175	3650	**20.000 CAL**
135-TNB	5.425	6438	**0.100 CAL**
13-DNB	6.458	8663	**0.100 CAL**
TETRYL	6.783	4809	**0.100 CAL**
35-DNA	6.975	7098	**0.100 CAL**
NB	7.383	5489	**0.100 CAL**
246-TNT	8.433	7047	**0.100 CAL**
4-AM-26-DNT	8.616	4316	**0.100 CAL**
2-AM-46-DNT	8.891	6680	**0.100 CAL**
2-NT	11.733	4216	**0.100 CAL**
4-NT	12.616	3405	**0.100 CAL**
3-NT	13.499	3958	**0.100 CAL**

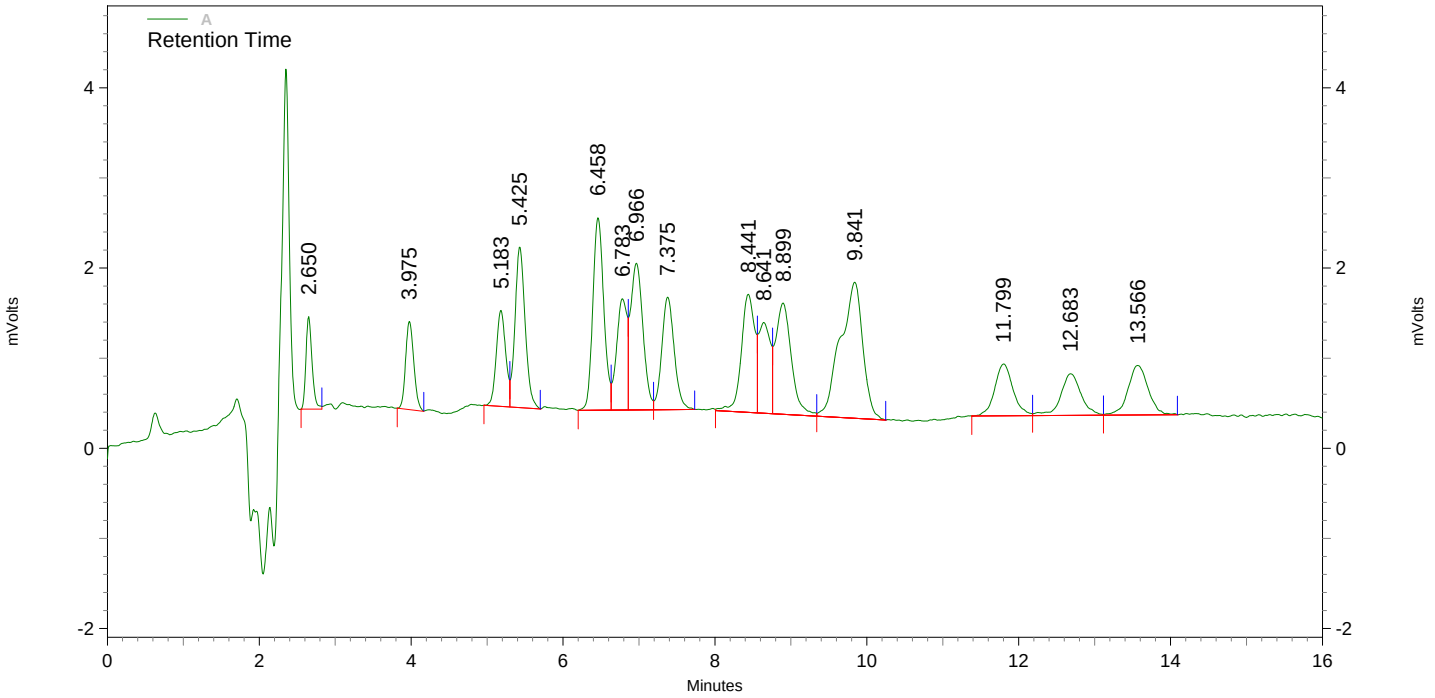
B Results

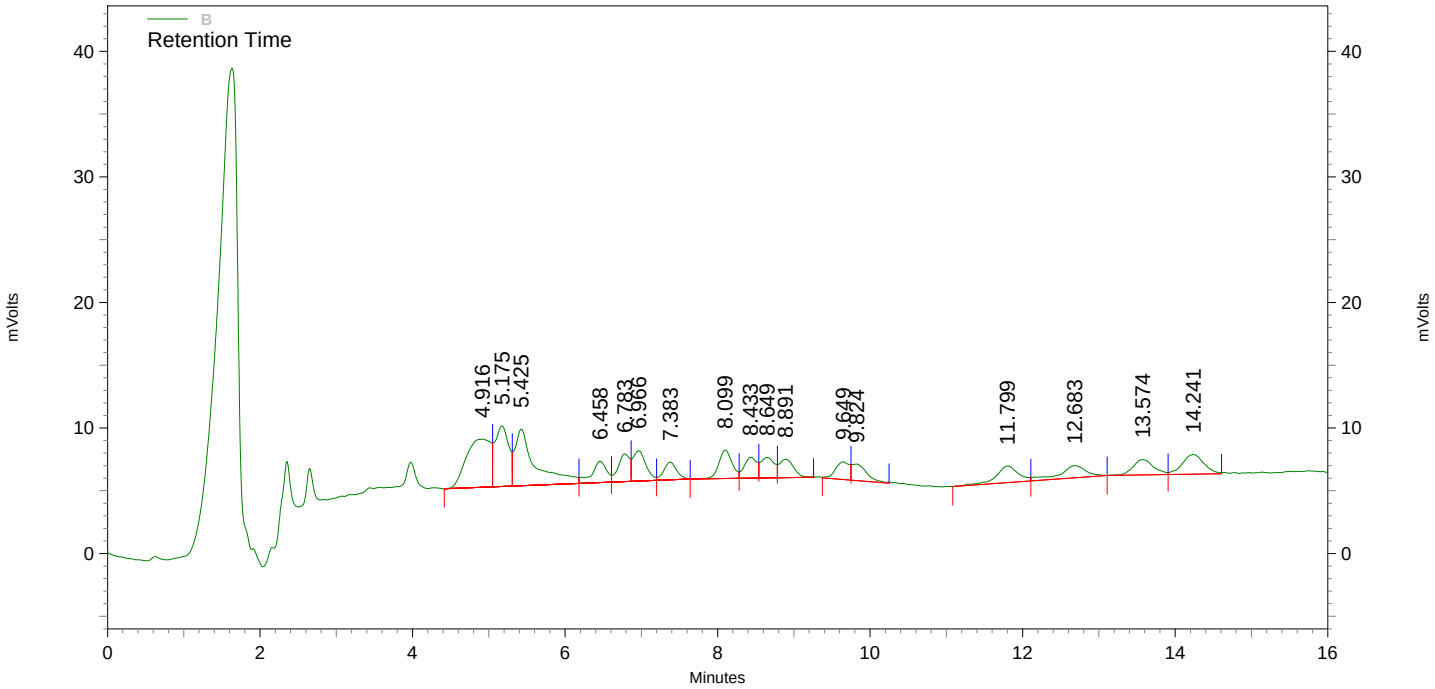
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG	8.099	12391	**0.400 CAL**
26-DNT	9.641	7213	**0.100 CAL**
24-DNT	9.808	7287	**0.100 CAL**
PETN	14.124	13645	**0.400 CAL**

Explosives - 8330

RED
12/10/2010

File: C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\004.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Sample ID: 8330 Pt 3 EXP 4114
Acquired: Dec 07, 2010 12:11:41
Data Summary: {Data Description}





A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX	2.650	5773	**0.250 CAL**
RDX	3.975	7354	**0.250 CAL**
12-DNB (SSTD)	5.183	9184	**50.000 CAL**
135-TNB	5.425	16587	**0.250 CAL**
13-DNB	6.458	21497	**0.250 CAL**
TETRYL	6.783	11844	**0.250 CAL**
35-DNA	6.966	18529	**0.250 CAL**
NB	7.375	14302	**0.250 CAL**
246-TNT	8.441	16110	**0.250 CAL**
4-AM-26-DNT	8.641	10824	**0.250 CAL**
2-AM-46-DNT	8.899	17805	**0.250 CAL**
2-NT	11.799	9623	**0.250 CAL**
4-NT	12.683	8614	**0.250 CAL**
3-NT	13.566	10162	**0.250 CAL**

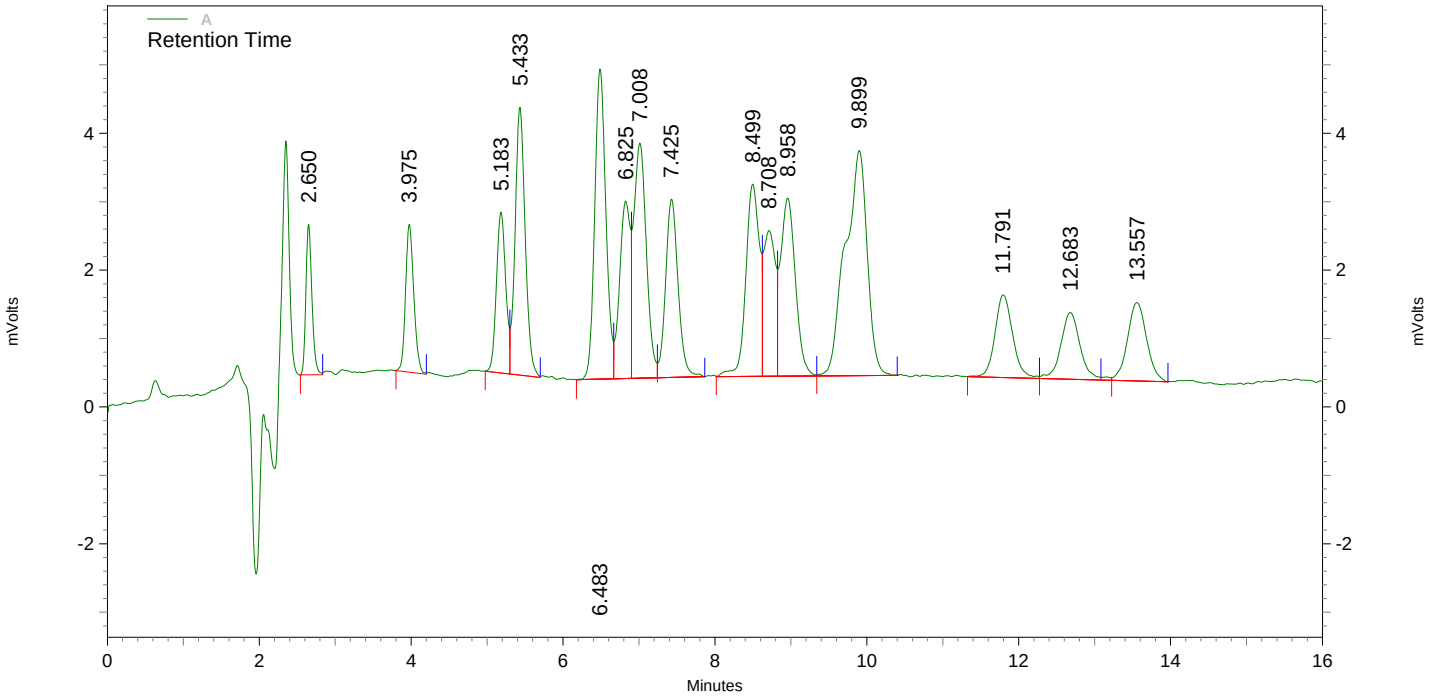
B Results

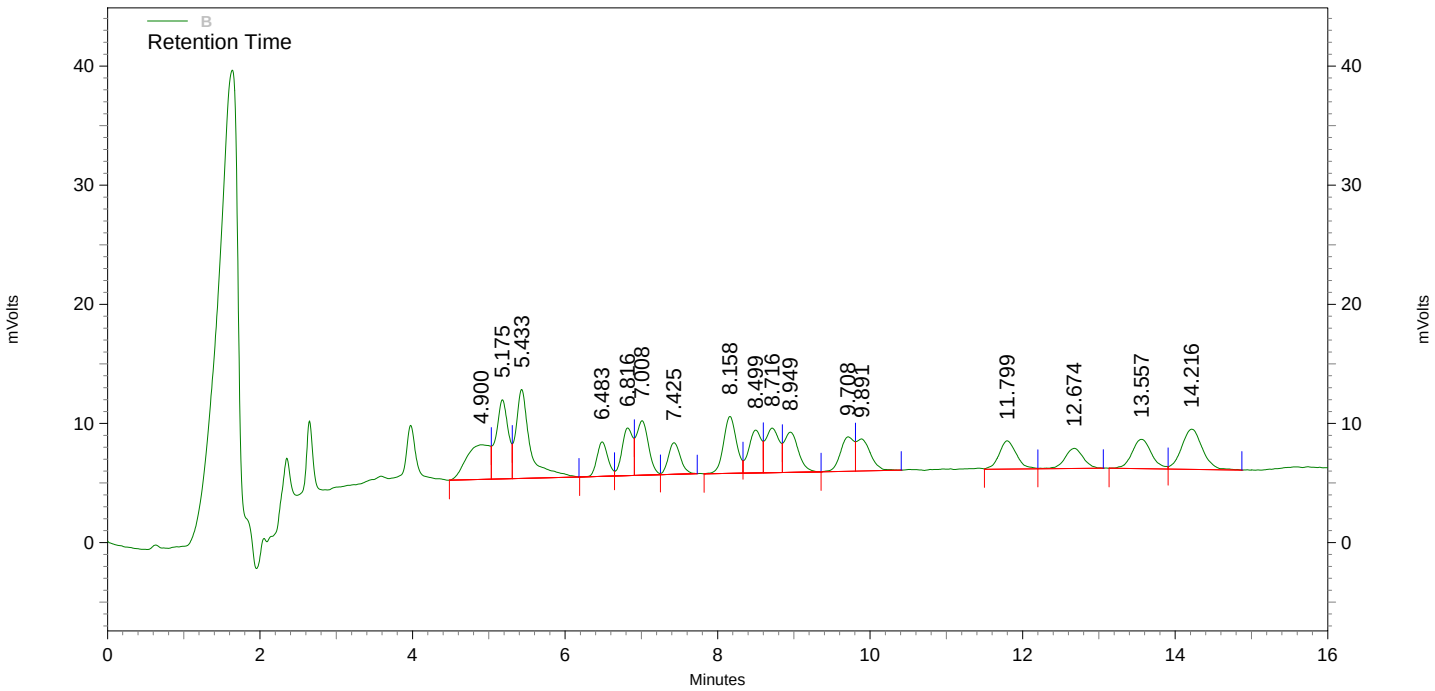
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG	8.099	27327	**1.000 CAL**
26-DNT	9.649	17748	**0.250 CAL**
24-DNT	9.824	17638	**0.250 CAL**
PETN	14.241	31078	**1.000 CAL**

Explosives - 8330

RED
12/10/2010

File: C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\005.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Sample ID: 8330 Pt 4 EXP 4115
Acquired: Dec 07, 2010 12:34:51
Data Summary: {Data Description}





12/10/2010

A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX	2.650	12243	**0.500 CAL**
RDX	3.975	16272	**0.500 CAL**
12-DNB (SSTD)	5.183	20068	**100.000 CAL**
135-TNB	5.433	36258	**0.500 CAL**
13-DNB	6.483	46326	**0.500 CAL**
TETRYL	6.825	25119	**0.500 CAL**
35-DNA	7.008	39635	**0.500 CAL**
NB	7.425	29944	**0.500 CAL**
246-TNT	8.499	35168	**0.500 CAL**
4-AM-26-DNT	8.708	22852	**0.500 CAL**
2-AM-46-DNT	8.958	35304	**0.500 CAL**
2-NT	11.791	19559	**0.500 CAL**
4-NT	12.683	17050	**0.500 CAL**
3-NT	13.557	20046	**0.500 CAL**

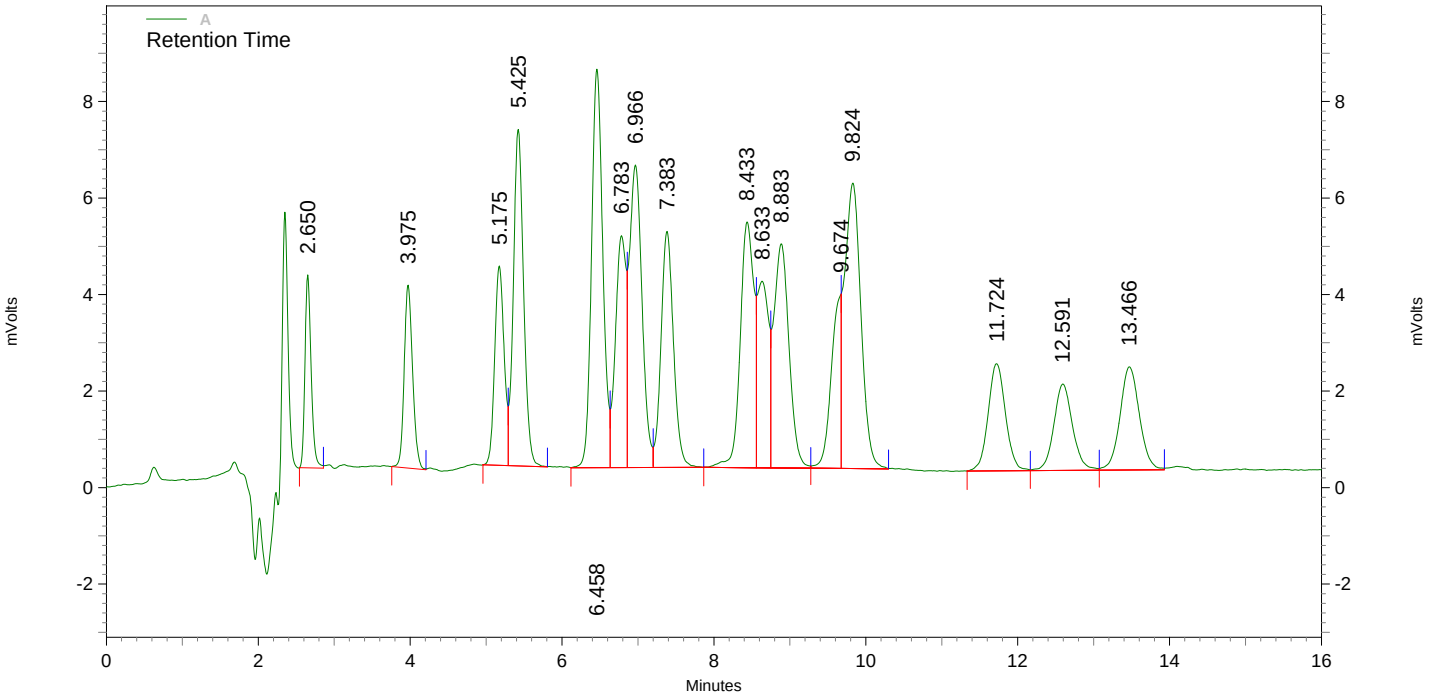
B Results

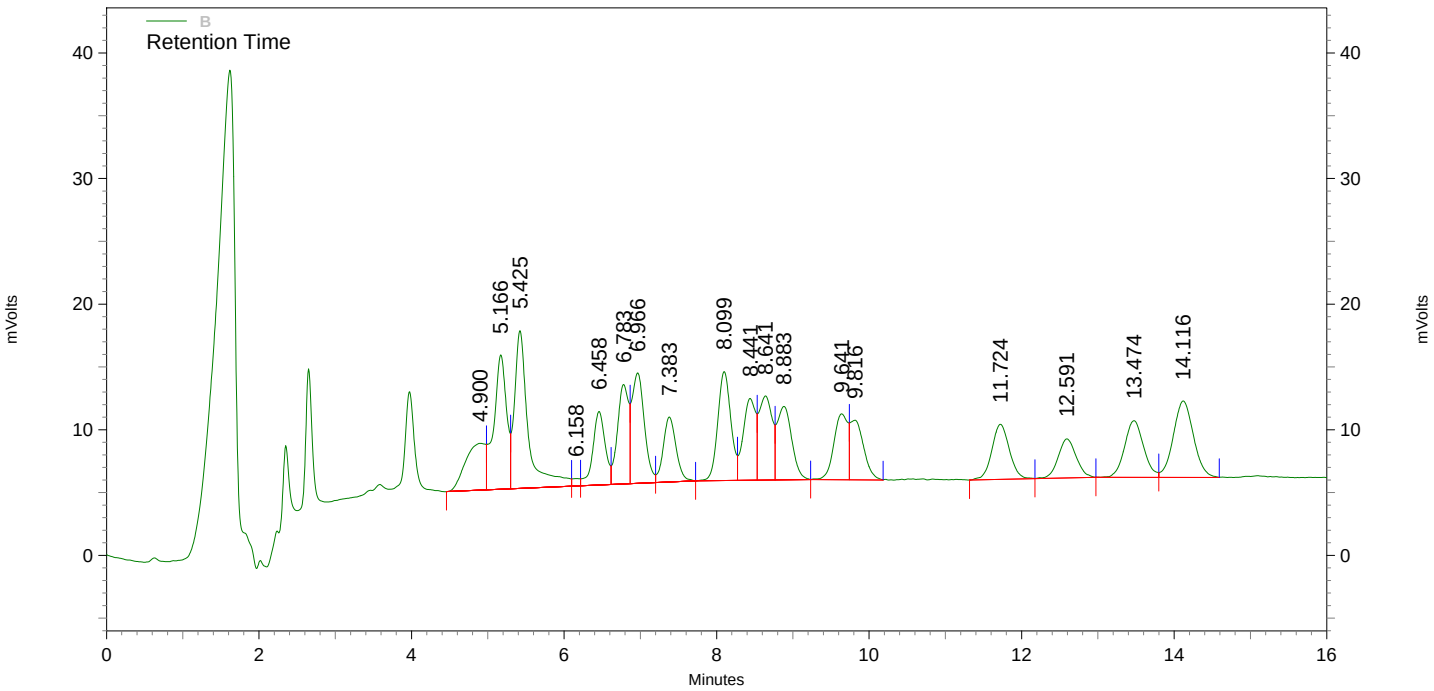
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG	8.158	56655	**2.000 CAL**
26-DNT	9.708	35576	**0.500 CAL**
24-DNT	9.891	34608	**0.500 CAL**
PETN	14.216	64250	**2.000 CAL**

Explosives - 8330

RED
12/10/2010

File: C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\006.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Sample ID: 8330 Pt 5 EXP 4116
Acquired: Dec 07, 2010 12:58:03
Data Summary: {Data Description}





12/10/2010

A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX	2.650	22762	**1.000 CAL**
RDX	3.975	29209	**1.000 CAL**
12-DNB (SSTD)	5.175	35627	**200.000 CAL**
135-TNB	5.425	65318	**1.000 CAL**
13-DNB	6.458	85054	**1.000 CAL**
TETRYL	6.783	46725	**1.000 CAL**
35-DNA	6.966	72481	**1.000 CAL**
NB	7.383	55822	**1.000 CAL**
246-TNT	8.433	63581	**1.000 CAL**
4-AM-26-DNT	8.633	40553	**1.000 CAL**
2-AM-46-DNT	8.883	64472	**1.000 CAL**
2-NT	11.724	35203	**1.000 CAL**
4-NT	12.591	30596	**1.000 CAL**
3-NT	13.466	38008	**1.000 CAL**

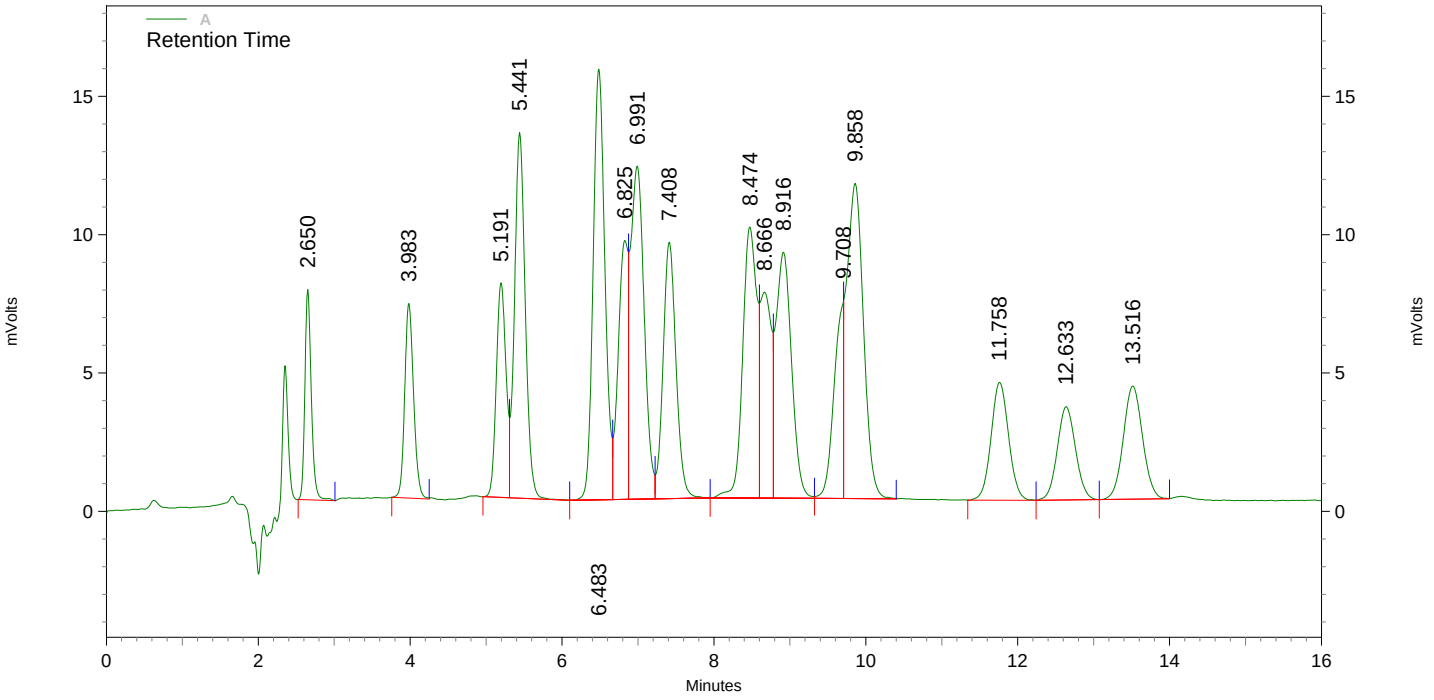
B Results

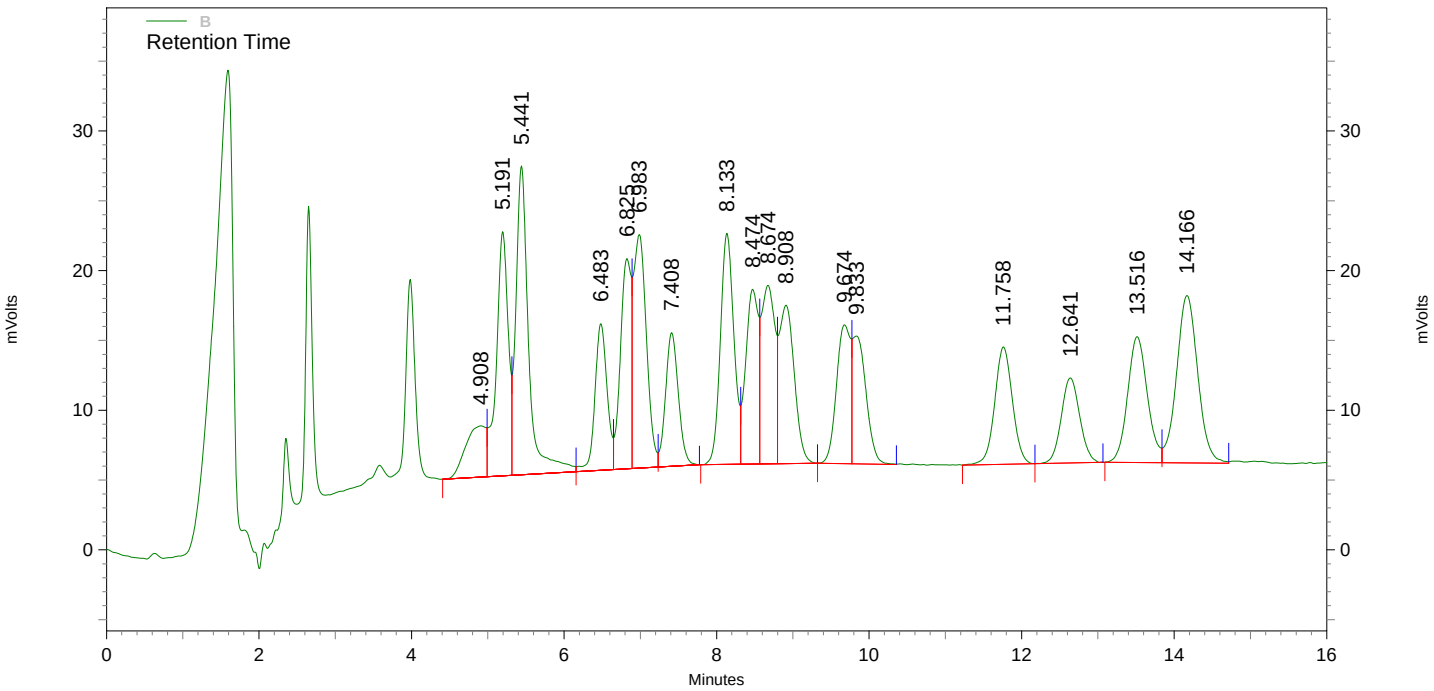
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG	8.099	103793	**4.000 CAL**
26-DNT	9.641	66853	**1.000 CAL**
24-DNT	9.816	58682	**1.000 CAL**
PETN	14.116	111872	**4.000 CAL**

Explosives - 8330

RED
12/10/2010

File: C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\007.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Sample ID: 8330 Pt 6 EXP 4117
Acquired: Dec 07, 2010 13:21:13
Data Summary: {Data Description}





A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX	2.650	44817	**2.000 CAL**
RDX	3.983	57285	**2.000 CAL**
12-DNB (SSTD)	5.191	69101	**400.000 CAL**
135-TNB	5.441	130488	**2.000 CAL**
13-DNB	6.483	167563	**2.000 CAL**
TETRYL	6.825	82428	**2.000 CAL**
35-DNA	6.991	150948	**2.000 CAL**
NB	7.408	109854	**2.000 CAL**
246-TNT	8.474	127558	**2.000 CAL**
4-AM-26-DNT	8.666	76140	**2.000 CAL**
2-AM-46-DNT	8.916	126776	**2.000 CAL**
2-NT	11.758	68503	**2.000 CAL**
4-NT	12.633	56493	**2.000 CAL**
3-NT	13.516	72250	**2.000 CAL**

B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG	8.133	204467	**8.000 CAL**
26-DNT	9.674	127510	**2.000 CAL**
24-DNT	9.833	113635	**2.000 CAL**
PETN	14.166	231664	**8.000 CAL**

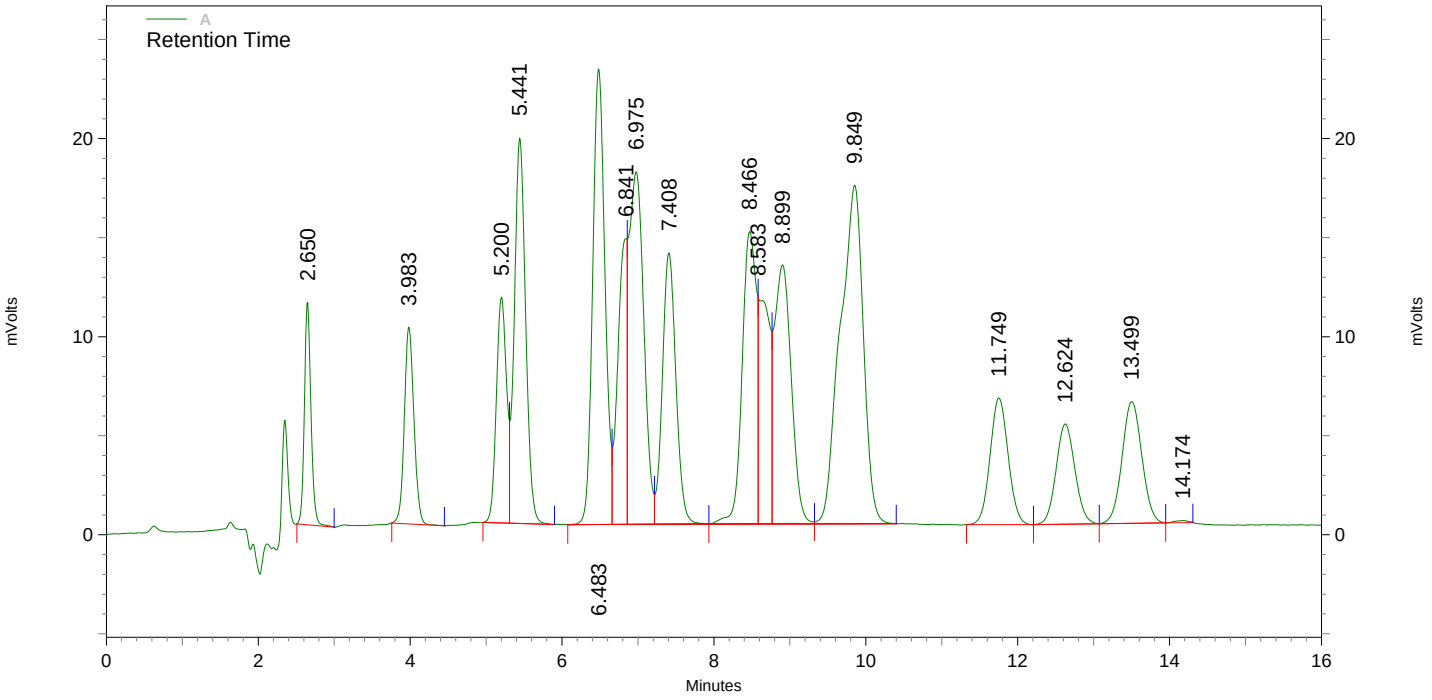
After Manual Integration

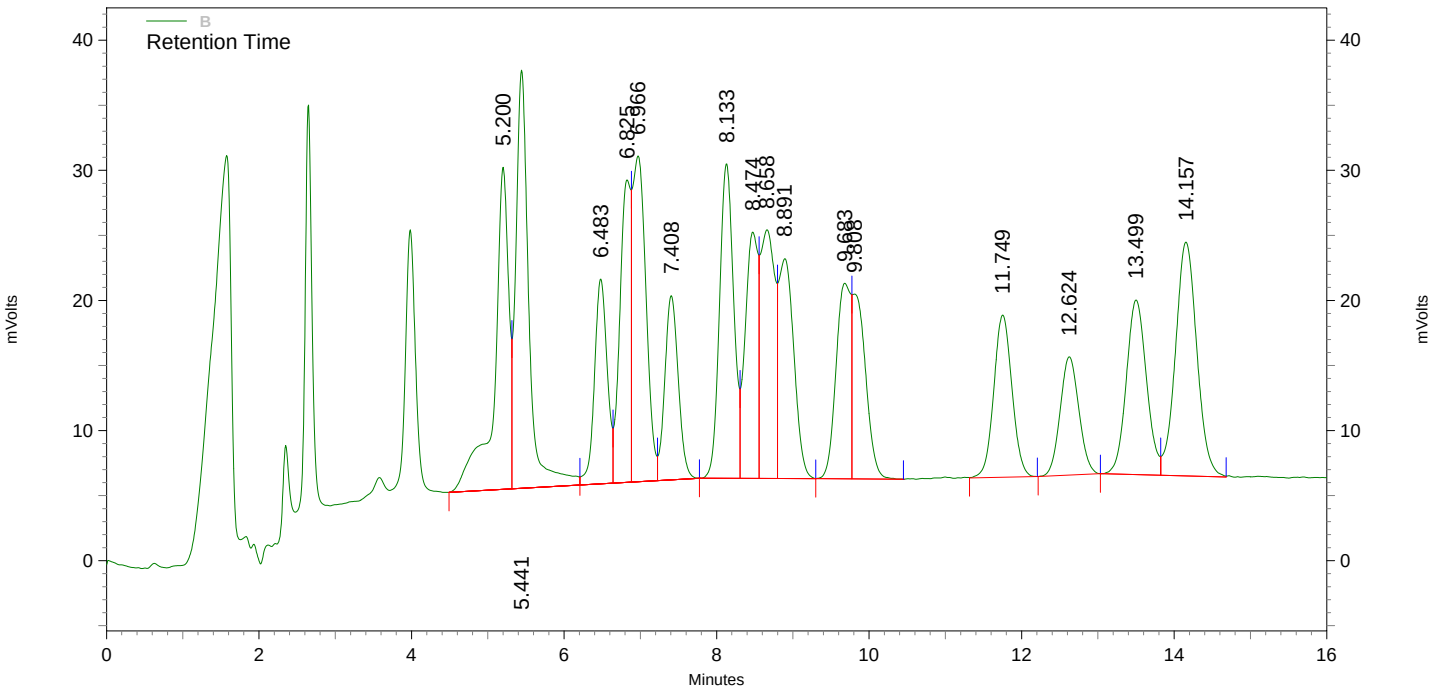
RED 12/10/2010

JJY 12/10/2010

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\008.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Sample ID: 8330 Pt 7 EXP 4118
Acquired: Dec 07, 2010 13:44:22
Data Summary: Reason #3 applies to data. A split was added to separate 246-TNT from 4-AM-26-DNT. RED 12/7/2010





After Manual Integration

JJY 12/10/2010

RED 12/10/2010

A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX	2.650	67909	**3.000 CAL**
RDX	3.983	87135	**3.000 CAL**
12-DNB (SSTD)	5.200	105864	**600.000 CAL**
135-TNB	5.441	201463	**3.000 CAL**
13-DNB	6.483	257544	**3.000 CAL**
TETRYL	6.841	119834	**3.000 CAL**
35-DNA	6.975	241631	**3.000 CAL**
NB	7.408	169716	**3.000 CAL**
246-TNT	8.466	191027	**3.000 CAL**
4-AM-26-DNT	8.583	118729	**3.000 CAL**
2-AM-46-DNT	8.899	200897	**3.000 CAL**
2-NT	11.749	105602	**3.000 CAL**
4-NT	12.624	87317	**3.000 CAL**
3-NT	13.499	111376	**3.000 CAL**

B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG	8.133	312771	**12.000 CAL**
26-DNT	9.683	200711	**3.000 CAL**
24-DNT	9.808	174585	**3.000 CAL**
PETN	14.157	349665	**12.000 CAL**

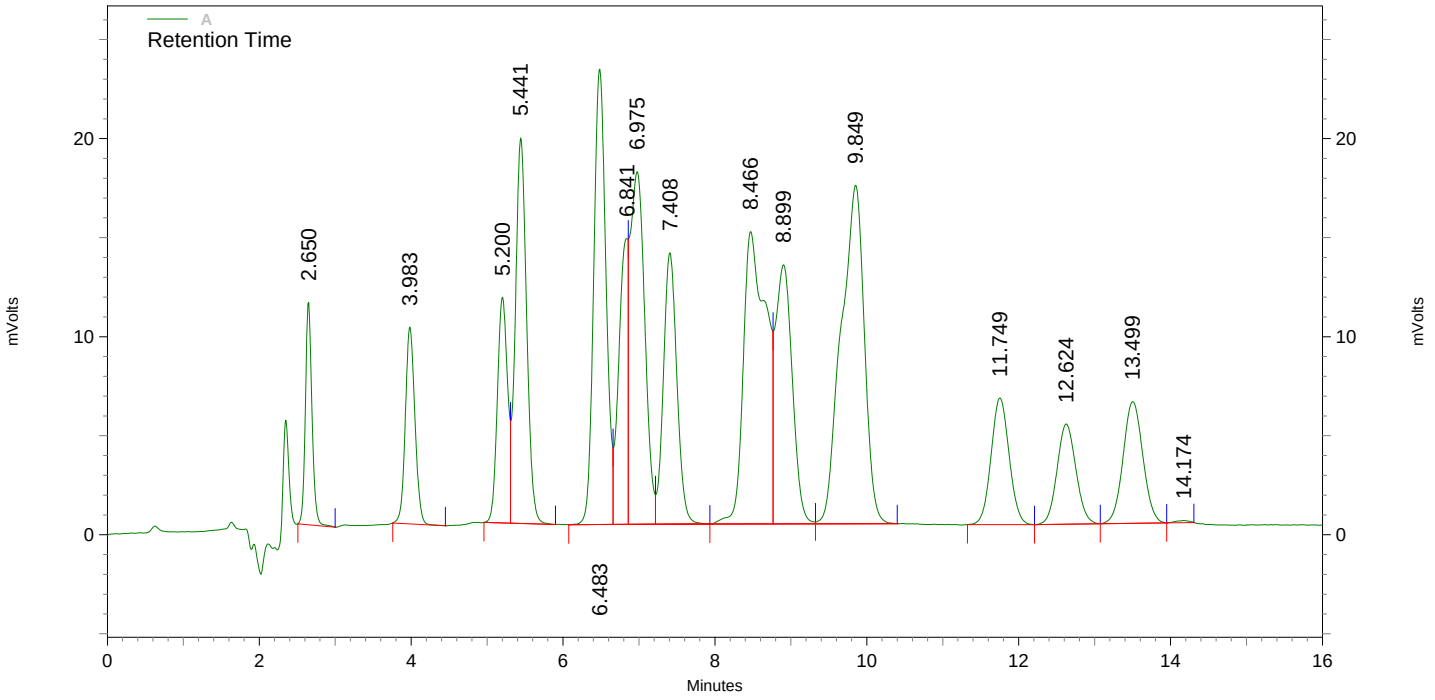
Before Manual Integration

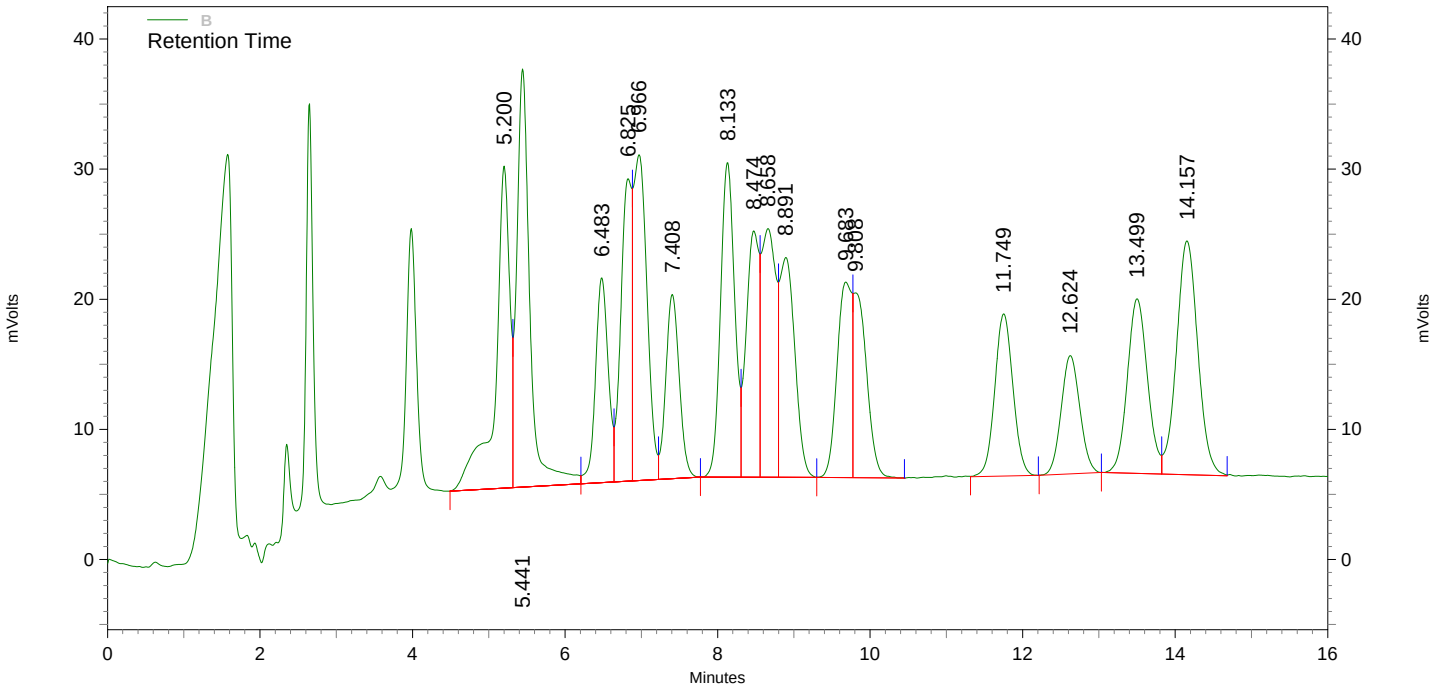
RED 12/10/2010

JJY 12/10/2010

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\008.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Sample ID: 8330 Pt 7 EXP 4118
Acquired: Dec 07, 2010 13:44:22
Data Summary: {Data Description}





Before Manual Integration

JJY 12/10/2010

12/10/2010

A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX	2.650	67909	**3.001**
RDX	3.983	87135	**3.006**
12-DNB (SSTD)	5.200	105864	**601.103**
135-TNB	5.441	201463	**3.036**
13-DNB	6.483	257544	**3.028**
TETRYL	6.841	119834	**2.883**
35-DNA	6.975	241631	**3.117**
NB	7.408	169716	**3.029**
246-TNT	8.466	309756	**4.619**
4-AM-26-DNT			**0.000 BDL**
2-AM-46-DNT	8.899	200897	**3.080**
2-NT	11.749	105602	**3.020**
4-NT	12.624	87317	**2.993**
3-NT	13.499	111376	**3.020**

B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG	8.133	312771	**12.091**
26-DNT	9.683	200711	**3.048**
24-DNT	9.808	174585	**2.996**
PETN	14.157	349665	**12.100**

QC Check Standard Report

Pag RED
12/10/2010

Sequence : C:\Instarch\Sequence\HPLC 2\8330A_B\120710expic-primary.seq
User : red
Printed : Dec 09, 2010 12:03:11

File	Sample ID	Acquired
C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\009.dat	8330 ICV EXP 4119	Dec 09, 2010 12:03:11

A

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
HMX	0.500	0.511	2.188	15.000	Passed
RDX	0.500	0.514	2.869	15.000	Passed
12-DNB (SSTD)	100.000	106.005	6.005	15.000	Passed
135-TNB	0.500	0.506	1.140	15.000	Passed
13-DNB	0.500	0.534	6.868	15.000	Passed
TETRYL	0.500	0.435	13.041	15.000	Passed
35-DNA	0.500	0.523	4.680	15.000	Passed
NB	0.500	0.506	1.201	15.000	Passed
246-TNT	0.500	0.520	4.002	15.000	Passed
4-AM-26-DNT	0.500	0.509	1.889	15.000	Passed
2-AM-46-DNT	0.500	0.504	0.784	15.000	Passed
2-NT	0.500	0.501	0.211	15.000	Passed
4-NT	0.500	0.486	2.756	15.000	Passed
3-NT	0.500	0.500	0.034	15.000	Passed

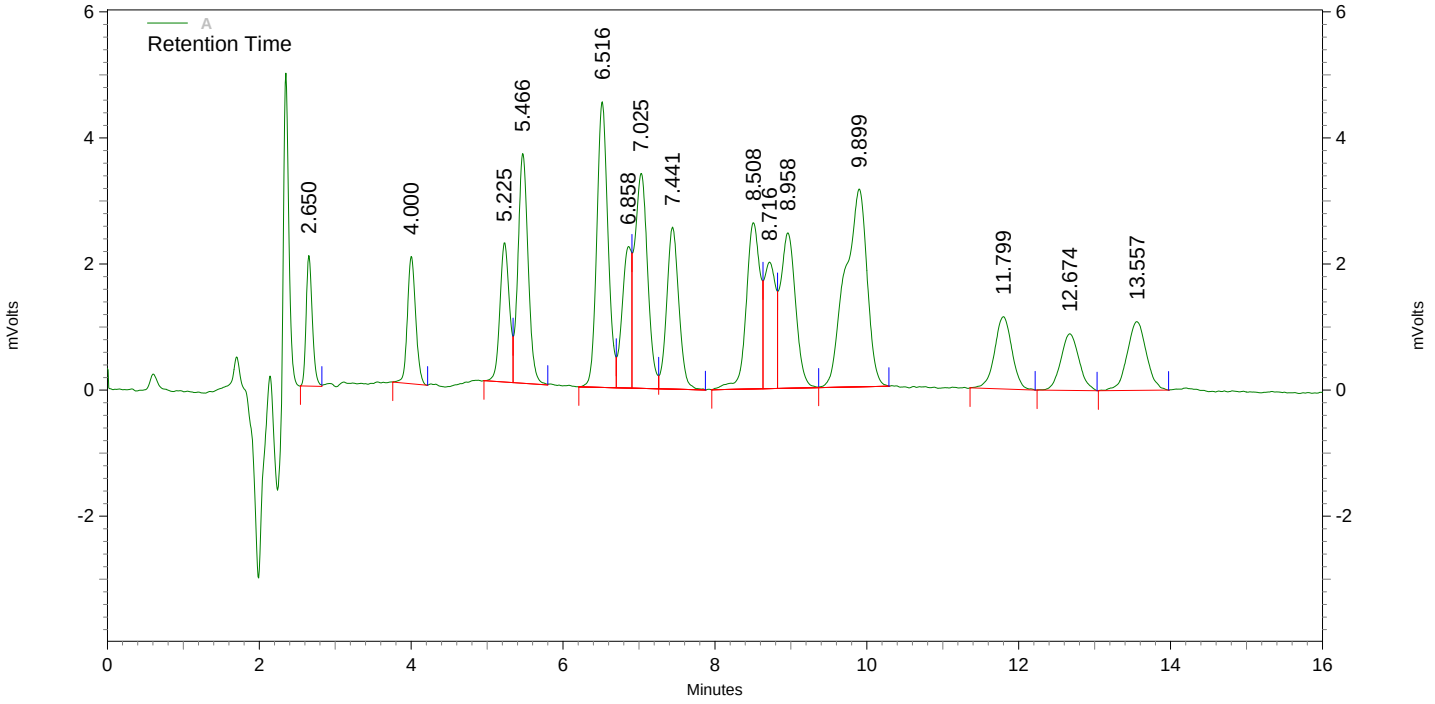
B

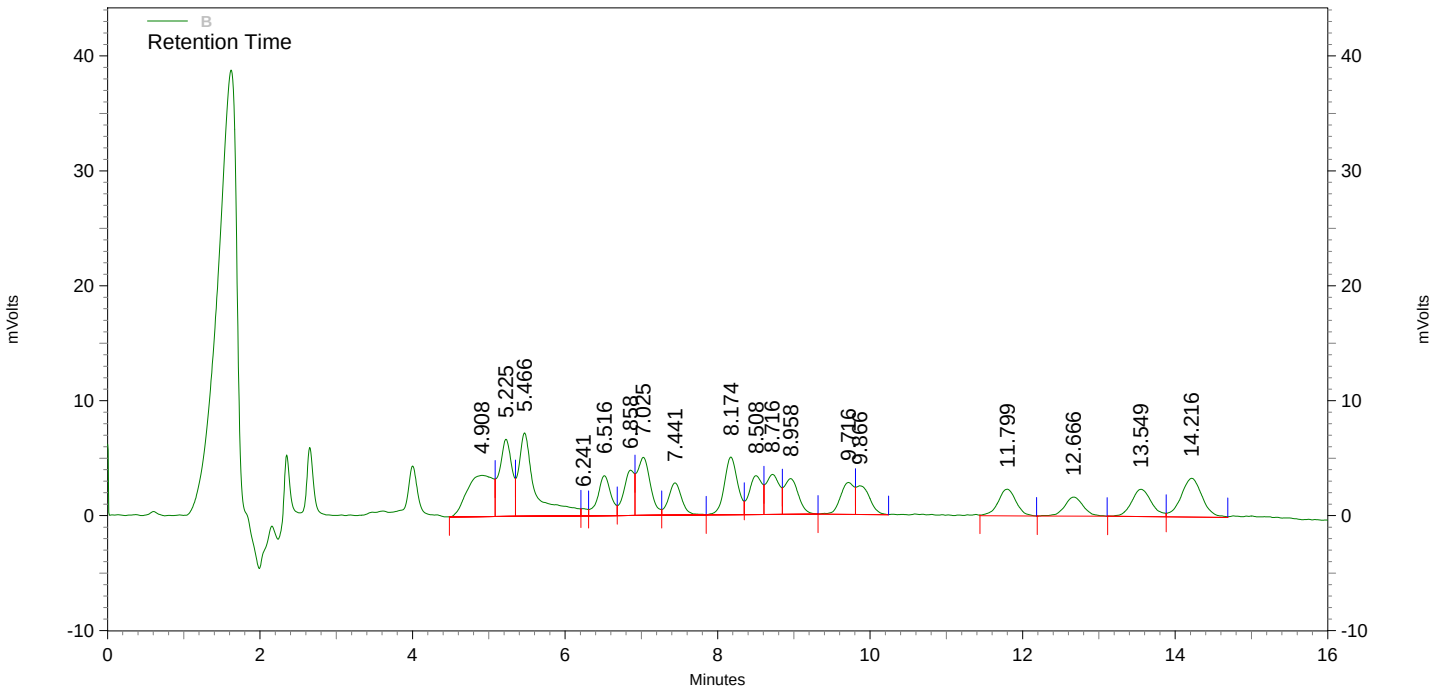
Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
NG	2.000	2.284	14.224	15.000	Passed
26-DNT	0.500	0.508	1.516	15.000	Passed
24-DNT	0.500	0.505	1.012	15.000	Passed
PETN	2.000	2.169	8.465	15.000	Passed

RED
12/10/2010

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\8330A_B\120710expic-primary\009.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\120710expic-primary.met
Sample ID: 8330 ICV EXP 4119
Acquired: Dec 07, 2010 14:24:49
Data Summary: {Data Description}





RED
12/10/2010

A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX	2.650	11735	**0.511**
RDX	4.000	15317	**0.514**
12-DNB (SSTD)	5.225	19124	**106.005**
135-TNB	5.466	34025	**0.506**
13-DNB	6.516	46383	**0.534**
TETRYL	6.858	19173	**0.435**
35-DNA	7.025	40339	**0.523**
NB	7.441	28636	**0.506**
246-TNT	8.508	33902	**0.520**
4-AM-26-DNT	8.716	20936	**0.509**
2-AM-46-DNT	8.958	33861	**0.504**
2-NT	11.799	18157	**0.501**
4-NT	12.674	14893	**0.486**
3-NT	13.557	19176	**0.500**

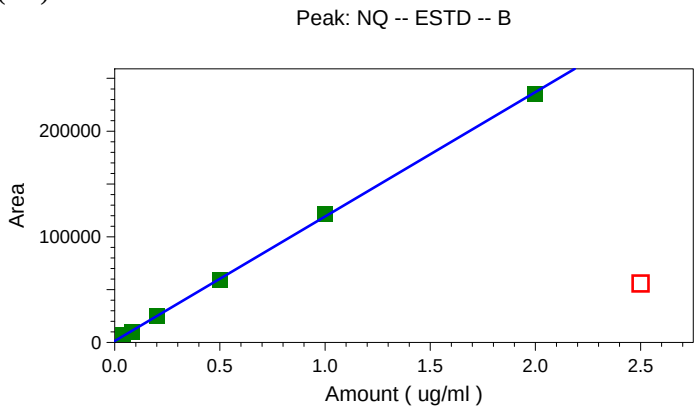
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG	8.174	60969	**2.284**
26-DNT	9.716	34385	**0.508**
24-DNT	9.866	30889	**0.505**
PETN	14.216	65088	**2.169**

Calibration Report

Method:
C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121510NQic-primary.met
Print Time: Dec 23, 2010 14:57:30
User: red
Instrument: HPLC 2 (Offline)

NQ (B)
Average RF: 128815. RF StDev: 18174.8 RF %RSD: 14.1092
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 117882.x + 1345.77
Goodness of fit (r^2): 0.999676



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.04	0.08	0.2	0.5	1
Area	6616	9829	25222	59332	122083
RF	165400	122862.5	126110	118664	122083
Last Area					
Residual	-0.00470768	0.00803626	-0.00254345	0.00809944	-0.0242209
Rep StDev					
Rep %RSD					
Rep 1 Area	6616	9829	25222	59332	122083
Rep 1 User	red	red	red	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\NQ\121510 NQic-primary \002.dat	C:\Instarch\Data\HPLC 2\NQ\121510NQic-primary\003.dat	C:\Instarch\Data\HPLC 2\NQ\121510NQic-primary\004.dat	C:\Instarch\Data\HPLC 2\NQ\121510NQic-primary\005.dat	C:\Instarch\Data\HPLC 2\NQ\121510 NQic-primary\006.dat
Rep 1 Sample ID	NQ pt. 1 EXP 4131	NQ pt. 2 EXP 4132	NQ pt. 3 EXP 4133	NQ pt. 4 EXP 4134	NQ pt. 5 EXP 4135
Rep 1 Calib. Time	Dec 15, 2010 15:06:50	Dec 15, 2010 15:07:00	Dec 15, 2010 15:07:09	Dec 15, 2010 15:13:27	Dec 16, 2010 08:17:04

	Level 6	Level 7
Amount	2	2.5

Calibration Report

Method:
C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121510NQic-primary.met
Print Time: Dec 23, 2010 14:57:30
User: red
Instrument: HPLC 2 (Offline)

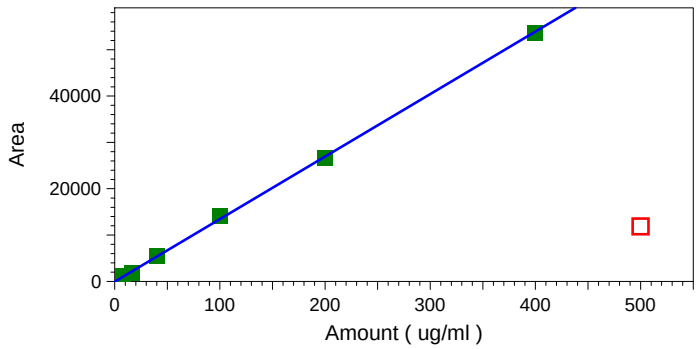
Area	235536	55737*
RF	117768	22294.8
Last Area		
Residual	0.0133507	2.0386
Rep StDev		
Rep %RSD		
Rep 1 Area	235536	55737*
Rep 1 User	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\NQ\121510NQic-primary\007.dat	C:\Instarch\Data\HPLC 2\NQ\121510NQic-primary\008.dat
Rep 1 Sample ID	NQ pt. 6 EXP 4136	NQ pt. 7 EXP 4137
Rep 1 Calib. Time	Dec 16, 2010 08:17:44	Dec 16, 2010 08:17:56

Calibration Report

Method:
C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121510NQic-primary.met
Print Time: Dec 23, 2010 14:57:34
User: red
Instrument: HPLC 2 (Offline)

12-DNB (SSTD) (B)
Average RF: 134.612 RF StDev: 11.2521 RF %RSD: 8.35893
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 134.911x - 30.3536
Goodness of fit (r^2): 0.999541

Peak: 12-DNB (SSTD) -- ESTD -- B



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	8	16	40	100	200
Area	1164	1821	5568	14218	26554
RF	145.5	113.8125	139.2	142.18	132.77
Last Area Residual	-0.85289	2.27724	-1.49659	-5.61286	2.94919
Rep StDev					
Rep %RSD					
Rep 1 Area	1164	1821	5568	14218	26554
Rep 1 User	red	red	red	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\NQ\121510 NQic-primary \002.dat	C:\Instarch\Data\HPLC 2\NQ\121510NQic-primary\003.dat	C:\Instarch\Data\HPLC 2\NQ\121510NQic-primary\004.dat	C:\Instarch\Data\HPLC 2\NQ\121510NQic-primary\005.dat	C:\Instarch\Data\HPLC 2\NQ\121510 NQic-primary\006.dat
Rep 1 Sample ID	NQ pt. 1 EXP 4131	NQ pt. 2 EXP 4132	NQ pt. 3 EXP 4133	NQ pt. 4 EXP 4134	NQ pt. 5 EXP 4135
Rep 1 Calib. Time	Dec 15, 2010 15:06:50	Dec 15, 2010 15:07:00	Dec 15, 2010 15:07:09	Dec 15, 2010 15:13:27	Dec 16, 2010 08:17:04

	Level 6	Level 7
Amount	400	500

Calibration Report

Method:
C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121510NQic-primary.met
Print Time: Dec 23, 2010 14:57:34
User: red
Instrument: HPLC 2 (Offline)

Area	53683	11847*
RF	134.2075	23.694
Last Area		
Residual	1.8613	411.962
Rep StDev		
Rep %RSD		
Rep 1 Area	53683	11847*
Rep 1 User	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\NQ\121510NQic-primary\007.dat	C:\Instarch\Data\HPLC 2\NQ\121510NQic-primary\008.dat
Rep 1 Sample ID	NQ pt. 6 EXP 4136	NQ pt. 7 EXP 4137
Rep 1 Calib. Time	Dec 16, 2010 08:17:44	Dec 16, 2010 08:17:56

QC Check Standard Report

Sequence : C:\Instarch\Sequence\HPLC 2\NQ\121510NQic-primary.seq
User : red
Printed : Dec 23, 2010 14:57:03

RED
12/30/2010

File	Sample ID	Acquired
C:\Instarch\Data\HPLC 2\NQ\121510NQic-primary\002.dat	NQ pt. 1 EXP 4131	Dec 23, 2010 14:57:03

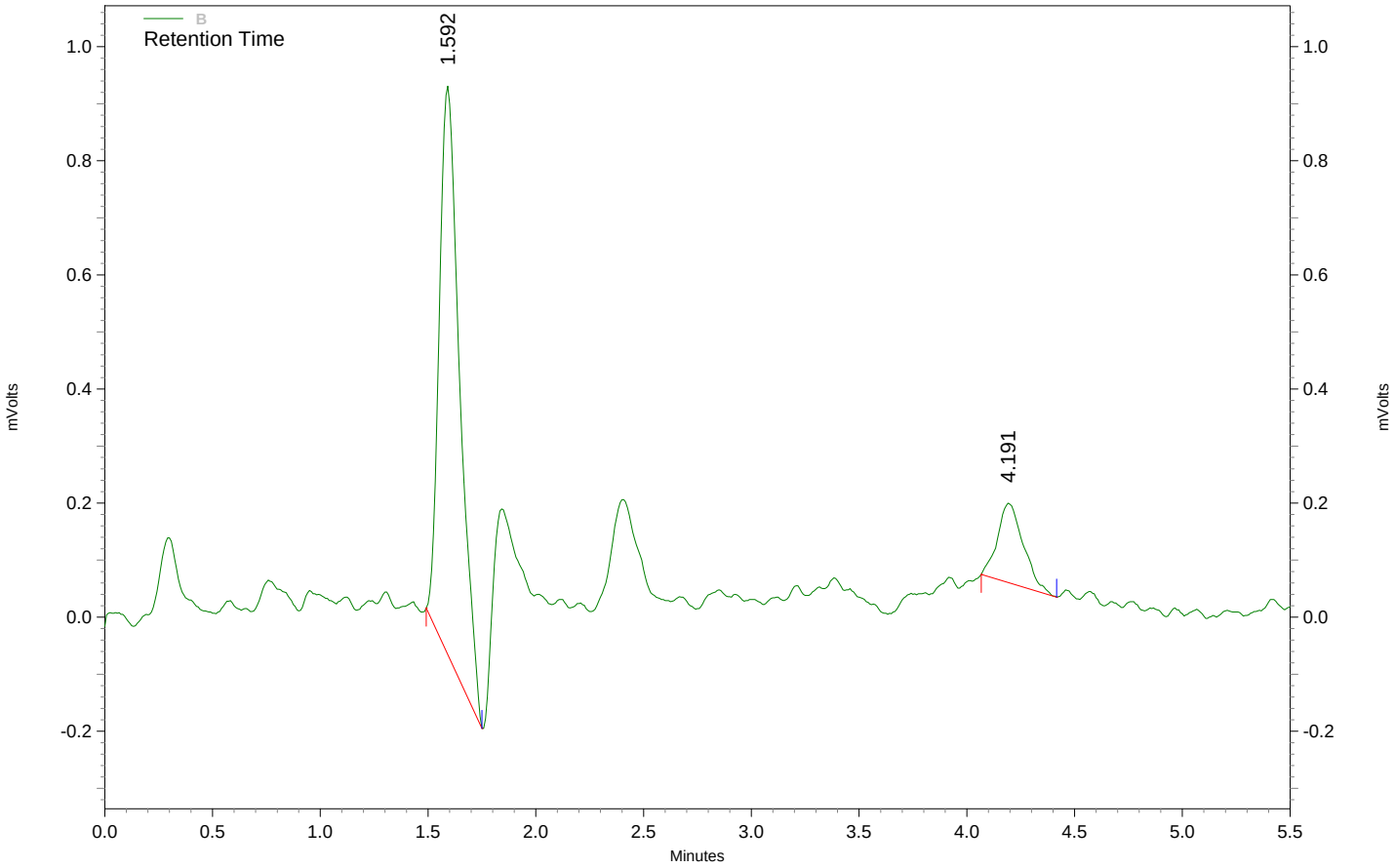
B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
NQ	0.040	0.045	11.769	20.000	Passed
12-DNB (SSTD)	8.000	8.868	10.846	20.000	Passed

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121510NQic-primary\002.dat
User ID: **red**
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121510NQic-primary.met
Sample ID: NQ pt. 1 EXP 4131
Acquired: Dec 15, 2010 14:44:21
Data Summary: {Data Description}



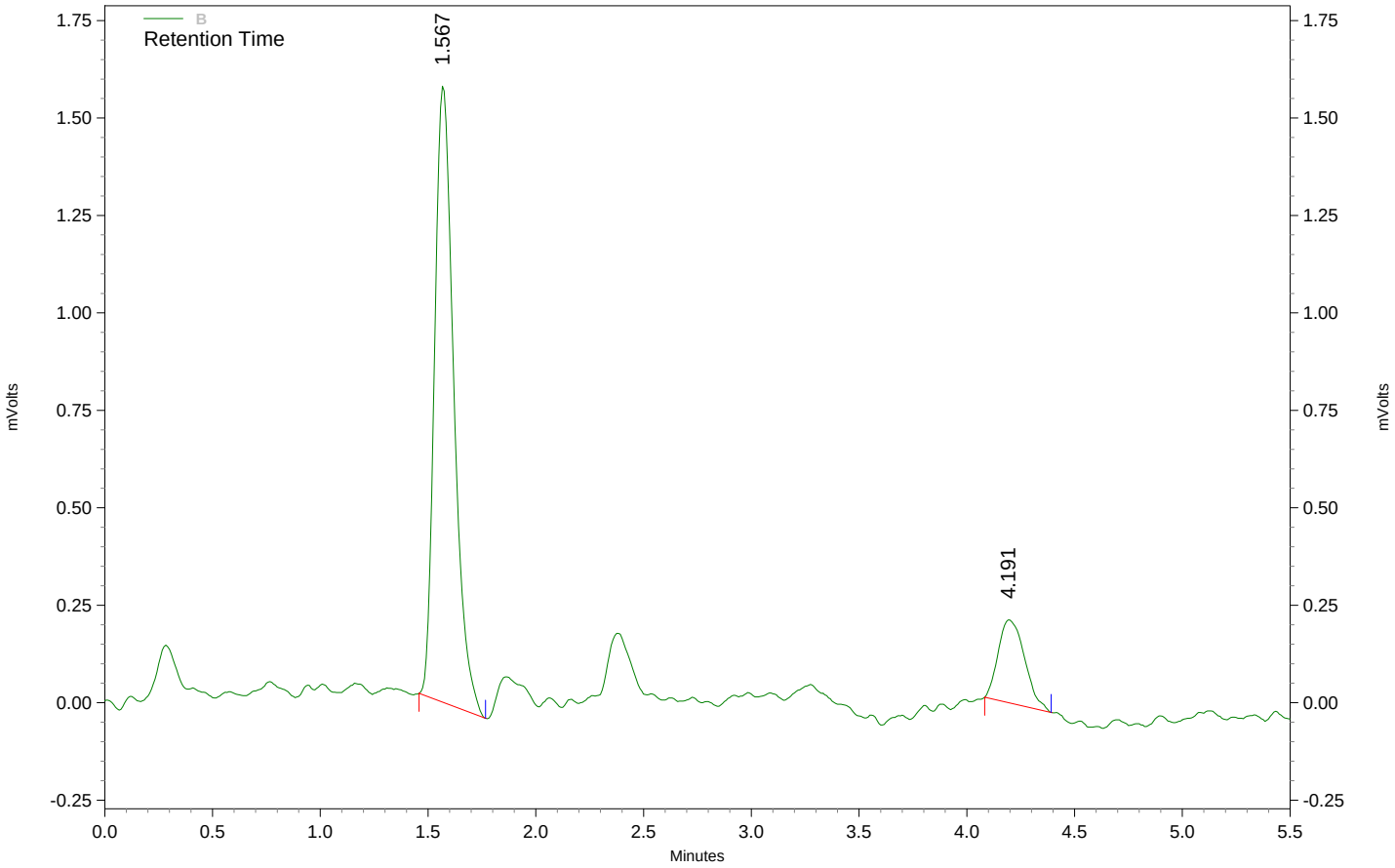
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.592	6616	**0.045**
12-DNB (SSTD)	4.191	1166	**8.868**

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121510NQic-primary\003.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121510NQic-primary.met
Sample ID: NQ pt. 2 EXP 4132
Acquired: Dec 15, 2010 14:52:07
Data Summary: {Data Description}



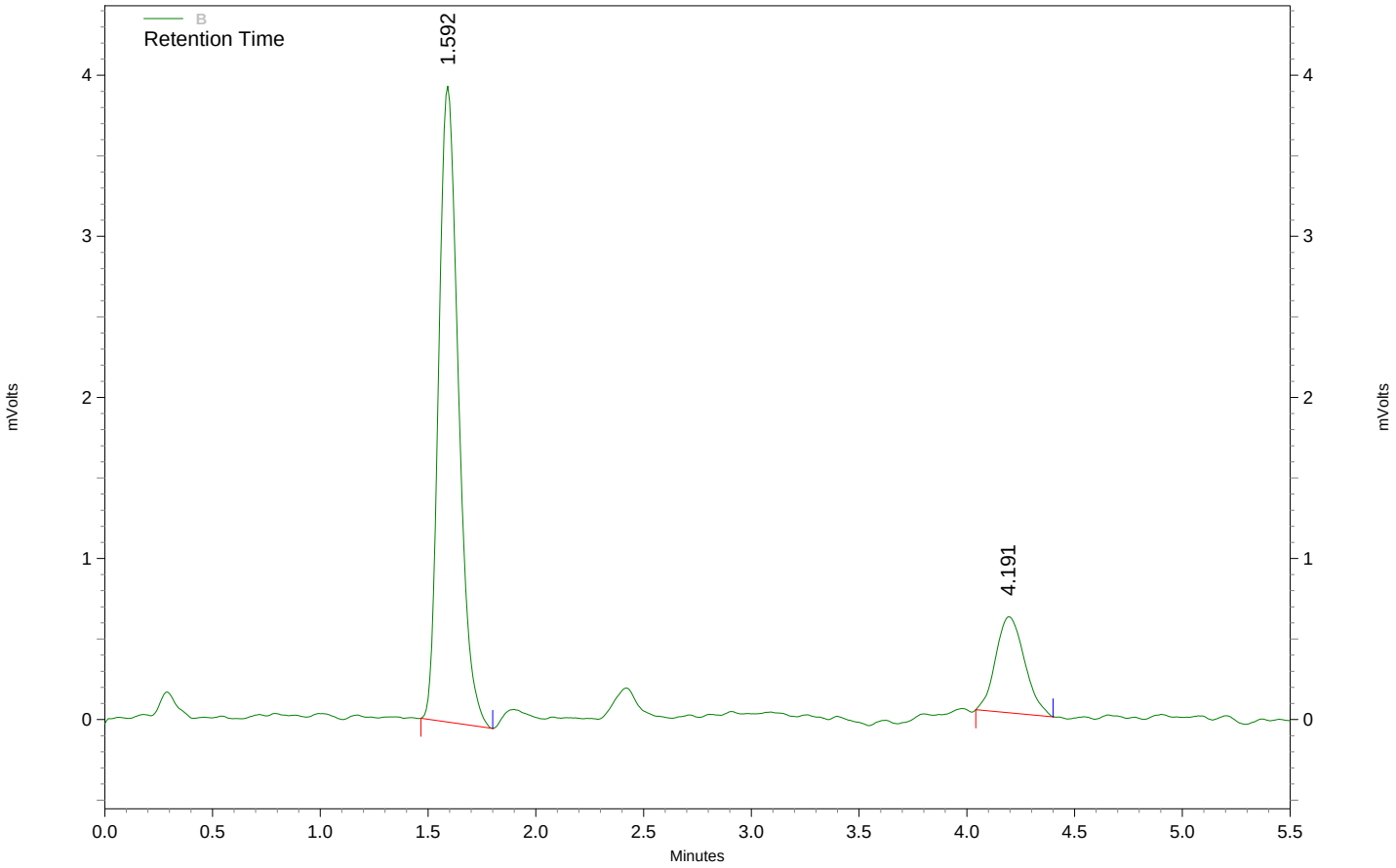
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.567	9829	**0.080 CAL**
12-DNB (SSTD)	4.191	1821	**16.000 CAL**

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121510NQic-primary\004.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121510NQic-primary.met
Sample ID: NQ pt. 3 EXP 4133
Acquired: Dec 15, 2010 14:59:55
Data Summary: {Data Description}



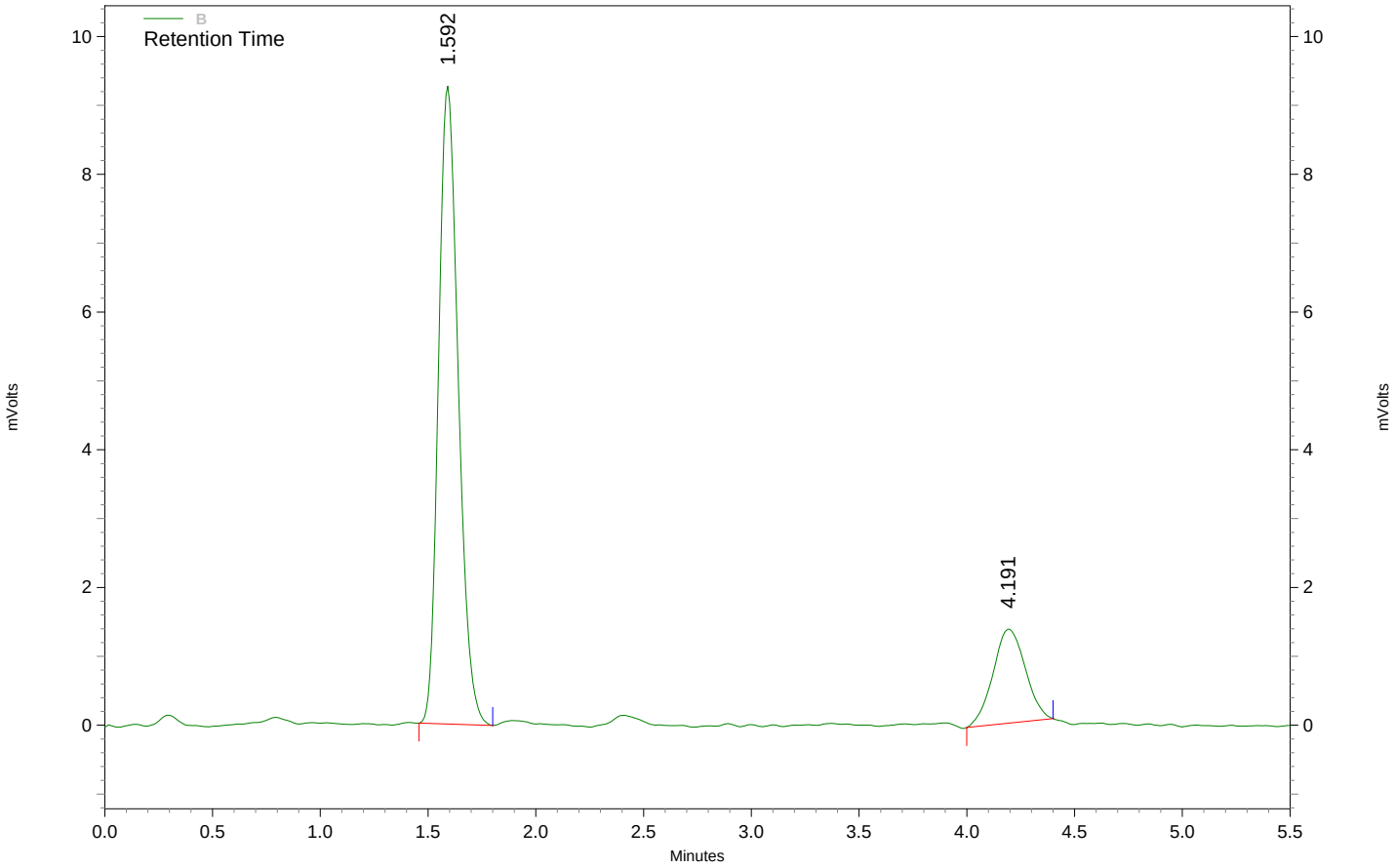
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.592	25222	**0.200 CAL**
12-DNB (SSTD)	4.191	5568	**40.000 CAL**

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121510NQic-primary\005.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121510NQic-primary.met
Sample ID: NQ pt. 4 EXP 4134
Acquired: Dec 15, 2010 15:07:42
Data Summary: {Data Description}



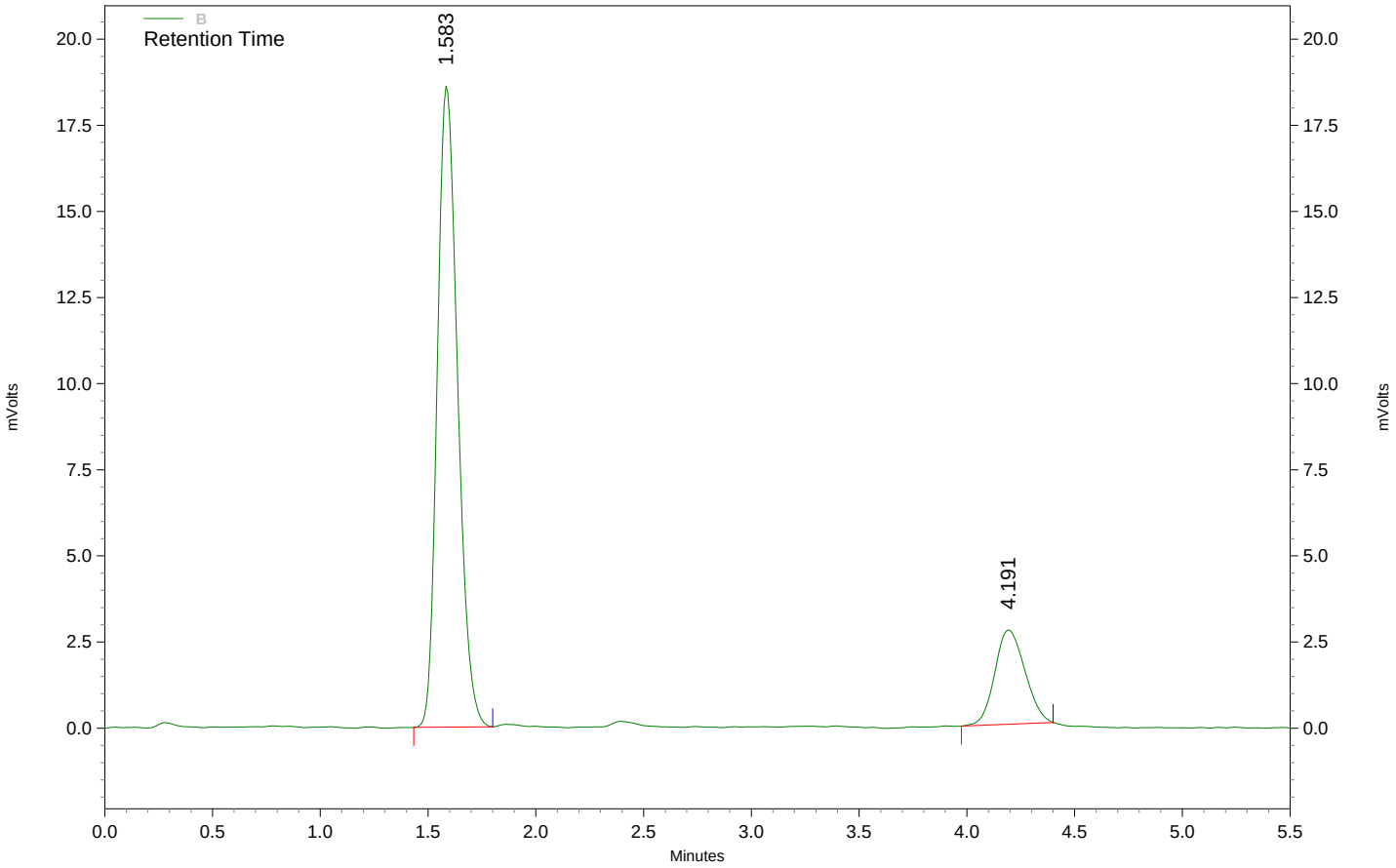
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.592	59332	**0.500 CAL**
12-DNB (SSTD)	4.191	14218	**100.000 CAL**

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121510NQic-primary\006.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121510NQic-primary.met
Sample ID: NQ pt. 5 EXP 4135
Acquired: Dec 15, 2010 15:15:31
Data Summary: {Data Description}



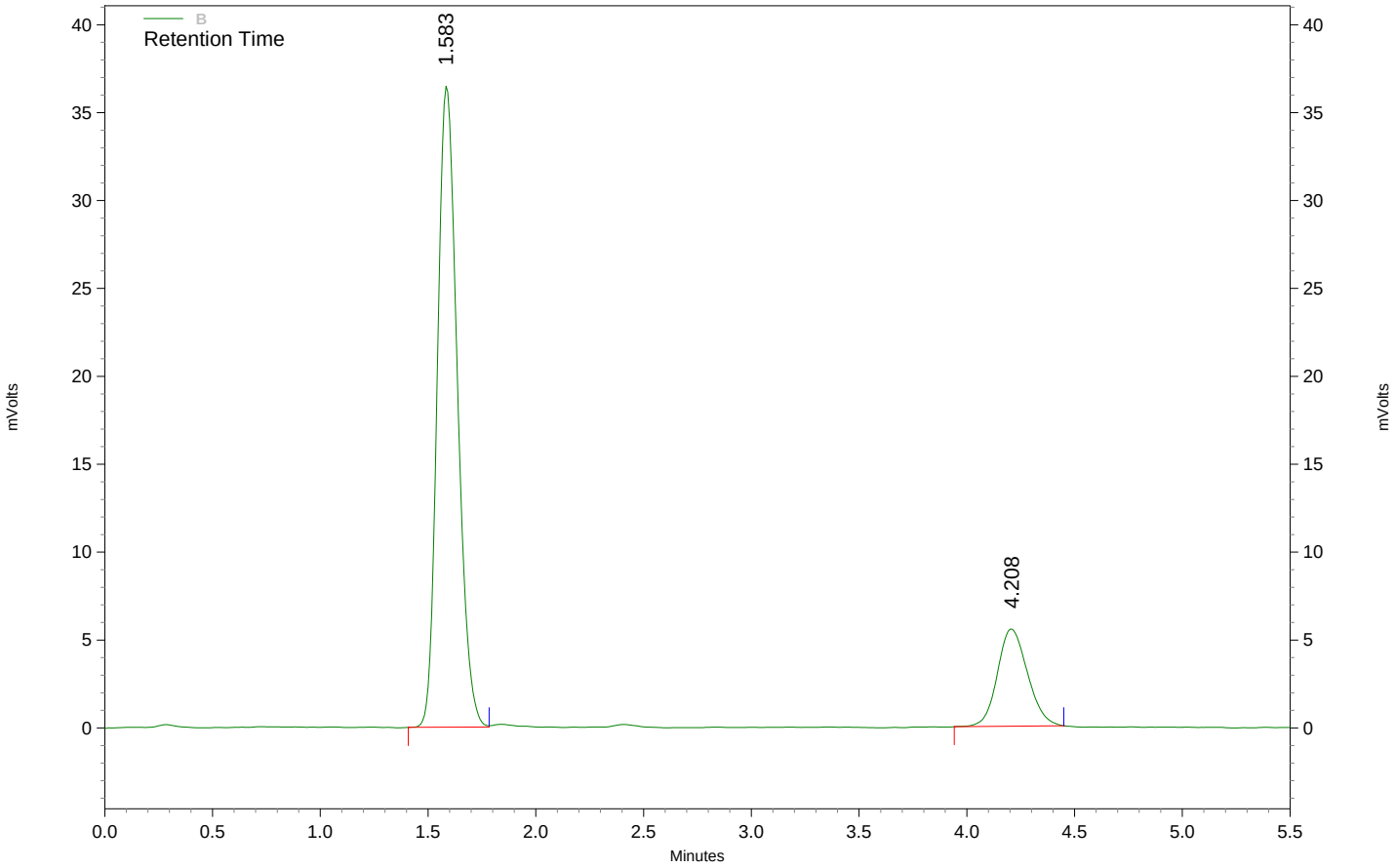
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.583	122083	**1.000 CAL**
12-DNB (SSTD)	4.191	26554	**200.000 CAL**

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121510NQic-primary\007.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121510NQic-primary.met
Sample ID: NQ pt. 6 EXP 4136
Acquired: Dec 15, 2010 15:23:17
Data Summary: {Data Description}



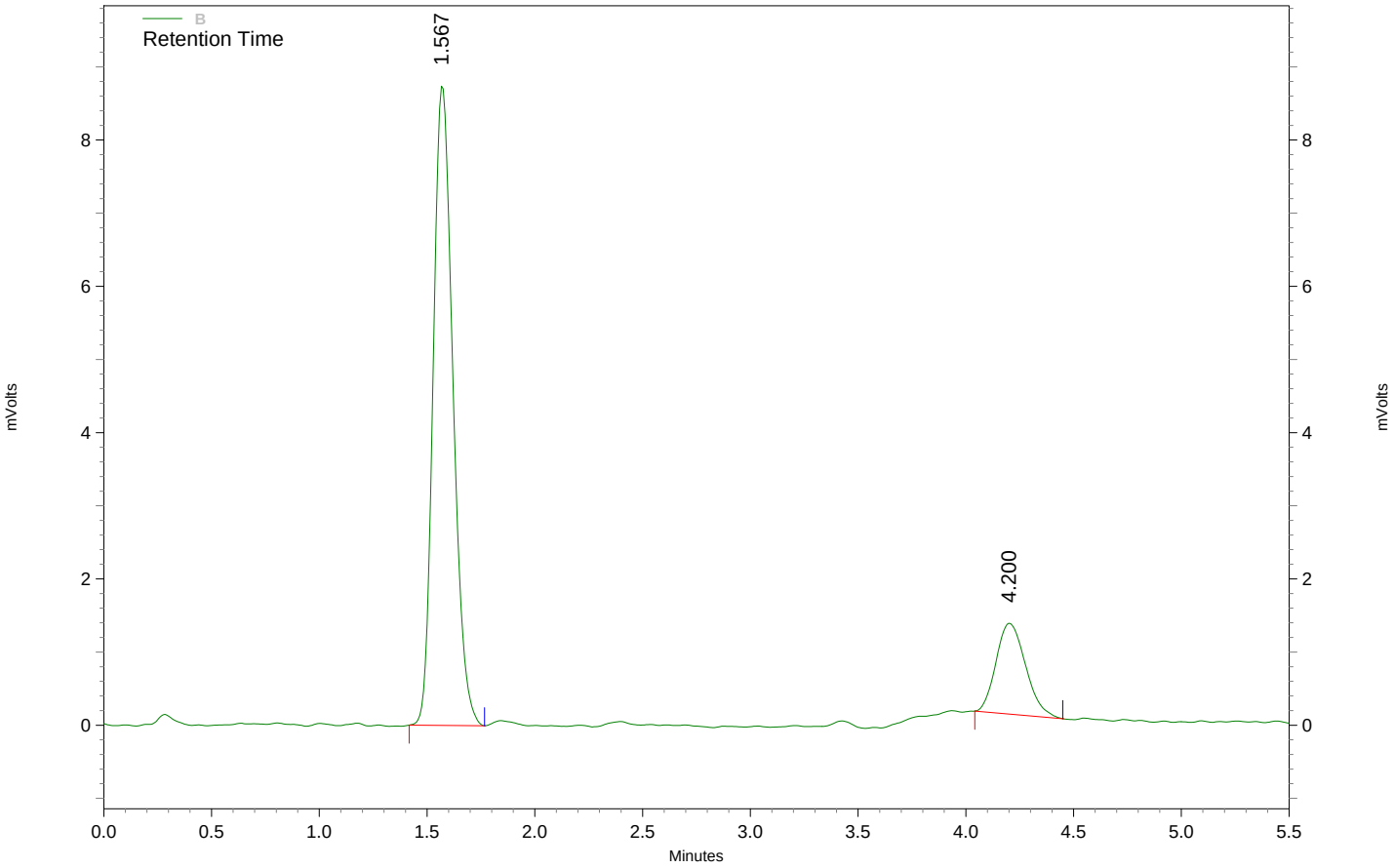
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.583	235536	**2.000 CAL**
12-DNB (SSTD)	4.208	53683	**400.000 CAL**

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121510NQic-primary\008.dat
User ID: **red**
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121510NQic-primary.met
Sample ID: NQ pt. 7 EXP 4137
Acquired: Dec 15, 2010 15:31:05
Data Summary: {Data Description}



B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.567	55737	**2.500 CAL**
12-DNB (SSTD)	4.200	11847	**500.000 CAL**

QC Check Standard Report

Sequence : C:\Instarch\Sequence\HPLC 2\NQ\121510NQic-primary.seq
User : red
Printed : Dec 23, 2010 14:57:16

RED
12/30/2010

File	Sample ID	Acquired
C:\Instarch\Data\HPLC 2\NQ\121510NQic-primary\009.dat	NQ ICV EXP 4138	Dec 23, 2010 14:57:16

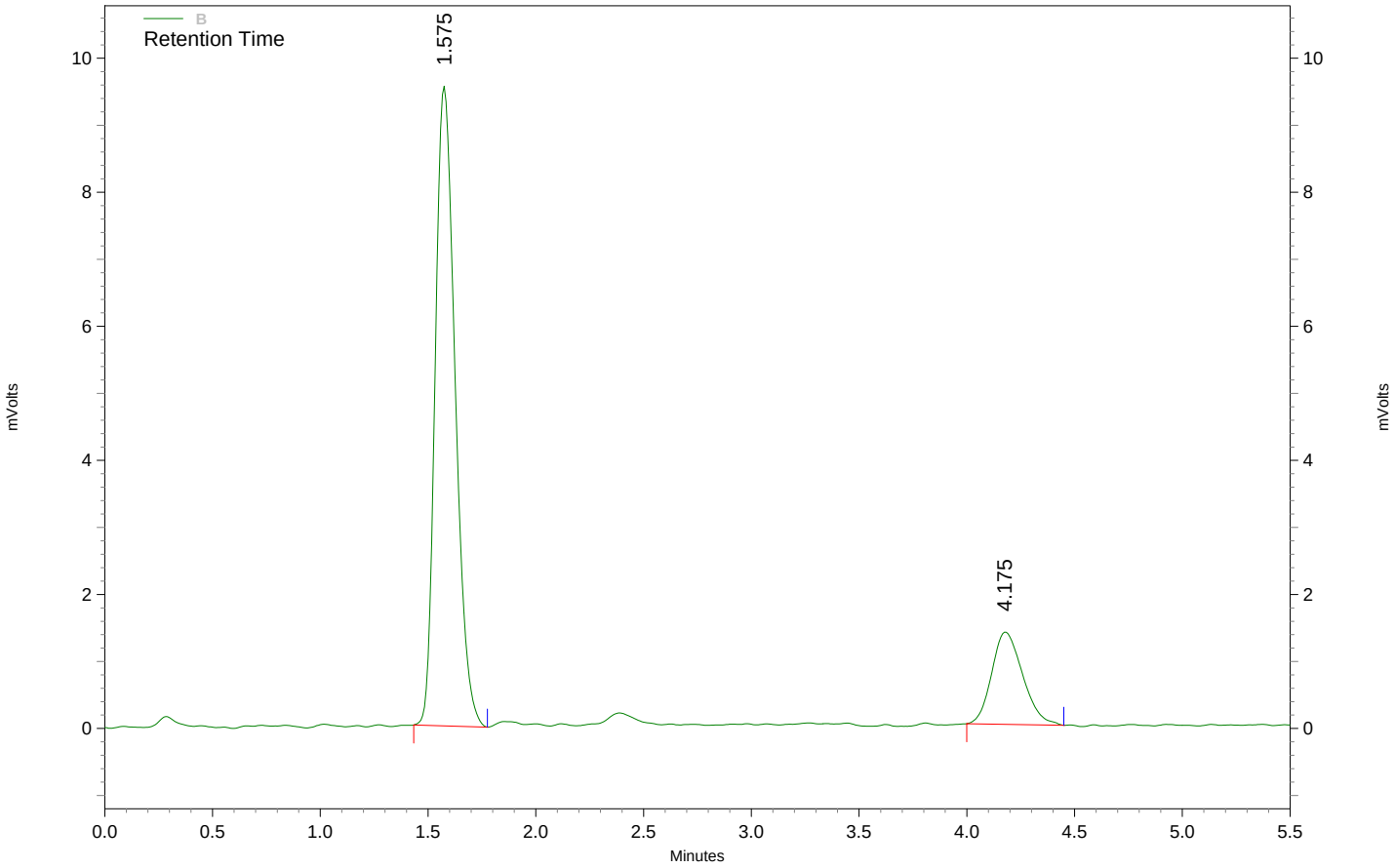
B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
NQ	0.500	0.510	1.906	20.000	**Passed**
12-DNB (SSTD)	100.000	102.048	2.048	20.000	**Passed**

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\NQ\121510NQic-primary\009.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121510NQic-primary.met
Sample ID: NQ ICV EXP 4138
Acquired: Dec 15, 2010 15:38:53
Data Summary: {Data Description}

RED
12/30/2010



B Results

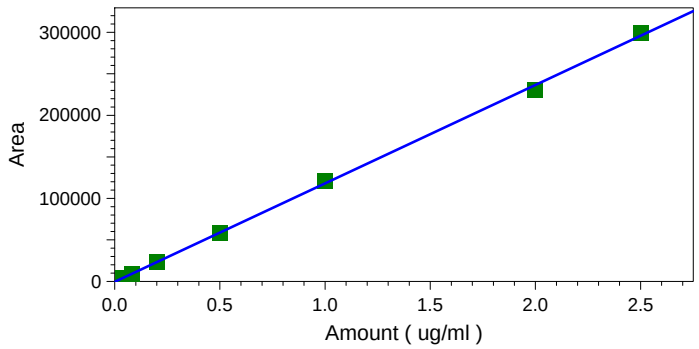
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.575	61410	**0.510**
12-DNB (SSTD)	4.175	13737	**102.048**

Calibration Report

Method:
C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
Print Time: Dec 23, 2010 15:01:31
User: red
Instrument: HPLC 2 (Offline)

NQ (B)
Average RF: 115359. RF StDev: 5238.10 RF %RSD: 4.54068
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 118555.x - 490.815
Goodness of fit (r^2): 0.999380

Peak: NQ -- ESTD -- B



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.04	0.08	0.2	0.5	1
Area	4334	8637	23800	58157	120522
RF	108350	107962.5	119000	116314	120522
Last Area					
Residual	-0.00069693	0.00300761	-0.0048911	0.00531033	-0.0207335
Rep StDev					
Rep %RSD					
Rep 1 Area	4334	8637	23800	58157	120522
Rep 1 User	red	red	red	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\002.dat	C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\003.dat	C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\004.dat	C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\005.dat	C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\006.dat
Rep 1 Sample ID	NQ pt. 1 EXP 4139	NQ pt. 2 EXP 4140	NQ pt. 3 EXP 4141	NQ pt. 4 EXP 4142	NQ pt. 5 EXP 4143
Rep 1 Calib. Time	Dec 16, 2010 21:15:41	Dec 16, 2010 20:55:46	Dec 16, 2010 20:55:54	Dec 16, 2010 20:56:02	Dec 16, 2010 20:56:11

	Level 6	Level 7
Amount	2	2.5

Calibration Report

Method:
C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
Print Time: Dec 23, 2010 15:01:31
User: red
Instrument: HPLC 2 (Offline)

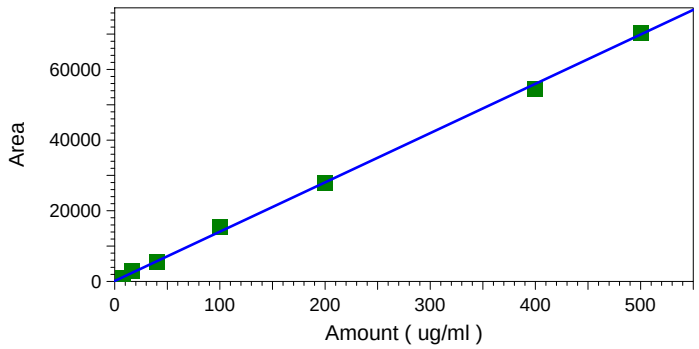
Area	231086	299559
RF	115543	119823.6
Last Area		
Residual	0.0466679	-0.0308964
Rep StDev		
Rep %RSD		
Rep 1 Area	231086	299559
Rep 1 User	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\007.dat	C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\008.dat
Rep 1 Sample ID	NQ pt. 6 EXP 4144	NQ pt. 7 EXP 4145
Rep 1 Calib. Time	Dec 16, 2010 21:15:30	Dec 16, 2010 21:21:46

Calibration Report

Method:
C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
Print Time: Dec 23, 2010 15:01:34
User: red
Instrument: HPLC 2 (Offline)

12-DNB (SSTD) (B)
Average RF: 145.355 RF StDev: 17.6221 RF %RSD: 12.1236
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 139.565x + 124.382
Goodness of fit (r^2): 0.999072

Peak: 12-DNB (SSTD) -- ESTD -- B



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	8	16	40	100	200
Area	1020	2906	5566	15262	27902
RF	127.5	181.625	139.15	152.62	139.51
Last Area Residual	1.58278	-3.93067	1.01008	-8.46305	0.969665
Rep StDev					
Rep %RSD					
Rep 1 Area	1020	2906	5566	15262	27902
Rep 1 User	red	red	red	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\002.dat	C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\003.dat	C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\004.dat	C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\005.dat	C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\006.dat
Rep 1 Sample ID	NQ pt. 1 EXP 4139	NQ pt. 2 EXP 4140	NQ pt. 3 EXP 4141	NQ pt. 4 EXP 4142	NQ pt. 5 EXP 4143
Rep 1 Calib. Time	Dec 16, 2010 21:15:41	Dec 16, 2010 20:55:46	Dec 16, 2010 20:55:54	Dec 16, 2010 20:56:02	Dec 16, 2010 20:56:11

	Level 6	Level 7
Amount	400	500

Calibration Report

Method:
C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
Print Time: Dec 23, 2010 15:01:34
User: red
Instrument: HPLC 2 (Offline)

Area	54497	70417
RF	136.2425	140.834
Last Area		
Residual	10.4129	-3.65597
Rep StDev		
Rep %RSD		
Rep 1 Area	54497	70417
Rep 1 User	red	red
Rep 1 Data File	C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\007.dat	C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\008.dat
Rep 1 Sample ID	NQ pt. 6 EXP 4144	NQ pt. 7 EXP 4145
Rep 1 Calib. Time	Dec 16, 2010 21:15:30	Dec 16, 2010 21:21:46

QC Check Standard Report

Sequence : C:\Instarch\Sequence\HPLC 2\NQ\121610NQic-confirm.seq
User : red
Printed : Dec 23, 2010 14:59:48

RED
12/30/2010

File	Sample ID	Acquired
C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\002.dat	NQ pt. 1 EXP 4139	Dec 23, 2010 14:59:48

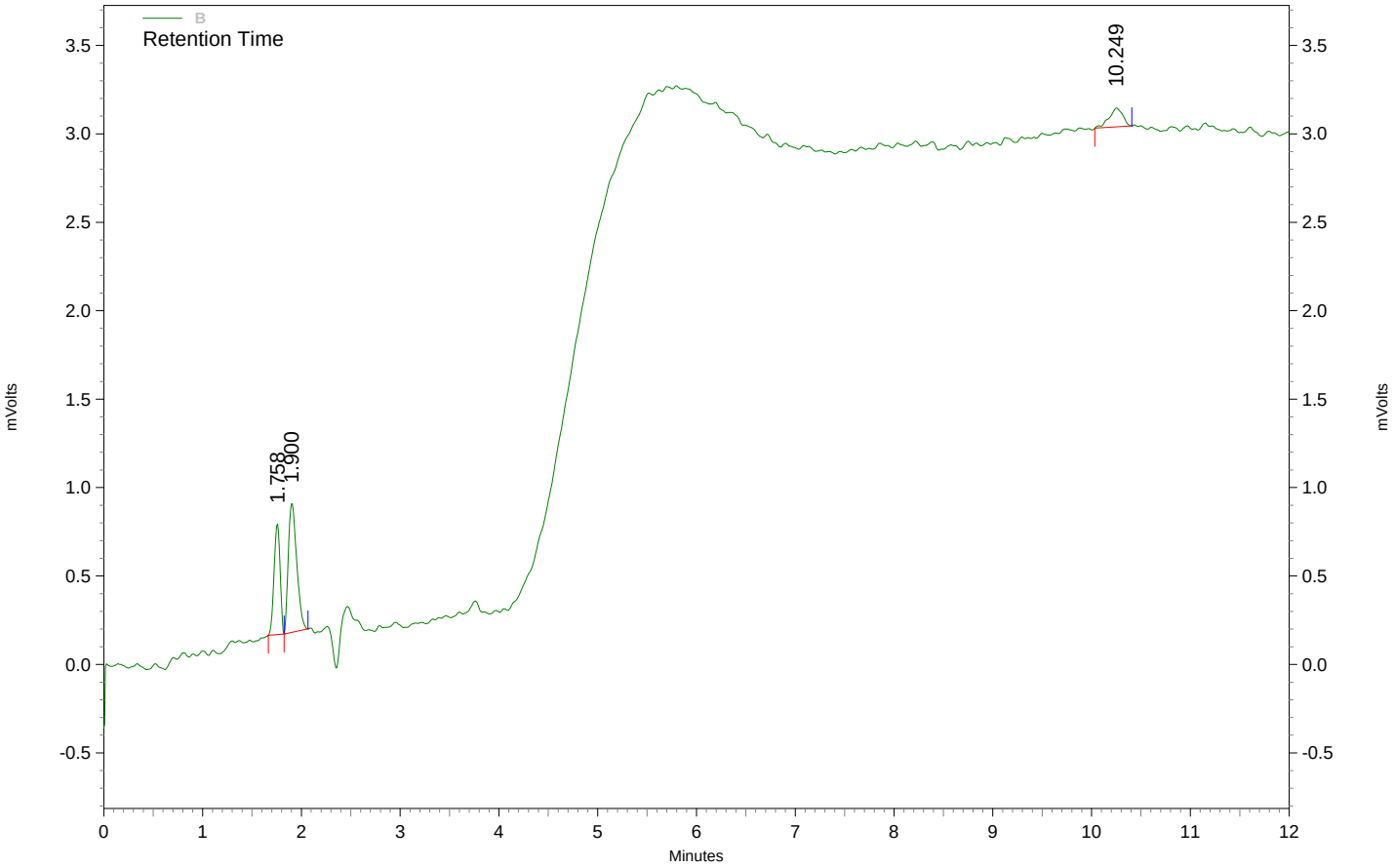
B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
NQ	0.040	0.041	1.742	20.000	Passed
12-DNB (SSTD)	8.000	6.417	19.785	20.000	Passed

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\002.dat
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
User ID: red
Sample ID: NQ pt. 1 EXP 4139
Acquired: Dec 16, 2010 19:43:37
Data summary: {Data Description}



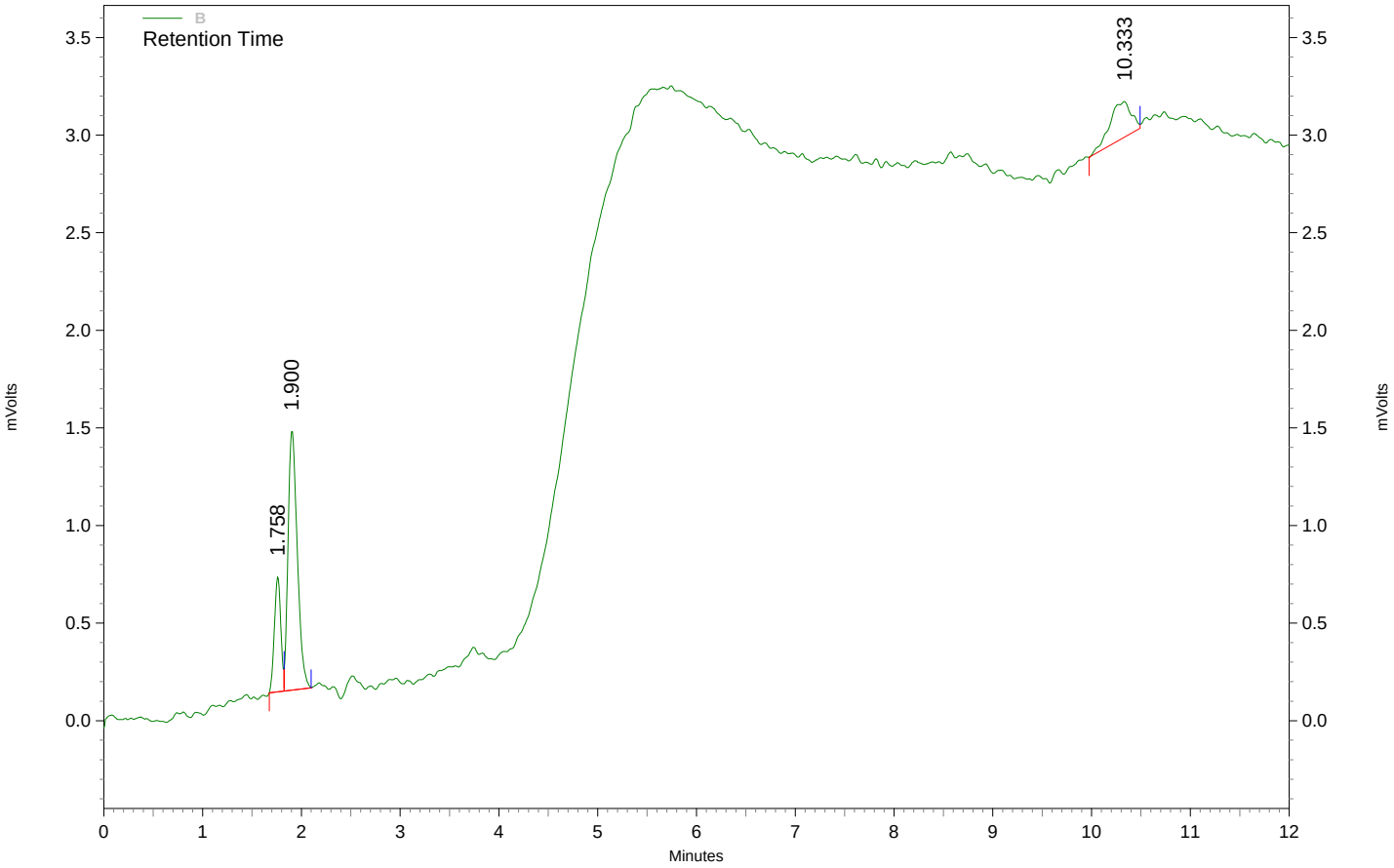
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.900	4334	**0.041**
12-DNB (SSTD)	10.249	1020	**6.417**

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\003.dat
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
User ID: red
Sample ID: NQ pt. 2 EXP 4140
Acquired: Dec 16, 2010 19:57:54
Data summary: {Data Description}



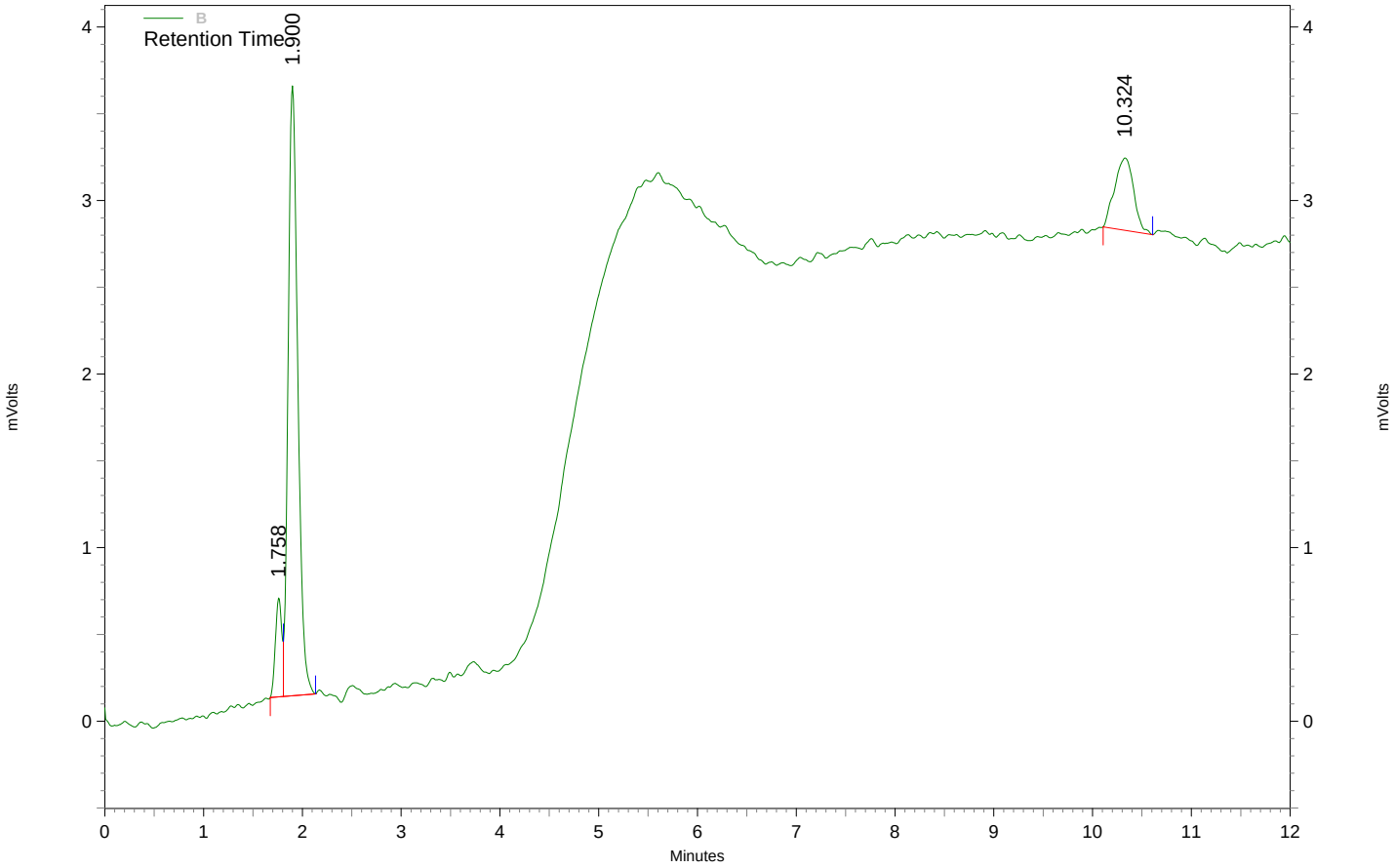
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.900	8637	**0.080 CAL**
12-DNB (SSTD)	10.333	2906	**16.000 CAL**

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\004.dat
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
User ID: red
Sample ID: NQ pt. 3 EXP 4141
Acquired: Dec 16, 2010 20:12:11
Data summary: {Data Description}



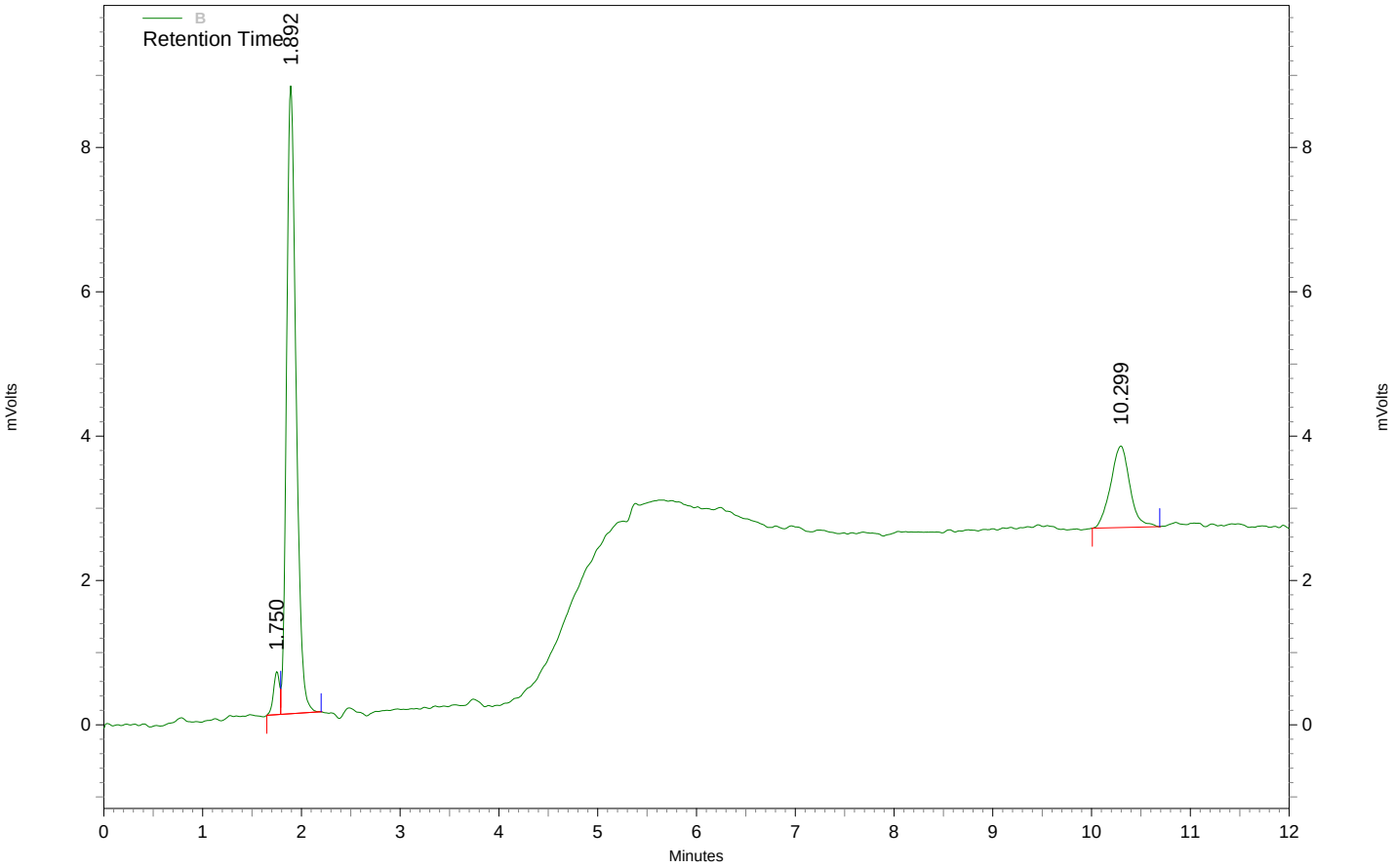
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.900	23800	**0.200 CAL**
12-DNB (SSTD)	10.324	5566	**40.000 CAL**

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\005.dat
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
User ID: **red**
Sample ID: NQ pt. 4 EXP 4142
Acquired: Dec 16, 2010 20:26:29
Data summary: {Data Description}



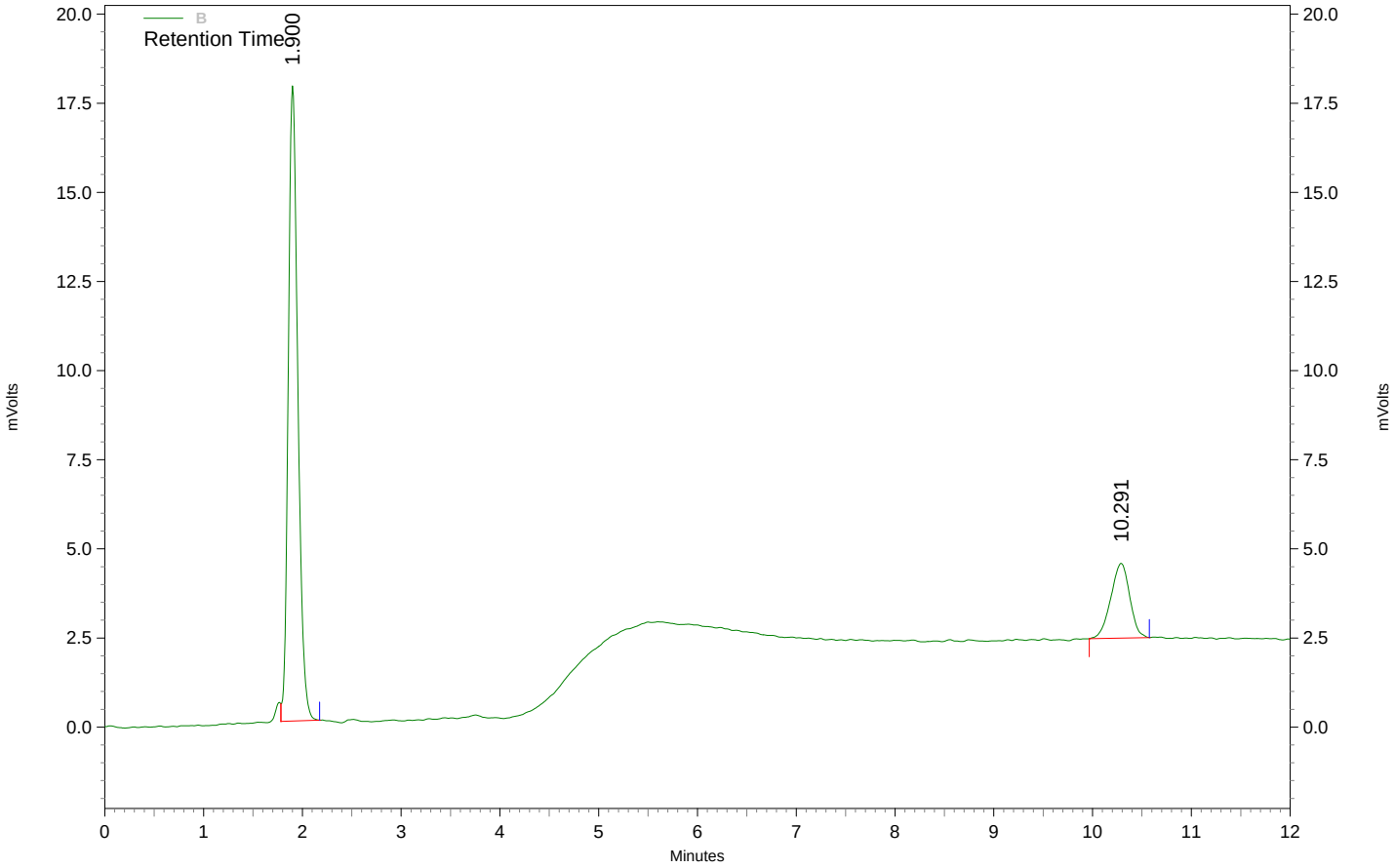
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.892	58157	**0.500 CAL**
12-DNB (SSTD)	10.299	15262	**100.000 CAL**

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\006.dat
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
User ID: red
Sample ID: NQ pt. 5 EXP 4143
Acquired: Dec 16, 2010 20:40:46
Data summary: {Data Description}



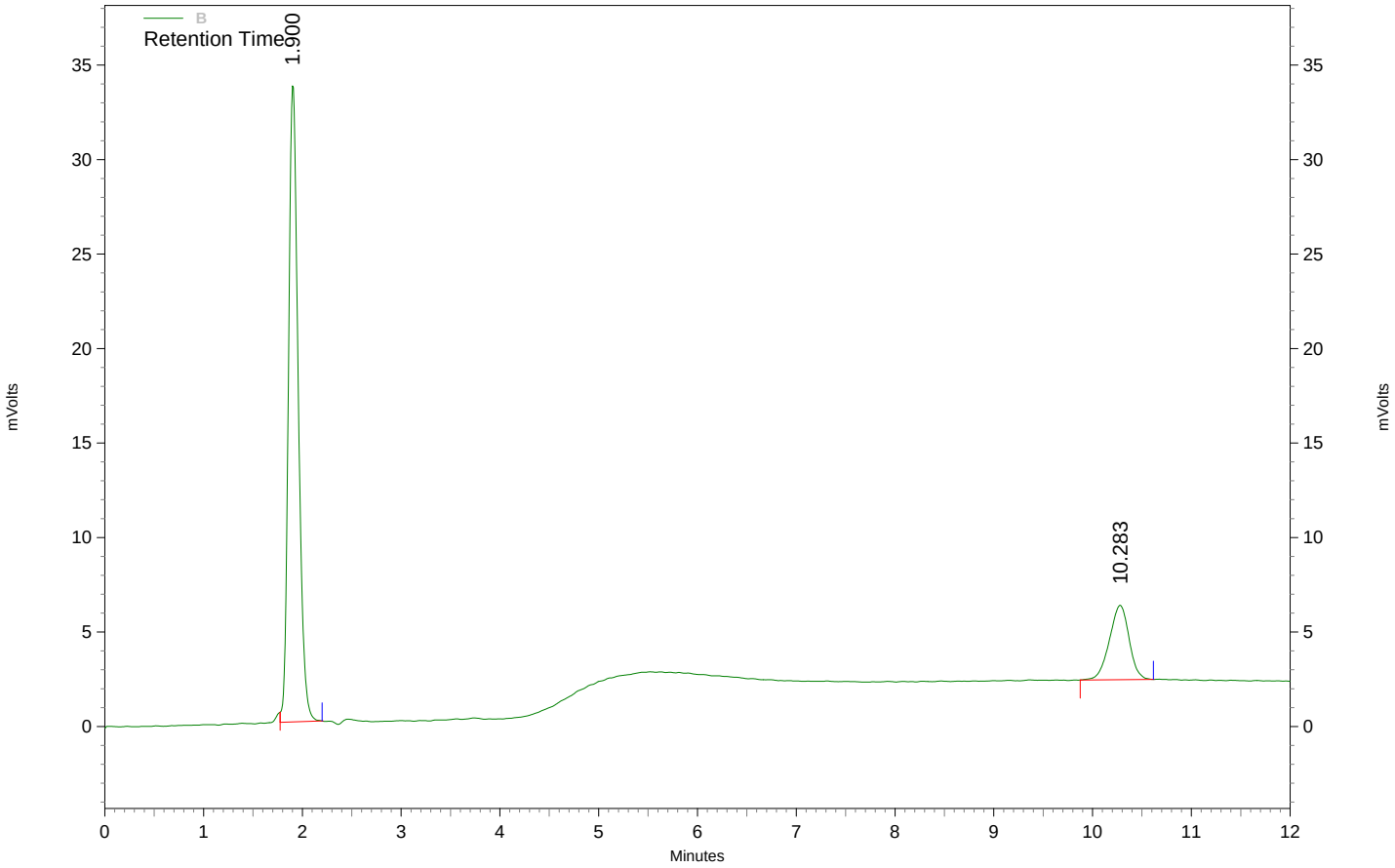
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.900	120522	**1.000 CAL**
12-DNB (SSTD)	10.291	27902	**200.000 CAL**

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\007.dat
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
User ID: red
Sample ID: NQ pt. 6 EXP 4144
Acquired: Dec 16, 2010 20:55:04
Data summary: {Data Description}



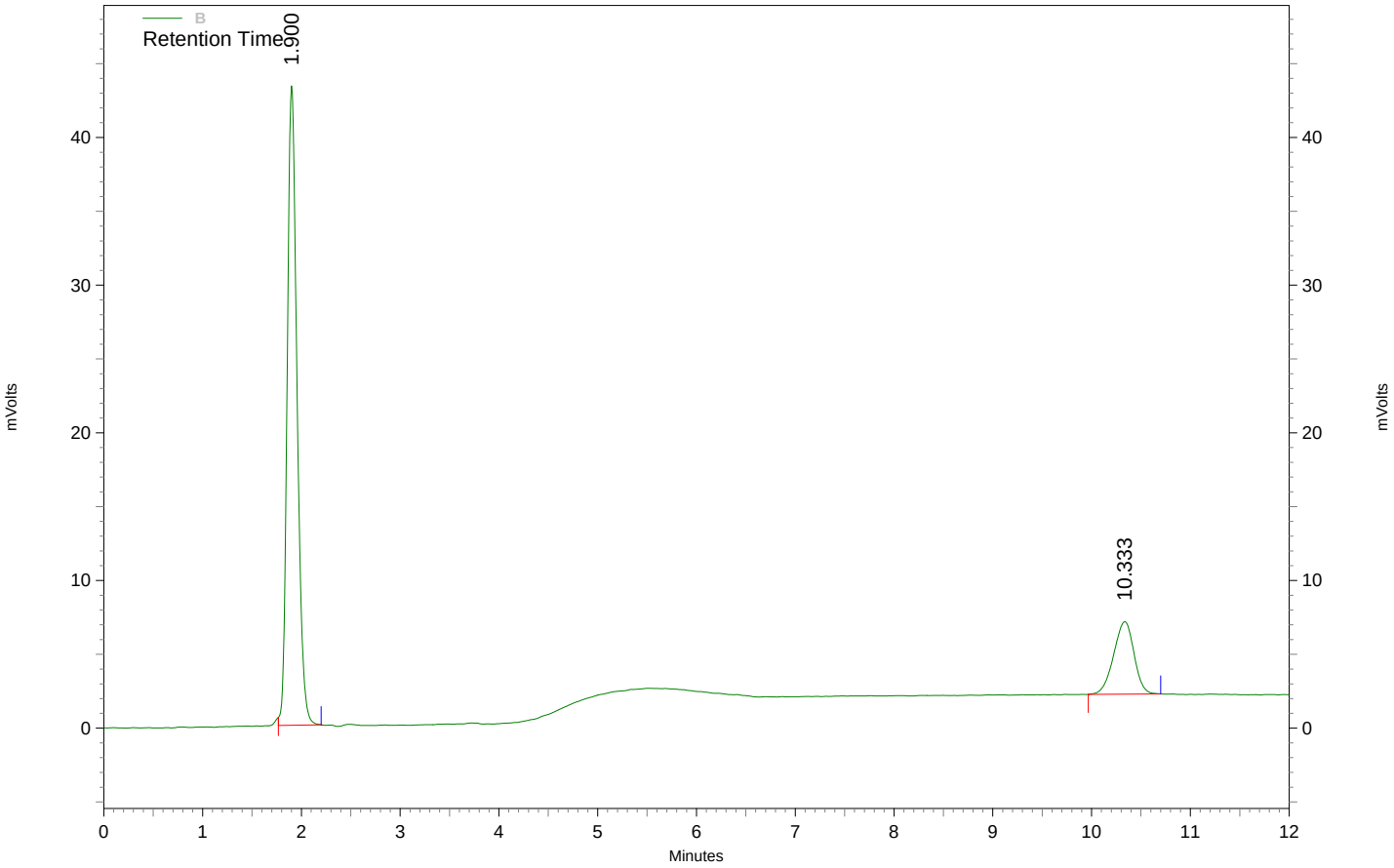
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.900	231086	**2.000 CAL**
12-DNB (SSTD)	10.283	54497	**400.000 CAL**

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\008.dat
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
User ID: red
Sample ID: NQ pt. 7 EXP 4145
Acquired: Dec 16, 2010 21:09:21
Data summary: {Data Description}



B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.900	299559	**2.500 CAL**
12-DNB (SSTD)	10.333	70417	**500.000 CAL**

QC Check Standard Report

Sequence : C:\Instarch\Sequence\HPLC 2\NQ\121610NQic-confirm.seq
User : red
Printed : Dec 23, 2010 15:00:08

RED
12/30/2010

File	Sample ID	Acquired
C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\009.dat	NQ ICV EXP 4146	Dec 23, 2010 15:00:08

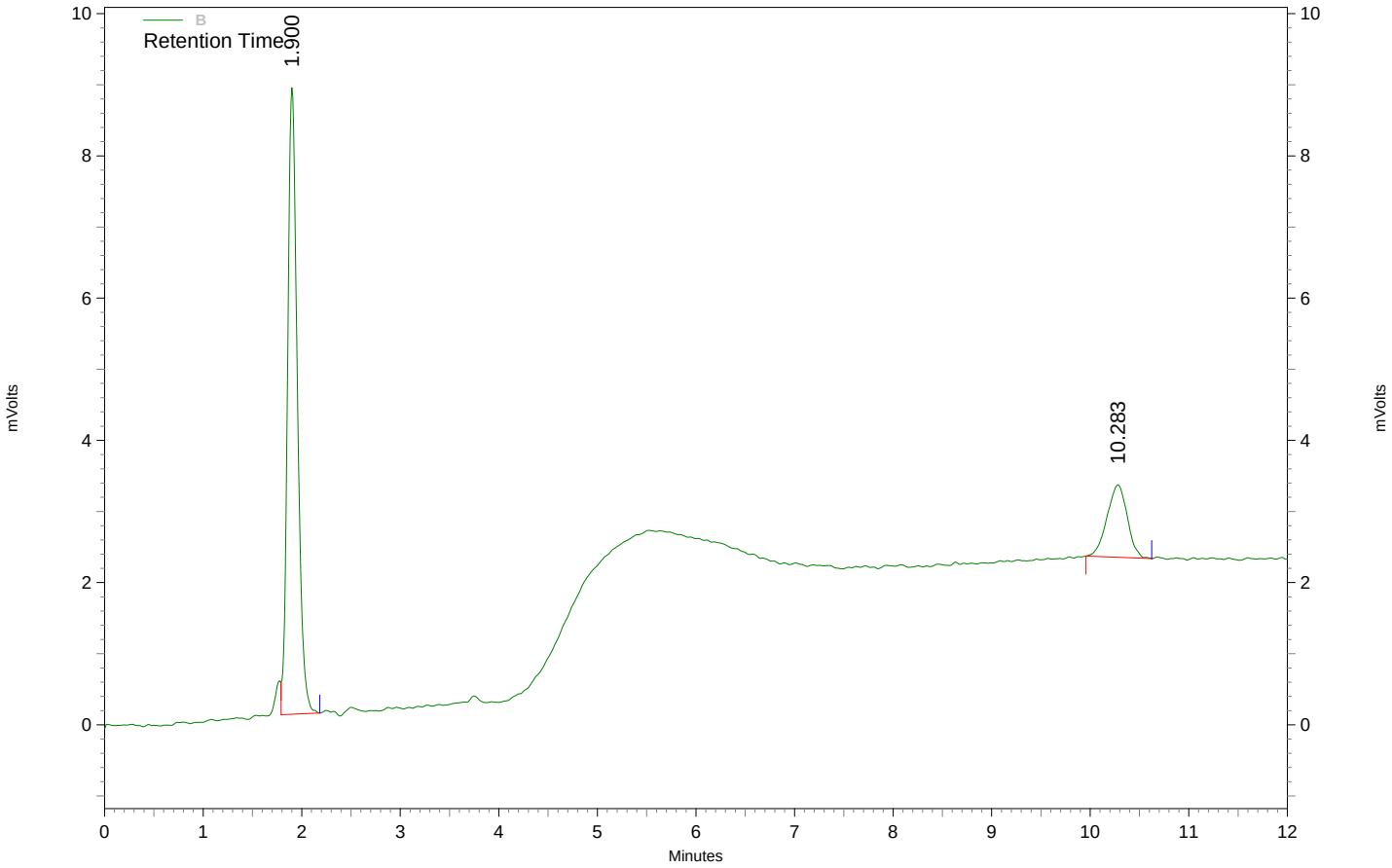
B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
NQ	0.500	0.516	3.267	20.000	**Passed**
12-DNB (SSTD)	100.000	103.082	3.082	20.000	**Passed**

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\009.dat
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
User ID: red
Sample ID: NQ ICV EXP 4146
Acquired: Dec 16, 2010 21:23:39
Data summary: {Data Description}



B Results

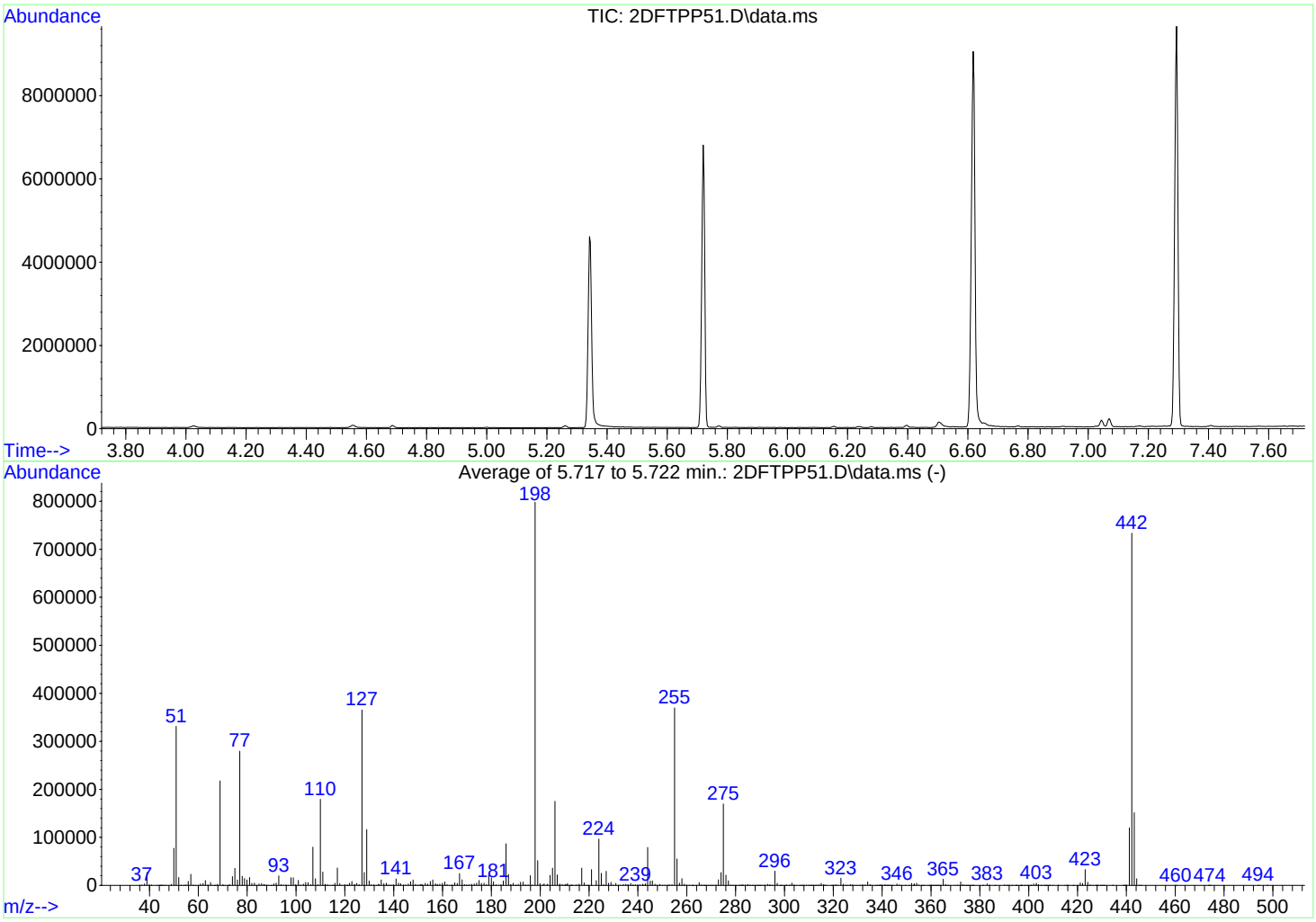
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.900	60723	**0.516**
12-DNB (SSTD)	10.283	14511	**103.082**

DFTPP

Data File : C:\INSTARCH\DATA\2S120210B\2DFTPP51.D Vial: 1
Acq On : 2 Dec 2010 11:11 Operator: RPN
Sample : DFTPP SVMS4646 Inst : SVMS2
Misc : SVMS2,25 ng DFTPP Multiplr: 1.00
Integrator: RTE

RPN
12/02/10

Method : C:\INSTARCH\METHOD\2S120210.M
Title : Method for 8270 analysis for instrument SVMS2
Last Update : Thu Dec 02 14:33:20 2010



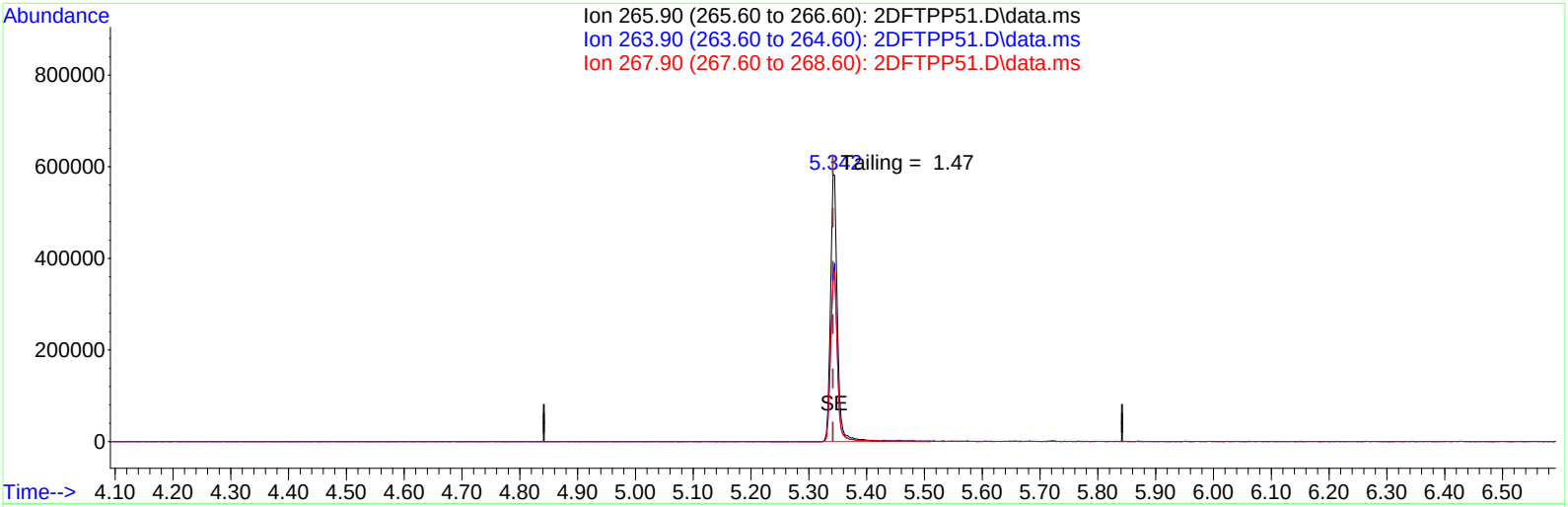
AutoFind: Scans 821, 822, 823; Background Corrected with Scan 813

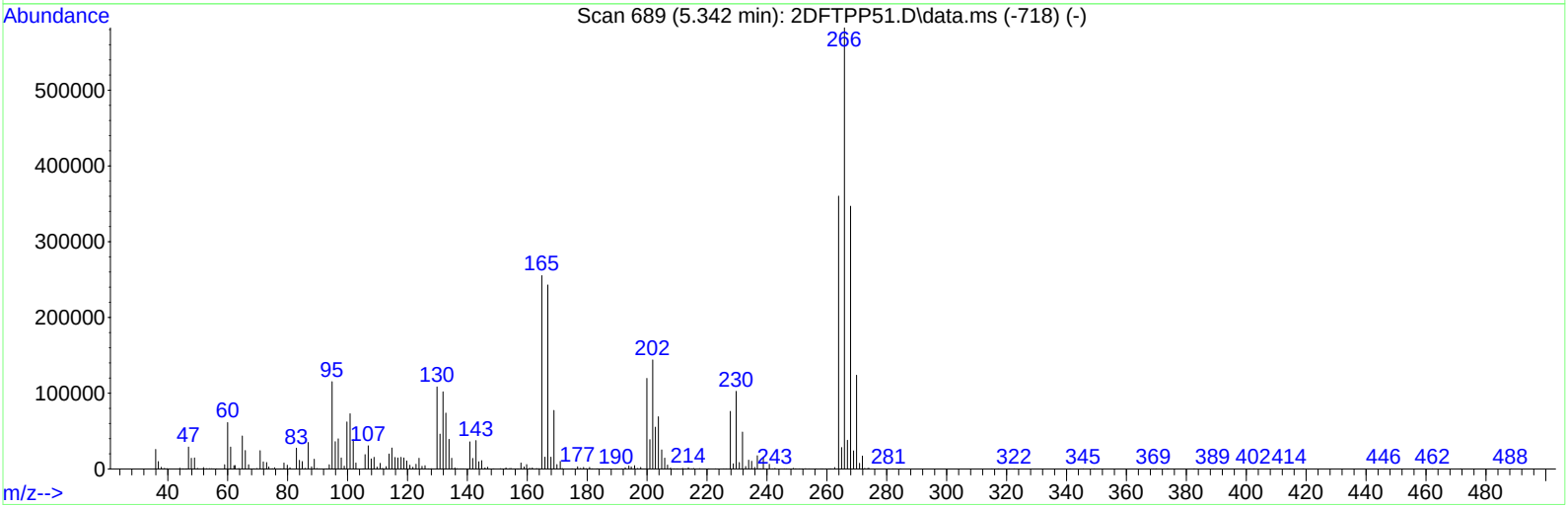
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	41.5	331346	PASS
68	69	0.00	2	1.1	2407	PASS
69	198	0.00	100	27.3	217600	PASS
70	69	0.00	2	0.6	1201	PASS
127	198	40	60	45.8	365461	PASS
197	198	0.00	1	0.1	711	PASS
198	198	100	100	100.0	797888	PASS
199	198	5	9	6.5	51626	PASS
275	198	10	30	21.3	169621	PASS
365	198	1	100	1.6	12870	PASS
441	443	0.01	100	79.3	119989	PASS
442	198	40	100	91.9	733397	PASS
443	442	17	23	20.6	151325	PASS

Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\2S120210B\2DFTPP51.D Vial: 1
Acq On : 2 Dec 2010 11:11 Operator: RPN
Sample : DFTPP SVMS4646 Inst : SVMS2
Misc : SVMS2,25 ng DFTPP Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 17:07:21 2010

Quant Method : C:\INSTARCH\METHOD\2DFTPP.M
Quant Title : DFTPP TUNE Method
QLast Update : Thu Dec 02 17:07:17 2010
Response via : Initial Calibration
DataAcq Meth:2DFTPP.M





TIC: 2DFTPP51.D\data.ms

(1) Pentachlorophenol

5.342min (0.000) 40.66 ng

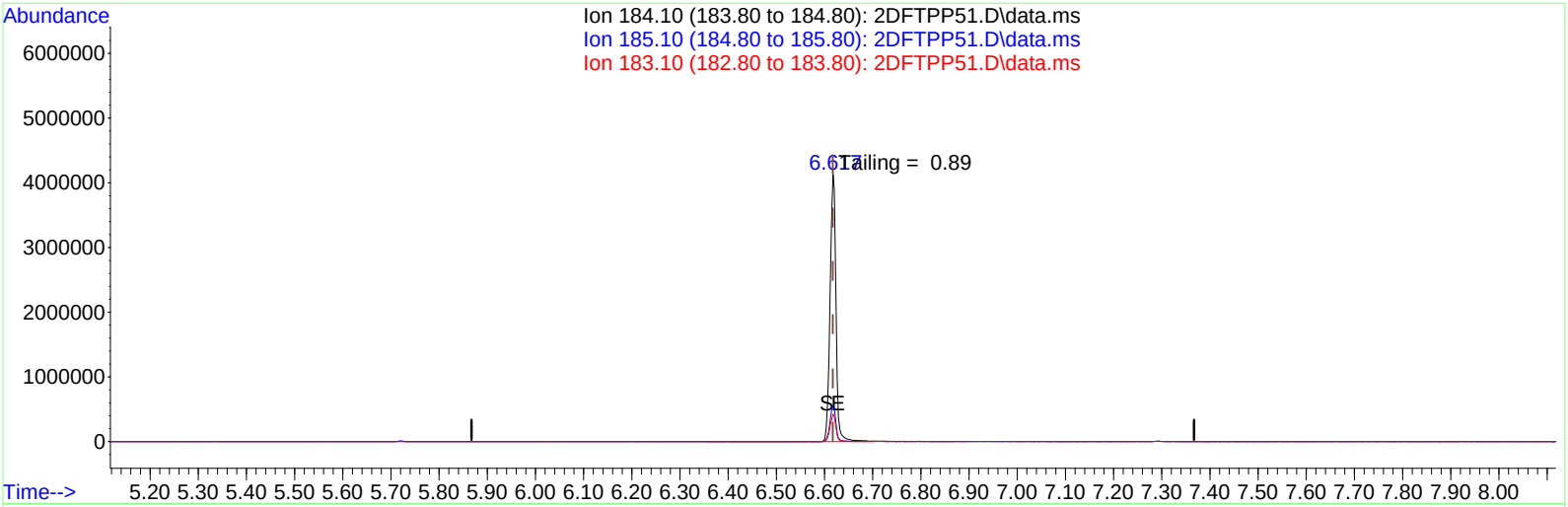
response 480585

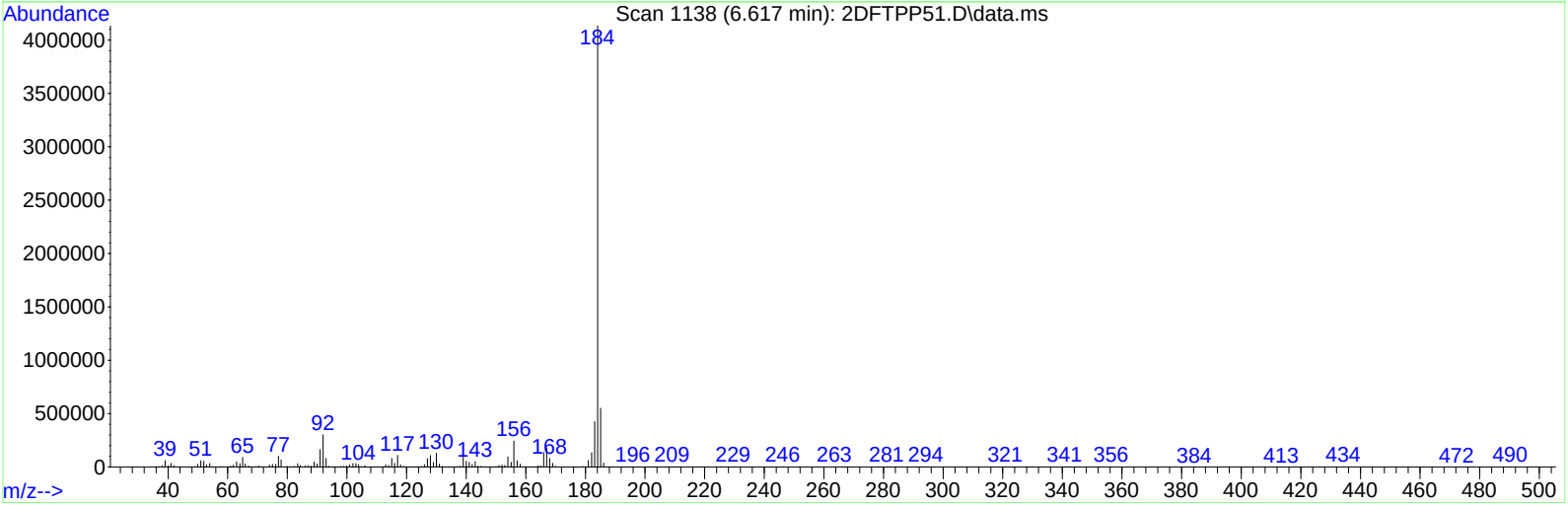
Ion	Exp%	Act%
265.90	100	100
263.90	61.70	61.89
267.90	60.80	59.45
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\2S120210B\2DFTPP51.D Vial: 1
Acq On : 2 Dec 2010 11:11 Operator: RPN
Sample : DFTPP SVMS4646 Inst : SVMS2
Misc : SVMS2,25 ng DFTPP Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 17:07:21 2010

Quant Method : C:\INSTARCH\METHOD\2DFTPP.M
Quant Title : DFTPP TUNE Method
QLast Update : Thu Dec 02 17:07:17 2010
Response via : Initial Calibration
DataAcq Meth:2DFTPP.M





TIC: 2DFTPP51.D\data.ms

(3) Benzidine

6.617min (0.000) 58.83 ng

response 3524555

Ion	Exp%	Act%
184.10	100	100
185.10	14.10	13.69
183.10	10.30	10.28
0.00	0.00	0.00

Data File	: 2DFTPP51.D	Vial Number	: 1
Data File Path	: C:\INSTARCH\DATA\2S120210B\	Operator	: RPN
Date Acquired	: 12/2/2010 11:11	Instrument Name:	SVMS2
Sample Name	: DFTPP SVMS4646	Sample Multiplier:	1
Misc Info	: SVMS2,25 ng DFTPP		

Quant Method	: C:\INSTARCH\METHOD\2DFTPP.M
Calibration Title	: DFTPP TUNE Method
Last Update	: Thu Dec 02 17:07:17 2010

Compound	R.T.	QIon	Response
1) Pentachlorophenol	5.34	266	480585
2) DFTPP	5.72	198	620994
3) Benzidine	6.62	184	3524555
4) DDE	6.77	246	2165
5) DDD	7.07	235	52011
6) DDT	7.29	235	1595160

DDT %Degradation

$$\frac{DDD + DDE}{DDD + DDE + DDT} \times 100\% = 3.28\ \%$$

Response Factor Report SVMS2

Method Path : C:\INSTARCH\METHOD\
Method File : 2S120210.M
Title : Method for 8270 analysis for instrument SVMS2
Last Update : Thu Dec 02 14:33:20 2010
Response Via : Initial Calibration

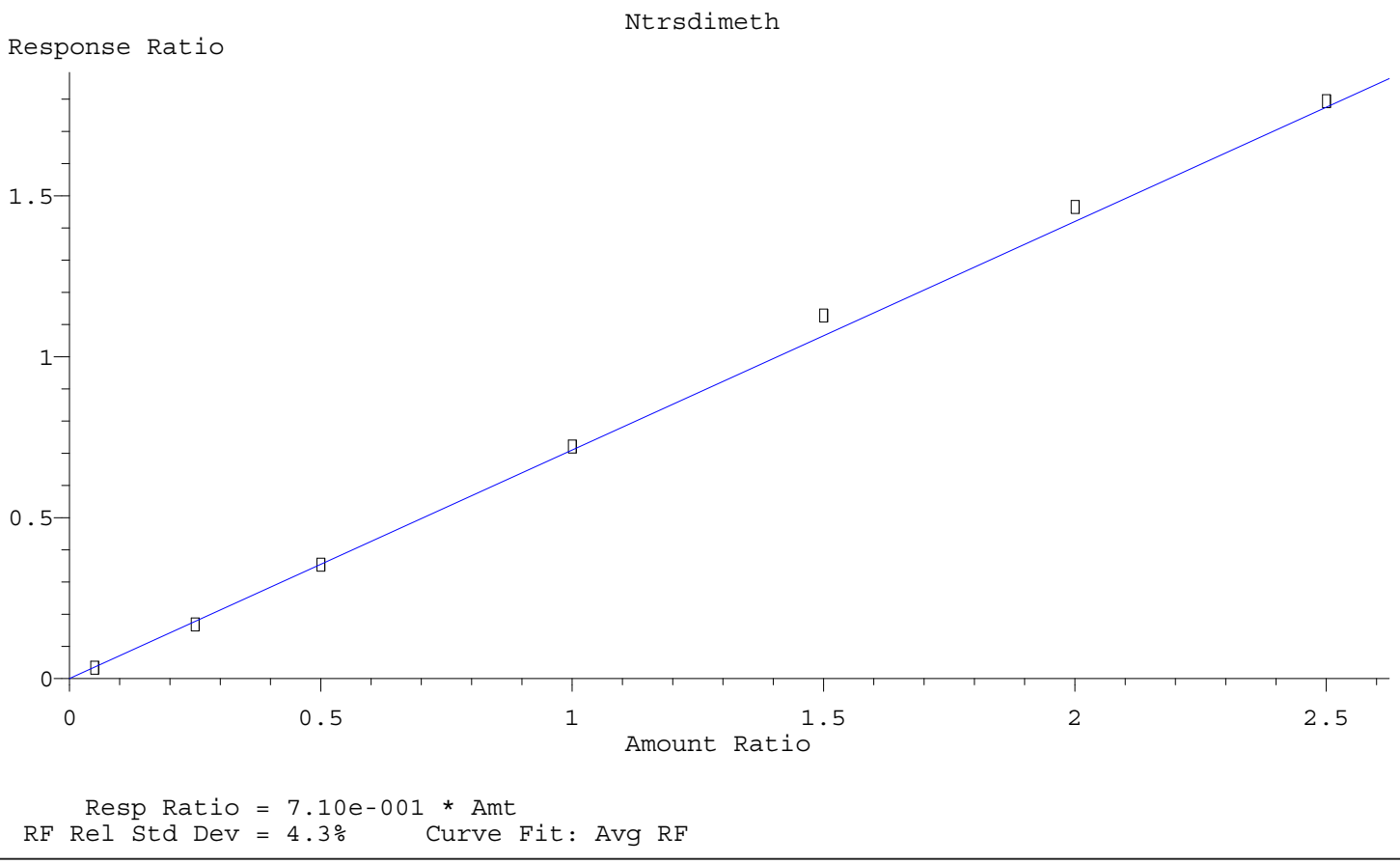
Calibration Files
1 =2ICAL1.D 5 =2ICAL2.D 10 =2ICAL3.D 20 =2ICAL4.D 30 =2ICAL5.D 40 =2ICAL6.D 50 =2ICAL7.D

	Compound	1	5	10	20	30	40	50	Avg	%RSD
1)	I 14Diclbenzd4	----------ISTD----------								
2)	TM Ntrsdimeth	0.669	0.672	0.707	0.721	0.752	0.732	0.718	0.710	4.28
3)	TM Pyridine	1.159	1.140	1.234	1.297	1.337	1.340	1.325	1.262	6.73
4)	S SURR2Flphenol	0.452	0.469	0.502	0.509	0.527	0.519	0.507	0.498	5.49
5)	TM Aniline	1.817	1.799	1.946	1.963	2.017	2.007	1.945	1.928	4.48
6)	TM bis2Clethletr	1.142	1.173	1.193	1.213	1.238	1.229	1.189	1.197	2.78
7)	S SURRPhenol-d5	0.552	0.582	0.597	0.603	0.625	0.623	0.603	0.598	4.17
8)	CTM Phenol	1.330	1.390	1.477	1.514	1.555	1.546	1.507	1.474	5.68
9)	TM 2-Cl-phenol	1.325	1.253	1.340	1.340	1.383	1.407	1.351	1.343	3.62
10)	TM 13Diclbenz	1.527	1.468	1.578	1.557	1.605	1.594	1.529	1.551	3.06
11)	CTM 14Diclbenz	1.618	1.516	1.568	1.580	1.625	1.588	1.535	1.576	2.54
12)	TM 12Diclbenz	1.478	1.435	1.538	1.490	1.541	1.528	1.456	1.495	2.79
13)	TM Benzyl alcoho	0.189	0.427	0.609	0.705	0.760	0.776	0.763	0.604	36.58
14)	TM bis2clispreth	2.289	2.175	2.254	2.267	2.322	2.356	2.290	2.279	2.50
15)	TM 2Methylphenol	1.076	1.082	1.102	1.138	1.166	1.185	1.141	1.127	3.71
16)	TM Ntrspyrrol	0.498	0.573	0.594	0.630	0.645	0.628	0.603	0.596	8.35
17)	TM Acetophenone	1.637	1.615	1.698	1.701	1.744	1.718	1.662	1.682	2.73
18)	TM Hexaclethane	0.535	0.493	0.514	0.536	0.550	0.536	0.515	0.526	3.64
19)	PTM N-Ntrsdinprop	0.711	0.718	0.772	0.758	0.786	0.773	0.752	0.753	3.77
20)	TM 3&4Methylphenol	0.943	1.135	1.188	1.157	1.175	1.152	1.120	1.124	7.40
21)	I Naphthalened8	----------ISTD----------								
22)	S SURRNitrbenzened5	0.041	0.047	0.050	0.049	0.051	0.051	0.049	0.048	7.17
23)	TM Nitrobenzene	0.224	0.238	0.247	0.255	0.254	0.257	0.251	0.247	4.78
24)	TM Isophorone	0.481	0.517	0.555	0.554	0.572	0.574	0.556	0.544	6.14
25)	CTM 2-Nitrophenol	0.151	0.184	0.192	0.191	0.193	0.193	0.187	0.184	8.11
26)	TM 24Dimthpheno	0.267	0.263	0.280	0.287	0.290	0.289	0.281	0.279	3.85
27)	TM bis2clethoxym	0.378	0.364	0.381	0.377	0.381	0.378	0.367	0.375	1.77
28)	CTM 24Diclphenol	0.213	0.252	0.262	0.271	0.281	0.278	0.269	0.261	8.97
29)	TM 124Triclbenz	0.328	0.308	0.327	0.327	0.333	0.326	0.311	0.323	2.89
30)	TM Benzoic acid		0.095	0.151	0.184	0.200	0.211	0.206	0.175	25.63
31)	TM Naphthalene	1.002	0.992	1.046	1.033	1.045	1.038	0.990	1.021	2.45
32)	TM 4-Cl-aniline	0.354	0.369	0.395	0.394	0.401	0.391	0.376	0.383	4.47
33)	TM 26Diclphenol	0.213	0.236	0.246	0.249	0.244	0.238	0.226	0.236	5.44
34)	TM Hexaclprop	0.144	0.154	0.165	0.175	0.178	0.177	0.169	0.166	7.67
35)	CTM Hexaclbutdien	0.152	0.147	0.153	0.153	0.156	0.155	0.146	0.152	2.55
36)	CTM 4Cl3methylphe	0.214	0.235	0.255	0.262	0.261	0.265	0.255	0.250	7.35
37)	TM 2Methylnaphth	0.564	0.555	0.587	0.585	0.584	0.571	0.542	0.570	2.98
38)	TM 1Methylnaphth	0.568	0.579	0.621	0.607	0.607	0.593	0.564	0.591	3.66
39)	I Acenaphthened10	----------ISTD----------								
40)	PTM Hxclcycpentdi	0.216	0.281	0.318	0.331	0.347	0.344	0.333	0.310	15.18
41)	TM 1245Tetrclbenz	0.529	0.519	0.546	0.535	0.553	0.535	0.511	0.533	2.73
42)	CTM 246Triclpheno	0.297	0.334	0.359	0.363	0.376	0.369	0.359	0.351	7.78

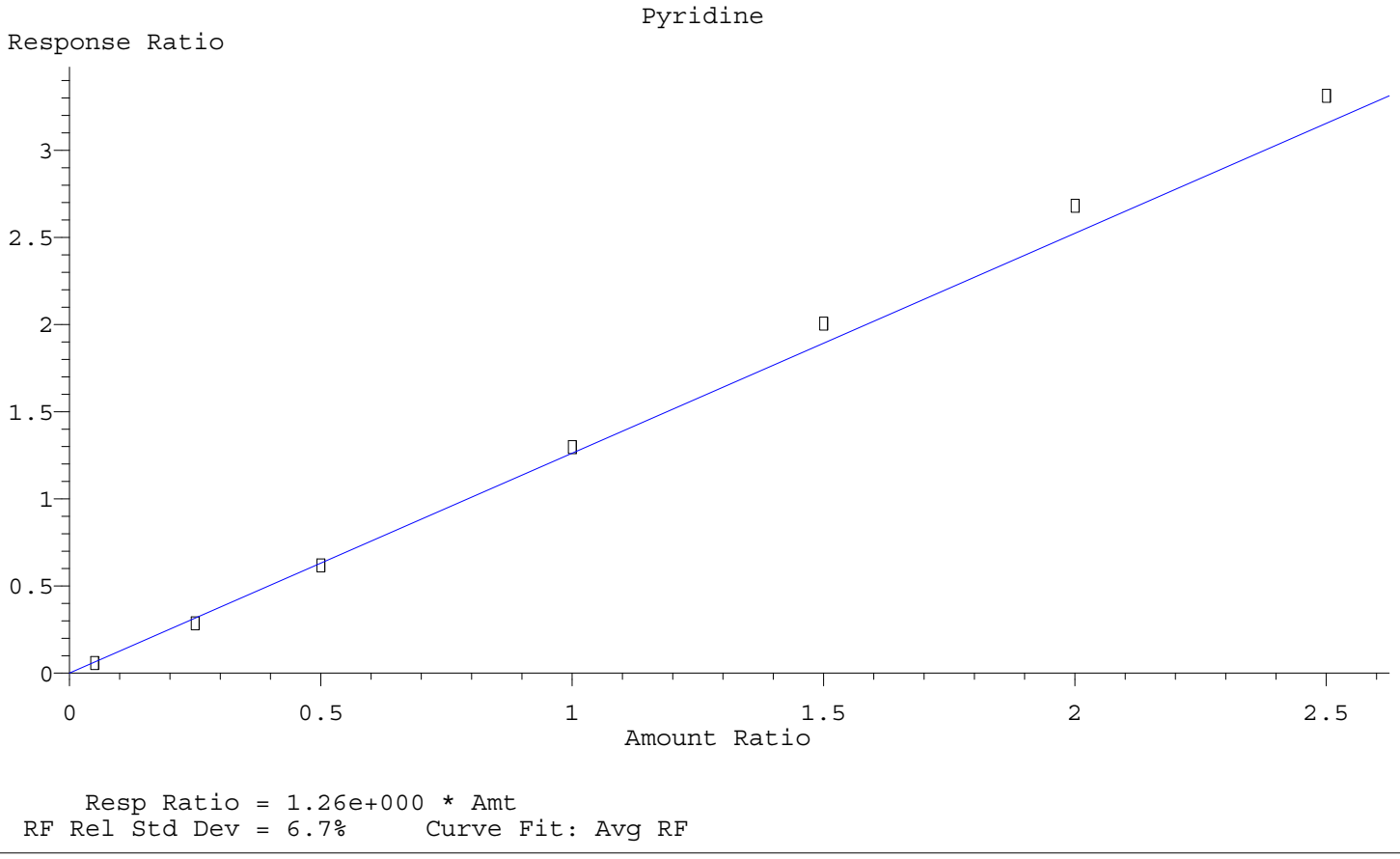
Method Path : C:\INSTARCH\METHOD\
Method File : 2S120210.M

43)	TM	245Triclpheno	0.332	0.342	0.374	0.385	0.400	0.391	0.384	0.373	6.86
44)	S	SURR2Flbiphenyl	0.252	0.258	0.271	0.266	0.270	0.263	0.251	0.262	3.16
45)	TM	2Clnaphthalen	1.116	1.101	1.194	1.181	1.199	1.169	1.128	1.155	3.45
46)	TM	2Nitroaniline	0.230	0.259	0.279	0.280	0.285	0.281	0.274	0.270	7.15
47)	TM	Acnaphthylene	1.990	1.950	2.080	2.006	2.010	1.955	1.865	1.979	3.36
48)	TM	Dimethylphtha	1.291	1.318	1.404	1.384	1.411	1.378	1.318	1.358	3.51
49)	TM	26Dinitrotolu	0.251	0.293	0.307	0.302	0.309	0.303	0.291	0.294	6.84
50)	CTM	Acenaphthene	1.251	1.232	1.292	1.257	1.279	1.230	1.170	1.244	3.21
51)	TM	3Nitroaniline	0.275	0.311	0.293	0.317	0.338	0.337	0.329	0.314	7.43
52)	PTM	24Dinitphenol		0.108	0.146	0.169	0.185	0.190	0.185	0.164	19.34
53)	TM	Dibenzofuran	1.676	1.618	1.716	1.642	1.644	1.566	1.473	1.619	4.92
54)	TM	24Dinitrotolu	0.309	0.365	0.389	0.387	0.384	0.364	0.347	0.364	7.81
55)	PTM	4-Nitrophenol		0.091	0.102	0.099	0.106	0.103	0.103	0.101	4.99
56)	TM	2,3,5,6-Tetrac...	0.170	0.243	0.271	0.289	0.288	0.290	0.282	0.262	16.68
57)	TM	2,3,4,6-Tetrac...	0.190	0.265	0.285	0.295	0.307	0.301	0.293	0.277	14.59
58)	TM	Fluorene	1.429	1.318	1.369	1.295	1.285	1.255	1.188	1.306	5.95
59)	TM	4Clphlphlethr	0.595	0.583	0.622	0.586	0.593	0.559	0.527	0.581	5.18
60)	TM	Diethylphthal	1.303	1.355	1.432	1.389	1.415	1.369	1.331	1.370	3.32
61)	TM	4Nitroaniline	0.290	0.323	0.314	0.311	0.302	0.322	0.297	0.308	4.10
62)	S	SURR246Tribrphenl	0.050	0.057	0.058	0.064	0.065	0.065	0.064	0.060	9.60
63)	I	Phenanthrd10	----------ISTD----------								
64)	TM	46Dinit2mylph		0.117	0.139	0.148	0.154	0.157	0.155	0.145	10.49
65)	CTM	Ntrsdiphlam&Di...	0.590	0.588	0.630	0.596	0.599	0.589	0.568	0.594	3.13
66)	TM	Azobenz&12Diph...	0.221	0.228	0.241	0.227	0.224	0.220	0.210	0.224	4.16
67)	TM	4Brphlphlethr	0.202	0.210	0.226	0.219	0.222	0.223	0.218	0.217	3.97
68)	TM	Hexaclbenzene	0.217	0.220	0.236	0.225	0.229	0.231	0.219	0.225	3.10
69)	CTM	Pentaclphenol		0.064	0.097	0.108	0.120	0.125	0.125	0.107	21.86#
70)	TM	Phenanthrene	1.049	1.031	1.098	1.051	1.088	1.079	1.027	1.060	2.66
71)	TM	Anthracene	1.044	1.049	1.106	1.069	1.112	1.109	1.036	1.075	3.11
72)	TM	Carbazole	0.904	0.895	0.941	0.900	0.917	0.922	0.898	0.911	1.83
73)	TM	Dinbtylphthal	1.128	1.183	1.281	1.267	1.318	1.296	1.136	1.230	6.43
74)	CTM	Fluoranthene	0.991	0.999	1.079	1.084	1.119	1.119	1.101	1.070	5.01
75)	I	Chrysene-d12	----------ISTD----------								
76)	TM	Benzidine	0.441	0.306	0.287	0.283	0.329	0.348	0.357	0.336	16.20
77)	TM	Pyrene	1.162	1.139	1.203	1.179	1.224	1.224	1.217	1.193	2.78
78)	S	SURRTerphenyl-d14	0.141	0.138	0.148	0.145	0.150	0.147	0.147	0.145	2.87
79)	TM	Btylbzylphth	0.506	0.544	0.608	0.590	0.610	0.609	0.592	0.580	6.90
80)	TM	33Diclbnzidin	0.339	0.256	0.223	0.226	0.236	0.249	0.255	0.255	15.45
81)	TM	B[a]anthracen	1.100	1.062	1.112	1.109	1.136	1.147	1.120	1.112	2.48
82)	TM	Chrysene	1.034	1.010	1.069	1.076	1.098	1.099	1.075	1.066	3.08
83)	TM	bis2Ethlhxlph	0.750	0.812	0.888	0.864	0.884	0.868	0.834	0.843	5.80
84)	CTM	Dinoctylphthl	1.303	1.431	1.542	1.531	1.590	1.564	1.521	1.498	6.62
85)	I	Perylene-d12	----------ISTD----------								
86)	TM	B[b]fluoranth	1.046	1.097	1.230	1.194	1.159	1.235	1.284	1.178	7.09
87)	TM	B[k]fluoranth	1.057	1.006	1.090	1.117	1.240	1.188	1.092	1.113	7.09
88)	CTM	Benz[a]pyrene	0.967	0.969	1.094	1.099	1.119	1.160	1.118	1.075	7.08
89)	TM	Indeno-pyrene	1.003	1.033	1.097	1.121	1.122	1.151	1.116	1.092	4.91
90)	TM	Dib[ah]anthr	0.795	0.819	0.900	0.909	0.917	0.941	0.921	0.886	6.28
91)	TM	B[ghi]perylen	0.822	0.860	0.917	0.928	0.926	0.963	0.933	0.907	5.34

(#) = Out of Range

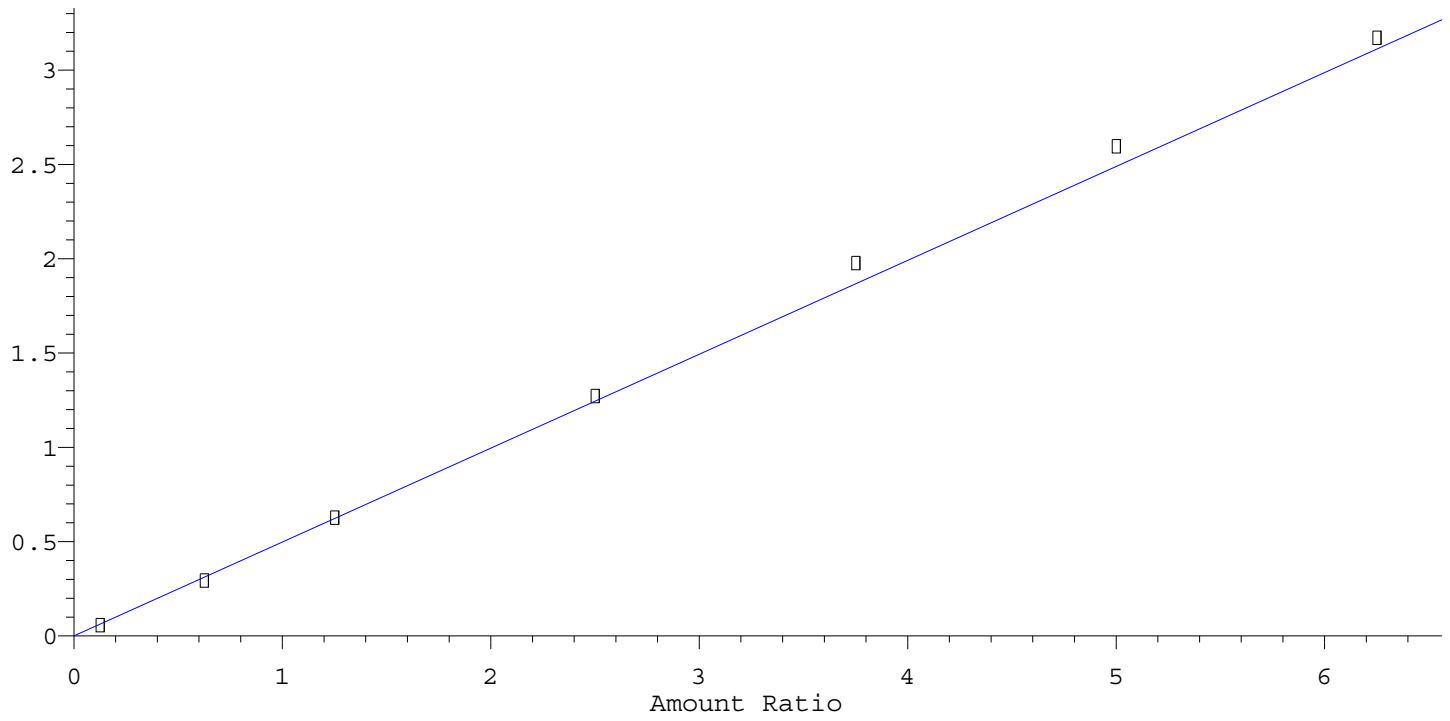


Resp Ratio = 7.10e-001 * Amt
RF Rel Std Dev = 4.3% Curve Fit: Avg RF



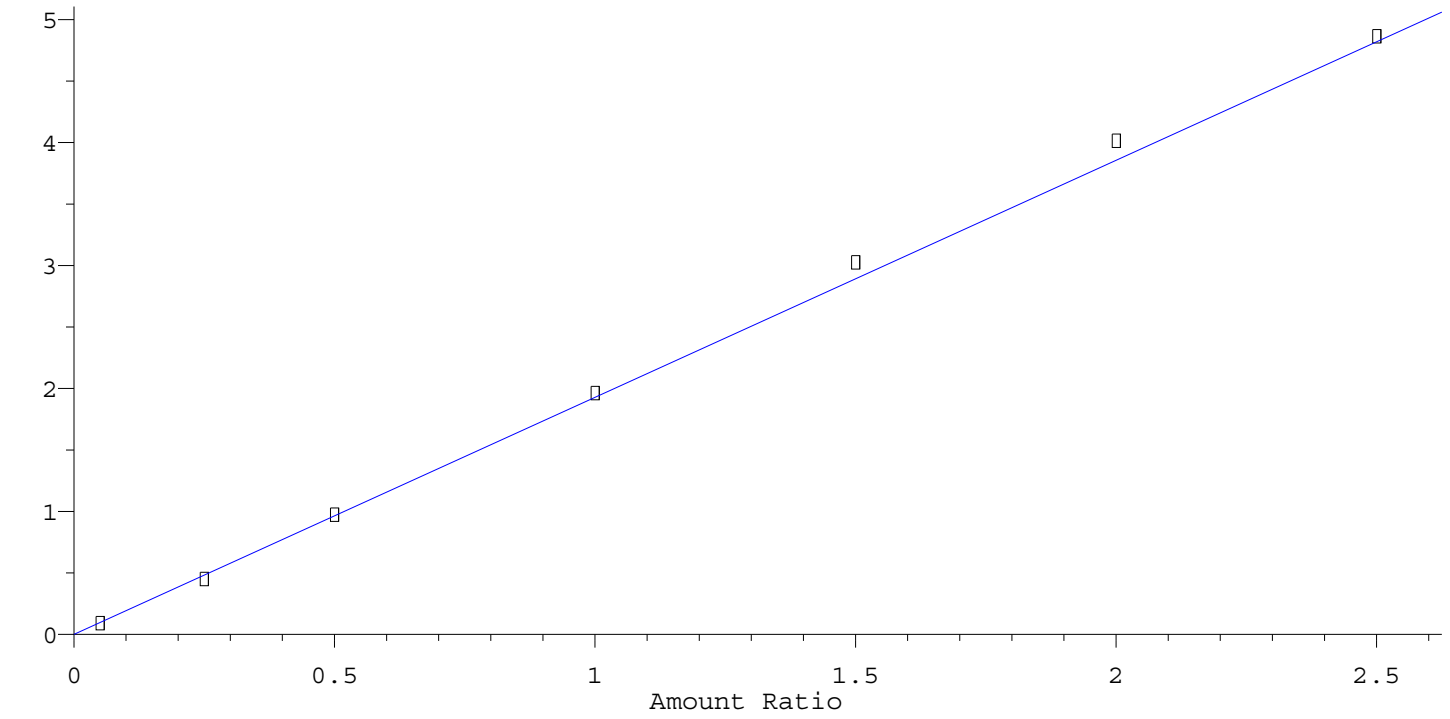
Resp Ratio = 1.26e+000 * Amt
RF Rel Std Dev = 6.7% Curve Fit: Avg RF

SURR2Flphenol

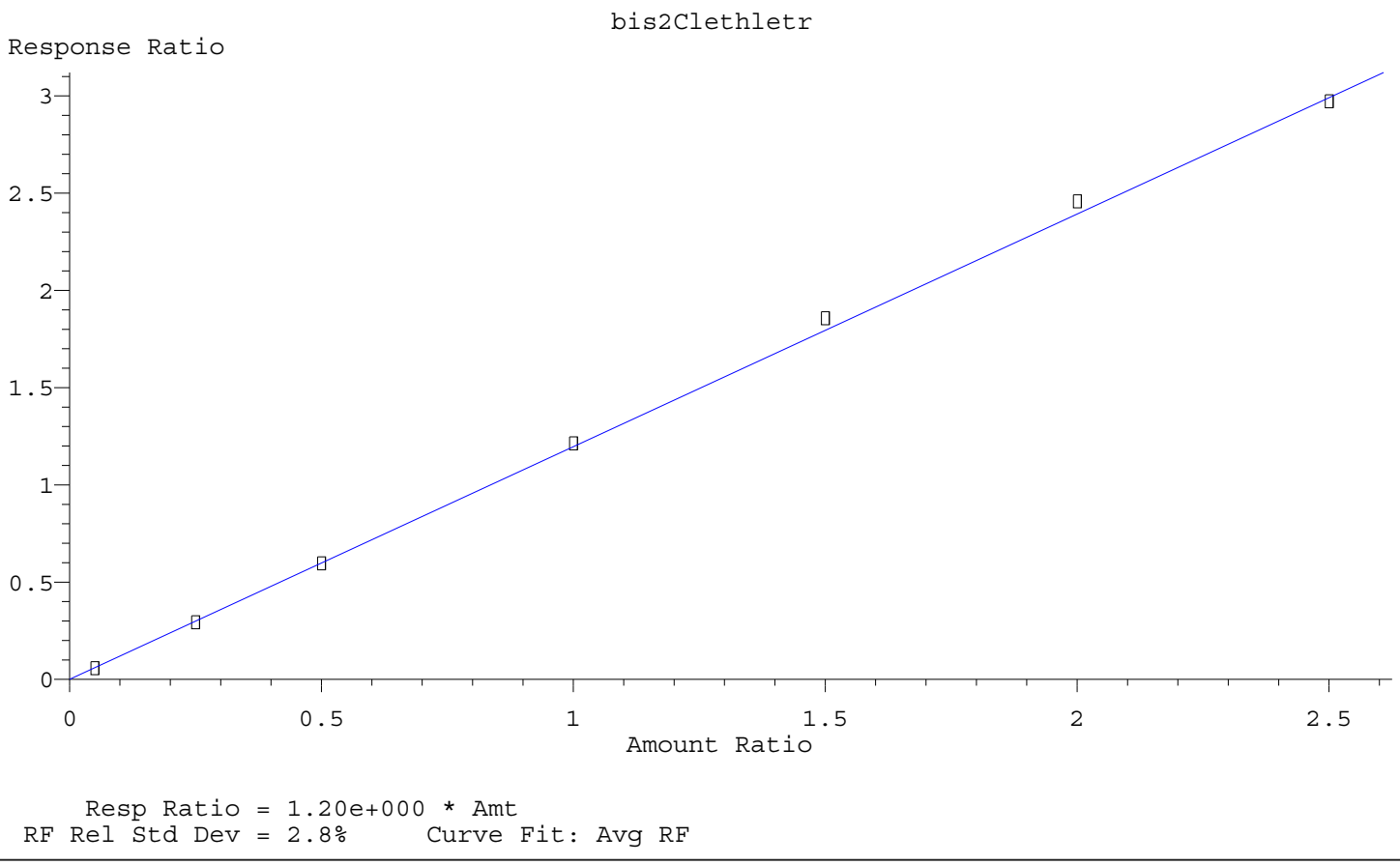


Resp Ratio = 4.98e-001 * Amt
RF Rel Std Dev = 5.5% Curve Fit: Avg RF

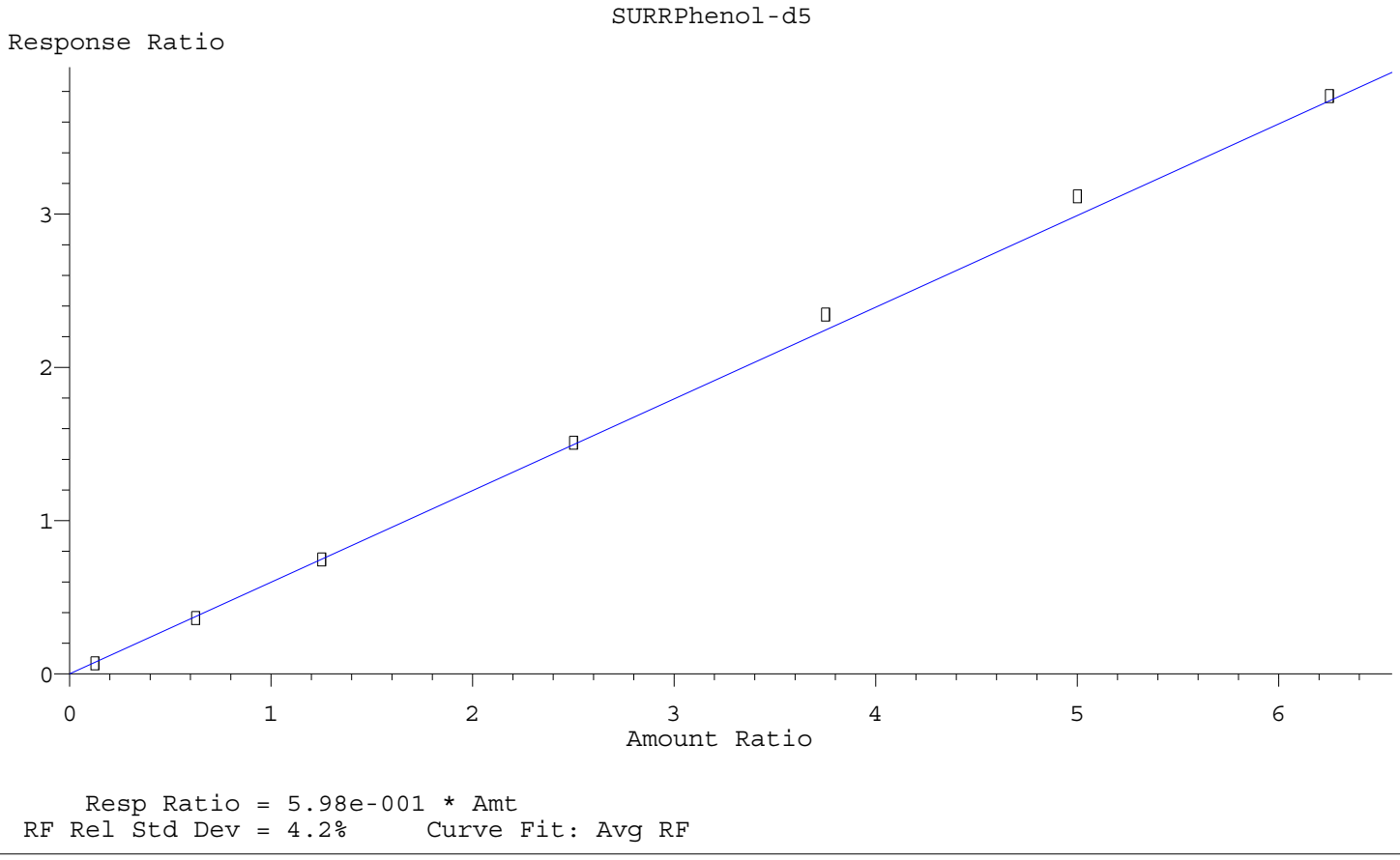
Aniline



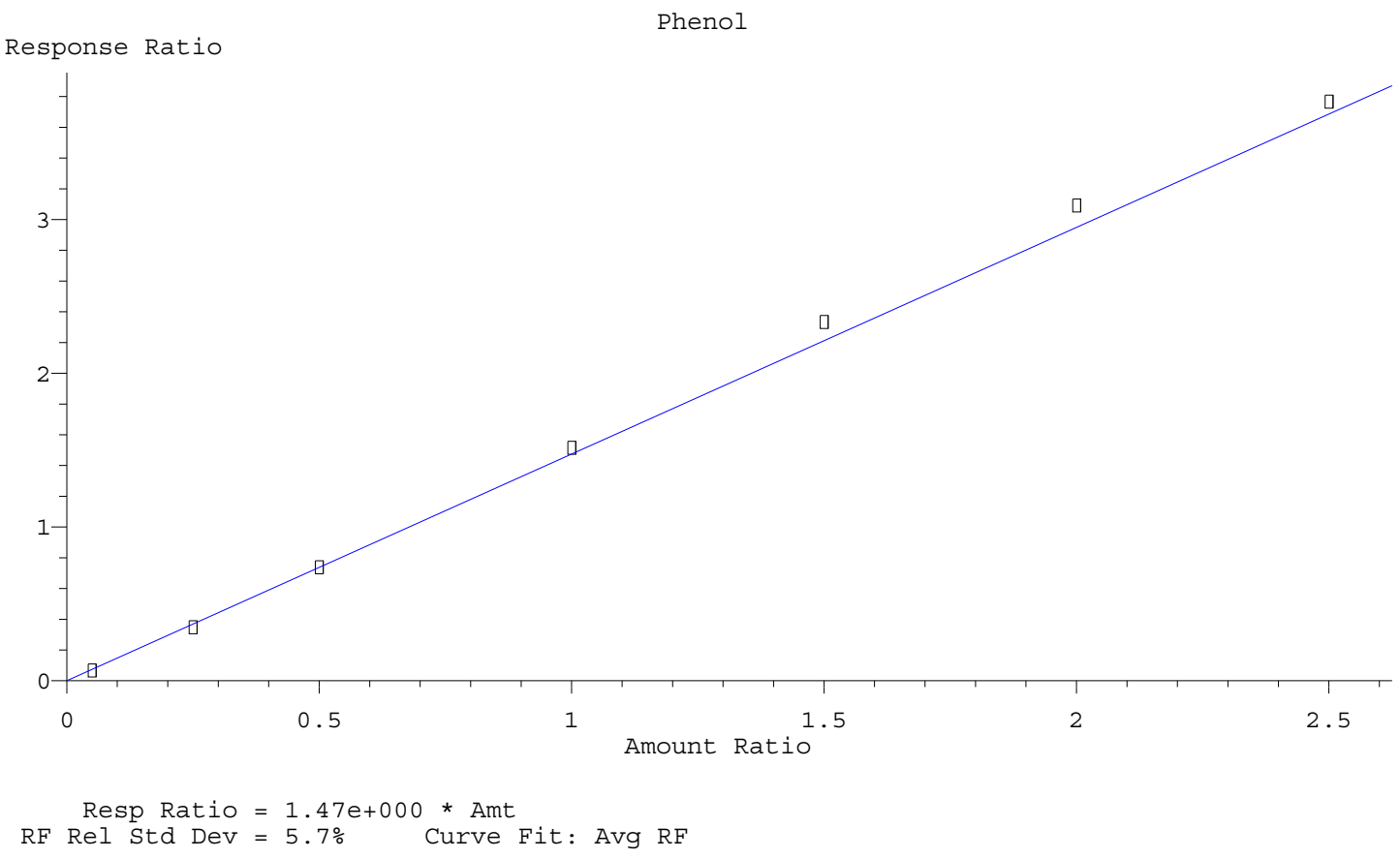
Resp Ratio = 1.93e+000 * Amt
RF Rel Std Dev = 4.5% Curve Fit: Avg RF



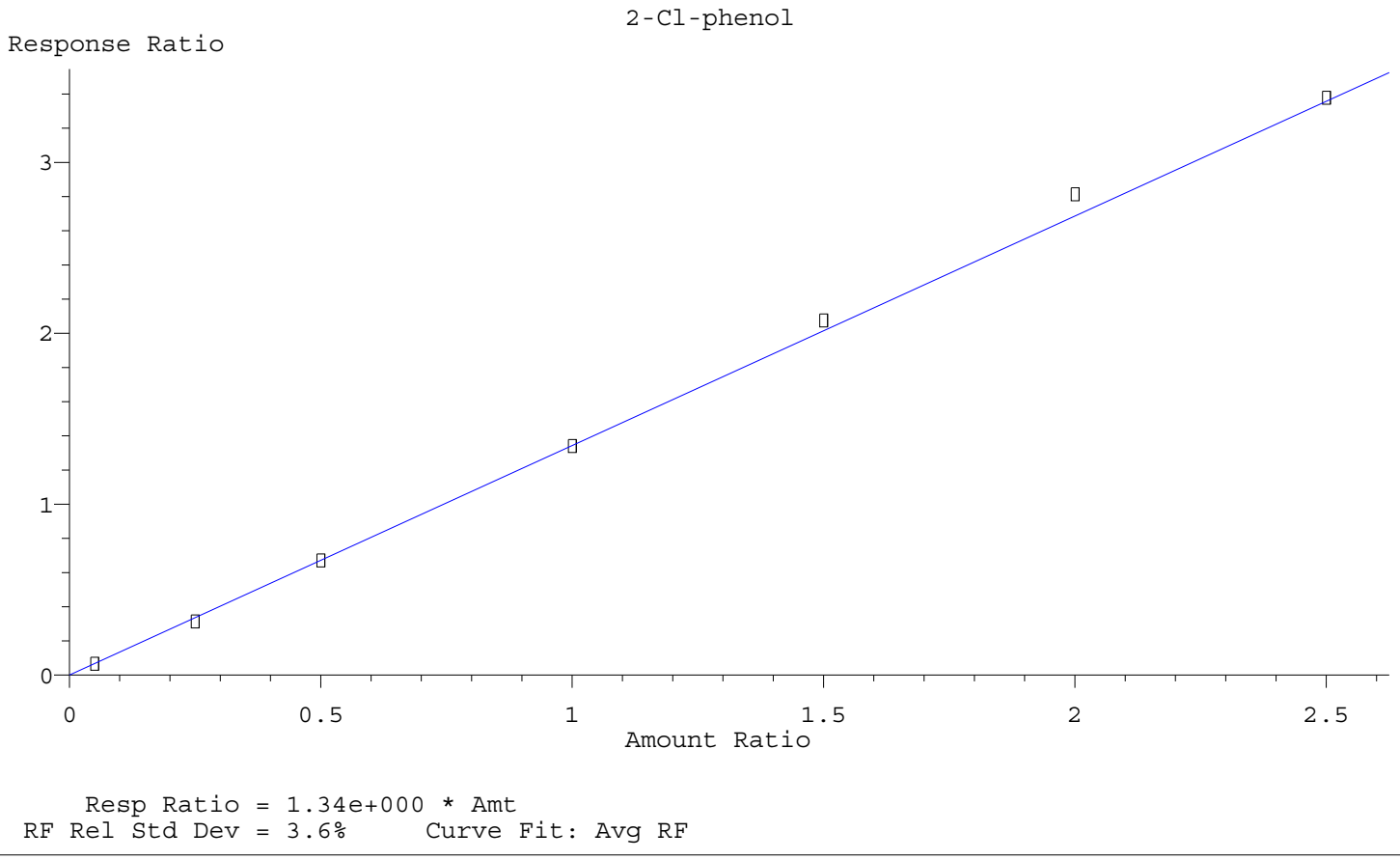
Resp Ratio = 1.20e+000 * Amt
RF Rel Std Dev = 2.8% Curve Fit: Avg RF



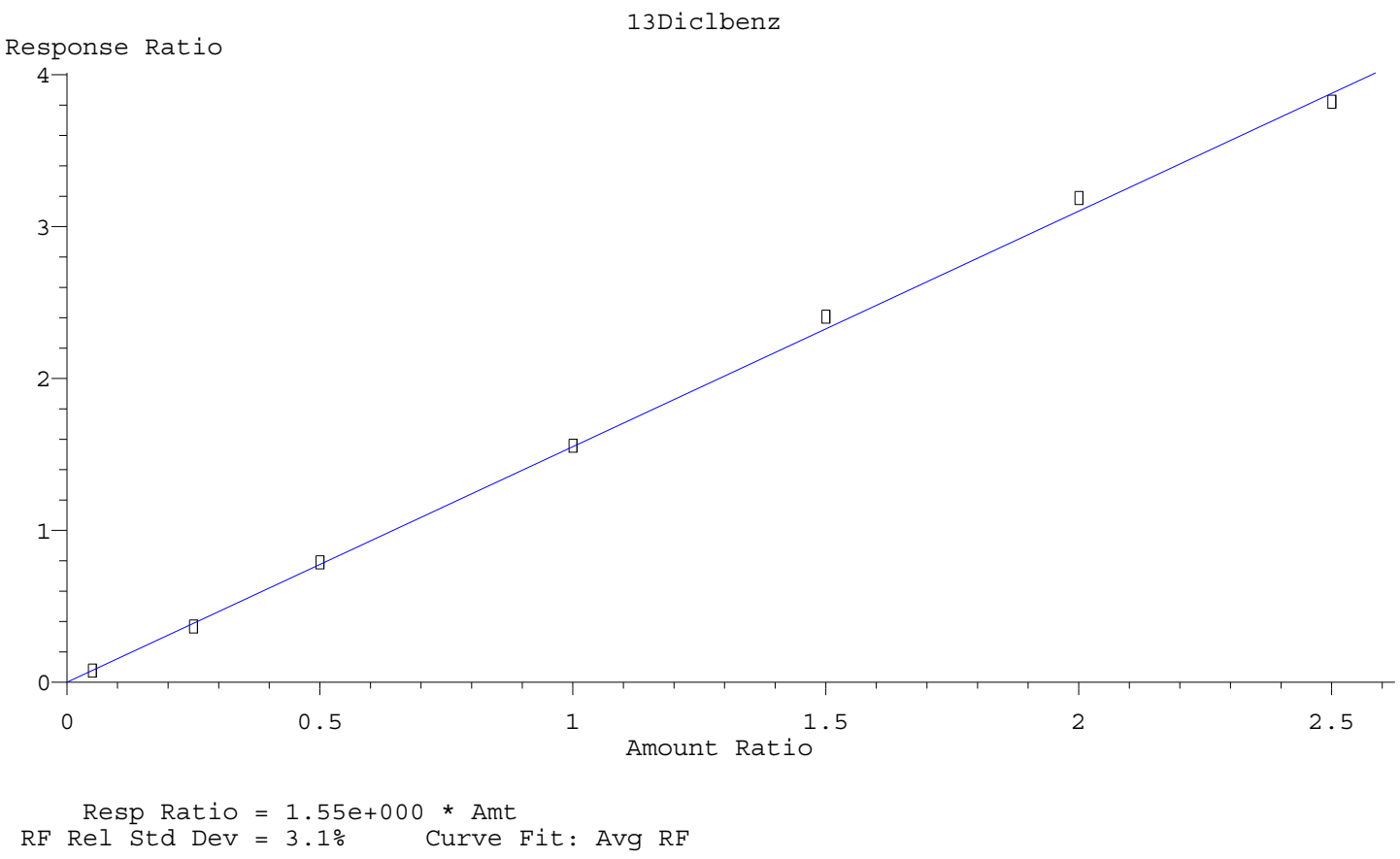
Resp Ratio = 5.98e-001 * Amt
RF Rel Std Dev = 4.2% Curve Fit: Avg RF



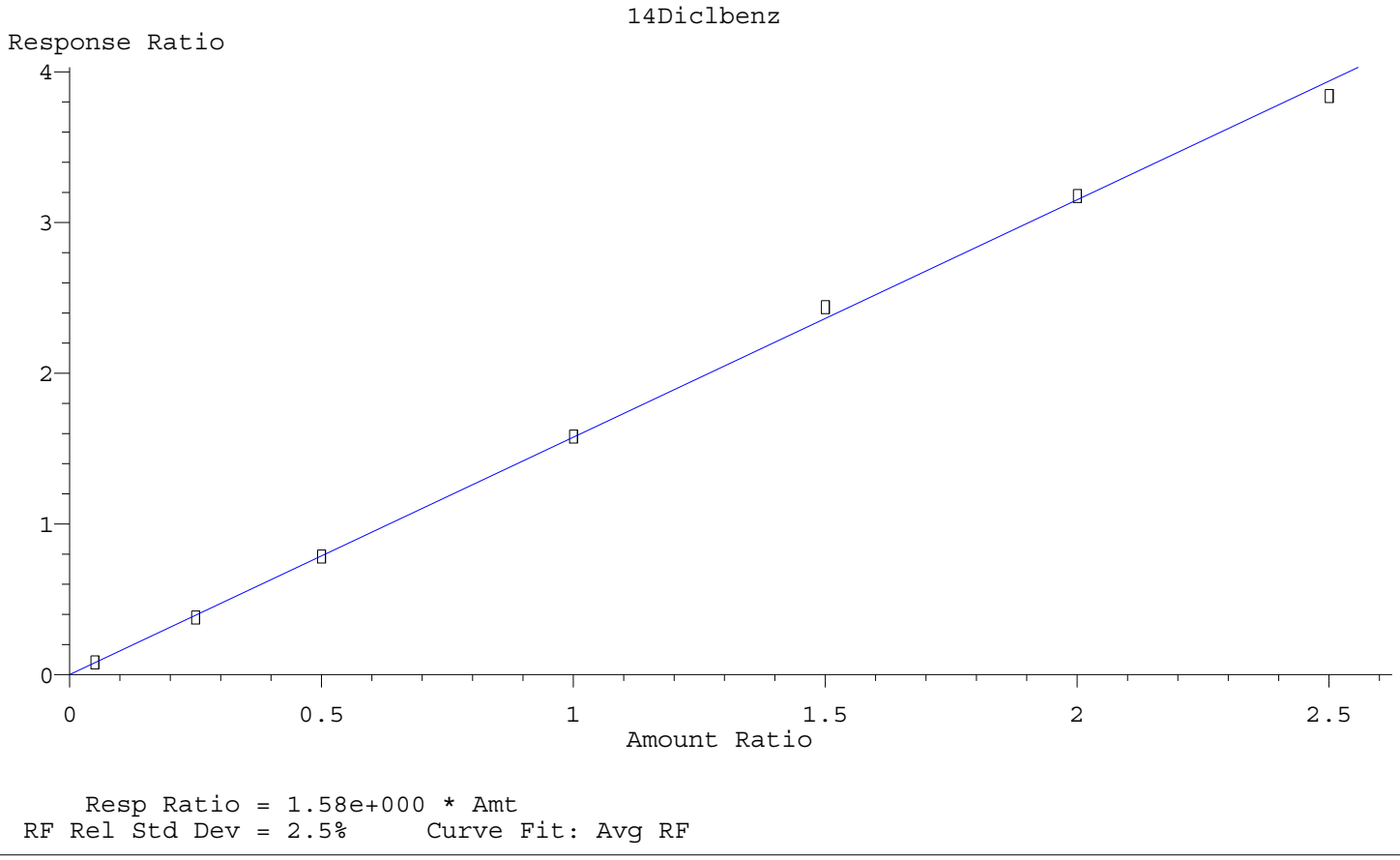
Resp Ratio = 1.47e+000 * Amt
RF Rel Std Dev = 5.7% Curve Fit: Avg RF



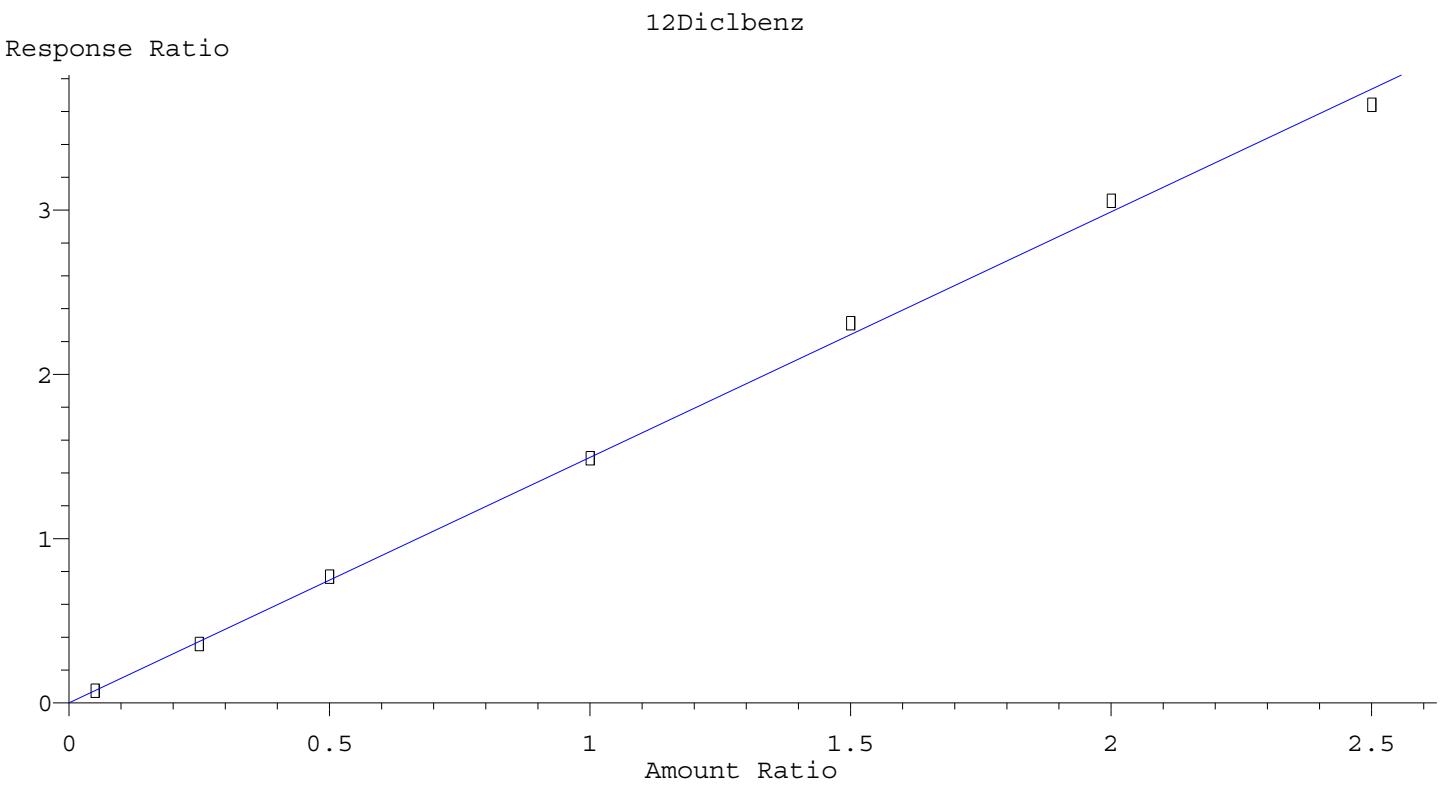
Resp Ratio = 1.34e+000 * Amt
RF Rel Std Dev = 3.6% Curve Fit: Avg RF



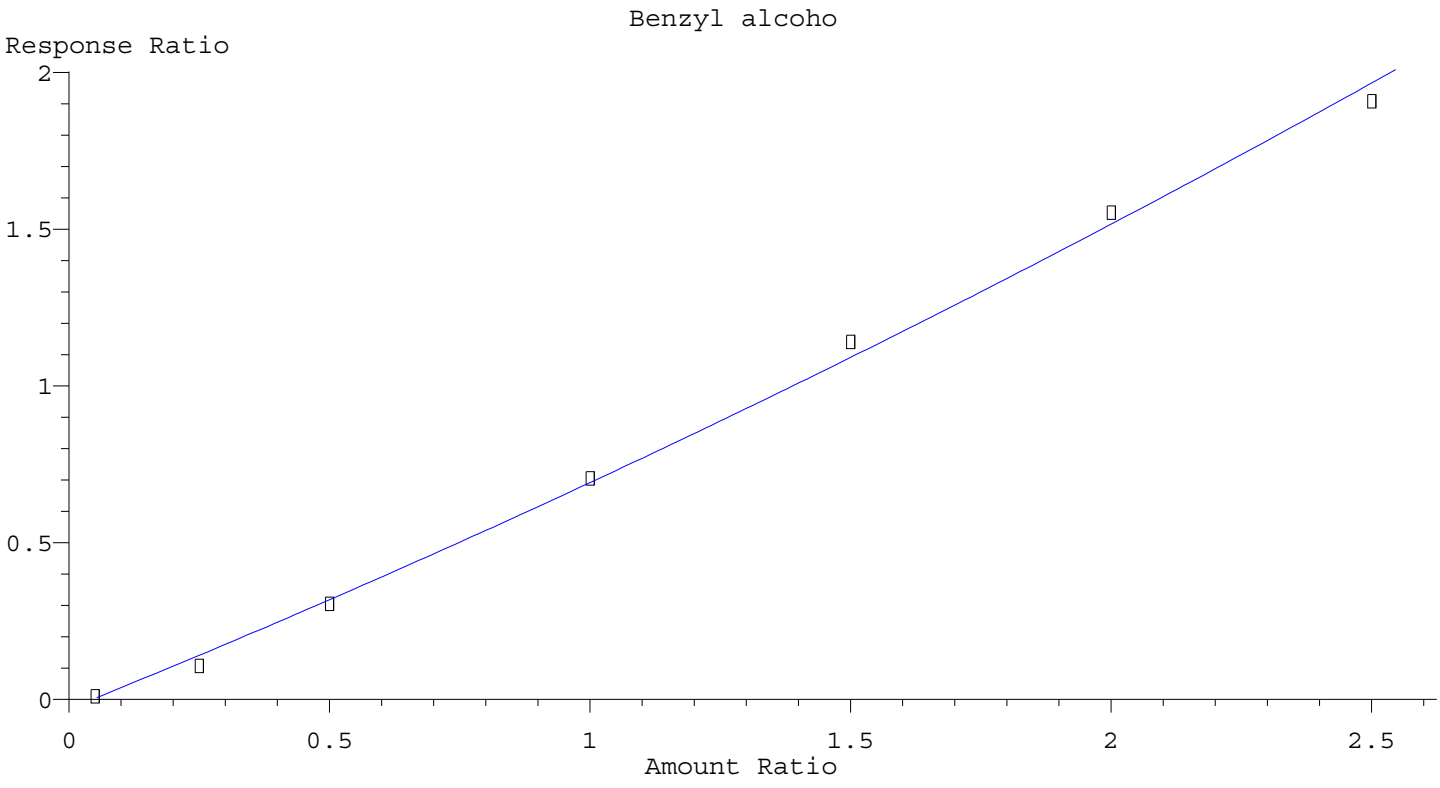
Resp Ratio = 1.55e+000 * Amt
RF Rel Std Dev = 3.1% Curve Fit: Avg RF



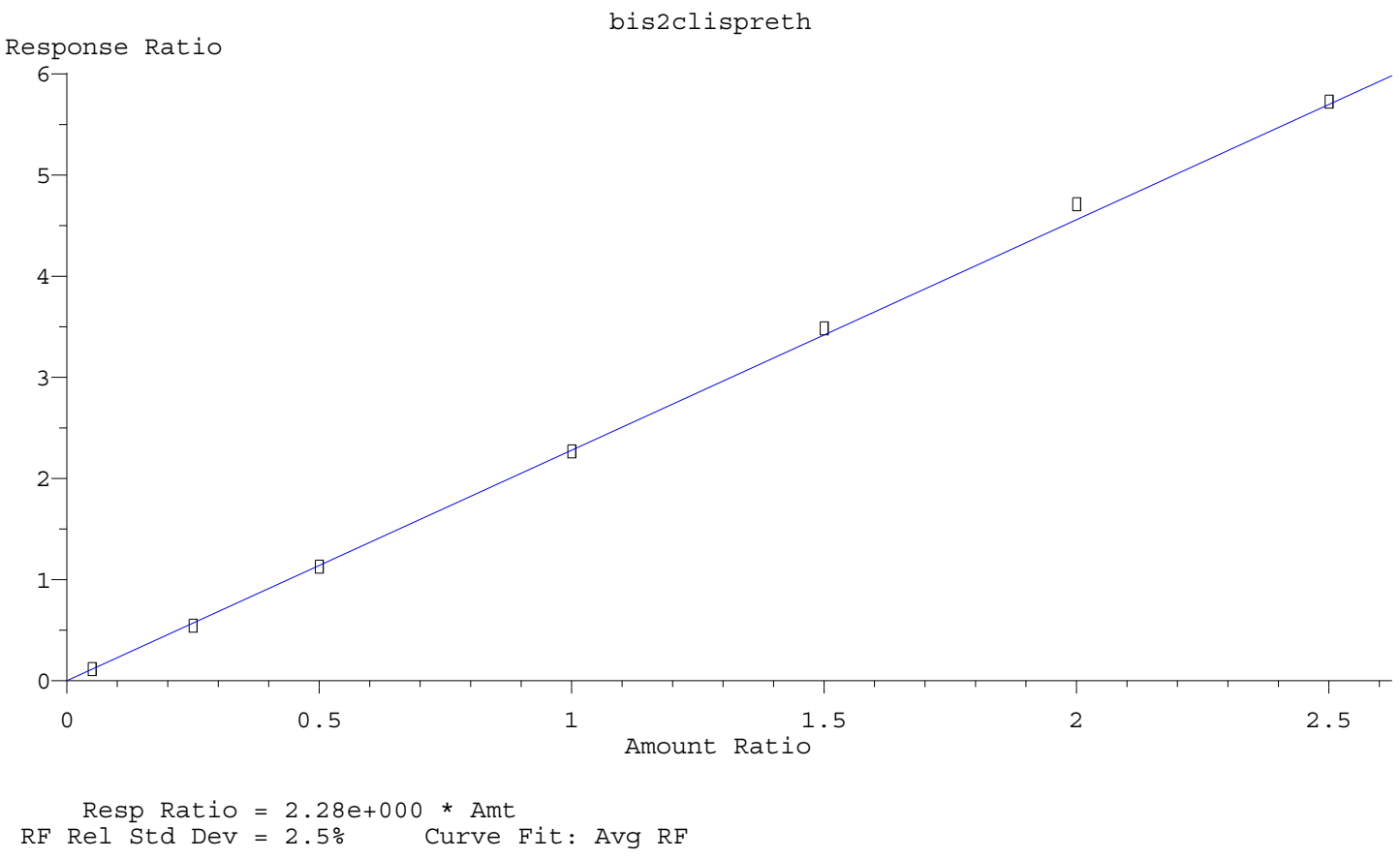
Resp Ratio = 1.58e+000 * Amt
RF Rel Std Dev = 2.5% Curve Fit: Avg RF



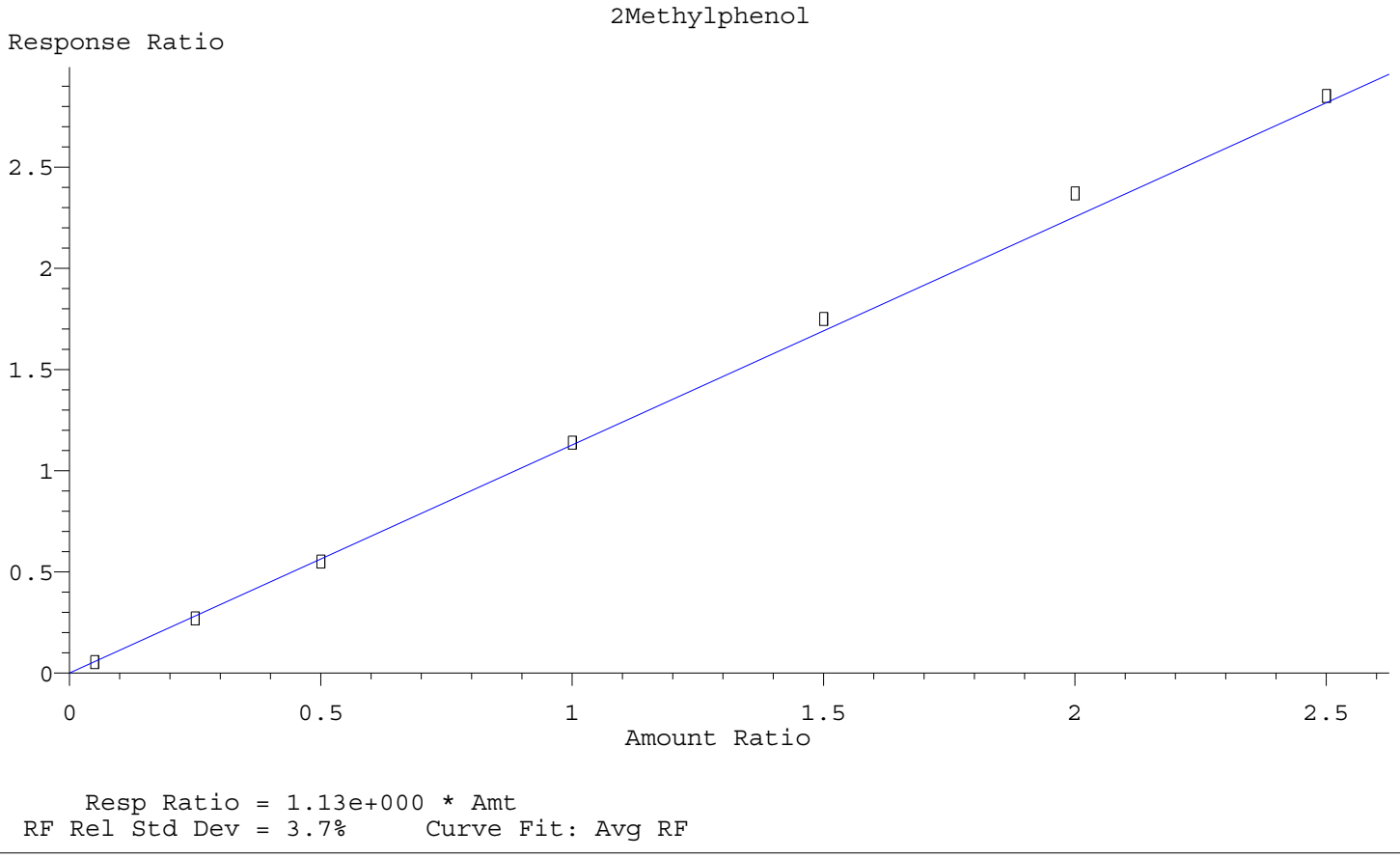
Resp Ratio = 1.50e+000 * Amt
RF Rel Std Dev = 2.8% Curve Fit: Avg RF



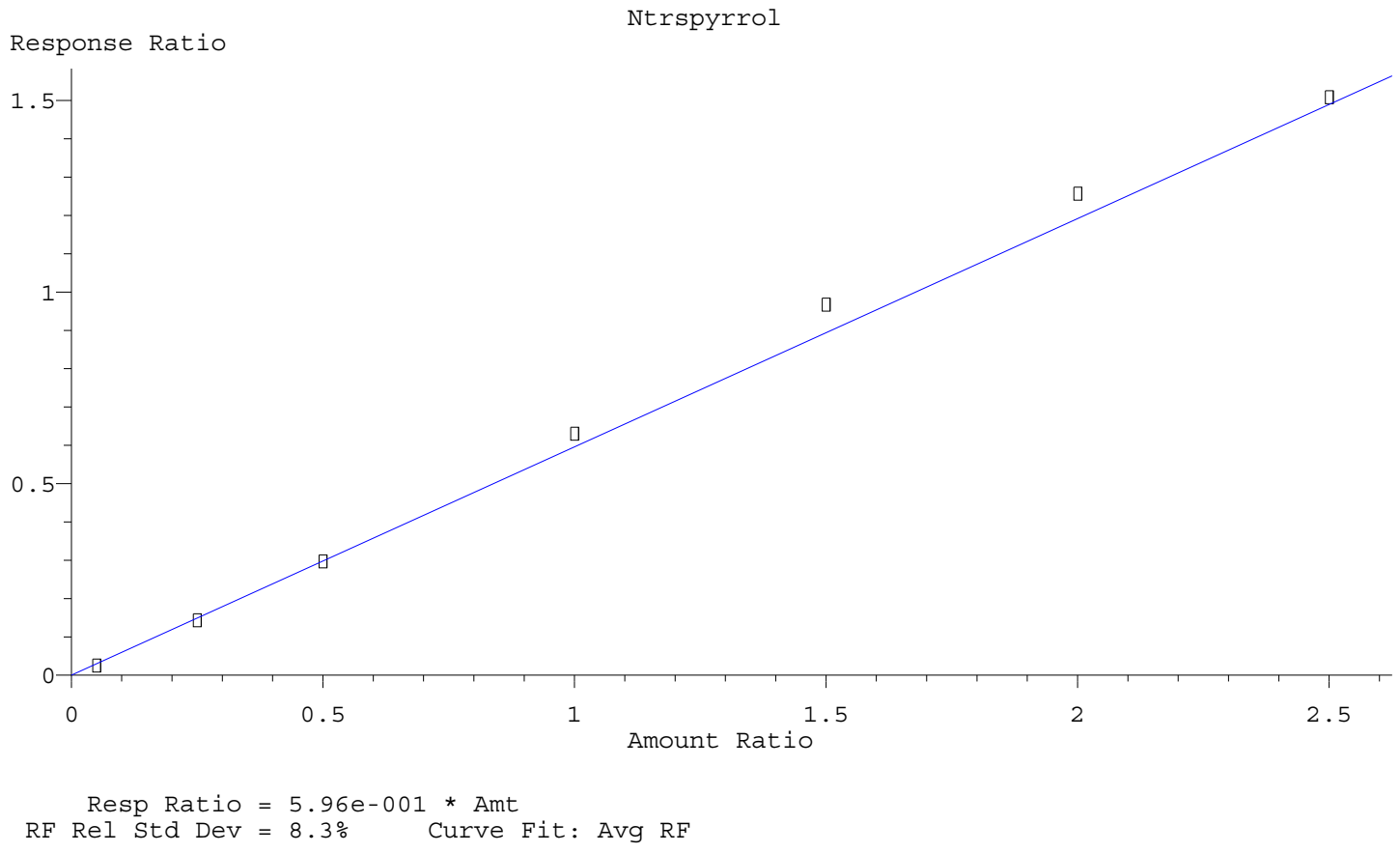
R = 5.12e-002 A*A + 6.71e-001 A - 3.02e-002
Coef of Det (r^2) = 0.997 Curve Fit: Quadratic w(1/a)



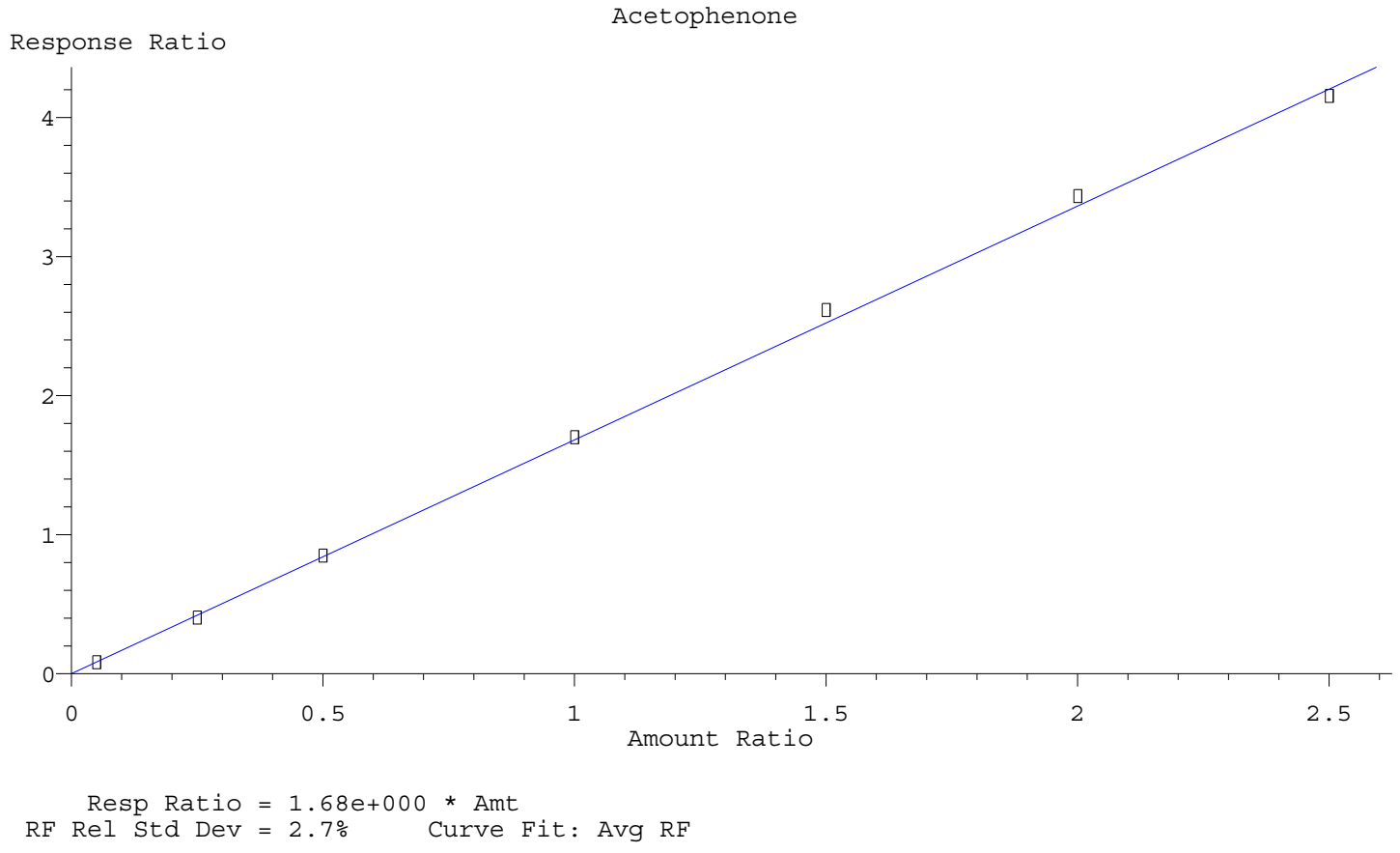
Resp Ratio = 2.28e+000 * Amt
RF Rel Std Dev = 2.5% Curve Fit: Avg RF



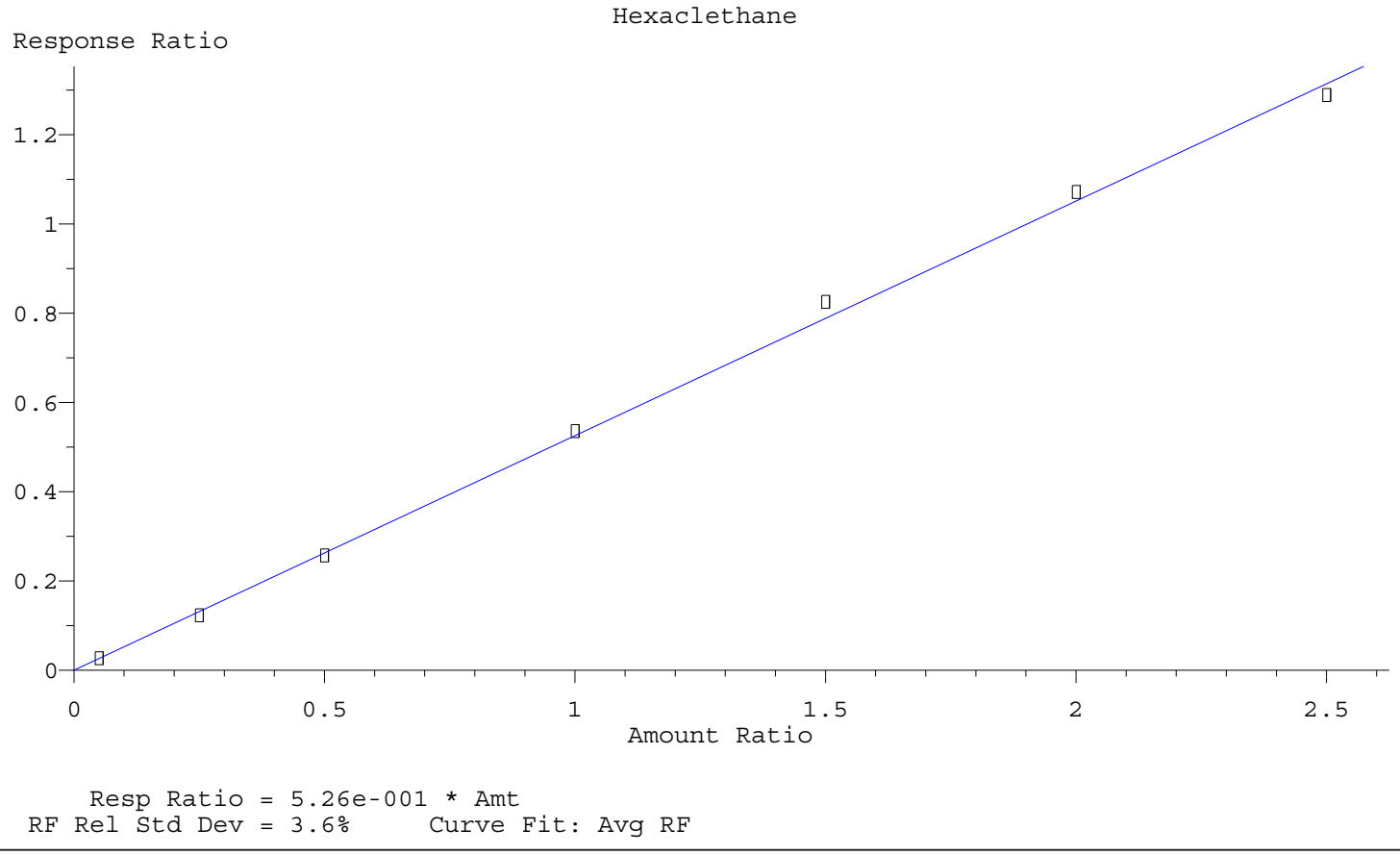
Resp Ratio = 1.13e+000 * Amt
RF Rel Std Dev = 3.7% Curve Fit: Avg RF



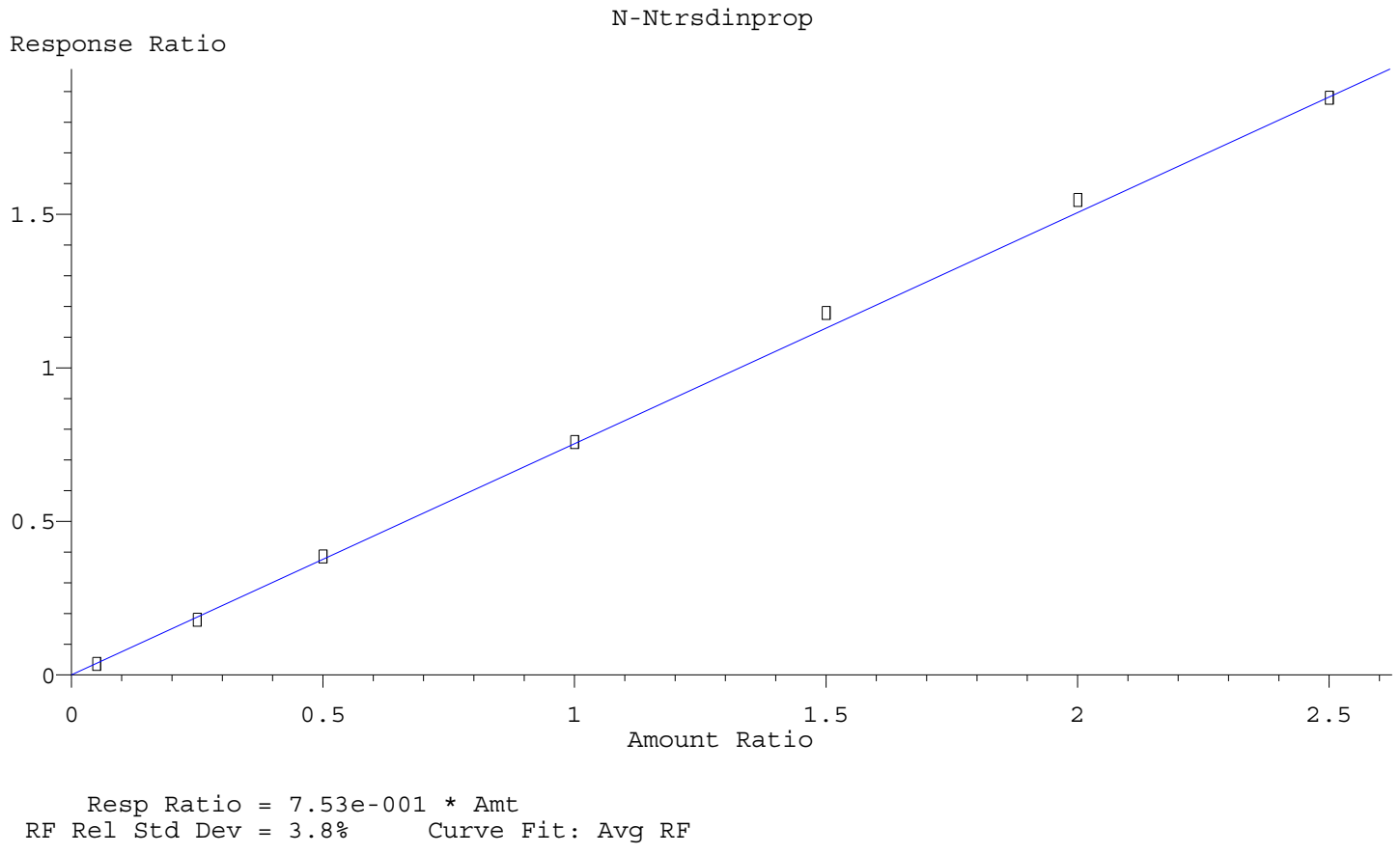
Resp Ratio = 5.96e-001 * Amt
RF Rel Std Dev = 8.3% Curve Fit: Avg RF



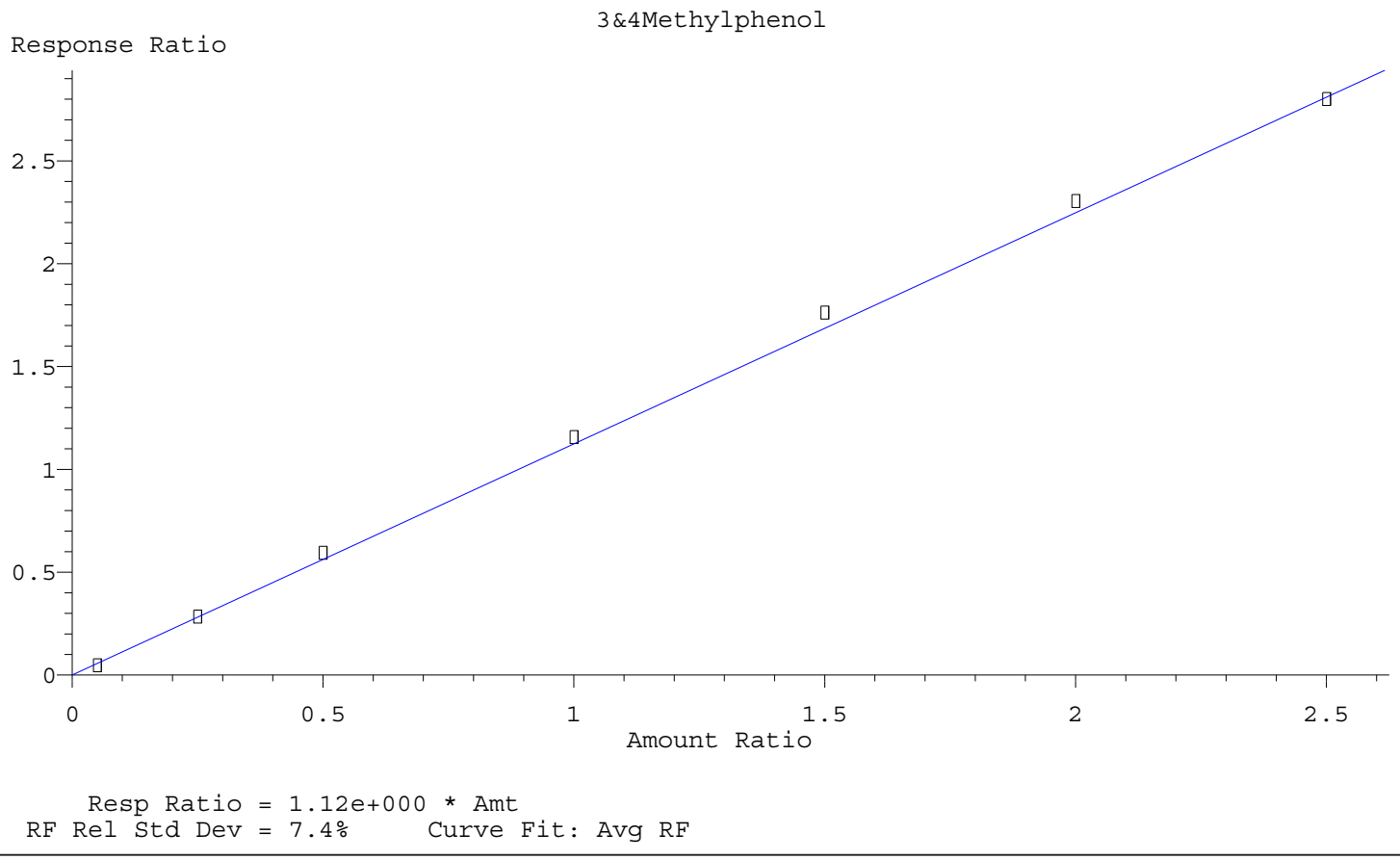
Resp Ratio = 1.68e+000 * Amt
RF Rel Std Dev = 2.7% Curve Fit: Avg RF



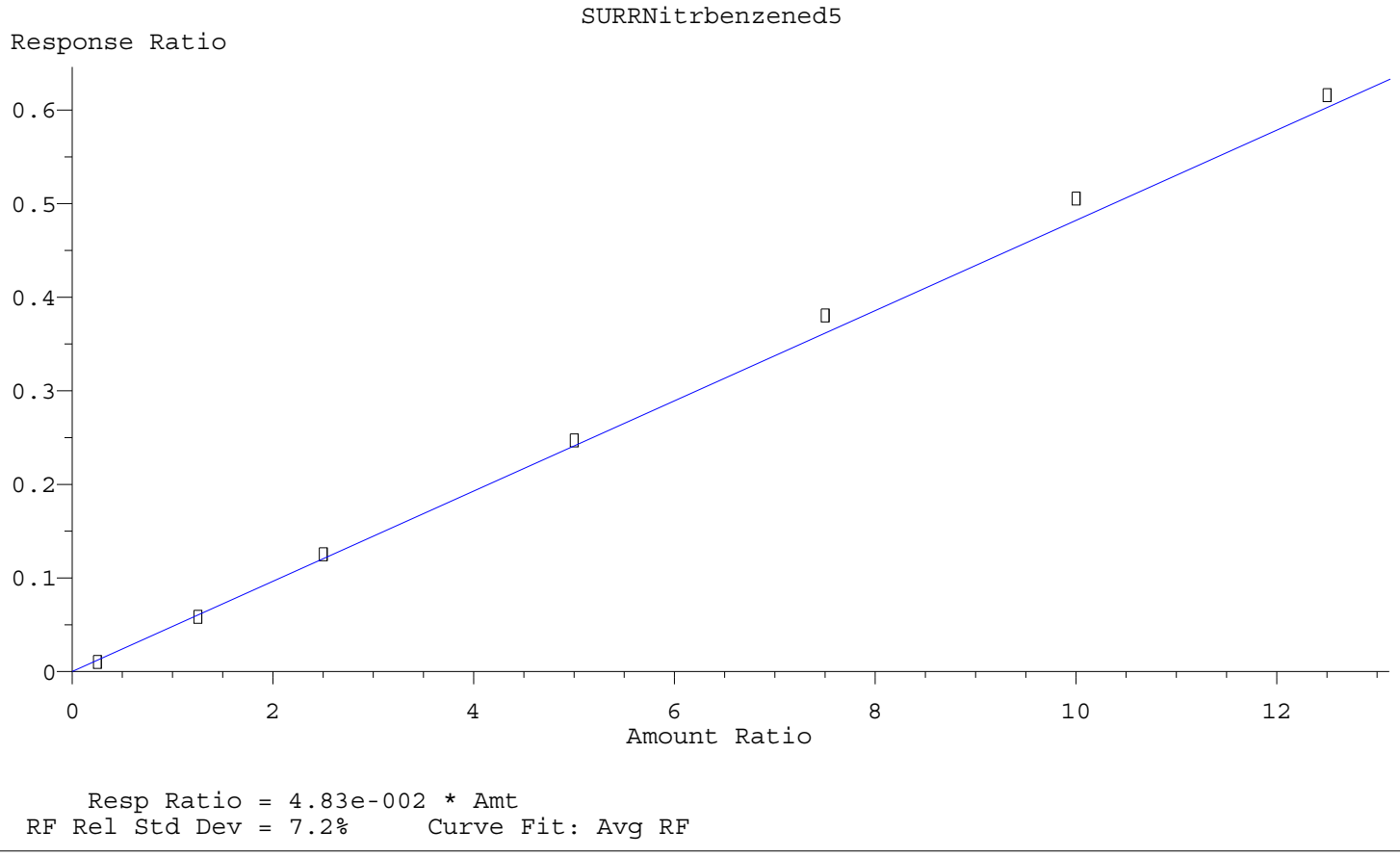
Resp Ratio = 5.26e-001 * Amt
RF Rel Std Dev = 3.6% Curve Fit: Avg RF



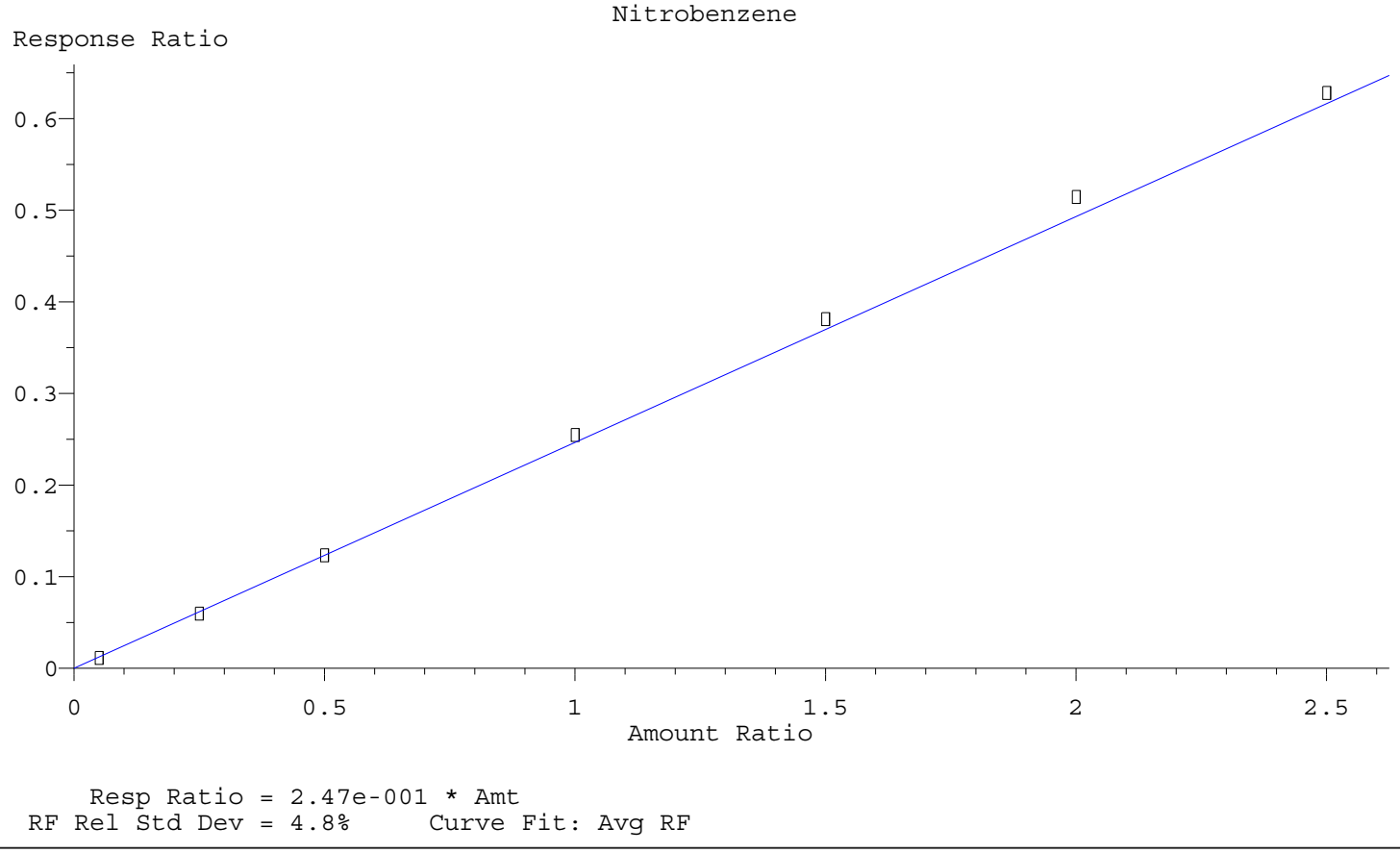
Resp Ratio = 7.53e-001 * Amt
RF Rel Std Dev = 3.8% Curve Fit: Avg RF



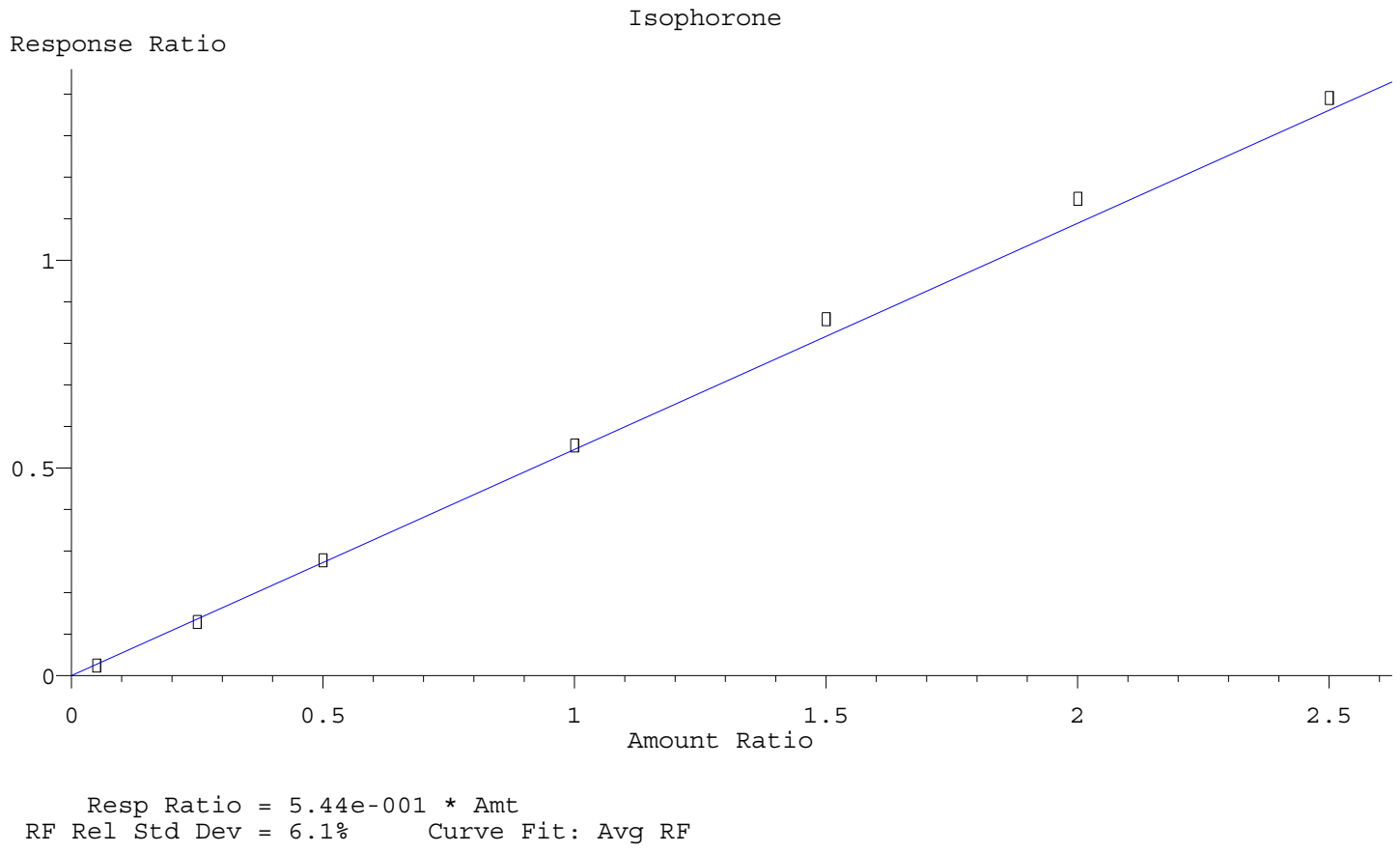
Resp Ratio = 1.12e+000 * Amt
RF Rel Std Dev = 7.4% Curve Fit: Avg RF



Resp Ratio = 4.83e-002 * Amt
RF Rel Std Dev = 7.2% Curve Fit: Avg RF

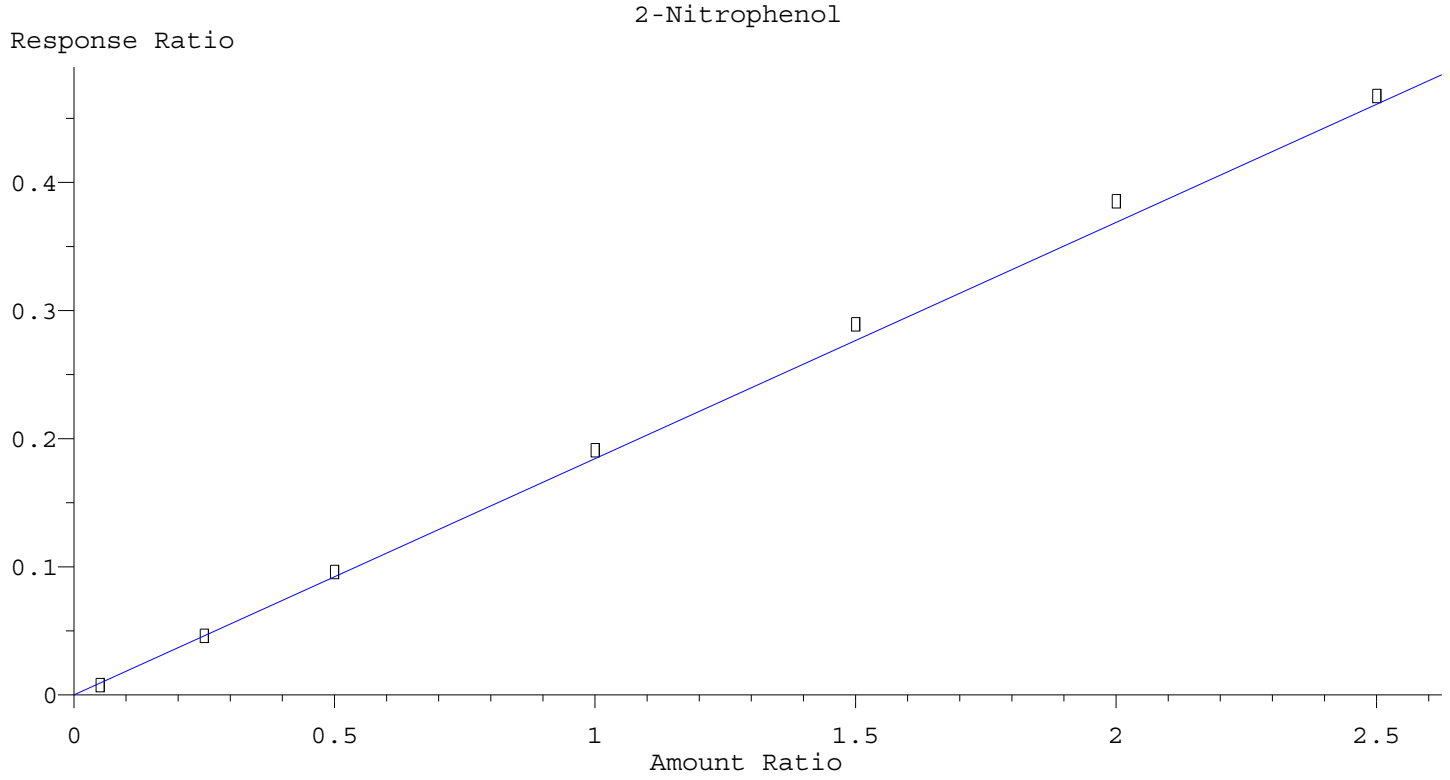


Resp Ratio = 2.47e-001 * Amt
RF Rel Std Dev = 4.8% Curve Fit: Avg RF



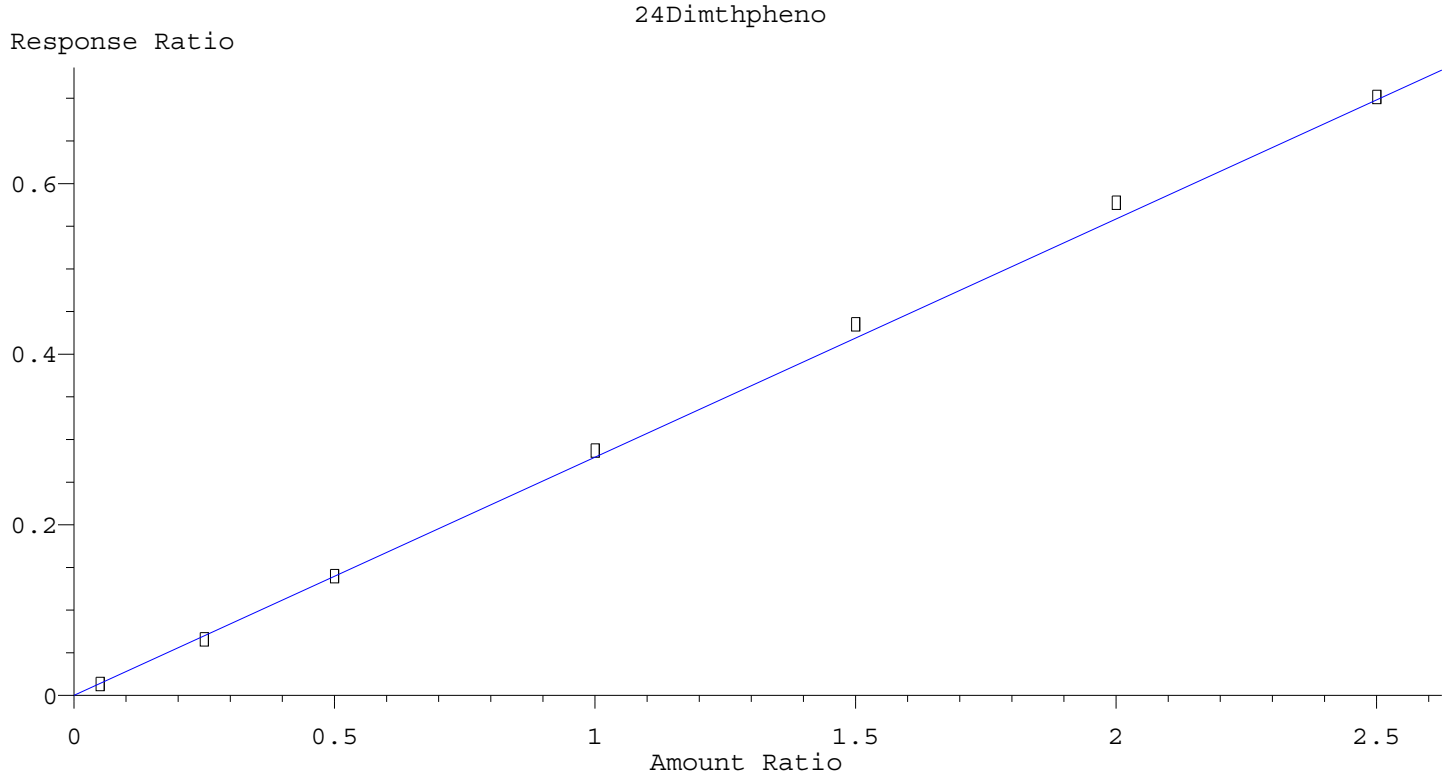
Resp Ratio = 5.44e-001 * Amt
RF Rel Std Dev = 6.1% Curve Fit: Avg RF

2-Nitrophenol

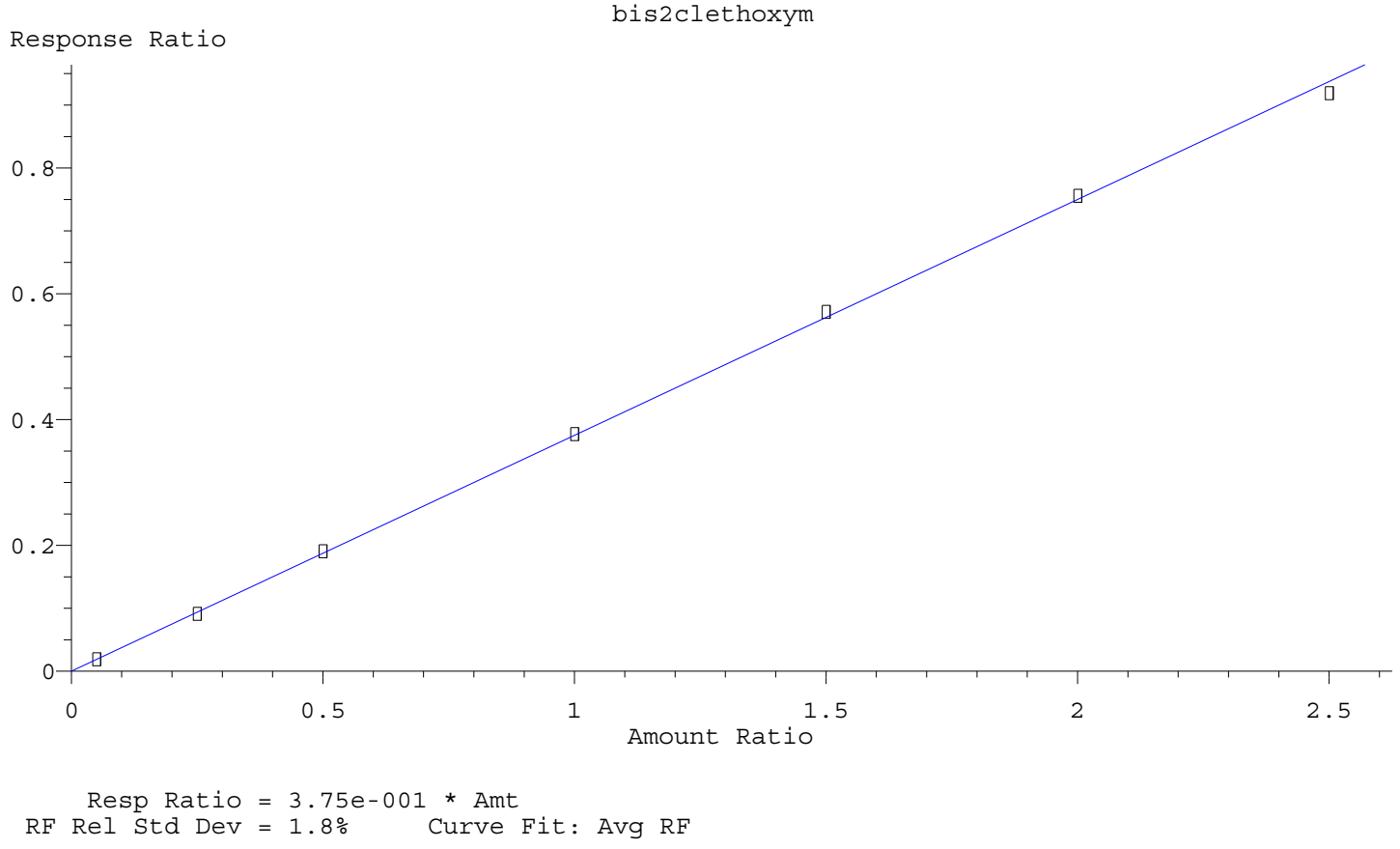


Resp Ratio = 1.84e-001 * Amt
RF Rel Std Dev = 8.1% Curve Fit: Avg RF

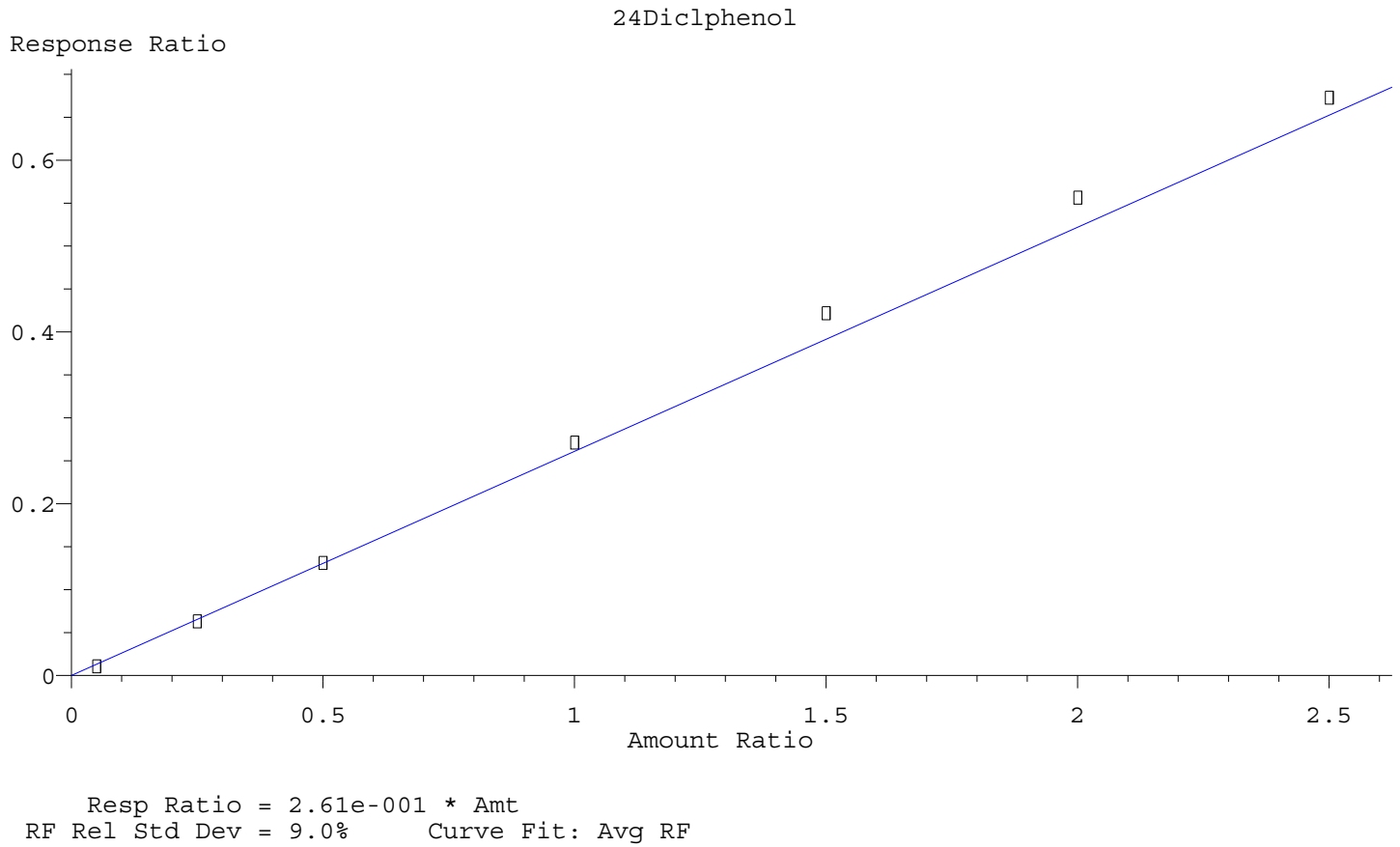
24Dimthpheno



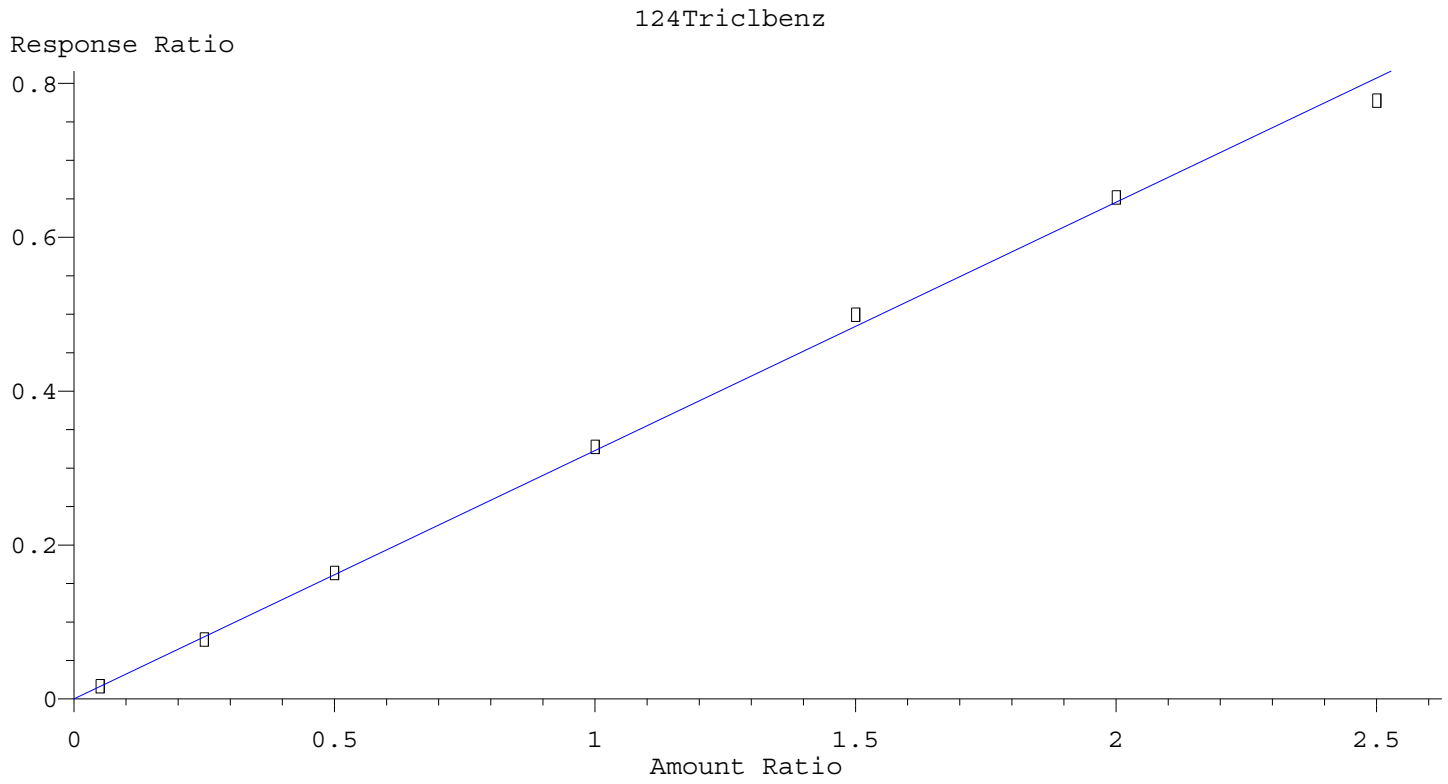
Resp Ratio = 2.79e-001 * Amt
RF Rel Std Dev = 3.8% Curve Fit: Avg RF



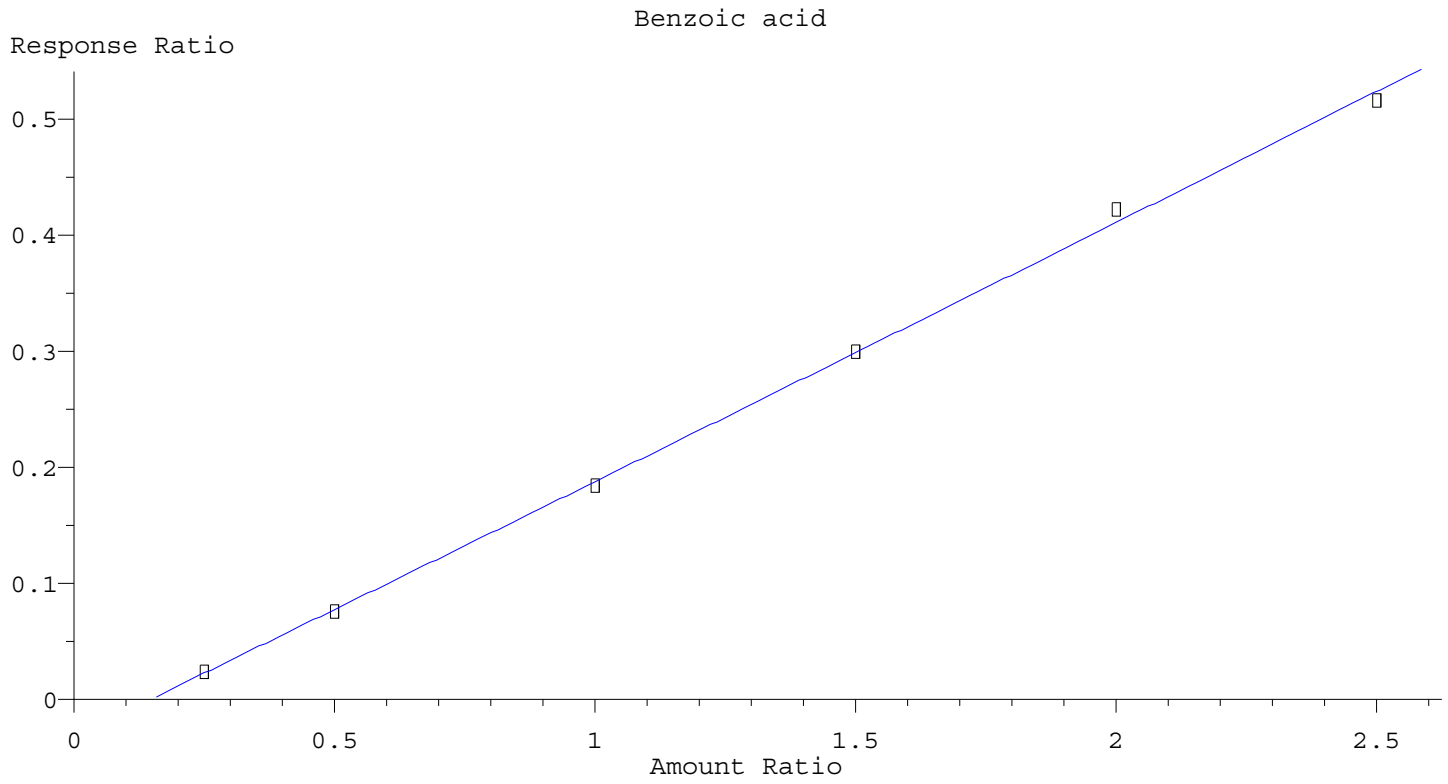
Resp Ratio = 3.75e-001 * Amt
RF Rel Std Dev = 1.8% Curve Fit: Avg RF



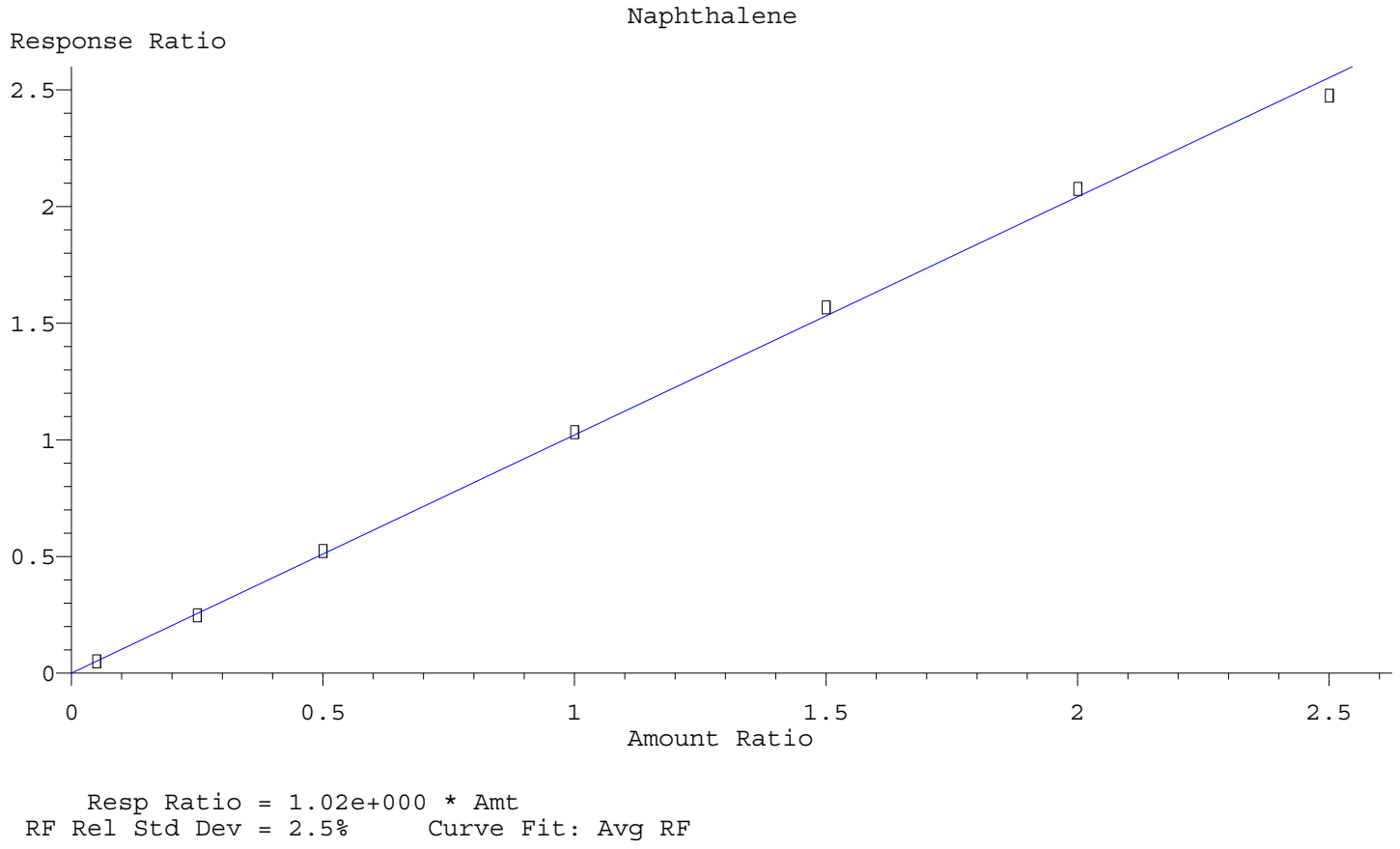
Resp Ratio = 2.61e-001 * Amt
RF Rel Std Dev = 9.0% Curve Fit: Avg RF



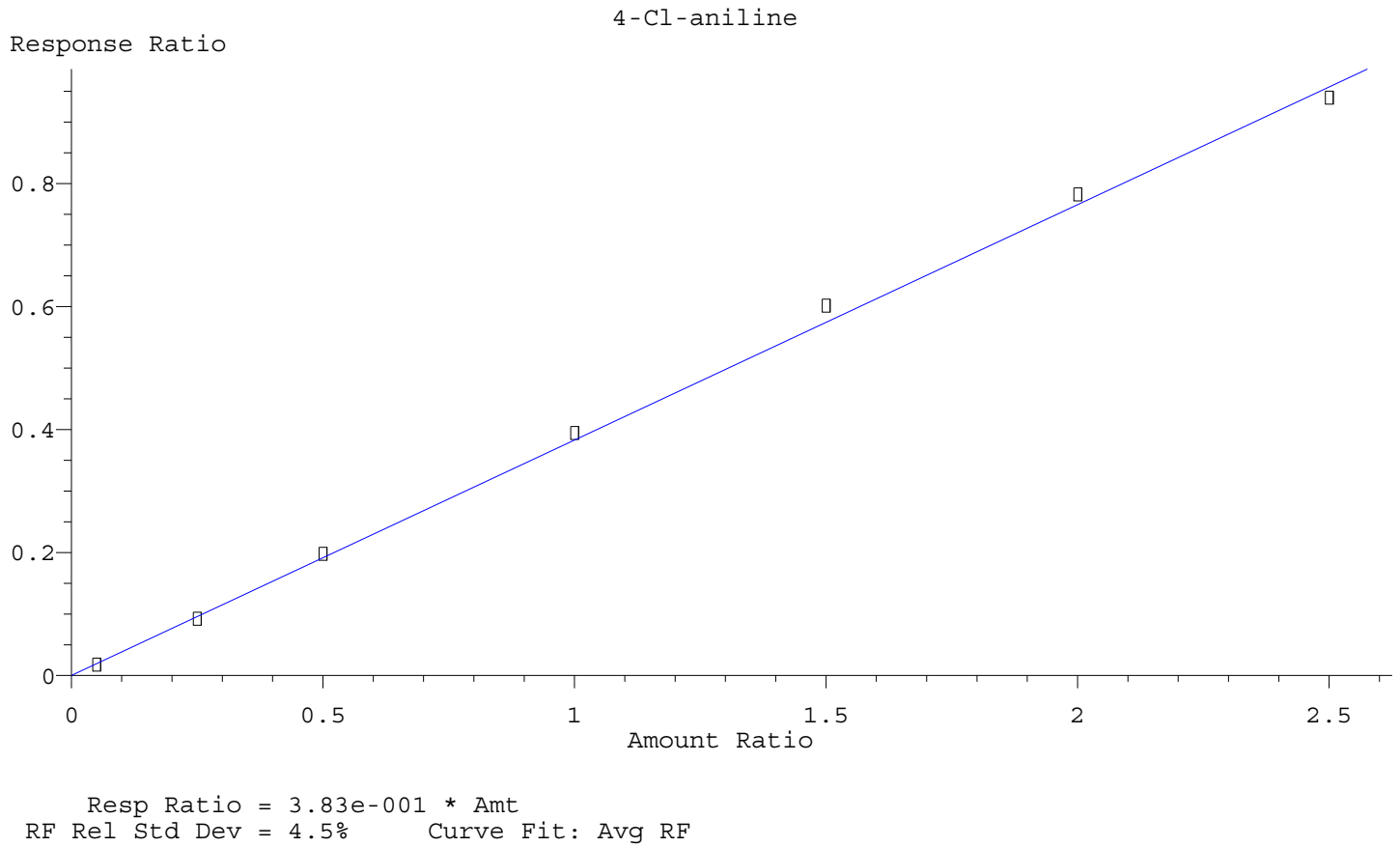
Resp Ratio = 3.23e-001 * Amt
RF Rel Std Dev = 2.9% Curve Fit: Avg RF



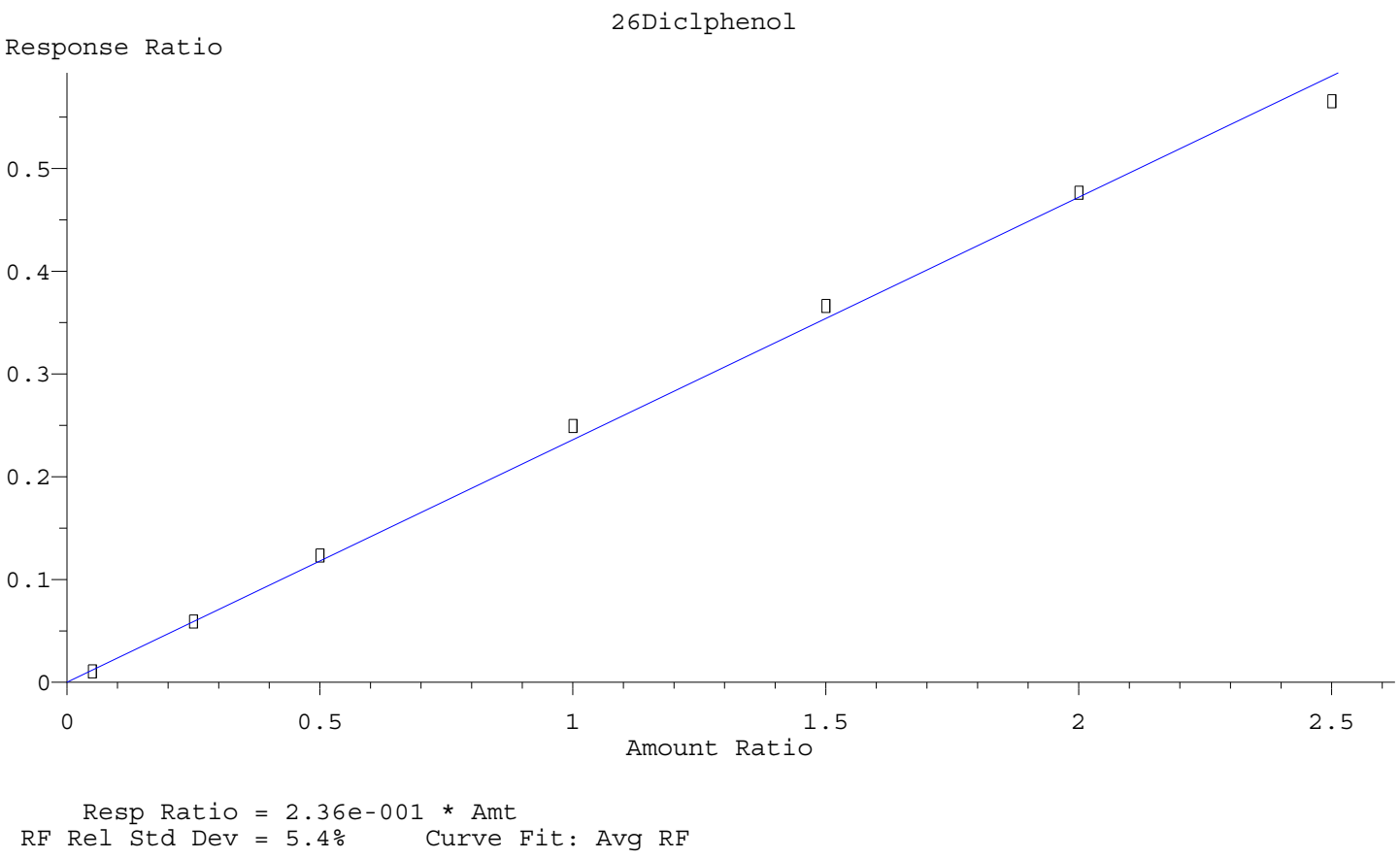
R = 1.91e-003 A*A + 2.18e-001 A - 3.18e-002
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a)



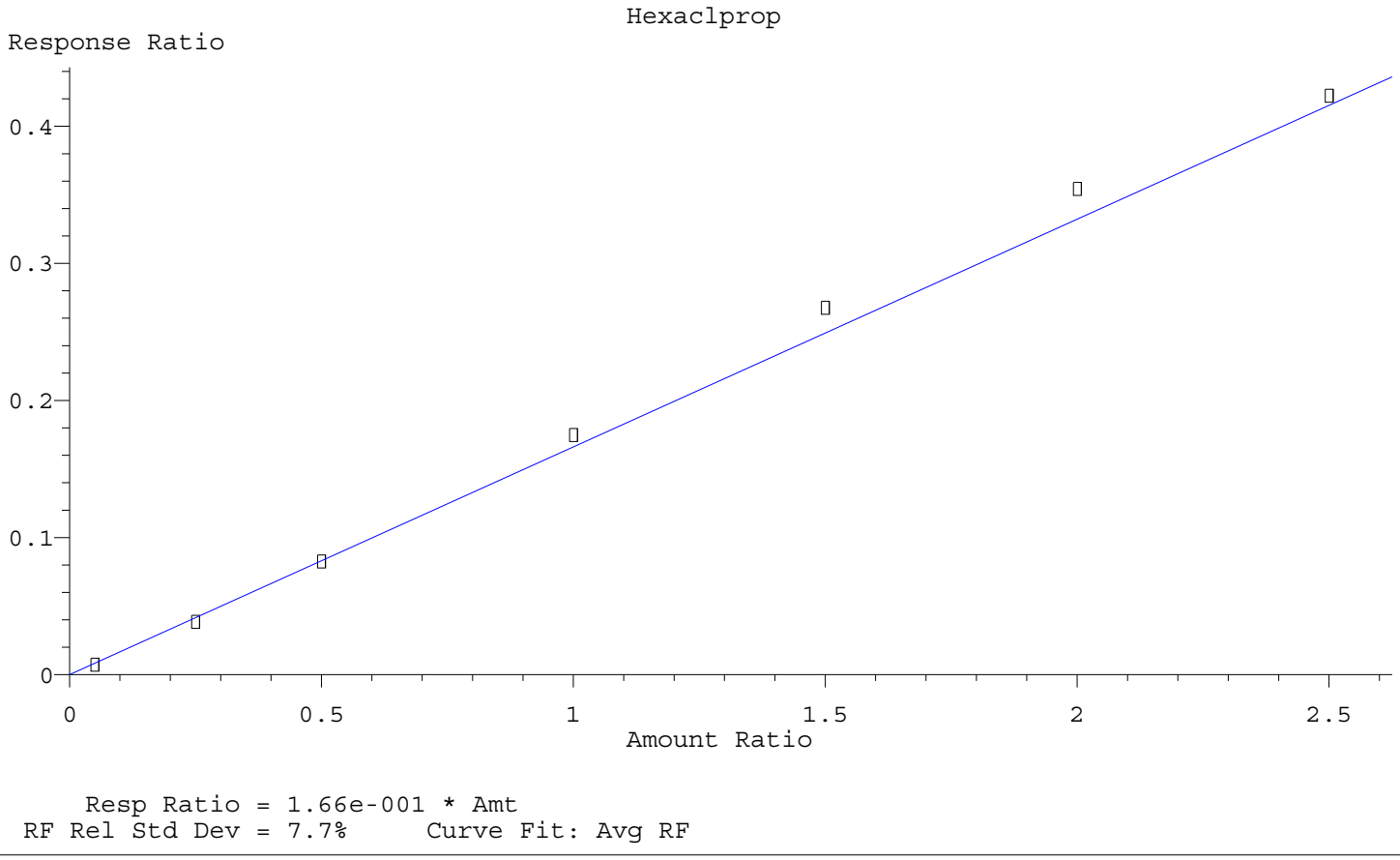
Resp Ratio = 1.02e+000 * Amt
RF Rel Std Dev = 2.5% Curve Fit: Avg RF



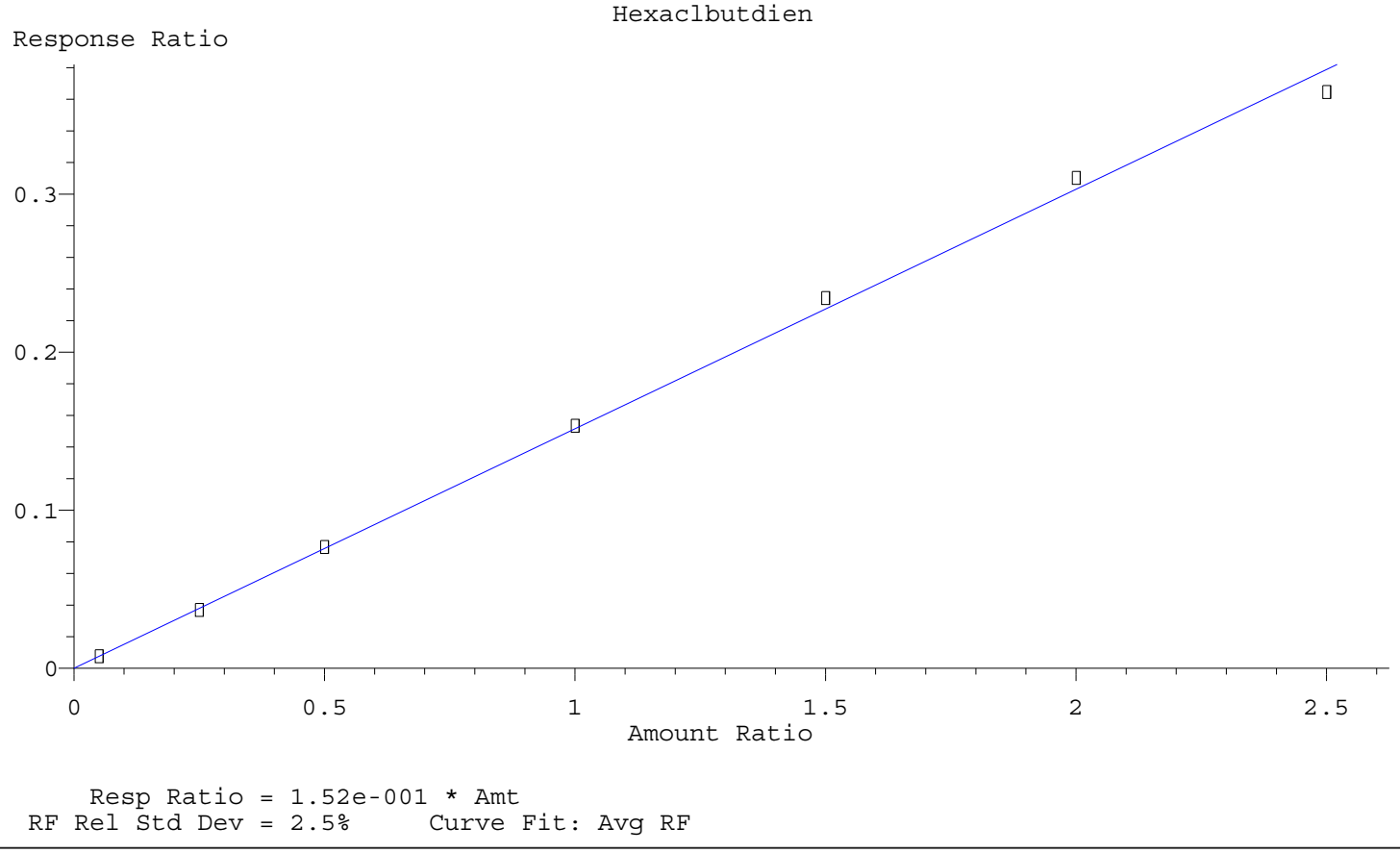
Resp Ratio = 3.83e-001 * Amt
RF Rel Std Dev = 4.5% Curve Fit: Avg RF



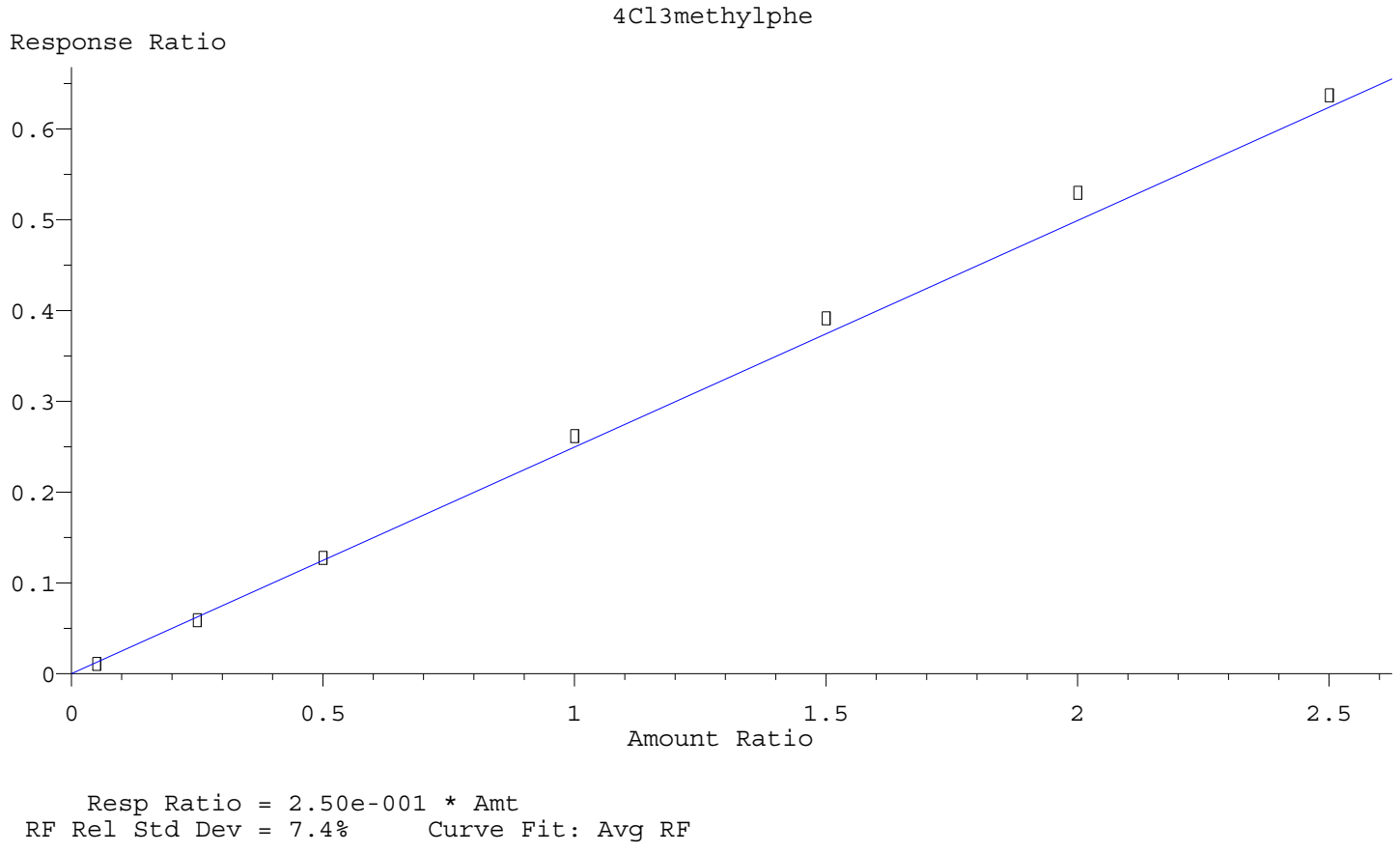
Resp Ratio = 2.36e-001 * Amt
RF Rel Std Dev = 5.4% Curve Fit: Avg RF



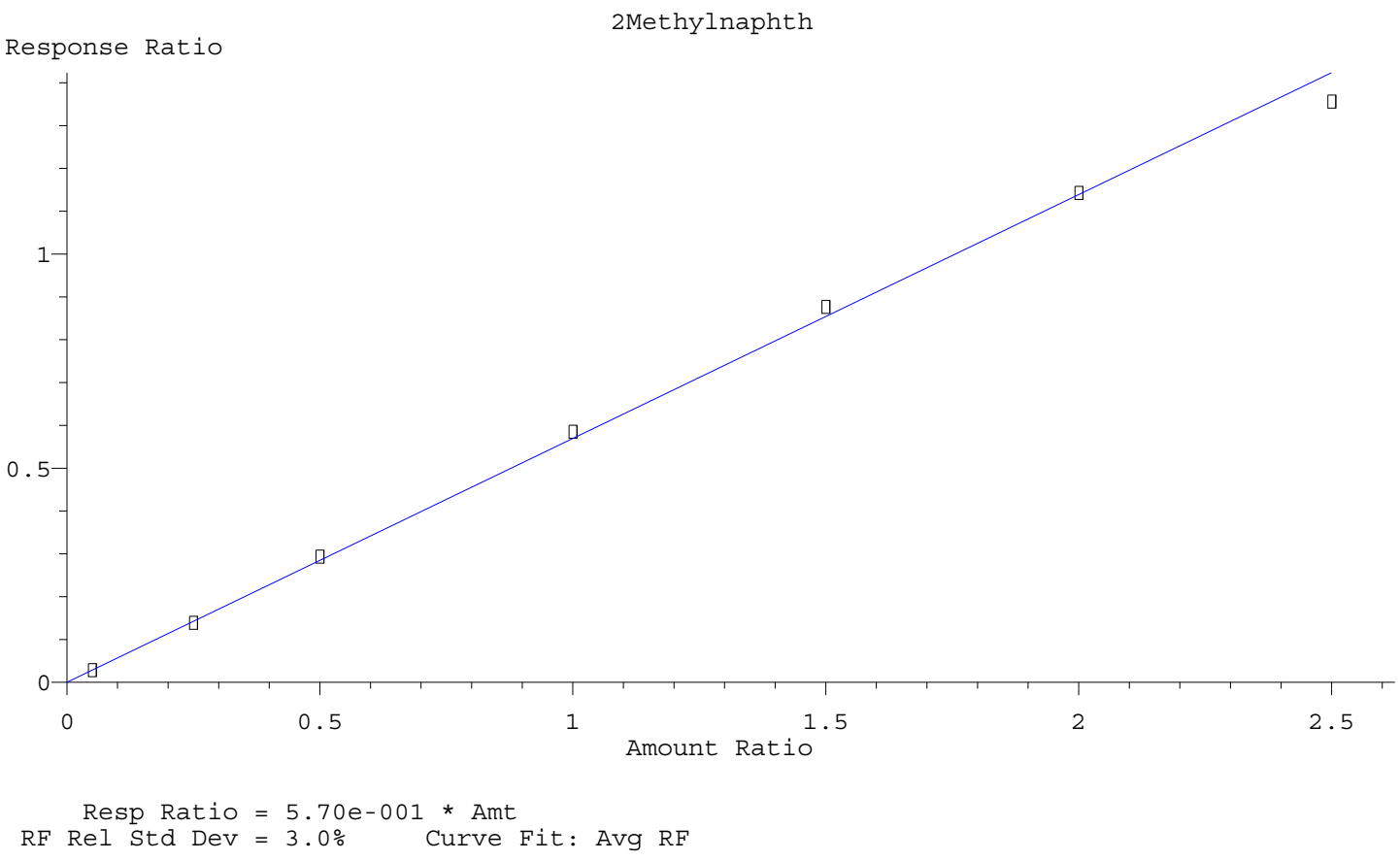
Resp Ratio = 1.66e-001 * Amt
RF Rel Std Dev = 7.7% Curve Fit: Avg RF



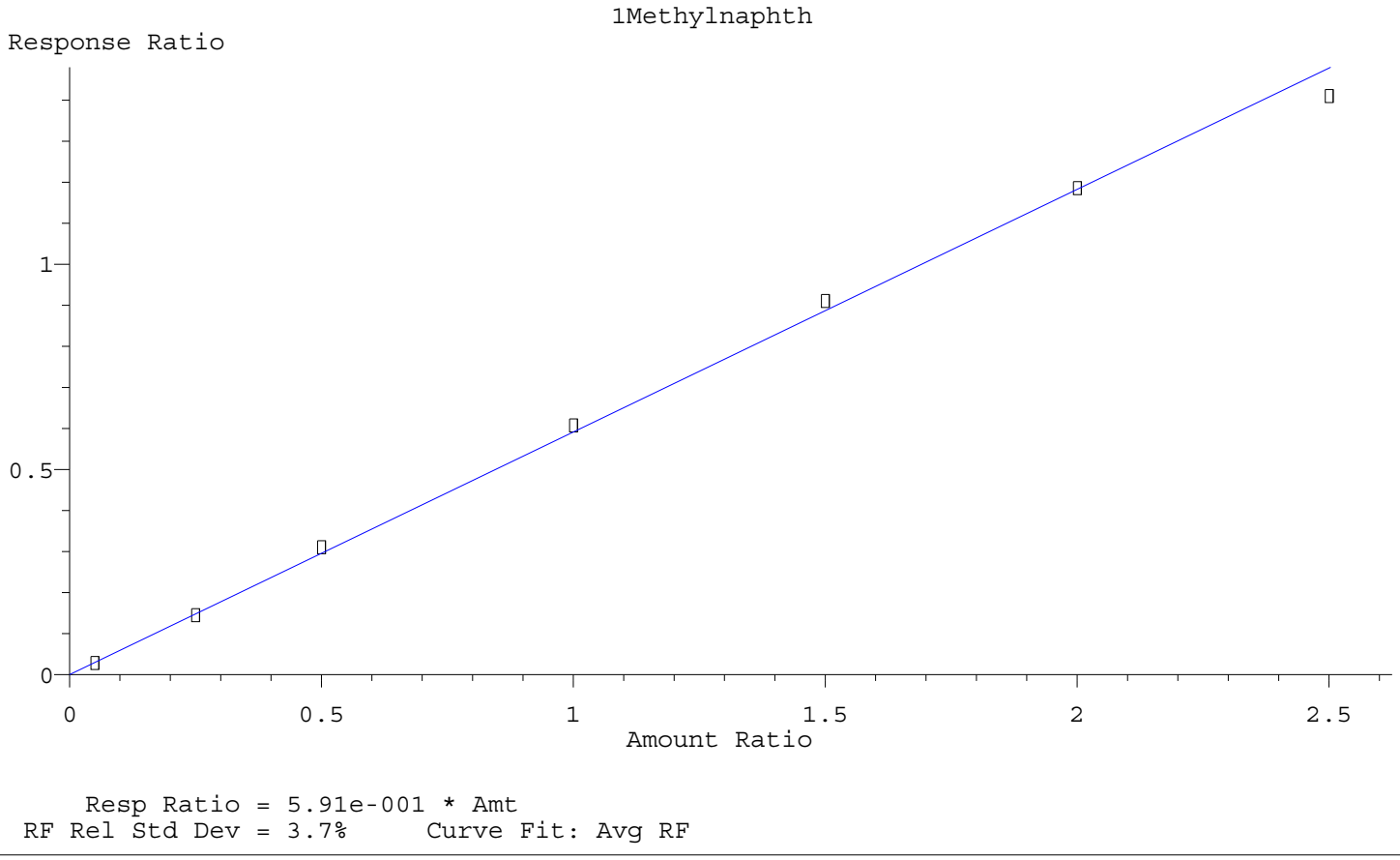
Resp Ratio = 1.52e-001 * Amt
RF Rel Std Dev = 2.5% Curve Fit: Avg RF



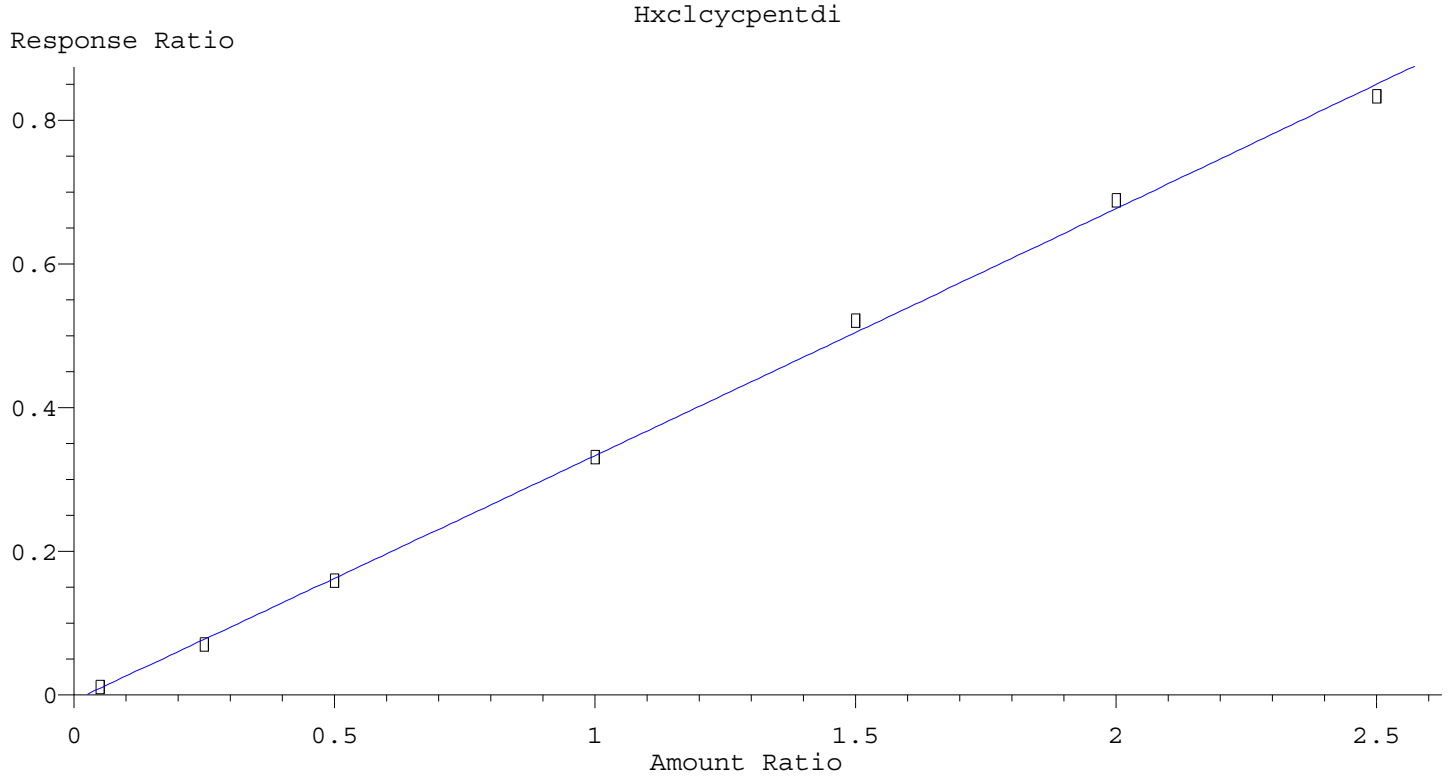
Resp Ratio = 2.50e-001 * Amt
RF Rel Std Dev = 7.4% Curve Fit: Avg RF



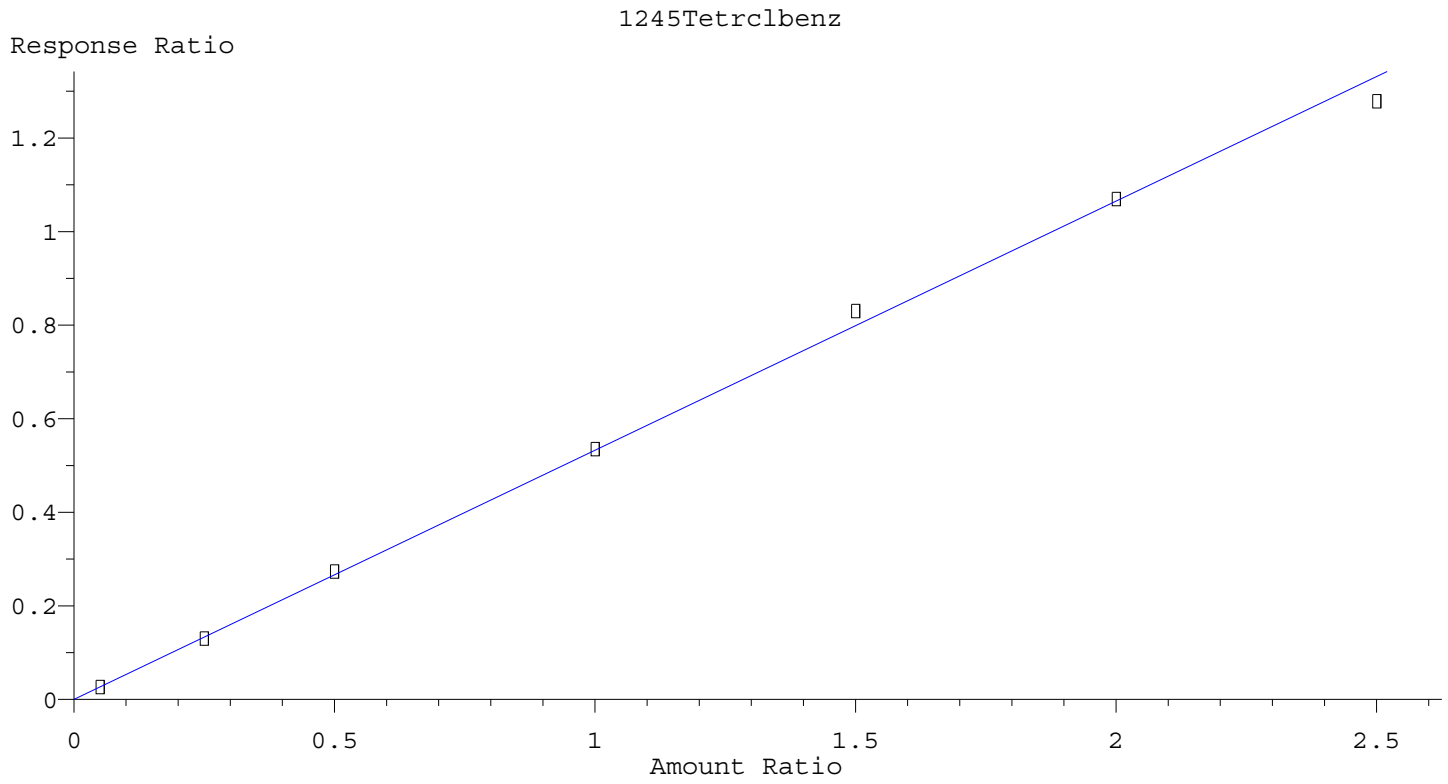
Resp Ratio = 5.70e-001 * Amt
RF Rel Std Dev = 3.0% Curve Fit: Avg RF



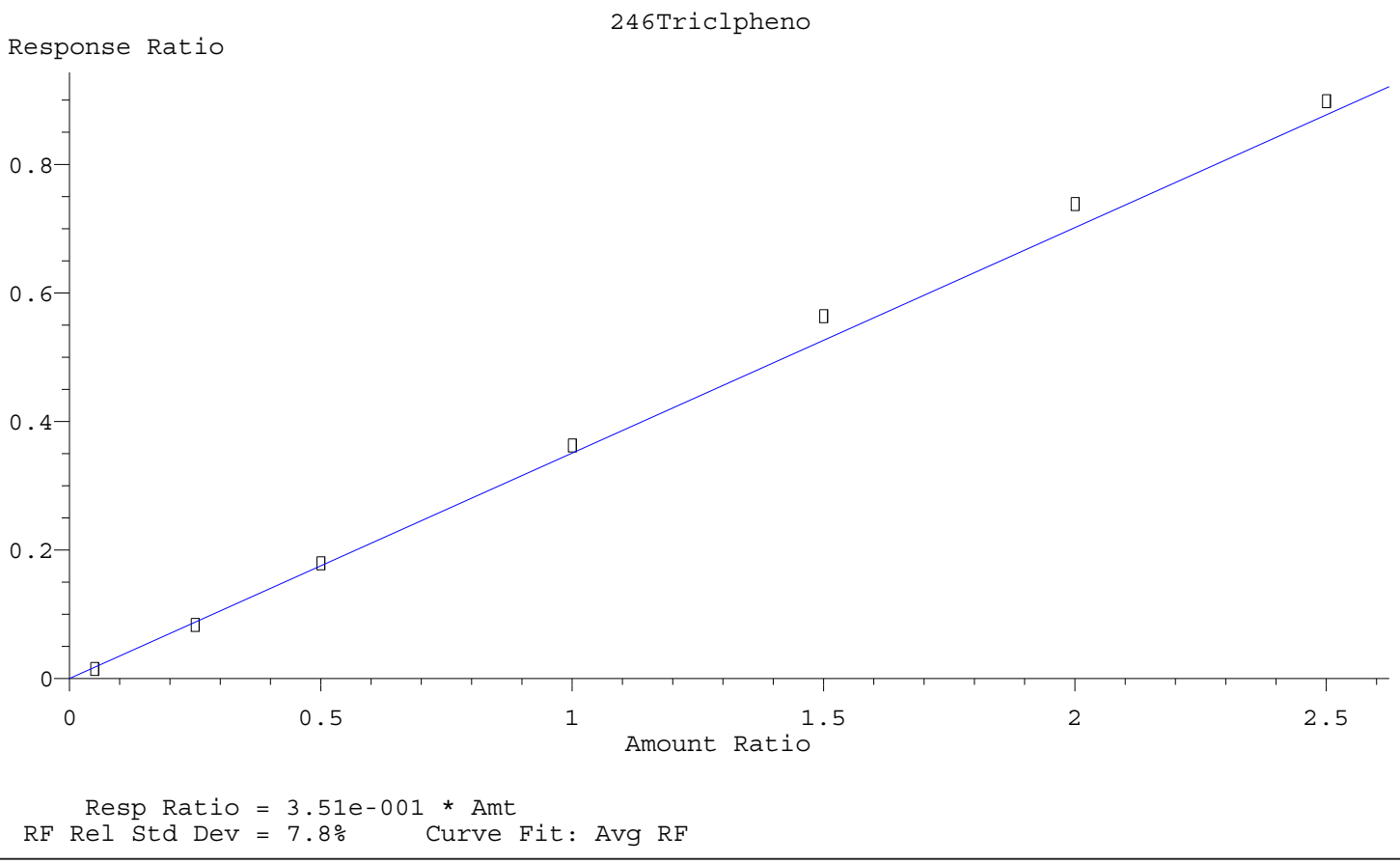
Resp Ratio = 5.91e-001 * Amt
RF Rel Std Dev = 3.7% Curve Fit: Avg RF



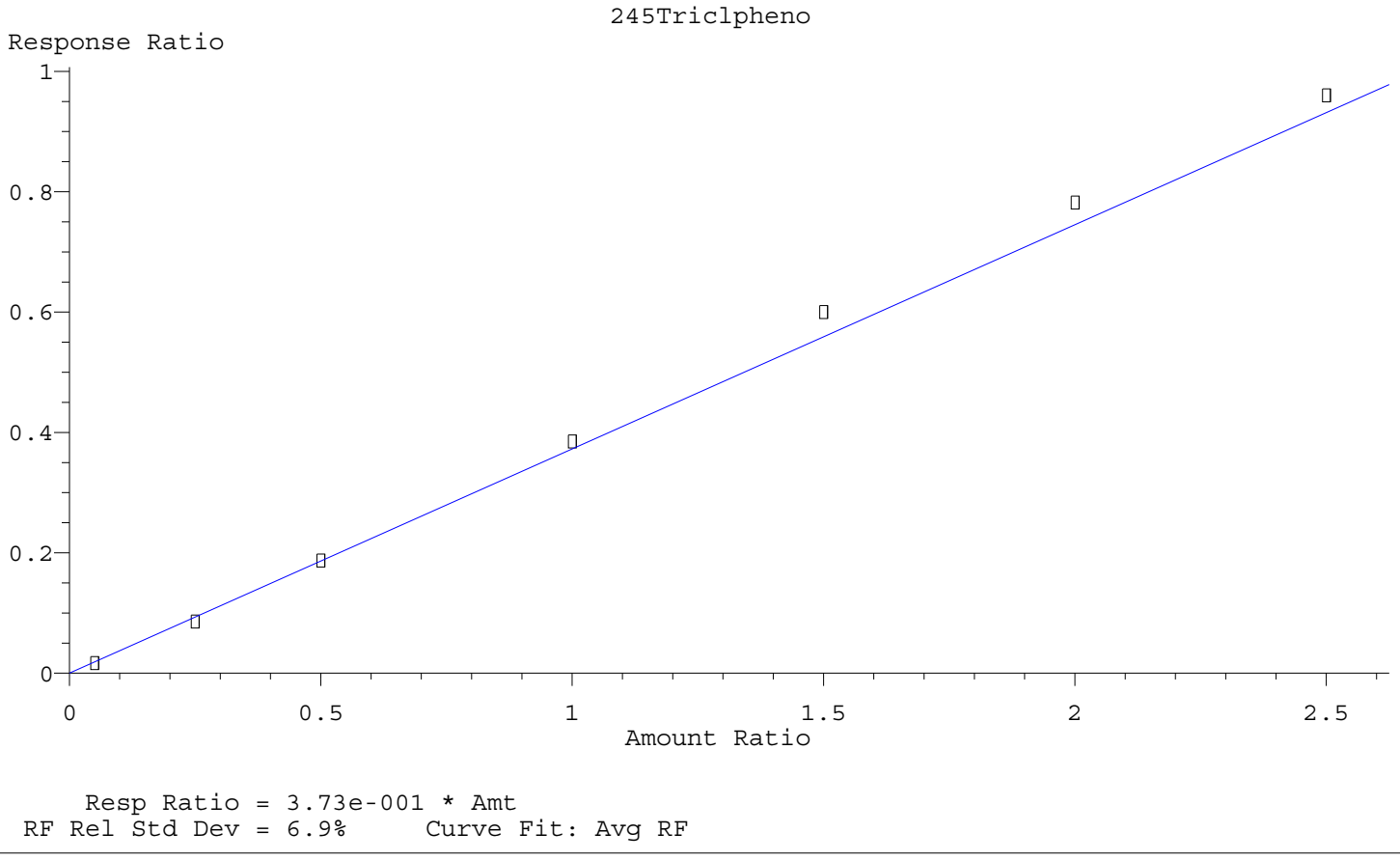
R = 1.71e-003 A*A + 3.39e-001 A - 7.49e-003
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a)



Resp Ratio = 5.33e-001 * Amt
RF Rel Std Dev = 2.7% Curve Fit: Avg RF

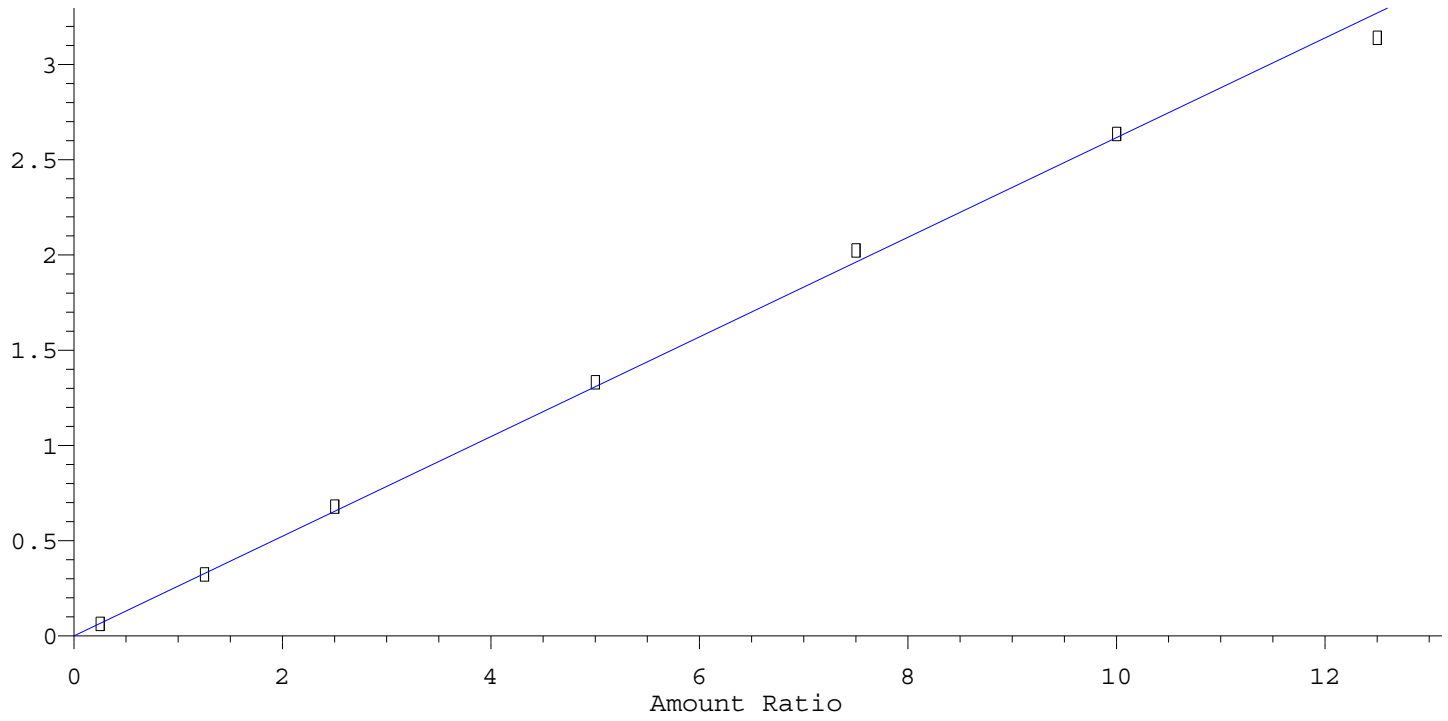


Resp Ratio = 3.51e-001 * Amt
RF Rel Std Dev = 7.8% Curve Fit: Avg RF



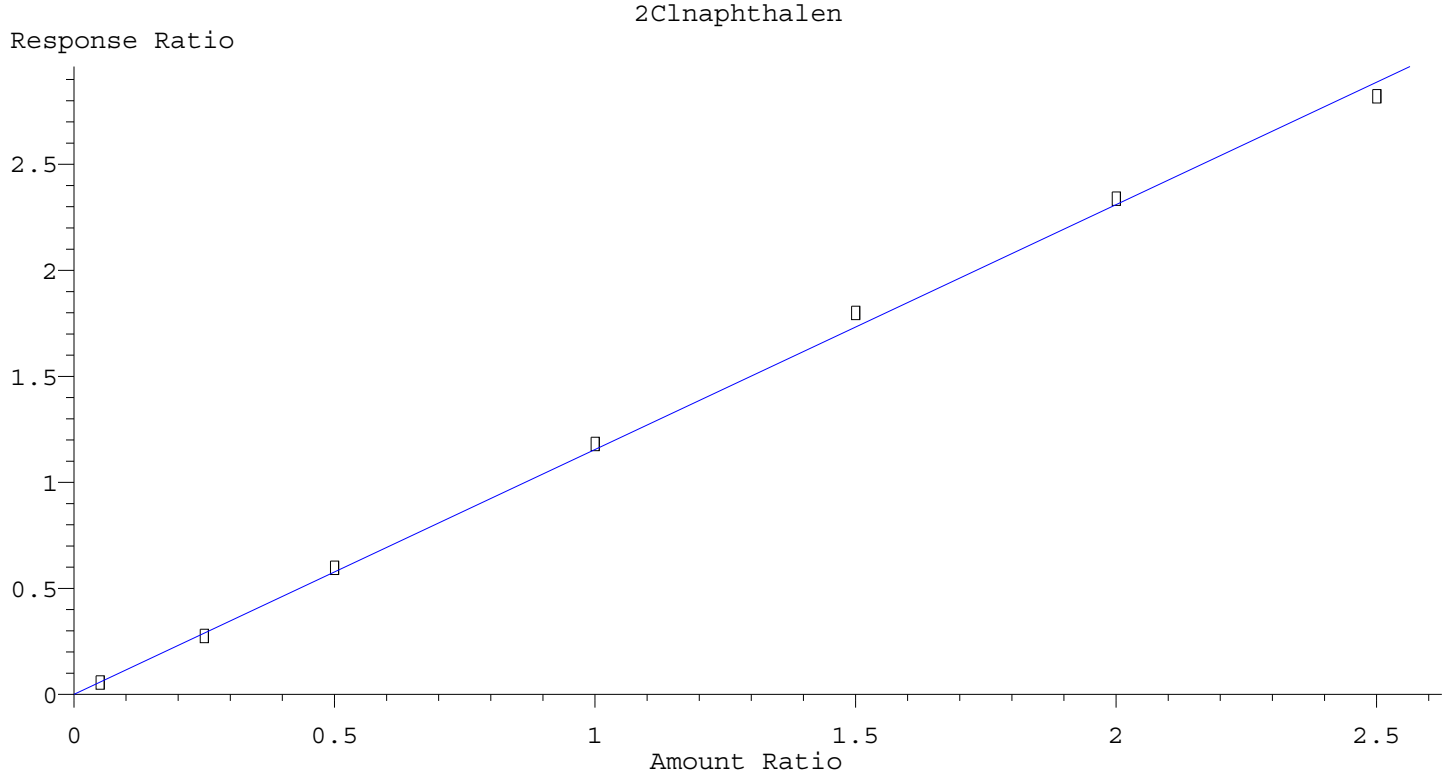
Resp Ratio = 3.73e-001 * Amt
RF Rel Std Dev = 6.9% Curve Fit: Avg RF

SURR2Flbiphenyl

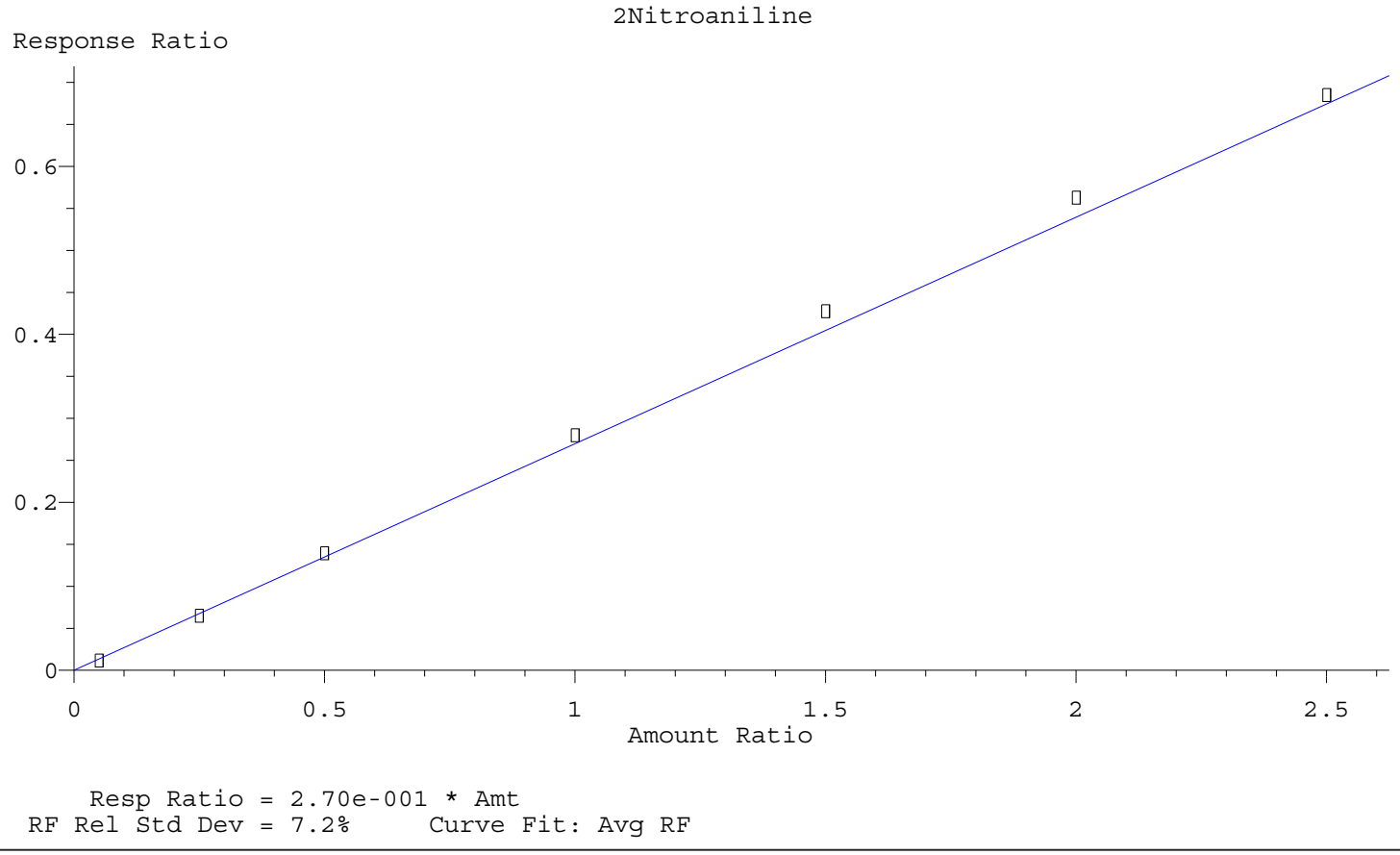


Resp Ratio = 2.62e-001 * Amt
RF Rel Std Dev = 3.2% Curve Fit: Avg RF

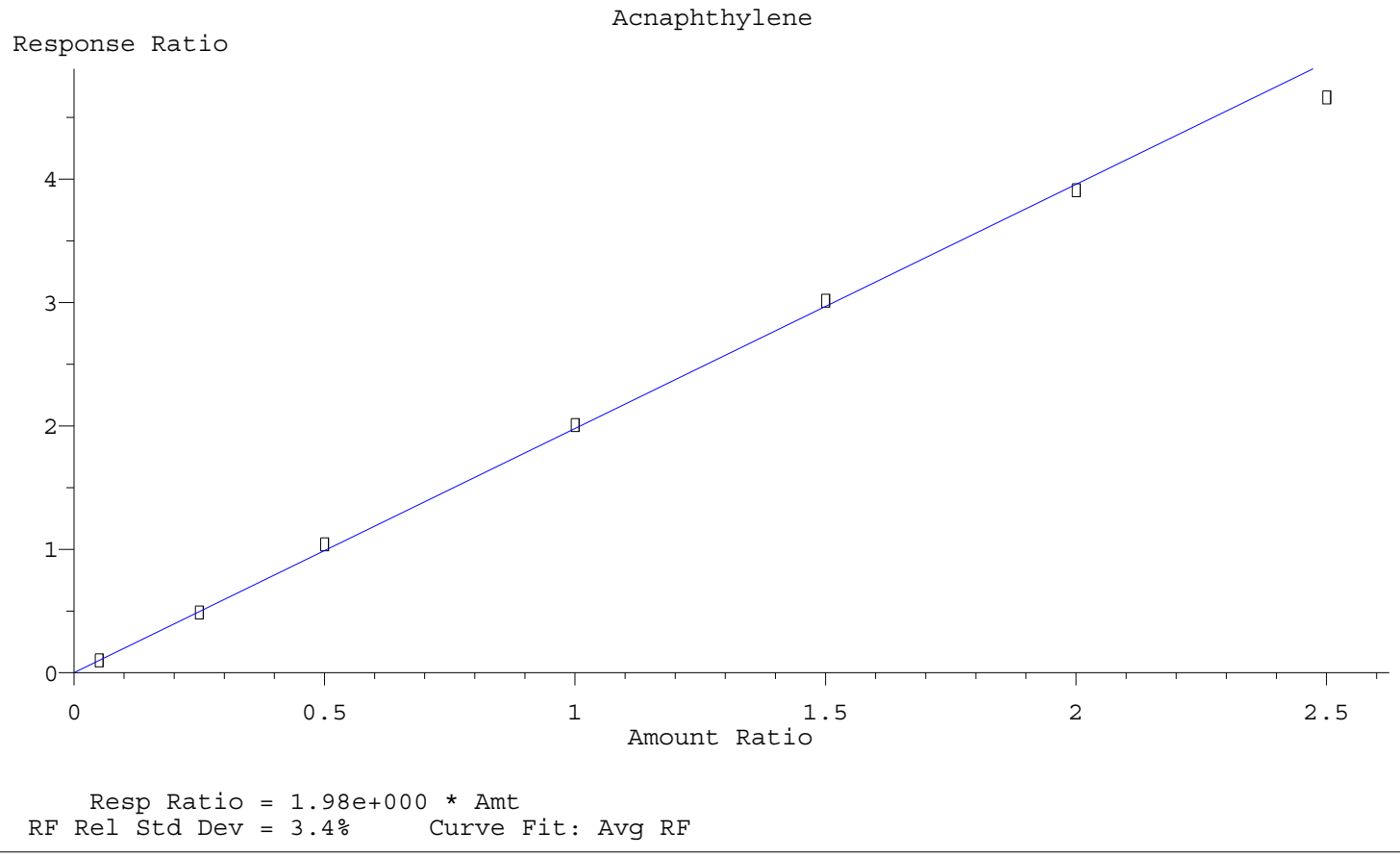
2Clnaphthalen



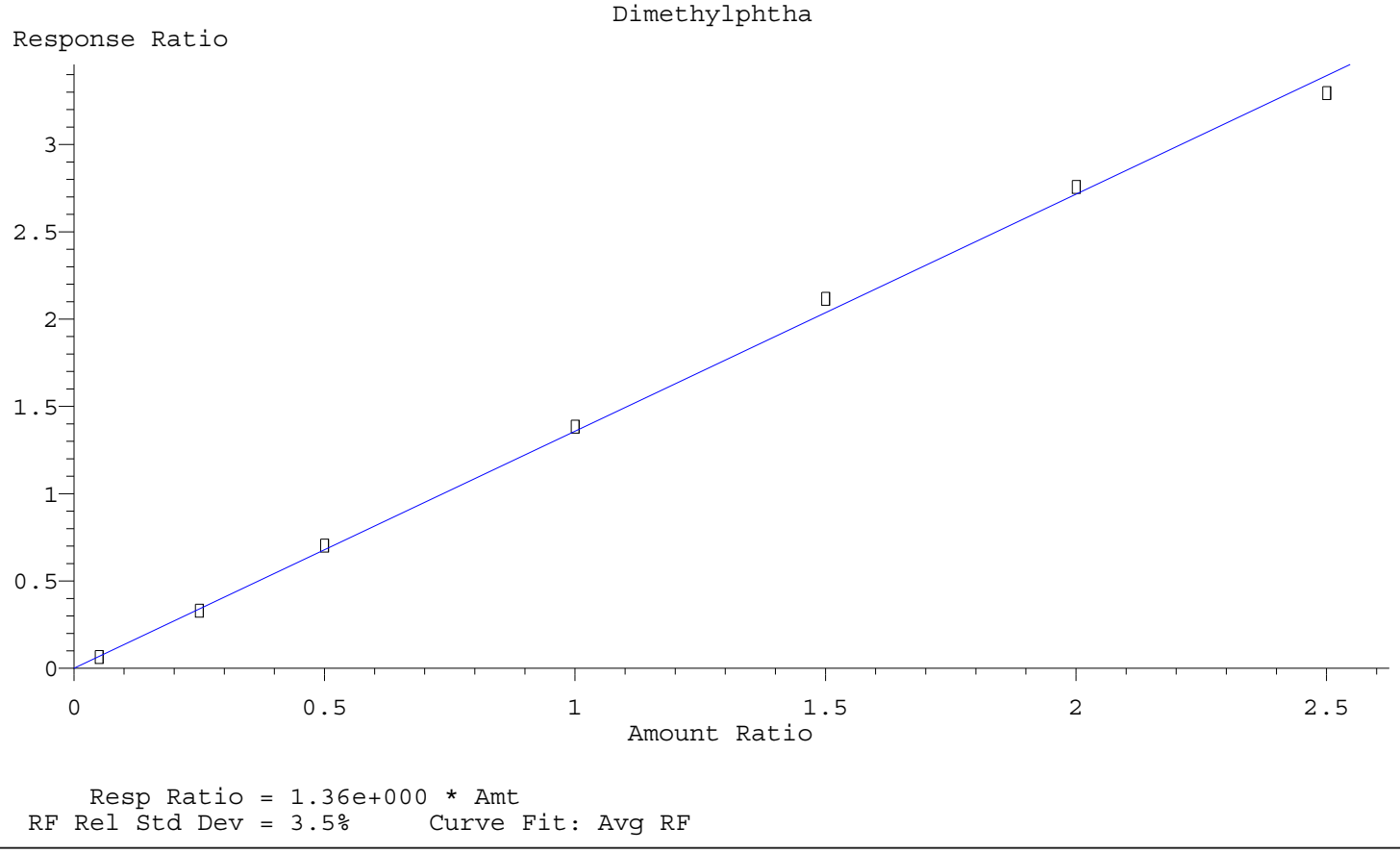
Resp Ratio = 1.16e+000 * Amt
RF Rel Std Dev = 3.4% Curve Fit: Avg RF



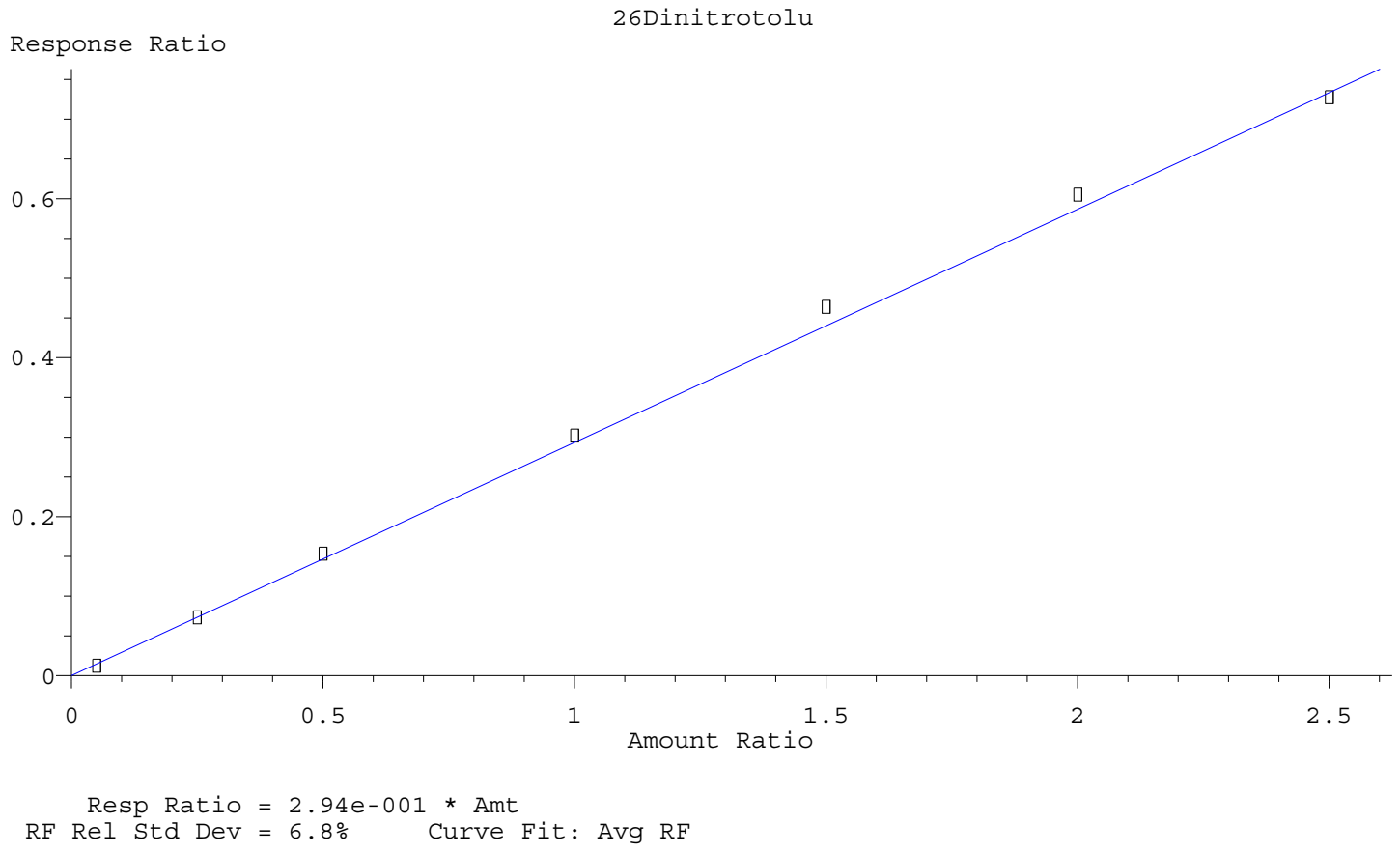
Resp Ratio = 2.70e-001 * Amt
RF Rel Std Dev = 7.2% Curve Fit: Avg RF



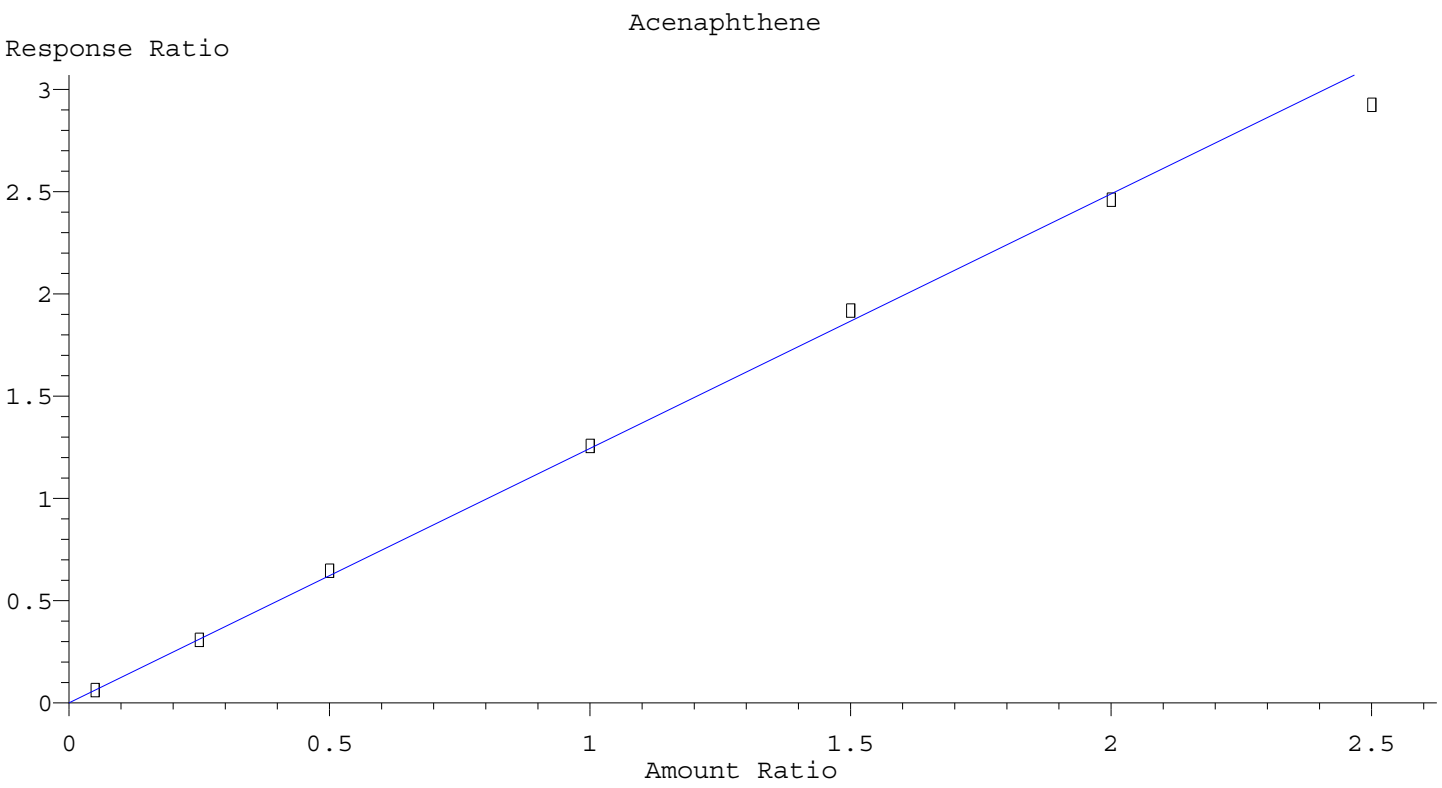
Resp Ratio = 1.98e+000 * Amt
RF Rel Std Dev = 3.4% Curve Fit: Avg RF



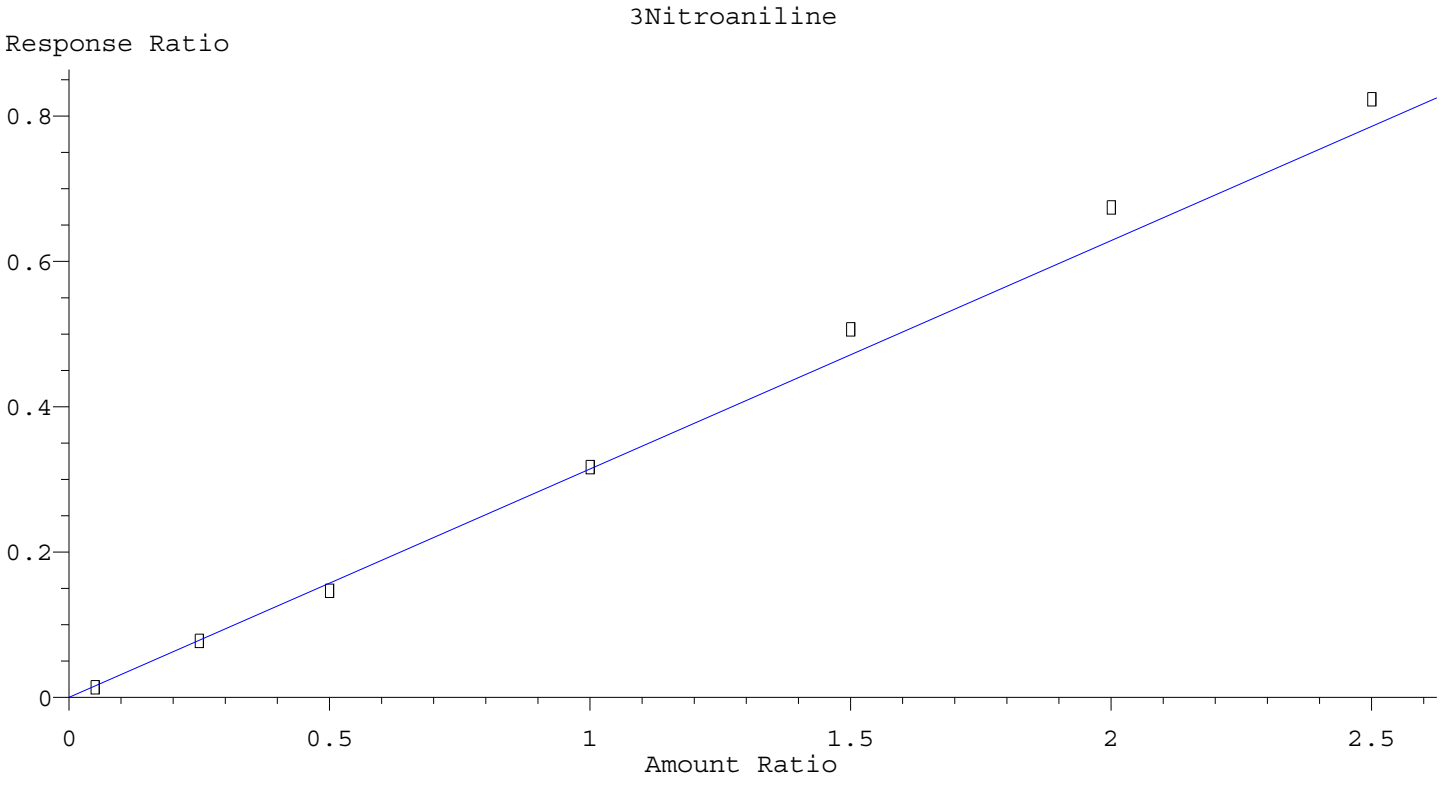
Resp Ratio = 1.36e+000 * Amt
RF Rel Std Dev = 3.5% Curve Fit: Avg RF



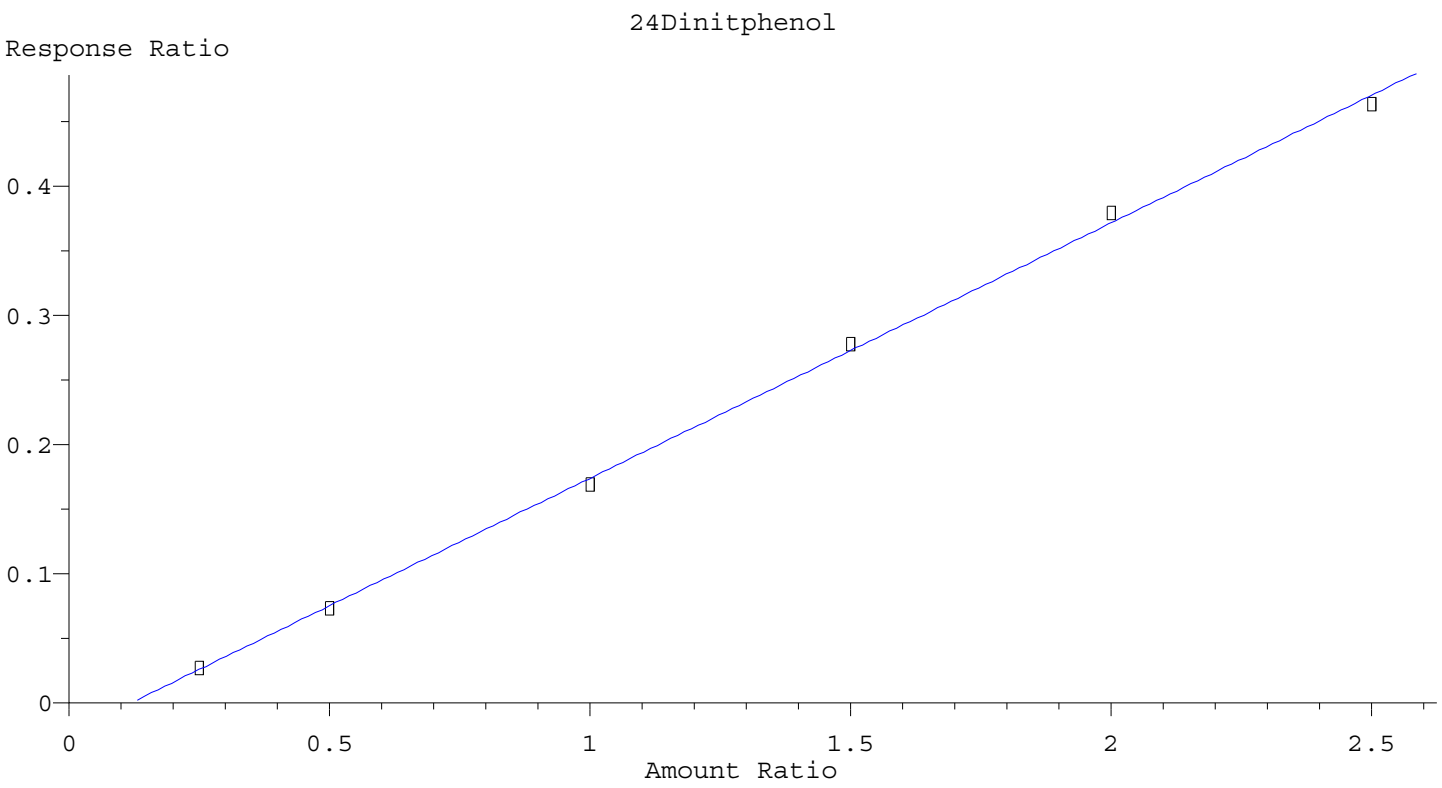
Resp Ratio = 2.94e-001 * Amt
RF Rel Std Dev = 6.8% Curve Fit: Avg RF



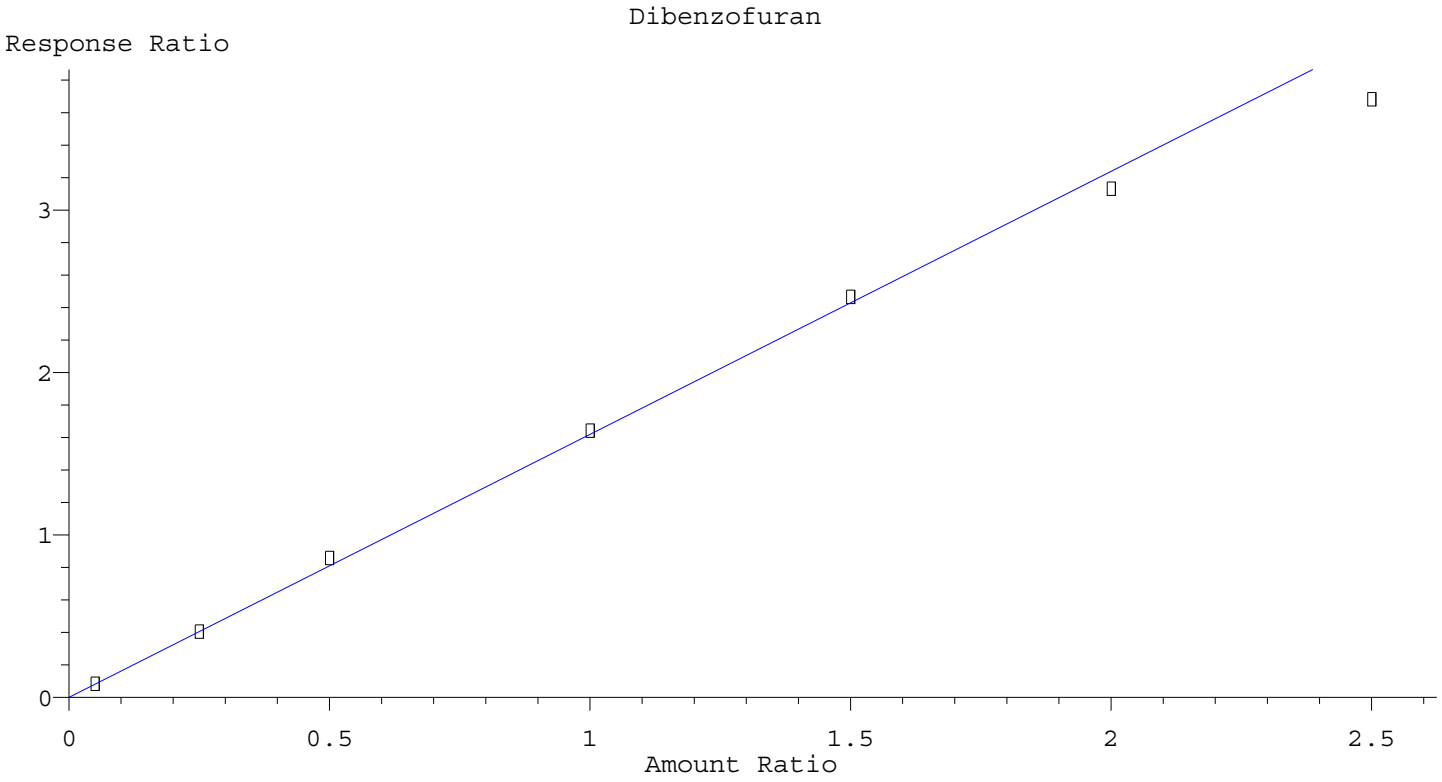
Resp Ratio = 1.24e+000 * Amt
RF Rel Std Dev = 3.2% Curve Fit: Avg RF



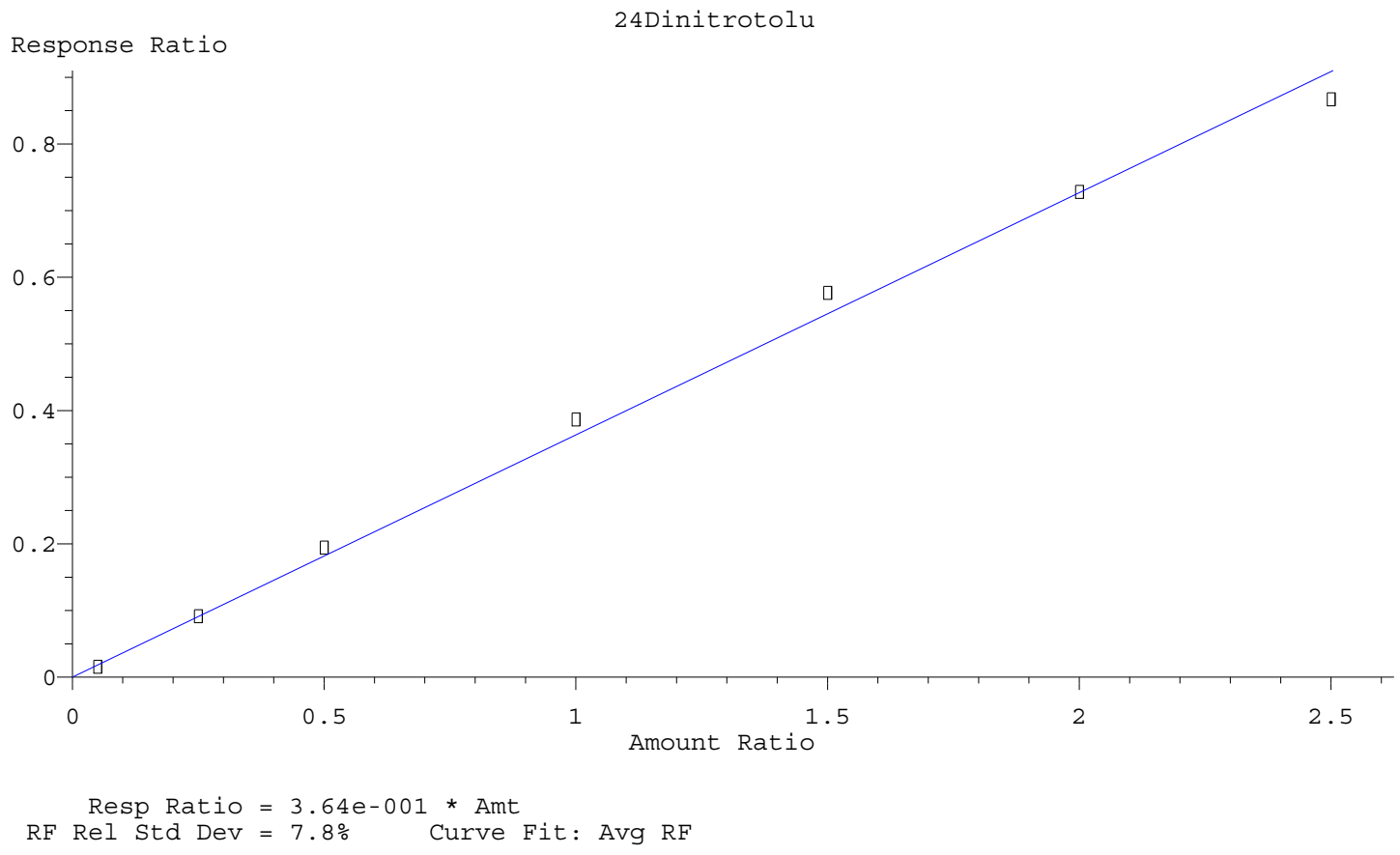
Resp Ratio = 3.14e-001 * Amt
RF Rel Std Dev = 7.4% Curve Fit: Avg RF



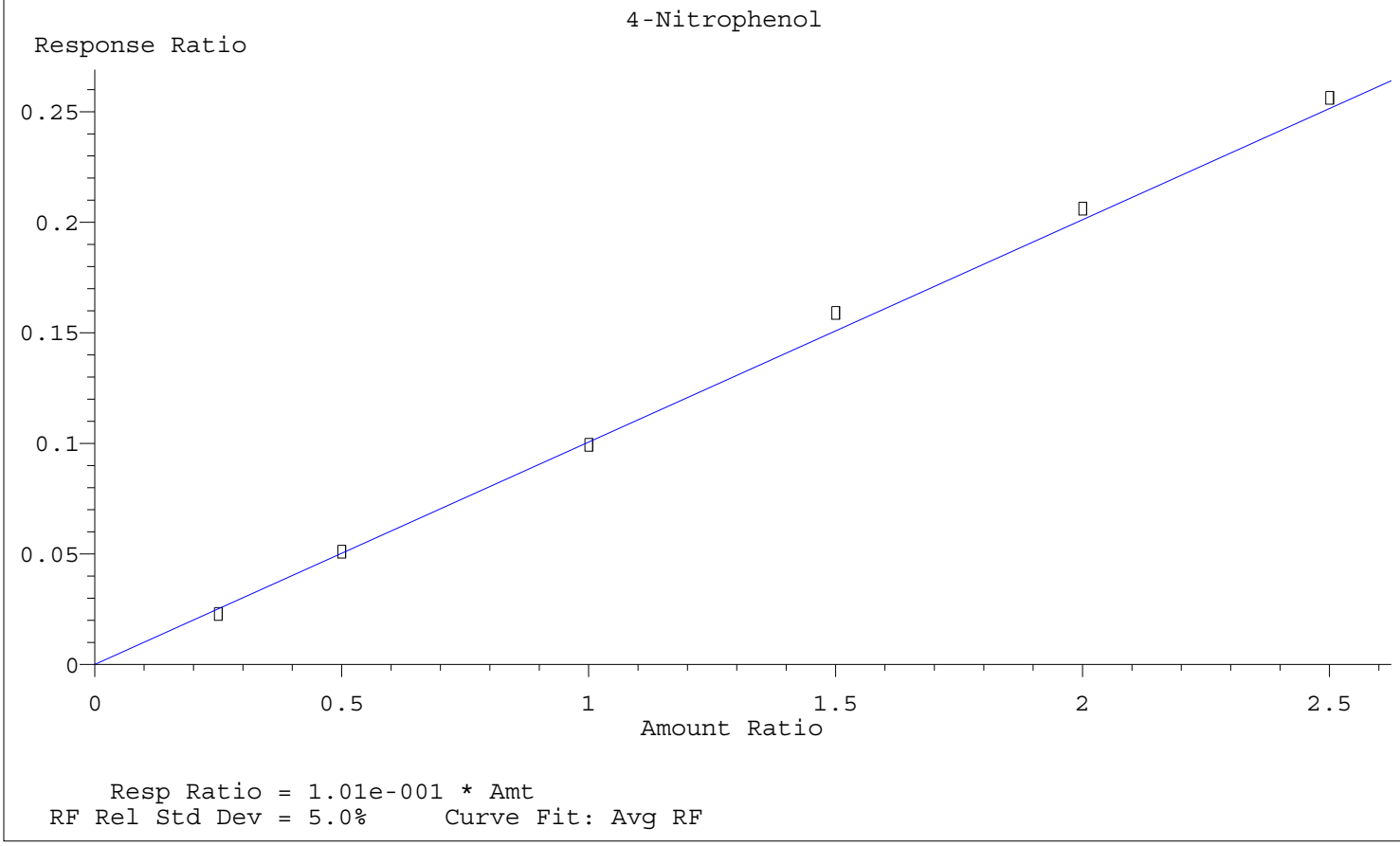
R = 1.18e-004 A*A + 1.97e-001 A - 2.34e-002
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a)



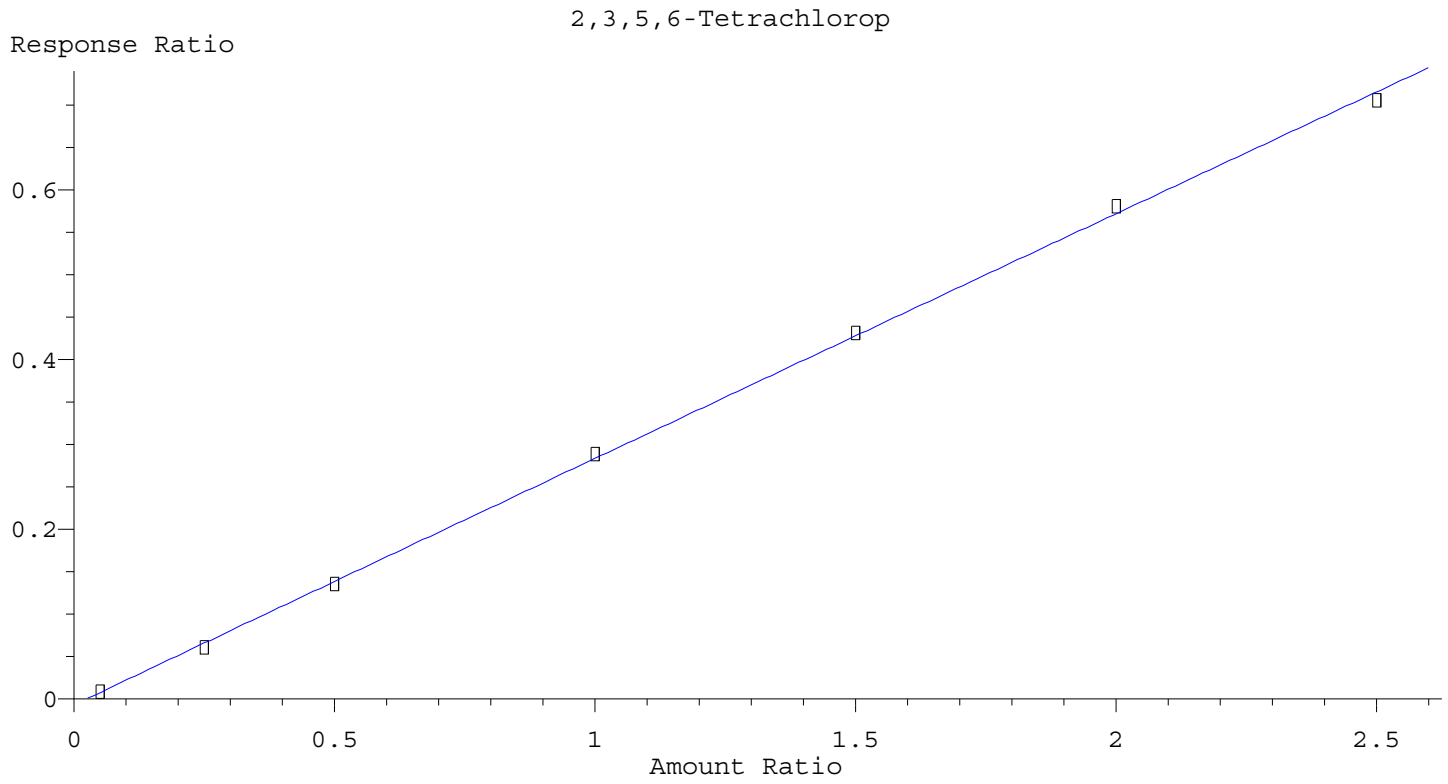
Resp Ratio = 1.62e+000 * Amt
RF Rel Std Dev = 4.9% Curve Fit: Avg RF



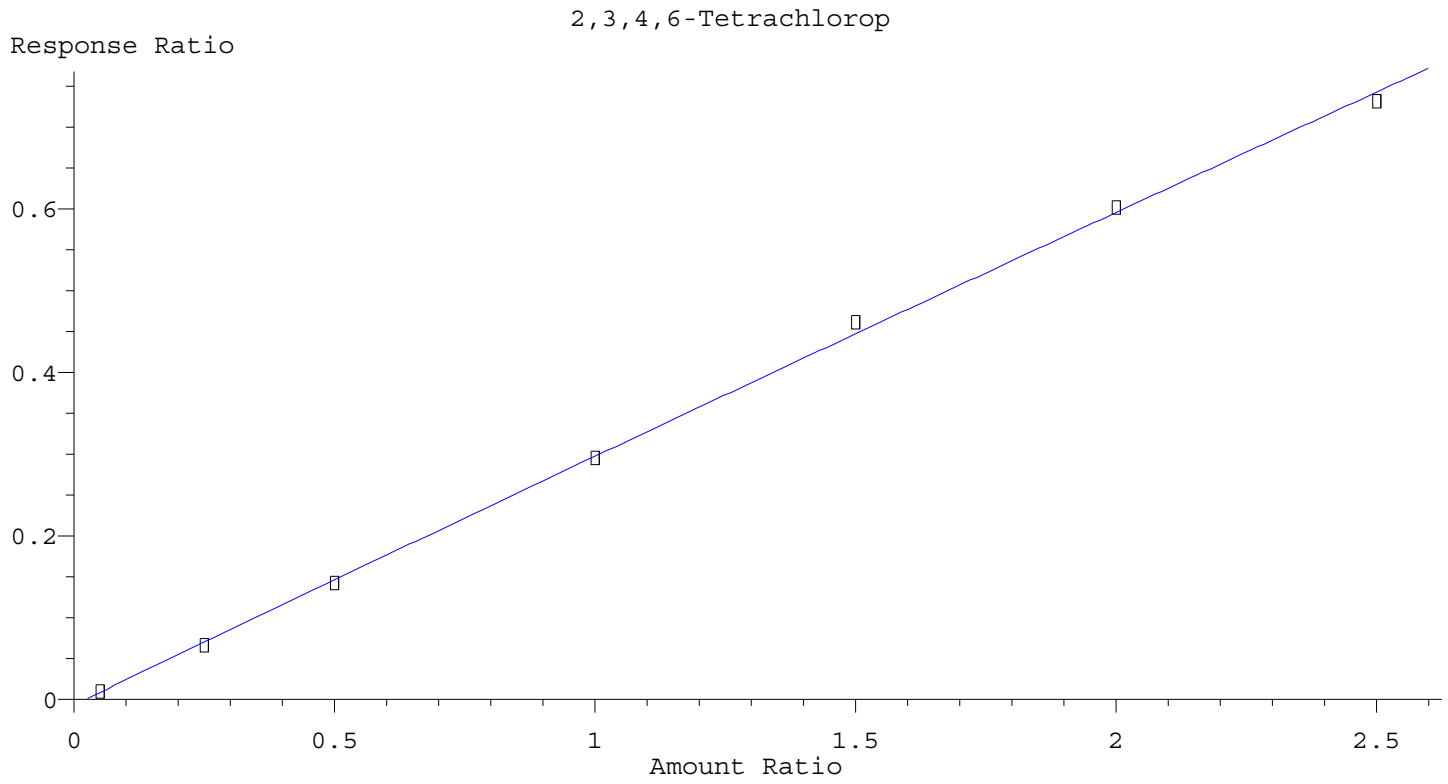
Resp Ratio = 3.64e-001 * Amt
RF Rel Std Dev = 7.8% Curve Fit: Avg RF



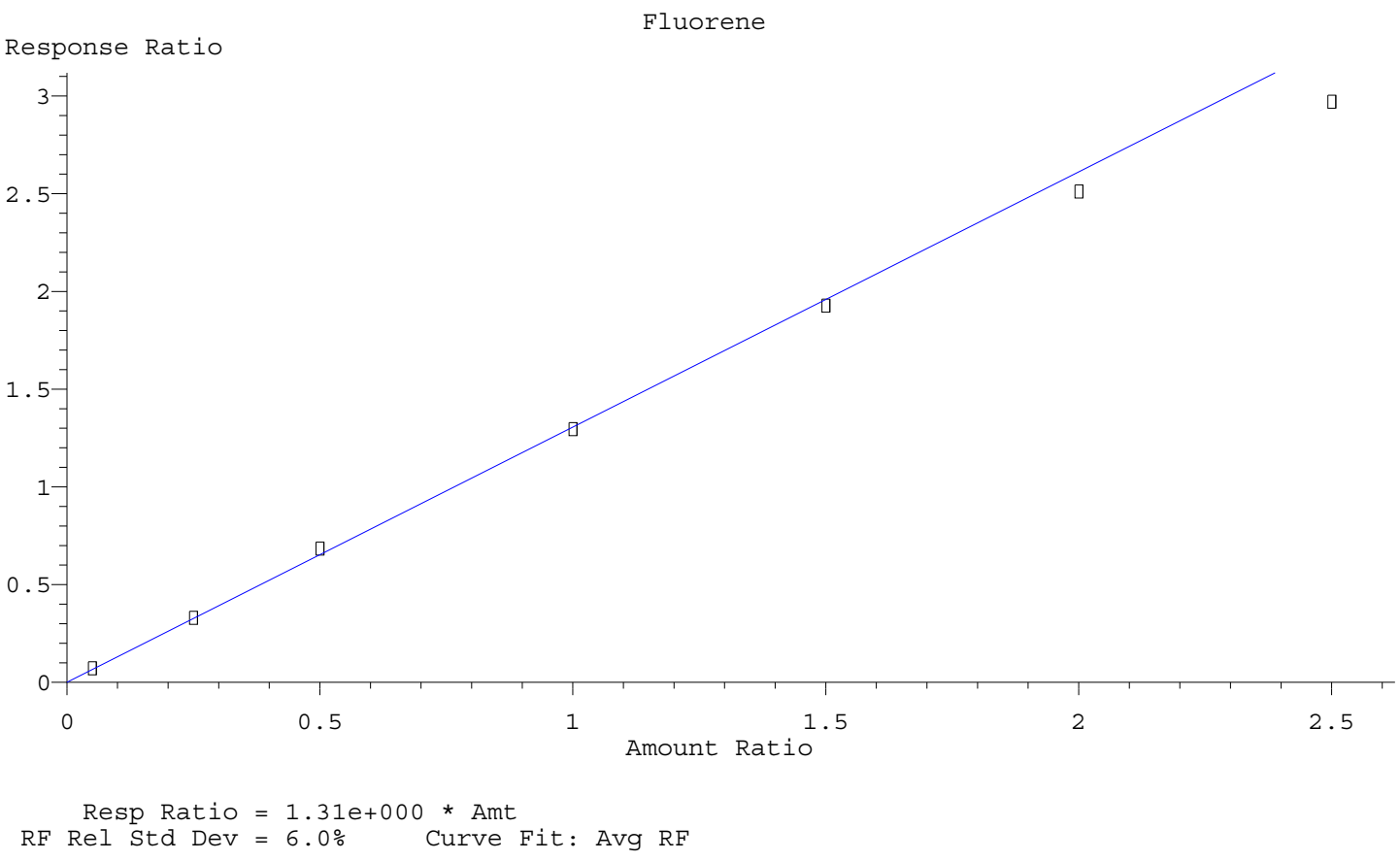
Resp Ratio = 1.01e-001 * Amt
RF Rel Std Dev = 5.0% Curve Fit: Avg RF



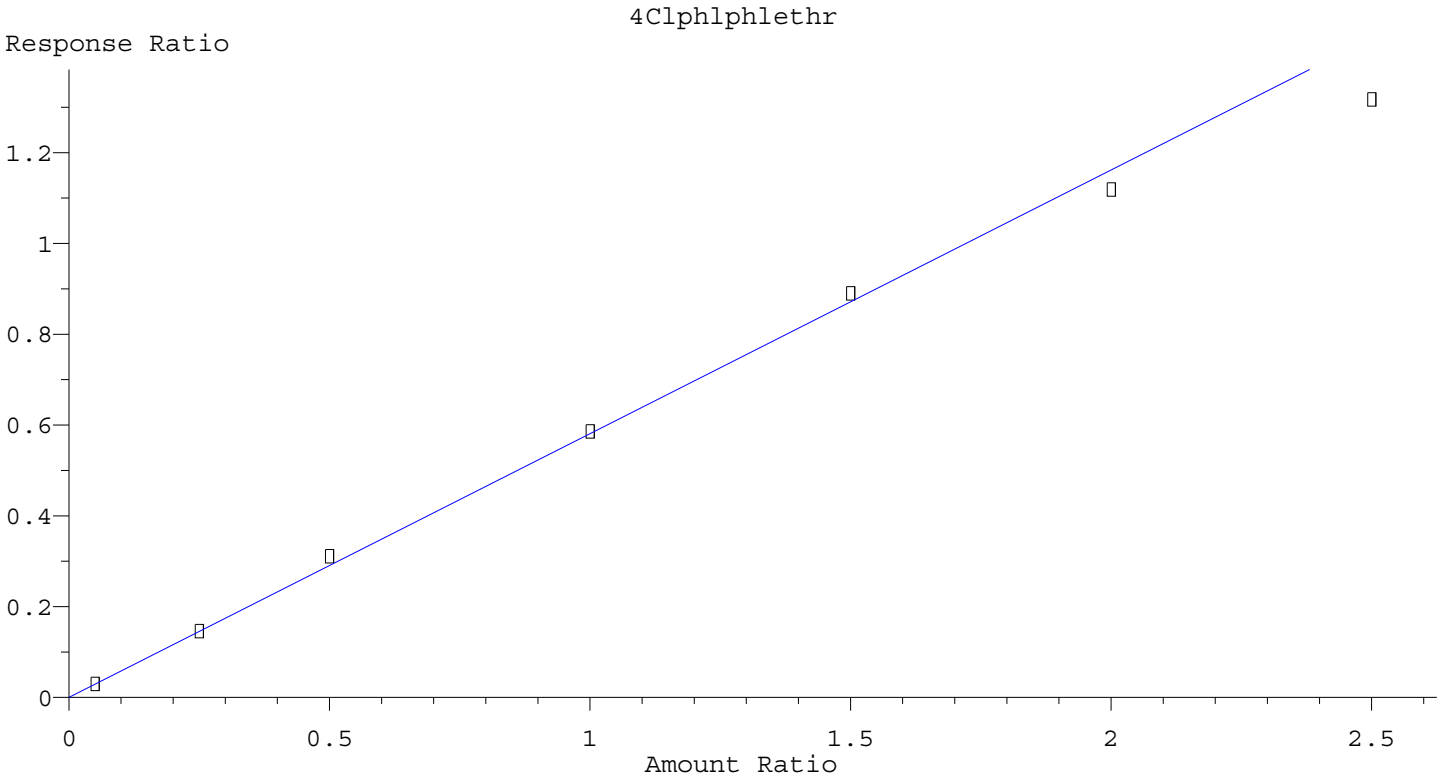
R = -9.65e-004 A*A + 2.91e-001 A - 7.00e-003
Coef of Det (r^2) = 1.000 Curve Fit: Quadratic w(1/a)



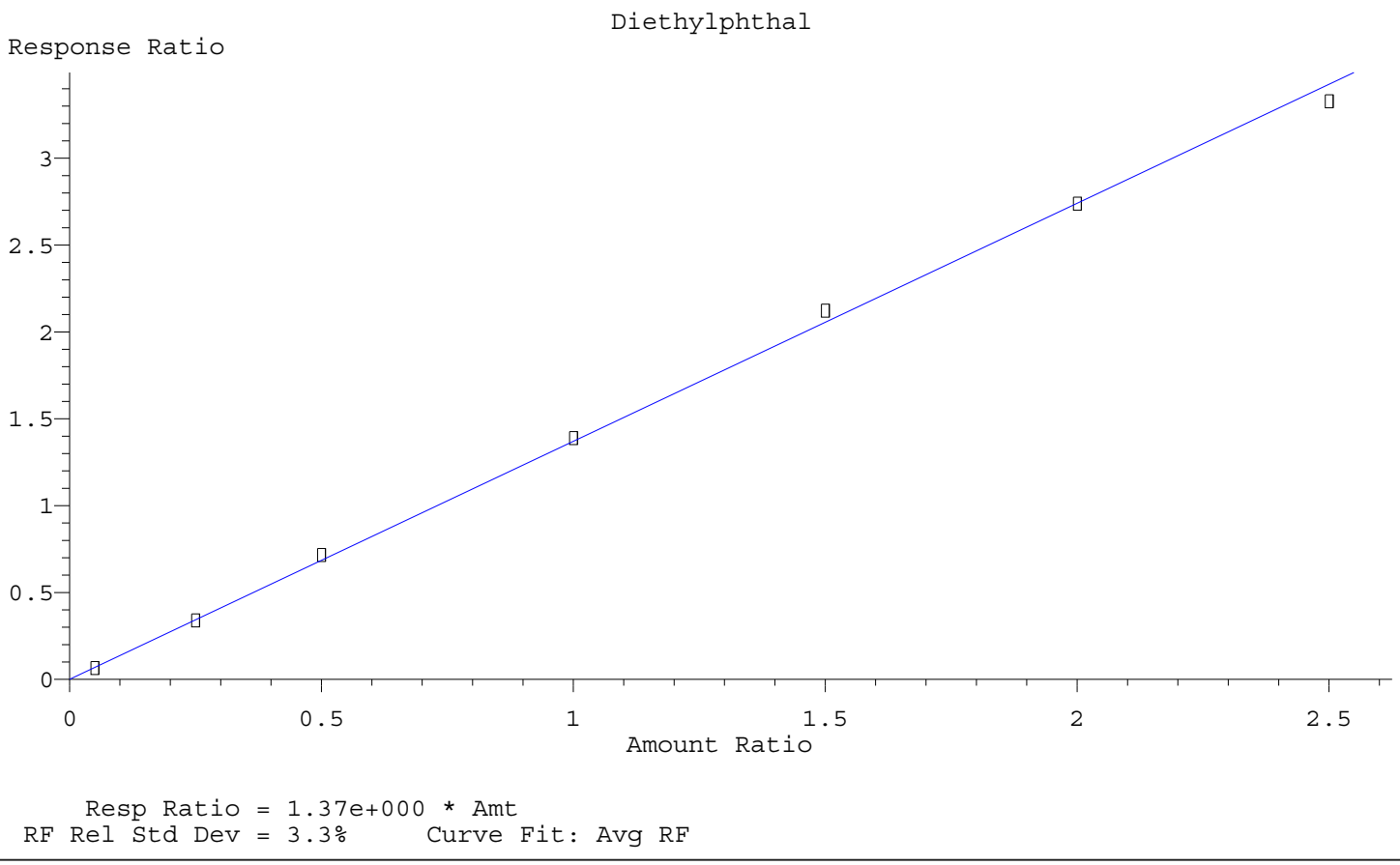
R = -2.82e-003 A*A + 3.07e-001 A - 6.64e-003
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a)



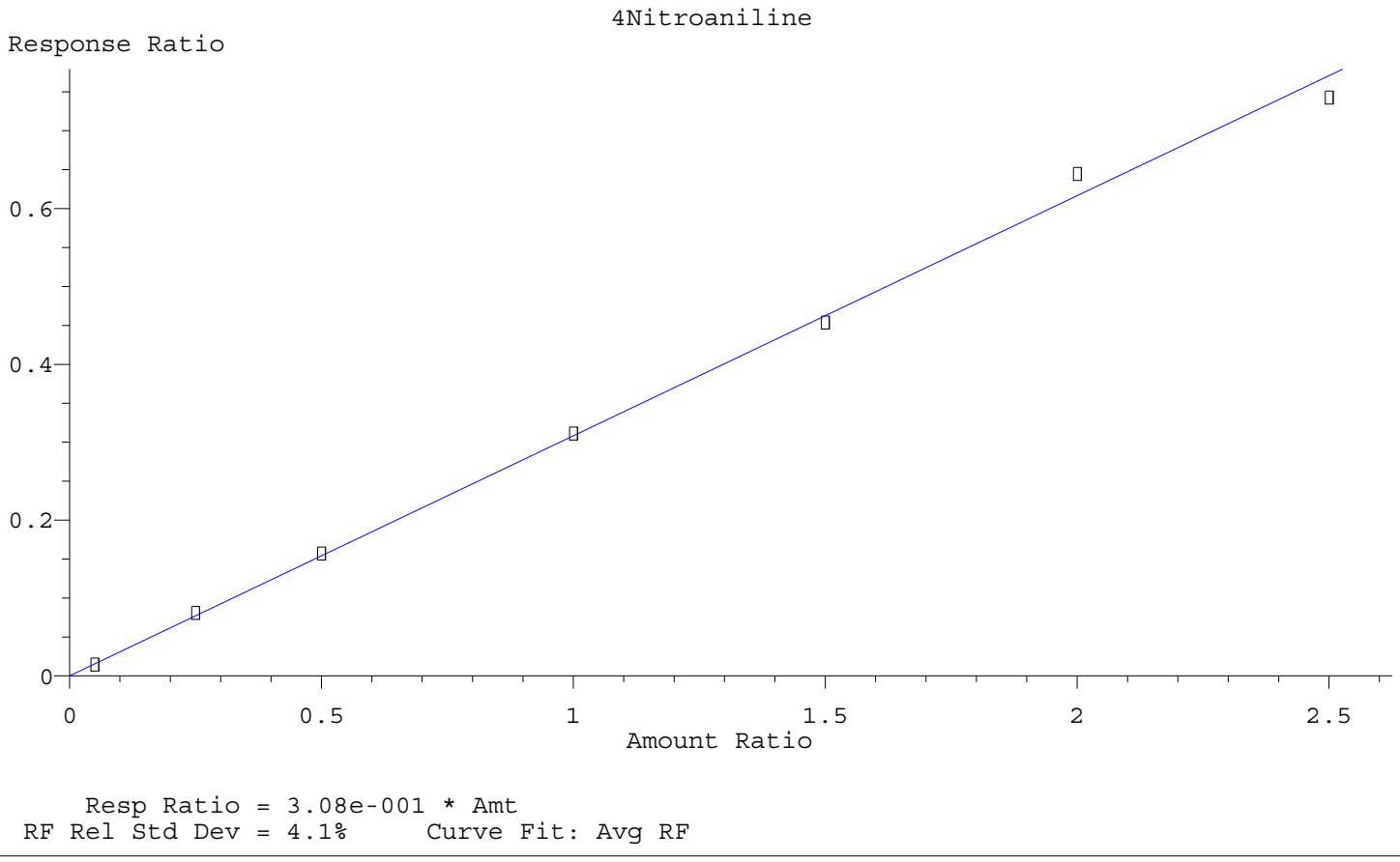
Resp Ratio = 1.31e+000 * Amt
RF Rel Std Dev = 6.0% Curve Fit: Avg RF



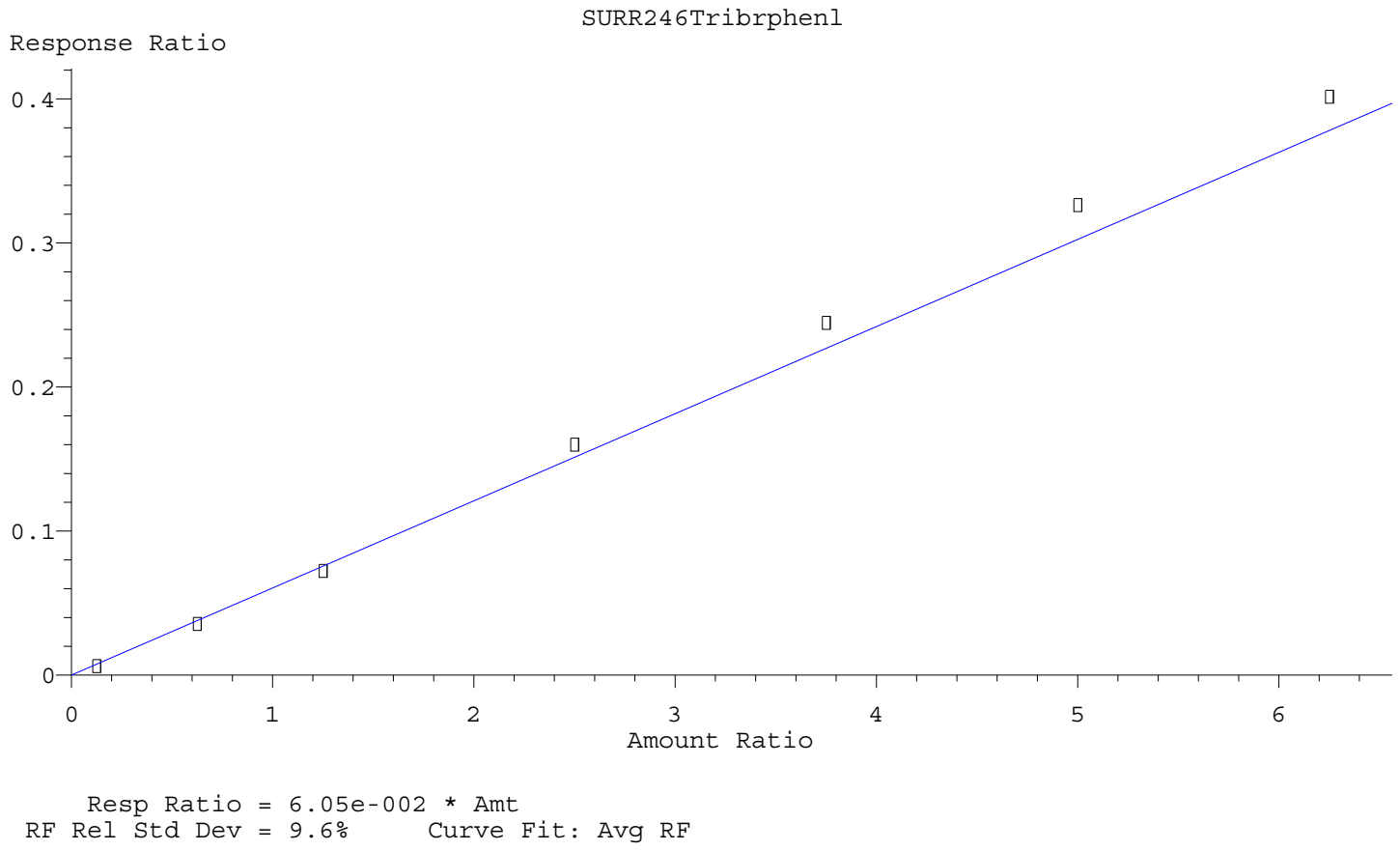
Resp Ratio = 5.81e-001 * Amt
RF Rel Std Dev = 5.2% Curve Fit: Avg RF



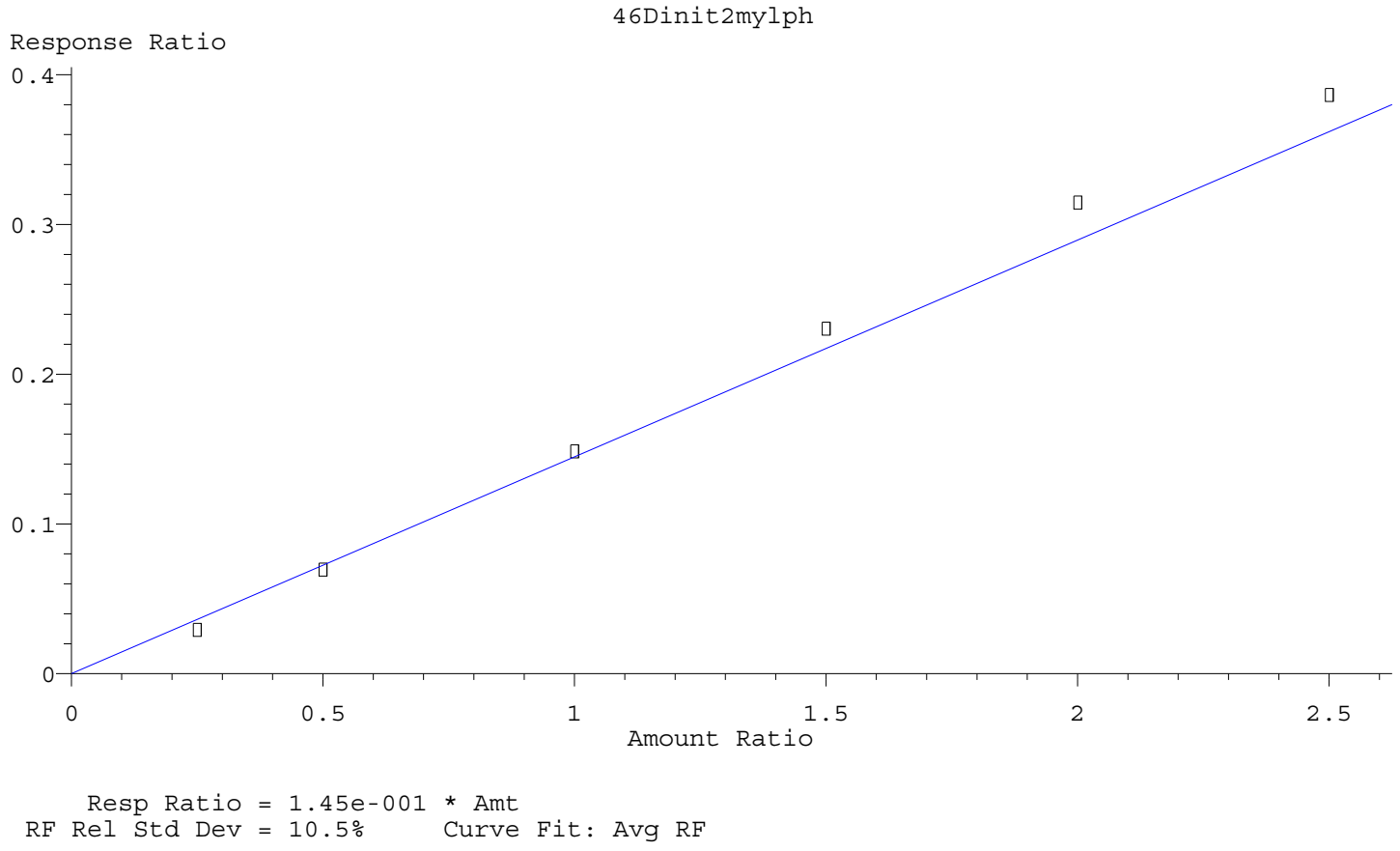
Resp Ratio = 1.37e+000 * Amt
RF Rel Std Dev = 3.3% Curve Fit: Avg RF



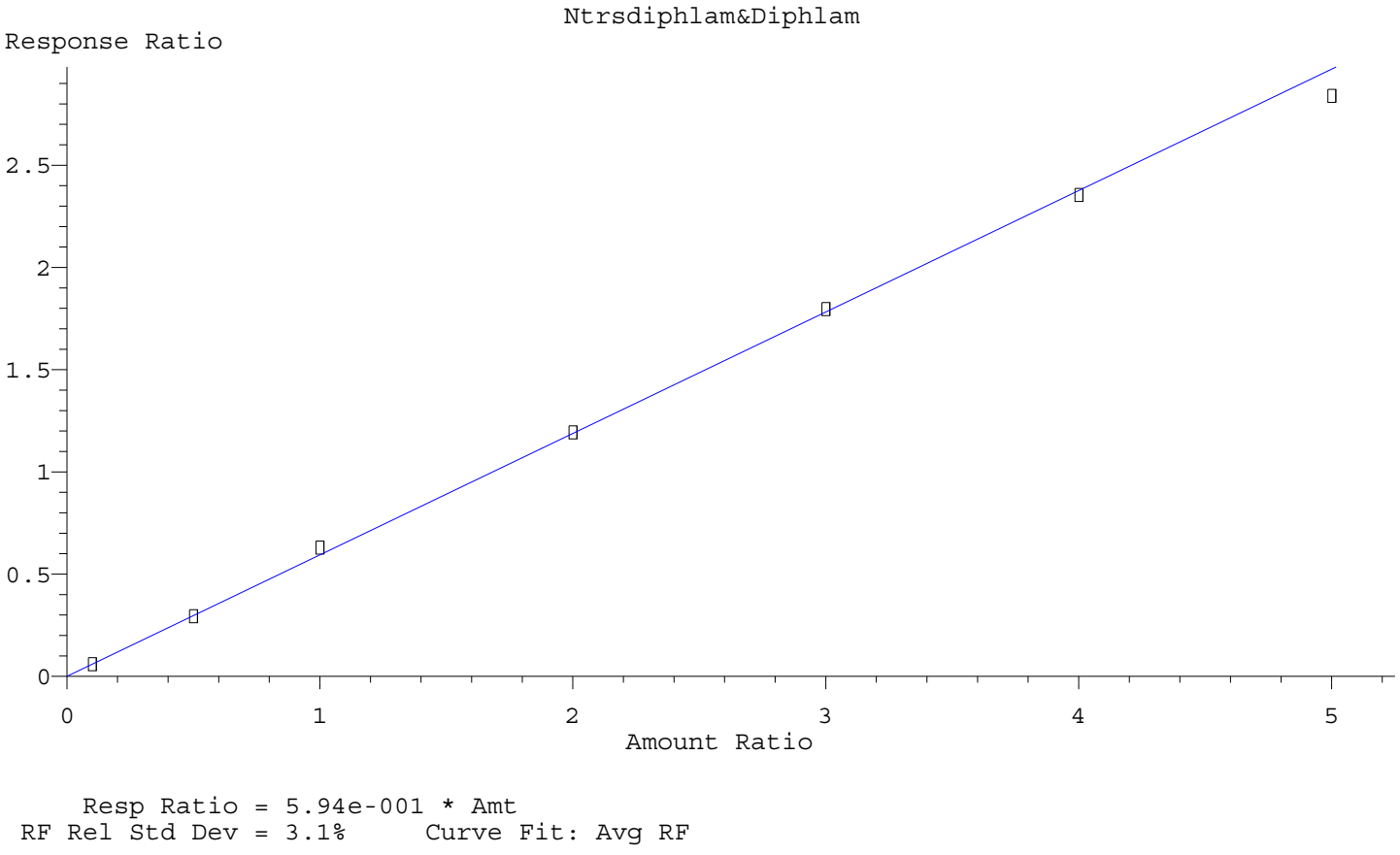
Resp Ratio = 3.08e-001 * Amt
RF Rel Std Dev = 4.1% Curve Fit: Avg RF



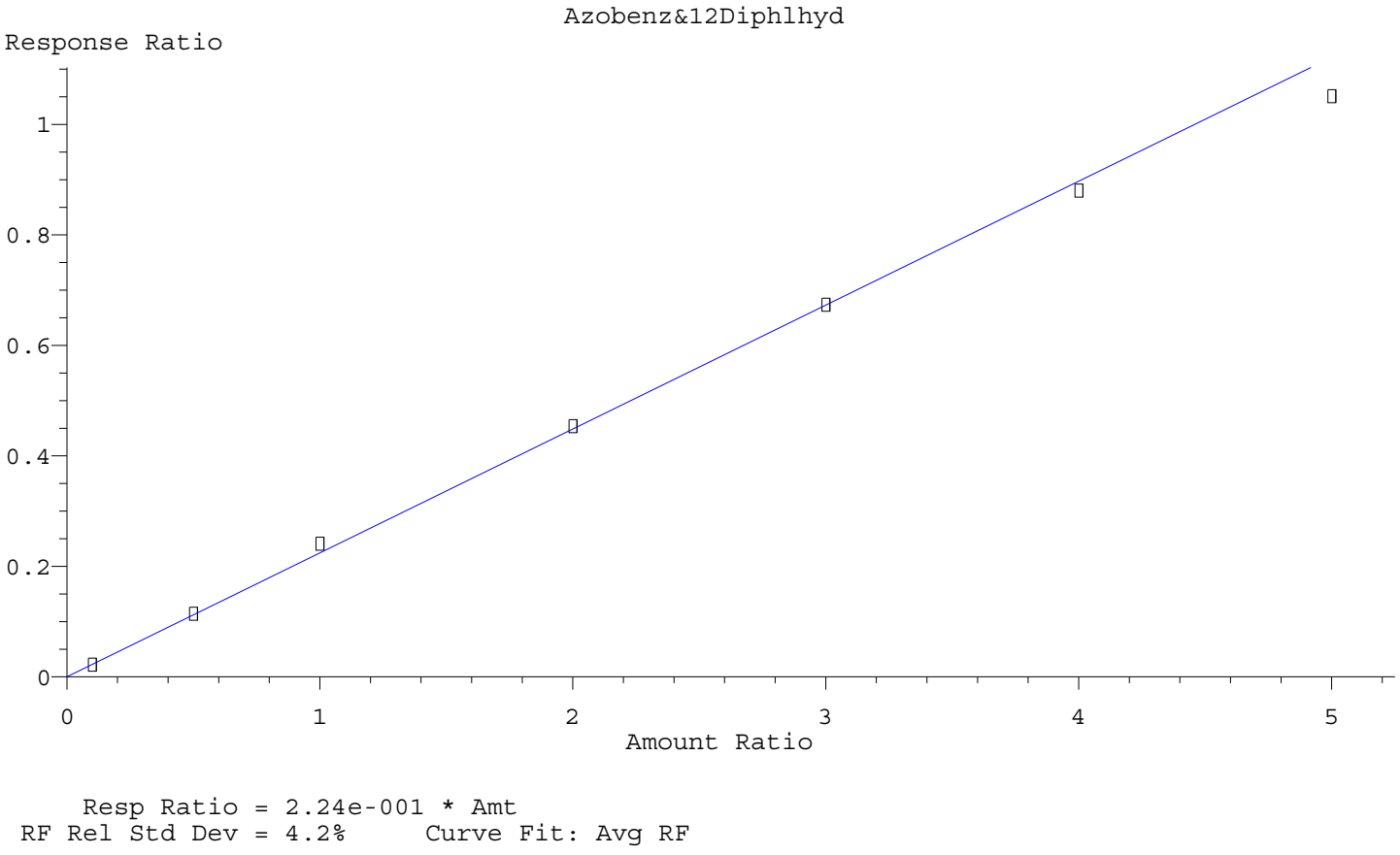
Resp Ratio = 6.05e-002 * Amt
RF Rel Std Dev = 9.6% Curve Fit: Avg RF



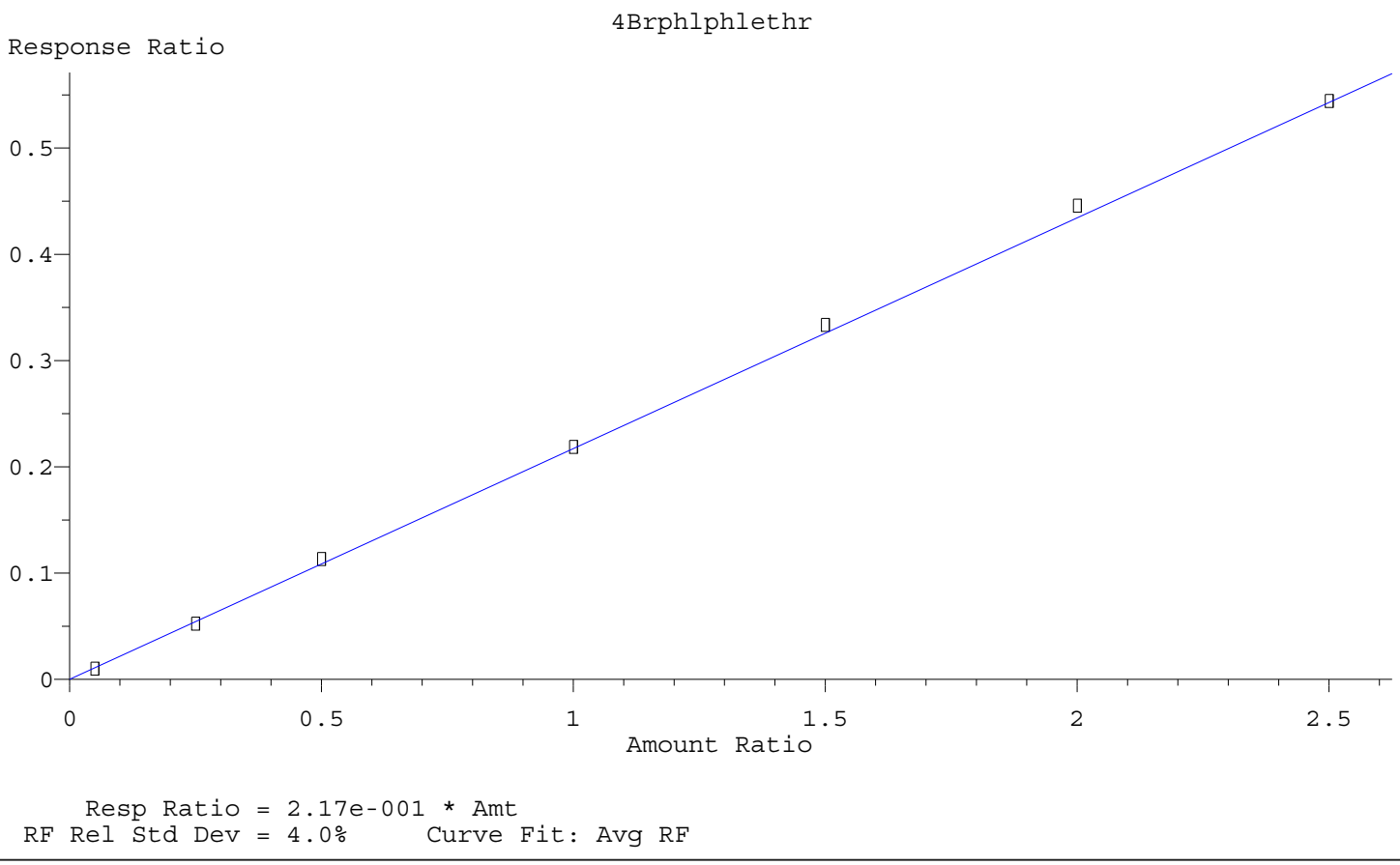
Resp Ratio = 1.45e-001 * Amt
RF Rel Std Dev = 10.5% Curve Fit: Avg RF



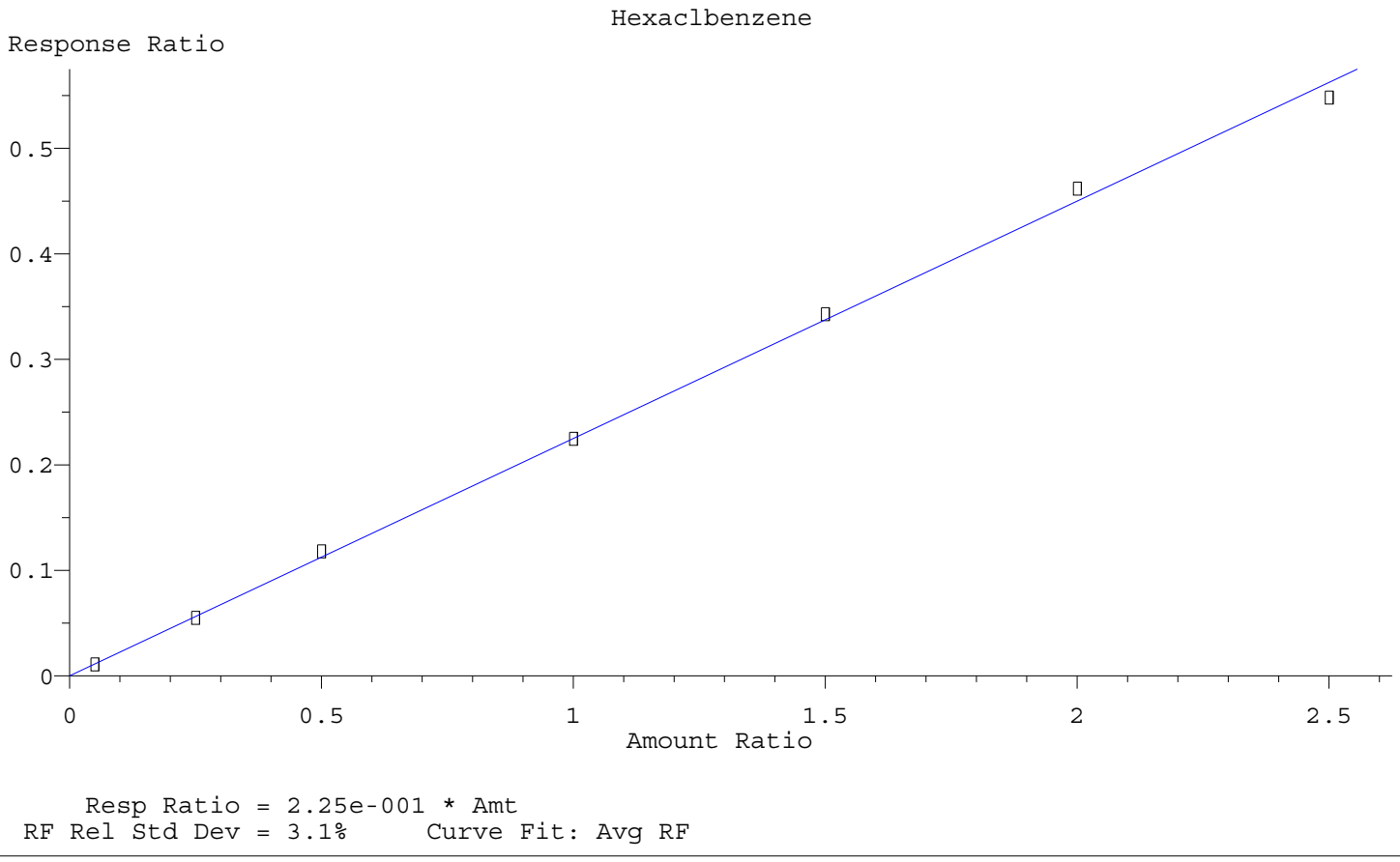
Resp Ratio = 5.94e-001 * Amt
RF Rel Std Dev = 3.1% Curve Fit: Avg RF



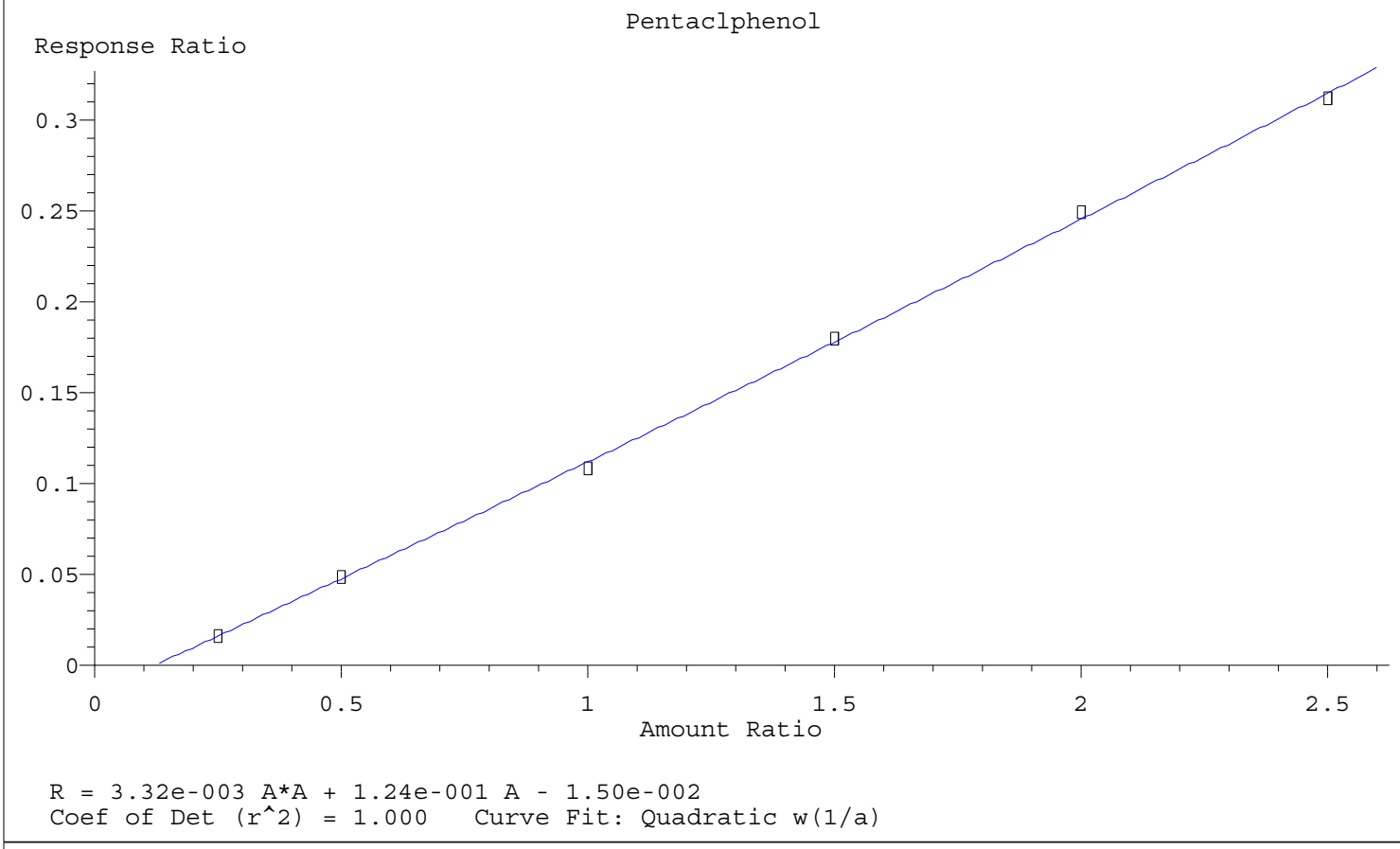
Resp Ratio = 2.24e-001 * Amt
RF Rel Std Dev = 4.2% Curve Fit: Avg RF



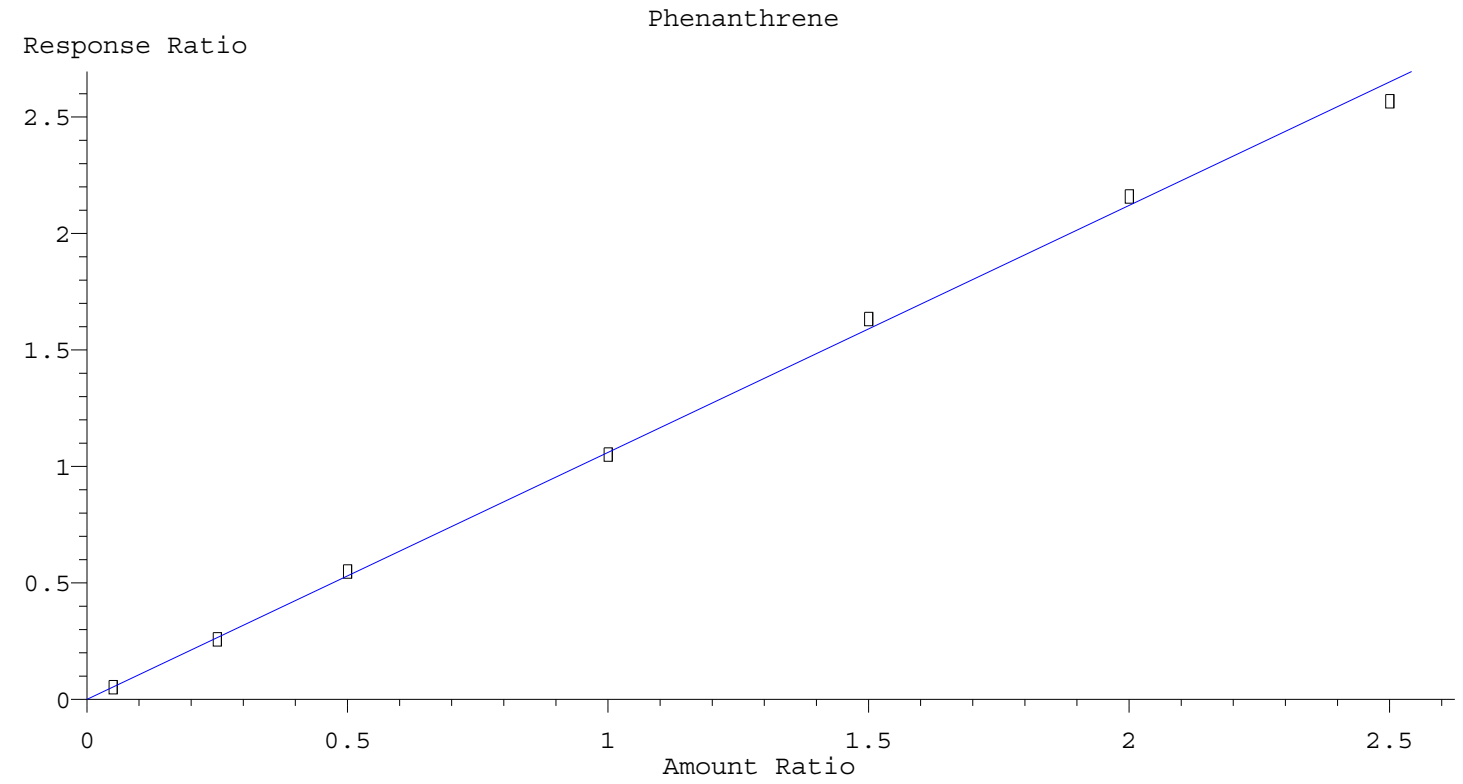
Resp Ratio = 2.17e-001 * Amt
RF Rel Std Dev = 4.0% Curve Fit: Avg RF



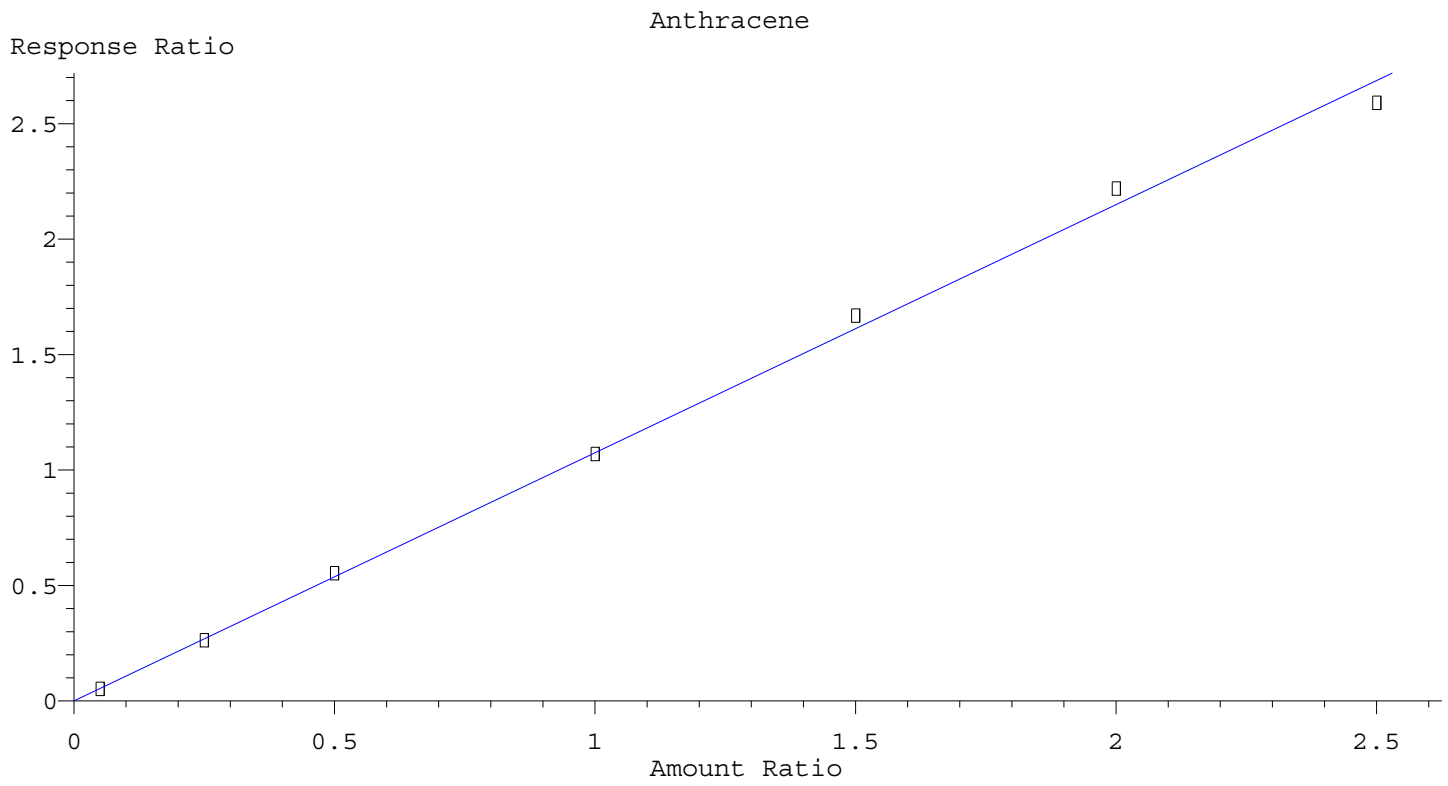
Resp Ratio = 2.25e-001 * Amt
RF Rel Std Dev = 3.1% Curve Fit: Avg RF



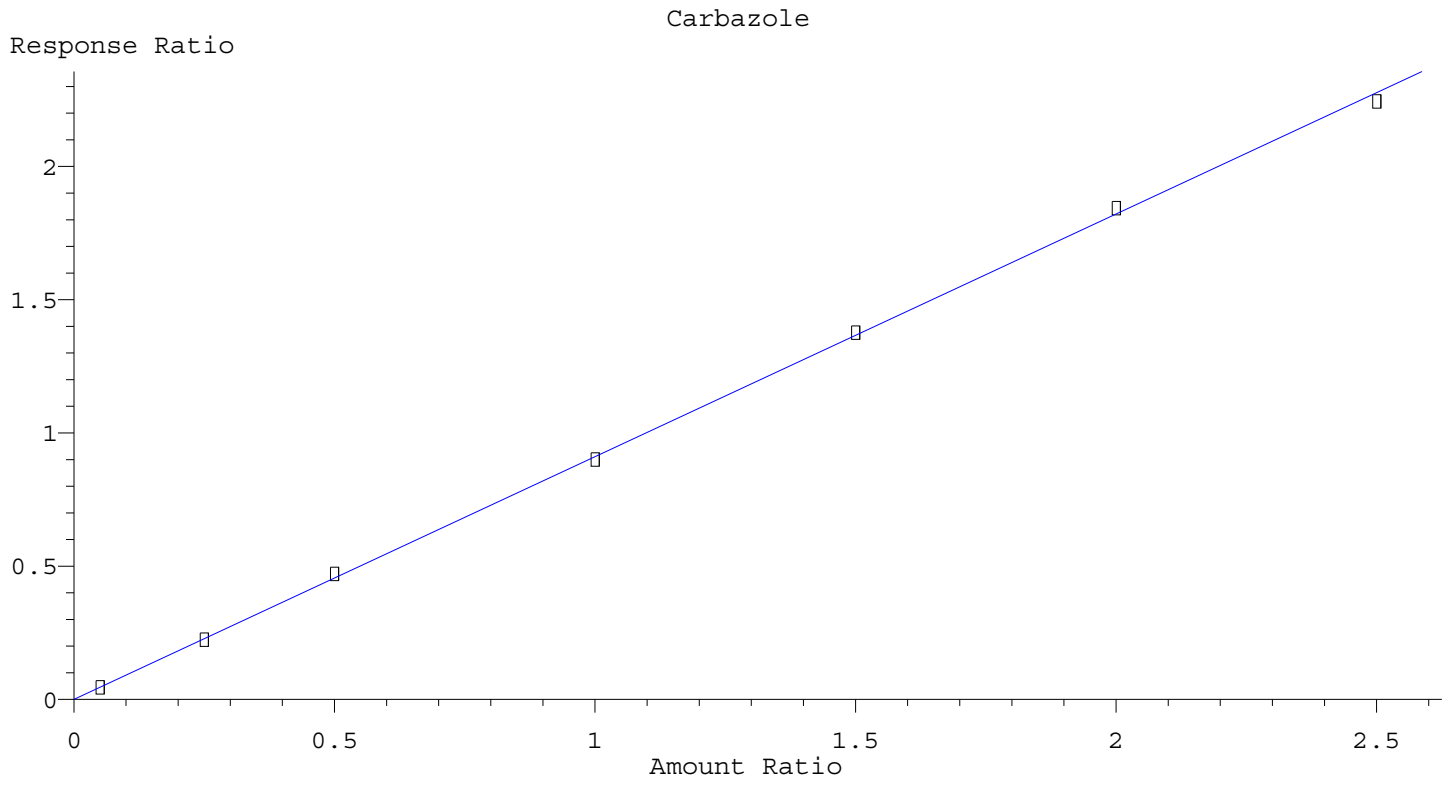
R = 3.32e-003 A*A + 1.24e-001 A - 1.50e-002
Coef of Det (r^2) = 1.000 Curve Fit: Quadratic w(1/a)



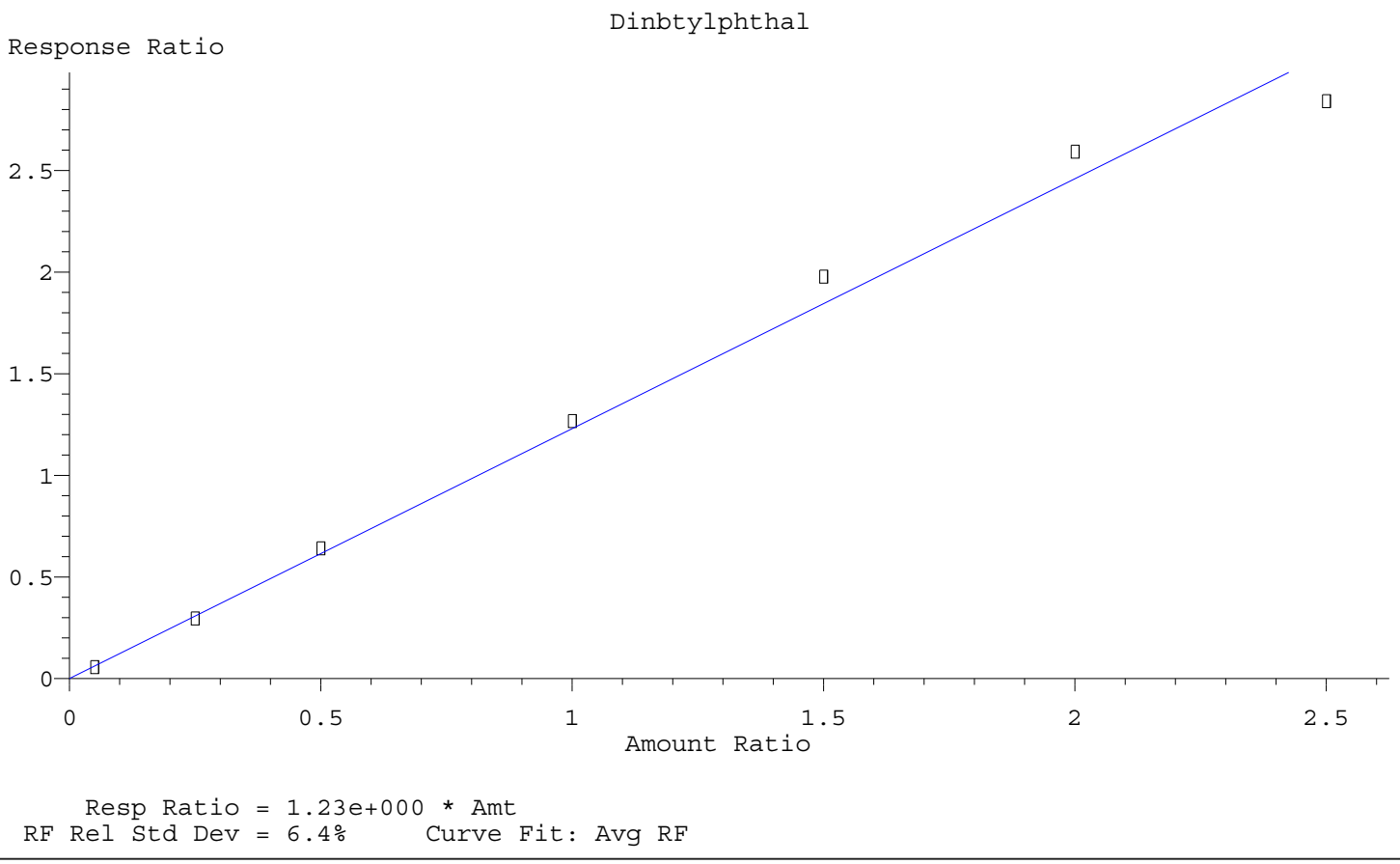
Resp Ratio = 1.06e+000 * Amt
RF Rel Std Dev = 2.7% Curve Fit: Avg RF



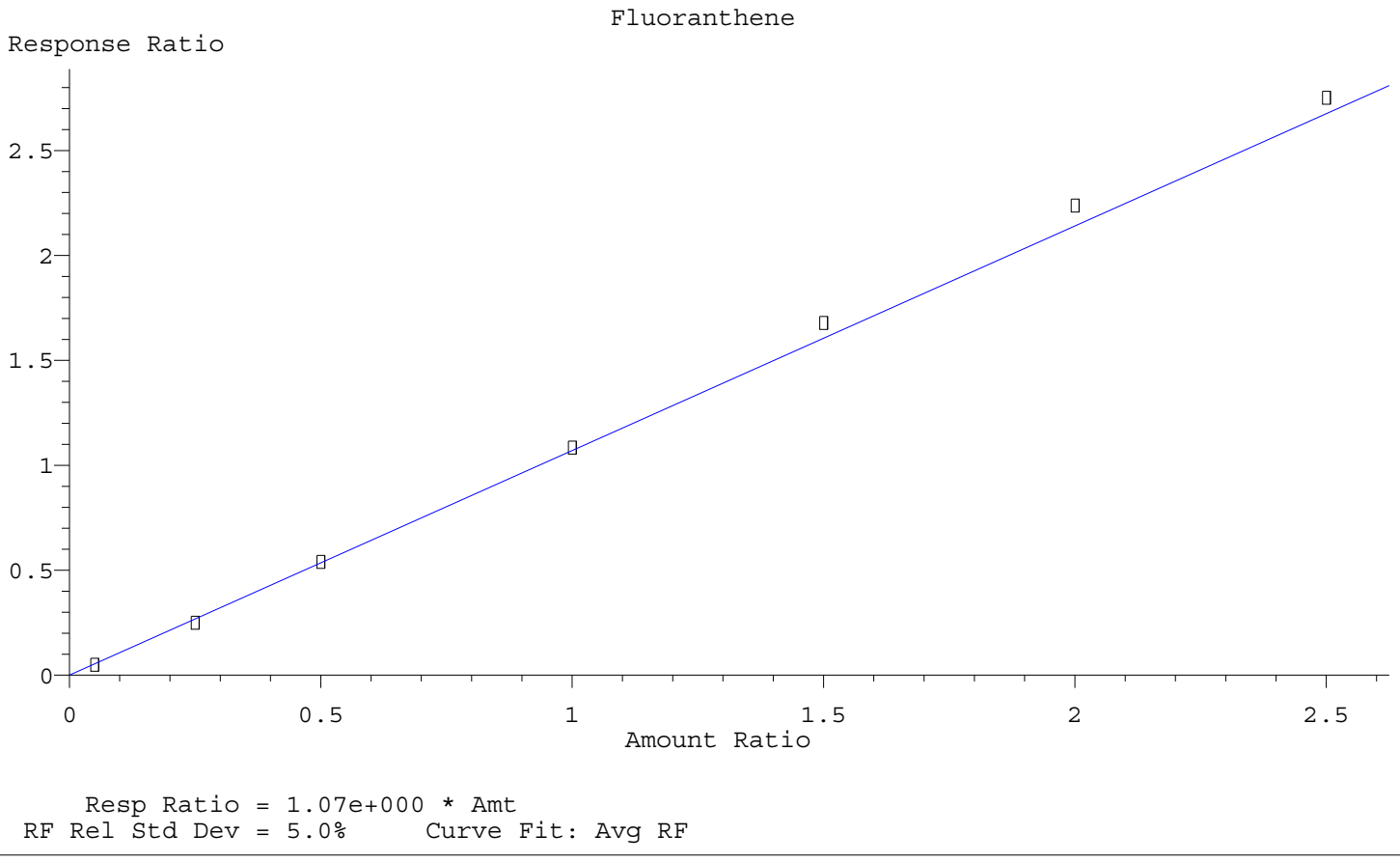
Resp Ratio = 1.08e+000 * Amt
RF Rel Std Dev = 3.1% Curve Fit: Avg RF



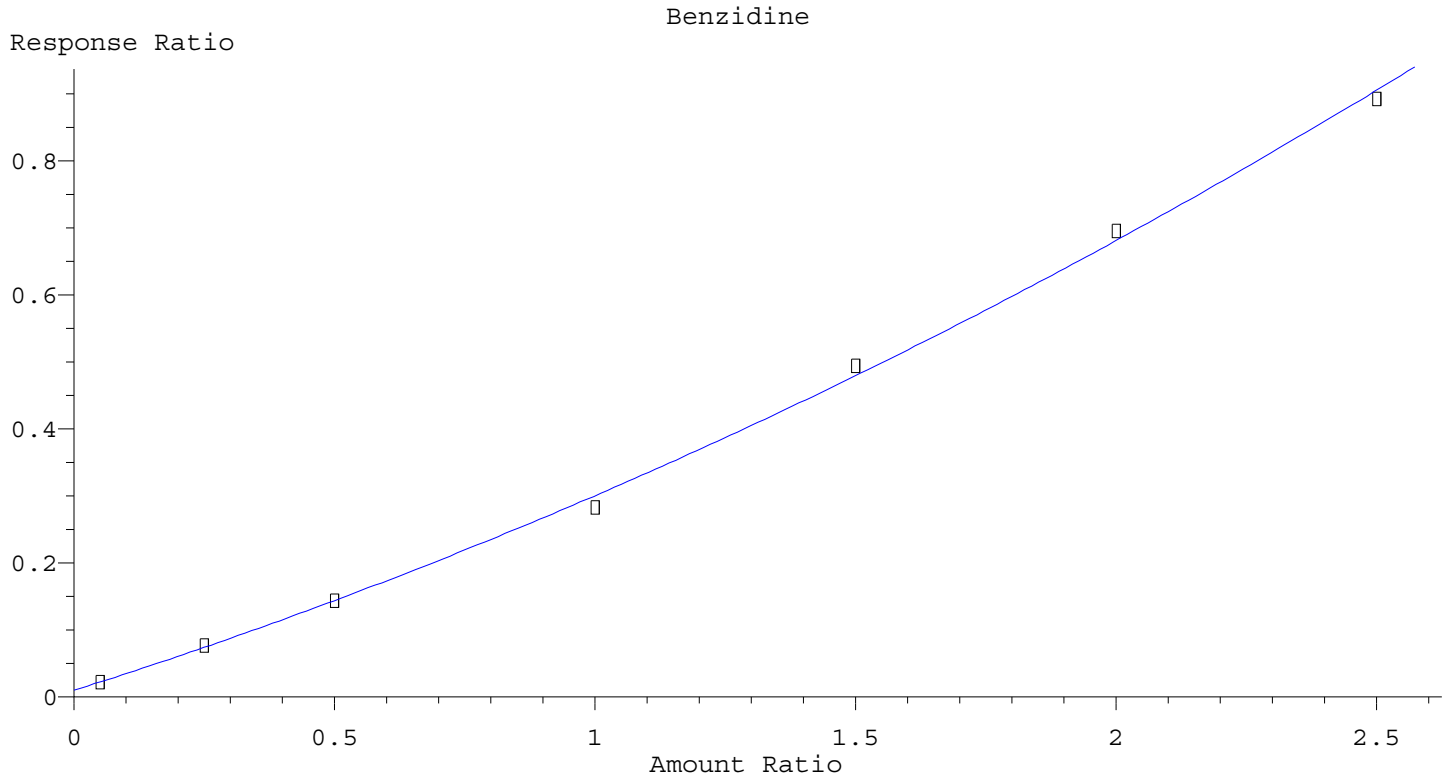
Resp Ratio = 9.11e-001 * Amt
RF Rel Std Dev = 1.8% Curve Fit: Avg RF



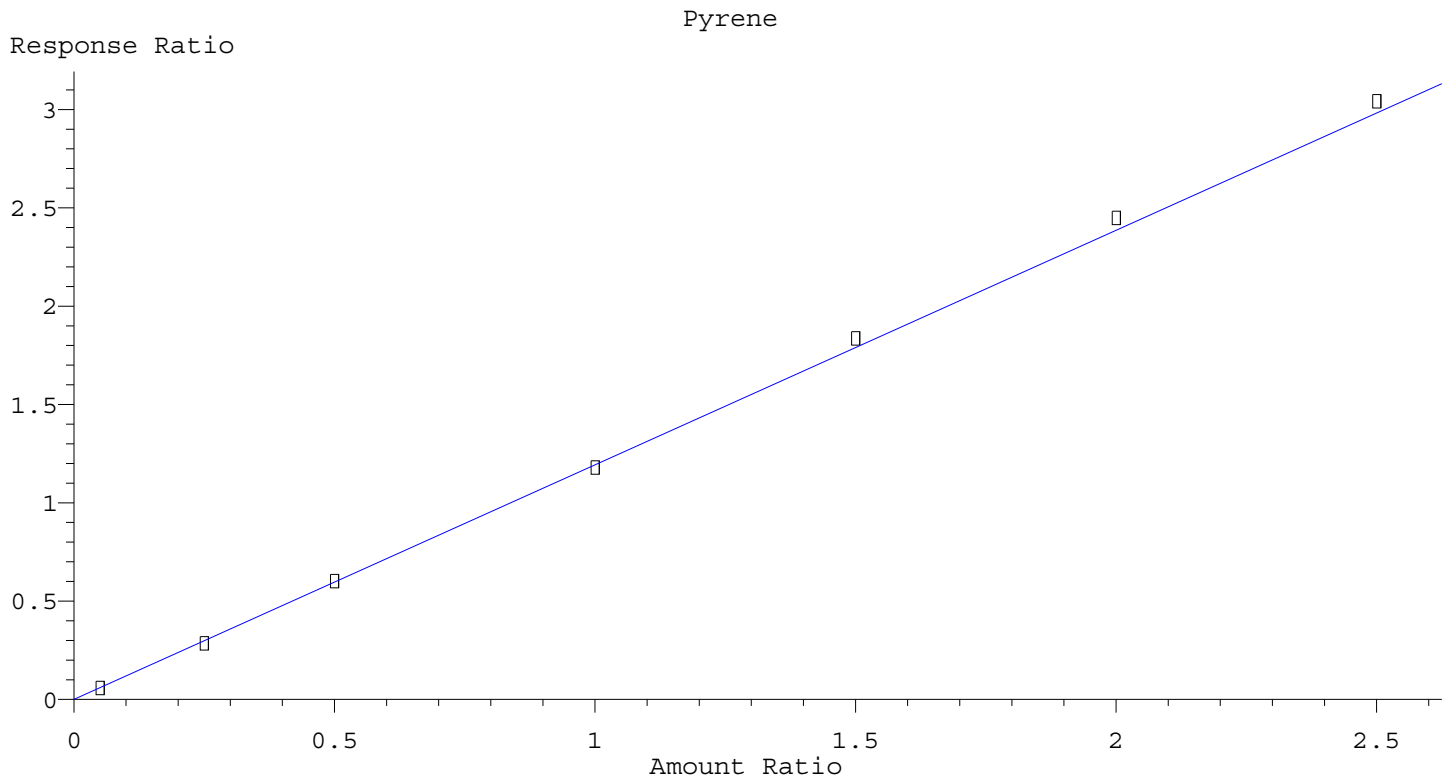
Resp Ratio = 1.23e+000 * Amt
RF Rel Std Dev = 6.4% Curve Fit: Avg RF



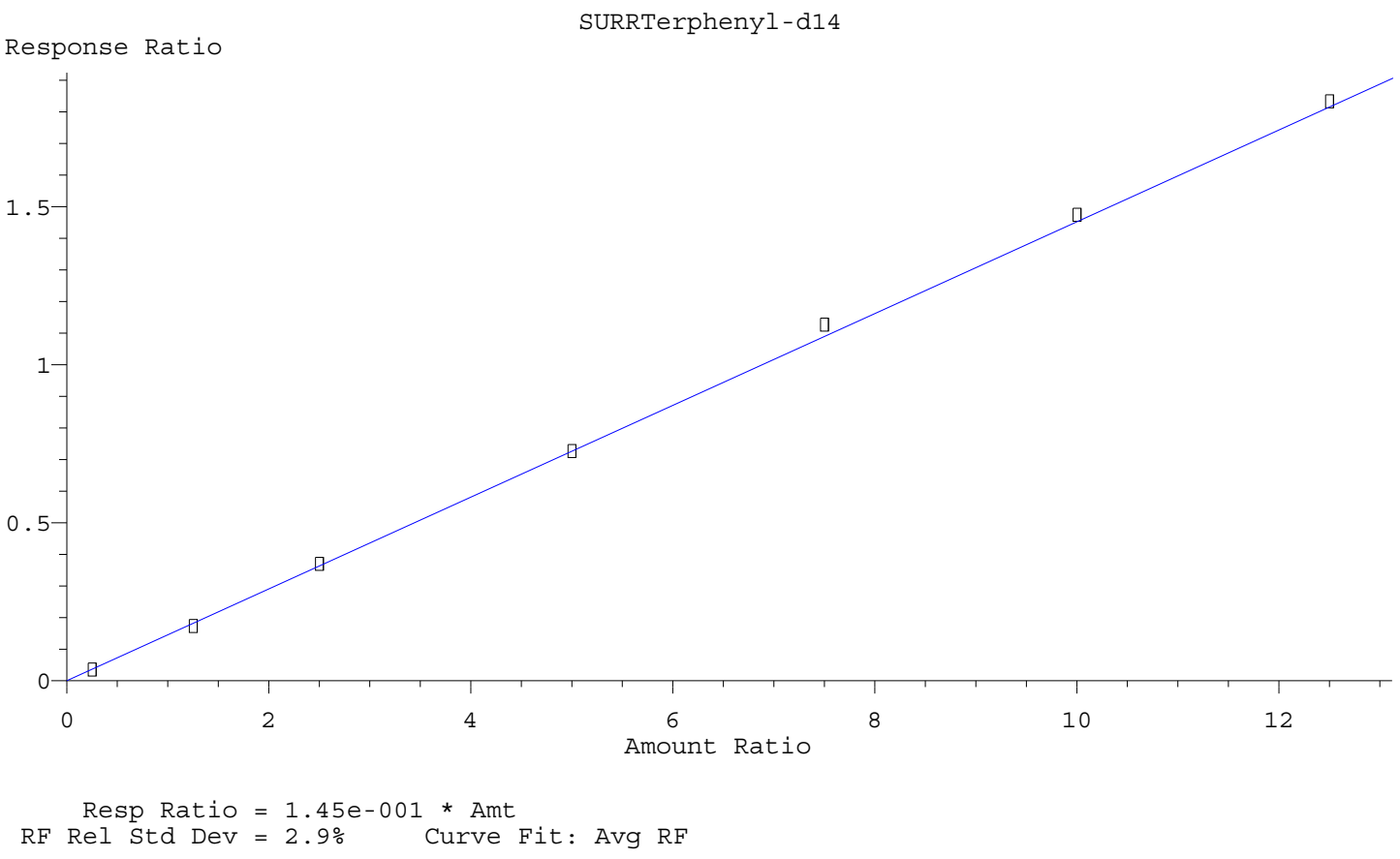
Resp Ratio = 1.07e+000 * Amt
RF Rel Std Dev = 5.0% Curve Fit: Avg RF



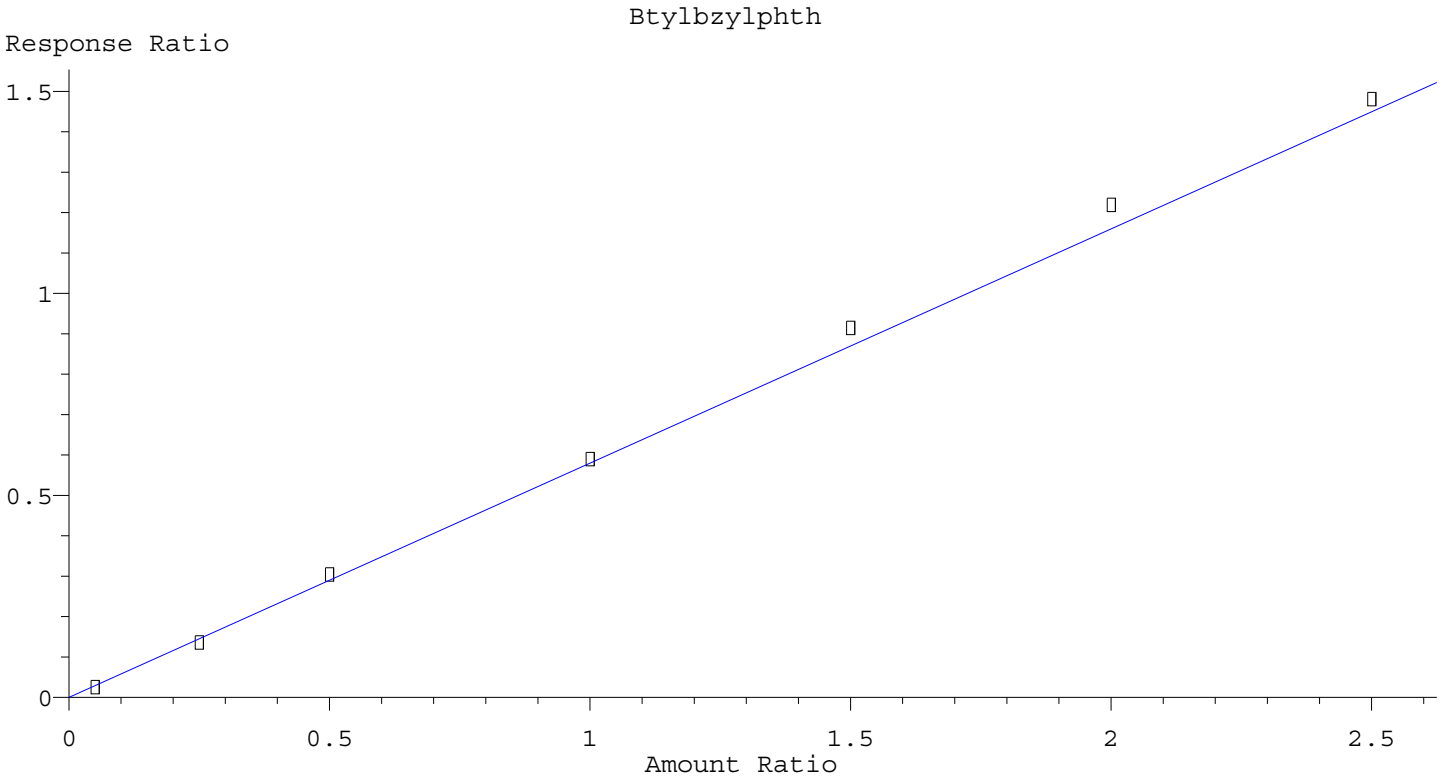
R = 4.52e-002 A*A + 2.45e-001 A + 9.86e-003
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a)



Resp Ratio = 1.19e+000 * Amt
RF Rel Std Dev = 2.8% Curve Fit: Avg RF

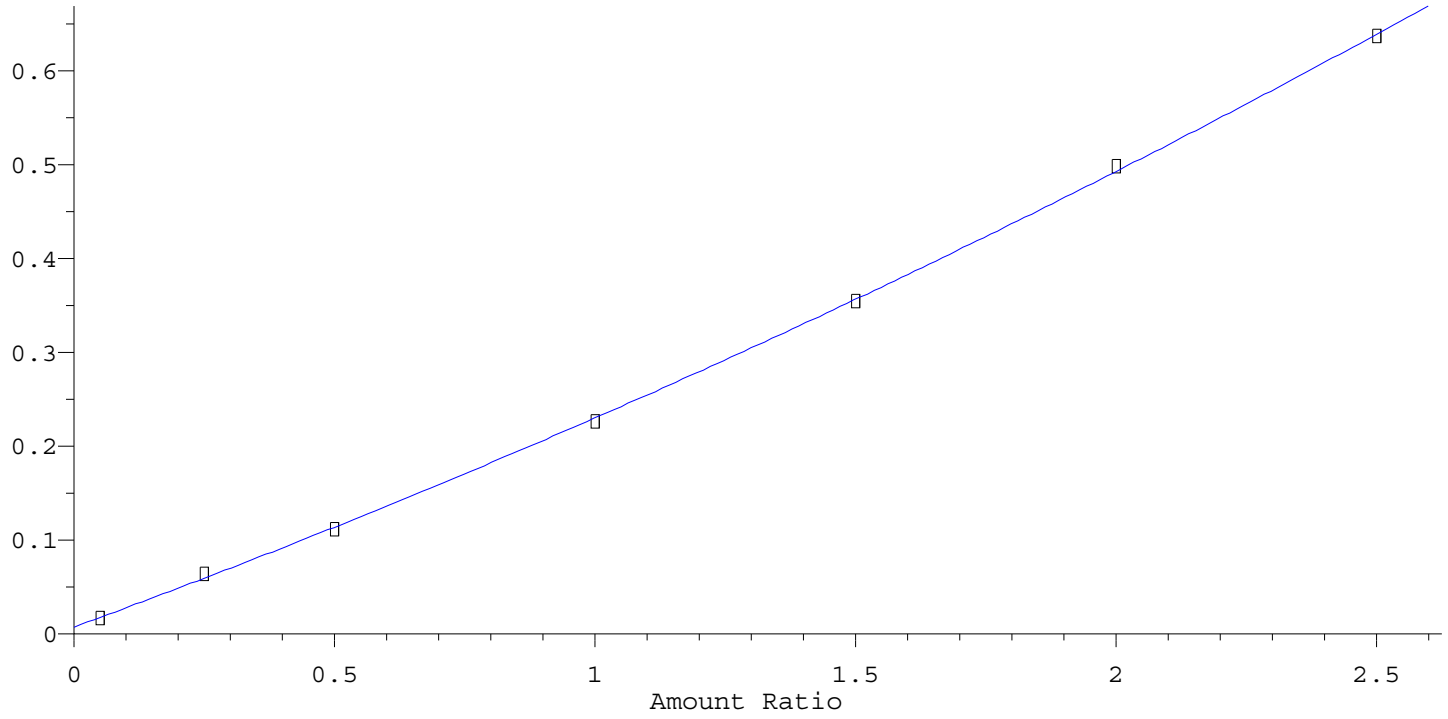


Resp Ratio = 1.45e-001 * Amt
RF Rel Std Dev = 2.9% Curve Fit: Avg RF



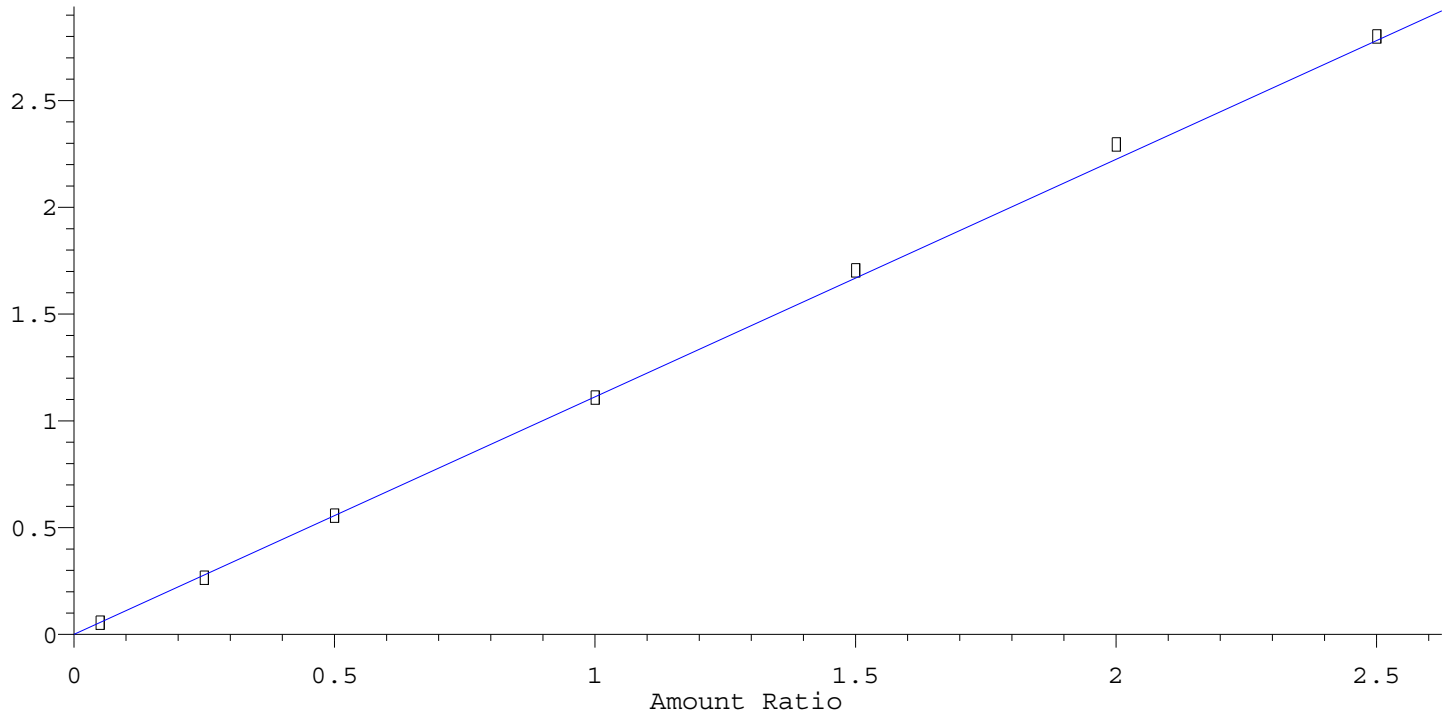
Resp Ratio = 5.80e-001 * Amt
RF Rel Std Dev = 6.9% Curve Fit: Avg RF

33Diclbnzidin

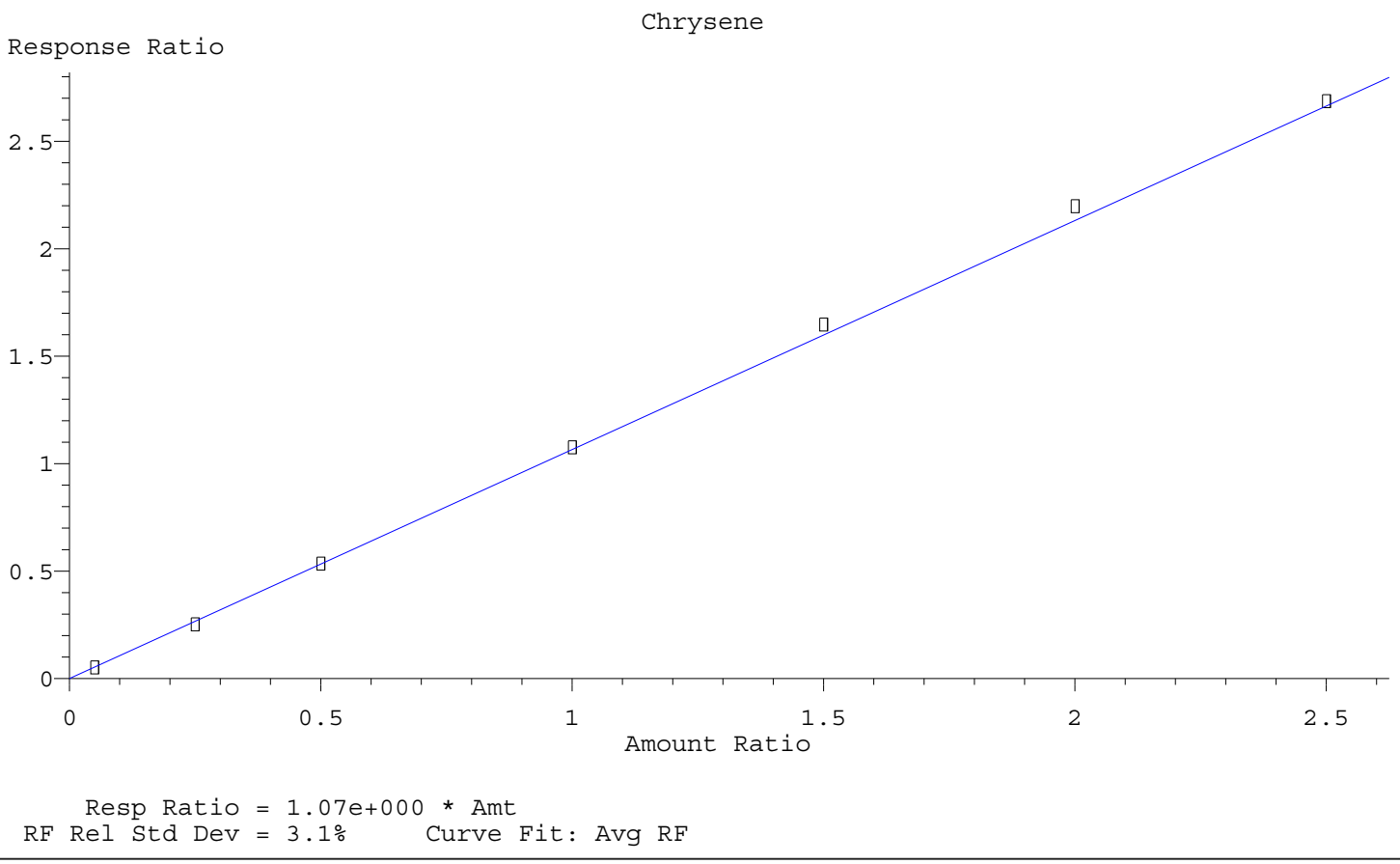


R = 1.99e-002 A*A + 2.03e-001 A + 7.33e-003
Coef of Det (r^2) = 1.000 Curve Fit: Quadratic w(1/a)

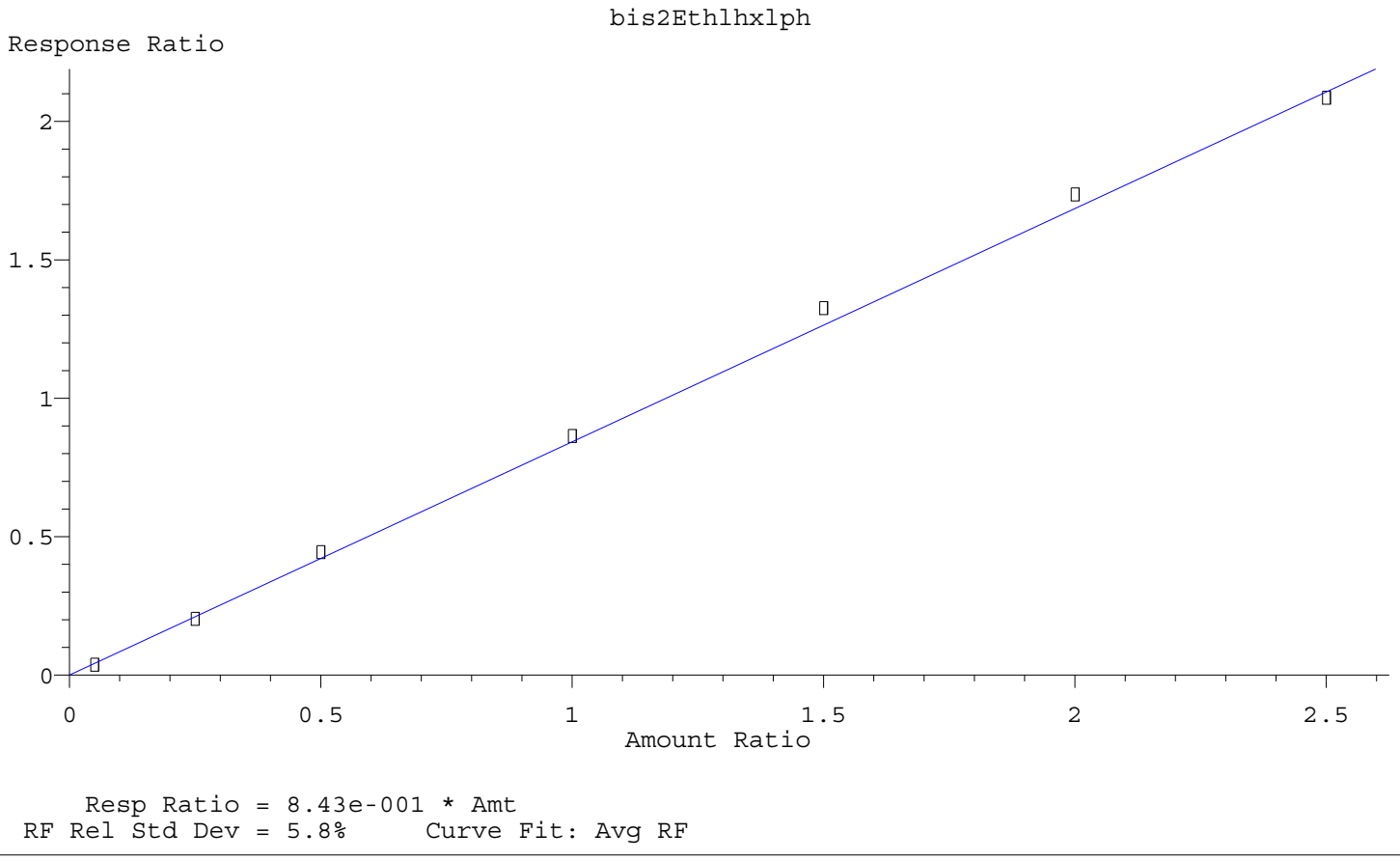
B[a]anthracen



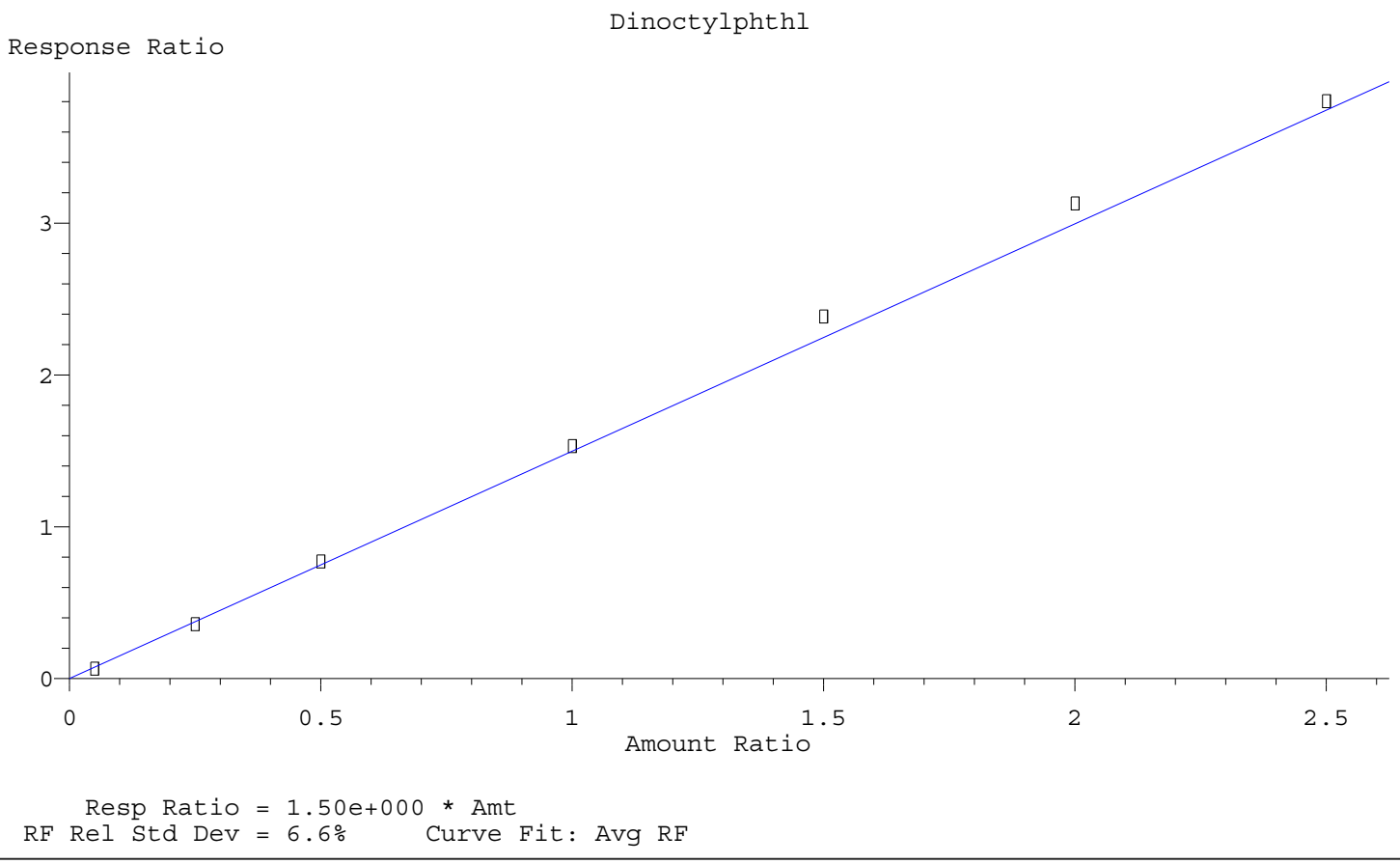
Resp Ratio = 1.11e+000 * Amt
RF Rel Std Dev = 2.5% Curve Fit: Avg RF



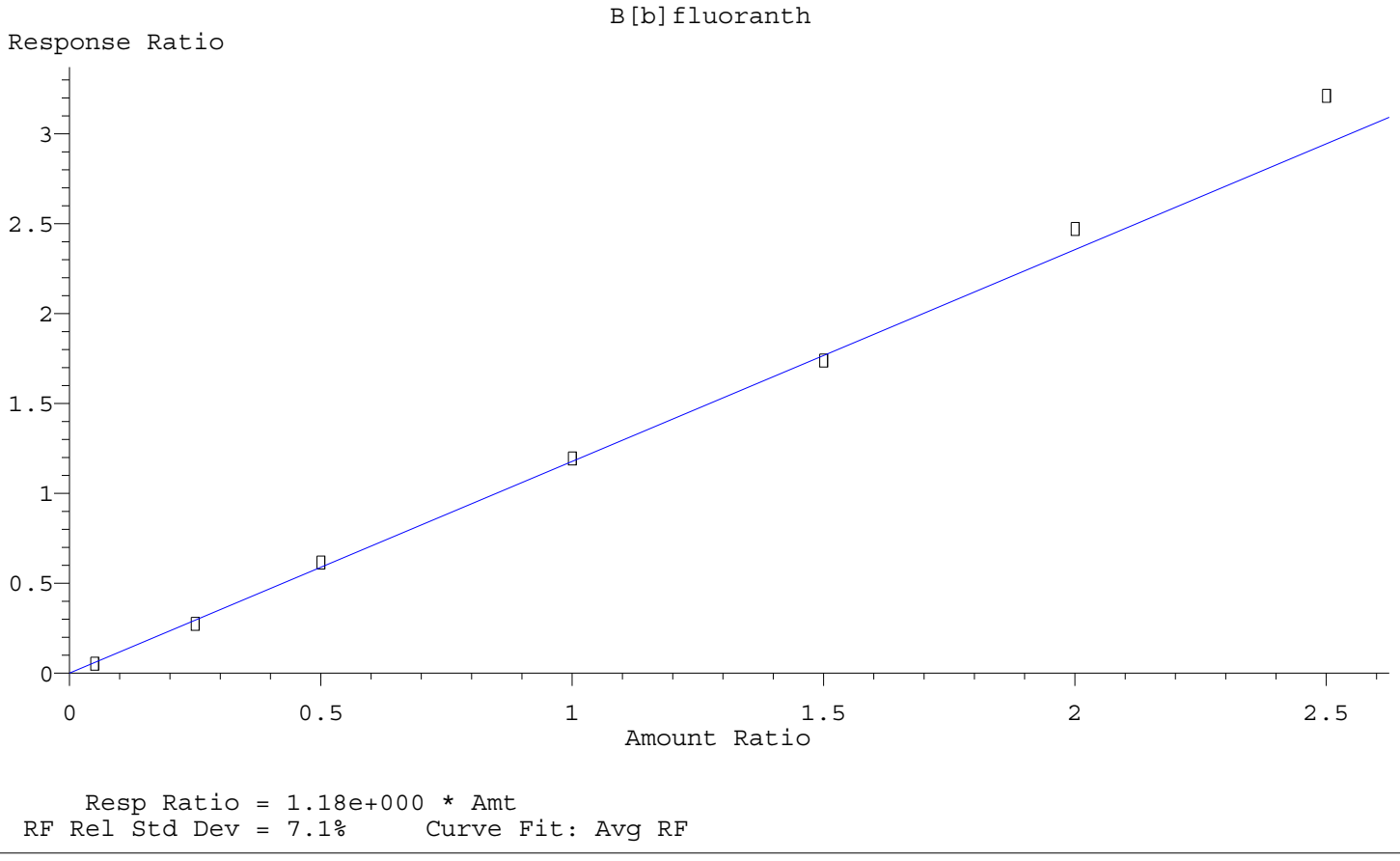
Resp Ratio = 1.07e+000 * Amt
RF Rel Std Dev = 3.1% Curve Fit: Avg RF



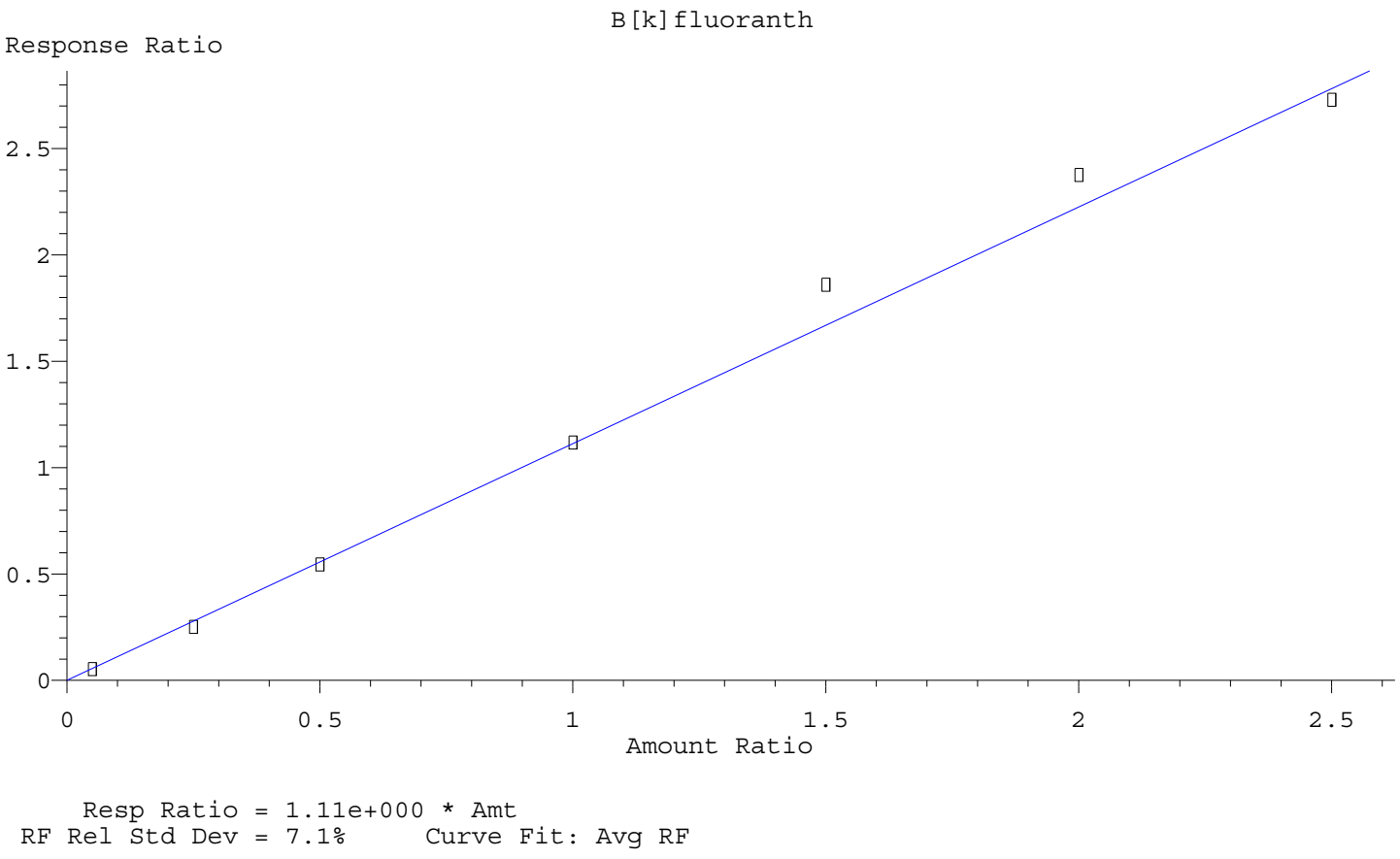
Resp Ratio = 8.43e-001 * Amt
RF Rel Std Dev = 5.8% Curve Fit: Avg RF



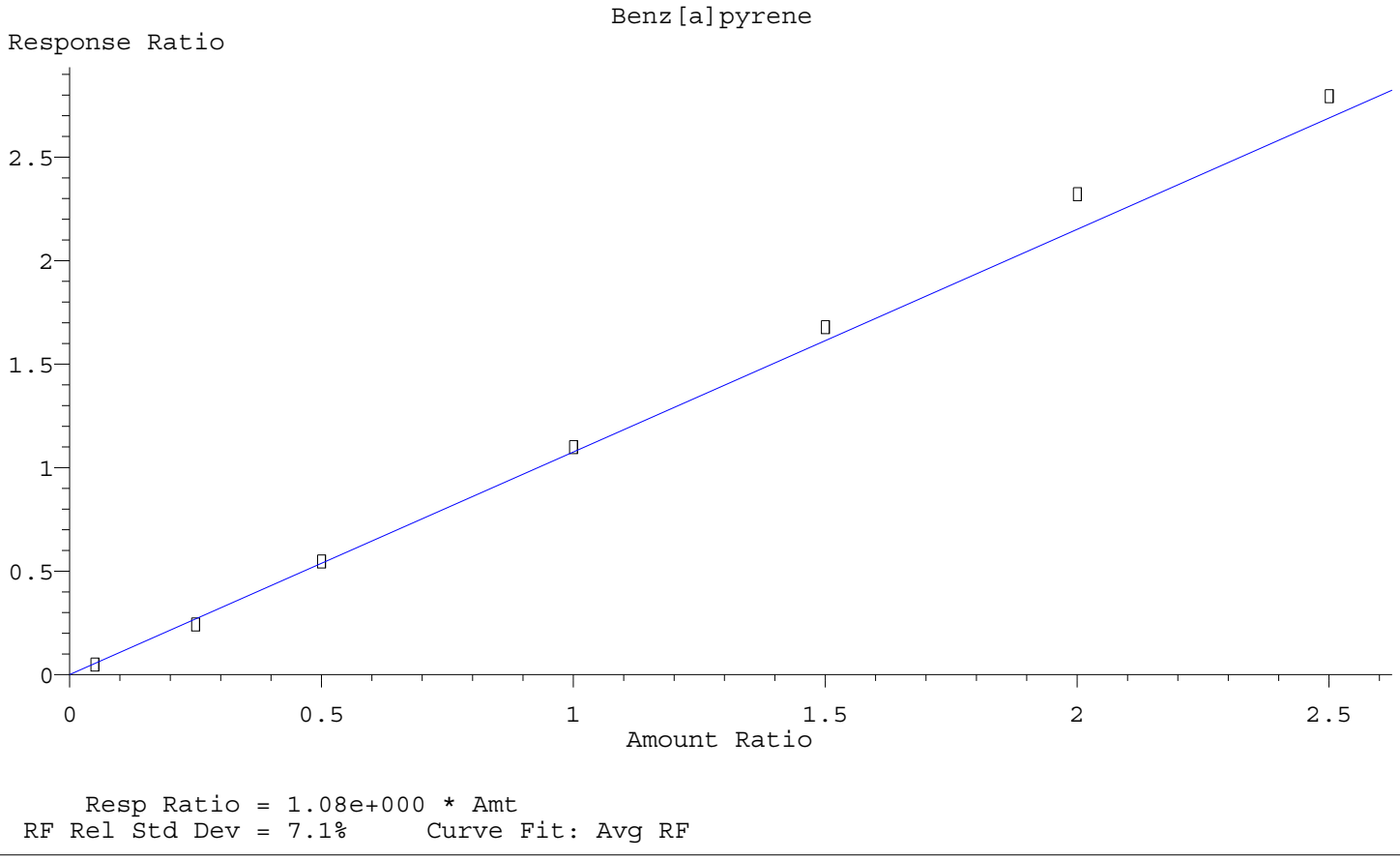
Resp Ratio = 1.50e+000 * Amt
RF Rel Std Dev = 6.6% Curve Fit: Avg RF



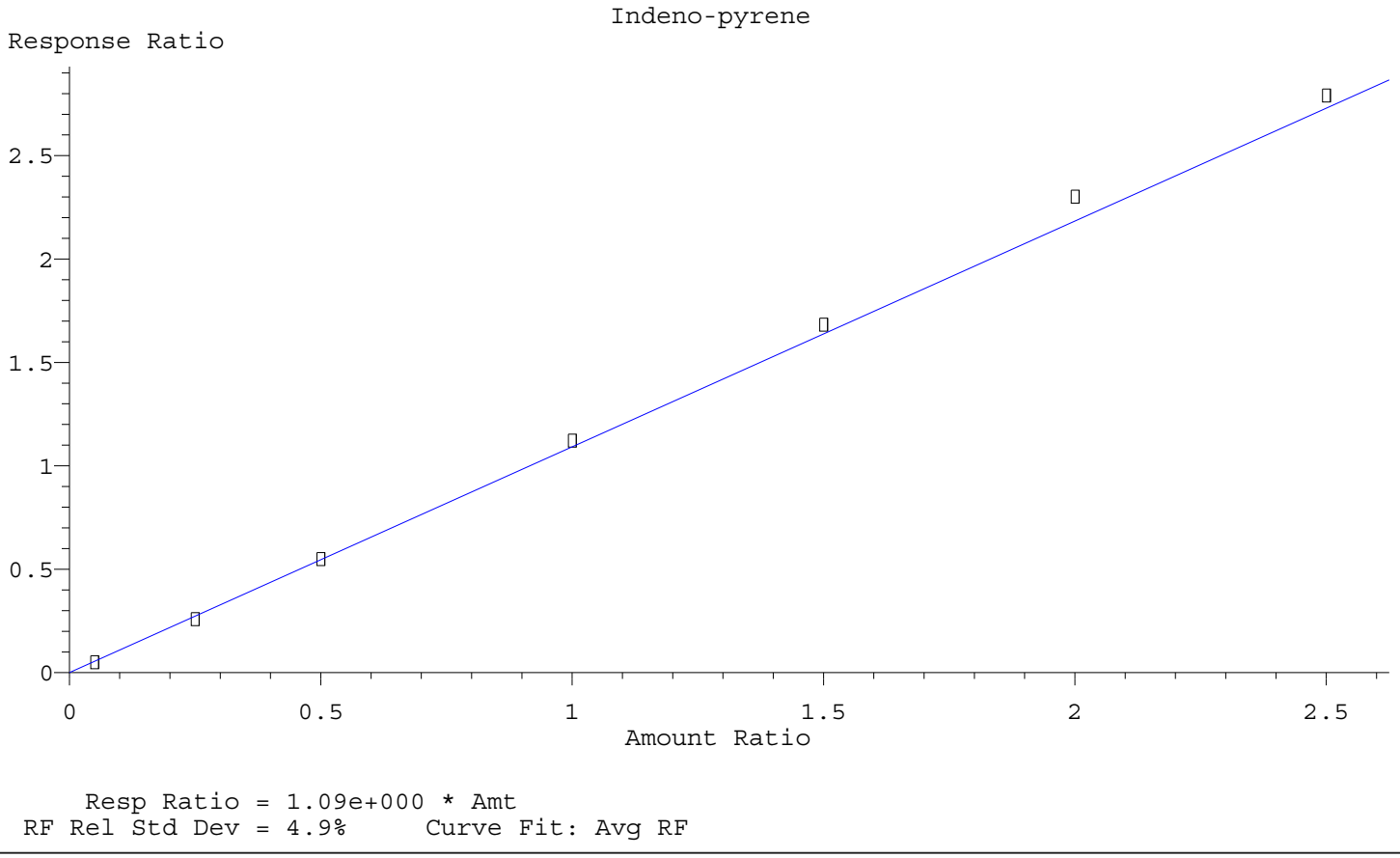
Resp Ratio = 1.18e+000 * Amt
RF Rel Std Dev = 7.1% Curve Fit: Avg RF



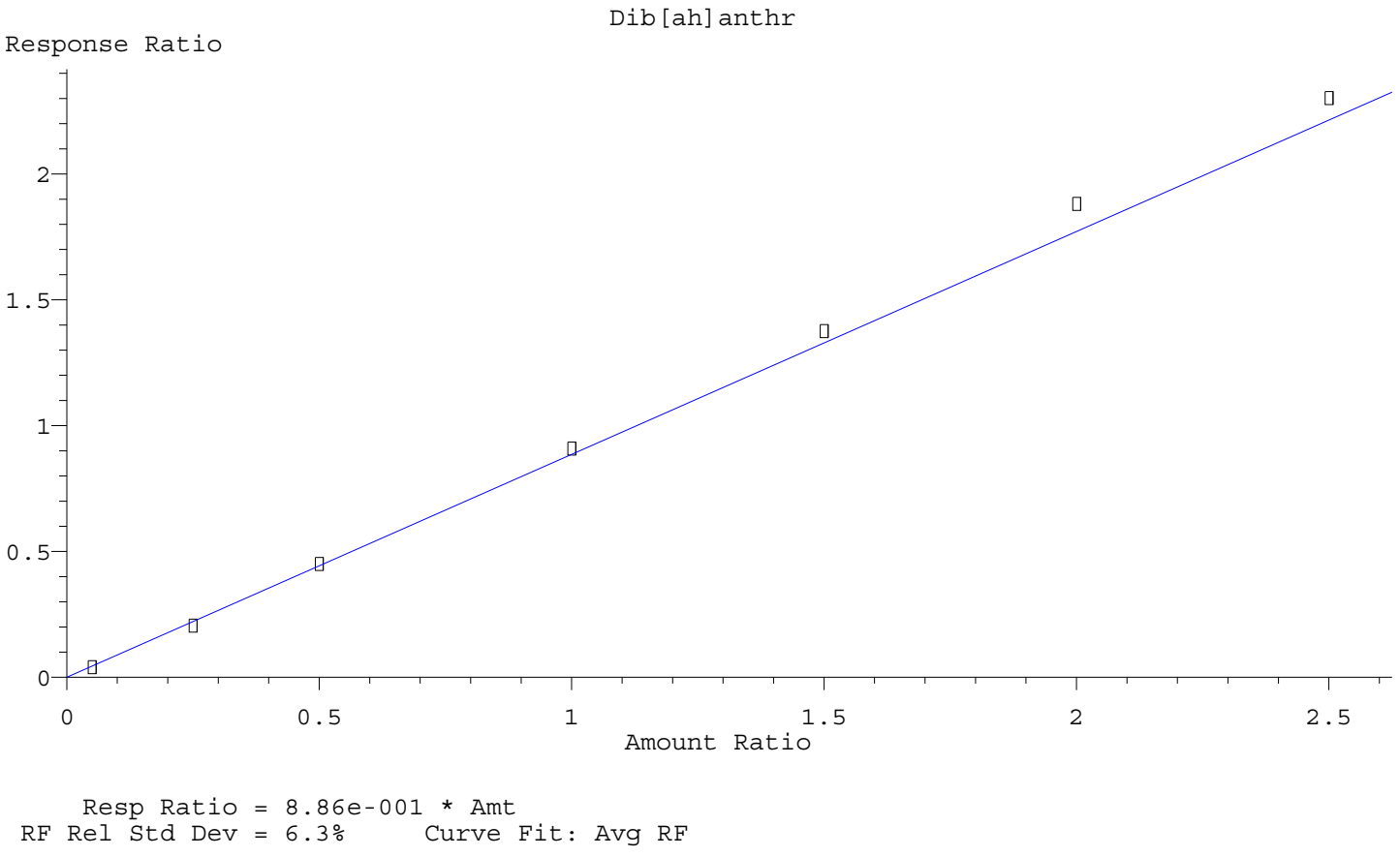
Resp Ratio = 1.11e+000 * Amt
RF Rel Std Dev = 7.1% Curve Fit: Avg RF



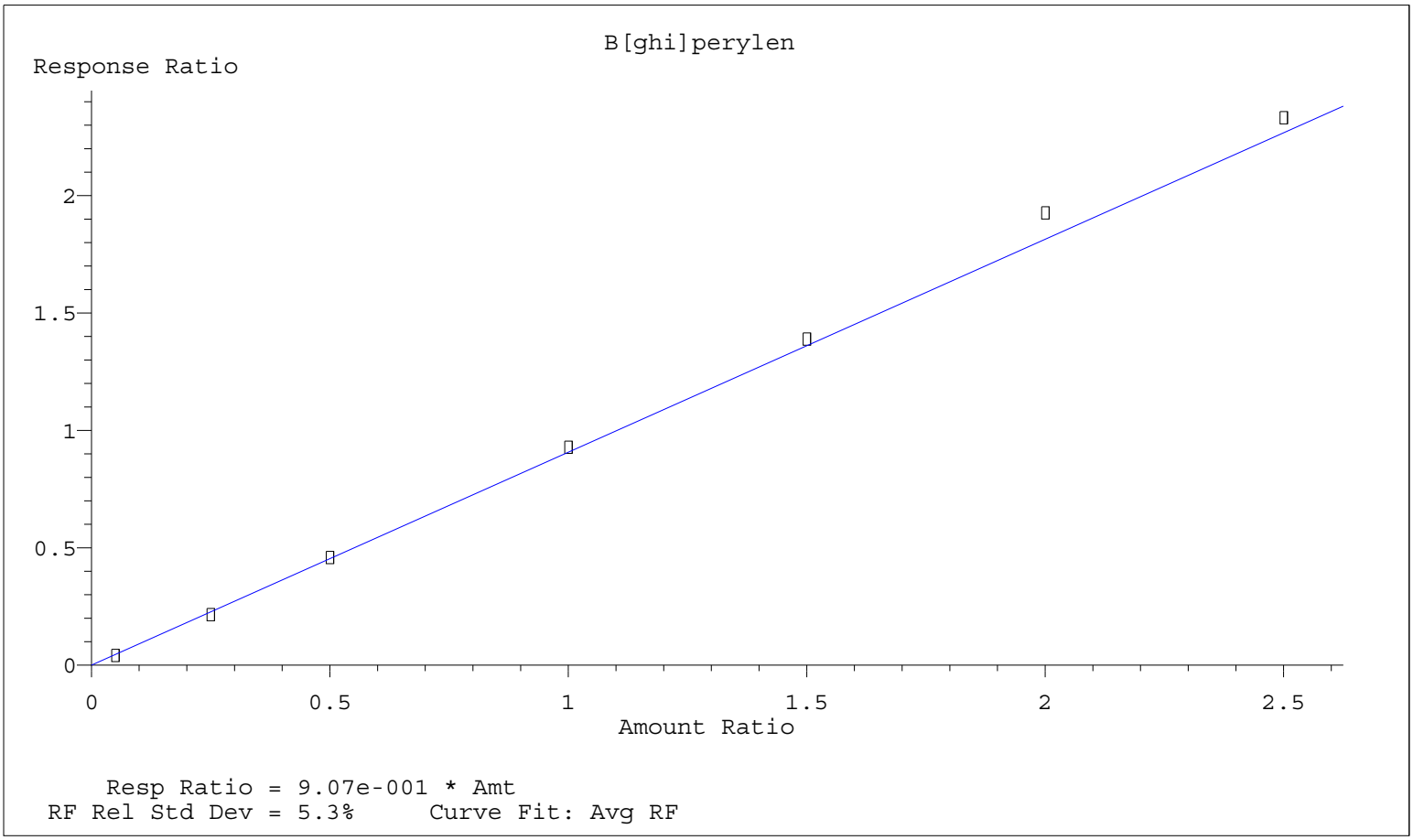
Resp Ratio = 1.08e+000 * Amt
RF Rel Std Dev = 7.1% Curve Fit: Avg RF



Resp Ratio = 1.09e+000 * Amt
RF Rel Std Dev = 4.9% Curve Fit: Avg RF



Resp Ratio = 8.86e-001 * Amt
RF Rel Std Dev = 6.3% Curve Fit: Avg RF


B[ghi]perylen
Response Ratio
2
1.5
1
0.5
0
0
0.5
1
1.5
2
2.5
Amount Ratio
Resp Ratio = 9.07e-001 * Amt
RF Rel Std Dev = 5.3%
Curve Fit: Avg RF

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2IB01.D Vial: 99
Acq On : 2 Dec 2010 11:26 Operator: RPN
Sample : INSTRUMENT BLANK Inst : SVMS2
Misc : 500uL+5uL IS S2263A Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 18:11:28 2010

RPN
12/02/10

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 14:33:20 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

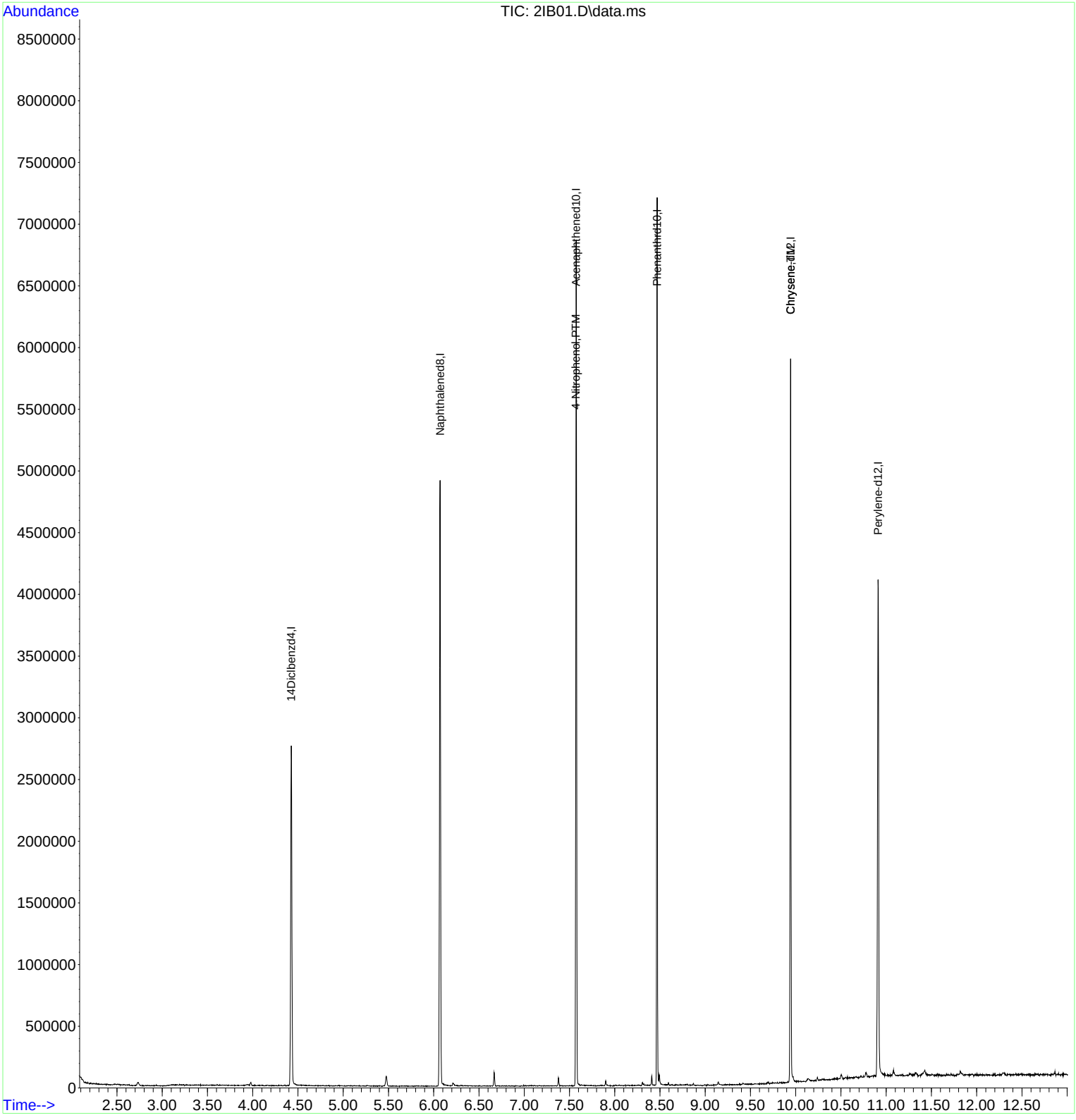
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.425	152	494712	20.00	ug/mL	0.00
21) Naphthalened8	6.071	136	2246218	20.00	ug/mL	0.00
39) Acenaphthened10	7.574	164	1161788	20.00	ug/mL	0.00
63) Phenanthrd10	8.469	188	1740088	20.00	ug/mL	0.00
75) Chrysene-d12	9.944	240	1579809	20.00	ug/mL	0.00
85) Perylene-d12	10.910	264	1442980	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	0.000	112	0	0.00	%REC	
Spiked Amount 100.000	Range 20 - 110		Recovery =	0.00%#		
7) SURRPhenol-d5	0.000	99	0	0.00	%REC	
Spiked Amount 100.000	Range 10 - 115		Recovery =	0.00%#		
22) SURRNitrbenzened5	0.000	82	0	0.00	%REC	
Spiked Amount 100.000	Range 40 - 110		Recovery =	0.00%#		
44) SURR2Flbiphenyl	0.000	172	0	0.00	%REC	
Spiked Amount 100.000	Range 50 - 110		Recovery =	0.00%#		
62) SURR246Tribrphenl	0.000	330	0	0.00	%REC	
Spiked Amount 100.000	Range 40 - 125		Recovery =	0.00%#		
78) SURRTerphenyl-d14	0.000	244	0	0.00	ug/mL	
Spiked Amount 100.000	Range 50 - 135		Recovery =	0.00%#		
Target Compounds						Qvalue
55) 4-Nitrophenol	7.571	109	1536	0.2625	ug/mL#	1
76) Benzidine	9.145	184	4974	Below Cal		89
82) Chrysene	9.944	228	3879	0.0461	ug/mL	76

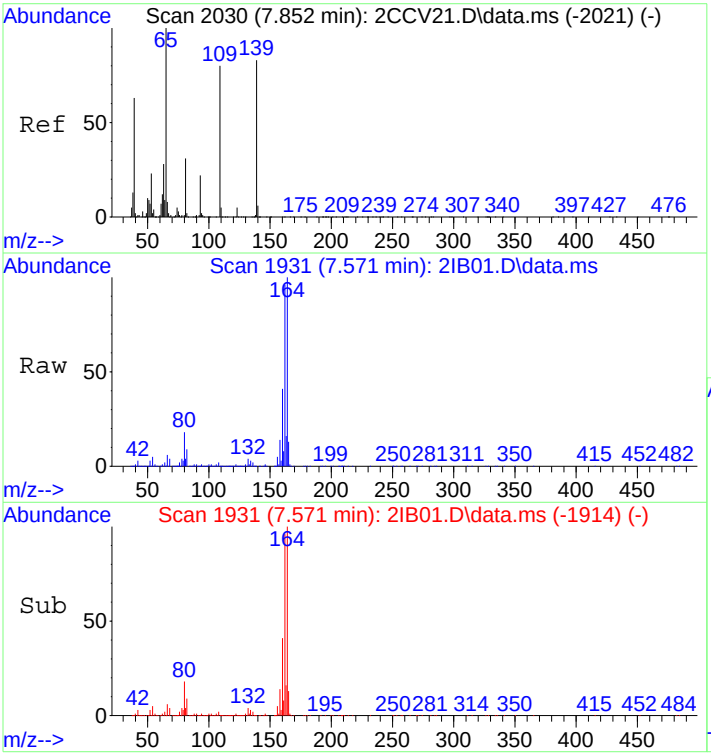
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2IB01.D Vial: 99
Acq On : 2 Dec 2010 11:26 Operator: RPN
Sample : INSTRUMENT BLANK Inst : SVMS2
Misc : 500uL+5uL IS S2263A Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 18:11:28 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 14:33:20 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

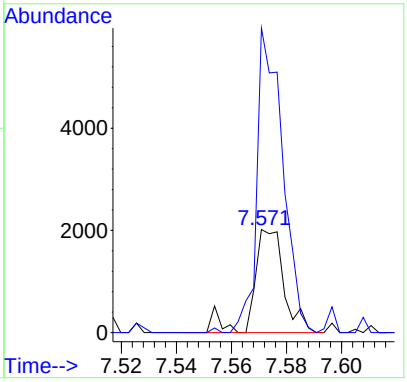


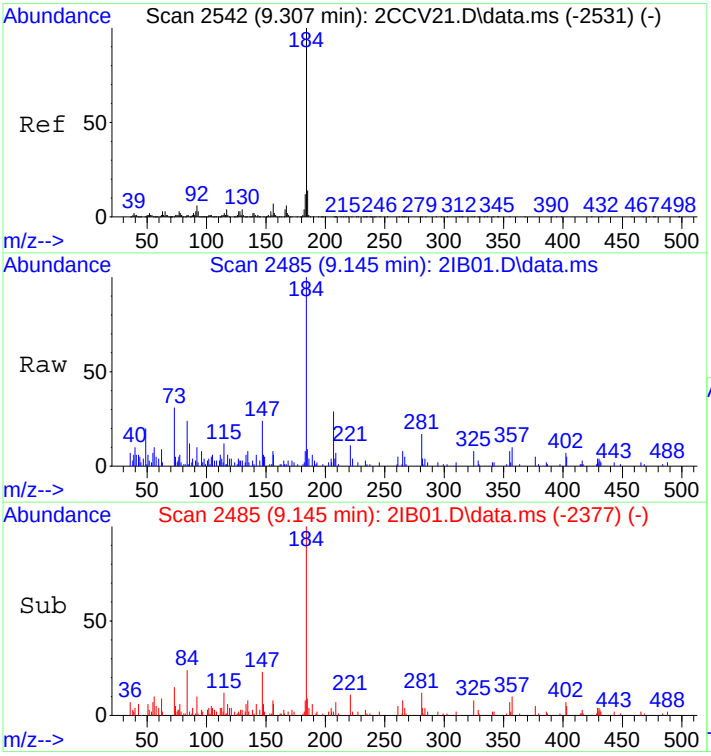


#55
4-Nitrophenol
Concen: 0.26 ug/mL
RT: 7.571 min Scan# 1931
Delta R.T. -0.097 min
Lab File: 2IB01.D
Acq: 2 Dec 10 11:26 am

Tgt Ion:109 Resp: 1536

Ion	Ratio	Lower	Upper
109	100		
65	295.4	123.5	183.5#

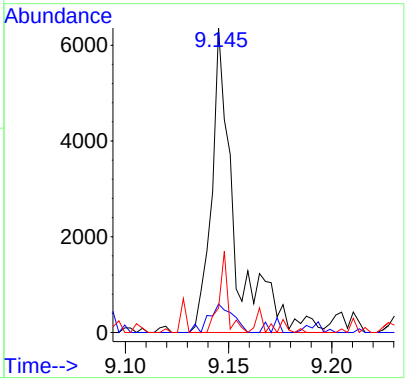


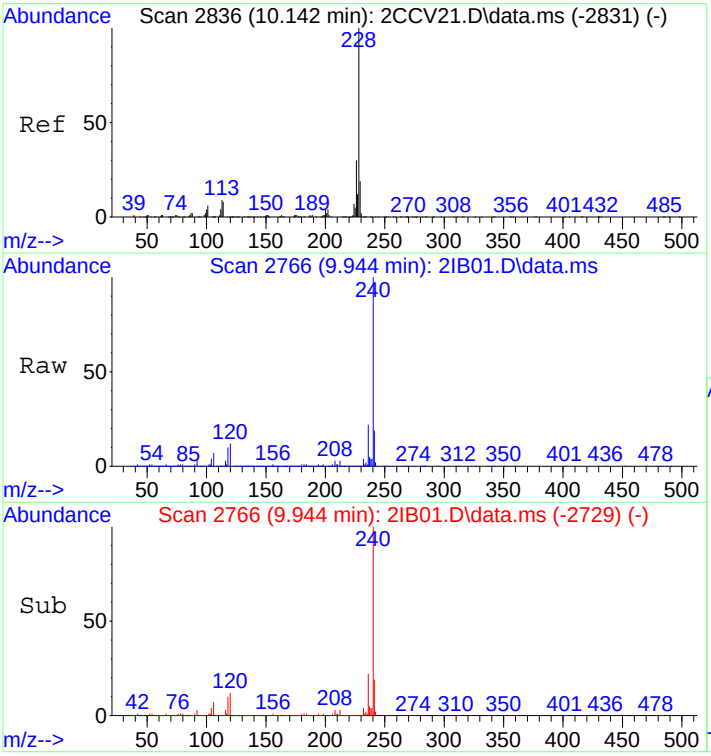


#76
Benzidine
Concen: Below ug/mL
RT: 9.145 min Scan# 2485
Delta R.T. 0.006 min
Lab File: 2IB01.D
Acq: 2 Dec 10 11:26 am

Tgt Ion:184 Resp: 4974

Ion	Ratio	Lower	Upper
184	100		
185	9.3	0.0	43.8
183	8.0	0.0	41.8

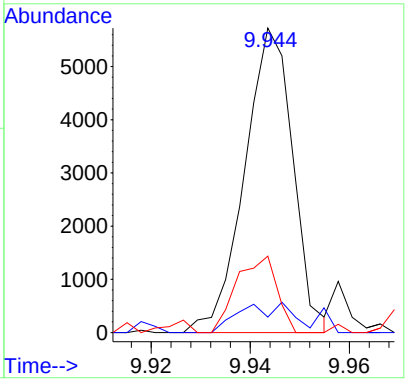




#82
Chrysene
Concen: 0.05 ug/mL
RT: 9.944 min Scan# 2766
Delta R.T. -0.011 min
Lab File: 2IB01.D
Acq: 2 Dec 10 11:26 am

Tgt Ion:228 Resp: 3879

Ion	Ratio	Lower	Upper
228	100		
226	11.8	0.0	58.6
229	25.1	0.0	49.6



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICAL1.D Vial: 8
Acq On : 2 Dec 2010 13:49 Operator: RPN
Sample : ICAL 1 1ug/ml SVMS4679 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 14:29:45 2010

RPN
12/02/10

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 14:29:41 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.425	152	448295	20.00	ug/mL	0.00
21) Naphthalened8	6.068	136	2055608	20.00	ug/mL	0.00
39) Acenaphthened10	7.571	164	1068707	20.00	ug/mL	0.00
63) Phenanthrd10	8.466	188	1606585	20.00	ug/mL	0.00
75) Chrysene-d12	9.932	240	1446793	20.00	ug/mL	0.00
85) Perylene-d12	10.901	264	1321324	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	3.161	112	25309	2.28	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery = 2.28%#			
7) SURRPhenol-d5	3.988	99	30958	2.31	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 2.31%#			
22) SURRNitrbenzened5	5.119	82	21081	4.20	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 4.20%#			
44) SURR2Flbiphenyl	7.085	172	67225	4.82	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 4.82%#			
62) SURR246Tribrphenl	8.085	330	6680	2.11	%REC	-0.01
Spiked Amount 100.000	Range 40 - 125		Recovery = 2.11%#			
78) SURRTerphenyl-d14	9.273	244	51023	4.87	ug/mL	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 4.87%#			
Target Compounds						Qvalue
2) Ntrsdimeth	2.377	74	14990	0.9470	ug/mL	81
3) Pyridine	2.428	79	25977	0.9247	ug/mL	98
5) Aniline	4.056	93	40738	0.9434	ug/mL	91
6) bis2Clethletr	4.121	93	25599	0.9438	ug/mL	91
8) Phenol	4.002	94	29820	0.8966	ug/mL	79
9) 2-Cl-phenol	4.178	128	29697	0.9971	ug/mL	98
10) 13Diclbenz	4.360	146	34222	0.9785	ug/mL	90
11) 14Diclbenz	4.442	146	36269	1.0383	ug/mL	87
12) 12Diclbenz	4.624	146	33134	0.9944	ug/mL	97
13) Benzyl alcoho	4.593	108	4245	1.0136	ug/mL#	34
14) bis2clispreth	4.755	45	51314	1.0050	ug/mL	100
15) 2Methylphenol	4.718	108	24119	0.9479	ug/mL	82
16) Ntrspyrrol	4.894	100	11153	0.8369	ug/mL	78
17) Acetophenone	4.923	105	36692	0.9702	ug/mL	84
18) Hexaclethane	5.045	117	11984	1.0209	ug/mL#	73
19) N-Ntrsdinprop	4.925	70	15940	0.9374	ug/mL	97
20) 3&4Methylphenol	4.920	108	21133	0.8199	ug/mL	91
23) Nitrobenzene	5.147	77	23019	0.8969	ug/mL	83
24) Isophorone	5.502	82	49476	0.8860	ug/mL	93
25) 2-Nitrophenol	5.607	139	15546	0.8159	ug/mL	67
26) 24Dimthpheno	5.678	107	27412	0.9606	ug/mL	86
27) bis2clethoxym	5.812	93	38866	1.0164	ug/mL	77
28) 24Diclphenol	5.906	162	21868	0.8145	ug/mL	91
29) 124Triclbenz	6.005	180	33692	1.0304	ug/mL	83
30) Benzoic acid	5.764	105	417	2.9411	ug/mL#	20
31) Naphthalene	6.088	128	103015	0.9802	ug/mL	98
32) 4-Cl-aniline	6.167	127	36373	0.9436	ug/mL	82
33) 26Diclphenol	6.164	162	21883	0.9055	ug/mL	94
34) Hexaclprop	6.187	213	14831	0.8789	ug/mL	85
35) Hexaclbutdien	6.232	225	15578	1.0165	ug/mL	92
36) 4Cl3methylphe	6.662	107	22003	0.8675	ug/mL	95
37) 2Methylnaphth	6.775	141	57929	0.9938	ug/mL	96
38) 1Methylnaphth	6.858	141	58401	0.9593	ug/mL	83
40) Hxclcycpentdi	6.909	237	11547	0.6450	ug/mL	86

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICAL1.D Vial: 8
Acq On : 2 Dec 2010 13:49 Operator: RPN
Sample : ICAL 1 1ug/ml SVMS4679 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 14:29:45 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 14:29:41 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

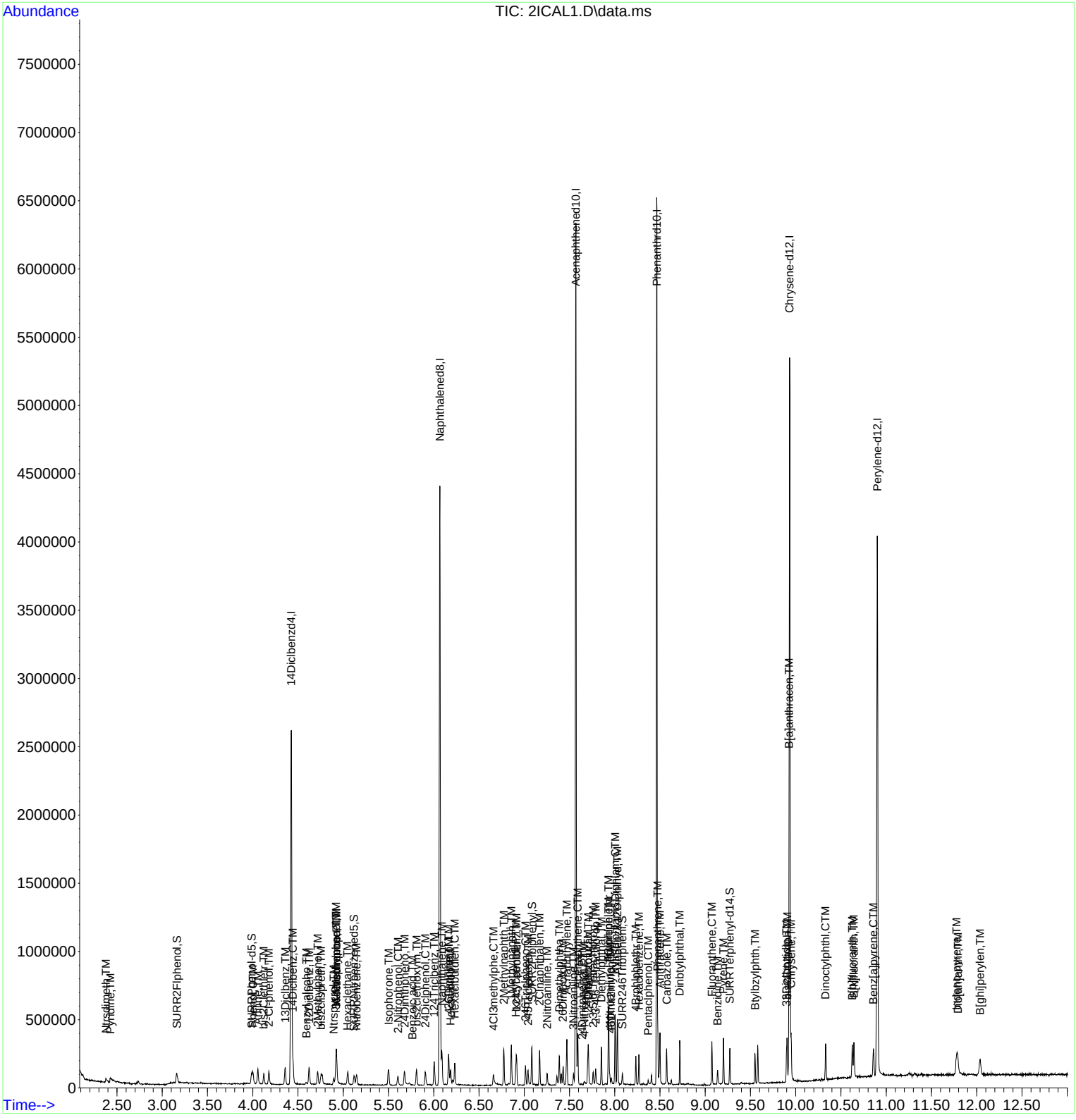
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	6.914	216	28271	1.0008 ug/mL	96
42) 246Triclpheno	7.014	196	15849	0.8543 ug/mL	89
43) 245Triclpheno	7.042	196	17743	0.9088 ug/mL	79
45) 2Clnaphthalen	7.170	162	59618	0.9691 ug/mL	95
46) 2Nitroaniline	7.253	65	12301	0.8279 ug/mL	80
47) Acnaphthylene	7.471	152	106313	1.0118 ug/mL	99
48) Dimethylphtha	7.389	163	69007	0.9577 ug/mL	97
49) 26Dinitrotolu	7.429	165	13395	0.8642 ug/mL	84
50) Acenaphthene	7.591	153	66868	1.0120 ug/mL	99
51) 3Nitroaniline	7.542	138	14708	0.8879 ug/mL	86
52) 24Dinitphenol	7.639	184	1312	2.5005 ug/mL#	58
53) Dibenzofuran	7.707	168	89547	1.0417 ug/mL	91
54) 24Dinitrotolu	7.702	165	16524	0.8685 ug/mL	81
55) 4-Nitrophenol	7.665	109	2440	0.4533 ug/mL#	58
56) 2,3,5,6-Tetrachlorop	7.761	232	9098	0.6019 ug/mL	95
57) 2,3,4,6-Tetrachlorop	7.790	232	10178	0.6440 ug/mL	96
58) Fluorene	7.932	166	76361	1.1102 ug/mL	99
59) 4Clphlphlethr	7.932	204	31811	1.0327 ug/mL	90
60) Diethylphthal	7.852	149	69622	0.9515 ug/mL	98
61) 4Nitroaniline	7.946	138	15474	0.9583 ug/mL#	63
64) 46Dinit2mylph	7.960	198	5080	1.8100 ug/mL#	68
65) Ntrsdiphlam&Diphlam	8.006	169	94778	1.9962 ug/mL	95
66) Azobenz&12Diphlhyd	8.031	182	35430	1.9755 ug/mL#	70
67) 4Brphlphlethr	8.233	248	16202	0.9387 ug/mL	89
68) Hexaclbenzene	8.267	284	17412	0.9713 ug/mL	95
69) Pentaclphenol	8.369	266	1804	2.5978 ug/mL#	38
70) Phenanthrene	8.474	178	84303	0.9877 ug/mL	97
71) Anthracene	8.500	178	83866	0.9665 ug/mL	96
72) Carbazole	8.574	167	72579	0.9902 ug/mL	99
73) Dinbtylphthal	8.719	149	90576	0.9095 ug/mL	97
74) Fluoranthene	9.074	202	79632	0.9216 ug/mL	96
76) Benzidine	9.136	184	31903	1.0114 ug/mL	97
77) Pyrene	9.202	202	84081	0.9714 ug/mL	97
79) Btylbzylphth	9.551	149	36584	0.8678 ug/mL	84
80) 33Diclbnzidin	9.898	252	24541	0.9779 ug/mL	96
81) B[a]anthracen	9.926	228	79589	0.9904 ug/mL	96
82) Chrysene	9.949	228	74786	0.9735 ug/mL	96
83) bis2Ethlhxlph	9.906	149	54284	0.8845 ug/mL	92
84) Dinoctylphthl	10.330	149	94261	0.8726 ug/mL	98
86) B[b]fluoranth	10.625	252	69119	0.8866 ug/mL	92
87) B[k]fluoranth	10.642	252	69829	0.9444 ug/mL	97
88) Benz[a]pyrene	10.858	252	63906	0.8871 ug/mL	96
89) Indeno-pyrene	11.776	276	66233	0.9104 ug/mL	95
90) Dib[ah]anthr	11.793	278	52532	0.8890 ug/mL	87
91) B[ghi]perylen	12.038	276	54314	0.8926 ug/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICAL1.D Vial: 8
Acq On : 2 Dec 2010 13:49 Operator: RPN
Sample : ICAL 1 1ug/ml SVMS4679 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 14:29:45 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 14:29:41 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICAL2.D Vial: 7
Acq On : 2 Dec 2010 13:29 Operator: RPN
Sample : ICAL 2 5ug/ml SVMS4680 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 13:49:10 2010

RPN 12/02/10

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 13:49:06 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.425	152	489533	20.00	ug/mL	0.00
21) Naphthalened8	6.071	136	2207656	20.00	ug/mL	0.00
39) Acenaphthened10	7.579	164	1150827	20.00	ug/mL	0.00
63) Phenanthrd10	8.469	188	1722597	20.00	ug/mL	0.00
75) Chrysene-d12	9.946	240	1591263	20.00	ug/mL	0.00
85) Perylene-d12	10.910	264	1443607	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	3.158	112	143643	11.83	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery = 11.83%#			
7) SURRPhenol-d5	3.991	99	178192	12.17	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 12.17%			
22) SURRNitrbenzened5	5.122	82	129003	23.74	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 23.74%#			
44) SURR2Flbiphenyl	7.091	172	371192	24.81	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 24.81%#			
62) SURR246Tribrphenl	8.094	330	40816	12.27	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 12.27%#			
78) SURRTerphenyl-d14	9.281	244	275108	23.86	ug/mL	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 23.86%#			
Target Compounds						Qvalue
2) Ntrsdimeth	2.371	74	82301	4.7601	ug/mL	74
3) Pyridine	2.394	79	139471	4.5465	ug/mL	98
5) Aniline	4.056	93	220206	4.6418	ug/mL	90
6) bis2Clethletr	4.124	93	143557	4.8288	ug/mL	98
8) Phenol	4.002	94	170117	4.6574	ug/mL	86
9) 2-Cl-phenol	4.181	128	153325	4.7085	ug/mL	98
10) 13Diclbenz	4.357	146	179633	4.6762	ug/mL	98
11) 14Diclbenz	4.445	146	185564	4.8520	ug/mL	89
12) 12Diclbenz	4.624	146	175636	4.8131	ug/mL	92
13) Benzyl alcoho	4.585	108	52212	3.7528	ug/mL#	72
14) bis2clispreth	4.758	45	266194	4.7265	ug/mL	97
15) 2Methylphenol	4.718	108	132374	4.7645	ug/mL	94
16) Ntrspyrrol	4.897	100	70088	4.8464	ug/mL	77
17) Acetophenone	4.923	105	197613	4.7594	ug/mL	85
18) Hexaclethane	5.051	117	60326	4.6550	ug/mL	97
19) N-Ntrsdinprop	4.928	70	87866	4.6915	ug/mL	94
20) 3&4Methylphenol	4.923	108	138855	4.9136	ug/mL	94
23) Nitrobenzene	5.147	77	131498	4.7450	ug/mL	79
24) Isophorone	5.502	82	285266	4.7410	ug/mL	93
25) 2-Nitrophenol	5.607	139	101613	5.0510	ug/mL	77
26) 24Dimthpheno	5.681	107	145086	4.7396	ug/mL	86
27) bis2clethoxym	5.815	93	201046	4.9038	ug/mL	87
28) 24Diclphenol	5.911	162	138951	4.8364	ug/mL	98
29) 124Triclbenz	6.011	180	170211	4.8852	ug/mL	98
30) Benzoic acid	5.764	105	52212	5.1815	ug/mL	84
31) Naphthalene	6.096	128	547302	4.8612	ug/mL	100
32) 4-Cl-aniline	6.170	127	203617	4.9655	ug/mL	91
33) 26Diclphenol	6.170	162	130342	5.0843	ug/mL	97
34) Hexaclprop	6.190	213	85072	4.7287	ug/mL	97
35) Hexaclbutdien	6.238	225	81382	5.0018	ug/mL	95
36) 4Cl3methylphe	6.664	107	129945	4.7703	ug/mL	84
37) 2Methylnaphth	6.781	141	306362	4.9032	ug/mL	97
38) 1Methylnaphth	6.863	141	319803	4.8902	ug/mL	99
40) Hxclcycpentdi	6.914	237	80767	4.1975	ug/mL	96

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICAL2.D Vial: 7
Acq On : 2 Dec 2010 13:29 Operator: RPN
Sample : ICAL 2 5ug/ml SVMS4680 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 13:49:10 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 13:49:06 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

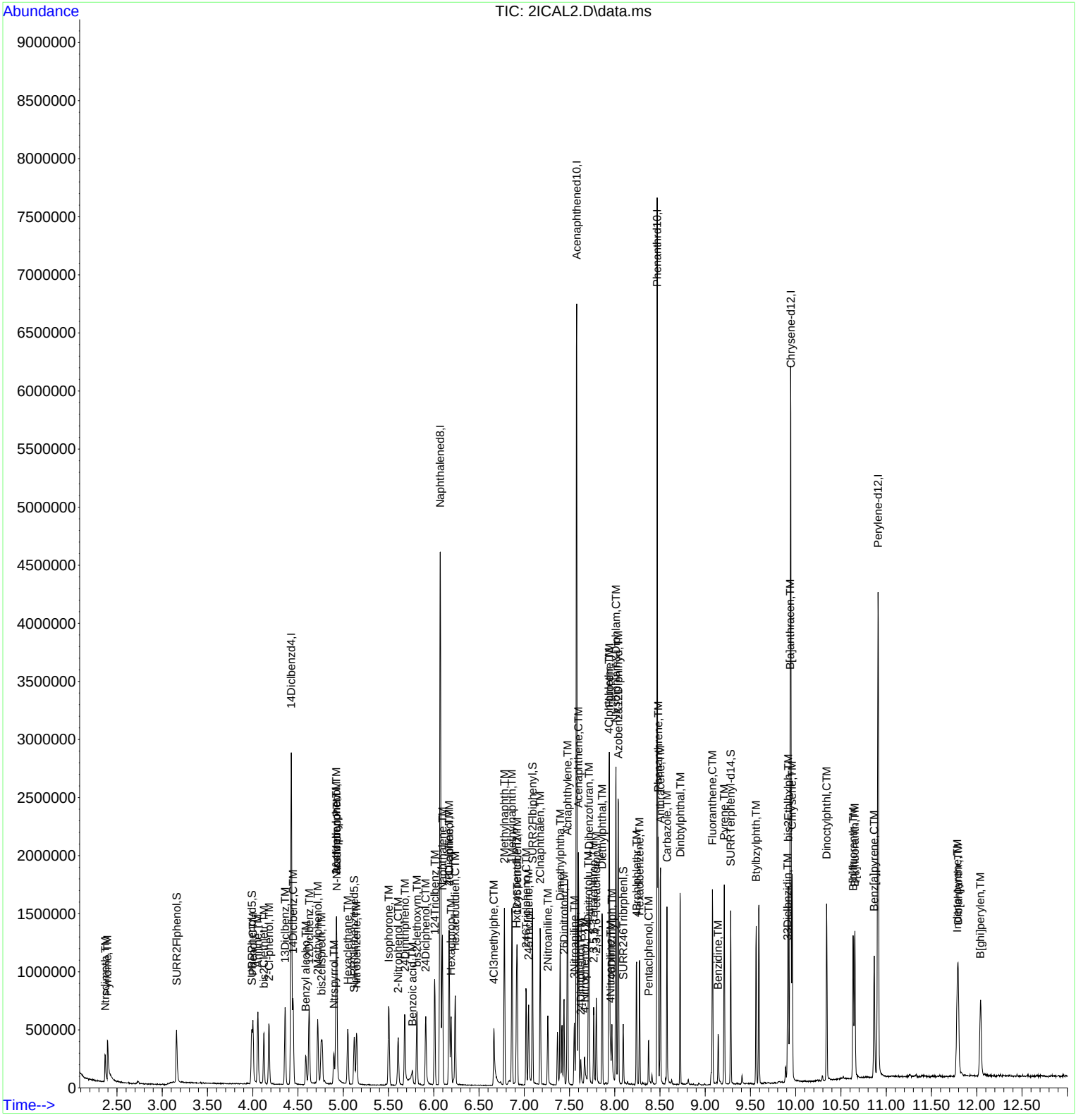
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	6.923	216	149388	4.9661 ug/mL	96
42) 246Triclpheno	7.022	196	96060	4.8545 ug/mL	92
43) 245Triclpheno	7.048	196	98536	4.7234 ug/mL	93
45) 2Clnaphthalen	7.176	162	316659	4.7784 ug/mL	99
46) 2Nitroaniline	7.261	65	74650	4.6686 ug/mL#	79
47) Acnaphthylene	7.480	152	560915	4.9620 ug/mL	97
48) Dimethylphtha	7.398	163	379239	4.9070 ug/mL	99
49) 26Dinitrotolu	7.440	165	84375	5.1127 ug/mL	78
50) Acenaphthene	7.599	153	354420	4.9899 ug/mL	99
51) 3Nitroaniline	7.554	138	89498	5.1103 ug/mL	87
52) 24Dinitphenol	7.625	184	31093	6.5509 ug/mL	77
53) Dibenzofuran	7.716	168	465624	5.0388 ug/mL	95
54) 24Dinitrotolu	7.707	165	105089	5.2014 ug/mL	85
55) 4-Nitrophenol	7.667	109	26308	4.7121 ug/mL#	69
56) 2,3,5,6-Tetrachlorop	7.767	232	69791	4.3304 ug/mL	95
57) 2,3,4,6-Tetrachlorop	7.795	232	76134	4.4991 ug/mL	95
58) Fluorene	7.940	166	379295	5.1218 ug/mL	98
59) 4Clphlphlethr	7.937	204	167868	5.0737 ug/mL	95
60) Diethylphthal	7.861	149	389838	4.9626 ug/mL	98
61) 4Nitroaniline	7.954	138	92904	5.5221 ug/mL#	75
64) 46Dinit2mylph	7.969	198	50343	6.3097 ug/mL	80
65) Ntrsdiphlam&Diphlam	8.014	169	506070	9.9929 ug/mL	99
66) Azobenz&12Diphlhyd	8.040	182	196461	10.2518 ug/mL#	69
67) 4Brphlphlethr	8.241	248	90231	4.9737 ug/mL	87
68) Hexaclbenzene	8.276	284	94700	5.0160 ug/mL	92
69) Pentaclphenol	8.375	266	27715	6.4445 ug/mL	88
70) Phenanthrene	8.480	178	443890	4.8639 ug/mL	98
71) Anthracene	8.506	178	451807	4.8578 ug/mL	99
72) Carbazole	8.577	167	385281	4.9076 ug/mL	98
73) Dinbtylphthal	8.724	149	509586	4.7271 ug/mL	98
74) Fluoranthene	9.080	202	430111	4.6300 ug/mL	98
76) Benzidine	9.142	184	121867	5.2453 ug/mL	94
77) Pyrene	9.210	202	453173	4.7316 ug/mL	95
79) Btylbzylphth	9.563	149	216447	4.6281 ug/mL	87
80) 33Diclbnzidin	9.909	252	101745	5.4200 ug/mL	100
81) B[a]anthracen	9.938	228	422325	4.7632 ug/mL	99
82) Chrysene	9.960	228	401776	4.7651 ug/mL	99
83) bis2Ethlhxlph	9.918	149	323059	4.7439 ug/mL	99
84) Dinoctylphthl	10.341	149	569334	4.7800 ug/mL	98
86) B[b]fluoranth	10.634	252	395960	4.6680 ug/mL	98
87) B[k]fluoranth	10.654	252	362942	4.4450 ug/mL	98
88) Benz[a]pyrene	10.867	252	349881	4.4274 ug/mL	95
89) Indeno-pyrene	11.785	276	372839	4.7105 ug/mL	97
90) Dib[ah]anthr	11.796	278	295585	4.5890 ug/mL	98
91) B[ghi]perylen	12.040	276	310456	4.6898 ug/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICAL2.D Vial: 7
Acq On : 2 Dec 2010 13:29 Operator: RPN
Sample : ICAL 2 5ug/ml SVMS4680 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 13:49:10 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 13:49:06 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICAL3.D Vial: 6
Acq On : 2 Dec 2010 13:08 Operator: RPN
Sample : ICAL 3 10ug/ml SVMS4681 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 13:45:10 2010

RPN
12/02/10

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 13:44:58 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.425	152	450548	20.00	ug/mL	0.00
21) Naphthalened8	6.070	136	2038217	20.00	ug/mL	0.00
39) Acenaphthened10	7.576	164	1074391	20.00	ug/mL	0.00
63) Phenanthrd10	8.468	188	1555926	20.00	ug/mL	0.00
75) Chrysene-d12	9.940	240	1425843	20.00	ug/mL	0.00
85) Perylene-d12	10.906	264	1265987	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	3.158	112	282461	25.19	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery = 25.19%			
7) SURRPhenol-d5	3.990	99	336303	24.82	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 24.82%			
22) SURRNitrbenzened5	5.124	82	255481	50.43	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 50.43%			
44) SURR2Flbiphenyl	7.090	172	729022	52.30	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 52.30%			
62) SURR246Tribrphenl	8.093	330	77711	25.65	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 25.65%#			
78) SURRTerphenyl-d14	9.278	244	526998	51.00	ug/mL	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 51.00%			
Target Compounds						Qvalue
2) Ntrsdimeth	2.371	74	159367	9.9658	ug/mL	85
3) Pyridine	2.396	79	278099	9.7524	ug/mL	95
5) Aniline	4.059	93	438476	9.9291	ug/mL	91
6) bis2Clethletr	4.124	93	268672	9.6973	ug/mL	99
8) Phenol	4.005	94	332622	9.8180	ug/mL	84
9) 2-Cl-phenol	4.181	128	301939	10.0191	ug/mL	98
10) 13Diclbenz	4.360	146	355395	9.9974	ug/mL	96
11) 14Diclbenz	4.445	146	353233	9.9767	ug/mL	96
12) 12Diclbenz	4.624	146	346391	10.3220	ug/mL	99
13) Benzyl alcoho	4.587	108	137186	9.1052	ug/mL#	74
14) bis2clispreth	4.766	45	507867	9.6818	ug/mL	94
15) 2Methylphenol	4.718	108	248354	9.5948	ug/mL	98
16) Ntrspyrrol	4.900	100	133821	9.8906	ug/mL	89
17) Acetophenone	4.925	105	382441	9.9524	ug/mL	84
18) Hexaclethane	5.050	117	115901	9.5884	ug/mL	86
19) N-Ntrsdinprop	4.931	70	173822	9.9802	ug/mL	96
20) 3&4Methylphenol	4.922	108	267603	10.2233	ug/mL	96
23) Nitrobenzene	5.150	77	251400	9.6620	ug/mL	84
24) Isophorone	5.505	82	566034	10.0726	ug/mL	93
25) 2-Nitrophenol	5.607	139	195511	10.4515	ug/mL	79
26) 24Dimthpheno	5.681	107	284917	10.0143	ug/mL	84
27) bis2clethoxym	5.815	93	388383	10.1783	ug/mL	89
28) 24Diclphenol	5.914	162	266873	10.0530	ug/mL	96
29) 124Triclbenz	6.011	180	333690	10.4315	ug/mL	99
30) Benzoic acid	5.783	105	154213	10.3417	ug/mL	83
31) Naphthalene	6.093	128	1065884	10.2535	ug/mL	99
32) 4-Cl-aniline	6.170	127	403017	10.8964	ug/mL	90
33) 26Diclphenol	6.170	162	251201	10.6515	ug/mL	98
34) Hexaclprop	6.192	213	168199	10.2288	ug/mL	99
35) Hexaclbutdien	6.235	225	156317	10.4365	ug/mL	99
36) 4Cl3methylphe	6.664	107	259780	10.2987	ug/mL	83
37) 2Methylnaphth	6.781	141	597862	10.3408	ug/mL	98
38) 1Methylnaphth	6.863	141	632913	10.4608	ug/mL	99
40) Hxclcycpentdi	6.911	237	170876	9.5650	ug/mL	96

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICAL3.D Vial: 6
Acq On : 2 Dec 2010 13:08 Operator: RPN
Sample : ICAL 3 10ug/ml SVMS4681 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 13:45:10 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 13:44:58 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

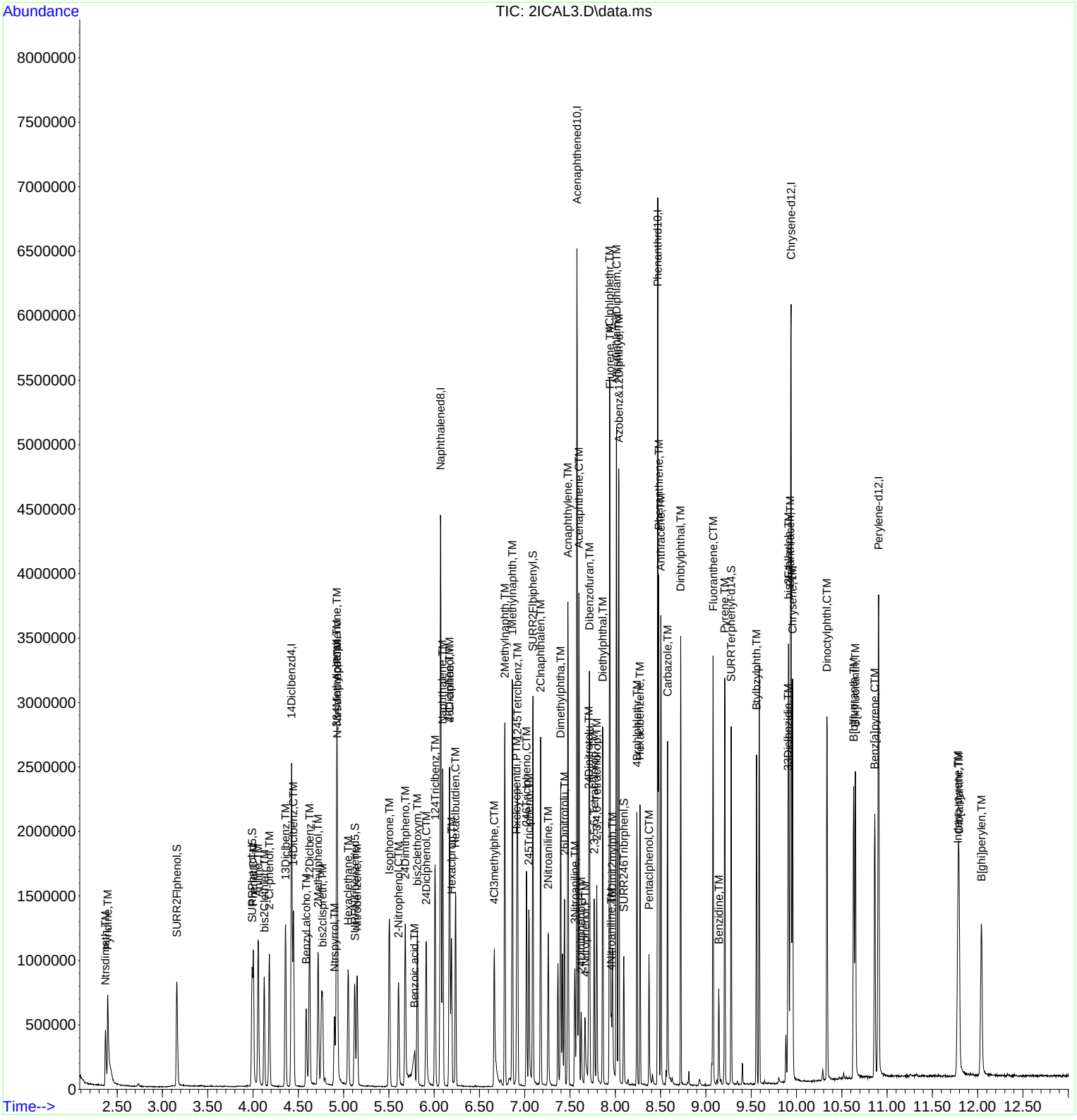
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1245Tetrclbenz	6.920	216	293495	10.5576	ug/mL	97
42) 246Triclpheno	7.019	196	192662	10.5380	ug/mL	88
43) 245Triclpheno	7.045	196	201128	10.3747	ug/mL	94
45) 2Clnaphthalen	7.176	162	641326	10.3958	ug/mL	97
46) 2Nitroaniline	7.258	65	149671	10.0420	ug/mL#	78
47) Acnaphthylene	7.477	152	1117472	10.6201	ug/mL	99
48) Dimethylphtha	7.397	163	754380	10.4626	ug/mL	100
49) 26Dinitrotolu	7.440	165	164839	10.7857	ug/mL	87
50) Acenaphthene	7.599	153	694131	10.4714	ug/mL	100
51) 3Nitroaniline	7.554	138	157471	9.9494	ug/mL	84
52) 24Dinitphenol	7.625	184	78627	11.8405	ug/mL#	69
53) Dibenzofuran	7.715	168	921897	10.7501	ug/mL	93
54) 24Dinitrotolu	7.707	165	208854	11.1985	ug/mL	81
55) 4-Nitrophenol	7.667	109	54817	10.7511	ug/mL	88
56) 2,3,5,6-Tetrachlorop	7.767	232	145431	9.8682	ug/mL	96
57) 2,3,4,6-Tetrachlorop	7.795	232	152909	9.7843	ug/mL	97
58) Fluorene	7.940	166	735158	10.6317	ug/mL	99
59) 4Clphlphlethr	7.937	204	333901	10.8816	ug/mL	95
60) Diethylphthal	7.860	149	769142	10.5501	ug/mL	99
61) 4Nitroaniline	7.954	138	168745	11.1111	ug/mL#	71
64) 46Dinit2mylph	7.968	198	108011	11.6559	ug/mL	94
65) Ntrsdiphlam&Diphlam	8.014	169	979528	21.5026	ug/mL	99
66) Azobenz&12Diphlhyd	8.039	182	374649	21.7304	ug/mL#	69
67) 4Brphlphlethr	8.238	248	176121	10.9346	ug/mL	88
68) Hexaclbenzene	8.272	284	183515	11.0172	ug/mL	98
69) Pentaclphenol	8.372	266	75543	12.5761	ug/mL	93
70) Phenanthrene	8.480	178	854167	10.4041	ug/mL	99
71) Anthracene	8.503	178	860536	10.2525	ug/mL	99
72) Carbazole	8.576	167	732060	10.4306	ug/mL	98
73) Dinbtylphthal	8.721	149	996230	10.1938	ug/mL	98
74) Fluoranthene	9.079	202	839490	10.0371	ug/mL	97
76) Benzidine	9.142	184	204653	10.3688	ug/mL	96
77) Pyrene	9.207	202	857972	9.9350	ug/mL	97
79) Btylbzylphth	9.560	149	433771	10.2749	ug/mL	86
80) 33Diclbnzidin	9.906	252	159008	9.6461	ug/mL	95
81) B[a]anthracen	9.932	228	792506	9.9514	ug/mL	99
82) Chrysene	9.957	228	761899	10.0693	ug/mL	97
83) bis2Ethlhxlph	9.912	149	632982	10.3223	ug/mL	100
84) Dinoctylphthl	10.335	149	1099334	10.3116	ug/mL	99
86) B[b]fluoranth	10.631	252	778743	10.5746	ug/mL	98
87) B[k]fluoranth	10.651	252	689880	9.4885	ug/mL	99
88) Benz[a]pyrene	10.864	252	692356	9.9733	ug/mL	98
89) Indeno-pyrene	11.782	276	694525	10.0003	ug/mL	91
90) Dib[ah]anthr	11.796	278	569749	10.1291	ug/mL	98
91) B[ghi]perylen	12.043	276	580245	10.0065	ug/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICAL3.D Vial: 6
Acq On : 2 Dec 2010 13:08 Operator: RPN
Sample : ICAL 3 10ug/ml SVMS4681 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 13:45:10 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 13:44:58 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICAL4.D Vial: 5
Acq On : 2 Dec 2010 12:48 Operator: RPN
Sample : ICAL 4 20ug/ml SVMS4682 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 13:28:00 2010

RPN 12/02/10

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 10:22:51 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.428	152	480653	20.00	ug/mL	0.00
21) Naphthalened8	6.073	136	2199649	20.00	ug/mL	0.00
39) Acenaphthened10	7.576	164	1168924	20.00	ug/mL	0.00
63) Phenanthrd10	8.469	188	1716493	20.00	ug/mL	0.00
75) Chrysene-d12	9.938	240	1597155	20.00	ug/mL	0.00
85) Perylene-d12	10.904	264	1415096	20.00	ug/mL	-0.01
System Monitoring Compounds						
4) SURR2Flphenol	3.161	112	611397	51.10	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery = 51.10%			
7) SURRPhenol-d5	3.993	99	724927	49.25	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 49.25%			
22) SURRNitrbenzened5	5.127	82	543214	94.13	%REC	-0.02
Spiked Amount 100.000	Range 40 - 110		Recovery = 94.13%			
44) SURR2Flbiphenyl	7.091	172	1555863	100.67	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 100.67%			
62) SURR246Tribrphenl	8.096	330	187012	64.69	%REC	0.01
Spiked Amount 100.000	Range 40 - 125		Recovery = 64.69%			
78) SURRTerphenyl-d14	9.276	244	1160722	97.10	ug/mL	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 97.10%			
Target Compounds						Qvalue
2) Ntrsdimeth	2.371	74	346431	20.0004	ug/mL	81
3) Pyridine	2.394	79	623245	20.3623	ug/mL	94
5) Aniline	4.059	93	943285	19.3742	ug/mL	89
6) bis2Clethletr	4.127	93	583196	19.2696	ug/mL	100
8) Phenol	4.008	94	727940	19.7507	ug/mL	85
9) 2-Cl-phenol	4.184	128	644091	19.9211	ug/mL	99
10) 13Diclbenz	4.360	146	748328	19.7056	ug/mL	98
11) 14Diclbenz	4.448	146	759415	20.0353	ug/mL	96
12) 12Diclbenz	4.624	146	715987	19.9134	ug/mL	95
13) Benzyl alcoho	4.590	108	338941	19.1553	ug/mL#	75
14) bis2clispreth	4.766	45	1089745	18.7603	ug/mL	96
15) 2Methylphenol	4.724	108	547222	19.4281	ug/mL	96
16) Ntrspyrrol	4.908	100	302820	20.7547	ug/mL	80
17) Acetophenone	4.931	105	817739	19.5176	ug/mL	84
18) Hexaclethane	5.050	117	257615	19.6340	ug/mL	95
19) N-Ntrsdinprop	4.937	70	364547	18.9037	ug/mL	93
20) 3&4Methylphenol	4.931	108	555956	19.5252	ug/mL	98
23) Nitrobenzene	5.156	77	560065	18.8315	ug/mL	82
24) Isophorone	5.511	82	1218273	19.3528	ug/mL	92
25) 2-Nitrophenol	5.610	139	419986	21.2983	ug/mL	77
26) 24Dimthpheno	5.684	107	631385	20.4097	ug/mL	84
27) bis2clethoxym	5.818	93	828981	19.7017	ug/mL	89
28) 24Diclphenol	5.914	162	596586	21.0136	ug/mL	99
29) 124Triclbenz	6.011	180	720278	21.0822	ug/mL	94
30) Benzoic acid	5.820	105	405254	23.1507	ug/mL	89
31) Naphthalene	6.096	128	2271234	20.0253	ug/mL	100
32) 4-Cl-aniline	6.173	127	867223	22.7153	ug/mL	92
33) 26Diclphenol	6.173	162	548490	21.4833	ug/mL	94
34) Hexaclprop	6.193	213	384499	22.2855	ug/mL	98
35) Hexaclbutdien	6.238	225	337564	21.2189	ug/mL	95
36) 4Cl3methylphe	6.664	107	575530	21.1627	ug/mL	87
37) 2Methylnaphth	6.781	141	1286576	20.3325	ug/mL	100
38) 1Methylnaphth	6.866	141	1335454	20.1221	ug/mL	98
40) Hxclcycpentdi	6.914	237	386976	20.1805	ug/mL	95

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICAL4.D Vial: 5
Acq On : 2 Dec 2010 12:48 Operator: RPN
Sample : ICAL 4 20ug/ml SVMS4682 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 13:28:00 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 10:22:51 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

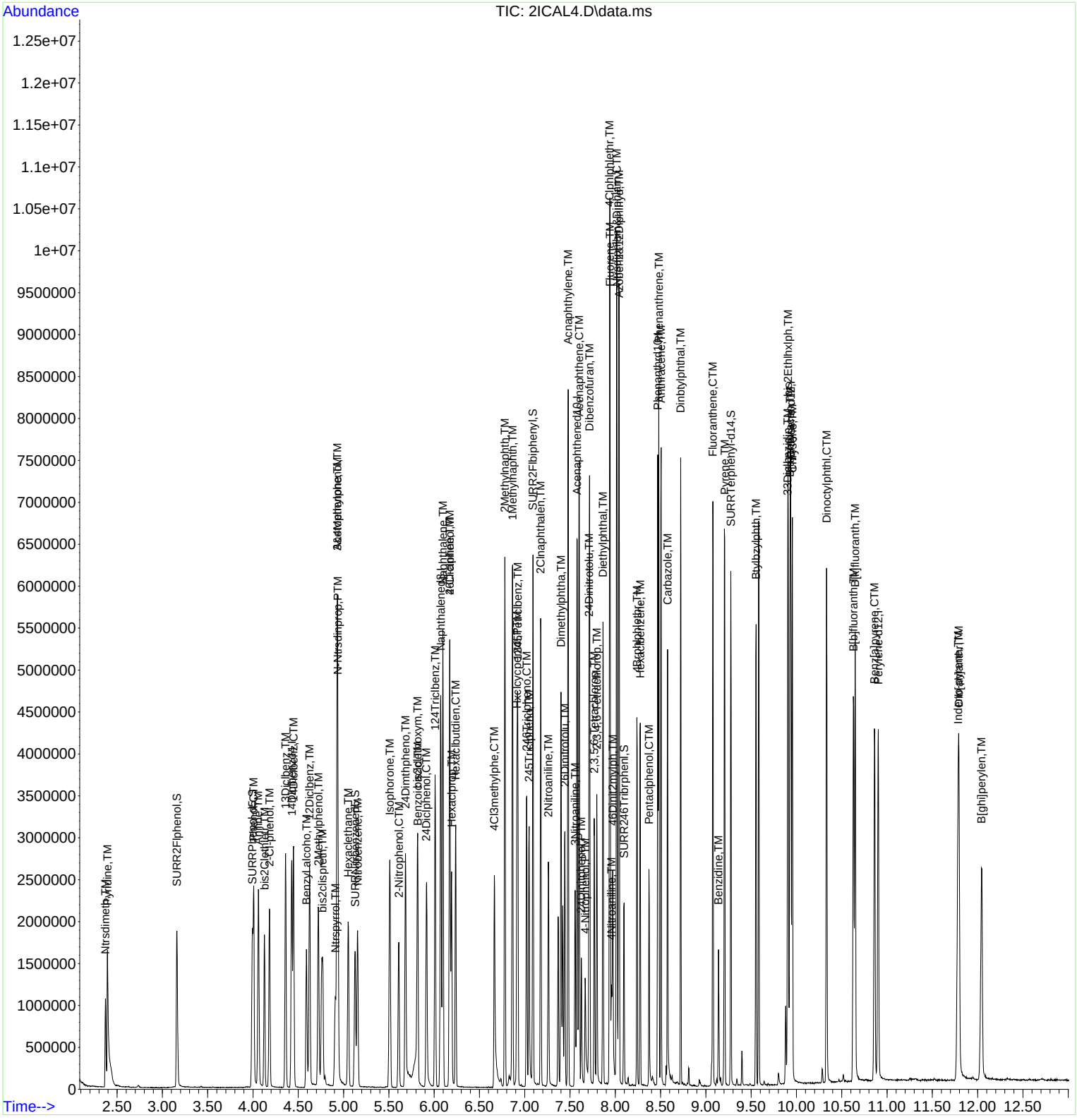
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	6.923	216	625199	20.9024 ug/mL	98
42) 246Triclpheno	7.022	196	423970	21.8959 ug/mL	91
43) 245Triclpheno	7.048	196	450079	21.8298 ug/mL	100
45) 2Clnaphthalen	7.176	162	1380367	20.3547 ug/mL	97
46) 2Nitroaniline	7.261	65	326967	19.6051 ug/mL#	66
47) Acnaphthylene	7.480	152	2345394	20.0454 ug/mL	98
48) Dimethylphtha	7.400	163	1617211	20.5805 ug/mL	99
49) 26Dinitrotolu	7.443	165	352972	21.8161 ug/mL	82
50) Acenaphthene	7.602	153	1468893	19.9594 ug/mL	99
51) 3Nitroaniline	7.557	138	370354	25.9809 ug/mL	88
52) 24Dinitphenol	7.625	184	197586	28.3131 ug/mL	72
53) Dibenzofuran	7.716	168	1919847	20.2851 ug/mL	95
54) 24Dinitrotolu	7.710	165	451812	22.8699 ug/mL	83
55) 4-Nitrophenol	7.667	109	116097	21.3349 ug/mL#	76
56) 2,3,5,6-Tetrachlorop	7.767	232	337283	25.7398 ug/mL	97
57) 2,3,4,6-Tetrachlorop	7.795	232	345158	22.9916 ug/mL	97
58) Fluorene	7.940	166	1514087	19.8555 ug/mL	100
59) 4Clphlphlethr	7.937	204	684578	20.5717 ug/mL	97
60) Diethylphthal	7.863	149	1623233	20.6445 ug/mL	98
61) 4Nitroaniline	7.957	138	363588	25.0218 ug/mL#	71
64) 46Dinit2mylph	7.971	198	254704	25.4601 ug/mL	94
65) Ntrsdiphlam&Diphlam	8.017	169	2047622	40.9608 ug/mL	99
66) Azobenz&12Diphlhyd	8.042	182	778577	40.7745 ug/mL#	67
67) 4Brphlphlethr	8.239	248	375367	22.2839 ug/mL	90
68) Hexaclbenzene	8.275	284	385586	22.2145 ug/mL	95
69) Pentaclphenol	8.372	266	185966	30.7056 ug/mL	96
70) Phenanthrene	8.480	178	1803488	19.7047 ug/mL	99
71) Anthracene	8.506	178	1835437	19.6077 ug/mL	99
72) Carbazole	8.577	167	1545045	22.2722 ug/mL	99
73) Dinbtylphthal	8.722	149	2174229	19.7859 ug/mL	99
74) Fluoranthene	9.077	202	1860360	20.1812 ug/mL	97
76) Benzidine	9.139	184	451432	25.0441 ug/mL	97
77) Pyrene	9.207	202	1883572	18.5083 ug/mL	92
79) Btylbzylphth	9.554	149	941842	19.0527 ug/mL	88
80) 33Diclbnzidin	9.904	252	361662	23.3865 ug/mL	100
81) B[a]anthracen	9.929	228	1771425	19.4154 ug/mL	97
82) Chrysene	9.955	228	1718315	19.9357 ug/mL	98
83) bis2Ethlhxlph	9.906	149	1379439	19.2370 ug/mL	98
84) Dinoctylphthl	10.333	149	2445326	19.9908 ug/mL	99
86) B[b]fluoranth	10.628	252	1689842	20.3715 ug/mL	98
87) B[k]fluoranth	10.648	252	1581360	18.9633 ug/mL	99
88) Benz[a]pyrene	10.861	252	1555111	19.7574 ug/mL	96
89) Indeno-pyrene	11.785	276	1586996	19.8920 ug/mL	94
90) Dib[ah]anthr	11.793	278	1285651	19.7954 ug/mL	98
91) B[ghi]perylen	12.043	276	1312942	19.7635 ug/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICAL4.D Vial: 5
Acq On : 2 Dec 2010 12:48 Operator: RPN
Sample : ICAL 4 20ug/ml SVMS4682 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 13:28:00 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 10:22:51 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICAL5.D Vial: 4
Acq On : 2 Dec 2010 12:28 Operator: RPN
Sample : ICAL 5 30ug/ml SVMS4683 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 13:44:23 2010

RPN
12/02/10

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 13:43:57 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.428	152	446560	20.00	ug/mL	0.00
21) Naphthalened8	6.070	136	2067137	20.00	ug/mL	0.00
39) Acenaphthened10	7.574	164	1084534	20.00	ug/mL	0.00
63) Phenanthrd10	8.466	188	1597232	20.00	ug/mL	0.00
75) Chrysene-d12	9.943	240	1495878	20.00	ug/mL	0.00
85) Perylene-d12	10.909	264	1336386	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	3.161	112	882712	79.51	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery = 79.51%			
7) SURRPhenol-d5	3.996	99	1046590	77.47	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 77.47%			
22) SURRNitrbenzened5	5.130	82	786446	151.00	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 151.00%#			
44) SURR2Flbiphenyl	7.088	172	2194790	155.39	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 155.39%#			
62) SURR246Tribrphenl	8.091	330	265139	89.76	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 89.76%			
78) SURRTerphenyl-d14	9.281	244	1685762	153.94	ug/mL	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 153.94%#			
Target Compounds						Qvalue
2) Ntrsdimeth	2.371	74	503571	31.7522	ug/mL	81
3) Pyridine	2.391	79	895468	31.6618	ug/mL	96
5) Aniline	4.062	93	1351281	30.5756	ug/mL	90
6) bis2Clethletr	4.127	93	829149	30.0460	ug/mL	99
8) Phenol	4.010	94	1041824	30.8849	ug/mL	85
9) 2-Cl-phenol	4.184	128	926391	30.9556	ug/mL	99
10) 13Diclbenz	4.360	146	1074840	30.5397	ug/mL	97
11) 14Diclbenz	4.448	146	1088734	31.0505	ug/mL	99
12) 12Diclbenz	4.627	146	1032140	31.0065	ug/mL	95
13) Benzyl alcoho	4.593	108	509327	30.5140	ug/mL#	75
14) bis2clispreth	4.769	45	1555690	29.5901	ug/mL	95
15) 2Methylphenol	4.724	108	781261	30.2847	ug/mL	98
16) Ntrspyrrol	4.917	100	431742	32.0562	ug/mL	83
17) Acetophenone	4.934	105	1168122	30.4836	ug/mL	84
18) Hexaclethane	5.053	117	368589	30.6610	ug/mL	98
19) N-Ntrsdinprop	4.942	70	526375	30.1678	ug/mL	93
20) 3&4Methylphenol	4.937	108	787024	30.1643	ug/mL	100
23) Nitrobenzene	5.158	77	787677	29.3572	ug/mL	81
24) Isophorone	5.514	82	1773575	30.8034	ug/mL	93
25) 2-Nitrophenol	5.610	139	597822	31.7917	ug/mL	76
26) 24Dimthpheno	5.684	107	899050	31.1511	ug/mL	89
27) bis2clethoxym	5.818	93	1180604	30.3327	ug/mL	89
28) 24Diclphenol	5.917	162	871782	32.5257	ug/mL	96
29) 124Triclbenz	6.011	180	1031902	31.9321	ug/mL	98
30) Benzoic acid	5.840	105	619181	31.8021	ug/mL	90
31) Naphthalene	6.096	128	3240183	30.6788	ug/mL	100
32) 4-Cl-aniline	6.170	127	1242732	33.5260	ug/mL	92
33) 26Diclphenol	6.170	162	757029	31.6325	ug/mL	98
34) Hexaclprop	6.190	213	553060	33.3978	ug/mL	100
35) Hexaclbutdien	6.235	225	484205	32.0518	ug/mL	95
36) 4Cl3methylphe	6.661	107	808920	31.5477	ug/mL	85
37) 2Methylnaphth	6.778	141	1811994	30.8194	ug/mL	97
38) 1Methylnaphth	6.860	141	1882223	30.5778	ug/mL	96
40) Hxclcycpentdi	6.912	237	565027	31.4600	ug/mL	99

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICAL5.D Vial: 4
Acq On : 2 Dec 2010 12:28 Operator: RPN
Sample : ICAL 5 30ug/ml SVMS4683 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 13:44:23 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 13:43:57 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

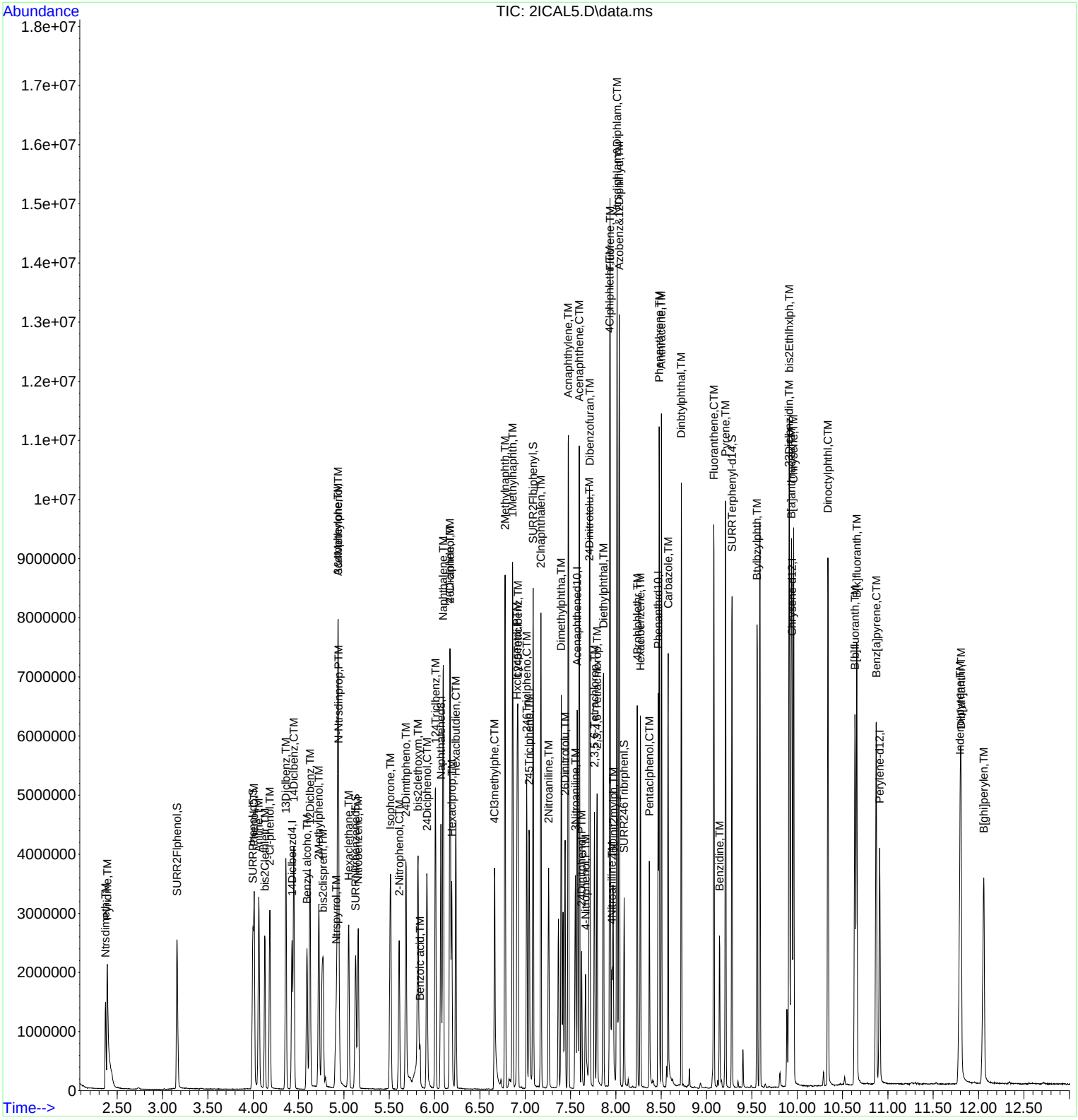
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1245Tetrclbenz	6.920	216	900227	32.3240	ug/mL	97
42) 246Triclpheno	7.017	196	611479	33.4509	ug/mL	91
43) 245Triclpheno	7.042	196	650620	33.5979	ug/mL	98
45) 2Clnaphthalen	7.173	162	1950819	31.3033	ug/mL	97
46) 2Nitroaniline	7.258	65	463664	30.6950	ug/mL#	66
47) Acnaphthylene	7.474	152	3269765	30.6194	ug/mL	97
48) Dimethylphtha	7.397	163	2294917	31.5886	ug/mL	99
49) 26Dinitrotolu	7.440	165	503250	32.8899	ug/mL	85
50) Acenaphthene	7.596	153	2080645	31.0262	ug/mL	100
51) 3Nitroaniline	7.554	138	549214	36.0212	ug/mL	86
52) 24Dinitphenol	7.622	184	301121	33.9262	ug/mL#	71
53) Dibenzofuran	7.713	168	2673668	30.8644	ug/mL	95
54) 24Dinitrotolu	7.707	165	625145	33.5317	ug/mL	86
55) 4-Nitrophenol	7.665	109	172413	33.8801	ug/mL	83
56) 2,3,5,6-Tetrachlorop	7.764	232	467764	32.7655	ug/mL	95
57) 2,3,4,6-Tetrachlorop	7.792	232	500227	32.6410	ug/mL	97
58) Fluorene	7.937	166	2090137	29.8575	ug/mL	99
59) 4Clphlphlethr	7.932	204	965043	31.2721	ug/mL	97
60) Diethylphthal	7.863	149	2301478	31.3714	ug/mL	98
61) 4Nitroaniline	7.957	138	492074	33.0589	ug/mL#	72
64) 46Dinit2mylph	7.971	198	367929	32.3635	ug/mL	89
65) Ntrsdiphlam&Diphlam	8.014	169	2868581	61.6233	ug/mL	99
66) Azobenz&12Diphlhyd	8.037	182	1075626	60.8580	ug/mL#	76
67) 4Brphlphlethr	8.236	248	532743	32.6549	ug/mL	91
68) Hexaclbenzene	8.270	284	547488	32.4317	ug/mL	98
69) Pentaclphenol	8.369	266	287121	34.3692	ug/mL	96
70) Phenanthrene	8.477	178	2607643	30.9473	ug/mL	100
71) Anthracene	8.503	178	2664787	30.9424	ug/mL	99
72) Carbazole	8.577	167	2197531	31.3817	ug/mL	98
73) Dinbtylphthal	8.722	149	3157904	31.3172	ug/mL	99
74) Fluoranthene	9.080	202	2680521	31.2830	ug/mL	97
76) Benzidine	9.142	184	738979	32.9985	ug/mL	97
77) Pyrene	9.210	202	2745546	29.8973	ug/mL	93
79) Btylbzylphth	9.557	149	1368099	30.4918	ug/mL	91
80) 33Diclbnzidin	9.909	252	530468	31.2859	ug/mL	97
81) B[a]anthracen	9.935	228	2550011	30.2959	ug/mL	98
82) Chrysene	9.960	228	2464414	30.8709	ug/mL	99
83) bis2Ethlhxlph	9.912	149	1982898	30.4771	ug/mL	99
84) Dinoctylphthl	10.338	149	3567780	31.7322	ug/mL	100
86) B[b]fluoranth	10.637	252	2323473	29.5439	ug/mL	98
87) B[k]fluoranth	10.657	252	2485394	32.4826	ug/mL	99
88) Benz[a]pyrene	10.872	252	2243357	30.4666	ug/mL	97
89) Indeno-pyrene	11.796	276	2248152	30.3554	ug/mL	94
90) Dib[ah]anthr	11.807	278	1838301	30.6336	ug/mL	95
91) B[ghi]perylen	12.057	276	1855594	29.9671	ug/mL	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICAL5.D Vial: 4
Acq On : 2 Dec 2010 12:28 Operator: RPN
Sample : ICAL 5 30ug/ml SVMS4683 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 13:44:23 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 13:43:57 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICAL6.D Vial: 3
Acq On : 2 Dec 2010 12:07 Operator: RPN
Sample : ICAL 6 40ug/ml SVMS4684 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 13:42:53 2010

RPN
12/02/10

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 13:42:34 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.428	152	471593	20.00	ug/mL	0.00
21) Naphthalened8	6.076	136	2216620	20.00	ug/mL	0.00
39) Acenaphthened10	7.582	164	1164854	20.00	ug/mL	0.00
63) Phenanthrd10	8.471	188	1668839	20.00	ug/mL	0.00
75) Chrysene-d12	9.932	240	1572868	20.00	ug/mL	0.00
85) Perylene-d12	10.898	264	1346120	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	3.161	112	1224391	104.27	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery = 104.27%			
7) SURRPhenol-d5	3.999	99	1469368	102.47	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 102.47%			
22) SURRNitrbenzened5	5.133	82	1120415	197.72	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 197.72%#			
44) SURR2Flbiphenyl	7.096	172	3068976	200.76	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 200.76%#			
62) SURR246Tribrphenl	8.102	330	380069	123.34	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 123.34%			
78) SURRTerphenyl-d14	9.270	244	2318632	198.58	ug/mL	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 198.58%#			
Target Compounds						Qvalue
2) Ntrsdimeth	2.371	74	690805	40.9847	ug/mL	86
3) Pyridine	2.391	79	1264287	42.1767	ug/mL	98
5) Aniline	4.064	93	1892844	40.0311	ug/mL	89
6) bis2Clethletr	4.130	93	1159107	39.4441	ug/mL	100
8) Phenol	4.016	94	1457695	40.6173	ug/mL	86
9) 2-Cl-phenol	4.187	128	1326650	41.8375	ug/mL	97
10) 13Diclbenz	4.363	146	1503503	40.4034	ug/mL	98
11) 14Diclbenz	4.451	146	1497520	40.3127	ug/mL	98
12) 12Diclbenz	4.627	146	1441552	40.9817	ug/mL	95
13) Benzyl alcoho	4.599	108	732217	39.9716	ug/mL#	75
14) bis2clispreth	4.772	45	2221900	39.5827	ug/mL	97
15) 2Methylphenol	4.726	108	1117723	40.7456	ug/mL	99
16) Ntrspyrrol	4.922	100	592614	41.3455	ug/mL	87
17) Acetophenone	4.937	105	1620061	39.7246	ug/mL	86
18) Hexaclethane	5.053	117	505455	39.5499	ug/mL	97
19) N-Ntrsdinprop	4.951	70	729302	39.0771	ug/mL	98
20) 3&4Methylphenol	4.942	108	1086755	39.1499	ug/mL	95
23) Nitrobenzene	5.164	77	1140066	38.9867	ug/mL	82
24) Isophorone	5.522	82	2544074	40.8077	ug/mL	92
25) 2-Nitrophenol	5.616	139	853787	42.7266	ug/mL	79
26) 24Dimthpheno	5.692	107	1280201	41.1053	ug/mL	88
27) bis2clethoxym	5.823	93	1675192	39.8448	ug/mL	88
28) 24Diclphenol	5.923	162	1233065	42.8954	ug/mL	98
29) 124Triclbenz	6.016	180	1444835	41.8061	ug/mL	97
30) Benzoic acid	5.869	105	935658	44.0468	ug/mL	90
31) Naphthalene	6.102	128	4599561	40.4631	ug/mL	100
32) 4-Cl-aniline	6.178	127	1733760	43.6332	ug/mL	94
33) 26Diclphenol	6.178	162	1055860	40.9620	ug/mL	97
34) Hexaclprop	6.195	213	785212	44.5271	ug/mL	98
35) Hexaclbutdien	6.241	225	687647	42.6510	ug/mL	97
36) 4Cl3methylphe	6.670	107	1173840	42.6912	ug/mL	86
37) 2Methylnaphth	6.786	141	2532985	39.9769	ug/mL	97
38) 1Methylnaphth	6.869	141	2628033	39.5417	ug/mL	97
40) Hxclcycpentdi	6.917	237	802038	41.5680	ug/mL	98

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICAL6.D Vial: 3
Acq On : 2 Dec 2010 12:07 Operator: RPN
Sample : ICAL 6 40ug/ml SVMS4684 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 13:42:53 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 13:42:34 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

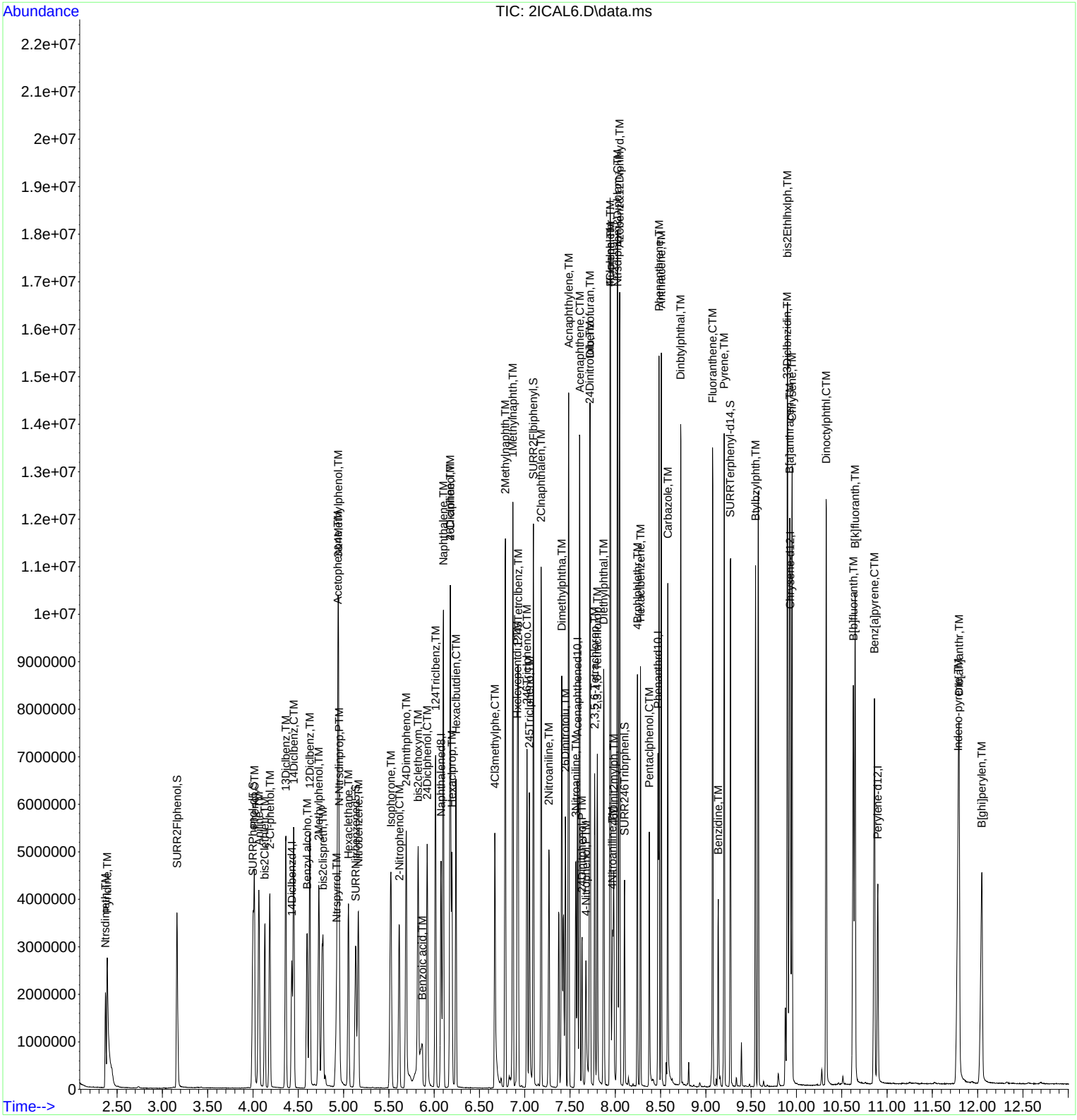
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	6.929	216	1245554	41.6115 ug/mL	98
42) 246Triclpheno	7.025	196	860031	43.9645 ug/mL	92
43) 245Triclpheno	7.051	196	910729	43.9263 ug/mL	98
45) 2Clnaphthalen	7.181	162	2722988	40.4303 ug/mL	97
46) 2Nitroaniline	7.267	65	655556	39.9940 ug/mL#	68
47) Acnaphthylene	7.485	152	4555019	39.4563 ug/mL	97
48) Dimethylphtha	7.409	163	3210956	41.0243 ug/mL	98
49) 26Dinitrotolu	7.449	165	704970	43.1187 ug/mL	84
50) Acenaphthene	7.608	153	2866427	39.5110 ug/mL	99
51) 3Nitroaniline	7.565	138	785361	50.1340 ug/mL	85
52) 24Dinitphenol	7.633	184	441821	46.1803 ug/mL	71
53) Dibenzofuran	7.721	168	3647552	38.9934 ug/mL	97
54) 24Dinitrotolu	7.718	165	848016	42.4485 ug/mL	90
55) 4-Nitrophenol	7.676	109	240110	44.0851 ug/mL	88
56) 2,3,5,6-Tetrachlorop	7.772	232	676385	46.5707 ug/mL	96
57) 2,3,4,6-Tetrachlorop	7.801	232	700886	44.0197 ug/mL	97
58) Fluorene	7.946	166	2924860	38.7451 ug/mL	99
59) 4Clphlphlethr	7.943	204	1303014	39.2277 ug/mL	96
60) Diethylphthal	7.872	149	3189218	40.4561 ug/mL	97
61) 4Nitroaniline	7.968	138	750534	48.7904 ug/mL#	73
64) 46Dinit2mylph	7.983	198	524946	44.1486 ug/mL	93
65) Ntrsdiphlam&Diphlam	8.025	169	3928511	80.8058 ug/mL	98
66) Azobenz&12Diphlhyd	8.048	182	1468925	79.3799 ug/mL#	72
67) 4Brphlphlethr	8.244	248	743895	44.1563 ug/mL	88
68) Hexaclbenzene	8.278	284	770597	44.3822 ug/mL	96
69) Pentaclphenol	8.375	266	416084	45.9925 ug/mL	94
70) Phenanthrene	8.483	178	3602160	40.7870 ug/mL	99
71) Anthracene	8.508	178	3702198	41.0283 ug/mL	97
72) Carbazole	8.579	167	3076334	43.4389 ug/mL	98
73) Dinbtylphthal	8.721	149	4326015	40.8700 ug/mL	98
74) Fluoranthene	9.074	202	3734126	41.7104 ug/mL	100
76) Benzidine	9.136	184	1093537	45.6994 ug/mL	98
77) Pyrene	9.202	202	3851324	39.2255 ug/mL	95
79) Btylbzylphth	9.548	149	1916984	40.1464 ug/mL	88
80) 33Diclbnzidin	9.898	252	783947	44.8449 ug/mL	95
81) B[a]anthracen	9.926	228	3607950	40.5926 ug/mL	98
82) Chrysene	9.952	228	3456210	40.9725 ug/mL	98
83) bis2Ethlhxlph	9.901	149	2730140	39.4236 ug/mL	99
84) Dinoctylphthl	10.330	149	4921439	41.3695 ug/mL	100
86) B[b]fluoranth	10.628	252	3325785	41.9495 ug/mL	98
87) B[k]fluoranth	10.648	252	3198454	41.1902 ug/mL	99
88) Benz[a]pyrene	10.861	252	3124106	42.0310 ug/mL	97
89) Indeno-pyrene	11.785	276	3097717	41.1865 ug/mL	92
90) Dib[ah]anthr	11.796	278	2532092	41.5056 ug/mL	96
91) B[ghi]perylen	12.046	276	2592885	41.3103 ug/mL	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICAL6.D Vial: 3
Acq On : 2 Dec 2010 12:07 Operator: RPN
Sample : ICAL 6 40ug/ml SVMS4684 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 13:42:53 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 13:42:34 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICAL7.D Vial: 2
Acq On : 2 Dec 2010 11:47 Operator: RPN
Sample : ICAL 7 50ug/ml SVMS4685 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 13:44:07 2010

RPN
12/02/10

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 13:43:57 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.431	152	497057	20.00	ug/mL	0.00
21) Naphthalened8	6.073	136	2320822	20.00	ug/mL	0.00
39) Acenaphthened10	7.576	164	1216212	20.00	ug/mL	0.00
63) Phenanthrd10	8.469	188	1747309	20.00	ug/mL	0.00
75) Chrysene-d12	9.952	240	1606301	20.00	ug/mL	0.01
85) Perylene-d12	10.915	264	1403608	20.00	ug/mL	0.01
System Monitoring Compounds						
4) SURR2Flphenol	3.161	112	1576195	127.55	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery = 127.55%#			
7) SURRPhenol-d5	4.002	99	1873674	124.60	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 124.60%#			
22) SURRNitrbenzened5	5.136	82	1429455	244.47	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 244.47%#			
44) SURR2Flbiphenyl	7.091	172	3818537	241.08	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 241.08%#			
62) SURR246Tribrphenl	8.096	330	488342	147.42	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 147.42%#			
78) SURRTerphenyl-d14	9.287	244	2944875	250.43	ug/mL	0.01
Spiked Amount 100.000	Range 50 - 135		Recovery = 250.43%#			
Target Compounds						Qvalue
2) Ntrsdimeth	2.374	74	891637	50.5097	ug/mL	84
3) Pyridine	2.391	79	1646264	52.2948	ug/mL	99
5) Aniline	4.067	93	2417460	49.1431	ug/mL	89
6) bis2Clethletr	4.133	93	1477245	48.0929	ug/mL	100
8) Phenol	4.019	94	1872368	49.8674	ug/mL	84
9) 2-Cl-phenol	4.187	128	1678912	50.4019	ug/mL	99
10) 13Diclbenz	4.363	146	1899565	48.4897	ug/mL	98
11) 14Diclbenz	4.451	146	1908025	48.8883	ug/mL	97
12) 12Diclbenz	4.630	146	1809503	48.8368	ug/mL	94
13) Benzyl alcoho	4.601	108	948302	48.9191	ug/mL	78
14) bis2clispreth	4.775	45	2846013	48.6333	ug/mL	95
15) 2Methylphenol	4.729	108	1417397	49.3620	ug/mL	97
16) Ntrspyrrol	4.931	100	749734	50.0114	ug/mL	96
17) Acetophenone	4.940	105	2065313	48.4214	ug/mL	85
18) Hexaclethane	5.053	117	640557	47.8713	ug/mL	99
19) N-Ntrsdinprop	4.954	70	934177	48.1007	ug/mL	89
20) 3&4Methylphenol	4.951	108	1392156	47.9366	ug/mL	99
23) Nitrobenzene	5.167	77	1457453	48.3826	ug/mL	80
24) Isophorone	5.525	82	3227056	49.9210	ug/mL	93
25) 2-Nitrophenol	5.616	139	1084674	51.3769	ug/mL	77
26) 24Dimthpheno	5.693	107	1628227	50.2496	ug/mL	88
27) bis2clethoxym	5.823	93	2132137	48.7921	ug/mL	88
28) 24Diclphenol	5.923	162	1561248	51.8822	ug/mL	98
29) 124Triclbenz	6.014	180	1804553	49.7377	ug/mL	96
30) Benzoic acid	5.886	105	1197724	49.2616	ug/mL	87
31) Naphthalene	6.099	128	5744671	48.4464	ug/mL	100
32) 4-Cl-aniline	6.176	127	2180240	52.3885	ug/mL	93
33) 26Diclphenol	6.176	162	1312165	48.8356	ug/mL	95
34) Hexaclprop	6.193	213	979891	52.7049	ug/mL	97
35) Hexaclbutdien	6.238	225	846098	49.8851	ug/mL	95
36) 4Cl3methylphe	6.667	107	1478232	51.3491	ug/mL	86
37) 2Methylnaphth	6.781	141	3146779	47.6717	ug/mL	98
38) 1Methylnaphth	6.863	141	3271624	47.3397	ug/mL	97
40) Hxclcycpentdi	6.912	237	1013298	50.3108	ug/mL	99

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICAL7.D Vial: 2
Acq On : 2 Dec 2010 11:47 Operator: RPN
Sample : ICAL 7 50ug/ml SVMS4685 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 13:44:07 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 13:43:57 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

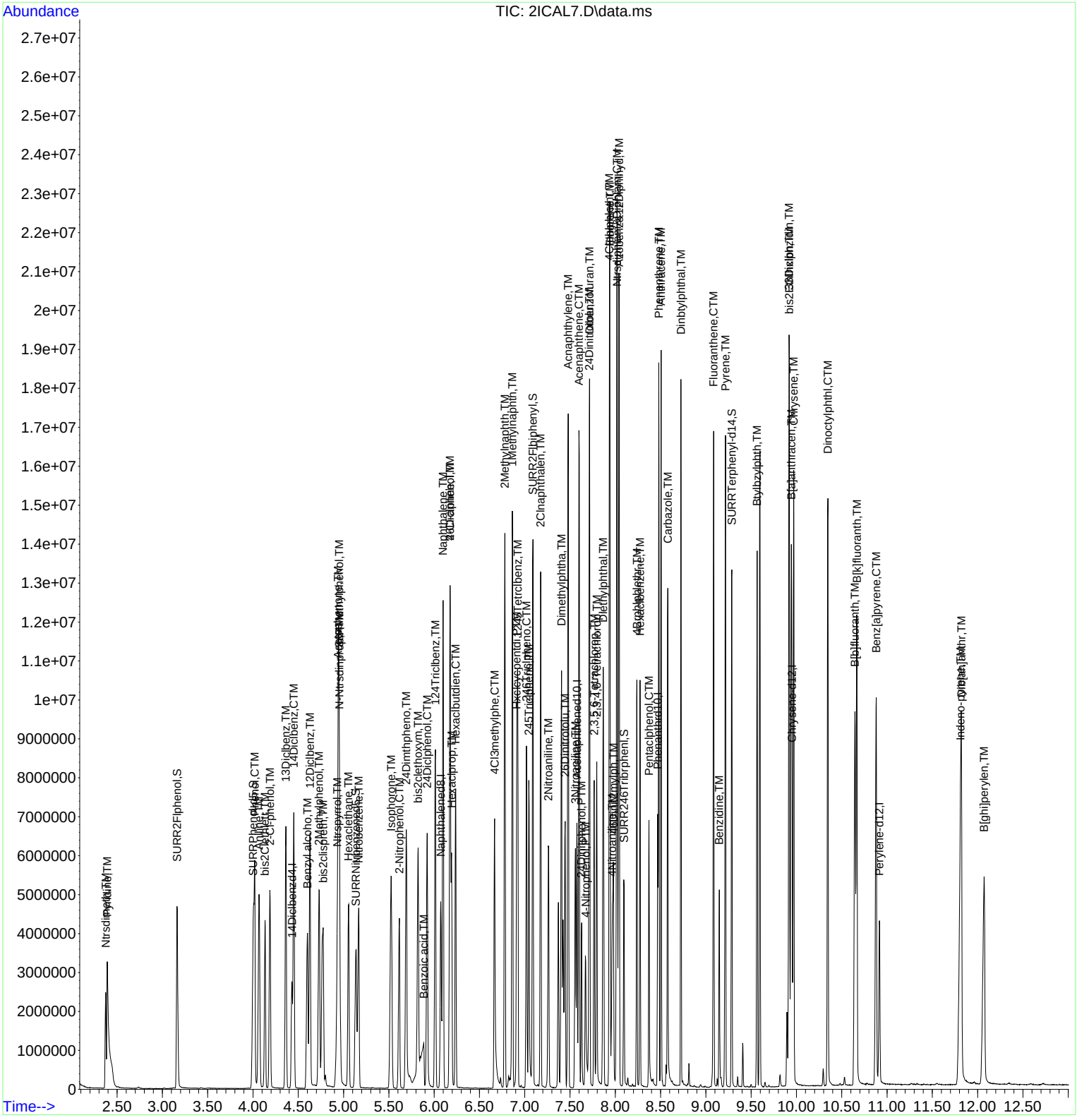
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	6.923	216	1554974	49.7886 ug/mL	97
42) 246Triclpheno	7.020	196	1092628	53.3007 ug/mL	93
43) 245Triclpheno	7.045	196	1167538	53.7637 ug/mL	99
45) 2Clnaphthalen	7.176	162	3430735	49.0902 ug/mL	97
46) 2Nitroaniline	7.261	65	833100	49.1808 ug/mL#	67
47) Acnaphthylene	7.480	152	5669612	47.3442 ug/mL	96
48) Dimethylphtha	7.406	163	4006185	49.1732 ug/mL	98
49) 26Dinitrotolu	7.446	165	884884	51.5702 ug/mL	81
50) Acenaphthene	7.599	153	3556613	47.2935 ug/mL	98
51) 3Nitroaniline	7.559	138	1000968	58.5424 ug/mL	87
52) 24Dinitphenol	7.628	184	563660	49.3565 ug/mL	73
53) Dibenzofuran	7.716	168	4477371	46.0901 ug/mL	97
54) 24Dinitrotolu	7.713	165	1054213	50.4239 ug/mL	92
55) 4-Nitrophenol	7.673	109	311655	54.6113 ug/mL	86
56) 2,3,5,6-Tetrachlorop	7.767	232	858045	53.5961 ug/mL	96
57) 2,3,4,6-Tetrachlorop	7.795	232	889770	51.7735 ug/mL	96
58) Fluorene	7.940	166	3612046	46.0114 ug/mL	100
59) 4Clphlphlethr	7.934	204	1601956	46.2909 ug/mL	97
60) Diethylphthal	7.866	149	4046565	49.1867 ug/mL	97
61) 4Nitroaniline	7.966	138	903007	54.0983 ug/mL#	72
64) 46Dinit2mylph	7.980	198	675269	49.5974 ug/mL	88
65) Ntrsdiphlam&Diphlam	8.020	169	4959713	97.3942 ug/mL	98
66) Azobenz&12Diphlhyd	8.042	182	1836649	94.9906 ug/mL#	71
67) 4Brphlphlethr	8.239	248	950899	53.2799 ug/mL	88
68) Hexaclbenzene	8.273	284	957671	51.8573 ug/mL	95
69) Pentaclphenol	8.372	266	545145	49.4232 ug/mL	96
70) Phenanthrene	8.480	178	4485851	48.6650 ug/mL	99
71) Anthracene	8.506	178	4525716	48.0371 ug/mL	99
72) Carbazole	8.579	167	3920963	51.1838 ug/mL	97
73) Dinbtylphthal	8.724	149	4963226	44.9931 ug/mL	95
74) Fluoranthene	9.085	202	4807390	51.2857 ug/mL	99
76) Benzidine	9.148	184	1433559	50.1357 ug/mL	98
77) Pyrene	9.216	202	4885367	49.5416 ug/mL	96
79) Btylbzylphth	9.565	149	2378559	49.3684 ug/mL	90
80) 33Diclbnzidin	9.918	252	1023483	50.8174 ug/mL	98
81) B[a]anthracen	9.943	228	4497738	49.7629 ug/mL	99
82) Chrysene	9.969	228	4315165	50.3387 ug/mL	98
83) bis2Ethlhxlph	9.921	149	3349785	47.9468 ug/mL	99
84) Dinoctylphthl	10.347	149	6108434	50.5943 ug/mL	100
86) B[b]fluoranth	10.645	252	4506748	54.5607 ug/mL	97
87) B[k]fluoranth	10.668	252	3830589	47.6659 ug/mL	99
88) Benz[a]pyrene	10.881	252	3922184	50.7153 ug/mL	97
89) Indeno-pyrene	11.810	276	3916777	50.3530 ug/mL	92
90) Dib[ah]anthr	11.822	278	3230502	51.2551 ug/mL	97
91) B[ghi]perylen	12.072	276	3272367	50.3165 ug/mL	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICAL7.D Vial: 2
Acq On : 2 Dec 2010 11:47 Operator: RPN
Sample : ICAL 7 50ug/ml SVMS4685 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 13:44:07 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 13:43:57 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICV1.D Vial: 9
Acq On : 2 Dec 2010 14:10 Operator: RPN
Sample : ICV 1 20ug/ml SVMS4686 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 14:33:36 2010

RPN
12/02/10

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 14:33:20 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Compound		R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards							
1) 14Diclbenzd4		4.425	152	514539	20.00	ug/mL	0.00
21) Naphthalened8		6.071	136	2311544	20.00	ug/mL	0.00
39) Acenaphthened10		7.574	164	1186636	20.00	ug/mL	0.00
63) Phenanthrd10		8.466	188	1773794	20.00	ug/mL	0.00
75) Chrysene-d12		9.938	240	1627497	20.00	ug/mL	0.00
85) Perylene-d12		10.907	264	1429018	20.00	ug/mL	0.00
System Monitoring Compounds							
4) SURR2Flphenol		3.158	112	630746	49.24	%REC	0.00
Spiked Amount	100.000	Range 20 - 110		Recovery = 49.24%			
7) SURRPhenol-d5		3.991	99	746523	48.52	%REC	0.00
Spiked Amount	100.000	Range 10 - 115		Recovery = 48.52%			
22) SURRNitrbenzened5		5.127	82	570116	102.20	%REC	0.00
Spiked Amount	100.000	Range 40 - 110		Recovery = 102.20%			
44) SURR2Flbiphenyl		7.085	172	1577102	101.58	%REC	0.00
Spiked Amount	100.000	Range 50 - 110		Recovery = 101.58%			
62) SURR246Tribrphenl		8.088	330	178781	49.83	%REC	0.00
Spiked Amount	100.000	Range 40 - 125		Recovery = 49.83%			
78) SURRTerphenyl-d14		9.276	244	1185961	100.32	ug/mL	0.00
Spiked Amount	100.000	Range 50 - 135		Recovery = 100.32%			
Target Compounds							Qvalue
2) Ntrsdimeth		2.368	74	363429	19.8917	ug/mL	84
3) Pyridine		2.391	79	661185	20.3697	ug/mL	96
5) Aniline		4.059	93	990106	19.9622	ug/mL	89
6) bis2Clethletr		4.127	93	623760	20.2609	ug/mL	98
8) Phenol		4.008	94	759867	20.0359	ug/mL	85
9) 2-Cl-phenol		4.181	128	684736	19.8228	ug/mL	98
10) 13Diclbenz		4.360	146	781373	19.5831	ug/mL	98
11) 14Diclbenz		4.448	146	808018	19.9306	ug/mL	95
12) 12Diclbenz		4.624	146	752902	19.5734	ug/mL	94
13) Benzyl alcoho		4.590	108	365313	20.4748	ug/mL#	73
14) bis2clispreth		4.763	45	1140226	19.4454	ug/mL	95
15) 2Methylphenol		4.721	108	565203	19.4896	ug/mL	96
16) Ntrspyrrol		4.908	100	309411	20.1863	ug/mL	82
17) Acetophenone		4.928	105	849347	19.6274	ug/mL	84
18) Hexaclethane		5.050	117	263270	19.4671	ug/mL	92
19) N-Ntrsdinprop		4.937	70	383897	19.8206	ug/mL	97
20) 3&4Methylphenol		4.931	108	584118	20.1960	ug/mL	97
23) Nitrobenzene		5.153	77	593076	20.8122	ug/mL	84
24) Isophorone		5.511	82	1265876	20.1253	ug/mL	93
25) 2-Nitrophenol		5.607	139	436346	20.4789	ug/mL	74
26) 24Dimthpheno		5.681	107	652141	20.1976	ug/mL	88
27) bis2clethoxym		5.815	93	867879	20.0129	ug/mL	89
28) 24Diclphenol		5.914	162	629158	20.8682	ug/mL	97
29) 124Triclbenz		6.008	180	745534	19.9723	ug/mL	97
30) Benzoic acid		5.820	105	444760	20.4330	ug/mL	91
31) Naphthalene		6.093	128	2383523	20.2043	ug/mL	100
32) 4-Cl-aniline		6.167	127	893513	20.1913	ug/mL	92
33) 26Diclphenol		6.170	162	540113	19.7850	ug/mL	96
34) Hexaclprop		6.190	213	389491	20.2895	ug/mL	98
35) Hexaclbutdien		6.232	225	349090	19.8904	ug/mL	95
36) 4Cl3methylphe		6.662	107	590770	20.4867	ug/mL	87
37) 2Methylnaphth		6.775	141	1318398	20.0206	ug/mL	100
38) 1Methylnaphth		6.860	141	1376131	20.1342	ug/mL	96
40) Hxclcycpentdi		6.909	237	398303	20.1545	ug/mL	97

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICV1.D Vial: 9
Acq On : 2 Dec 2010 14:10 Operator: RPN
Sample : ICV 1 20ug/ml SVMS4686 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 14:33:36 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 14:33:20 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

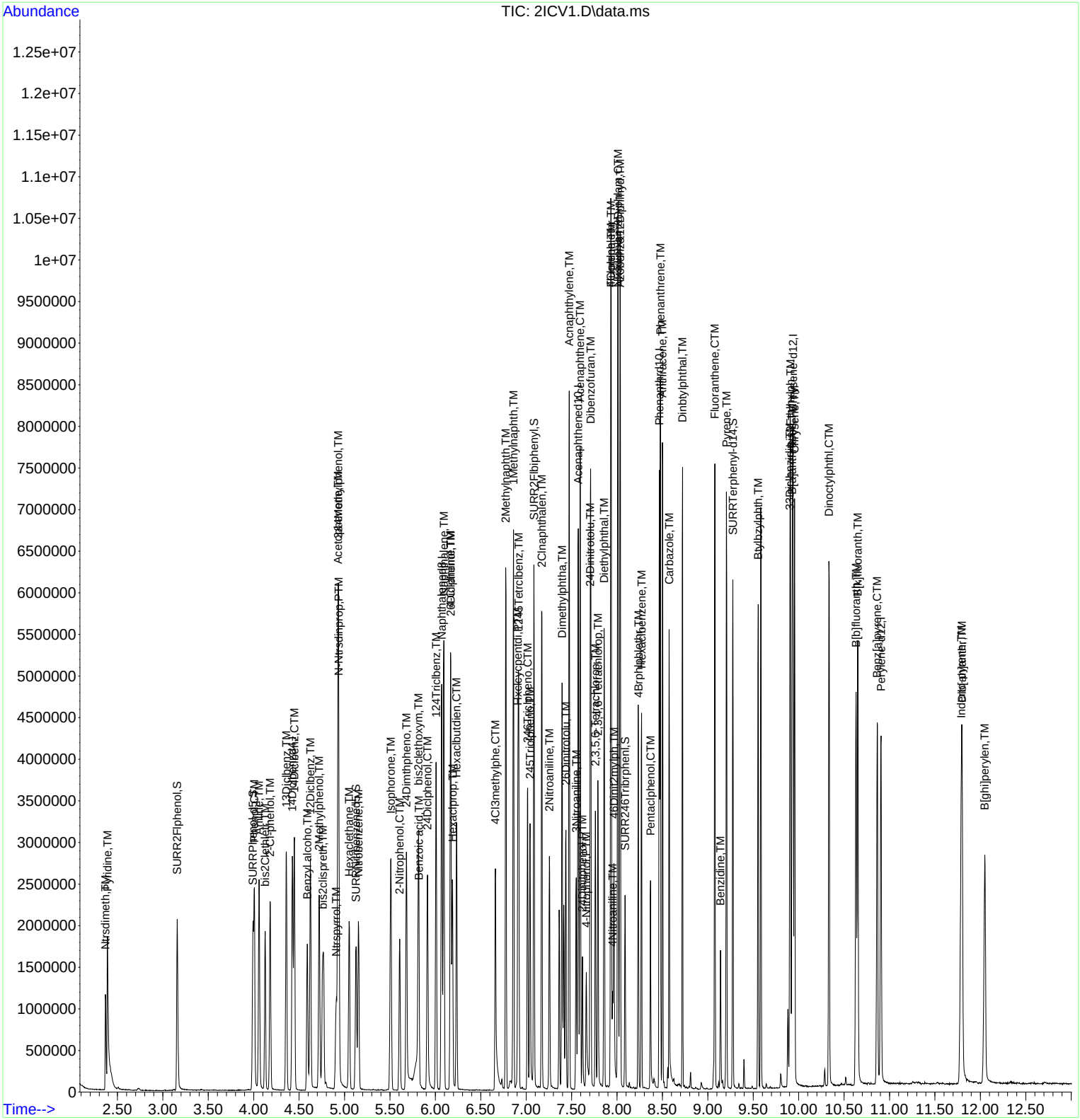
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	6.917	216	645291	20.4165 ug/mL	96
42) 246Triclpheno	7.017	196	430211	20.6645 ug/mL	94
43) 245Triclpheno	7.042	196	453871	20.5257 ug/mL	98
45) 2Clnaphthalen	7.173	162	1399469	20.4158 ug/mL	98
46) 2Nitroaniline	7.255	65	342023	21.3683 ug/mL#	70
47) Acnaphthylene	7.474	152	2396062	20.4025 ug/mL	98
48) Dimethylphtha	7.395	163	1669221	20.7216 ug/mL	98
49) 26Dinitrotolu	7.437	165	361639	20.7548 ug/mL	83
50) Acenaphthene	7.594	153	1510830	20.4622 ug/mL	99
51) 3Nitroaniline	7.551	138	381575	20.4610 ug/mL	85
52) 24Dinitphenol	7.619	184	197921	19.2777 ug/mL	76
53) Dibenzofuran	7.710	168	1970486	20.5108 ug/mL	95
54) 24Dinitrotolu	7.704	165	458050	21.2358 ug/mL	85
55) 4-Nitrophenol	7.662	109	121054	20.2560 ug/mL	79
56) 2,3,5,6-Tetrachlorop	7.761	232	336963	20.0372 ug/mL	96
57) 2,3,4,6-Tetrachlorop	7.790	232	356592	20.2087 ug/mL	96
58) Fluorene	7.934	166	1540116	19.8813 ug/mL	99
59) 4Clphlphlethr	7.932	204	700096	20.3173 ug/mL	97
60) Diethylphthal	7.858	149	1661023	20.4286 ug/mL	99
61) 4Nitroaniline	7.952	138	377184	20.6088 ug/mL#	71
64) 46Dinit2mylph	7.966	198	265029	20.6193 ug/mL	95
65) Ntrsdiphlam&Diphlam	8.011	169	2104433	39.9427 ug/mL	97
66) Azobenz&12Diphlhyd	8.034	182	798212	40.1030 ug/mL#	77
67) 4Brphlphlethr	8.236	248	399717	20.7663 ug/mL	85
68) Hexaclbenzene	8.270	284	391868	19.6273 ug/mL	95
69) Pentaclphenol	8.369	266	193685	19.5745 ug/mL	95
70) Phenanthrene	8.477	178	1877265	19.9594 ug/mL	99
71) Anthracene	8.500	178	1915421	20.0872 ug/mL	98
72) Carbazole	8.574	167	1648165	20.4028 ug/mL	98
73) Dinbtylphthal	8.722	149	2269136	20.8046 ug/mL	99
74) Fluoranthene	9.077	202	1930797	20.3431 ug/mL	97
76) Benzidine	9.139	184	453500	18.6985 ug/mL	98
77) Pyrene	9.205	202	1987987	20.4834 ug/mL	94
79) Btylbzylphth	9.554	149	976210	20.6867 ug/mL	88
80) 33Diclbnzidin	9.904	252	364533	19.4917 ug/mL	97
81) B[a]anthracen	9.929	228	1839795	20.3266 ug/mL	98
82) Chrysene	9.955	228	1749702	20.1762 ug/mL	98
83) bis2Ethlhxlph	9.909	149	1432229	20.8825 ug/mL	99
84) Dinoctylphthl	10.333	149	2522263	20.6975 ug/mL	99
86) B[b]fluoranth	10.631	252	1630216	19.3672 ug/mL	98
87) B[k]fluoranth	10.651	252	1707615	21.4769 ug/mL	97
88) Benz[a]pyrene	10.864	252	1572560	20.4687 ug/mL	98
89) Indeno-pyrene	11.790	276	1642269	21.0520 ug/mL	94
90) Dib[ah]anthr	11.799	278	1351643	21.3547 ug/mL	98
91) B[ghi]perylen	12.049	276	1369556	21.1360 ug/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICV1.D Vial: 9
Acq On : 2 Dec 2010 14:10 Operator: RPN
Sample : ICV 1 20ug/ml SVMS4686 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 14:33:36 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 14:33:20 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M



Initial Calibration Verification Report

Data File Name	2ICV1.D
Data File Path	C:\INSTARCH\DATA\2S120210B\
Operator	RPN
Date Acquired	12/2/2010 14:10
Acq. Method File	2S120210.M
Sample Name	ICV 1 20ug/ml SVMS4686
Misc Info	500uL+5uL IS S2263B
Vial Number	9
Instrument Name	SVMS2
Sample Multiplier	1

#	Name	Ret Time	Amount	Units	Response	70-130 %REC
1)	14Diclbenzd4	4.43	20.00	ug/mL	514539	ISTD
2)	Ntrsdimeth	2.37	19.89	ug/mL	363429	99
3)	Pyridine	2.39	20.37	ug/mL	661185	102
4)	SURR2Flphenol	3.16	49.24	%REC	630746	98
5)	Aniline	4.06	19.96	ug/mL	990106	100
6)	bis2Clethletr	4.13	20.26	ug/mL	623760	101
7)	SURRPhenol-d5	3.99	48.52	%REC	746523	97
8)	Phenol	4.01	20.04	ug/mL	759867	100
9)	2-Cl-phenol	4.18	19.82	ug/mL	684736	99
10)	13Diclbenz	4.36	19.58	ug/mL	781373	98
11)	14Diclbenz	4.45	19.93	ug/mL	808018	100
12)	12Diclbenz	4.62	19.57	ug/mL	752902	98
13)	Benzyl alcoho	4.59	20.47	ug/mL	365313	102
14)	bis2clispreth	4.76	19.45	ug/mL	1140226	97
15)	2Methylphenol	4.72	19.49	ug/mL	565203	97
16)	Ntrspyrrol	4.91	20.19	ug/mL	309411	101
17)	Acetophenone	4.93	19.63	ug/mL	849347	98
18)	Hexaclethane	5.05	19.47	ug/mL	263270	97
19)	N-Ntrsdinprop	4.94	19.82	ug/mL	383897	99
20)	3&4Methylphenol	4.93	20.20	ug/mL	584118	101
21)	Naphthalened8	6.07	20.00	ug/mL	2311544	ISTD
22)	SURRNitrbenzened5	5.13	102.20	%REC	570116	102
23)	Nitrobenzene	5.15	20.81	ug/mL	593076	104
24)	Isophorone	5.51	20.13	ug/mL	1265876	101
25)	2-Nitrophenol	5.61	20.48	ug/mL	436346	102
26)	24Dimthpheno	5.68	20.20	ug/mL	652141	101
27)	bis2clethoxym	5.81	20.01	ug/mL	867879	100
28)	24Diclphenol	5.91	20.87	ug/mL	629158	104
29)	124Triclbenz	6.01	19.97	ug/mL	745534	100
30)	Benzoic acid	5.82	20.43	ug/mL	444760	102
31)	Naphthalene	6.09	20.20	ug/mL	2383523	101
32)	4-Cl-aniline	6.17	20.19	ug/mL	893513	101
33)	26Diclphenol	6.17	19.78	ug/mL	540113	99
34)	Hexaclprop	6.19	20.29	ug/mL	389491	101
35)	Hexaclbutdien	6.23	19.89	ug/mL	349090	99
36)	4Cl3methylphe	6.66	20.49	ug/mL	590770	102
37)	2Methylnaphth	6.78	20.02	ug/mL	1318398	100

38)	1Methylnaphth	6.86	20.13	ug/mL	1376131	101
39)	Acenaphthened10	7.57	20.00	ug/mL	1186636	ISTD
40)	Hxclcycpentdi	6.91	20.15	ug/mL	398303	101
41)	1245Tetrclbenz	6.92	20.42	ug/mL	645291	102
42)	246Triclpheno	7.02	20.66	ug/mL	430211	103
43)	245Triclpheno	7.04	20.53	ug/mL	453871	103
44)	SURR2Flbiphenyl	7.08	101.58	%REC	1577102	102
45)	2Clnaphthalen	7.17	20.42	ug/mL	1399469	102
46)	2Nitroaniline	7.26	21.37	ug/mL	342023	107
47)	Acnaphthylene	7.47	20.40	ug/mL	2396062	102
48)	Dimethylphtha	7.39	20.72	ug/mL	1669221	104
49)	26Dinitrotolu	7.44	20.75	ug/mL	361639	104
50)	Acenaphthene	7.59	20.46	ug/mL	1510830	102
51)	3Nitroaniline	7.55	20.46	ug/mL	381575	102
52)	24Dinitphenol	7.62	19.28	ug/mL	197921	96
53)	Dibenzofuran	7.71	20.51	ug/mL	1970486	103
54)	24Dinitrotolu	7.70	21.24	ug/mL	458050	106
55)	4-Nitrophenol	7.66	20.26	ug/mL	121054	101
56)	2,3,5,6-Tetrachlorop	7.76	20.04	ug/mL	336963	100
57)	2,3,4,6-Tetrachlorop	7.79	20.21	ug/mL	356592	101
58)	Fluorene	7.93	19.88	ug/mL	1540116	99
59)	4Clphlphlethr	7.93	20.32	ug/mL	700096	102
60)	Diethylphthal	7.86	20.43	ug/mL	1661023	102
61)	4Nitroaniline	7.95	20.61	ug/mL	377184	103
62)	SURR246Tribrphenl	8.09	49.83	%REC	178781	100
63)	Phenanthrd10	8.47	20.00	ug/mL	1773794	ISTD
64)	46Dinit2mylph	7.97	20.62	ug/mL	265029	103
65)	Ntrsdiphlam&Diphlam	8.01	39.94	ug/mL	2104433	100
66)	Azobenz&12Diphlhyd	8.03	40.10	ug/mL	798212	100
67)	4Brphlphlethr	8.24	20.77	ug/mL	399717	104
68)	Hexaclbenzene	8.27	19.63	ug/mL	391868	98
69)	Pentaclphenol	8.37	19.57	ug/mL	193685	98
70)	Phenanthrene	8.48	19.96	ug/mL	1877265	100
71)	Anthracene	8.50	20.09	ug/mL	1915421	100
72)	Carbazole	8.57	20.40	ug/mL	1648165	102
73)	Dinbtylphthal	8.72	20.80	ug/mL	2269136	104
74)	Fluoranthene	9.08	20.34	ug/mL	1930797	102
75)	Chrysene-d12	9.94	20.00	ug/mL	1627497	ISTD
76)	Benzidine	9.14	18.70	ug/mL	453500	93
77)	Pyrene	9.20	20.48	ug/mL	1987987	102
78)	SURRTerphenyl-d14	9.28	100.32	ug/mL	1185961	100
79)	Btylbzylphth	9.55	20.69	ug/mL	976210	103
80)	33Diclbnzidin	9.90	19.49	ug/mL	364533	97
81)	B[a]anthracen	9.93	20.33	ug/mL	1839795	102
82)	Chrysene	9.95	20.18	ug/mL	1749702	101
83)	bis2Ethlhxlph	9.91	20.88	ug/mL	1432229	104
84)	Dinoctylphthl	10.33	20.70	ug/mL	2522263	103
85)	Perylene-d12	10.91	20.00	ug/mL	1429018	ISTD
86)	B[b]fluoranth	10.63	19.37	ug/mL	1630216	97
87)	B[k]fluoranth	10.65	21.48	ug/mL	1707615	107

88) Benz[a]pyrene	10.86	20.47	ug/mL	1572560	102
89) Indeno-pyrene	11.79	21.05	ug/mL	1642269	105
90) Dib[ah]anthr	11.80	21.35	ug/mL	1351643	107
91) B[ghi]perylen	12.05	21.14	ug/mL	1369556	106

(#) = recovery out of range Average Percent Recovery = 101

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICV2.D Vial: 10
Acq On : 2 Dec 2010 14:30 Operator: RPN
Sample : ICV 2 40ug/ml SVMS4687 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 16:39:15 2010

RPN
12/02/10

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 14:33:20 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.428	152	460930	20.00	ug/mL	0.00
21) Naphthalened8	6.073	136	2153787	20.00	ug/mL	0.00
39) Acenaphthened10	7.577	164	1135107	20.00	ug/mL	0.00
63) Phenanthrd10	8.469	188	1618718	20.00	ug/mL	0.00
75) Chrysene-d12	9.943	240	1507777	20.00	ug/mL	0.00
85) Perylene-d12	10.910	264	1249255	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	3.161	112	1166774	101.68	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery = 101.68%			
7) SURRPhenol-d5	3.999	99	1394275	101.15	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 101.15%			
22) SURRNitrbenzened5	5.133	82	1068669	205.61	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 205.61%#			
44) SURR2Flbiphenyl	7.091	172	2951732	198.75	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 198.75%#			
62) SURR246Tribrphenl	8.097	330	354605	103.32	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 103.32%			
78) SURRTerphenyl-d14	9.281	244	2206227	201.45	ug/mL	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 201.45%#			
Target Compounds						Qvalue
2) Ntrsdimeth	2.374	74	664788	40.6180	ug/mL	84
3) Pyridine	2.394	79	1235324	42.4840	ug/mL	97
5) Aniline	4.064	93	1814730	40.8435	ug/mL	90
6) bis2Clethletr	4.130	93	1113709	40.3828	ug/mL	99
8) Phenol	4.013	94	1403436	41.3093	ug/mL	86
9) 2-Cl-phenol	4.184	128	1250395	40.4084	ug/mL	97
10) 13Diclbenz	4.363	146	1436706	40.1953	ug/mL	96
11) 14Diclbenz	4.448	146	1442886	39.7297	ug/mL	100
12) 12Diclbenz	4.627	146	1377370	39.9725	ug/mL	93
13) Benzyl alcoho	4.596	108	717758	40.9407	ug/mL	80
14) bis2clispreth	4.772	45	2124498	40.4450	ug/mL	97
15) 2Methylphenol	4.727	108	1081229	41.6197	ug/mL	97
16) Ntrspyrrol	4.923	100	565608	41.1926	ug/mL	87
17) Acetophenone	4.937	105	1566911	40.4209	ug/mL	85
18) Hexaclethane	5.053	117	483015	39.8698	ug/mL	97
19) N-Ntrsdinprop	4.948	70	718563	41.4143	ug/mL	98
20) 3&4Methylphenol	4.942	108	1057933	40.8326	ug/mL	98
23) Nitrobenzene	5.161	77	1096206	41.2856	ug/mL	83
24) Isophorone	5.519	82	2469952	42.1443	ug/mL	94
25) 2-Nitrophenol	5.613	139	822291	41.4190	ug/mL	77
26) 24Dimthpheno	5.690	107	1242150	41.2886	ug/mL	89
27) bis2clethoxym	5.821	93	1623808	40.1869	ug/mL	88
28) 24Diclphenol	5.920	162	1190417	42.3764	ug/mL	97
29) 124Triclbenz	6.011	180	1383841	39.7875	ug/mL	99
30) Benzoic acid	5.863	105	910774	41.0655	ug/mL	87
31) Naphthalene	6.096	128	4445134	40.4398	ug/mL	100
32) 4-Cl-aniline	6.173	127	1694270	41.0908	ug/mL	94
33) 26Diclphenol	6.173	162	976545	38.3921	ug/mL	94
34) Hexaclprop	6.193	213	758242	42.3918	ug/mL	99
35) Hexaclbutdien	6.235	225	646454	39.5315	ug/mL	96
36) 4Cl3methylphe	6.664	107	1142047	42.5046	ug/mL	86
37) 2Methylnaphth	6.781	141	2450821	39.9432	ug/mL	97
38) 1Methylnaphth	6.863	141	2567736	40.3204	ug/mL	99
40) Hxclcycpentdi	6.912	237	783112	40.7503	ug/mL	99

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICV2.D Vial: 10
Acq On : 2 Dec 2010 14:30 Operator: RPN
Sample : ICV 2 40ug/ml SVMS4687 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 16:39:15 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 14:33:20 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

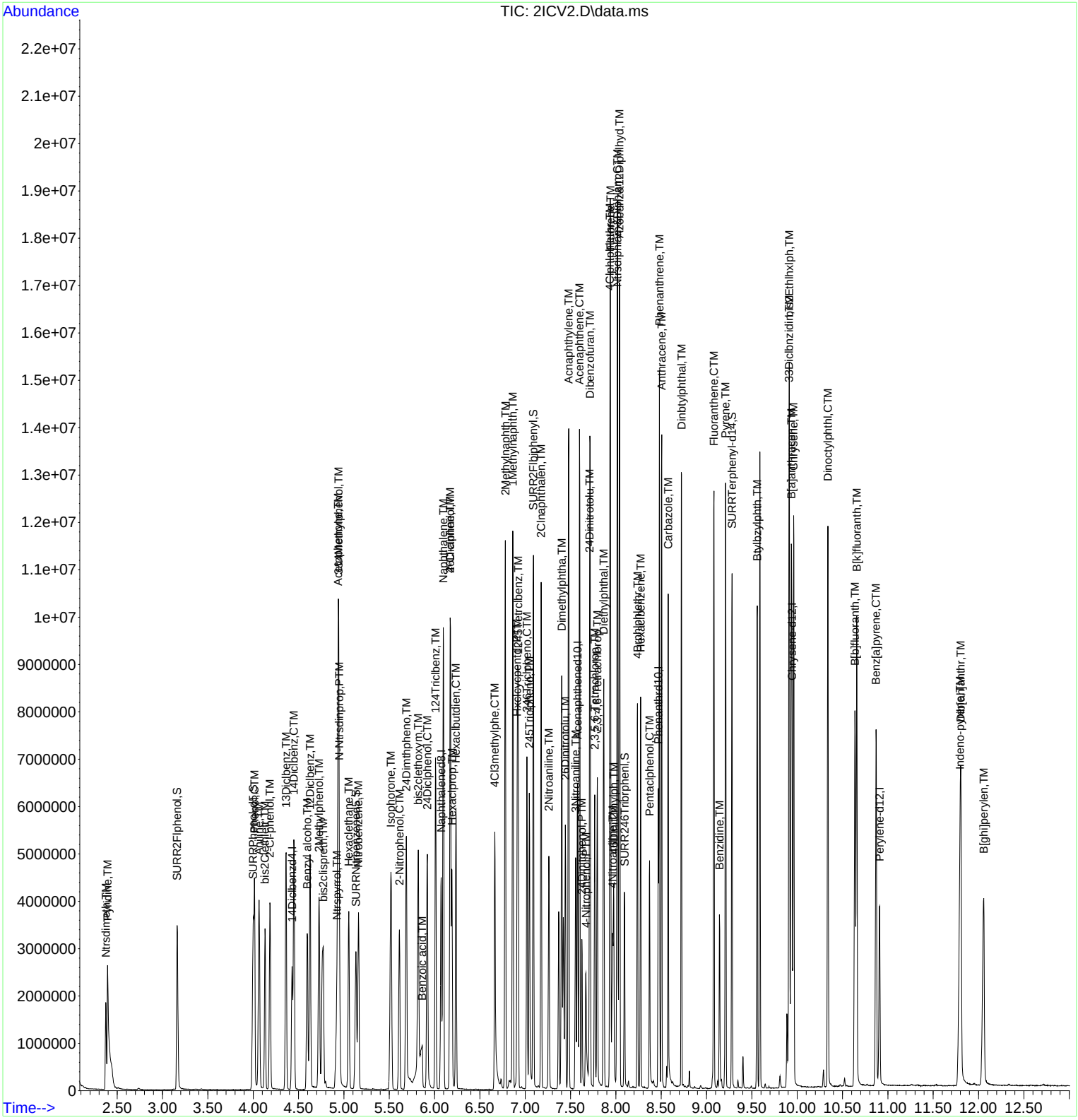
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	6.923	216	1230708	40.7063 ug/mL	97
42) 246Triclpheno	7.020	196	840950	42.2274 ug/mL	94
43) 245Triclpheno	7.045	196	889615	42.0580 ug/mL	95
45) 2Clnaphthalen	7.176	162	2642894	40.3054 ug/mL	99
46) 2Nitroaniline	7.261	65	623385	40.7148 ug/mL#	67
47) Acnaphthylene	7.480	152	4405978	39.2200 ug/mL	98
48) Dimethylphtha	7.403	163	3131184	40.6348 ug/mL	99
49) 26Dinitrotolu	7.443	165	684972	41.0957 ug/mL	87
50) Acenaphthene	7.599	153	2799154	39.6319 ug/mL	99
51) 3Nitroaniline	7.557	138	758033	42.4928 ug/mL	89
52) 24Dinitphenol	7.625	184	413039	39.2271 ug/mL	74
53) Dibenzofuran	7.716	168	3543587	38.5596 ug/mL	97
54) 24Dinitrotolu	7.710	165	821489	39.8143 ug/mL	88
55) 4-Nitrophenol	7.670	109	227430	39.7835 ug/mL	85
56) 2,3,5,6-Tetrachlorop	7.767	232	642754	39.6050 ug/mL	99
57) 2,3,4,6-Tetrachlorop	7.795	232	686307	40.6013 ug/mL	96
58) Fluorene	7.940	166	2798426	37.7648 ug/mL	100
59) 4Clphlphlethr	7.935	204	1267047	38.4399 ug/mL	99
60) Diethylphthal	7.866	149	3106295	39.9379 ug/mL	99
61) 4Nitroaniline	7.963	138	727969	41.5808 ug/mL#	74
64) 46Dinit2mylph	7.977	198	502262	42.8195 ug/mL	89
65) Ntrsdiphlam&Diphlam	8.017	169	3850327	80.0814 ug/mL	99
66) Azobenz&12Diphlhyd	8.040	182	1449083	79.7781 ug/mL#	76
67) 4Brphlphlethr	8.239	248	725570	41.3065 ug/mL	88
68) Hexaclbenzene	8.273	284	732612	40.2093 ug/mL	95
69) Pentaclphenol	8.372	266	380648	38.4781 ug/mL	99
70) Phenanthrene	8.480	178	3426022	39.9157 ug/mL	99
71) Anthracene	8.506	178	3532977	40.6001 ug/mL	97
72) Carbazole	8.577	167	2956076	40.0993 ug/mL	97
73) Dinbtylphthal	8.724	149	4245094	42.6499 ug/mL	99
74) Fluoranthene	9.082	202	3623687	41.8372 ug/mL	96
76) Benzidine	9.142	184	1040090	40.4033 ug/mL	98
77) Pyrene	9.210	202	3680904	40.9380 ug/mL	94
79) Btylbzylphth	9.560	149	1839525	42.0763 ug/mL	86
80) 33Diclbnzidin	9.909	252	792827	42.3186 ug/mL	97
81) B[a]anthracen	9.935	228	3412465	40.6954 ug/mL	99
82) Chrysene	9.960	228	3323428	41.3661 ug/mL	98
83) bis2Ethlhxlph	9.912	149	2639870	41.5466 ug/mL	100
84) Dinoctylphthl	10.338	149	4721743	41.8227 ug/mL	100
86) B[b]fluoranth	10.637	252	2990240	40.6362 ug/mL	97
87) B[k]fluoranth	10.657	252	3088472	44.4336 ug/mL	98
88) Benz[a]pyrene	10.870	252	2826166	42.0791 ug/mL	97
89) Indeno-pyrene	11.796	276	2744039	40.2370 ug/mL	90
90) Dib[ah]anthr	11.805	278	2243434	40.5444 ug/mL	98
91) B[ghi]perylen	12.057	276	2247664	39.6790 ug/mL	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICV2.D Vial: 10
Acq On : 2 Dec 2010 14:30 Operator: RPN
Sample : ICV 2 40ug/ml SVMS4687 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 16:39:15 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 14:33:20 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M



Initial Calibration Verification Report

Data File Name	2ICV2.D
Data File Path	C:\INSTARCH\DATA\2S120210B\
Operator	RPN
Date Acquired	12/2/2010 14:30
Acq. Method File	2S120210.M
Sample Name	ICV 2 40ug/ml SVMS4687
Misc Info	500uL+5uL IS S2263B
Vial Number	10
Instrument Name	SVMS2
Sample Multiplier	1

#	Name	Ret Time	Amount	Units	Response	70-130 %REC
1)	14Diclbenzd4	4.43	20.00	ug/mL	460930	ISTD
2)	Ntrsdimeth	2.37	40.62	ug/mL	664788	102
3)	Pyridine	2.39	42.48	ug/mL	1235324	106
4)	SURR2Flphenol	3.16	101.68	%REC	1166774	102
5)	Aniline	4.06	40.84	ug/mL	1814730	102
6)	bis2Clethletr	4.13	40.38	ug/mL	1113709	101
7)	SURRPhenol-d5	4.00	101.15	%REC	1394275	101
8)	Phenol	4.01	41.31	ug/mL	1403436	103
9)	2-Cl-phenol	4.18	40.41	ug/mL	1250395	101
10)	13Diclbenz	4.36	40.20	ug/mL	1436706	100
11)	14Diclbenz	4.45	39.73	ug/mL	1442886	99
12)	12Diclbenz	4.63	39.97	ug/mL	1377370	100
13)	Benzyl alcoho	4.60	40.94	ug/mL	717758	102
14)	bis2clispreth	4.77	40.44	ug/mL	2124498	101
15)	2Methylphenol	4.73	41.62	ug/mL	1081229	104
16)	Ntrspyrrol	4.92	41.19	ug/mL	565608	103
17)	Acetophenone	4.94	40.42	ug/mL	1566911	101
18)	Hexaclethane	5.05	39.87	ug/mL	483015	100
19)	N-Ntrsdinprop	4.95	41.41	ug/mL	718563	104
20)	3&4Methylphenol	4.94	40.83	ug/mL	1057933	102
21)	Naphthalened8	6.07	20.00	ug/mL	2153787	ISTD
22)	SURRNitrbenzened5	5.13	205.61	%REC	1068669	103
23)	Nitrobenzene	5.16	41.29	ug/mL	1096206	103
24)	Isophorone	5.52	42.14	ug/mL	2469952	105
25)	2-Nitrophenol	5.61	41.42	ug/mL	822291	104
26)	24Dimthpheno	5.69	41.29	ug/mL	1242150	103
27)	bis2clethoxym	5.82	40.19	ug/mL	1623808	100
28)	24Diclphenol	5.92	42.38	ug/mL	1190417	106
29)	124Triclbenz	6.01	39.79	ug/mL	1383841	99
30)	Benzoic acid	5.86	41.07	ug/mL	910774	103
31)	Naphthalene	6.10	40.44	ug/mL	4445134	101
32)	4-Cl-aniline	6.17	41.09	ug/mL	1694270	103
33)	26Diclphenol	6.17	38.39	ug/mL	976545	96
34)	Hexaclprop	6.19	42.39	ug/mL	758242	106
35)	Hexaclbutdien	6.24	39.53	ug/mL	646454	99
36)	4Cl3methylphe	6.66	42.50	ug/mL	1142047	106
37)	2Methylnaphth	6.78	39.94	ug/mL	2450821	100

38)	1Methylnaphth	6.86	40.32	ug/mL	2567736	101
39)	Acenaphthened10	7.58	20.00	ug/mL	1135107	ISTD
40)	Hxclcycpentdi	6.91	40.75	ug/mL	783112	102
41)	1245Tetrclbenz	6.92	40.71	ug/mL	1230708	102
42)	246Triclpheno	7.02	42.23	ug/mL	840950	106
43)	245Triclpheno	7.05	42.06	ug/mL	889615	105
44)	SURR2Flbiphenyl	7.09	198.75	%REC	2951732	99
45)	2Clnaphthalen	7.18	40.31	ug/mL	2642894	101
46)	2Nitroaniline	7.26	40.71	ug/mL	623385	102
47)	Acnaphthylene	7.48	39.22	ug/mL	4405978	98
48)	Dimethylphtha	7.40	40.63	ug/mL	3131184	102
49)	26Dinitrotolu	7.44	41.10	ug/mL	684972	103
50)	Acenaphthene	7.60	39.63	ug/mL	2799154	99
51)	3Nitroaniline	7.56	42.49	ug/mL	758033	106
52)	24Dinitphenol	7.62	39.23	ug/mL	413039	98
53)	Dibenzofuran	7.72	38.56	ug/mL	3543587	96
54)	24Dinitrotolu	7.71	39.81	ug/mL	821489	100
55)	4-Nitrophenol	7.67	39.78	ug/mL	227430	99
56)	2,3,5,6-Tetrachlorop	7.77	39.61	ug/mL	642754	99
57)	2,3,4,6-Tetrachlorop	7.80	40.60	ug/mL	686307	102
58)	Fluorene	7.94	37.76	ug/mL	2798426	94
59)	4Clphlphlethr	7.93	38.44	ug/mL	1267047	96
60)	Diethylphthal	7.87	39.94	ug/mL	3106295	100
61)	4Nitroaniline	7.96	41.58	ug/mL	727969	104
62)	SURR246Tribrphenl	8.10	103.32	%REC	354605	103
63)	Phenanthrd10	8.47	20.00	ug/mL	1618718	ISTD
64)	46Dinit2mylph	7.98	42.82	ug/mL	502262	107
65)	Ntrsdiphlam&Diphlam	8.02	80.08	ug/mL	3850327	100
66)	Azobenz&12Diphlhyd	8.04	79.78	ug/mL	1449083	100
67)	4Brphlphlethr	8.24	41.31	ug/mL	725570	103
68)	Hexaclbenzene	8.27	40.21	ug/mL	732612	101
69)	Pentaclphenol	8.37	38.48	ug/mL	380648	96
70)	Phenanthrene	8.48	39.92	ug/mL	3426022	100
71)	Anthracene	8.51	40.60	ug/mL	3532977	102
72)	Carbazole	8.58	40.10	ug/mL	2956076	100
73)	Dinbtylphthal	8.72	42.65	ug/mL	4245094	107
74)	Fluoranthene	9.08	41.84	ug/mL	3623687	105
75)	Chrysene-d12	9.94	20.00	ug/mL	1507777	ISTD
76)	Benzidine	9.14	40.40	ug/mL	1040090	101
77)	Pyrene	9.21	40.94	ug/mL	3680904	102
78)	SURRTerphenyl-d14	9.28	201.45	ug/mL	2206227	101
79)	Btylbzylphth	9.56	42.08	ug/mL	1839525	105
80)	33Diclbnzidin	9.91	42.32	ug/mL	792827	106
81)	B[a]anthracen	9.93	40.70	ug/mL	3412465	102
82)	Chrysene	9.96	41.37	ug/mL	3323428	103
83)	bis2Ethlhxlph	9.91	41.55	ug/mL	2639870	104
84)	Dinoctylphthl	10.34	41.82	ug/mL	4721743	105
85)	Perylene-d12	10.91	20.00	ug/mL	1249255	ISTD
86)	B[b]fluoranth	10.64	40.64	ug/mL	2990240	102
87)	B[k]fluoranth	10.66	44.43	ug/mL	3088472	111

88) Benz[a]pyrene	10.87	42.08	ug/mL	2826166	105
89) Indeno-pyrene	11.80	40.24	ug/mL	2744039	101
90) Dib[ah]anthr	11.80	40.54	ug/mL	2243434	101
91) B[ghi]perylen	12.06	39.68	ug/mL	2247664	99

(#) = recovery out of range Average Percent Recovery = 102

SEMI - VOLATILE ORGANIC ANALYSIS
CONTINUING CALIBRATION
DOCUMENTS

QC Check Standard Report

Sequence : C:\Instarch\Sequence\HPLC 2\8330A_B\121310exp-primary.seq
User : red
Printed : Dec 23, 2010 14:55:22

RED
12/30/2010

File	Sample ID	Acquired
C:\Instarch\Data\HPLC 2\8330A_B\121310exp-primary\002.dat	8330 CCV EXP 4128	Dec 23, 2010 14:55:22

A

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
HMX	0.500	0.504	0.805	20.000	Passed
RDX	0.500	0.519	3.757	20.000	Passed
12-DNB (SSTD)	100.000	101.490	1.490	20.000	Passed
135-TNB	0.500	0.505	0.911	20.000	Passed
13-DNB	0.500	0.512	2.380	20.000	Passed
TETRYL	0.500	0.475	5.004	20.000	Passed
35-DNA	0.500	0.548	9.511	20.000	Passed
NB	0.500	0.509	1.755	20.000	Passed
246-TNT	0.500	0.524	4.786	20.000	Passed
4-AM-26-DNT	0.500	0.457	8.540	20.000	Passed
2-AM-46-DNT	0.500	0.511	2.277	20.000	Passed
2-NT	0.500	0.497	0.654	20.000	Passed
4-NT	0.500	0.512	2.485	20.000	Passed
3-NT	0.500	0.518	3.592	20.000	Passed

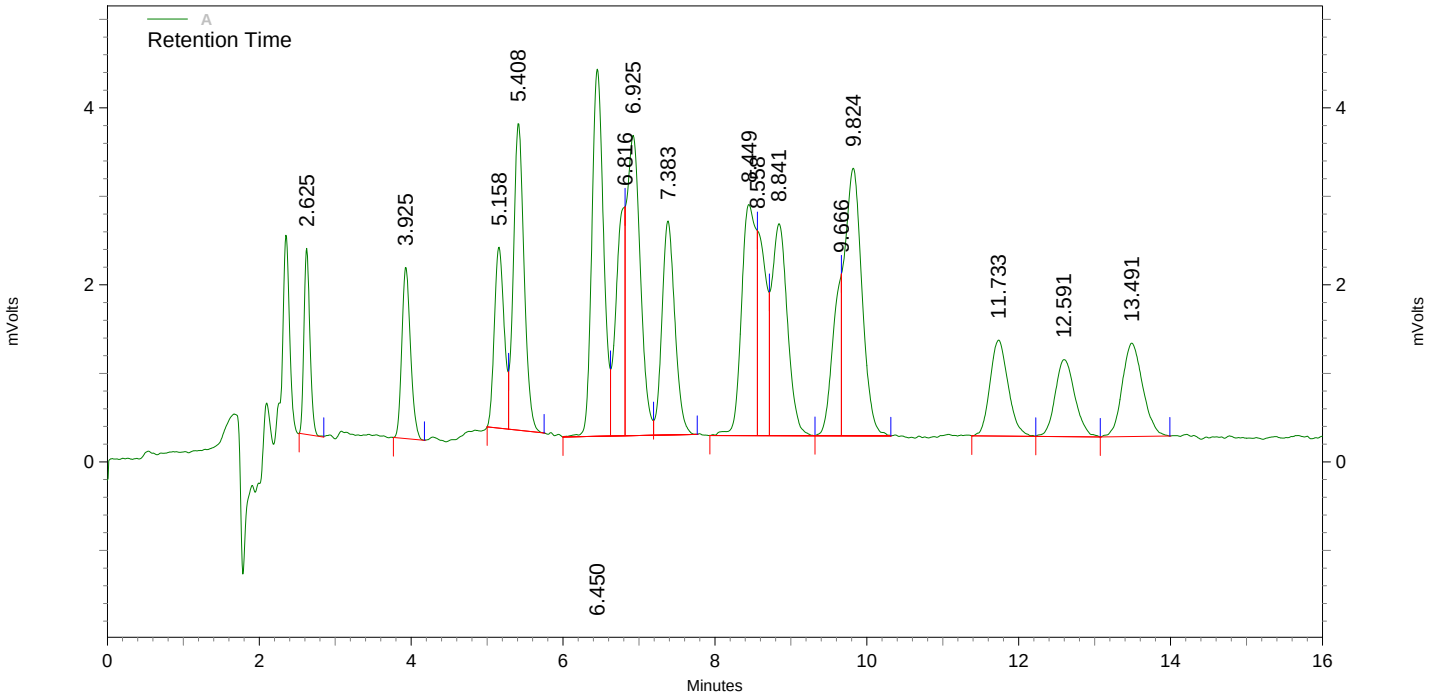
B

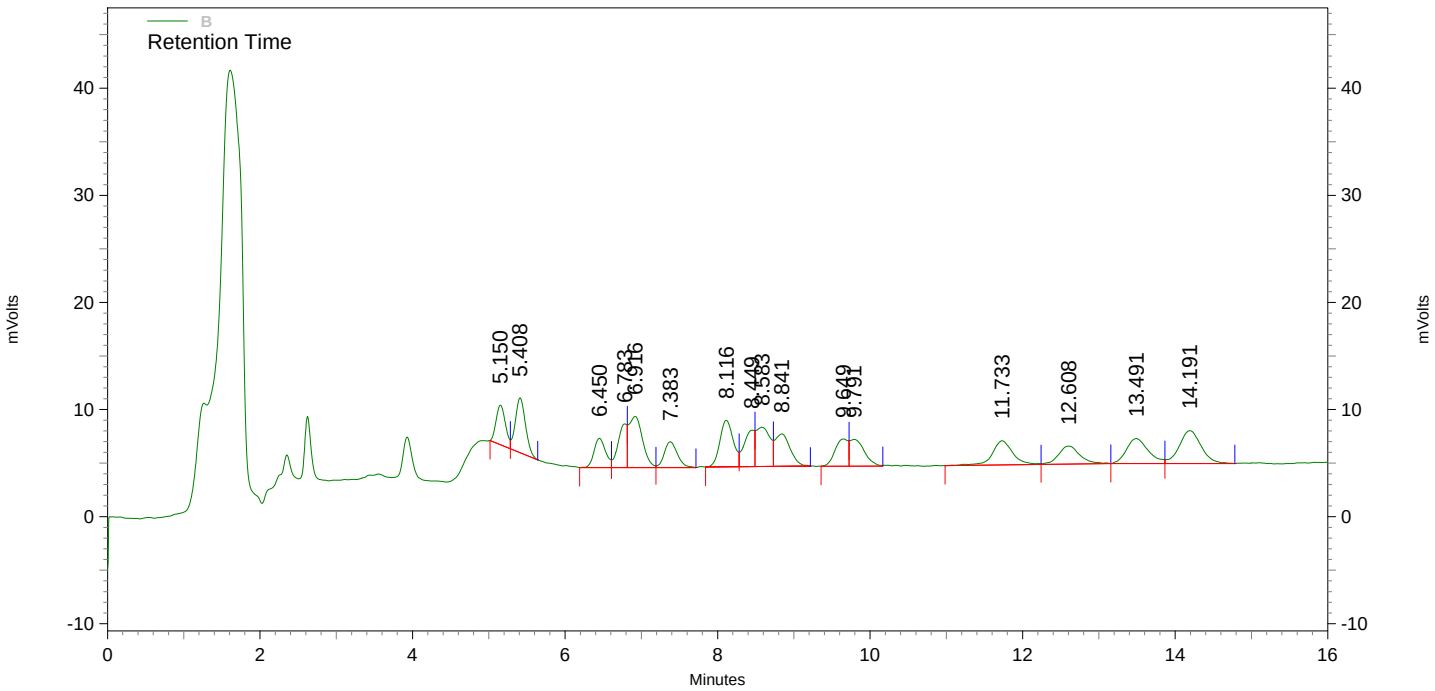
Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
NG	2.000	1.977	1.139	20.000	Passed
26-DNT	0.500	0.443	11.426	20.000	Passed
24-DNT	0.500	0.542	8.495	20.000	Passed
PETN	2.000	2.044	2.180	20.000	Passed

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\8330A_B\121310exp-primary\002.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\121310exp-primary.met
Sample ID: 8330 CCV EXP 4128
Acquired: Dec 14, 2010 09:34:48
Data Summary: {Data Description}





RED
12/30/2010

A Results

Name	*Retention Time*	*Area*	*concentrati*
HMX	2.625	11579	**0.504**
RDX	3.925	15445	**0.519**
12-DNB (SSTD)	5.158	18333	**101.490**
135-TNB	5.408	33949	**0.505**
13-DNB	6.450	44483	**0.512**
TETRYL	6.816	20825	**0.475**
35-DNA	6.925	42214	**0.548**
NB	7.383	28791	**0.509**
246-TNT	8.449	34151	**0.524**
4-AM-26-DNT	8.558	18907	**0.457**
2-AM-46-DNT	8.841	34346	**0.511**
2-NT	11.733	18007	**0.497**
4-NT	12.591	15650	**0.512**
3-NT	13.491	19827	**0.518**

B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG	8.116	53084	**1.977**
26-DNT	9.649	30148	**0.443**
24-DNT	9.791	33042	**0.542**
PETN	14.191	61491	**2.044**

QC Check Standard Report

Sequence : C:\Instarch\Sequence\HPLC 2\8330A_B\121310exp-primary.seq
User : red
Printed : Dec 23, 2010 14:55:43

RED
12/30/2010

File	Sample ID	Acquired
C:\Instarch\Data\HPLC 2\8330A_B\121310exp-primary\013.dat	8330 CCV EXP 4128	Dec 23, 2010 14:55:43

A

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
HMX	0.500	0.487	2.512	20.000	Passed
RDX	0.500	0.508	1.578	20.000	Passed
12-DNB (SSTD)	100.000	100.754	0.754	20.000	Passed
135-TNB	0.500	0.501	0.149	20.000	Passed
13-DNB	0.500	0.510	2.003	20.000	Passed
TETRYL	0.500	0.484	3.292	20.000	Passed
35-DNA	0.500	0.522	4.415	20.000	Passed
NB	0.500	0.500	0.047	20.000	Passed
246-TNT	0.500	0.538	7.667	20.000	Passed
4-AM-26-DNT	0.500	0.414	17.241	20.000	Passed
2-AM-46-DNT	0.500	0.492	1.683	20.000	Passed
2-NT	0.500	0.460	8.040	20.000	Passed
4-NT	0.500	0.463	7.450	20.000	Passed
3-NT	0.500	0.519	3.816	20.000	Passed

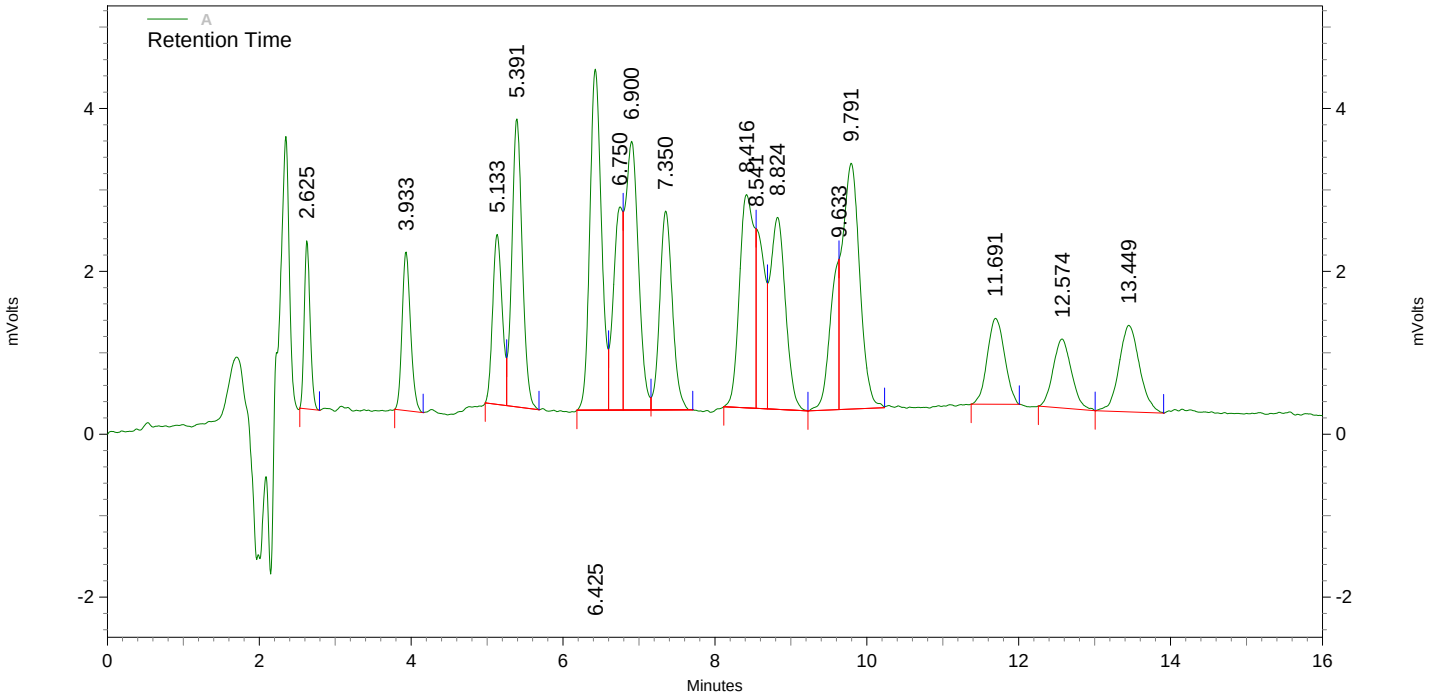
B

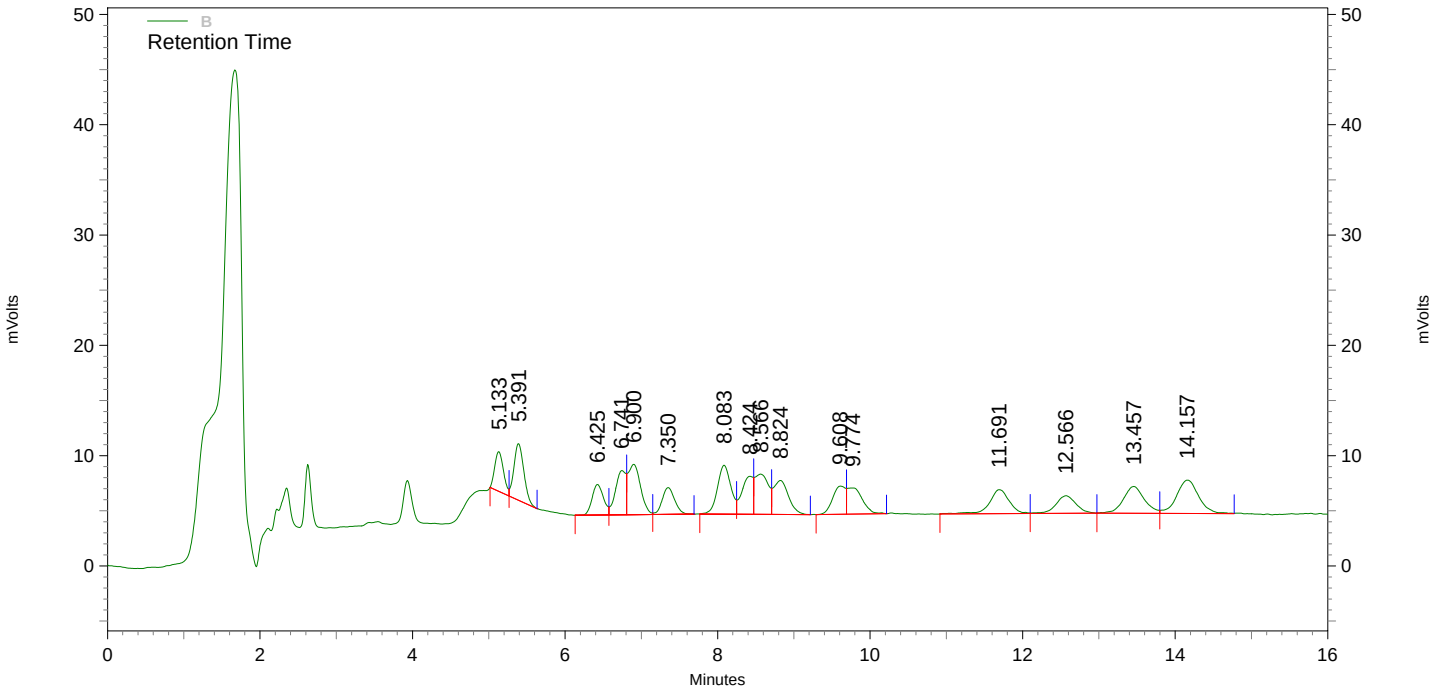
Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
NG	2.000	2.018	0.899	20.000	Passed
26-DNT	0.500	0.441	11.869	20.000	Passed
24-DNT	0.500	0.539	7.737	20.000	Passed
PETN	2.000	2.034	1.698	20.000	Passed

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\8330A_B\121310exp-primary\013.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\121310exp-primary.met
Sample ID: 8330 CCV EXP 4128
Acquired: Dec 14, 2010 13:49:59
Data Summary: {Data Description}





RED

12/30/2010

A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX	2.625	11205	**0.487**
RDX	3.933	15131	**0.508**
12-DNB (SSTD)	5.133	18204	**100.754**
135-TNB	5.391	33697	**0.501**
13-DNB	6.425	44323	**0.510**
TETRYL	6.750	21177	**0.484**
35-DNA	6.900	40236	**0.522**
NB	7.350	28287	**0.500**
246-TNT	8.416	35066	**0.538**
4-AM-26-DNT	8.541	17214	**0.414**
2-AM-46-DNT	8.824	33059	**0.492**
2-NT	11.691	16725	**0.460**
4-NT	12.574	14215	**0.463**
3-NT	13.449	19868	**0.519**

B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG	8.083	54130	**2.018**
26-DNT	9.608	30003	**0.441**
24-DNT	9.774	32824	**0.539**
PETN	14.157	61215	**2.034**

QC Check Standard Report

Sequence : C:\Instarch\Sequence\HPLC 2\8330A_B\121310exp-primary.seq
User : red
Printed : Dec 23, 2010 14:56:07

RED
12/30/2010

File	Sample ID	Acquired
C:\Instarch\Data\HPLC 2\8330A_B\121310exp-primary\025.dat	8330 CCV EXP 4128	Dec 23, 2010 14:56:07

A

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
HMX	0.500	0.479	4.188	20.000	Passed
RDX	0.500	0.489	2.170	20.000	Passed
12-DNB (SSTD)	100.000	99.926	0.074	20.000	Passed
135-TNB	0.500	0.487	2.617	20.000	Passed
13-DNB	0.500	0.503	0.621	20.000	Passed
TETRYL	0.500	0.484	3.204	20.000	Passed
35-DNA	0.500	0.515	2.967	20.000	Passed
NB	0.500	0.498	0.487	20.000	Passed
246-TNT	0.500	0.542	8.357	20.000	Passed
4-AM-26-DNT	0.500	0.445	11.058	20.000	Passed
2-AM-46-DNT	0.500	0.470	5.987	20.000	Passed
2-NT	0.500	0.495	1.080	20.000	Passed
4-NT	0.500	0.481	3.829	20.000	Passed
3-NT	0.500	0.501	0.274	20.000	Passed

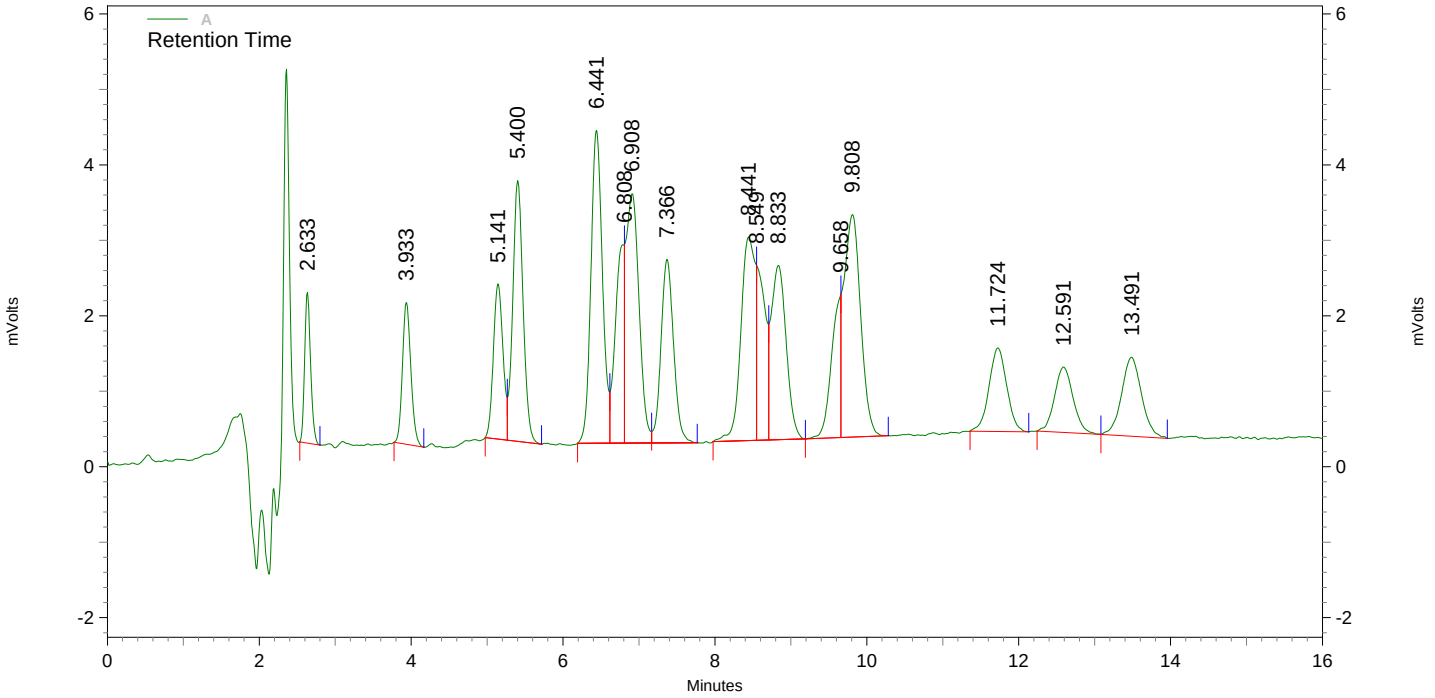
B

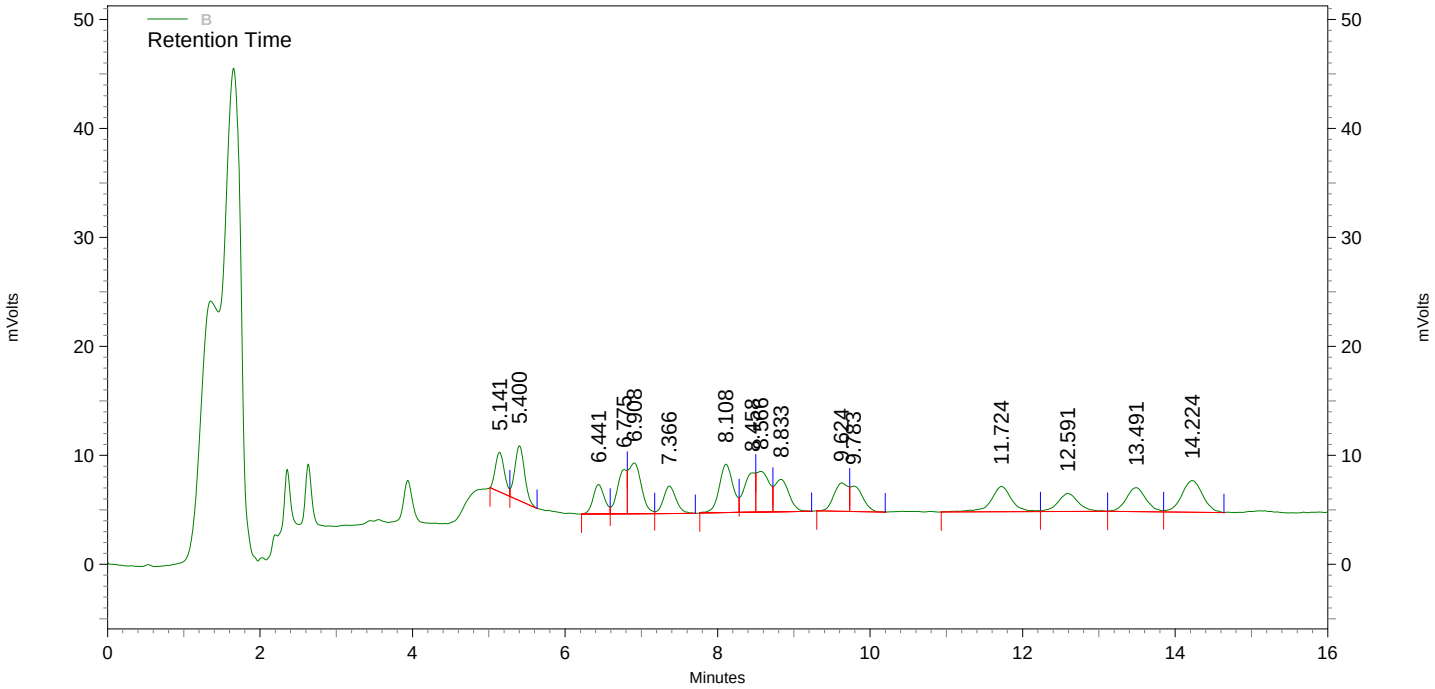
Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
NG	2.000	2.085	4.264	20.000	Passed
26-DNT	0.500	0.497	0.640	20.000	Passed
24-DNT	0.500	0.431	13.864	20.000	Passed
PETN	2.000	1.838	8.105	20.000	Passed

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\8330A_B\121310exp-primary\025.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\121310exp-primary.met
Sample ID: 8330 CCV EXP 4128
Acquired: Dec 14, 2010 19:46:14
Data Summary: {Data Description}





A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX	2.633	11016	**0.479**
RDX	3.933	14591	**0.489**
12-DNB (SSTD)	5.141	18059	**99.926**
135-TNB	5.400	32782	**0.487**
13-DNB	6.441	43738	**0.503**
TETRYL	6.808	21195	**0.484**
35-DNA	6.908	39674	**0.515**
NB	7.366	28164	**0.498**
246-TNT	8.441	35285	**0.542**
4-AM-26-DNT	8.549	18417	**0.445**
2-AM-46-DNT	8.833	31660	**0.470**
2-NT	11.724	17933	**0.495**
4-NT	12.591	14738	**0.481**
3-NT	13.491	19220	**0.501**

B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG	8.108	55857	**2.085**
26-DNT	9.624	33679	**0.497**
24-DNT	9.783	26609	**0.431**
PETN	14.224	55605	**1.838**

QC Check Standard Report

Sequence : C:\Instarch\Sequence\HPLC 2\NQ\121610NQ-primary.seq
User : red
Printed : Dec 23, 2010 14:58:06

RED
12/30/2010

File	Sample ID	Acquired
C:\Instarch\Data\HPLC 2\NQ\121610NQ-primary\002.dat	NQ CCV EXP 4134	Dec 23, 2010 14:58:06

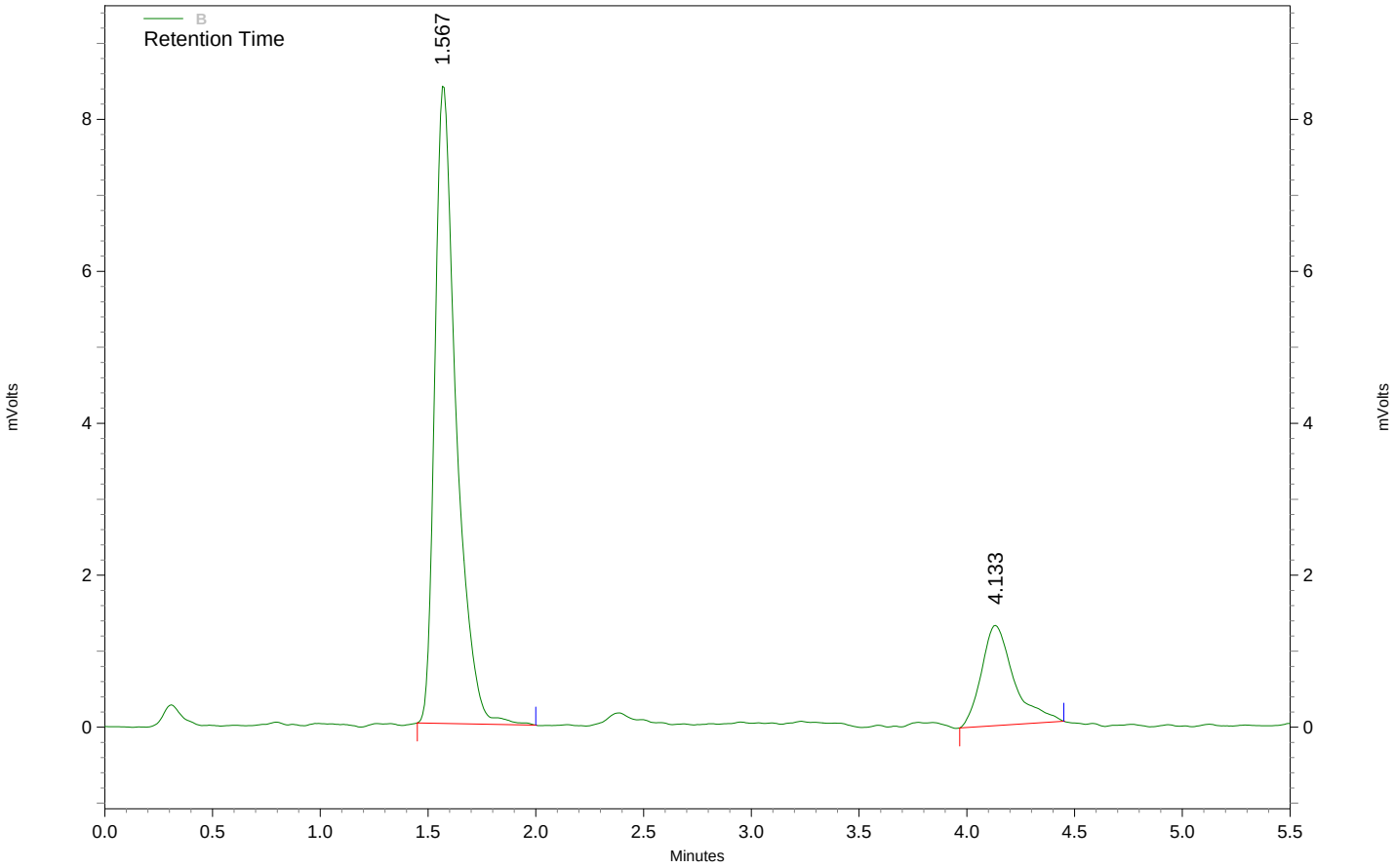
B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
NQ	0.500	0.481	3.734	20.000	**Passed**
12-DNB (SSTD)	100.000	102.670	2.670	20.000	**Passed**

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121610NQ-primary\002.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121610NQ-primary.met
Sample ID: NQ CCV EXP 4134
Acquired: Dec 16, 2010 08:43:52
Data Summary: {Data Description}



B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.567	58086	**0.481**
12-DNB (SSTD)	4.133	13821	**102.670**

QC Check Standard Report

Sequence : C:\Instarch\Sequence\HPLC 2\NQ\121610NQ-primary.seq
User : red
Printed : Dec 23, 2010 14:58:28

RED
12/30/2010

File	Sample ID	Acquired
C:\Instarch\Data\HPLC 2\NQ\121610NQ-primary\013.dat	NQ CCV EXP 4134	Dec 23, 2010 14:58:28

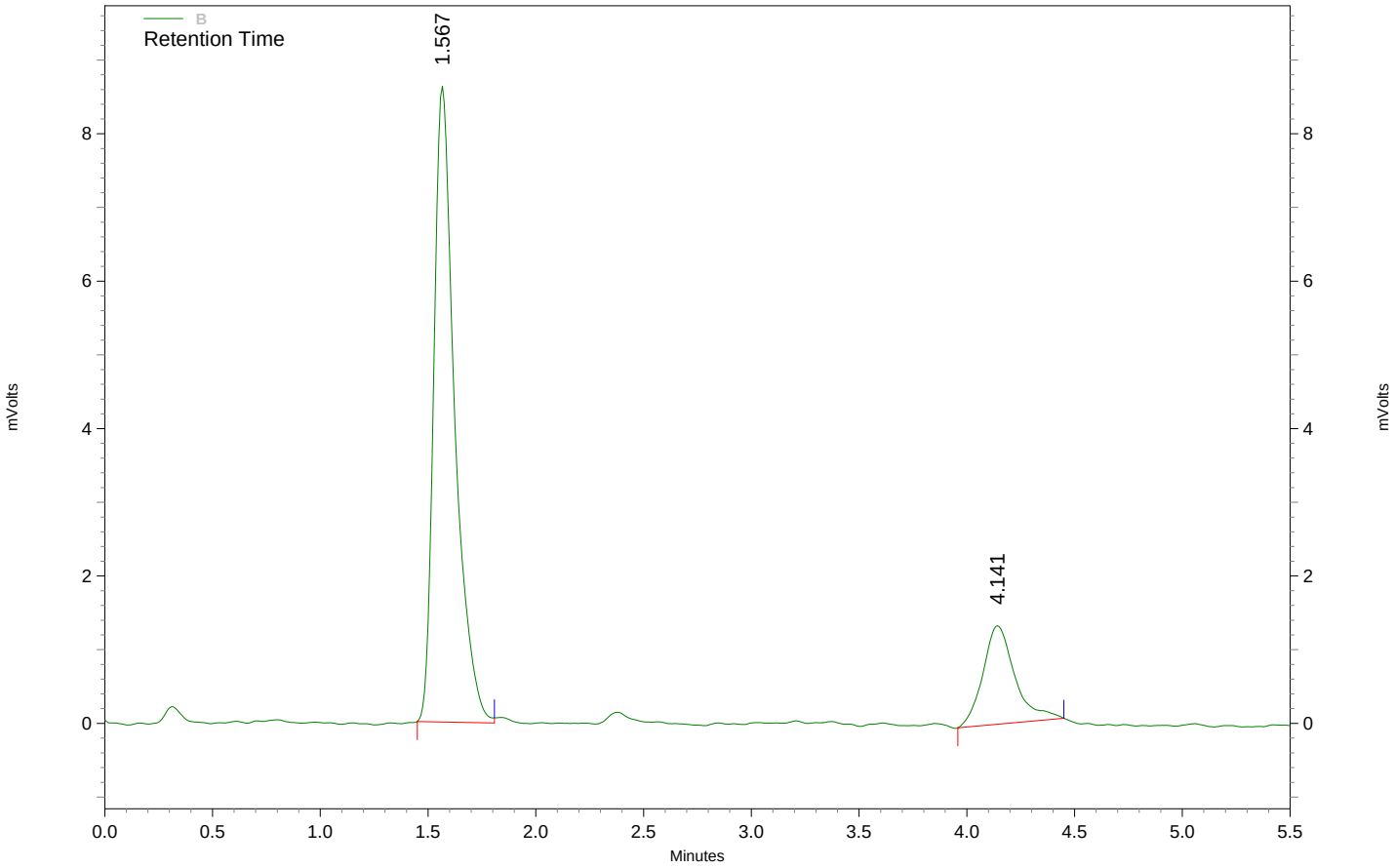
B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
NQ	0.500	0.483	3.474	20.000	**Passed**
12-DNB (SSTD)	100.000	102.292	2.292	20.000	**Passed**

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121610NQ-primary\013.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121610NQ-primary.met
Sample ID: NQ CCV EXP 4134
Acquired: Dec 16, 2010 10:58:11
Data Summary: {Data Description}



B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.567	58239	**0.483**
12-DNB (SSTD)	4.141	13770	**102.292**

QC Check Standard Report

Sequence : C:\Instarch\Sequence\HPLC 2\NQ\121610NQ-primary.seq
User : red
Printed : Dec 23, 2010 14:58:52

RED
12/30/2010

File	Sample ID	Acquired
C:\Instarch\Data\HPLC 2\NQ\121610NQ-primary\024.dat	NQ CCV EXP 4134	Dec 23, 2010 14:58:52

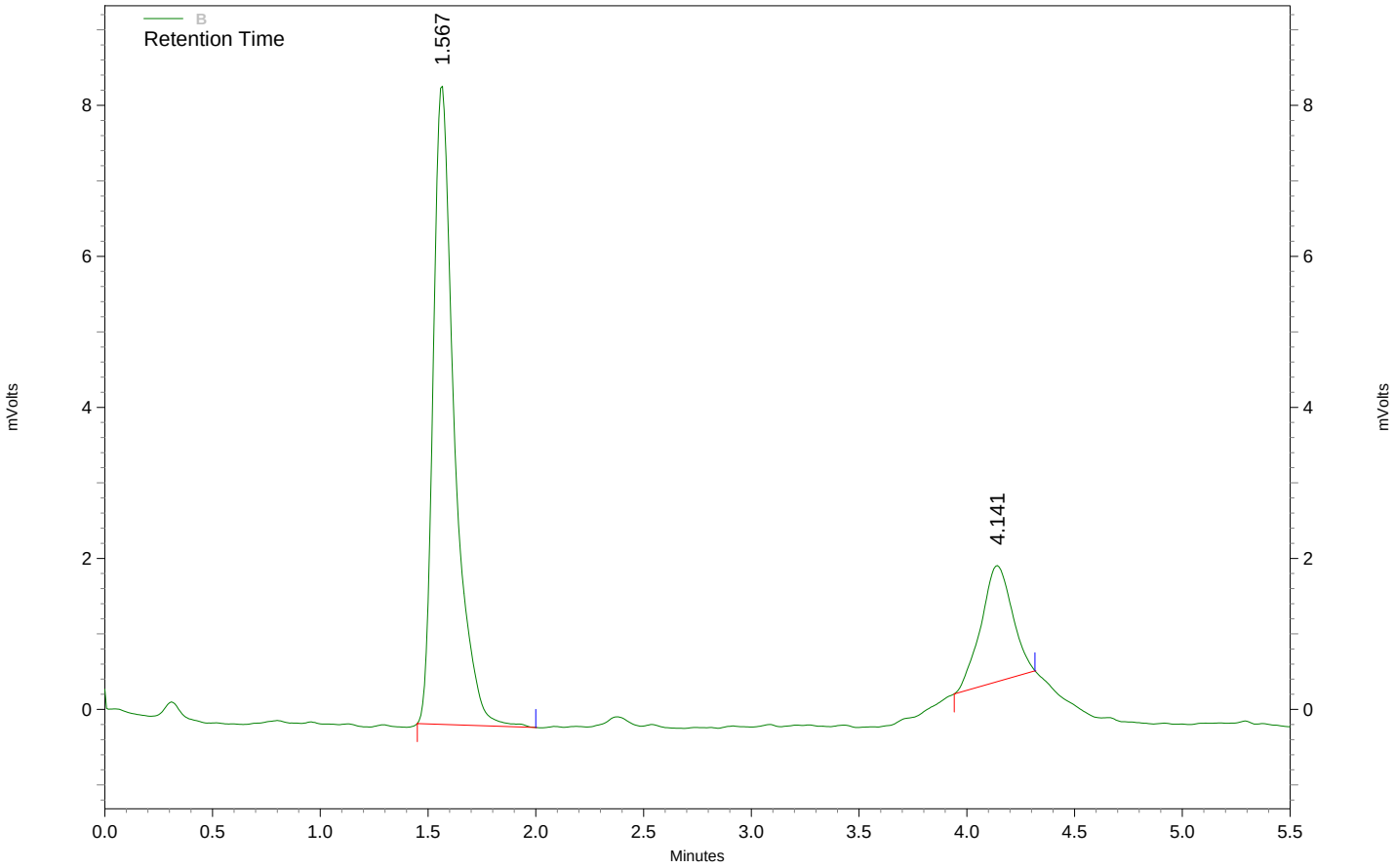
B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
NQ	0.500	0.481	3.870	20.000	**Passed**
12-DNB (SSTD)	100.000	115.086	15.086	20.000	**Passed**

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121610NQ-primary\024.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121610NQ-primary.met
Sample ID: NQ CCV EXP 4134
Acquired: Dec 16, 2010 12:23:56
Data Summary: {Data Description}



B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.567	58006	**0.481**
12-DNB (SSTD)	4.141	15496	**115.086**

QC Check Standard Report

Sequence : C:\Instarch\Sequence\HPLC 2\NQ\121610NQ-primary.seq
User : red
Printed : Dec 23, 2010 14:59:01

RED
12/30/2010

File	Sample ID	Acquired
C:\Instarch\Data\HPLC 2\NQ\121610NQ-primary\028.dat	NQ CCV EXP 4134	Dec 23, 2010 14:59:00

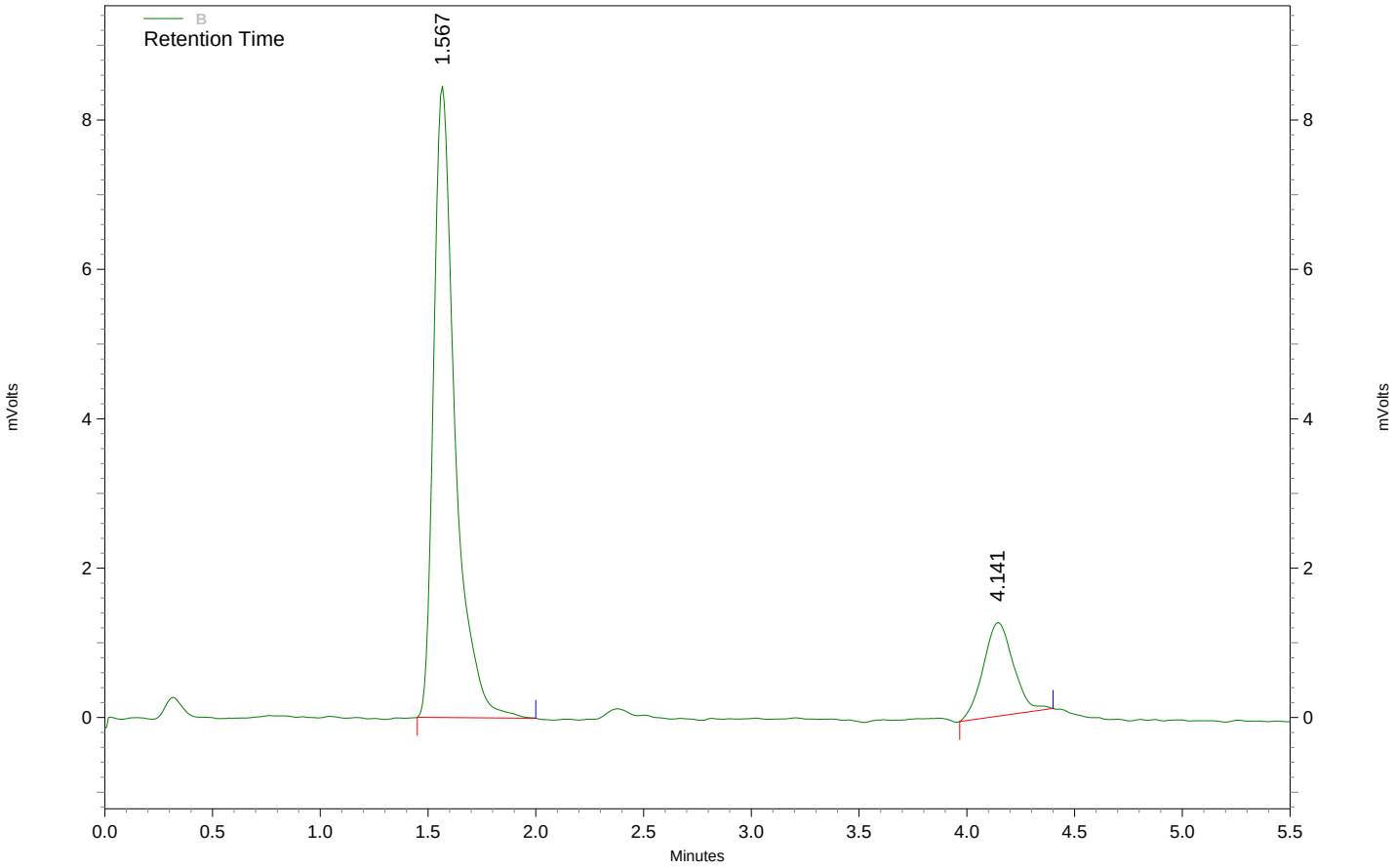
B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
NQ	0.500	0.485	2.930	20.000	**Passed**
12-DNB (SSTD)	100.000	90.462	9.538	20.000	**Passed**

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121610NQ-primary\028.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121610NQ-primary.met
Sample ID: NQ CCV EXP 4134
Acquired: Dec 16, 2010 13:20:27
Data Summary: {Data Description}



B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.567	58560	**0.485**
12-DNB (SSTD)	4.141	12174	**90.462**

QC Check Standard Report

Sequence : C:\Instarch\Sequence\HPLC 2\NQ\121610NQic-confirm.seq
User : red
Printed : Dec 23, 2010 15:00:14

RED
12/30/2010

File	Sample ID	Acquired
C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\010.dat	NQ CCV EXP 4142	Dec 23, 2010 15:00:14

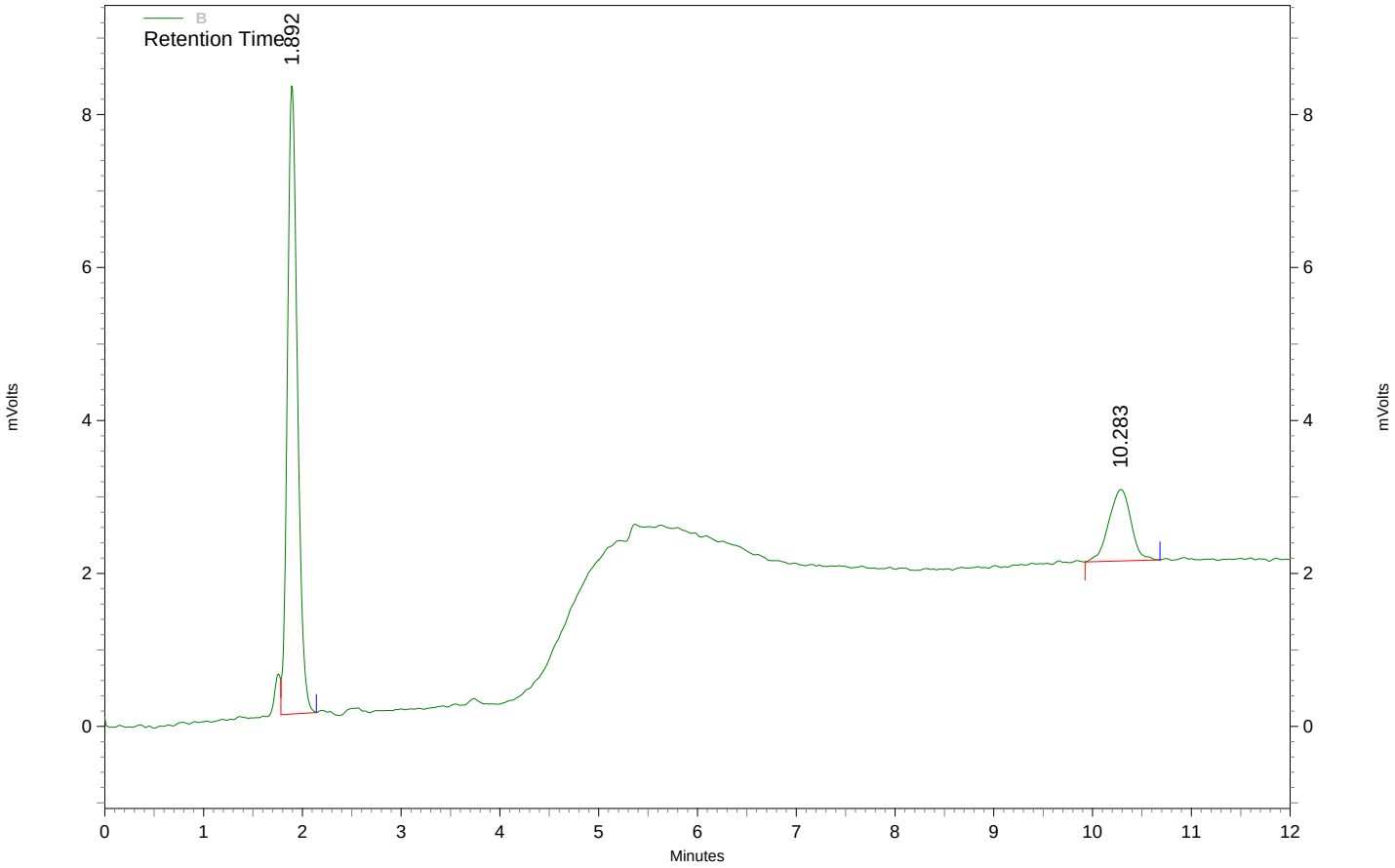
B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
NQ	0.500	0.496	0.836	20.000	**Passed**
12-DNB (SSTD)	100.000	103.634	3.634	20.000	**Passed**

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\010.dat
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
User ID: red
Sample ID: NQ CCV EXP 4142
Acquired: Dec 16, 2010 21:38:00
Data summary: {Data Description}



B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.892	58291	**0.496**
12-DNB (SSTD)	10.283	14588	**103.634**

QC Check Standard Report

Sequence : C:\Instarch\Sequence\HPLC 2\NQ\121610NQic-confirm.seq
User : red
Printed : Dec 23, 2010 15:00:44

RED
12/30/2010

File	Sample ID	Acquired
C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\021.dat	NQ CCV EXP 4142	Dec 23, 2010 15:00:44

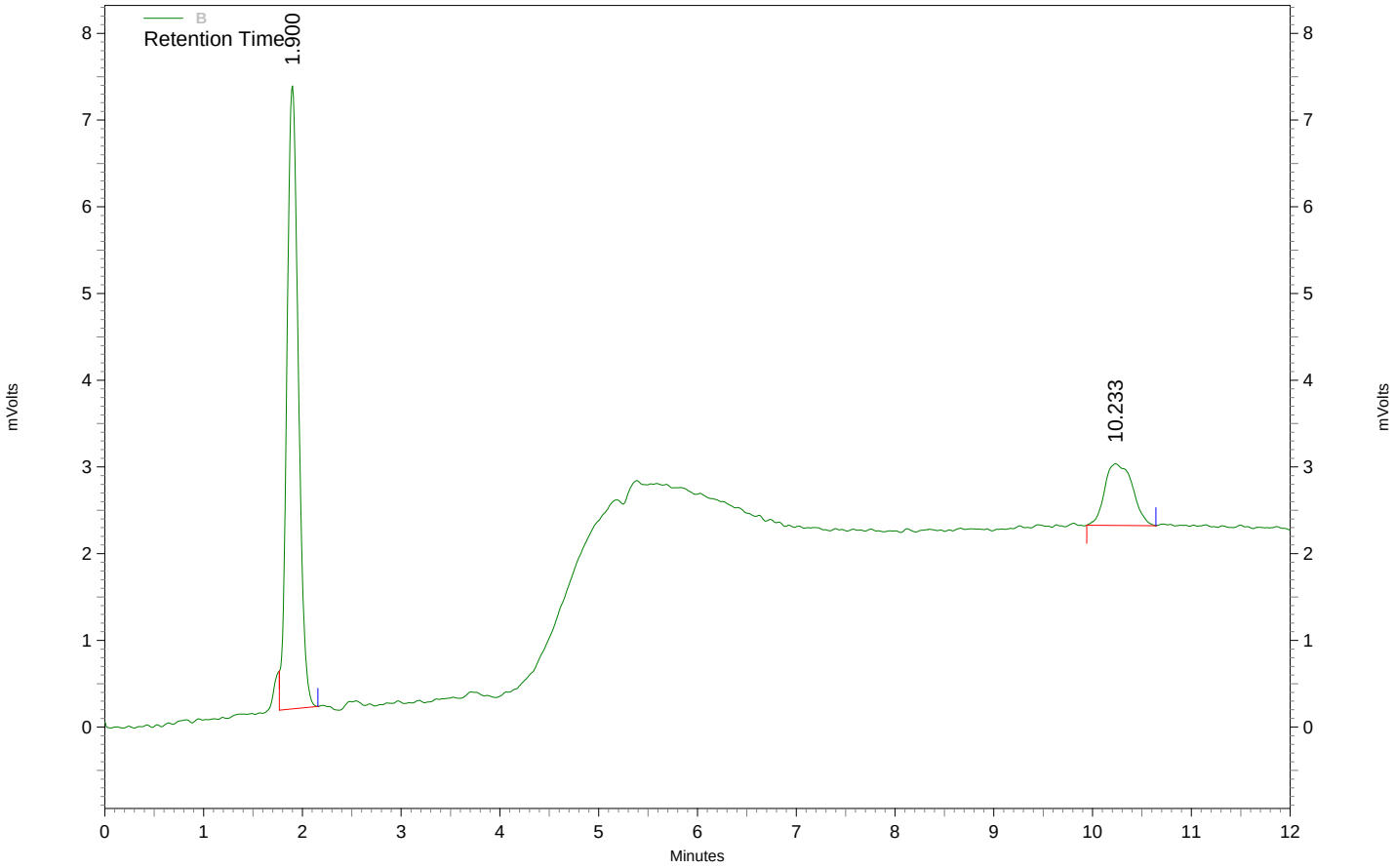
B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
NQ	0.500	0.494	1.214	20.000	**Passed**
12-DNB (SSTD)	100.000	98.718	1.282	20.000	**Passed**

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\021.dat
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
User ID: red
Sample ID: NQ CCV EXP 4142
Acquired: Dec 17, 2010 00:15:16
Data summary: {Data Description}



B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.900	58067	**0.494**
12-DNB (SSTD)	10.233	13902	**98.718**

QC Check Standard Report

Sequence : C:\Instarch\Sequence\HPLC 2\NQ\121610NQic-confirm.seq
User : red
Printed : Dec 23, 2010 15:01:12

RED
12/30/2010

File	Sample ID	Acquired
C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\032.dat	NQ CCV EXP 4142	Dec 23, 2010 15:01:12

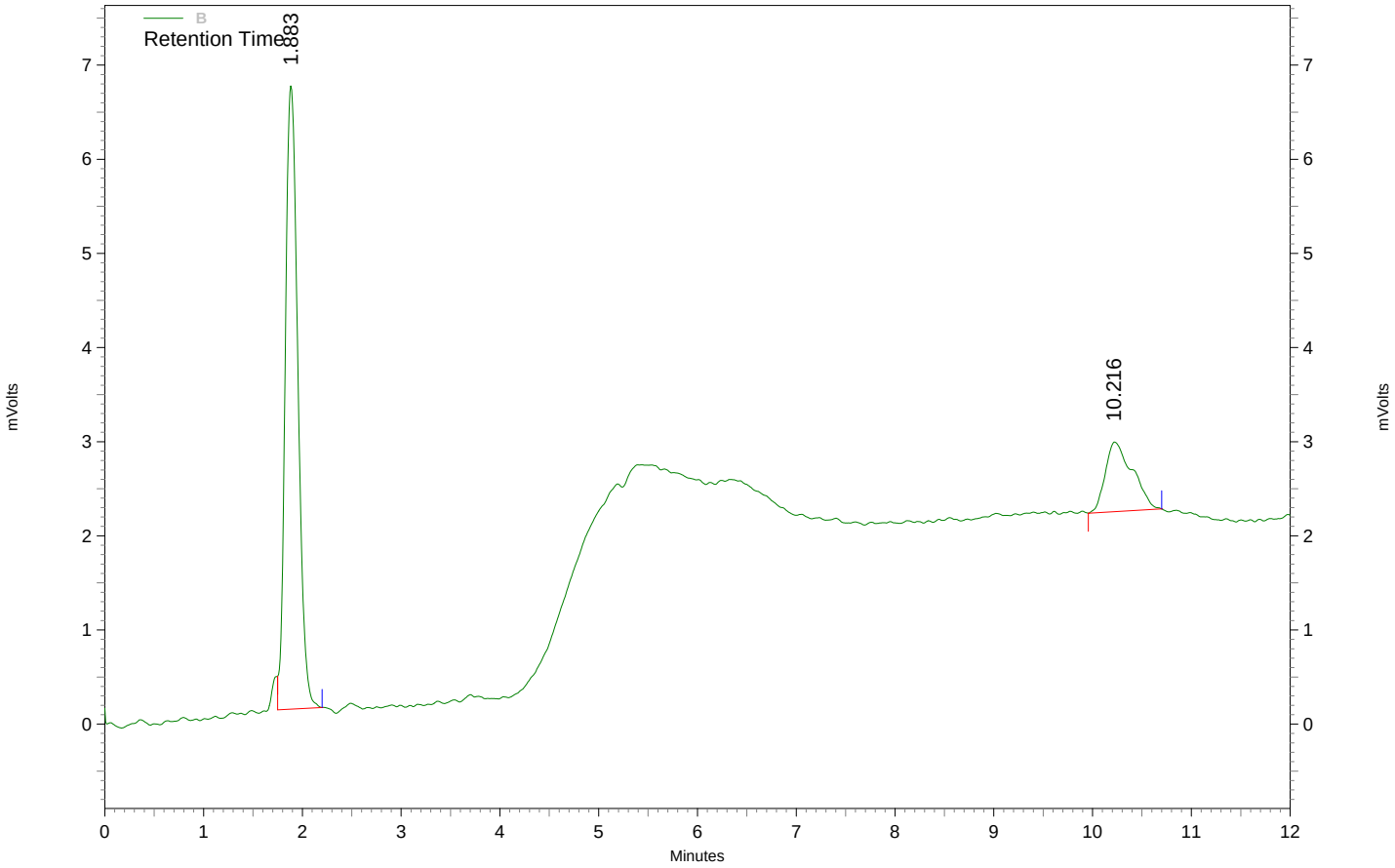
B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
NQ	0.500	0.500	0.043	20.000	Passed
12-DNB (SSTD)	100.000	99.901	0.099	20.000	Passed

Explosives - 8330

RED
12/30/2010

File: C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\032.dat
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
User ID: red
Sample ID: NQ CCV EXP 4142
Acquired: Dec 17, 2010 02:52:30
Data summary: {Data Description}



B Results

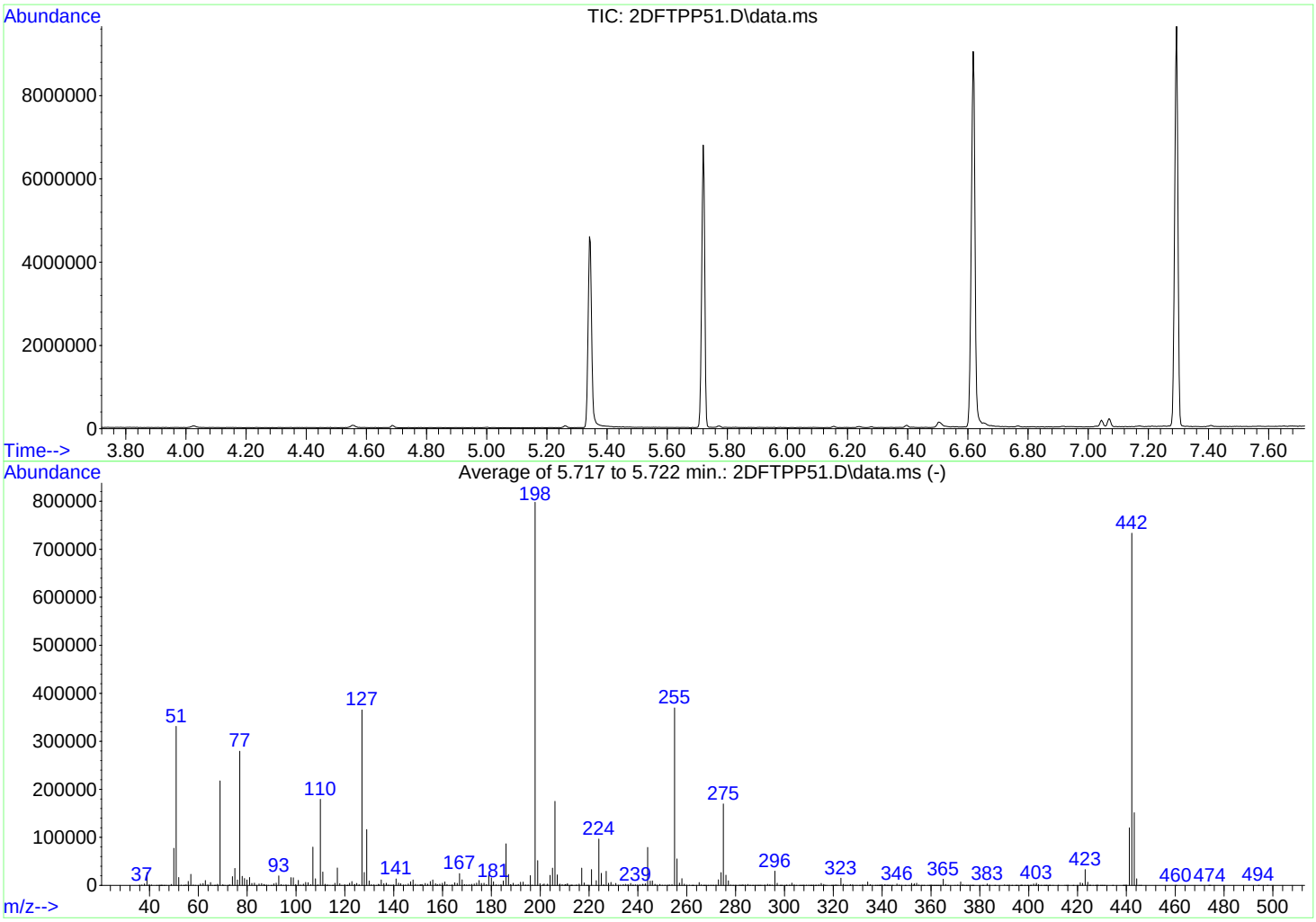
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.883	58812	**0.500**
12-DNB (SSTD)	10.216	14067	**99.901**

DFTPP

Data File : C:\INSTARCH\DATA\2S120210B\2DFTPP51.D Vial: 1
Acq On : 2 Dec 2010 11:11 Operator: RPN
Sample : DFTPP SVMS4646 Inst : SVMS2
Misc : SVMS2,25 ng DFTPP Multiplr: 1.00
Integrator: RTE

RPN
12/02/10

Method : C:\INSTARCH\METHOD\2S120210.M
Title : Method for 8270 analysis for instrument SVMS2
Last Update : Thu Dec 02 14:33:20 2010



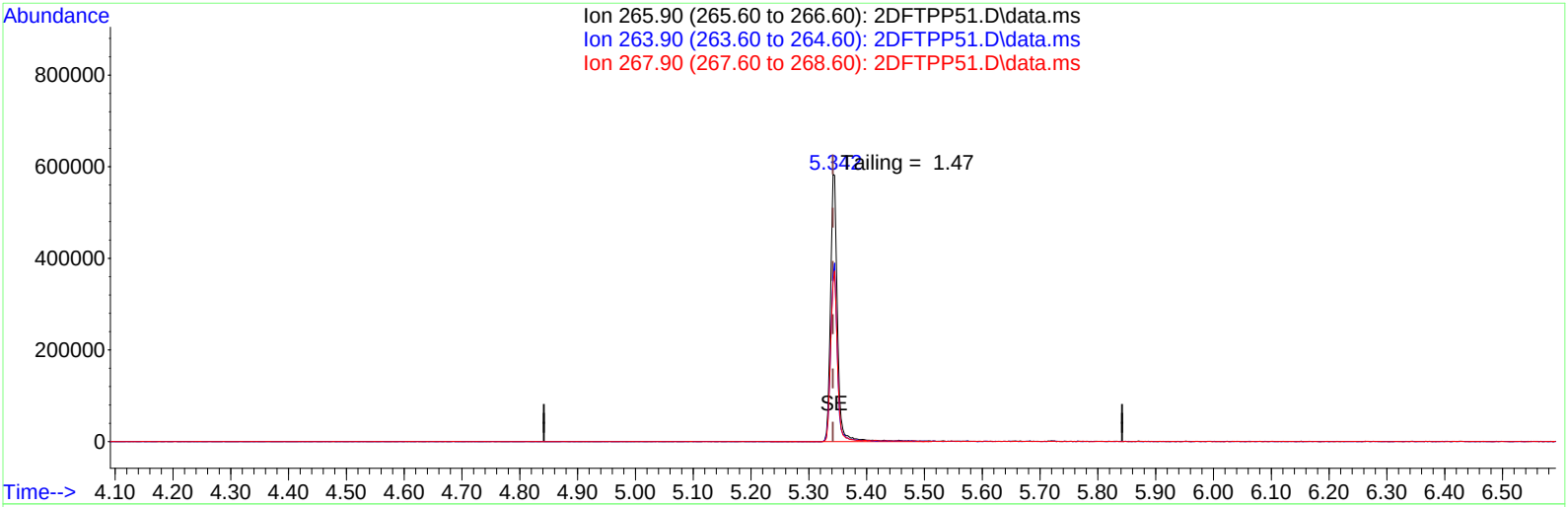
AutoFind: Scans 821, 822, 823; Background Corrected with Scan 813

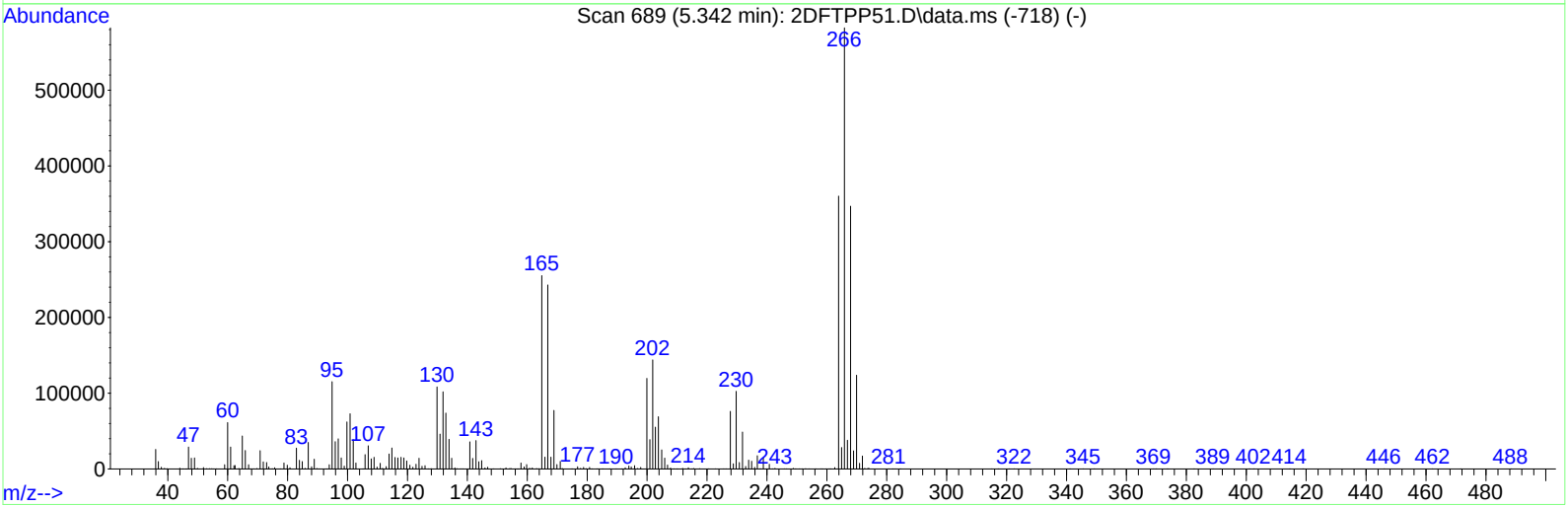
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	41.5	331346	PASS
68	69	0.00	2	1.1	2407	PASS
69	198	0.00	100	27.3	217600	PASS
70	69	0.00	2	0.6	1201	PASS
127	198	40	60	45.8	365461	PASS
197	198	0.00	1	0.1	711	PASS
198	198	100	100	100.0	797888	PASS
199	198	5	9	6.5	51626	PASS
275	198	10	30	21.3	169621	PASS
365	198	1	100	1.6	12870	PASS
441	443	0.01	100	79.3	119989	PASS
442	198	40	100	91.9	733397	PASS
443	442	17	23	20.6	151325	PASS

Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\2S120210B\2DFTPP51.D Vial: 1
Acq On : 2 Dec 2010 11:11 Operator: RPN
Sample : DFTPP SVMS4646 Inst : SVMS2
Misc : SVMS2,25 ng DFTPP Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 17:07:21 2010

Quant Method : C:\INSTARCH\METHOD\2DFTPP.M
Quant Title : DFTPP TUNE Method
QLast Update : Thu Dec 02 17:07:17 2010
Response via : Initial Calibration
DataAcq Meth:2DFTPP.M





TIC: 2DFTPP51.D\data.ms

(1) Pentachlorophenol

5.342min (0.000) 40.66 ng

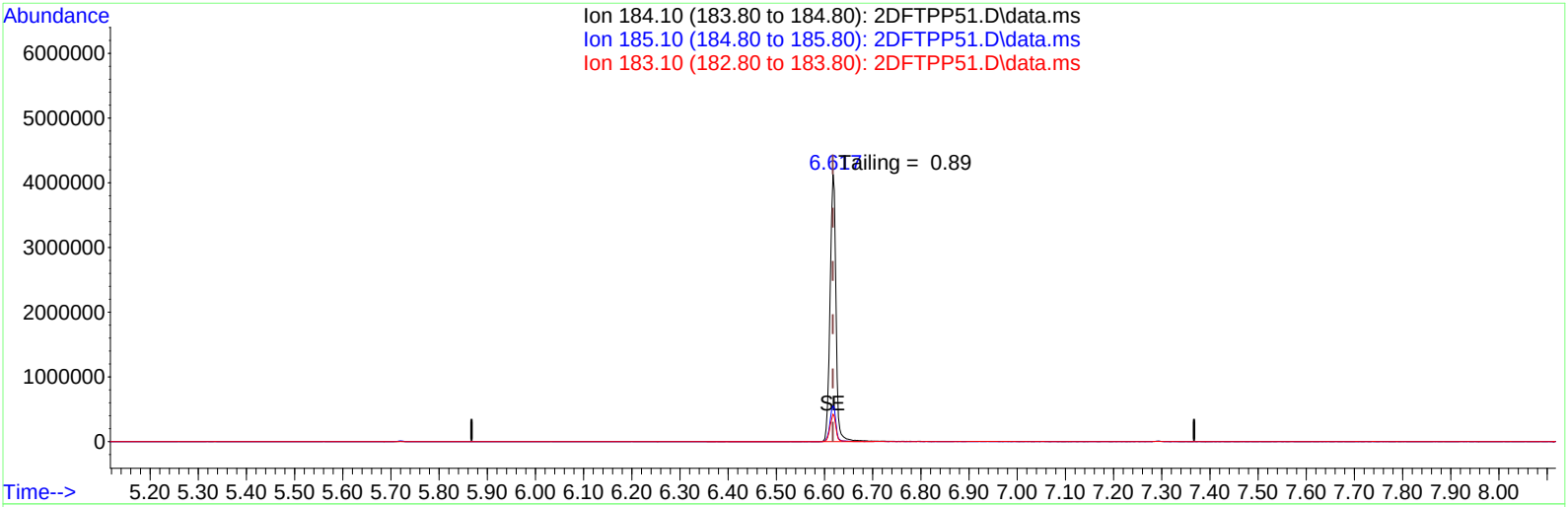
response 480585

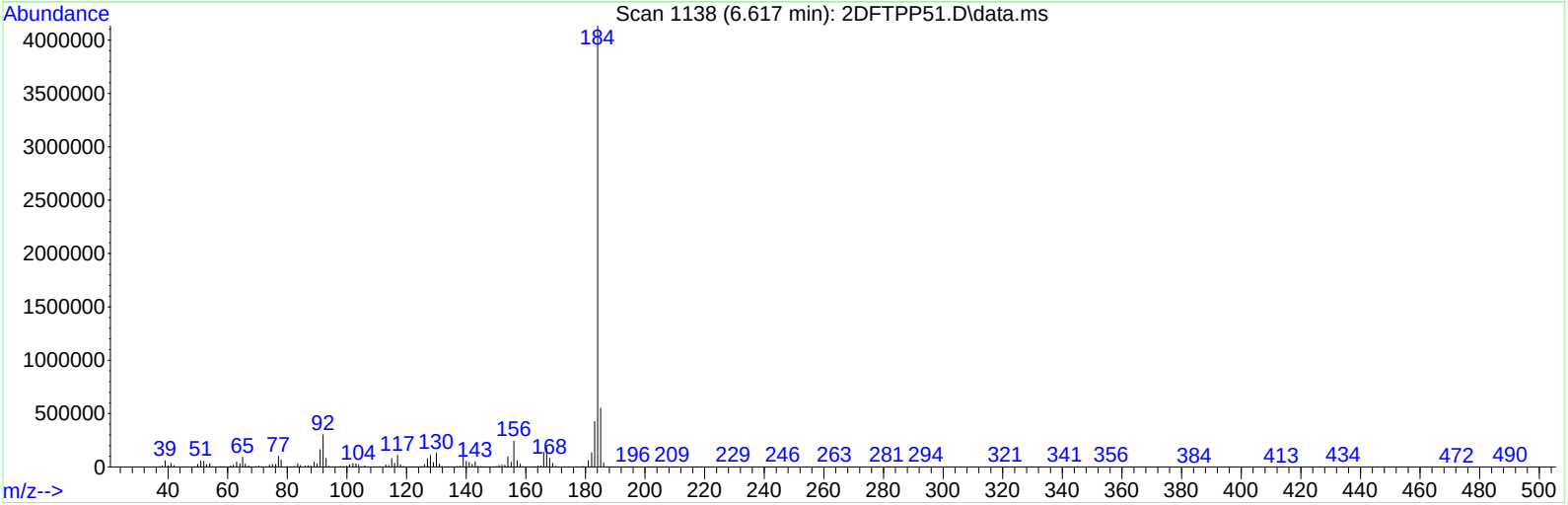
Ion	Exp%	Act%
265.90	100	100
263.90	61.70	61.89
267.90	60.80	59.45
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\2S120210B\2DFTPP51.D Vial: 1
Acq On : 2 Dec 2010 11:11 Operator: RPN
Sample : DFTPP SVMS4646 Inst : SVMS2
Misc : SVMS2,25 ng DFTPP Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 17:07:21 2010

Quant Method : C:\INSTARCH\METHOD\2DFTPP.M
Quant Title : DFTPP TUNE Method
QLast Update : Thu Dec 02 17:07:17 2010
Response via : Initial Calibration
DataAcq Meth:2DFTPP.M





TIC: 2DFTPP51.D\data.ms

(3) Benzidine

6.617min (0.000) 58.83 ng

response 3524555

Ion	Exp%	Act%
184.10	100	100
185.10	14.10	13.69
183.10	10.30	10.28
0.00	0.00	0.00

Data File	: 2DFTPP51.D	Vial Number	: 1
Data File Path	: C:\INSTARCH\DATA\2S120210B\	Operator	: RPN
Date Acquired	: 12/2/2010 11:11	Instrument Name:	SVMS2
Sample Name	: DFTPP SVMS4646	Sample Multiplier:	1
Misc Info	: SVMS2,25 ng DFTPP		

Quant Method	: C:\INSTARCH\METHOD\2DFTPP.M
Calibration Title	: DFTPP TUNE Method
Last Update	: Thu Dec 02 17:07:17 2010

Compound	R.T.	QIon	Response
1) Pentachlorophenol	5.34	266	480585
2) DFTPP	5.72	198	620994
3) Benzidine	6.62	184	3524555
4) DDE	6.77	246	2165
5) DDD	7.07	235	52011
6) DDT	7.29	235	1595160

DDT %Degradation

$$\frac{\text{DDD + DDE}}{\text{DDD + DDE + DDT}} \times 100\% = 3.28\ \%$$

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S120210B\2ICV1.D Vial: 9
Acq On : 2 Dec 2010 14:10 Operator: RPN
Sample : ICV 1 20ug/ml SVMS4686 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 14:33:36 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 14:33:20 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	14Diclbenzd4	20.000	20.000	0.0	107	0.13
2	TM	Ntrsdimeth	20.000	19.892	0.5	105	0.09
3	TM	Pyridine	20.000	20.370	-1.9	106	0.05
4	S	SURR2Flphenol	50.000	49.242	1.5	103	0.10
5	TM	Aniline	20.000	19.962	0.2	105	0.13
6	TM	bis2Clethletr	20.000	20.261	-1.3	107	0.13
7	S	SURRPhenol-d5	50.000	48.517	3.0	103	0.12
8	CTM	Phenol	20.000	20.036	-0.2	104	0.12
9	TM	2-Cl-phenol	20.000	19.823	0.9	106	0.13
10	TM	13Diclbenz	20.000	19.583	2.1	104	0.13
11	CTM	14Diclbenz	20.000	19.931	0.3	106	0.13
12	TM	12Diclbenz	20.000	19.573	2.1	105	0.14
13	TM	Benzyl alcoho	20.000	20.475	-2.4	108	0.13
14	TM	bis2clispreth	20.000	19.445	2.8	105	0.13
15	TM	2Methylphenol	20.000	19.490	2.6	103	0.14
16	TM	Ntrspyrrol	20.000	20.186	-0.9	102	0.14
17	TM	Acetophenone	20.000	19.627	1.9	104	0.14
18	TM	Hexaclethane	20.000	19.467	2.7	102	0.15
19	PTM	N-Ntrsdinprop	20.000	19.821	0.9	105	0.14
20	TM	3&4Methylphenol	20.000	20.196	-1.0	105	0.14
21	I	Naphthalened8	20.000	20.000	0.0	105	0.12
22	S	SURRNitrbenzened5	100.000	102.205	-2.2	105	0.13
23	TM	Nitrobenzene	20.000	20.812	-4.1	106	0.13
24	TM	Isophorone	20.000	20.125	-0.6	104	0.14
25	CTM	2-Nitrophenol	20.000	20.479	-2.4	104	0.13
26	TM	24Dimthpheno	20.000	20.198	-1.0	103	0.12
27	TM	bis2clethoxym	20.000	20.013	-0.1	105	0.12
28	CTM	24Diclphenol	20.000	20.868	-4.3	105	0.12
29	TM	124Triclbenz	20.000	19.972	0.1	104	0.12
30	TM	Benzoic acid	20.000	20.433	-2.2	110	0.11
31	TM	Naphthalene	20.000	20.204	-1.0	105	0.11
32	TM	4-Cl-aniline	20.000	20.191	-1.0	103	0.11
33	TM	26Diclphenol	20.000	19.785	1.1	98	0.11
34	TM	Hexaclprop	20.000	20.290	-1.4	101	0.11
35	CTM	Hexaclbutdien	20.000	19.890	0.5	103	0.11
36	CTM	4Cl3methylphe	20.000	20.487	-2.4	103	0.10
37	TM	2Methylnaphth	20.000	20.021	-0.1	102	0.10
38	TM	1Methylnaphth	20.000	20.134	-0.7	103	0.10
39	I	Acenaphthened10	20.000	20.000	0.0	102	0.09
40	PTM	Hxclcycpentdi	20.000	20.155	-0.8	103	0.09
41	TM	1245Tetrclbenz	20.000	20.417	-2.1	103	0.09
42	CTM	246Triclpheno	20.000	20.665	-3.3	101	0.09
43	TM	245Triclpheno	20.000	20.526	-2.6	101	0.09
44	S	SURR2Flbiphenyl	100.000	101.580	-1.6	101	0.09
45	TM	2Clnaphthalen	20.000	20.416	-2.1	101	0.09
46	TM	2Nitroaniline	20.000	21.368	-6.8	105	0.09
47	TM	Acnaphthylene	20.000	20.402	-2.0	102	0.09
48	TM	Dimethylphtha	20.000	20.722	-3.6	103	0.09
49	TM	26Dinitrotolu	20.000	20.755	-3.8	102	0.09
50	CTM	Acenaphthene	20.000	20.462	-2.3	103	0.09
51	TM	3Nitroaniline	20.000	20.461	-2.3	103	0.09

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S120210B\2ICV1.D Vial: 9
Acq On : 2 Dec 2010 14:10 Operator: RPN
Sample : ICV 1 20ug/ml SVMS4686 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 14:33:36 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 14:33:20 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	PTM	24Dinitphenol	20.000	19.278	3.6	100	0.09
53	TM	Dibenzofuran	20.000	20.511	-2.6	103	0.09
54	TM	24Dinitrotolu	20.000	21.236	-6.2	101	0.09
55	PTM	4-Nitrophenol	20.000	20.256	-1.3	104	0.09
56	TM	2,3,5,6-Tetrachlorop	20.000	20.037	-0.2	100	0.09
57	TM	2,3,4,6-Tetrachlorop	20.000	20.209	-1.0	103	0.09
58	TM	Fluorene	20.000	19.881	0.6	102	0.09
59	TM	4Clphlphlethr	20.000	20.317	-1.6	102	0.09
60	TM	Diethylphthal	20.000	20.429	-2.1	102	0.09
61	TM	4Nitroaniline	20.000	20.609	-3.0	104	0.09
62	S	SURR246Tribrphenl	50.000	49.829	0.3	96	0.09
63	I	Phenanthrd10	20.000	20.000	0.0	103	0.08
64	TM	46Dinit2mylph	20.000	20.619	-3.1	104	0.09
65	CTM	Ntrsdiphlam&Diphlam	40.000	39.943	0.1	103	0.09
66	TM	Azobenz&12Diphlhyd	40.000	40.103	-0.3	103	0.09
67	TM	4Brphlphlethr	20.000	20.766	-3.8	106	0.09
68	TM	Hexaclbenzene	20.000	19.627	1.9	102	0.09
69	CTM	Pentaclphenol	20.000	19.575	2.1	104	0.08
70	TM	Phenanthrene	20.000	19.959	0.2	104	0.08
71	TM	Anthracene	20.000	20.087	-0.4	104	0.07
72	TM	Carbazole	20.000	20.403	-2.0	107	0.08
73	TM	Dinbtylphthal	20.000	20.805	-4.0	104	0.08
74	CTM	Fluoranthene	20.000	20.343	-1.7	104	0.08
75	I	Chrysene-d12	20.000	20.000	0.0	102	0.11
76	TM	Benzidine	20.000	18.698	6.5	100	0.10
77	TM	Pyrene	20.000	20.483	-2.4	106	0.10
78	S	SURRTerphenyl-d14	100.000	100.323	-0.3	102	0.10
79	TM	Btylbzylphth	20.000	20.687	-3.4	104	0.10
80	TM	33Diclbnzidin	20.000	19.492	2.5	101	0.11
81	TM	B[a]anthracen	20.000	20.327	-1.6	104	0.11
82	TM	Chrysene	20.000	20.176	-0.9	102	0.11
83	TM	bis2Ethlhxlph	20.000	20.883	-4.4	104	0.10
84	CTM	Dinoctylphthl	20.000	20.697	-3.5	103	0.11
85	I	Perylene-d12	20.000	20.000	0.0	101	0.14
86	TM	B[b]fluoranth	20.000	19.367	3.2	96	0.13
87	TM	B[k]fluoranth	20.000	21.477	-7.4	108	0.13
88	CTM	Benz[a]pyrene	20.000	20.469	-2.3	101	0.14
89	TM	Indeno-pyrene	20.000	21.052	-5.3	103	0.20
90	TM	Dib[ah]anthr	20.000	21.355	-6.8	105	0.20
91	TM	B[ghi]perylen	20.000	21.136	-5.7	104	0.21

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S120210B\2ICV1.D Vial: 9
Acq On : 2 Dec 2010 14:10 Operator: RPN
Sample : ICV 1 20ug/ml SVMS4686 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 14:33:36 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 14:33:20 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	14Diclbenzd4	1.000	1.000	0.0	107	0.13
2	TM	Ntrsdimeth	0.710	0.706	0.6	105	0.09
3	TM	Pyridine	1.262	1.285	-1.8	106	0.05
4	S	SURR2Flphenol	0.498	0.490	1.6	103	0.10
5	TM	Aniline	1.928	1.924	0.2	105	0.13
6	TM	bis2Clethletr	1.197	1.212	-1.3	107	0.13
7	S	SURRPhenol-d5	0.598	0.580	3.0	103	0.12
8	CTM	Phenol	1.474	1.477	-0.2	104	0.12
9	TM	2-Cl-phenol	1.343	1.331	0.9	106	0.13
10	TM	13Diclbenz	1.551	1.519	2.1	104	0.13
11	CTM	14Diclbenz	1.576	1.570	0.4	106	0.13
12	TM	12Diclbenz	1.495	1.463	2.1	105	0.14
13	TM	Benzyl alcoho	0.604	0.710	-17.5	108	0.13
14	TM	bis2clispreth	2.279	2.216	2.8	105	0.13
15	TM	2Methylphenol	1.127	1.098	2.6	103	0.14
16	TM	Ntrspyrrol	0.596	0.601	-0.8	102	0.14
17	TM	Acetophenone	1.682	1.651	1.8	104	0.14
18	TM	Hexaclethane	0.526	0.512	2.7	102	0.15
19	PTM	N-Ntrsdinprop	0.753	0.746	0.9	105	0.14
20	TM	3&4Methylphenol	1.124	1.135	-1.0	105	0.14
21	I	Naphthalened8	1.000	1.000	0.0	105	0.12
22	S	SURRNitrbenzened5	0.048	0.049	-2.1	105	0.13
23	TM	Nitrobenzene	0.247	0.257	-4.0	106	0.13
24	TM	Isophorone	0.544	0.548	-0.7	104	0.14
25	CTM	2-Nitrophenol	0.184	0.189	-2.7	104	0.13
26	TM	24Dimthpheno	0.279	0.282	-1.1	103	0.12
27	TM	bis2clethoxym	0.375	0.375	0.0	105	0.12
28	CTM	24Diclphenol	0.261	0.272	-4.2	105	0.12
29	TM	124Triclbenz	0.323	0.323	0.0	104	0.12
30	TM	Benzoic acid	0.175	0.192	-9.7	110	0.11
31	TM	Naphthalene	1.021	1.031	-1.0	105	0.11
32	TM	4-Cl-aniline	0.383	0.387	-1.0	103	0.11
33	TM	26Diclphenol	0.236	0.234	0.8	98	0.11
34	TM	Hexaclprop	0.166	0.168	-1.2	101	0.11
35	CTM	Hexaclbutdien	0.152	0.151	0.7	103	0.11
36	CTM	4Cl3methylphe	0.250	0.256	-2.4	103	0.10
37	TM	2Methylnaphth	0.570	0.570	0.0	102	0.10
38	TM	1Methylnaphth	0.591	0.595	-0.7	103	0.10
39	I	Acenaphthened10	1.000	1.000	0.0	102	0.09
40	PTM	Hxclcycpentdi	0.310	0.336	-8.4	103	0.09
41	TM	1245Tetrclbenz	0.533	0.544	-2.1	103	0.09
42	CTM	246Triclpheno	0.351	0.363	-3.4	101	0.09
43	TM	245Triclpheno	0.373	0.382	-2.4	101	0.09
44	S	SURR2Flbiphenyl	0.262	0.266	-1.5	101	0.09
45	TM	2Clnaphthalen	1.155	1.179	-2.1	101	0.09
46	TM	2Nitroaniline	0.270	0.288	-6.7	105	0.09
47	TM	Acnaphthylene	1.979	2.019	-2.0	102	0.09
48	TM	Dimethylphtha	1.358	1.407	-3.6	103	0.09
49	TM	26Dinitrotolu	0.294	0.305	-3.7	102	0.09
50	CTM	Acenaphthene	1.244	1.273	-2.3	103	0.09
51	TM	3Nitroaniline	0.314	0.322	-2.5	103	0.09

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S120210B\2ICV1.D Vial: 9
Acq On : 2 Dec 2010 14:10 Operator: RPN
Sample : ICV 1 20ug/ml SVMS4686 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 14:33:36 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 14:33:20 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
52	PTM	24Dinitphenol	0.164	0.167	-1.8	100	0.09
53	TM	Dibenzofuran	1.619	1.661	-2.6	103	0.09
54	TM	24Dinitrotolu	0.364	0.386	-6.0	101	0.09
55	PTM	4-Nitrophenol	0.101	0.102	-1.0	104	0.09
56	TM	2,3,5,6-Tetrachlorop	0.262	0.284	-8.4	100	0.09
57	TM	2,3,4,6-Tetrachlorop	0.277	0.301	-8.7	103	0.09
58	TM	Fluorene	1.306	1.298	0.6	102	0.09
59	TM	4Clphlphlethr	0.581	0.590	-1.5	102	0.09
60	TM	Diethylphthal	1.370	1.400	-2.2	102	0.09
61	TM	4Nitroaniline	0.308	0.318	-3.2	104	0.09
62	S	SURR246Tribrphenl	0.060	0.060	0.0	96	0.09
63	I	Phenanthrd10	1.000	1.000	0.0	103	0.08
64	TM	46Dinit2mylph	0.145	0.149	-2.8	104	0.09
65	CTM	Ntrsdiphlam&Diphlam	0.594	0.593	0.2	103	0.09
66	TM	Azobenz&12Diphlhyd	0.224	0.225	-0.4	103	0.09
67	TM	4Brphlphlethr	0.217	0.225	-3.7	106	0.09
68	TM	Hexaclbenzene	0.225	0.221	1.8	102	0.09
69	CTM	Pentaclphenol	0.107	0.109	-1.9	104	0.08
70	TM	Phenanthrene	1.060	1.058	0.2	104	0.08
71	TM	Anthracene	1.075	1.080	-0.5	104	0.07
72	TM	Carbazole	0.911	0.929	-2.0	107	0.08
73	TM	Dinbtylphthal	1.230	1.279	-4.0	104	0.08
74	CTM	Fluoranthene	1.070	1.089	-1.8	104	0.08
75	I	Chrysene-d12	1.000	1.000	0.0	102	0.11
76	TM	Benzidine	0.336	0.279	17.0	100	0.10
77	TM	Pyrene	1.193	1.221	-2.3	106	0.10
78	S	SURRTerphenyl-d14	0.145	0.146	-0.7	102	0.10
79	TM	Btylbzylphth	0.580	0.600	-3.4	104	0.10
80	TM	33Diclbnzidin	0.255	0.224	12.2	101	0.11
81	TM	B[a]anthracen	1.112	1.130	-1.6	104	0.11
82	TM	Chrysene	1.066	1.075	-0.8	102	0.11
83	TM	bis2Ethlhxlph	0.843	0.880	-4.4	104	0.10
84	CTM	Dinoctylphthl	1.498	1.550	-3.5	103	0.11
85	I	Perylene-d12	1.000	1.000	0.0	101	0.14
86	TM	B[b]fluoranth	1.178	1.141	3.1	96	0.13
87	TM	B[k]fluoranth	1.113	1.195	-7.4	108	0.13
88	CTM	Benz[a]pyrene	1.075	1.100	-2.3	101	0.14
89	TM	Indeno-pyrene	1.092	1.149	-5.2	103	0.20
90	TM	Dib[ah]anthr	0.886	0.946	-6.8	105	0.20
91	TM	B[ghi]perylen	0.907	0.958	-5.6	104	0.21

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICV1.D Vial: 9
Acq On : 2 Dec 2010 14:10 Operator: RPN
Sample : ICV 1 20ug/ml SVMS4686 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 14:33:36 2010

RPN
12/02/10

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 14:33:20 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Compound		R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards							
1) 14Diclbenzd4		4.425	152	514539	20.00	ug/mL	0.00
21) Naphthalened8		6.071	136	2311544	20.00	ug/mL	0.00
39) Acenaphthened10		7.574	164	1186636	20.00	ug/mL	0.00
63) Phenanthrd10		8.466	188	1773794	20.00	ug/mL	0.00
75) Chrysene-d12		9.938	240	1627497	20.00	ug/mL	0.00
85) Perylene-d12		10.907	264	1429018	20.00	ug/mL	0.00
System Monitoring Compounds							
4) SURR2Flphenol		3.158	112	630746	49.24	%REC	0.00
Spiked Amount	100.000	Range 20 - 110		Recovery = 49.24%			
7) SURRPhenol-d5		3.991	99	746523	48.52	%REC	0.00
Spiked Amount	100.000	Range 10 - 115		Recovery = 48.52%			
22) SURRNitrbenzened5		5.127	82	570116	102.20	%REC	0.00
Spiked Amount	100.000	Range 40 - 110		Recovery = 102.20%			
44) SURR2Flbiphenyl		7.085	172	1577102	101.58	%REC	0.00
Spiked Amount	100.000	Range 50 - 110		Recovery = 101.58%			
62) SURR246Tribrphenl		8.088	330	178781	49.83	%REC	0.00
Spiked Amount	100.000	Range 40 - 125		Recovery = 49.83%			
78) SURRTerphenyl-d14		9.276	244	1185961	100.32	ug/mL	0.00
Spiked Amount	100.000	Range 50 - 135		Recovery = 100.32%			
Target Compounds							Qvalue
2) Ntrsdimeth		2.368	74	363429	19.8917	ug/mL	84
3) Pyridine		2.391	79	661185	20.3697	ug/mL	96
5) Aniline		4.059	93	990106	19.9622	ug/mL	89
6) bis2Clethletr		4.127	93	623760	20.2609	ug/mL	98
8) Phenol		4.008	94	759867	20.0359	ug/mL	85
9) 2-Cl-phenol		4.181	128	684736	19.8228	ug/mL	98
10) 13Diclbenz		4.360	146	781373	19.5831	ug/mL	98
11) 14Diclbenz		4.448	146	808018	19.9306	ug/mL	95
12) 12Diclbenz		4.624	146	752902	19.5734	ug/mL	94
13) Benzyl alcoho		4.590	108	365313	20.4748	ug/mL#	73
14) bis2clispreth		4.763	45	1140226	19.4454	ug/mL	95
15) 2Methylphenol		4.721	108	565203	19.4896	ug/mL	96
16) Ntrspyrrol		4.908	100	309411	20.1863	ug/mL	82
17) Acetophenone		4.928	105	849347	19.6274	ug/mL	84
18) Hexaclethane		5.050	117	263270	19.4671	ug/mL	92
19) N-Ntrsdinprop		4.937	70	383897	19.8206	ug/mL	97
20) 3&4Methylphenol		4.931	108	584118	20.1960	ug/mL	97
23) Nitrobenzene		5.153	77	593076	20.8122	ug/mL	84
24) Isophorone		5.511	82	1265876	20.1253	ug/mL	93
25) 2-Nitrophenol		5.607	139	436346	20.4789	ug/mL	74
26) 24Dimthpheno		5.681	107	652141	20.1976	ug/mL	88
27) bis2clethoxym		5.815	93	867879	20.0129	ug/mL	89
28) 24Diclphenol		5.914	162	629158	20.8682	ug/mL	97
29) 124Triclbenz		6.008	180	745534	19.9723	ug/mL	97
30) Benzoic acid		5.820	105	444760	20.4330	ug/mL	91
31) Naphthalene		6.093	128	2383523	20.2043	ug/mL	100
32) 4-Cl-aniline		6.167	127	893513	20.1913	ug/mL	92
33) 26Diclphenol		6.170	162	540113	19.7850	ug/mL	96
34) Hexaclprop		6.190	213	389491	20.2895	ug/mL	98
35) Hexaclbutdien		6.232	225	349090	19.8904	ug/mL	95
36) 4Cl3methylphe		6.662	107	590770	20.4867	ug/mL	87
37) 2Methylnaphth		6.775	141	1318398	20.0206	ug/mL	100
38) 1Methylnaphth		6.860	141	1376131	20.1342	ug/mL	96
40) Hxclcycpentdi		6.909	237	398303	20.1545	ug/mL	97

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICV1.D Vial: 9
Acq On : 2 Dec 2010 14:10 Operator: RPN
Sample : ICV 1 20ug/ml SVMS4686 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 14:33:36 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 14:33:20 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

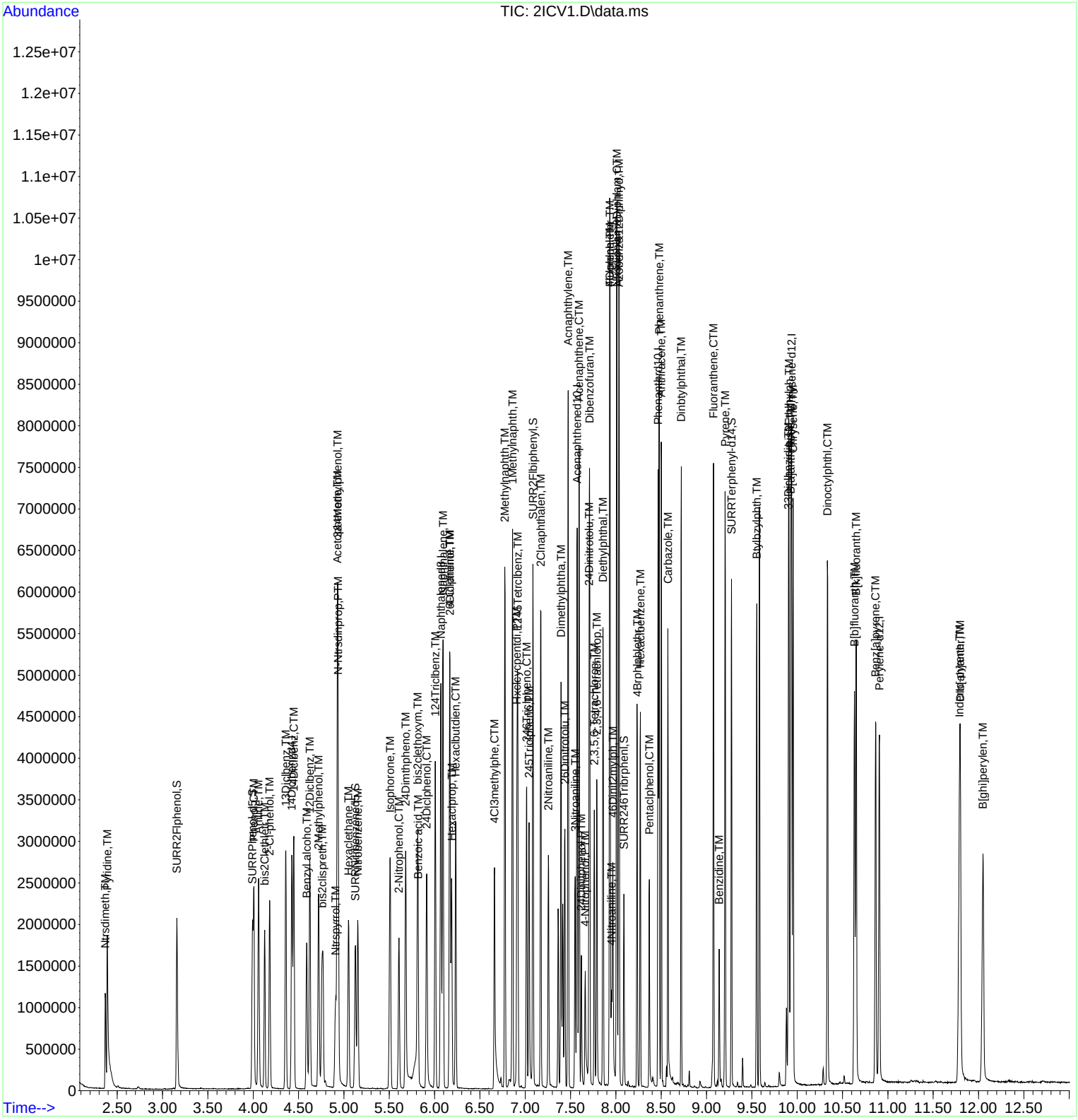
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	6.917	216	645291	20.4165 ug/mL	96
42) 246Triclpheno	7.017	196	430211	20.6645 ug/mL	94
43) 245Triclpheno	7.042	196	453871	20.5257 ug/mL	98
45) 2Clnaphthalen	7.173	162	1399469	20.4158 ug/mL	98
46) 2Nitroaniline	7.255	65	342023	21.3683 ug/mL#	70
47) Acnaphthylene	7.474	152	2396062	20.4025 ug/mL	98
48) Dimethylphtha	7.395	163	1669221	20.7216 ug/mL	98
49) 26Dinitrotolu	7.437	165	361639	20.7548 ug/mL	83
50) Acenaphthene	7.594	153	1510830	20.4622 ug/mL	99
51) 3Nitroaniline	7.551	138	381575	20.4610 ug/mL	85
52) 24Dinitphenol	7.619	184	197921	19.2777 ug/mL	76
53) Dibenzofuran	7.710	168	1970486	20.5108 ug/mL	95
54) 24Dinitrotolu	7.704	165	458050	21.2358 ug/mL	85
55) 4-Nitrophenol	7.662	109	121054	20.2560 ug/mL	79
56) 2,3,5,6-Tetrachlorop	7.761	232	336963	20.0372 ug/mL	96
57) 2,3,4,6-Tetrachlorop	7.790	232	356592	20.2087 ug/mL	96
58) Fluorene	7.934	166	1540116	19.8813 ug/mL	99
59) 4Clphlphlethr	7.932	204	700096	20.3173 ug/mL	97
60) Diethylphthal	7.858	149	1661023	20.4286 ug/mL	99
61) 4Nitroaniline	7.952	138	377184	20.6088 ug/mL#	71
64) 46Dinit2mylph	7.966	198	265029	20.6193 ug/mL	95
65) Ntrsdiphlam&Diphlam	8.011	169	2104433	39.9427 ug/mL	97
66) Azobenz&12Diphlhyd	8.034	182	798212	40.1030 ug/mL#	77
67) 4Brphlphlethr	8.236	248	399717	20.7663 ug/mL	85
68) Hexaclbenzene	8.270	284	391868	19.6273 ug/mL	95
69) Pentaclphenol	8.369	266	193685	19.5745 ug/mL	95
70) Phenanthrene	8.477	178	1877265	19.9594 ug/mL	99
71) Anthracene	8.500	178	1915421	20.0872 ug/mL	98
72) Carbazole	8.574	167	1648165	20.4028 ug/mL	98
73) Dinbtylphthal	8.722	149	2269136	20.8046 ug/mL	99
74) Fluoranthene	9.077	202	1930797	20.3431 ug/mL	97
76) Benzidine	9.139	184	453500	18.6985 ug/mL	98
77) Pyrene	9.205	202	1987987	20.4834 ug/mL	94
79) Btylbzylphth	9.554	149	976210	20.6867 ug/mL	88
80) 33Diclbnzidin	9.904	252	364533	19.4917 ug/mL	97
81) B[a]anthracen	9.929	228	1839795	20.3266 ug/mL	98
82) Chrysene	9.955	228	1749702	20.1762 ug/mL	98
83) bis2Ethlhxlph	9.909	149	1432229	20.8825 ug/mL	99
84) Dinoctylphthl	10.333	149	2522263	20.6975 ug/mL	99
86) B[b]fluoranth	10.631	252	1630216	19.3672 ug/mL	98
87) B[k]fluoranth	10.651	252	1707615	21.4769 ug/mL	97
88) Benz[a]pyrene	10.864	252	1572560	20.4687 ug/mL	98
89) Indeno-pyrene	11.790	276	1642269	21.0520 ug/mL	94
90) Dib[ah]anthr	11.799	278	1351643	21.3547 ug/mL	98
91) B[ghi]perylen	12.049	276	1369556	21.1360 ug/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2ICV1.D Vial: 9
Acq On : 2 Dec 2010 14:10 Operator: RPN
Sample : ICV 1 20ug/ml SVMS4686 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 02 14:33:36 2010

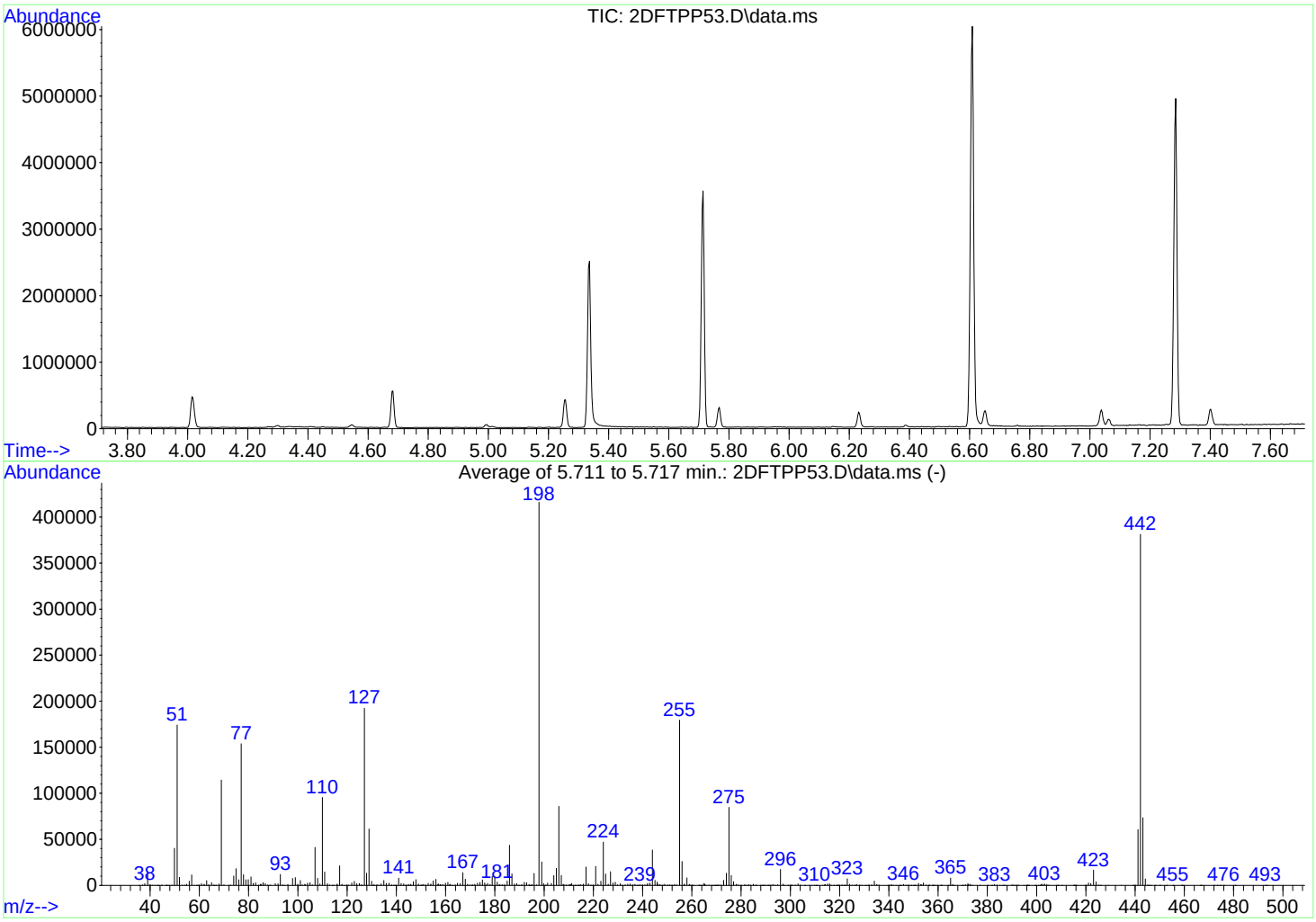
Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 14:33:20 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M



Data File : C:\INSTARCH\DATA\2S120510\2DFTPP53.D Vial: 1
Acq On : 5 Dec 2010 12:45 Operator: RPN
Sample : DFTPP SVMS4646 Inst : SVMS2
Misc : SVMS2,25 ng DFTPP Multiplr: 1.00
Integrator: RTE

RPN
12/14/10

Method : C:\INSTARCH\METHOD\2DFTPP.M
Title : DFTPP TUNE Method
Last Update : Tue Dec 14 11:33:59 2010



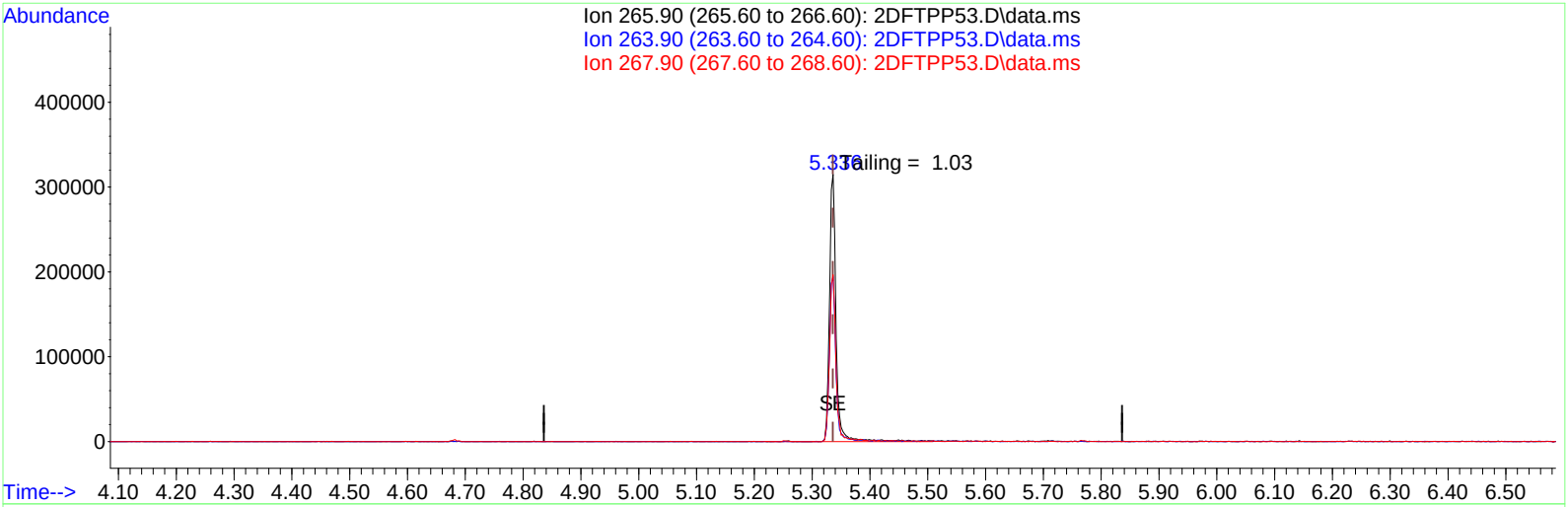
AutoFind: Scans 819, 820, 821; Background Corrected with Scan 807

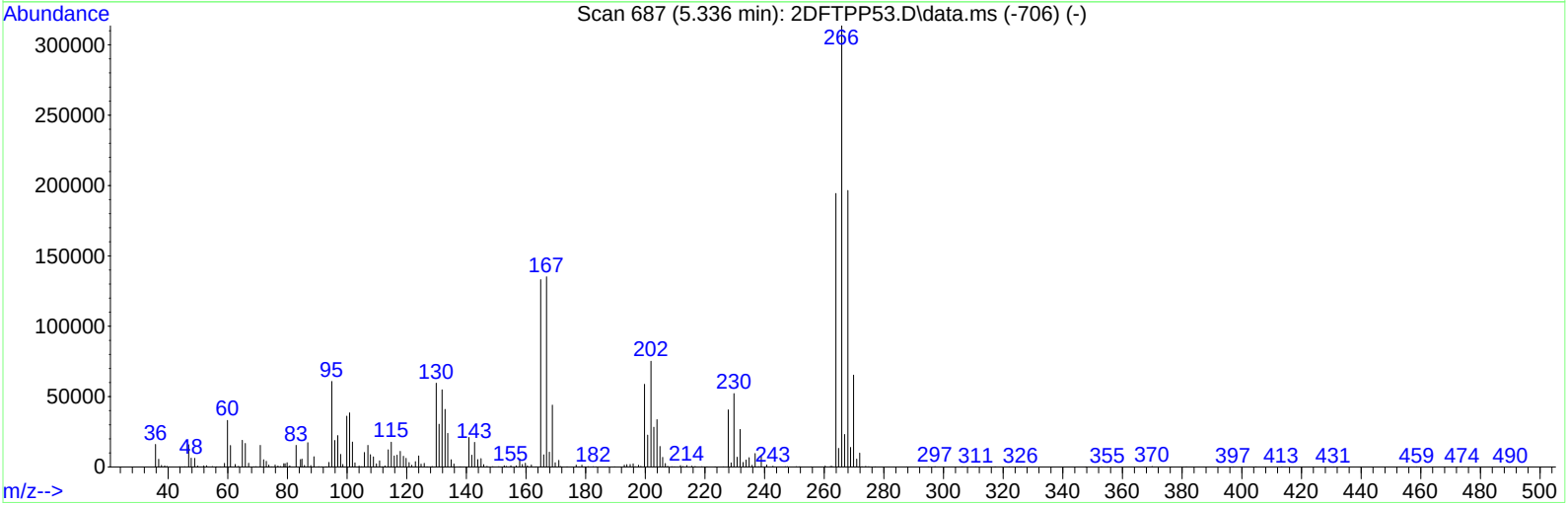
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	41.9	174122	PASS
68	69	0.00	2	1.4	1623	PASS
69	198	0.00	100	27.5	114384	PASS
70	69	0.00	2	0.5	594	PASS
127	198	40	60	46.3	192448	PASS
197	198	0.00	1	0.1	589	PASS
198	198	100	100	100.0	416042	PASS
199	198	5	9	6.1	25565	PASS
275	198	10	30	20.4	84693	PASS
365	198	1	100	1.9	7970	PASS
441	443	0.01	100	82.7	60733	PASS
442	198	40	100	91.6	381269	PASS
443	442	17	23	19.3	73405	PASS

Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\2S120510\2DFTPP53.D Vial: 1
Acq On : 5 Dec 2010 12:45 Operator: RPN
Sample : DFTPP SVMS4646 Inst : SVMS2
Misc : SVMS2,25 ng DFTPP Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 14 11:34:03 2010

Quant Method : C:\INSTARCH\METHOD\2DFTPP.M
Quant Title : DFTPP TUNE Method
QLast Update : Tue Dec 14 11:33:59 2010
Response via : Initial Calibration
DataAcq Meth:2DFTPP.M





TIC: 2DFTPP53.D\data.ms

(1) Pentachlorophenol

5.336min (0.000) 20.64 ng

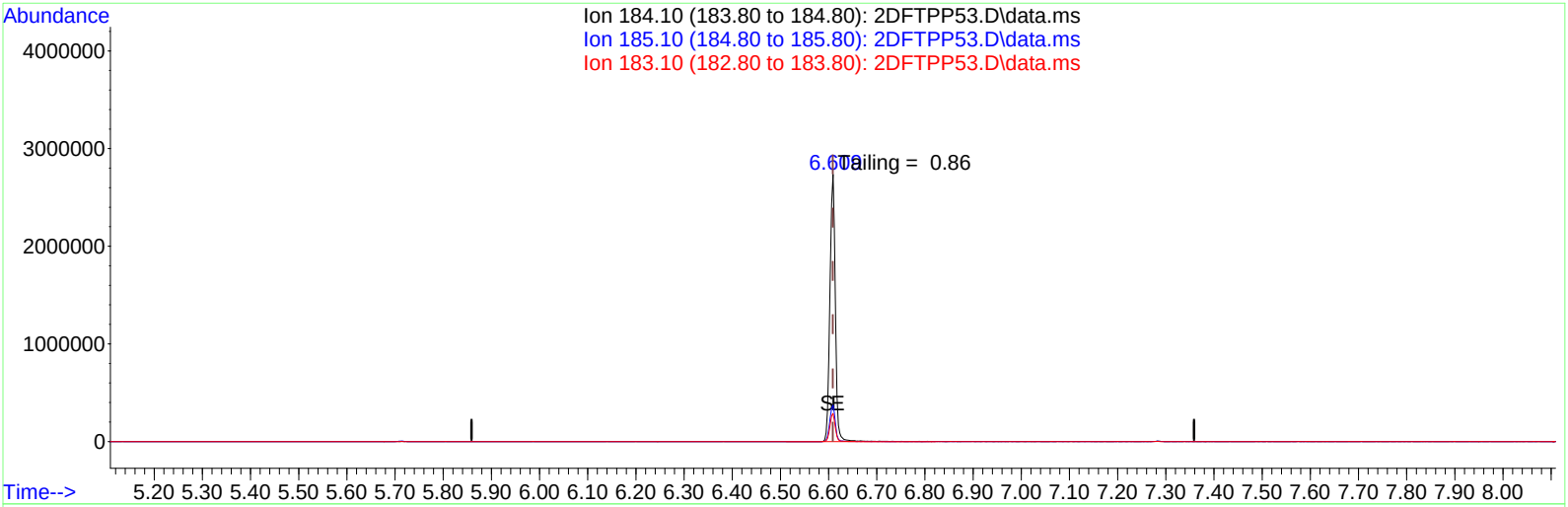
response 243911

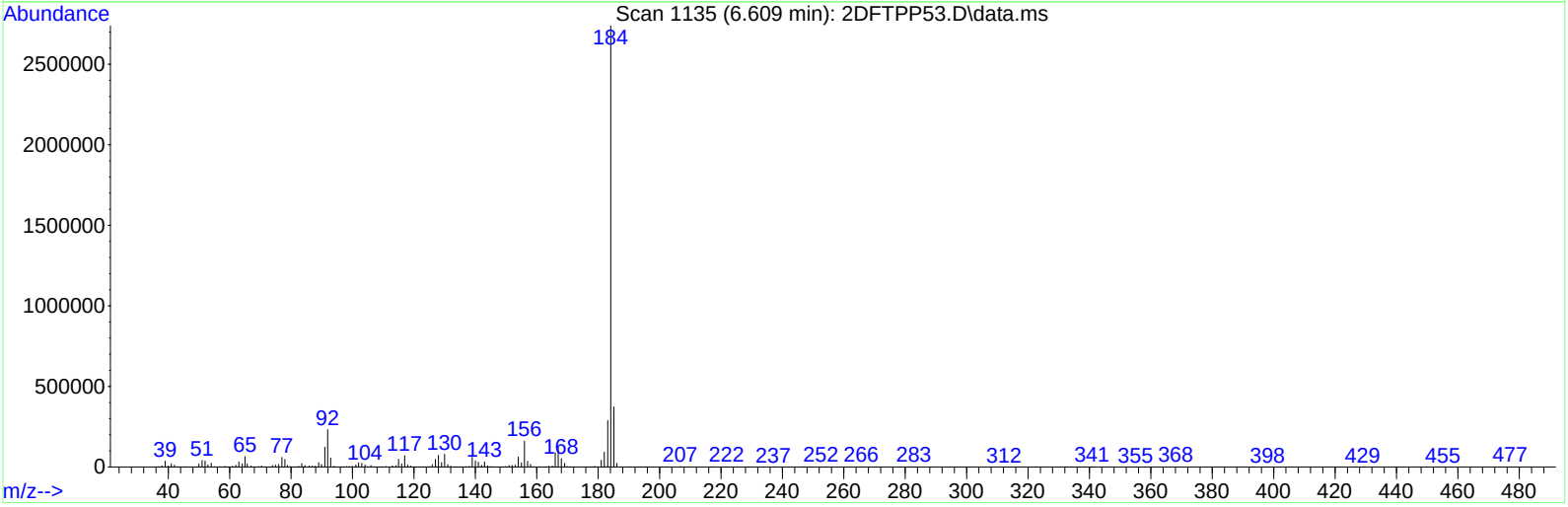
Ion	Exp%	Act%
265.90	100	100
263.90	61.70	61.63
267.90	60.80	62.37
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\2S120510\2DFTPP53.D Vial: 1
Acq On : 5 Dec 2010 12:45 Operator: RPN
Sample : DFTPP SVMS4646 Inst : SVMS2
Misc : SVMS2,25 ng DFTPP Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 14 11:34:03 2010

Quant Method : C:\INSTARCH\METHOD\2DFTPP.M
Quant Title : DFTPP TUNE Method
QLast Update : Tue Dec 14 11:33:59 2010
Response via : Initial Calibration
DataAcq Meth:2DFTPP.M





TIC: 2DFTPP53.D\data.ms

(3) Benzidine

6.609min (0.000) 35.51 ng

response 2127420

Ion	Exp%	Act%
184.10	100	100
185.10	14.10	14.08
183.10	10.30	10.48
0.00	0.00	0.00

Data File	: 2DFTPP53.D	Vial Number	: 1
Data File Path	: C:\INSTARCH\DATA\2S120510\	Operator	: RPN
Date Acquired	: 12/5/2010 12:45	Instrument Name:	SVMS2
Sample Name	: DFTPP SVMS4646	Sample Multiplier:	1
Misc Info	: SVMS2,25 ng DFTPP		

Quant Method	: C:\INSTARCH\METHOD\2DFTPP.M
Calibration Title	: DFTPP TUNE Method
Last Update	: Tue Dec 14 11:33:59 2010

Compound	R.T.	QIon	Response
1) Pentachlorophenol	5.34	266	243911
2) DFTPP	5.71	198	322137
3) Benzidine	6.61	184	2127420
4) DDE	6.76	246	1246
5) DDD	7.06	235	15439
6) DDT	7.29	235	793458

DDT %Degradation

$$\frac{DDD + DDE}{DDD + DDE + DDT} \times 100\% = 2.06\ \%$$

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S120510\2CCV47.D Vial: 2
Acq On : 5 Dec 2010 13:01 Operator: RPN
Sample : CCV 20ug/ml SVMS4688 Inst : SVMS2
Misc : Addl.Comp.,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 14 11:26:26 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Tue Dec 14 11:26:19 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	14Diclbenzd4	20.000	20.000	0.0	65	0.00
2	TM	Ntrsdimeth	20.000	23.263	-16.3	74	0.00
3	TM	Pyridine	20.000	22.760	-13.8	72	0.00
4	S	SURR2Flphenol	50.000	54.794	-9.6	70	0.00
5	TM	Aniline	20.000	21.214	-6.1	68	0.00
6	TM	bis2Clethletr	20.000	21.259	-6.3	68	0.00
7	S	SURRPhenol-d5	50.000	55.523	-11.0	71	0.00
8	CTM	Phenol	20.000	21.903	-9.5	69	0.00
9	TM	2-Cl-phenol	20.000	21.511	-7.6	70	0.00
10	TM	13Diclbenz	20.000	20.934	-4.7	68	0.00
11	CTM	14Diclbenz	20.000	21.227	-6.1	69	0.00
12	TM	12Diclbenz	20.000	20.846	-4.2	68	0.00
13	TM	Benzyl alcoho	20.000	17.999	10.0	57	0.00
14	TM	bis2clispreth	20.000	20.562	-2.8	67	0.00
15	TM	2Methylphenol	20.000	20.981	-4.9	67	0.00
16	TM	Ntrspyrrol	20.000	21.418	-7.1	66	0.00
17	TM	Acetophenone	20.000	20.948	-4.7	67	0.00
18	TM	Hexaclethane	20.000	20.573	-2.9	65	0.00
19	PTM	N-Ntrsdinprop	20.000	20.020	-0.1	64	0.00
20	TM	3&4Methylphenol	20.000	22.179	-10.9	70	0.00
21	I	Naphthalened8	20.000	20.000	0.0	63	0.00
22	S	SURRNitrbenzened5	100.000	108.421	-8.4	67	0.00
23	TM	Nitrobenzene	20.000	22.161	-10.8	68	0.00
24	TM	Isophorone	20.000	20.949	-4.7	65	0.00
25	CTM	2-Nitrophenol	20.000	21.056	-5.3	64	0.00
26	TM	24Dimthpheno	20.000	20.404	-2.0	62	0.00
27	TM	bis2clethoxym	20.000	20.925	-4.6	66	0.00
28	CTM	24Diclphenol	20.000	21.013	-5.1	64	0.00
29	TM	124Triclbenz	20.000	20.640	-3.2	64	0.00
30	TM	Benzoic acid	20.000	17.040	14.8	53	0.00
31	TM	Naphthalene	20.000	21.197	-6.0	66	0.00
32	TM	4-Cl-aniline	20.000	22.474	-12.4	69	0.00
33	TM	26Diclphenol	20.000	21.566	-7.8	64	0.00
34	TM	Hexaclprop	20.000	20.233	-1.2	61	0.00
35	CTM	Hexaclbutdien	20.000	19.566	2.2	61	0.00
36	CTM	4Cl3methylphe	20.000	20.747	-3.7	62	0.00
37	TM	2Methylnaphth	20.000	20.543	-2.7	63	0.00
38	TM	1Methylnaphth	20.000	20.579	-2.9	63	0.00
39	I	Acenaphthened10	20.000	20.000	0.0	57	0.00
40	PTM	Hxclcycpentdi	20.000	20.619	-3.1	59	0.00
41	TM	1245Tetrclbenz	20.000	21.079	-5.4	60	0.00
42	CTM	246Triclpheno	20.000	21.451	-7.3	59	0.00
43	TM	245Triclpheno	20.000	22.063	-10.3	61	0.00
44	S	SURR2Flbiphenyl	100.000	108.227	-8.2	61	0.00
45	TM	2Clnaphthalen	20.000	22.191	-11.0	62	0.00
46	TM	2Nitroaniline	20.000	22.602	-13.0	62	0.00
47	TM	Acnaphthylene	20.000	22.006	-10.0	62	0.00
48	TM	Dimethylphtha	20.000	20.031	-0.2	56	0.00
49	TM	26Dinitrotolu	20.000	20.922	-4.6	58	0.00
50	CTM	Acenaphthene	20.000	21.503	-7.5	61	0.00
51	TM	3Nitroaniline	20.000	24.567	-22.8#	70	0.00

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S120510\2CCV47.D Vial: 2
Acq On : 5 Dec 2010 13:01 Operator: RPN
Sample : CCV 20ug/ml SVMS4688 Inst : SVMS2
Misc : Addl.Comp.,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 14 11:26:26 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Tue Dec 14 11:26:19 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	PTM	24Dinitphenol	20.000	19.239	3.8	56	0.00
53	TM	Dibenzofuran	20.000	21.506	-7.5	61	0.00
54	TM	24Dinitrotolu	20.000	22.038	-10.2	59	0.00
55	PTM	4-Nitrophenol	20.000	21.288	-6.4	62	0.00
56	TM	2,3,5,6-Tetrachlorop	20.000	19.188	4.1	54	0.00
57	TM	2,3,4,6-Tetrachlorop	20.000	19.895	0.5	57	0.00
58	TM	Fluorene	20.000	20.894	-4.5	60	0.00
59	TM	4Clphlphlethr	20.000	21.120	-5.6	60	0.00
60	TM	Diethylphthal	20.000	19.856	0.7	56	0.00
61	TM	4Nitroaniline	20.000	24.366	-21.8#	69	0.00
62	S	SURR246Tribrphenl	50.000	49.462	1.1	53	0.00
63	I	Phenanthrd10	20.000	20.000	0.0	57	0.00
64	TM	46Dinit2mylph	20.000	20.347	-1.7	56	0.00
65	CTM	Ntrsdiphlam&Diphlam	40.000	42.735	-6.8	60	0.00
66	TM	Azobenz&12Diphlhyd	40.000	42.562	-6.4	60	0.00
67	TM	4Brphlphlethr	20.000	20.222	-1.1	57	0.00
68	TM	Hexaclbenzene	20.000	20.056	-0.3	57	0.00
69	CTM	Pentaclphenol	20.000	18.348	8.3	53	0.00
70	TM	Phenanthrene	20.000	21.136	-5.7	60	0.00
71	TM	Anthracene	20.000	21.451	-7.3	61	0.00
72	TM	Carbazole	20.000	22.380	-11.9	64	0.00
73	TM	Dinbtylphthal	20.000	19.823	0.9	55	0.00
74	CTM	Fluoranthene	20.000	19.894	0.5	56	0.00
75	I	Chrysene-d12	20.000	20.000	0.0	50	0.00
76	TM	Benzidine	20.000	31.655	-58.3#	90	0.00
77	TM	Pyrene	20.000	22.245	-11.2	56	0.00
78	S	SURRTerphenyl-d14	100.000	104.162	-4.2	52	0.00
79	TM	Btylbzylphth	20.000	20.689	-3.4	51	0.00
80	TM	33Diclbnzidin	20.000	28.477	-42.4#	74	0.00
81	TM	B[a]anthracen	20.000	21.191	-6.0	53	0.00
82	TM	Chrysene	20.000	20.569	-2.8	51	0.00
83	TM	bis2Ethlhxlph	20.000	20.416	-2.1	50	0.00
84	CTM	Dinoctylphthl	20.000	20.183	-0.9	49	0.00
85	I	Perylene-d12	20.000	20.000	0.0	48	0.00
86	TM	B[b]fluoranth	20.000	20.047	-0.2	47	0.00
87	TM	B[k]fluoranth	20.000	22.664	-13.3	54	0.00
88	CTM	Benz[a]pyrene	20.000	21.111	-5.6	49	0.00
89	TM	Indeno-pyrene	20.000	22.157	-10.8	51	0.00
90	TM	Dib[ah]anthr	20.000	21.963	-9.8	51	0.00
91	TM	B[ghi]perylen	20.000	22.161	-10.8	52	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S120510\2CCV47.D Vial: 2
Acq On : 5 Dec 2010 13:01 Operator: RPN
Sample : CCV 20ug/ml SVMS4688 Inst : SVMS2
Misc : Addl.Comp.,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 14 11:26:26 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Tue Dec 14 11:26:19 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	14Diclbenzd4	1.000	1.000	0.0	65	0.00
2	TM	Ntrsdimeth	0.710	0.826	-16.3	74	0.00
3	TM	Pyridine	1.262	1.436	-13.8	72	0.00
4	S	SURR2Flphenol	0.498	0.546	-9.6	70	0.00
5	TM	Aniline	1.928	2.045	-6.1	68	0.00
6	TM	bis2Clethletr	1.197	1.272	-6.3	68	0.00
7	S	SURRPhenol-d5	0.598	0.664	-11.0	71	0.00
8	CTM	Phenol	1.474	1.614	-9.5	69	0.00
9	TM	2-Cl-phenol	1.343	1.444	-7.5	70	0.00
10	TM	13Diclbenz	1.551	1.623	-4.6	68	0.00
11	CTM	14Diclbenz	1.576	1.673	-6.2	69	0.00
12	TM	12Diclbenz	1.495	1.558	-4.2	68	0.00
13	TM	Benzyl alcoho	0.604	0.615	-1.8	57	0.00
14	TM	bis2clispreth	2.279	2.343	-2.8	67	0.00
15	TM	2Methylphenol	1.127	1.183	-5.0	67	0.00
16	TM	Ntrspyrrol	0.596	0.638	-7.0	66	0.00
17	TM	Acetophenone	1.682	1.762	-4.8	67	0.00
18	TM	Hexaclethane	0.526	0.541	-2.9	65	0.00
19	PTM	N-Ntrsdinprop	0.753	0.754	-0.1	64	0.00
20	TM	3&4Methylphenol	1.124	1.247	-10.9	70	0.00
21	I	Naphthalened8	1.000	1.000	0.0	63	0.00
22	S	SURRNitrbenzened5	0.048	0.052	-8.3	67	0.00
23	TM	Nitrobenzene	0.247	0.273	-10.5	68	0.00
24	TM	Isophorone	0.544	0.570	-4.8	65	0.00
25	CTM	2-Nitrophenol	0.184	0.194	-5.4	64	0.00
26	TM	24Dimthpheno	0.279	0.285	-2.2	62	0.00
27	TM	bis2clethoxym	0.375	0.393	-4.8	66	0.00
28	CTM	24Diclphenol	0.261	0.274	-5.0	64	0.00
29	TM	124Triclbenz	0.323	0.333	-3.1	64	0.00
30	TM	Benzoic acid	0.175	0.155	11.4	53	0.00
31	TM	Naphthalene	1.021	1.082	-6.0	66	0.00
32	TM	4-Cl-aniline	0.383	0.430	-12.3	69	0.00
33	TM	26Diclphenol	0.236	0.255	-8.1	64	0.00
34	TM	Hexaclprop	0.166	0.168	-1.2	61	0.00
35	CTM	Hexaclbutdien	0.152	0.149	2.0	61	0.00
36	CTM	4Cl3methylphe	0.250	0.259	-3.6	62	0.00
37	TM	2Methylnaphth	0.570	0.585	-2.6	63	0.00
38	TM	1Methylnaphth	0.591	0.608	-2.9	63	0.00
39	I	Acenaphthened10	1.000	1.000	0.0	57	0.00
40	PTM	Hxclcycpentdi	0.310	0.344	-11.0	59	0.00
41	TM	1245Tetrclbenz	0.533	0.561	-5.3	60	0.00
42	CTM	246Triclpheno	0.351	0.376	-7.1	59	0.00
43	TM	245Triclpheno	0.373	0.411	-10.2	61	0.00
44	S	SURR2Flbiphenyl	0.262	0.283	-8.0	61	0.00
45	TM	2Clnaphthalen	1.155	1.282	-11.0	62	0.00
46	TM	2Nitroaniline	0.270	0.305	-13.0	62	0.00
47	TM	Acnaphthylene	1.979	2.178	-10.1	62	0.00
48	TM	Dimethylphtha	1.358	1.360	-0.1	56	0.00
49	TM	26Dinitrotolu	0.294	0.307	-4.4	58	0.00
50	CTM	Acenaphthene	1.244	1.338	-7.6	61	0.00
51	TM	3Nitroaniline	0.314	0.386	-22.9#	70	0.00

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S120510\2CCV47.D Vial: 2
Acq On : 5 Dec 2010 13:01 Operator: RPN
Sample : CCV 20ug/ml SVMS4688 Inst : SVMS2
Misc : Addl.Comp.,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 14 11:26:26 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Tue Dec 14 11:26:19 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
52	PTM	24Dinitphenol	0.164	0.166	-1.2	56	0.00
53	TM	Dibenzofuran	1.619	1.741	-7.5	61	0.00
54	TM	24Dinitrotolu	0.364	0.401	-10.2	59	0.00
55	PTM	4-Nitrophenol	0.101	0.107	-5.9	62	0.00
56	TM	2,3,5,6-Tetrachlorop	0.262	0.272	-3.8	54	0.00
57	TM	2,3,4,6-Tetrachlorop	0.277	0.296	-6.9	57	0.00
58	TM	Fluorene	1.306	1.364	-4.4	60	0.00
59	TM	4Clphlphlethr	0.581	0.613	-5.5	60	0.00
60	TM	Diethylphthal	1.370	1.361	0.7	56	0.00
61	TM	4Nitroaniline	0.308	0.376	-22.1#	69	0.00
62	S	SURR246Tribrphenl	0.060	0.060	0.0	53	0.00
63	I	Phenanthrd10	1.000	1.000	0.0	57	0.00
64	TM	46Dinit2mylph	0.145	0.147	-1.4	56	0.00
65	CTM	Ntrsdiphlam&Diphlam	0.594	0.635	-6.9	60	0.00
66	TM	Azobenz&12Diphlhyd	0.224	0.239	-6.7	60	0.00
67	TM	4Brphlphlethr	0.217	0.219	-0.9	57	0.00
68	TM	Hexaclbenzene	0.225	0.226	-0.4	57	0.00
69	CTM	Pentaclphenol	0.107	0.101	5.6	53	0.00
70	TM	Phenanthrene	1.060	1.121	-5.8	60	0.00
71	TM	Anthracene	1.075	1.153	-7.3	61	0.00
72	TM	Carbazole	0.911	1.019	-11.9	64	0.00
73	TM	Dinbtylphthal	1.230	1.219	0.9	55	0.00
74	CTM	Fluoranthene	1.070	1.064	0.6	56	0.00
75	I	Chrysene-d12	1.000	1.000	0.0	50#	0.00
76	TM	Benzidine	0.336	0.511	-52.1#	90	0.00
77	TM	Pyrene	1.193	1.327	-11.2	56	0.00
78	S	SURRTerphenyl-d14	0.145	0.151	-4.1	52	0.00
79	TM	Btylbzylphth	0.580	0.600	-3.4	51	0.00
80	TM	33Diclbnzidin	0.255	0.337	-32.2#	74	0.00
81	TM	B[a]anthracen	1.112	1.179	-6.0	53	0.00
82	TM	Chrysene	1.066	1.096	-2.8	51	0.00
83	TM	bis2Ethlhxlph	0.843	0.860	-2.0	50#	0.00
84	CTM	Dinoctylphthl	1.498	1.511	-0.9	49#	0.00
85	I	Perylene-d12	1.000	1.000	0.0	48#	0.00
86	TM	B[b]fluoranth	1.178	1.181	-0.3	47#	0.00
87	TM	B[k]fluoranth	1.113	1.261	-13.3	54	0.00
88	CTM	Benz[a]pyrene	1.075	1.135	-5.6	49#	0.00
89	TM	Indeno-pyrene	1.092	1.210	-10.8	51	0.00
90	TM	Dib[ah]anthr	0.886	0.973	-9.8	51	0.00
91	TM	B[ghi]perylen	0.907	1.005	-10.8	52	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120510\2CCV47.D Vial: 2
Acq On : 5 Dec 2010 13:01 Operator: RPN
Sample : CCV 20ug/ml SVMS4688 Inst : SVMS2
Misc : Addl.Comp.,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 14 11:26:26 2010

RPN 12/14/10

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Tue Dec 14 11:26:19 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.420	152	311650	20.00	ug/mL	0.00
21) Naphthalened8	6.068	136	1384541	20.00	ug/mL	0.00
39) Acenaphthened10	7.574	164	668026	20.00	ug/mL	0.00
63) Phenanthrd10	8.477	188	973359	20.00	ug/mL	0.00
75) Chrysene-d12	9.932	240	795003	20.00	ug/mL	0.00
85) Perylene-d12	10.895	264	675578	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	3.147	112	425114	54.79	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery = 54.79%			
7) SURRPhenol-d5	3.985	99	517451	55.52	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 55.52%			
22) SURRNitrbenzened5	5.116	82	362252	108.42	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 108.42%			
44) SURR2Flbiphenyl	7.088	172	945939	108.23	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 108.23%			
62) SURR246Tribrphenl	8.088	330	99905	49.46	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 49.46%			
78) SURRTerphenyl-d14	9.276	244	601494	104.16	ug/mL	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 104.16%			
Target Compounds						Qvalue
2) Ntrsdimeth	2.317	74	257435	23.2633	ug/mL	76
3) Pyridine	2.345	79	447467	22.7600	ug/mL	91
5) Aniline	4.047	93	637291	21.2137	ug/mL	90
6) bis2Clethletr	4.116	93	396420	21.2593	ug/mL	96
8) Phenol	3.999	94	503124	21.9027	ug/mL	84
9) 2-Cl-phenol	4.172	128	450060	21.5111	ug/mL	100
10) 13Diclbenz	4.349	146	505905	20.9336	ug/mL	96
11) 14Diclbenz	4.437	146	521244	21.2272	ug/mL	97
12) 12Diclbenz	4.616	146	485666	20.8457	ug/mL	95
13) Benzyl alcoho	4.582	108	191597	17.9995	ug/mL	80
14) bis2clispreth	4.758	45	730279	20.5620	ug/mL	95
15) 2Methylphenol	4.715	108	368538	20.9812	ug/mL	98
16) Ntrspyrrol	4.894	100	198838	21.4176	ug/mL	82
17) Acetophenone	4.920	105	549052	20.9480	ug/mL	83
18) Hexaclethane	5.042	117	168519	20.5731	ug/mL	93
19) N-Ntrsdinprop	4.925	70	234862	20.0201	ug/mL	97
20) 3&4Methylphenol	4.920	108	388535	22.1792	ug/mL	98
23) Nitrobenzene	5.144	77	378259	22.1612	ug/mL	82
24) Isophorone	5.499	82	789265	20.9493	ug/mL	96
25) 2-Nitrophenol	5.602	139	268720	21.0558	ug/mL	77
26) 24Dimthpheno	5.678	107	394595	20.4035	ug/mL	82
27) bis2clethoxym	5.812	93	543522	20.9249	ug/mL	90
28) 24Diclphenol	5.909	162	379464	21.0132	ug/mL	99
29) 124Triclbenz	6.005	180	461477	20.6399	ug/mL	100
30) Benzoic acid	5.795	105	214466	17.0403	ug/mL	85
31) Naphthalene	6.090	128	1497795	21.1970	ug/mL	99
32) 4-Cl-aniline	6.167	127	595692	22.4740	ug/mL	91
33) 26Diclphenol	6.167	162	352629	21.5658	ug/mL	97
34) Hexaclprop	6.187	213	232644	20.2331	ug/mL	98
35) Hexaclbutdien	6.232	225	205684	19.5660	ug/mL	99
36) 4Cl3methylphe	6.661	107	358347	20.7469	ug/mL	90
37) 2Methylnaphth	6.778	141	810286	20.5431	ug/mL	99
38) 1Methylnaphth	6.860	141	842450	20.5786	ug/mL	96
40) Hxclcycpentdi	6.912	237	229534	20.6187	ug/mL	99

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120510\2CCV47.D Vial: 2
Acq On : 5 Dec 2010 13:01 Operator: RPN
Sample : CCV 20ug/ml SVMS4688 Inst : SVMS2
Misc : Addl.Comp.,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 14 11:26:26 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Tue Dec 14 11:26:19 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

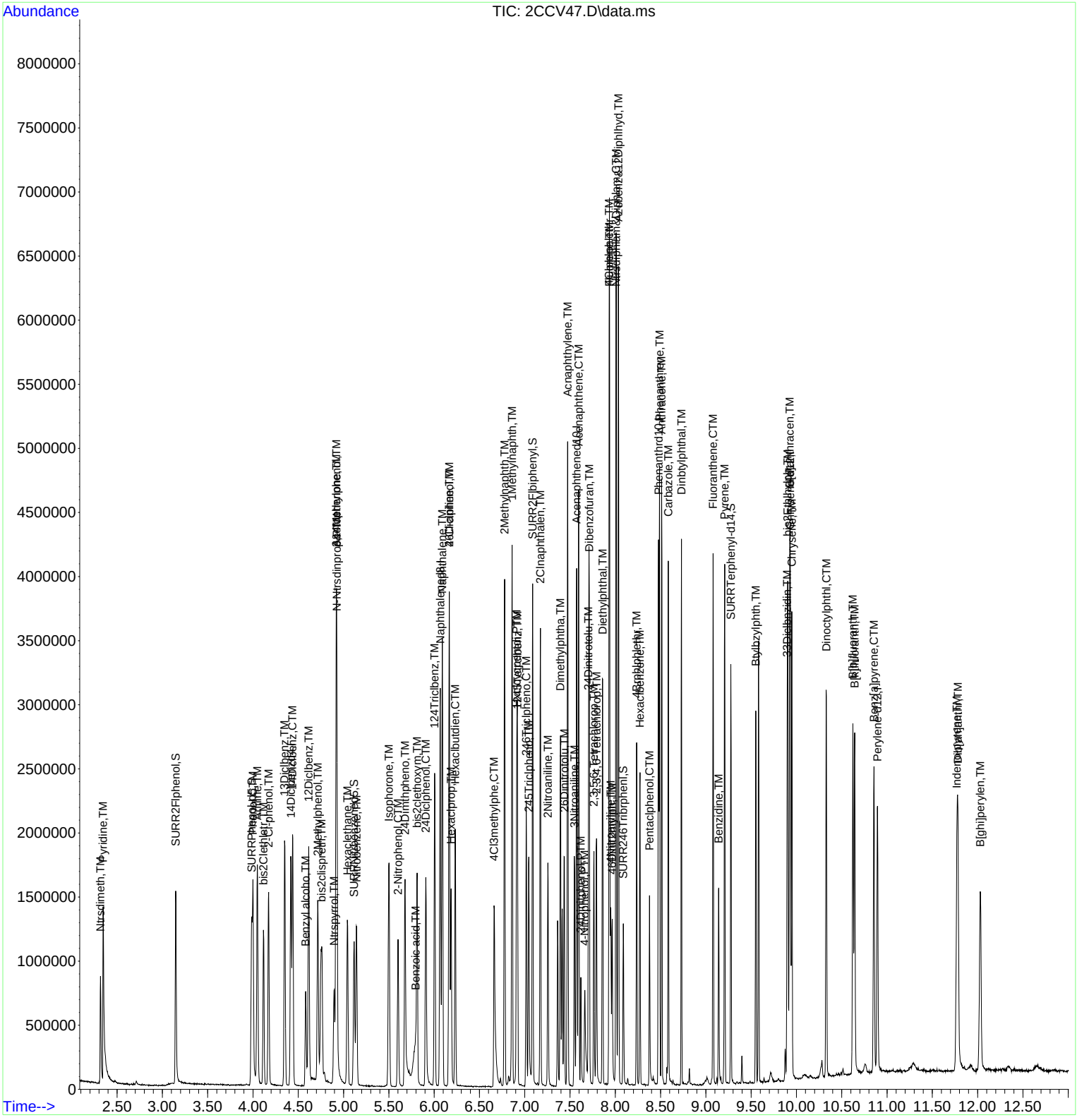
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	6.920	216	375056	21.0788 ug/mL	97
42) 246Triclpheno	7.017	196	251405	21.4507 ug/mL	91
43) 245Triclpheno	7.045	196	274642	22.0626 ug/mL	99
45) 2Clnaphthalen	7.173	162	856337	22.1907 ug/mL	97
46) 2Nitroaniline	7.255	65	203665	22.6025 ug/mL#	70
47) Acnaphthylene	7.474	152	1454916	22.0063 ug/mL	99
48) Dimethylphtha	7.395	163	908390	20.0311 ug/mL	99
49) 26Dinitrotolu	7.437	165	205232	20.9224 ug/mL	83
50) Acenaphthene	7.596	153	893814	21.5035 ug/mL	100
51) 3Nitroaniline	7.551	138	257919	24.5671 ug/mL	84
52) 24Dinitphenol	7.619	184	111165	19.2388 ug/mL	74
53) Dibenzofuran	7.713	168	1163135	21.5062 ug/mL	91
54) 24Dinitrotolu	7.704	165	267602	22.0379 ug/mL	85
55) 4-Nitrophenol	7.662	109	71621	21.2882 ug/mL	77
56) 2,3,5,6-Tetrachlorop	7.764	232	181486	19.1881 ug/mL	98
57) 2,3,4,6-Tetrachlorop	7.792	232	197586	19.8946 ug/mL	98
58) Fluorene	7.934	166	911186	20.8941 ug/mL	98
59) 4Clphlphlethr	7.932	204	409688	21.1196 ug/mL	96
60) Diethylphthal	7.861	149	908861	19.8556 ug/mL	98
61) 4Nitroaniline	7.949	138	251051	24.3661 ug/mL#	72
64) 46Dinit2mylph	7.966	198	143513	20.3470 ug/mL	89
65) Ntrsdiphlam&Diphlam	8.008	169	1235526	42.7350 ug/mL	99
66) Azobenz&12Diphlhyd	8.034	182	464873	42.5621 ug/mL#	80
67) 4Brphlphlethr	8.236	248	213598	20.2225 ug/mL	91
68) Hexaclbenzene	8.273	284	219736	20.0563 ug/mL	94
69) Pentaclphenol	8.378	266	98525	18.3475 ug/mL	93
70) Phenanthrene	8.489	178	1090881	21.1363 ug/mL	98
71) Anthracene	8.511	178	1122436	21.4509 ug/mL	98
72) Carbazole	8.585	167	992054	22.3797 ug/mL	99
73) Dinbtylphthal	8.730	149	1186423	19.8230 ug/mL	98
74) Fluoranthene	9.080	202	1036134	19.8942 ug/mL	99
76) Benzidine	9.142	184	406470	31.6553 ug/mL	98
77) Pyrene	9.207	202	1054633	22.2455 ug/mL	97
79) Btylbzylphth	9.551	149	476915	20.6891 ug/mL	88
80) 33Diclbnzidin	9.898	252	267598	28.4768 ug/mL	98
81) B[a]anthracen	9.926	228	936942	21.1913 ug/mL	98
82) Chrysene	9.949	228	871342	20.5691 ug/mL	99
83) bis2Ethlhxlph	9.904	149	683996	20.4162 ug/mL	99
84) Dinoctylphthl	10.330	149	1201450	20.1829 ug/mL	98
86) B[b]fluoranth	10.622	252	797756	20.0472 ug/mL	97
87) B[k]fluoranth	10.642	252	851913	22.6641 ug/mL	98
88) Benz[a]pyrene	10.855	252	766784	21.1114 ug/mL	97
89) Indeno-pyrene	11.770	276	817152	22.1572 ug/mL	99
90) Dib[ah]anthr	11.782	278	657203	21.9631 ug/mL	97
91) B[ghi]perylen	12.029	276	678854	22.1606 ug/mL	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120510\2CCV47.D Vial: 2
Acq On : 5 Dec 2010 13:01 Operator: RPN
Sample : CCV 20ug/ml SVMS4688 Inst : SVMS2
Misc : Addl.Comp.,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 14 11:26:26 2010

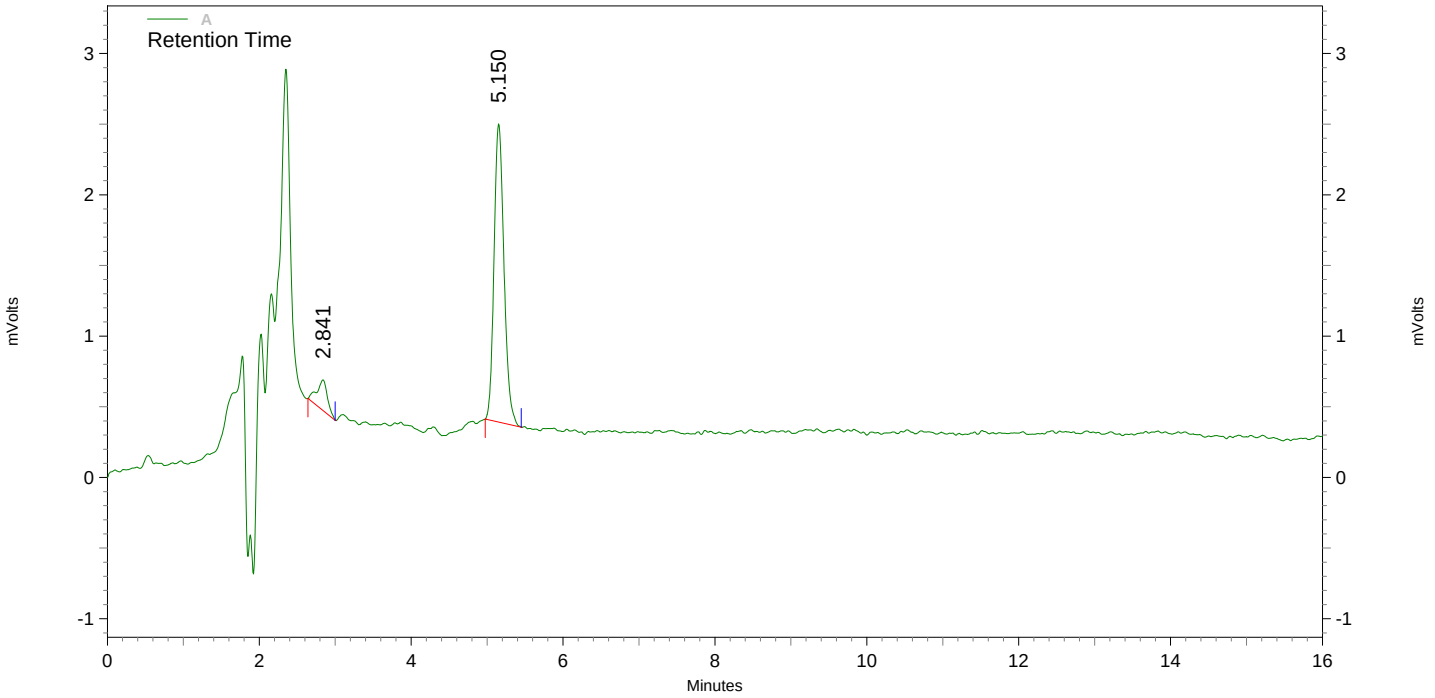
Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Tue Dec 14 11:26:19 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

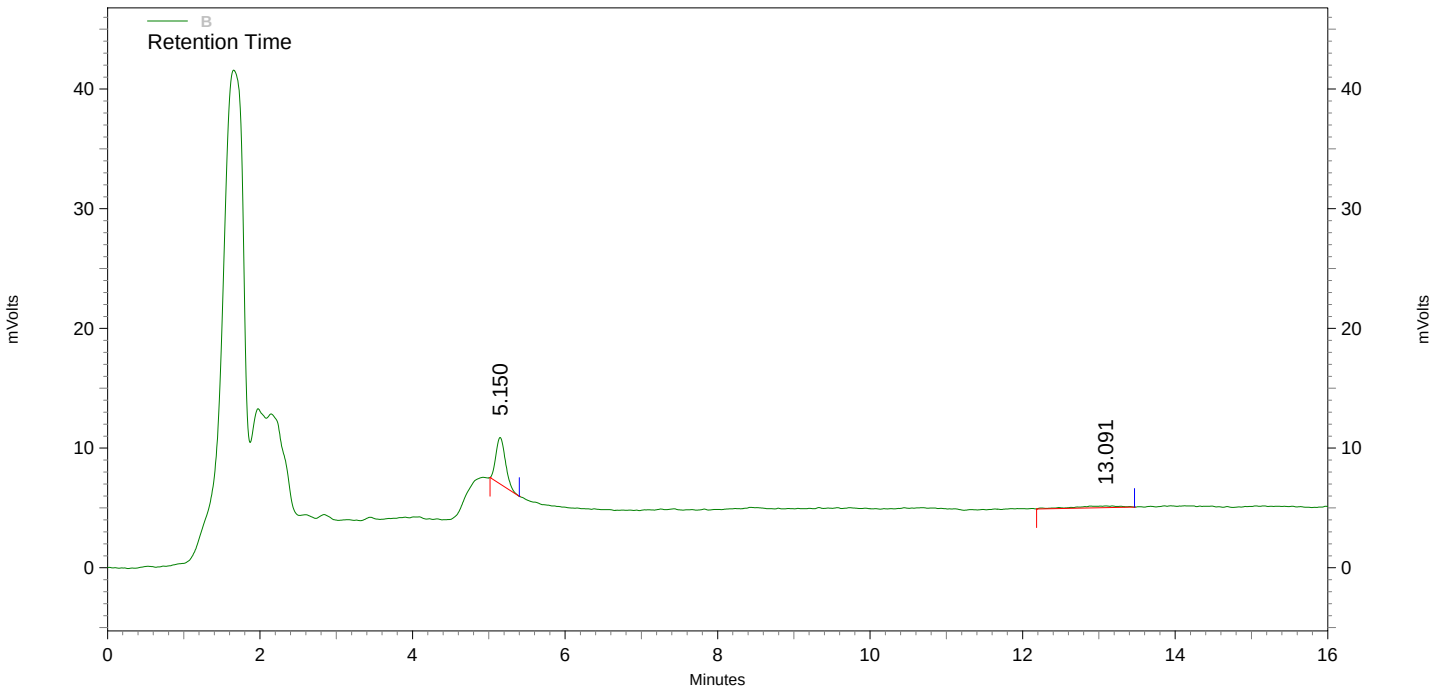


SEMI - VOLATILE ORGANIC ANALYSIS
QUALITY CONTROL
DOCUMENTS

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\8330A_B\121310exp-primary\003.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\121310exp-primary.met
Sample ID: 72413,875951,,mbs
Acquired: Dec 14, 2010 09:58:00
Data Summary: {Data Description}





A Results

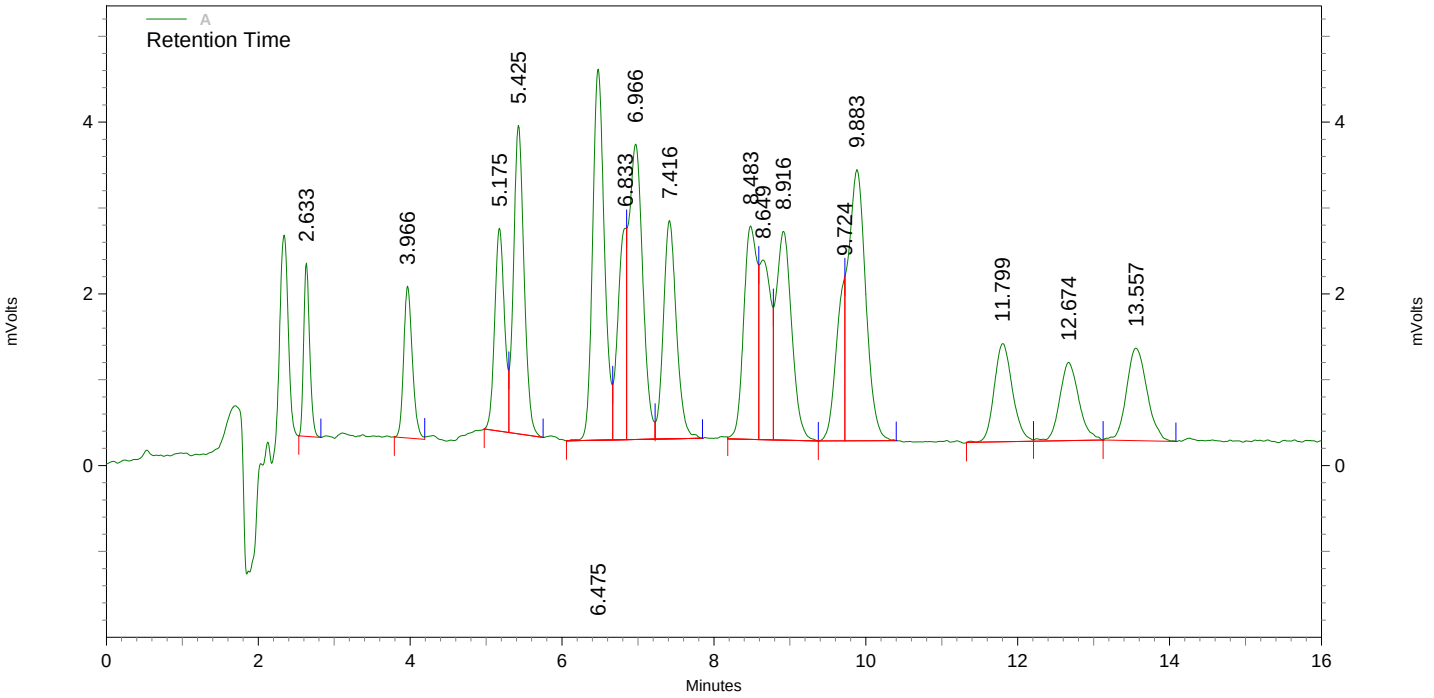
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX			**0.000 BDL**
RDX			**0.000 BDL**
12-DNB (SSTD)	5.150	19168	**106.256**
135-TNB			**0.000 BDL**
13-DNB			**0.000 BDL**
TETRYL			**0.000 BDL**
35-DNA			**0.000 BDL**
NB			**0.000 BDL**
246-TNT			**0.000 BDL**
4-AM-26-DNT			**0.000 BDL**
2-AM-46-DNT			**0.000 BDL**
2-NT			**0.000 BDL**
4-NT			**0.000 BDL**
3-NT			**0.000 BDL**

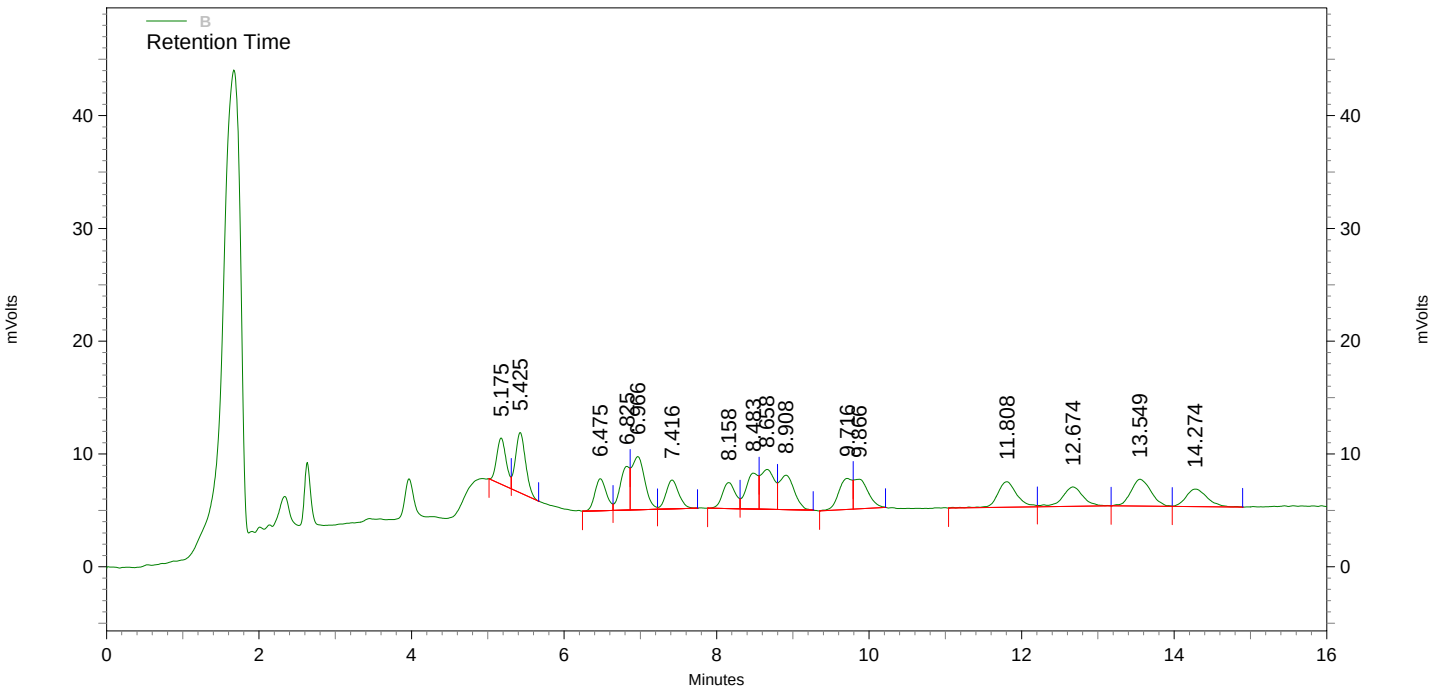
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG			**0.000 BDL**
26-DNT			**0.000 BDL**
24-DNT			**0.000 BDL**
PETN			**0.000 BDL**

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\8330A_B\121310exp-primary\004.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\121310exp-primary.met
Sample ID: 72413,875952,,lcss
Acquired: Dec 14, 2010 10:21:12
Data Summary: {Data Description}





A Results

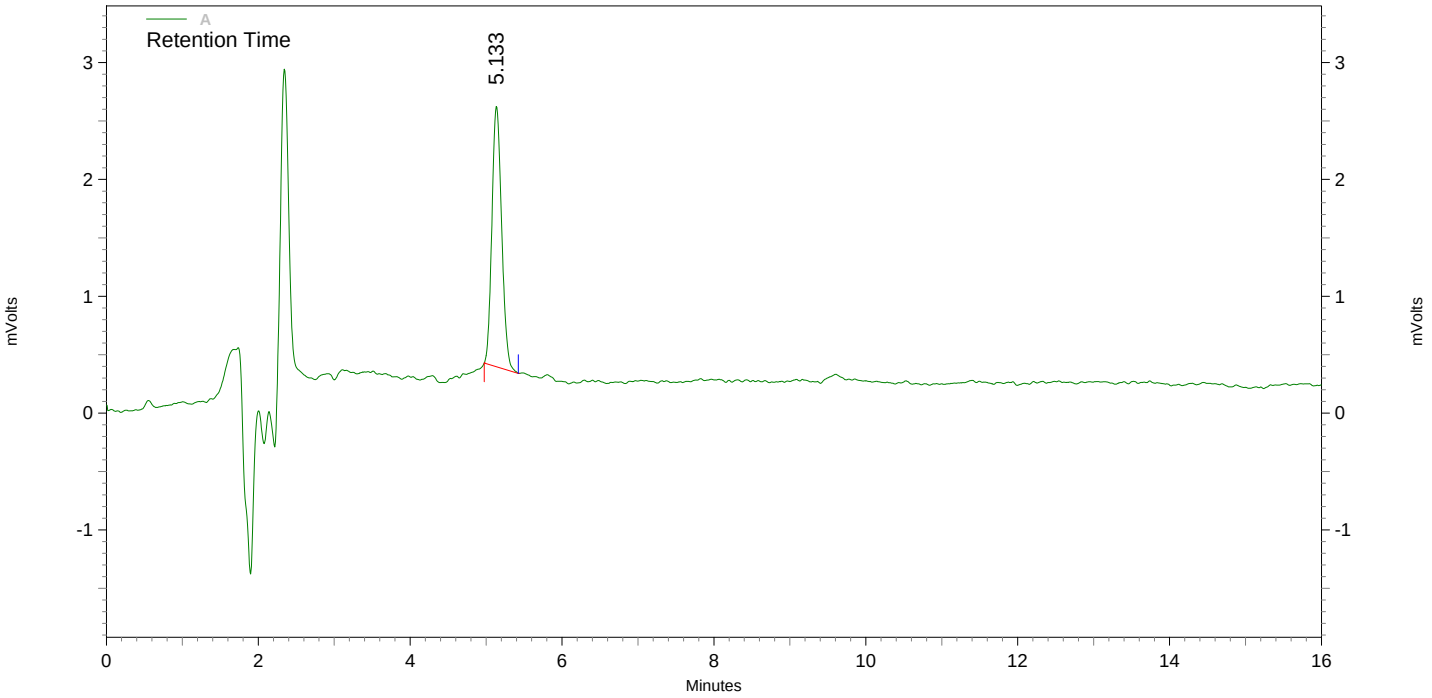
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX	2.633	11160	**0.485**
RDX	3.966	14069	**0.471**
12-DNB (SSTD)	5.175	21233	**118.043**
135-TNB	5.425	34603	**0.514**
13-DNB	6.475	46603	**0.537**
TETRYL	6.833	18891	**0.428**
35-DNA	6.966	43933	**0.570**
NB	7.416	30584	**0.541**
246-TNT	8.483	30377	**0.465**
4-AM-26-DNT	8.649	21914	**0.535**
2-AM-46-DNT	8.916	34679	**0.517**
2-NT	11.799	19051	**0.527**
4-NT	12.674	16007	**0.525**
3-NT	13.557	20294	**0.531**

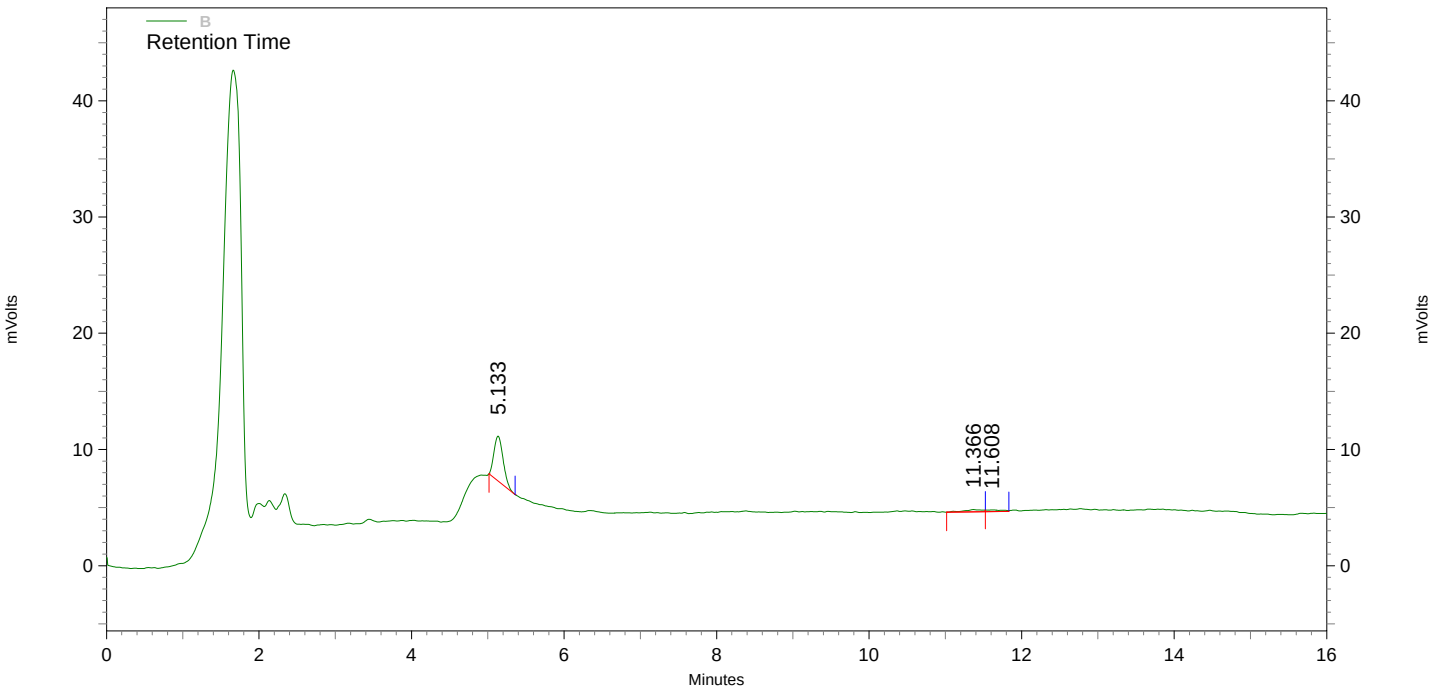
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG	8.158	27427	**0.977**
26-DNT	9.716	33601	**0.496**
24-DNT	9.866	33957	**0.558**
PETN	14.274	29843	**0.938**

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\8330A_B\121310exp-primary\005.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\121310exp-primary.met
Sample ID: 72413,870201,
Acquired: Dec 14, 2010 10:44:23
Data Summary: {Data Description}





A Results

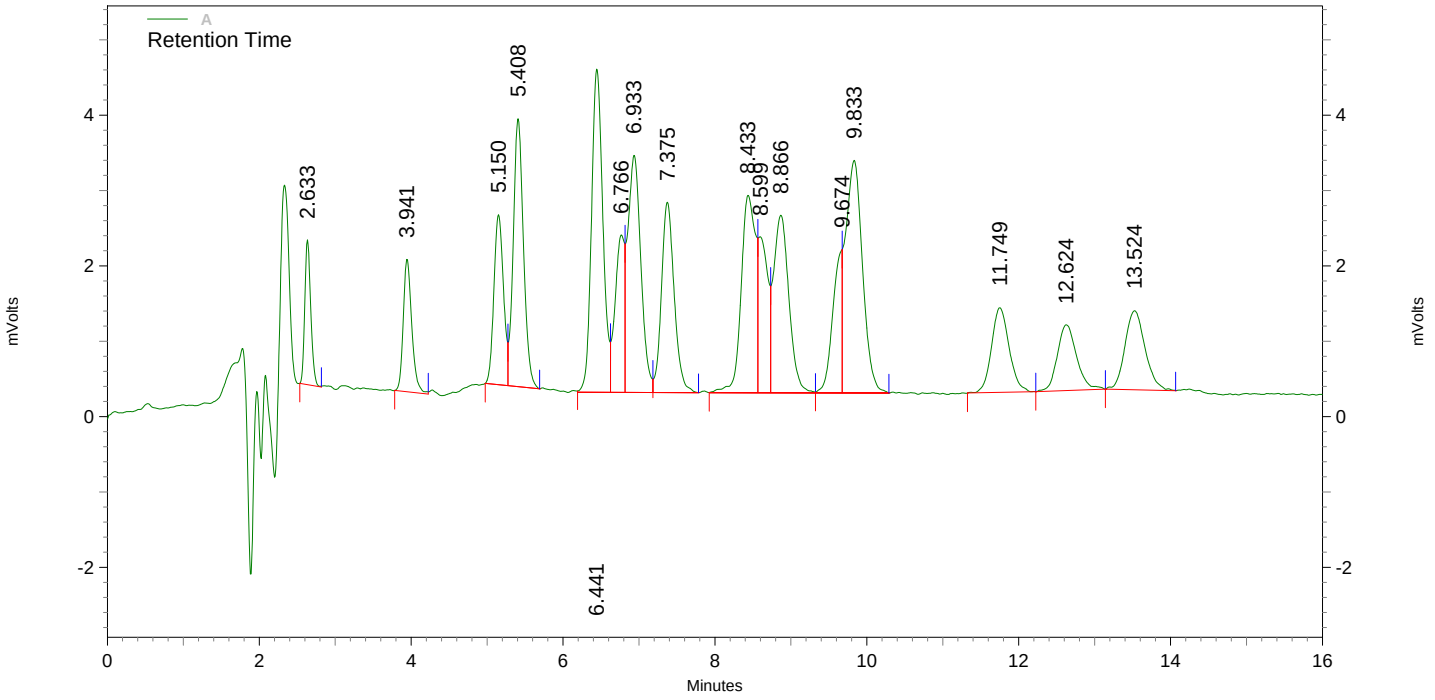
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX			**0.000 BDL**
RDX			**0.000 BDL**
12-DNB (SSTD)	5.133	19814	**109.943**
135-TNB			**0.000 BDL**
13-DNB			**0.000 BDL**
TETRYL			**0.000 BDL**
35-DNA			**0.000 BDL**
NB			**0.000 BDL**
246-TNT			**0.000 BDL**
4-AM-26-DNT			**0.000 BDL**
2-AM-46-DNT			**0.000 BDL**
2-NT			**0.000 BDL**
4-NT			**0.000 BDL**
3-NT			**0.000 BDL**

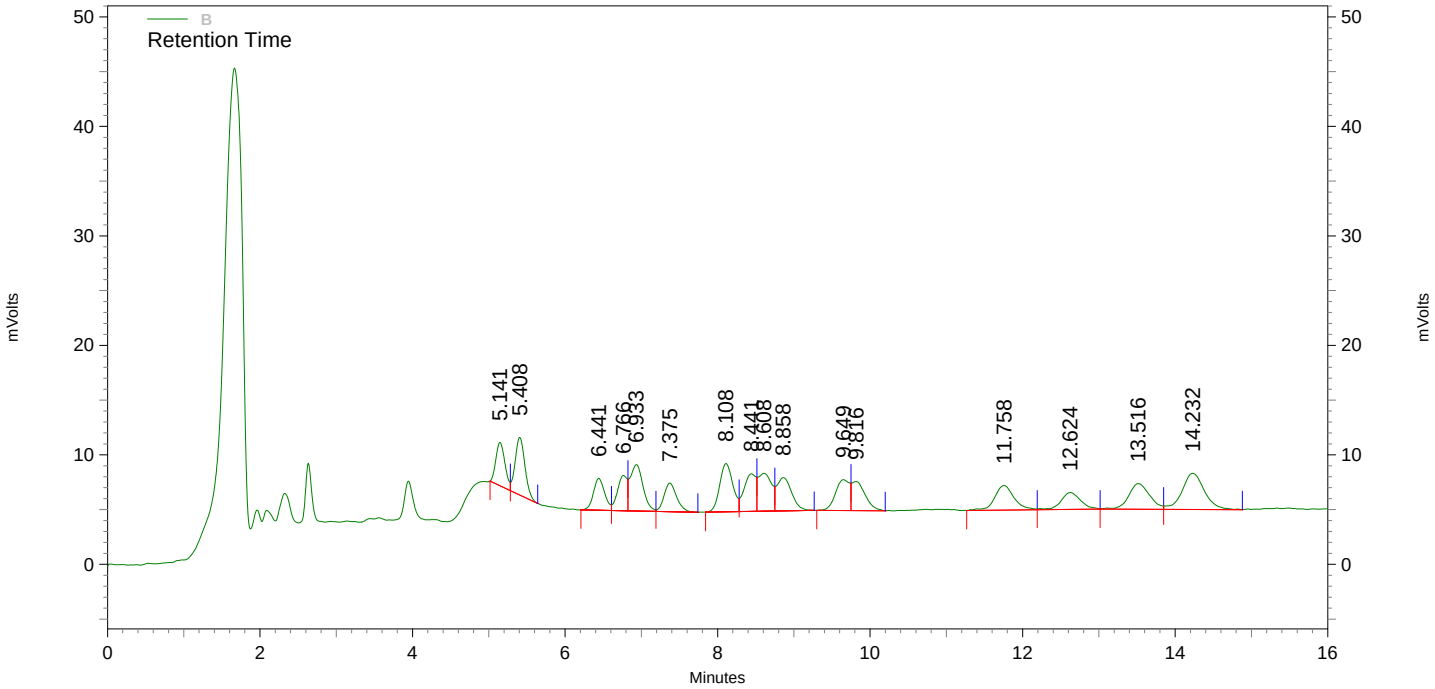
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG			**0.000 BDL**
26-DNT			**0.000 BDL**
24-DNT			**0.000 BDL**
PETN			**0.000 BDL**

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\8330A_B\121310exp-primary\006.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\121310exp-primary.met
Sample ID: 72413,875953,,mss
Acquired: Dec 14, 2010 11:07:34
Data Summary: {Data Description}





A Results

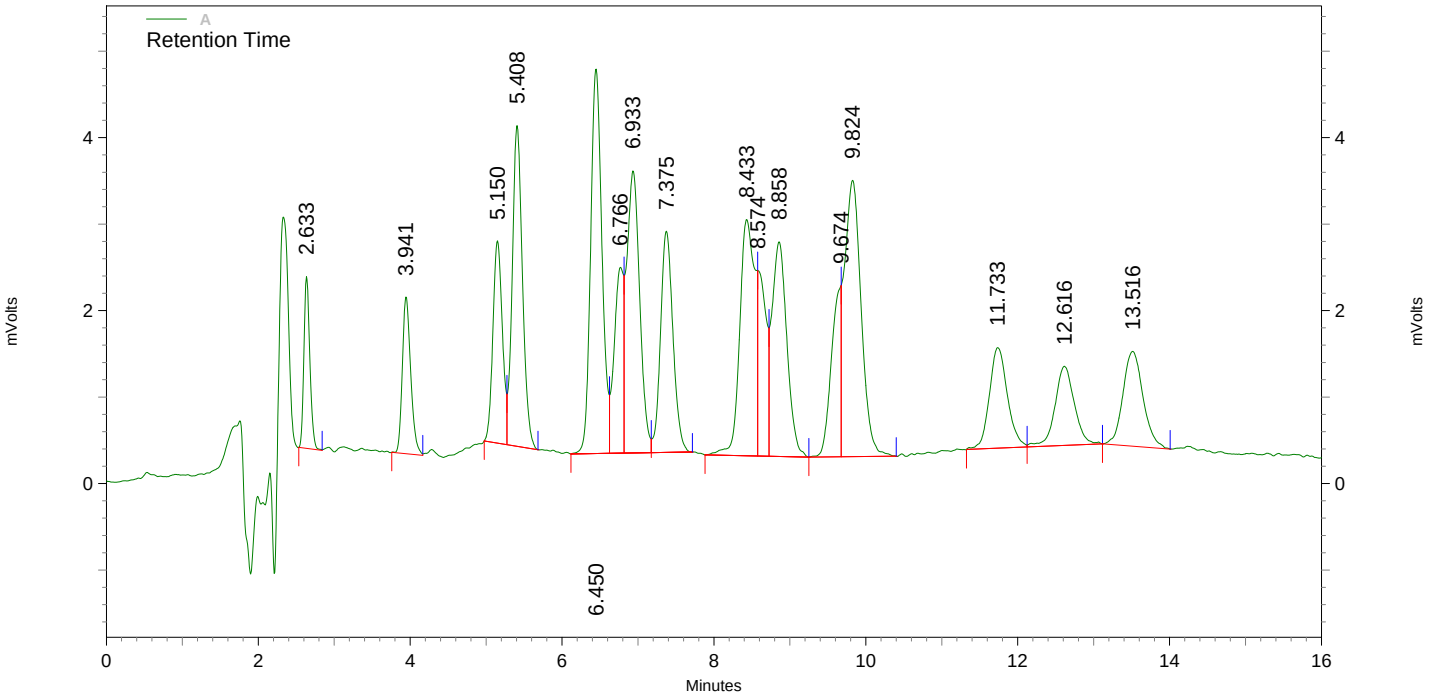
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX	2.633	10530	**0.458**
RDX	3.941	13775	**0.461**
12-DNB (SSTD)	5.150	19701	**109.298**
135-TNB	5.408	33383	**0.496**
13-DNB	6.441	44645	**0.514**
TETRYL	6.766	17818	**0.402**
35-DNA	6.933	37985	**0.493**
NB	7.375	29422	**0.520**
246-TNT	8.433	34794	**0.534**
4-AM-26-DNT	8.599	18151	**0.438**
2-AM-46-DNT	8.866	33116	**0.492**
2-NT	11.749	18104	**0.500**
4-NT	12.624	15336	**0.502**
3-NT	13.524	19324	**0.504**

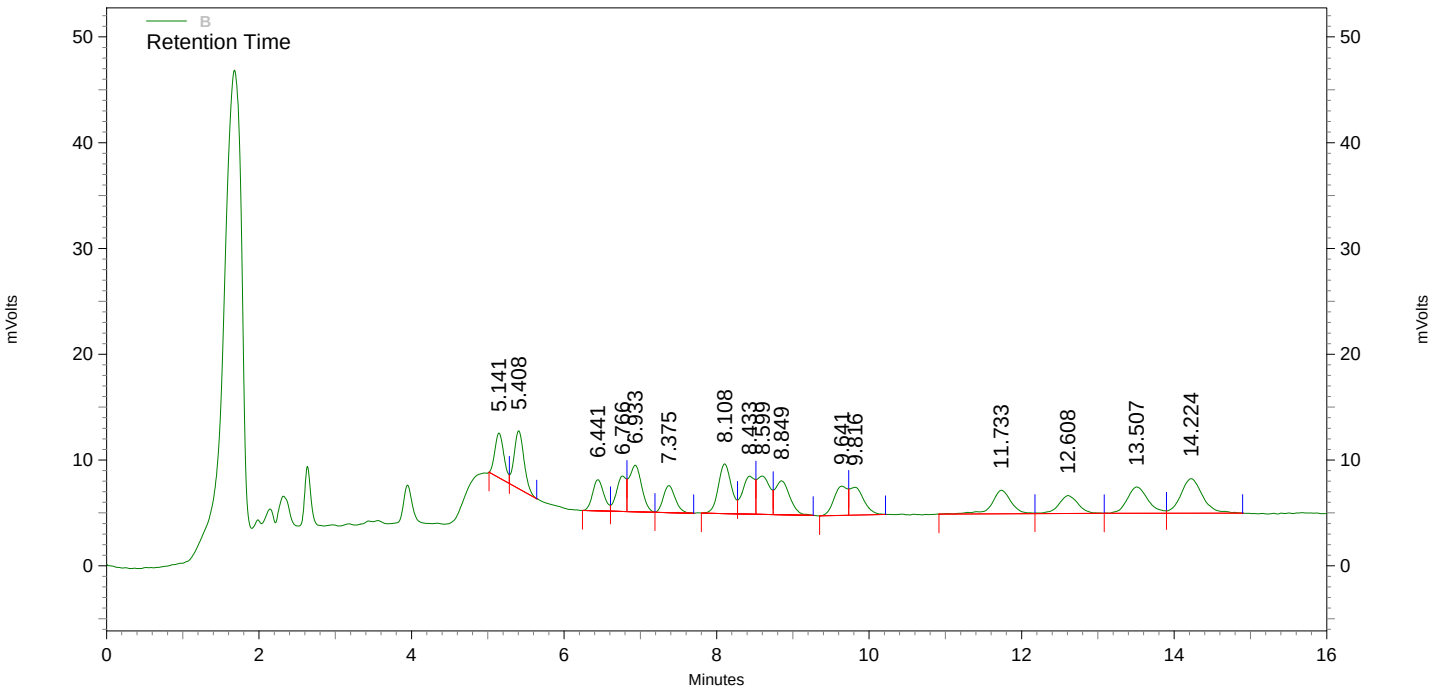
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG	8.108	53184	**1.981**
26-DNT	9.649	36185	**0.535**
24-DNT	9.816	32646	**0.536**
PETN	14.232	67543	**2.255**

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\8330A_B\121310exp-primary\007.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\121310exp-primary.met
Sample ID: 72413,875954,,msds
Acquired: Dec 14, 2010 11:30:45
Data Summary: {Data Description}





A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX	2.633	10855	**0.472**
RDX	3.941	13935	**0.466**
12-DNB (SSTD)	5.150	20217	**112.243**
135-TNB	5.408	34725	**0.516**
13-DNB	6.450	46109	**0.531**
TETRYL	6.766	18236	**0.412**
35-DNA	6.933	38955	**0.506**
NB	7.375	29206	**0.516**
246-TNT	8.433	38104	**0.586**
4-AM-26-DNT	8.574	16653	**0.399**
2-AM-46-DNT	8.858	33982	**0.506**
2-NT	11.733	19182	**0.531**
4-NT	12.616	16267	**0.534**
3-NT	13.516	20160	**0.527**

B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG	8.108	56174	**2.098**
26-DNT	9.641	33969	**0.501**
24-DNT	9.816	34047	**0.560**
PETN	14.224	64819	**2.160**

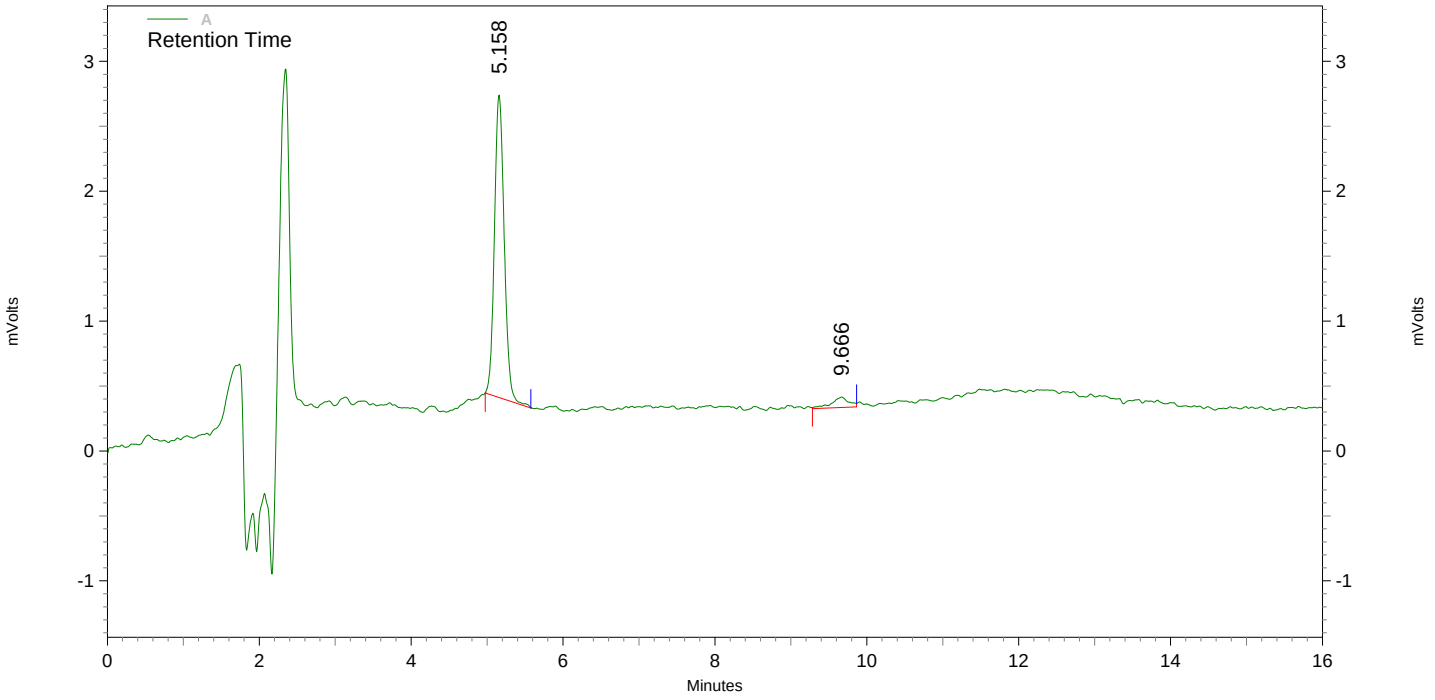
Triplicate Sample Analysis Relative Standard Deviation Calculations

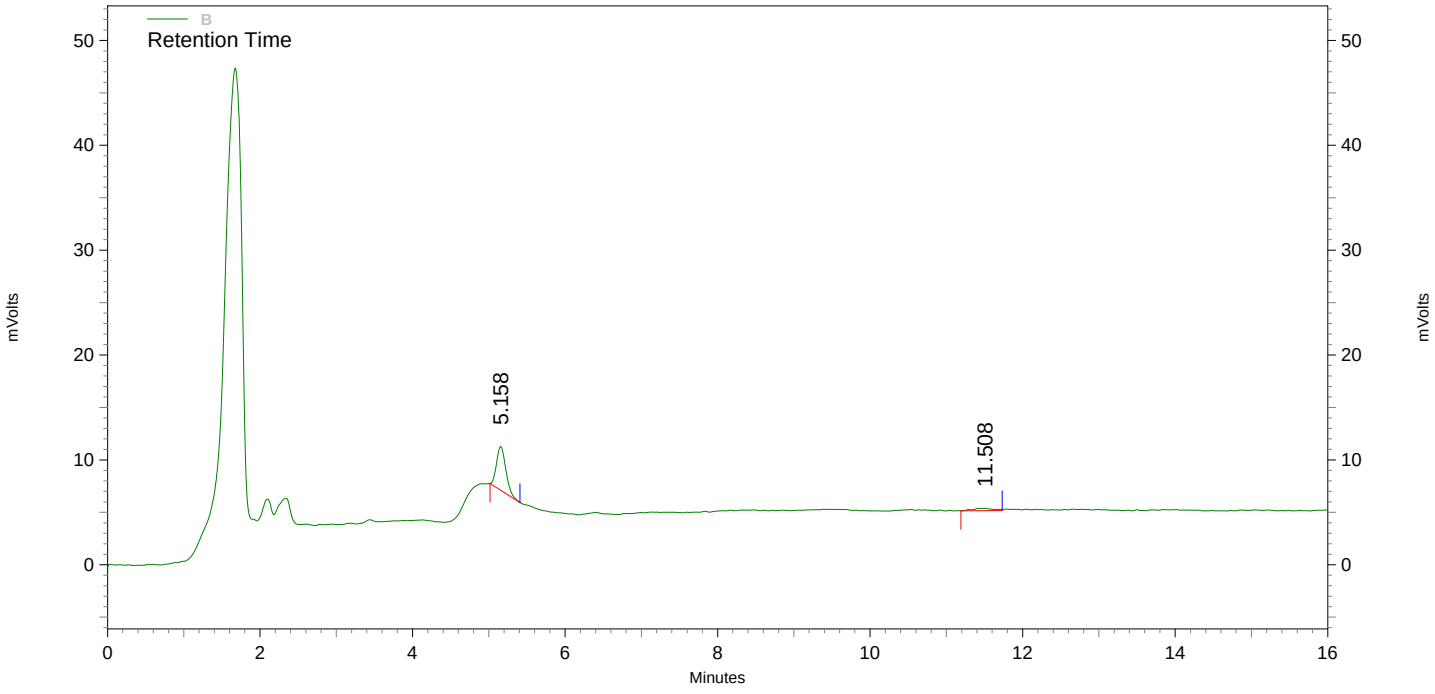
Analyst: red
Sample ID: **870201**
Analysis Date: 12/14/2010
Data path: C:\Instarch\Data\HPLC 2\8330A_B\121310exp-primary

	Analyte Concentration (ug/mL)						
Analyte	**Parent Sample**	**Duplicate Sample**	**Triplicate Sample**	**Mean Conc. (ug/mL)**	**Standard Deviation**	**%RSD**	**Flag (>20% RSD)**
HMX	0	0	0	0	0	#DIV/0!	#DIV/0!
RDX	0	0	0	0	0	#DIV/0!	#DIV/0!
1.3.5-Trinitrobenzne	0	0	0	0	0	#DIV/0!	#DIV/0!
1.2-Dinitrobenzene (SSTD)	109.943	115.817	117.689	114.483	4.0416328	3.530334	
1.3-Dinitrobenzene	0	0	0	0	0	#DIV/0!	#DIV/0!
tetryl	0	0	0	0	0	#DIV/0!	#DIV/0!
3,5-dinitroaniline	0	0	0	0	0	#DIV/0!	#DIV/0!
Nitrobenzene	0	0	0	0	0	#DIV/0!	#DIV/0!
2,4,6-Trinitrotoluene	0	0	0	0	0	#DIV/0!	#DIV/0!
2-amino-4,6-Dinitrotoluene	0	0	0	0	0	#DIV/0!	#DIV/0!
4-amino-2,6-Dinitrotoluene	0	0	0	0	0	#DIV/0!	#DIV/0!
2,6-Dinitrotoluene	0	0	0	0	0	#DIV/0!	#DIV/0!
2,4-Dinitrotoluene	0	0	0	0	0	#DIV/0!	#DIV/0!
2-Nitrotoluene	0	0	0	0	0	#DIV/0!	#DIV/0!
4-Nitrotoluene	0	0	0	0	0	#DIV/0!	#DIV/0!
3-Nitrotoluene	0	0	0	0	0	#DIV/0!	#DIV/0!
Nitroglycerin	0	0	0	0	0	#DIV/0!	#DIV/0!
PETN	0	0	0	0	0	#DIV/0!	#DIV/0!

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\8330A_B\121310exp-primary\008.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\121310exp-primary.met
Sample ID: 870201 dup
Acquired: Dec 14, 2010 11:53:56
Data Summary: {Data Description}





A Results

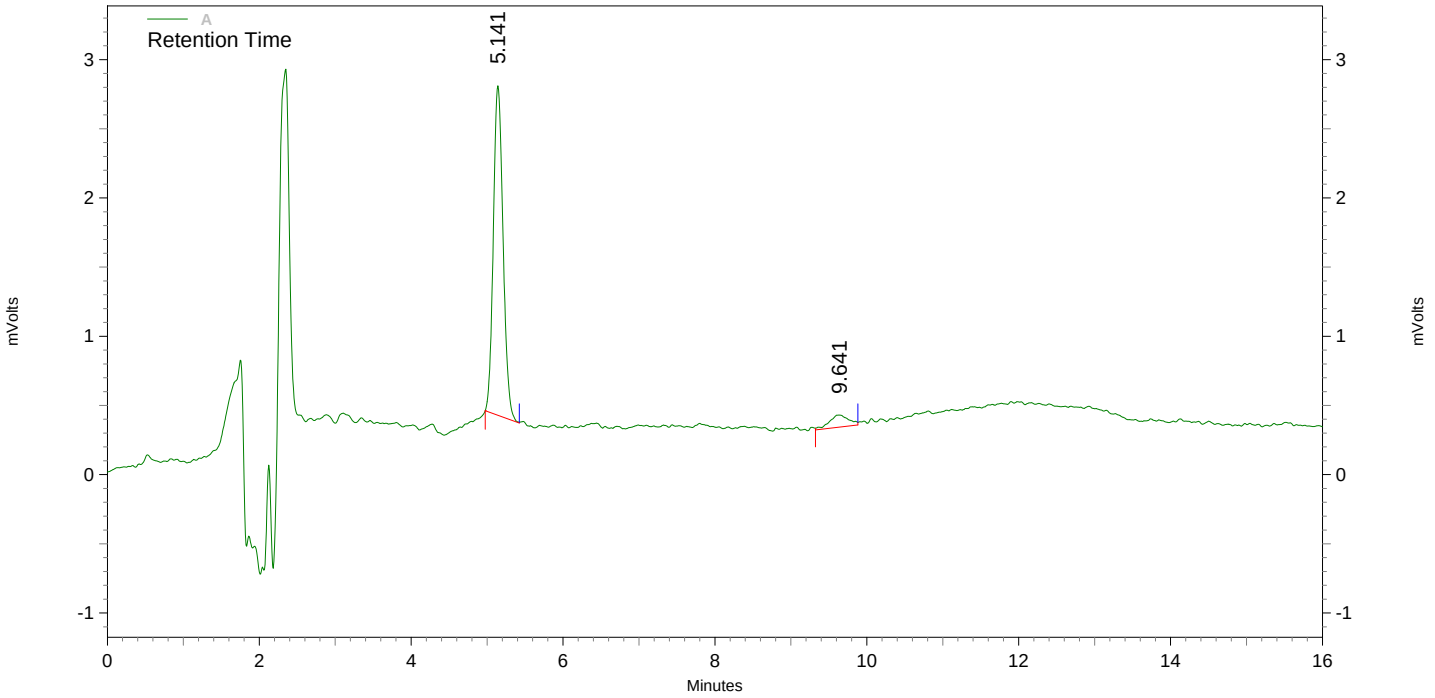
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX			**0.000 BDL**
RDX			**0.000 BDL**
12-DNB (SSTD)	5.158	20843	**115.817**
135-TNB			**0.000 BDL**
13-DNB			**0.000 BDL**
TETRYL			**0.000 BDL**
35-DNA			**0.000 BDL**
NB			**0.000 BDL**
246-TNT			**0.000 BDL**
4-AM-26-DNT			**0.000 BDL**
2-AM-46-DNT			**0.000 BDL**
2-NT			**0.000 BDL**
4-NT			**0.000 BDL**
3-NT			**0.000 BDL**

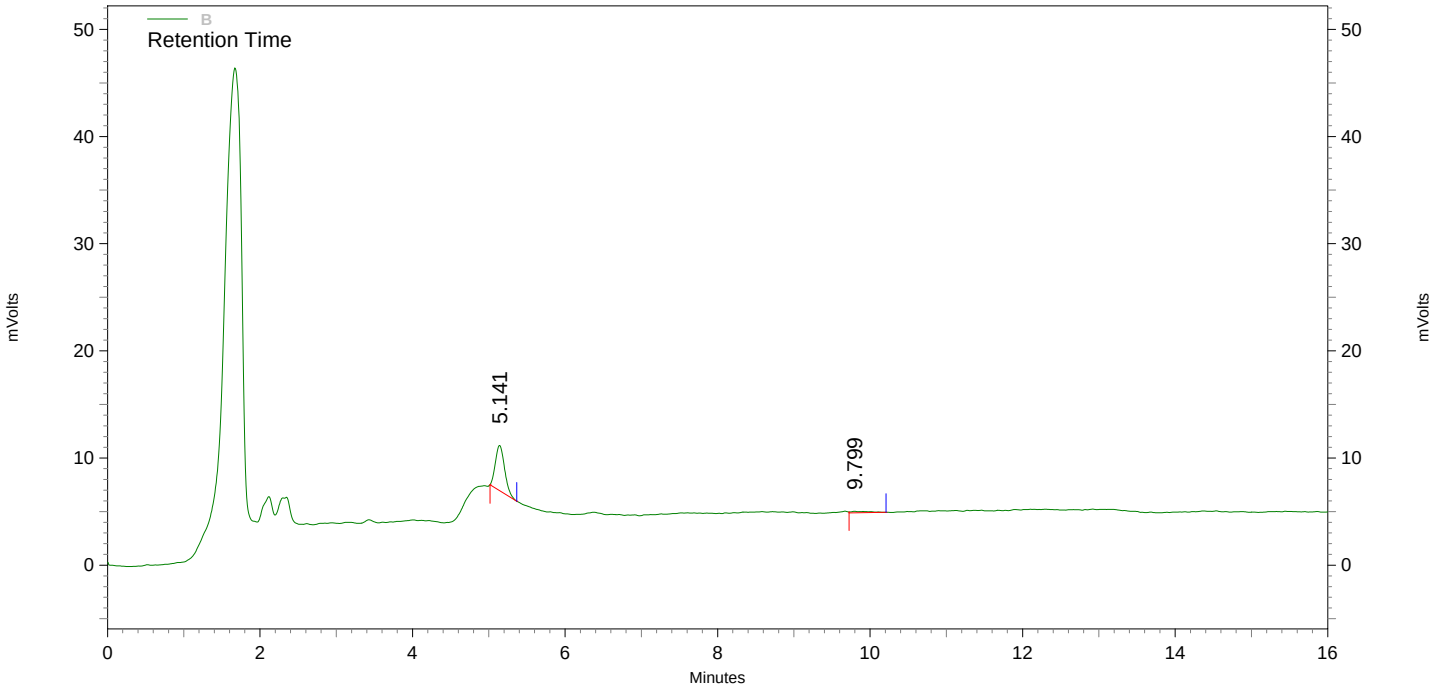
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG			**0.000 BDL**
26-DNT			**0.000 BDL**
24-DNT			**0.000 BDL**
PETN			**0.000 BDL**

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\8330A_B\121310exp-primary\009.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\8330A_B\primary\120710expic-primary\121310exp-primary.met
Sample ID: 870201 trip
Acquired: Dec 14, 2010 12:17:08
Data Summary: {Data Description}





A Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
HMX			**0.000 BDL**
RDX			**0.000 BDL**
12-DNB (SSTD)	5.141	21171	**117.689**
135-TNB			**0.000 BDL**
13-DNB			**0.000 BDL**
TETRYL			**0.000 BDL**
35-DNA			**0.000 BDL**
NB			**0.000 BDL**
246-TNT			**0.000 BDL**
4-AM-26-DNT			**0.000 BDL**
2-AM-46-DNT			**0.000 BDL**
2-NT			**0.000 BDL**
4-NT			**0.000 BDL**
3-NT			**0.000 BDL**

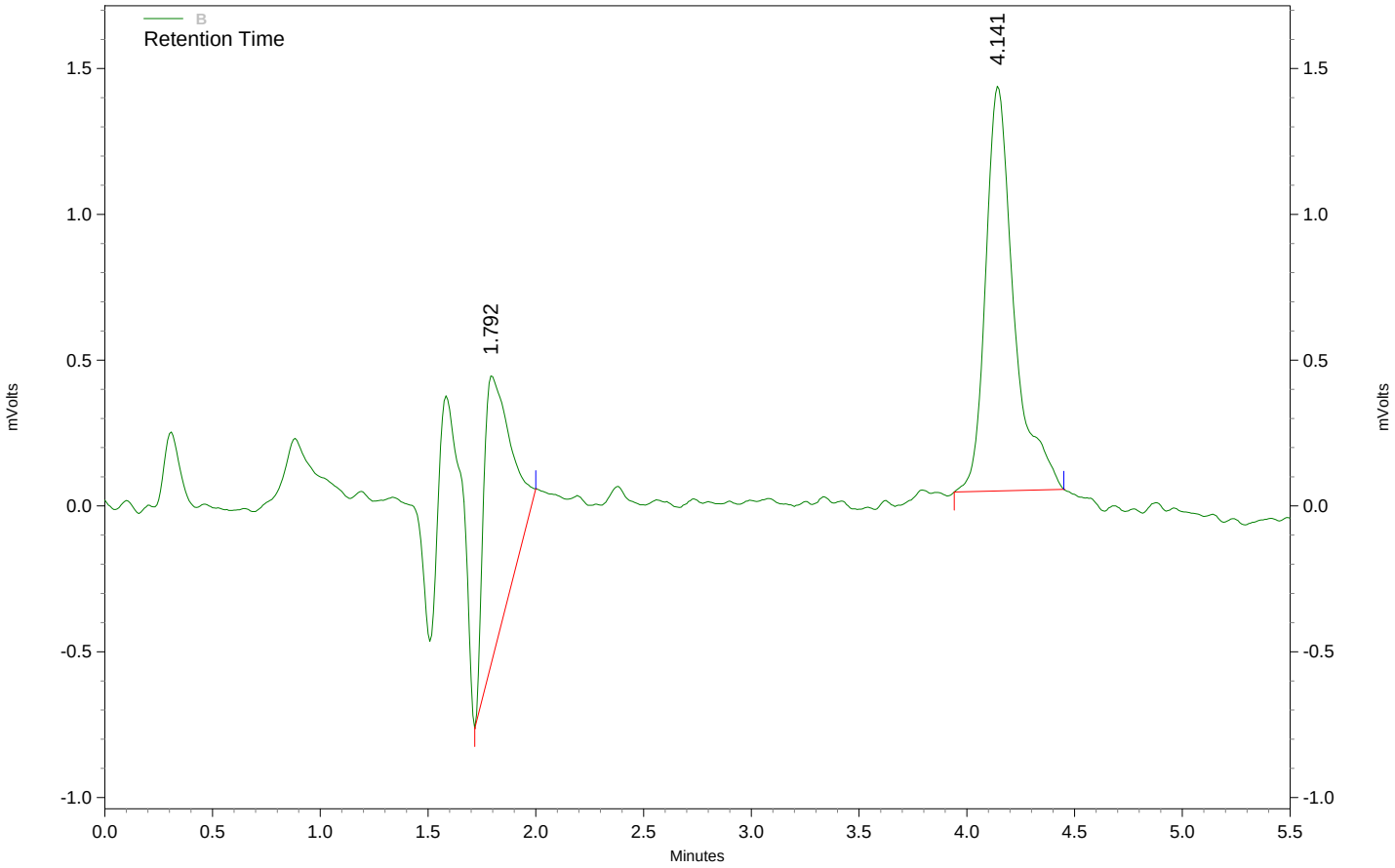
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NG			**0.000 BDL**
26-DNT			**0.000 BDL**
24-DNT	9.799	2023	**0.003**
PETN			**0.000 BDL**

RED
12/30/2010

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\NQ\121610NQ-primary\003.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121610NQ-primary.met
Sample ID: 72412,875959,,mbs
Acquired: Dec 16, 2010 08:51:41
Data Summary: {Data Description}



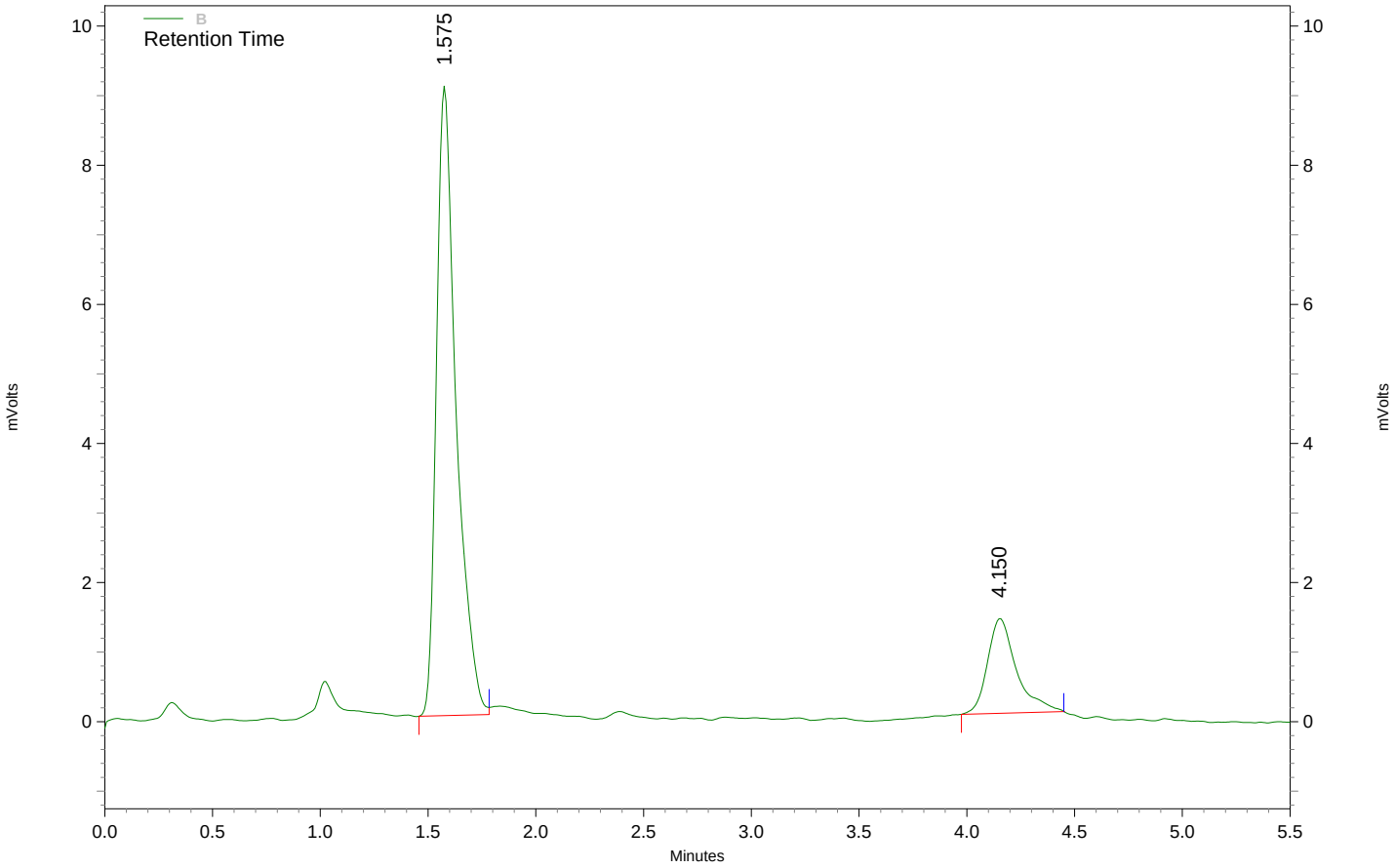
B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ			**0.000 BDL**
12-DNB (SSTD)	4.141	12645	**93.953**

RED
12/30/2010

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\NQ\121610NQ-primary\004.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121610NQ-primary.met
Sample ID: 72412,875960,,lcss
Acquired: Dec 16, 2010 09:33:53
Data Summary: {Data Description}



B Results

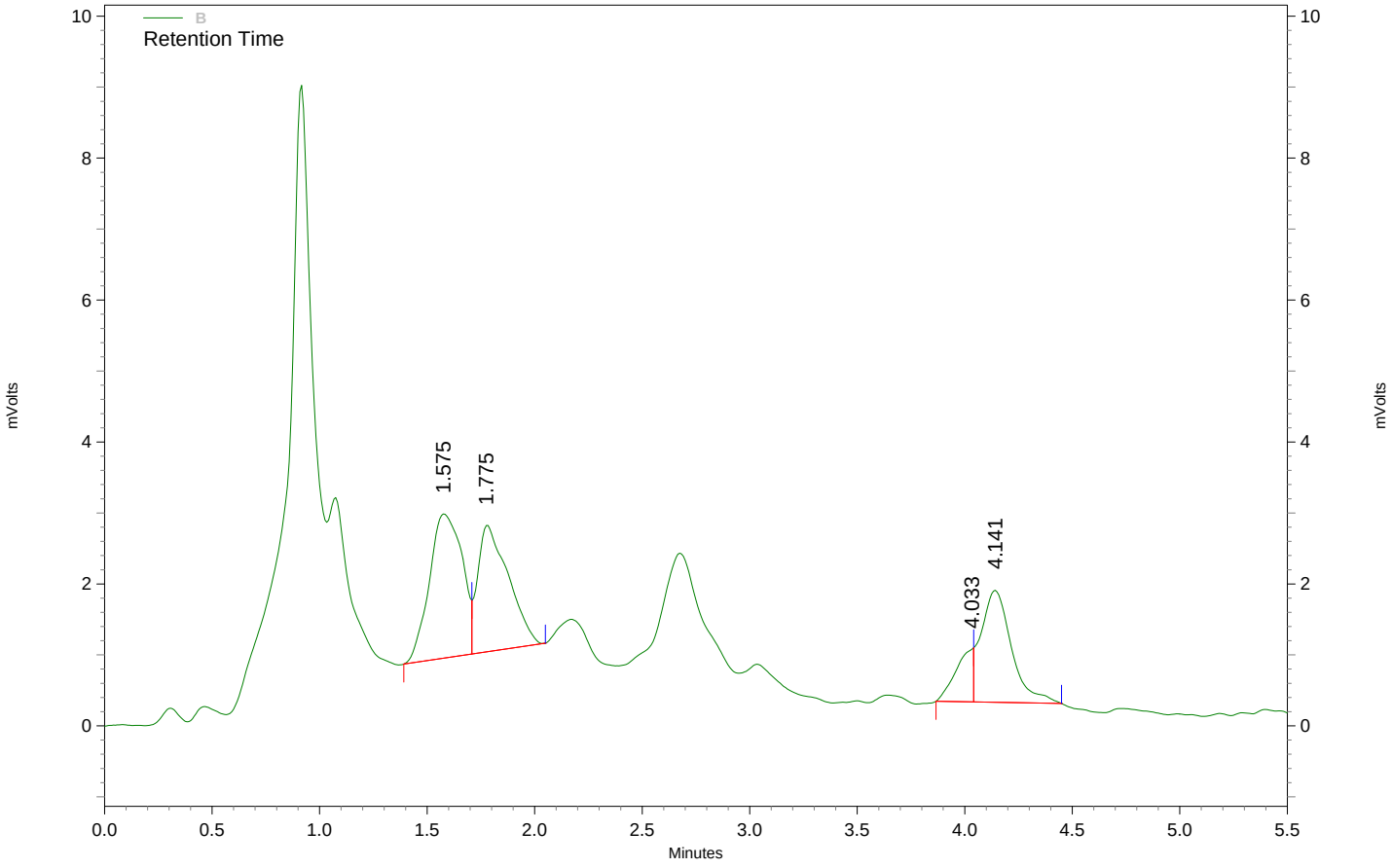
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.575	57894	**0.480**
12-DNB (SSTD)	4.150	12713	**94.457**

After Manual Integration

JJY 12/30/2010 RED 12/30/2010

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\NQ\121610NQ-primary\005.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121610NQ-primary.met
Sample ID: 72412,870201,
Acquired: Dec 16, 2010 09:41:40
Data Summary: Reasons #3 and #4 apply to data. The baseline integration was adjusted to follow the chromatogram baseline and a split was added to remove an interfering shoulder from the surrogate peak. RED 12/16/2010



B Results

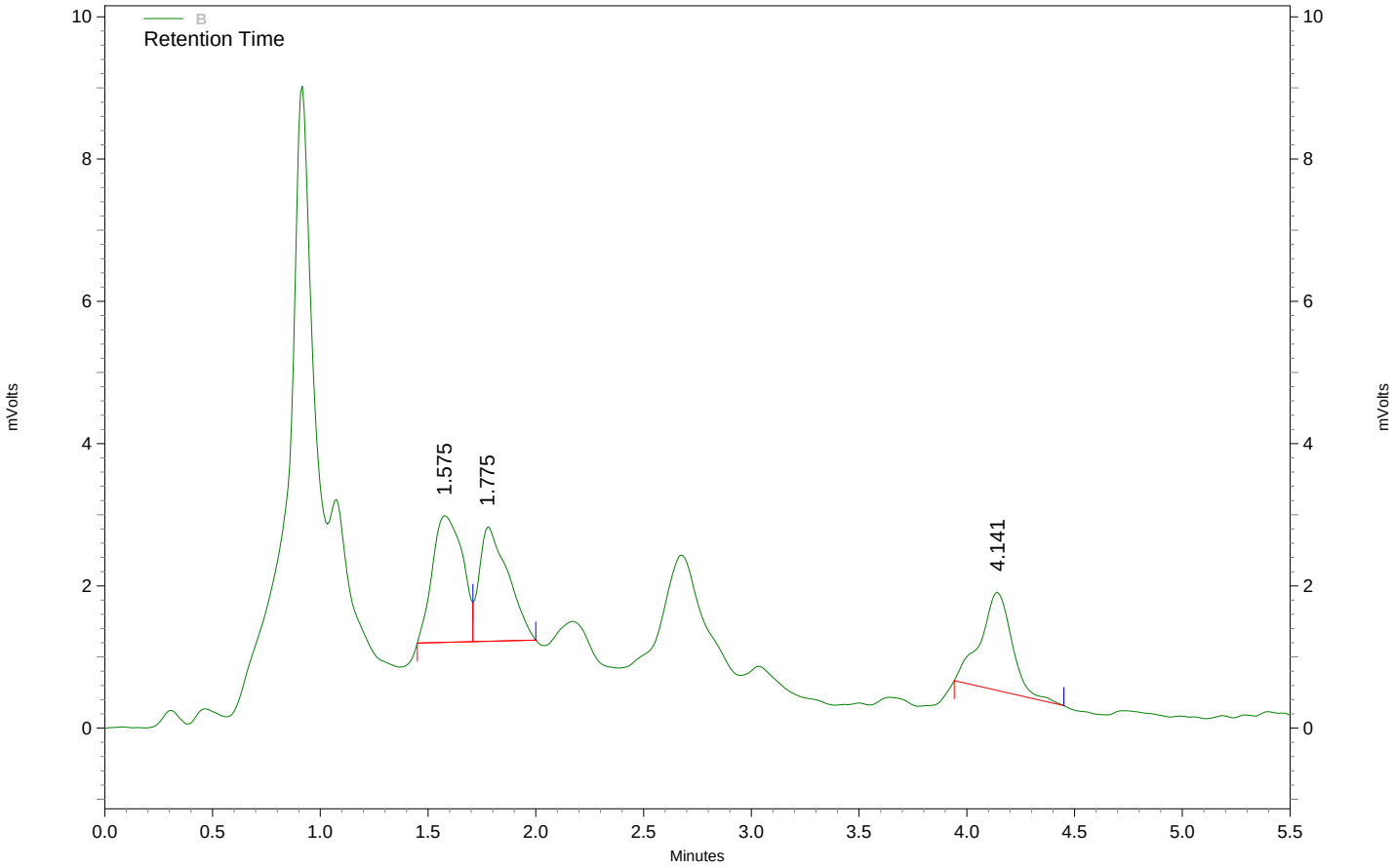
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.575	21589	**0.172**
12-DNB (SSTD)	4.141	15470	**114.893**

Before Manual Integration

RED 12/30/2010 JJY 12/30/2010

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\NQ\101610NQ-primary\005.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121610NQ-primary.met
Sample ID: 72412,870201,
Acquired: Dec 16, 2010 09:41:40
Data Summary: {Data Description}



B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.575	17369	**0.136**
12-DNB (SSTD)	4.141	14070	**104.516**

After Manual Integration

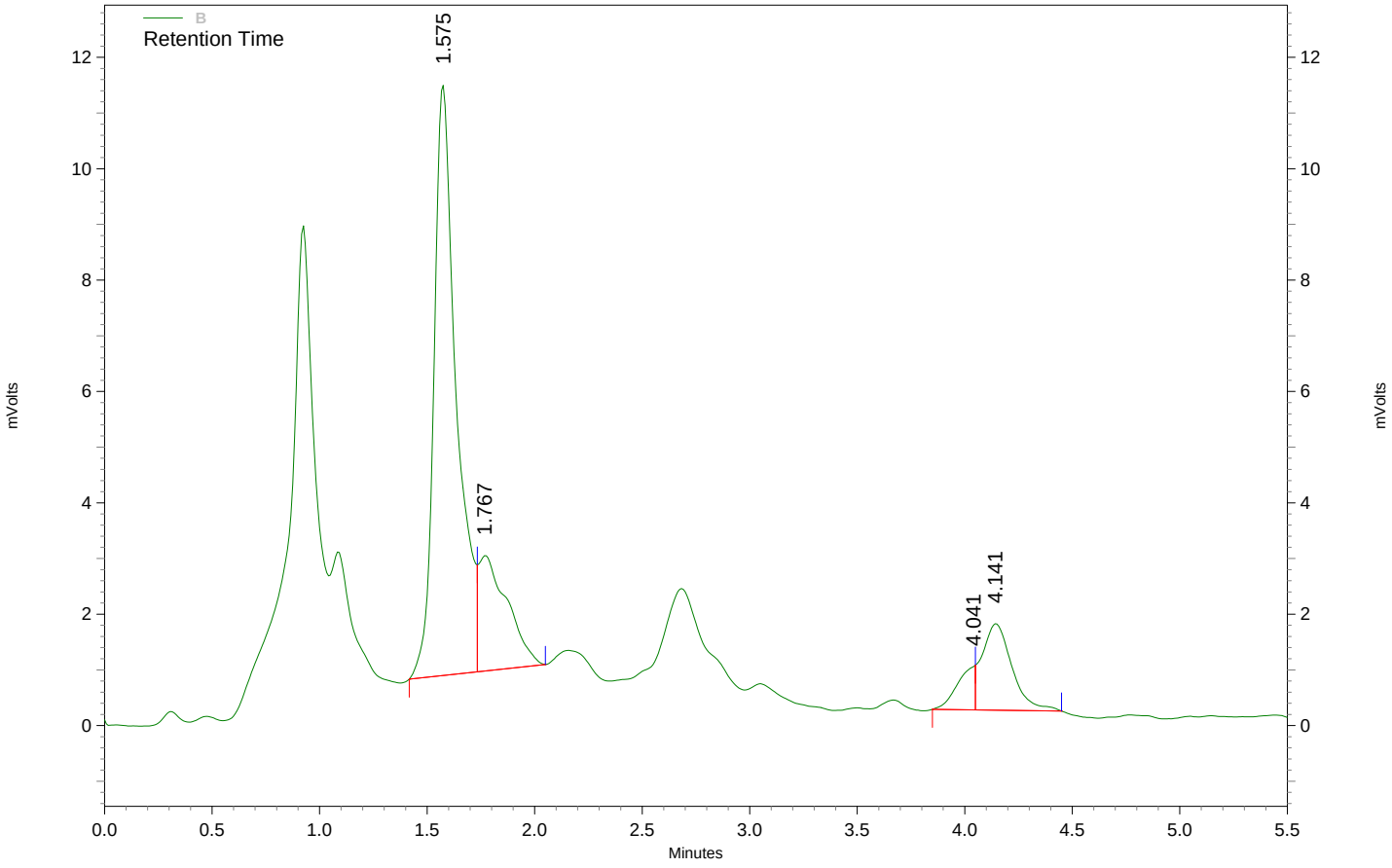
JJY
12/30/2010

RED
12/30/2010

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\NQ\121610NQ-primary\006.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121610NQ-primary.met
Sample ID: 72412,875962,,mss
Acquired: Dec 16, 2010 09:49:28

Data Summary: Reasons #3 and #4 apply to data. The baseline integration was adjusted to follow the chromatogram baseline and a split was added to remove an interfering shoulder from the surrogate peak. RED 12/16/2010



B Results

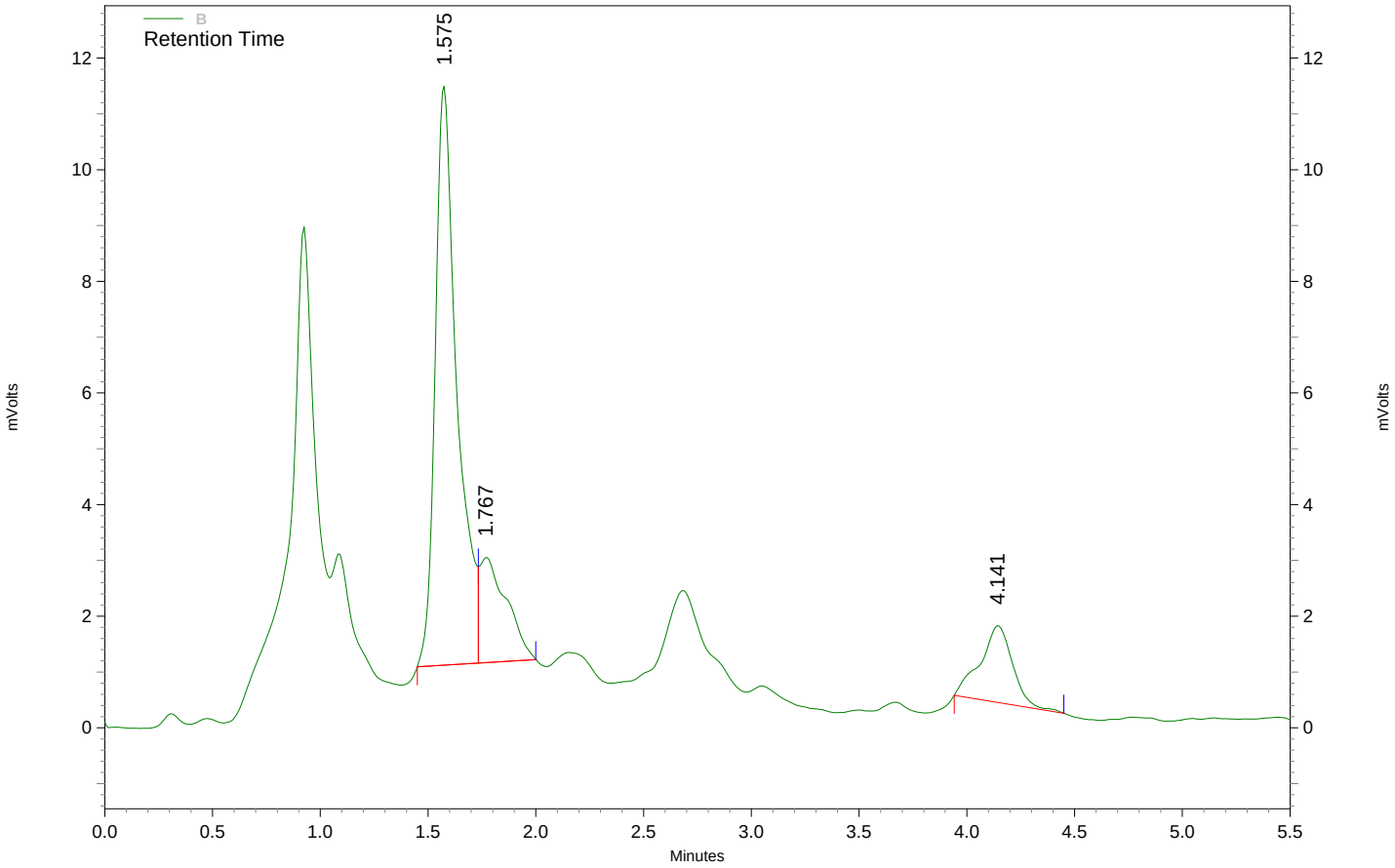
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.575	77232	**0.644**
12-DNB (SSTD)	4.141	14957	**111.091**

Before Manual Integration

JJY
12/30/2010
RED
12/30/2010

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\NQ\101610NQ-primary\006.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121610NQ-primary.met
Sample ID: 72412,875962,,mss
Acquired: Dec 16, 2010 09:49:28
Data Summary: {Data Description}



B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.575	73312	**0.610**
12-DNB (SSTD)	4.141	14371	**106.747**

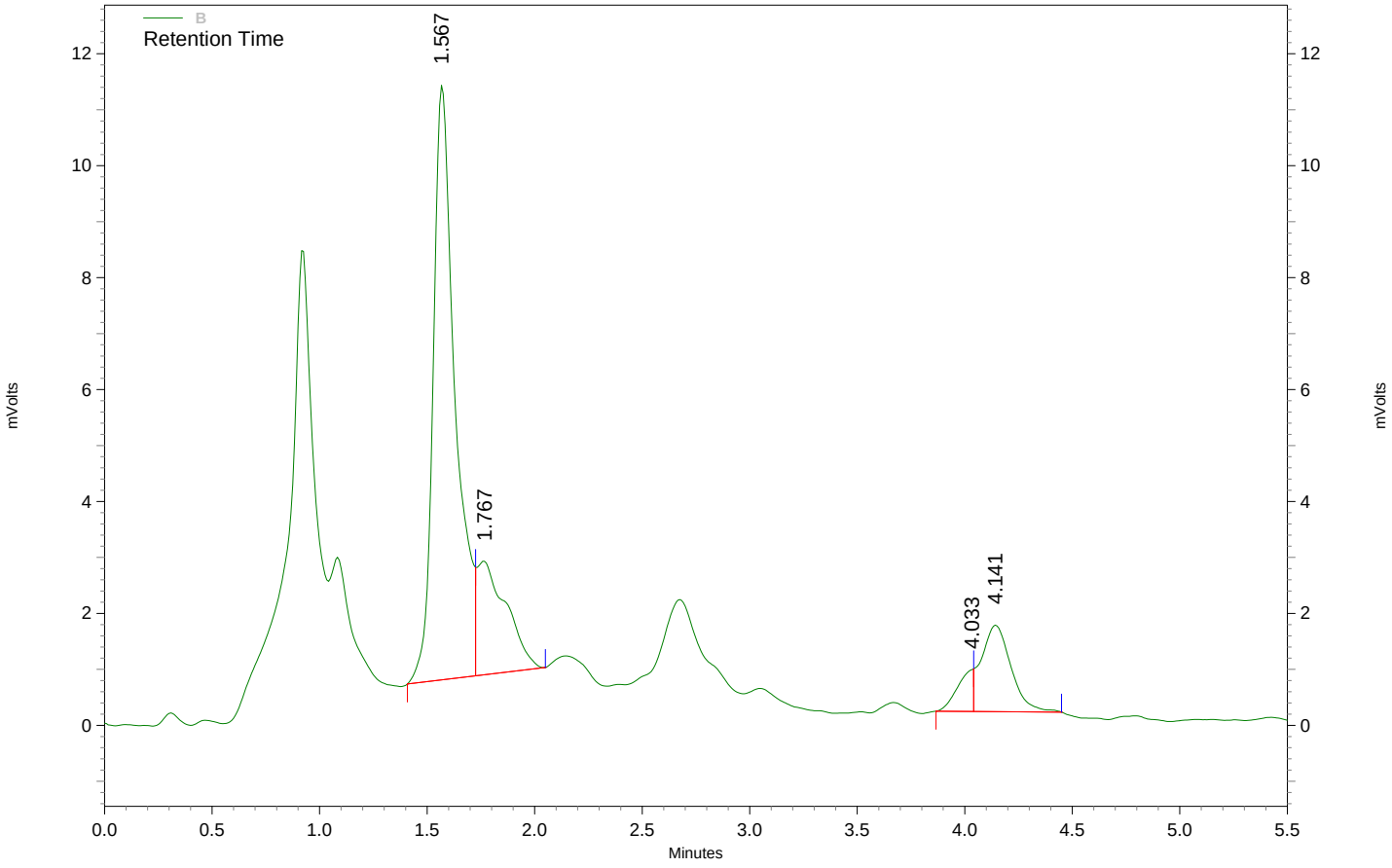
After Manual Integration

JJY
12/30/2010
RED
12/30/2010

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\NQ\121610NQ-primary\007.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121610NQ-primary.met
Sample ID: 72412,875963,,msds
Acquired: Dec 16, 2010 09:57:15

Data Summary: Reasons #3 and #4 apply to data. The baseline integration was adjusted to follow the chromatogram baseline and a split was added to remove an interfering shoulder from the surrogate peak. RED 12/16/2010



B Results

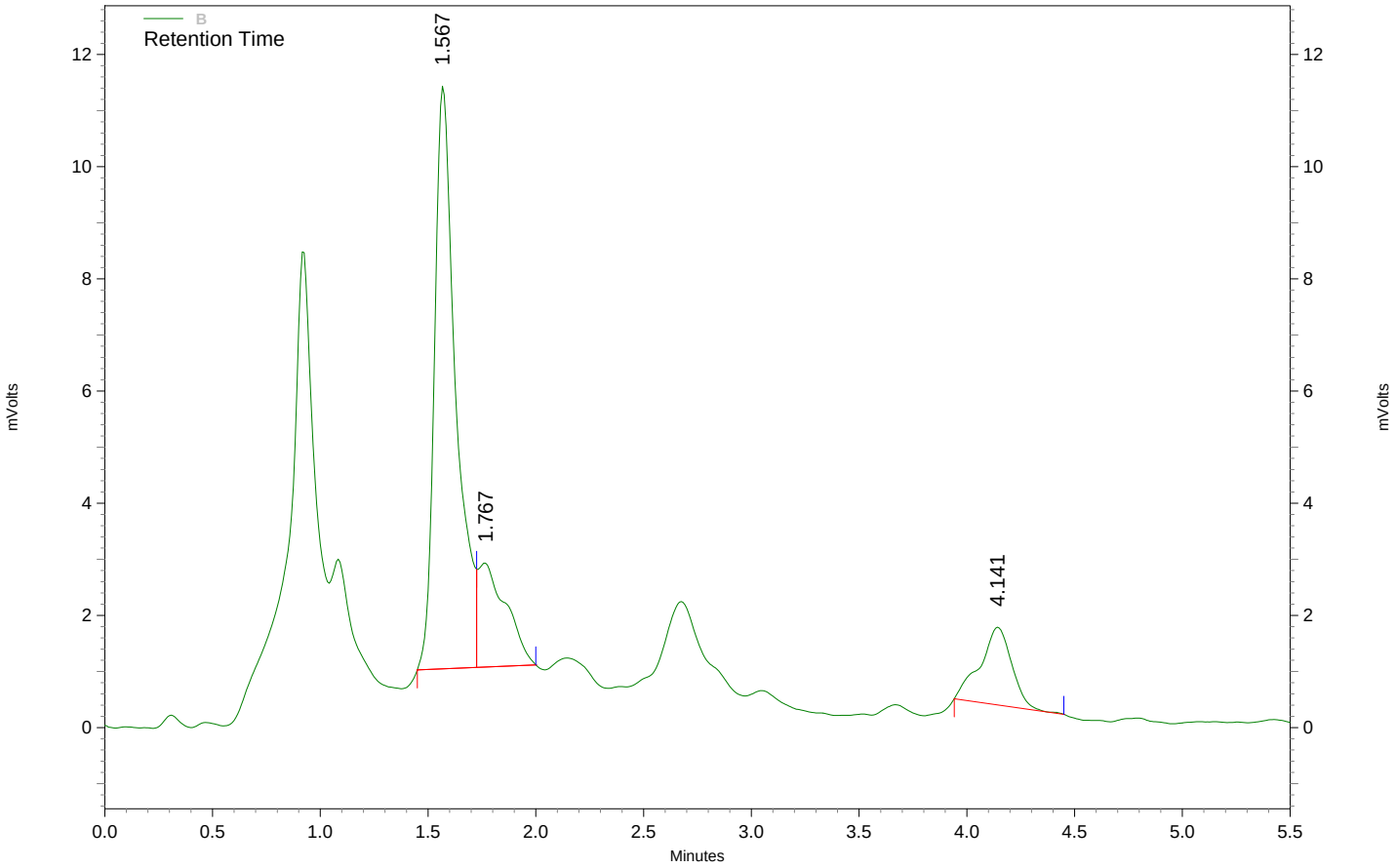
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.567	75961	**0.633**
12-DNB (SSTD)	4.141	14800	**109.927**

Before Manual Integration

JJY
12/30/2010
RED
12/30/2010

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\NQ\101610NQ-primary\007.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121610NQ-primary.met
Sample ID: 72412,875963,,msds
Acquired: Dec 16, 2010 09:57:15
Data Summary: {Data Description}



B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.567	71904	**0.599**
12-DNB (SSTD)	4.141	14170	**105.257**

RED

12/30/2010

Triplicate Sample Analysis Relative Standard Deviation Calculations

Analyst: Becky Duranceau
Sample ID: 870201
Analysis Date: 12/16/2010
Data path: C:\Instarch\Data\HPLC 2\Nitroguanidine_NQ\121610NQic-confirm

	Analyte Concentration (ug/mL)						
Analyte	**Parent Sample**	**Duplicate Sample**	**Triplicate Sample**	**Mean Conc. (ug/mL)**	**Standard Deviation**	**%RSD**	**Flag (>20% RSD)**
Nitroguanidine (NQ)	0.077	0.08	0.075	0.07733333	0.0025166	3.254239	
1.2-Dinitrobenzene (SSTD)	96.899	97.808	98.632	97.7796667	0.8668474	0.886531	

JJY
12/30/2010

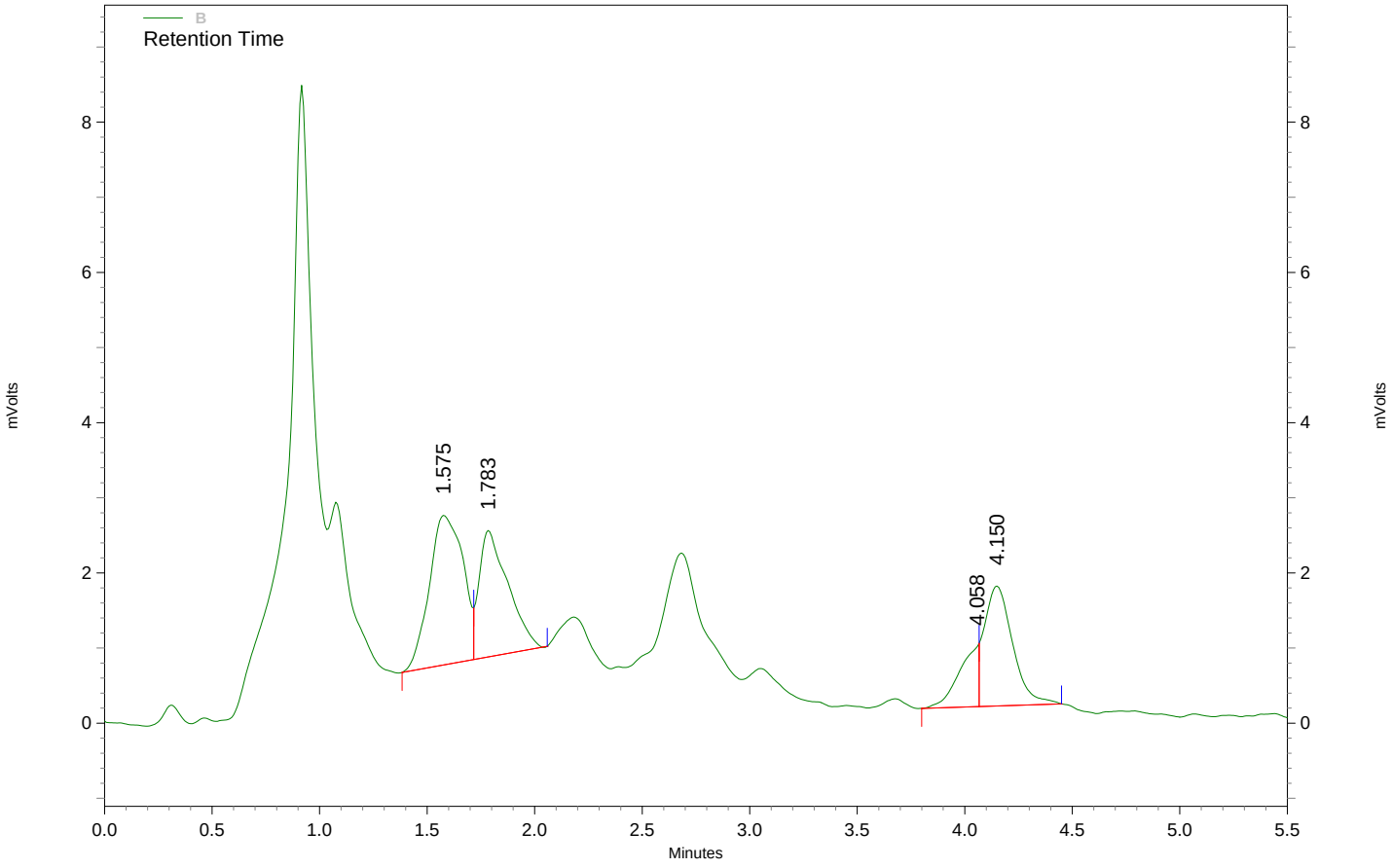
After Manual Integration

RED
12/30/2010

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\NQ\121610NQ-primary\008.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121610NQ-primary.met
Sample ID: 870201 dup.
Acquired: Dec 16, 2010 10:05:02

Data Summary: Reasons #3 and #4 apply to data. The baseline integration was adjusted to follow the chromatogram baseline and a split was added to remove an interfering shoulder from the surrogate peak. RED 12/16/2010



B Results

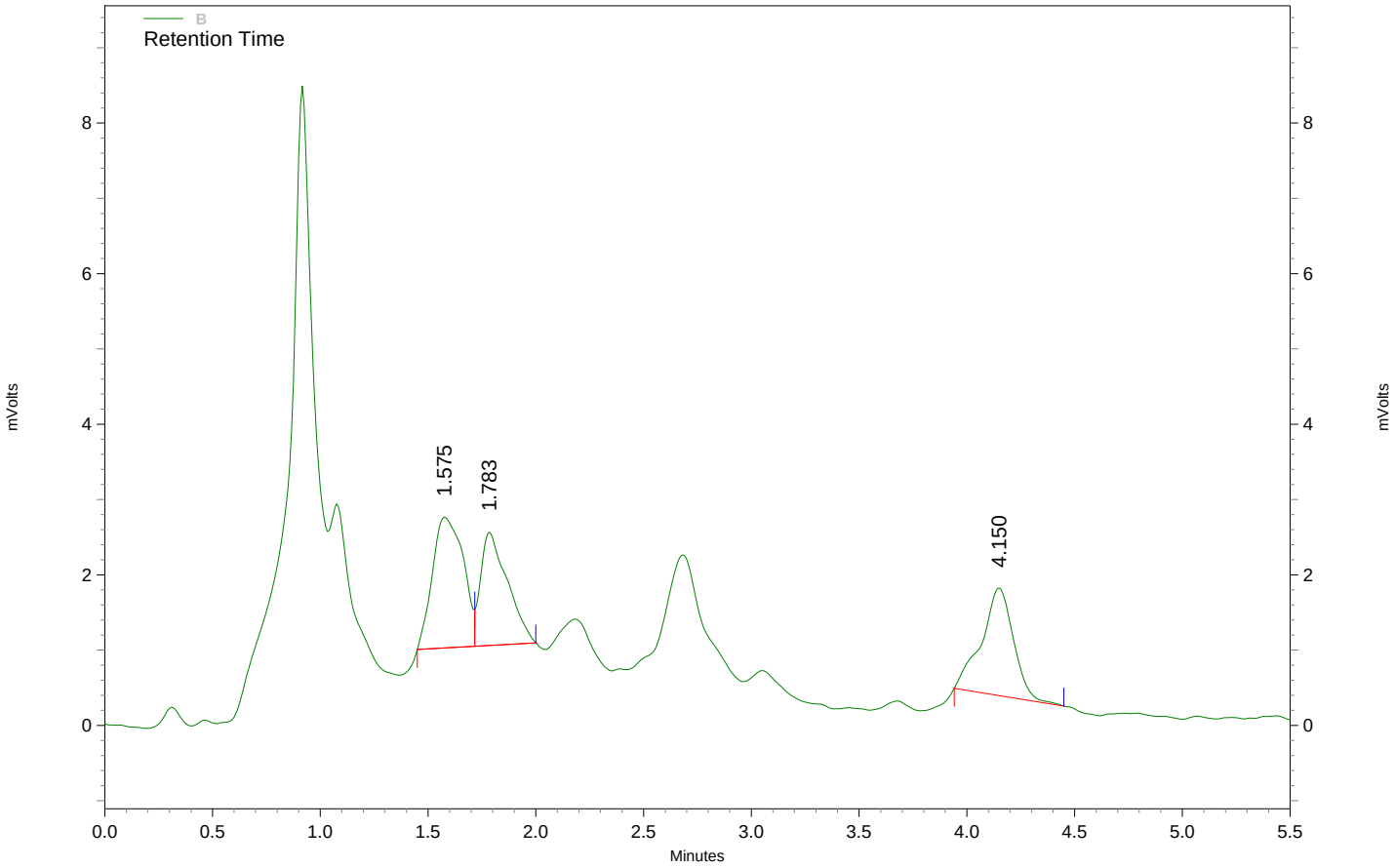
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.575	21681	**0.173**
12-DNB (SSTD)	4.150	14571	**108.229**

Before Manual Integration

JJY
12/30/2010
RED
12/30/2010

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\NQ\101610NQ-primary\008.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121610NQ-primary.met
Sample ID: 870201 dup.
Acquired: Dec 16, 2010 10:05:02
Data Summary: {Data Description}



B Results

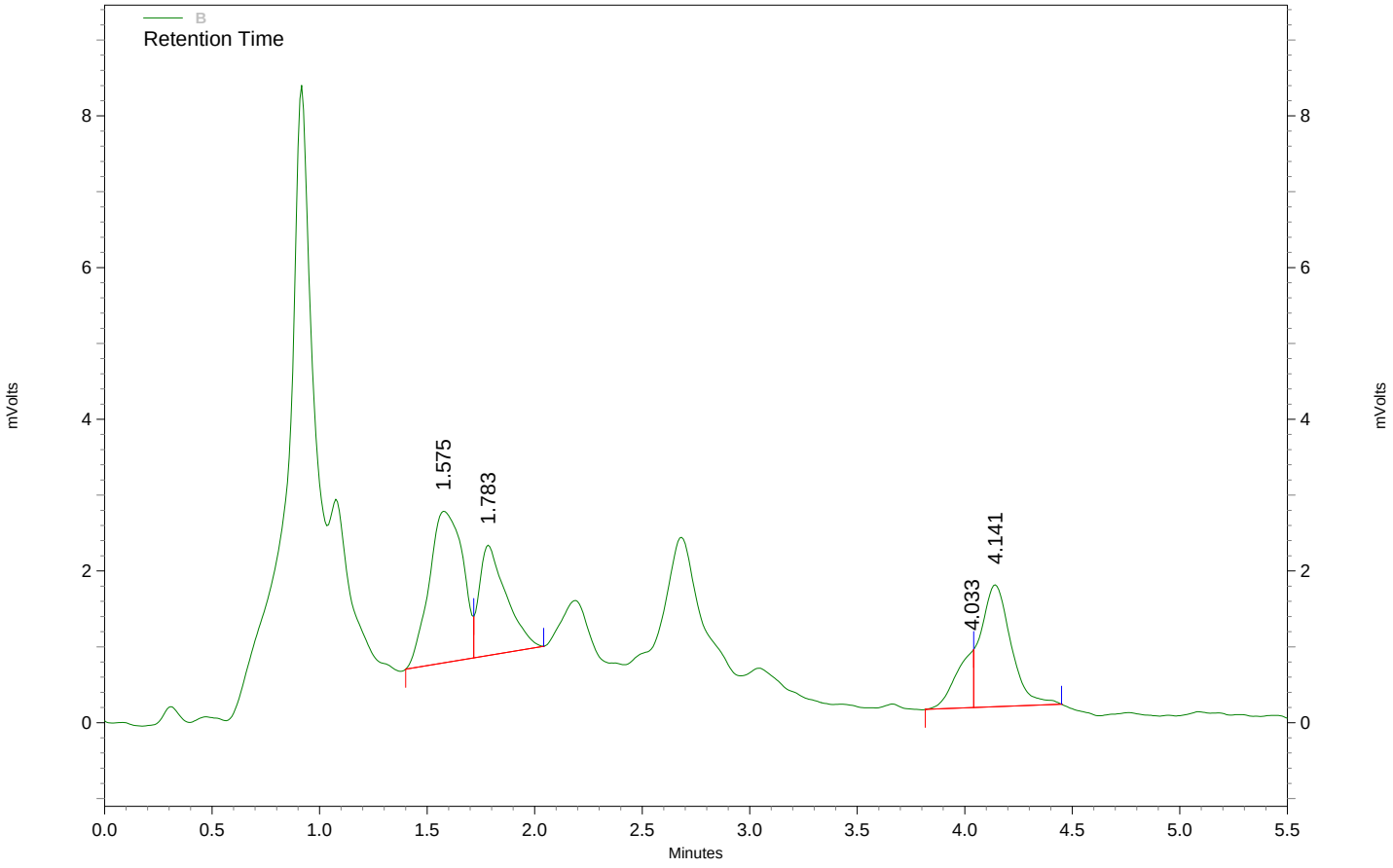
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.575	17281	**0.135**
12-DNB (SSTD)	4.150	14706	**109.230**

After Manual Integration

JJY
12/30/2010
RED
12/30/2010

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\NQ\121610NQ-primary\009.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121610NQ-primary.met
Sample ID: 870201 trip.
Acquired: Dec 16, 2010 10:12:48
Data Summary: Reasons #3 and #4 apply to data. The baseline integration was adjusted to follow the chromatogram baseline and a split was added to remove an interfering shoulder from the surrogate peak. RED 12/16/2010



B Results

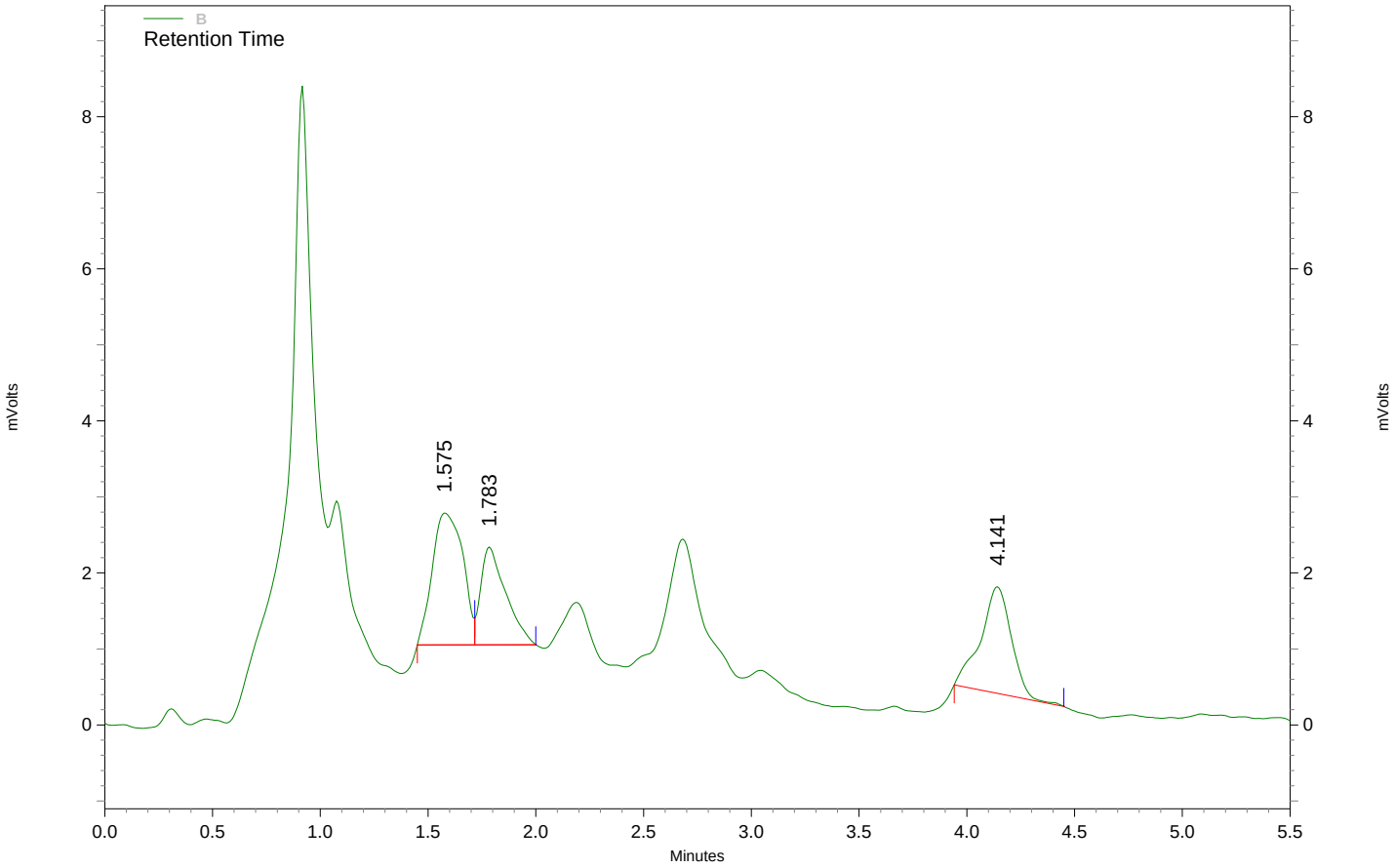
Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.575	21670	**0.172**
12-DNB (SSTD)	4.141	15578	**115.694**

Before Manual Integration

JJY
12/30/2010
RED
12/30/2010

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\NQ\101610NQ-primary\009.dat
User ID: red
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121510NQic-primary\121610NQ-primary.met
Sample ID: 870201 trip.
Acquired: Dec 16, 2010 10:12:48
Data Summary: {Data Description}

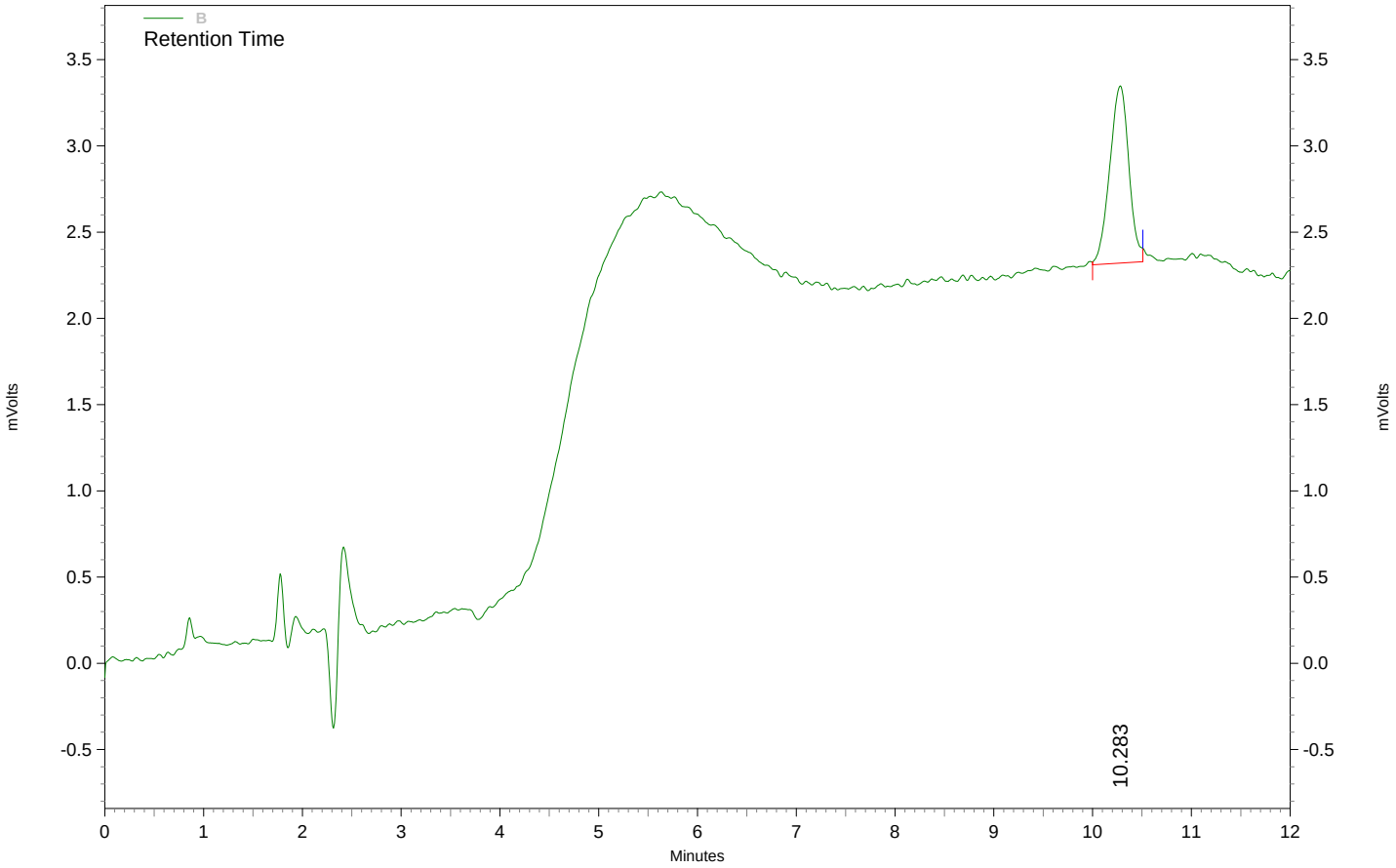


B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.575	17108	**0.134**
12-DNB (SSTD)	4.141	13921	**103.411**

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\011.dat
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
User ID: red
Sample ID: 72412,875959,,mbs
Acquired: Dec 16, 2010 21:52:19
Data summary: {Data Description}

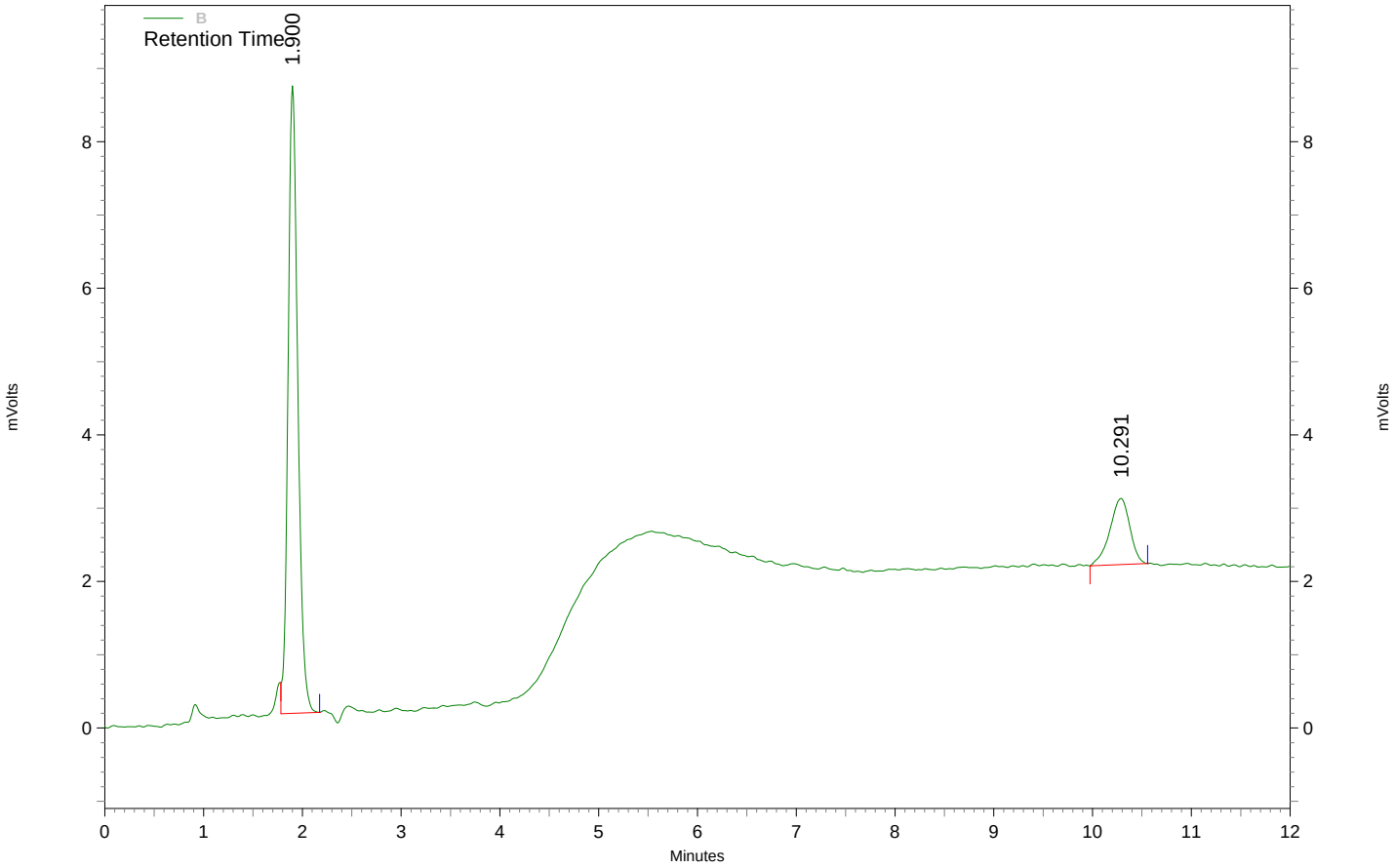


B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ			**0.000 BDL**
12-DNB (SSTD)	10.283	13850	**98.346**

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\012.dat
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
User ID: red
Sample ID: 72412,875960,,lcss
Acquired: Dec 16, 2010 22:06:37
Data summary: {Data Description}

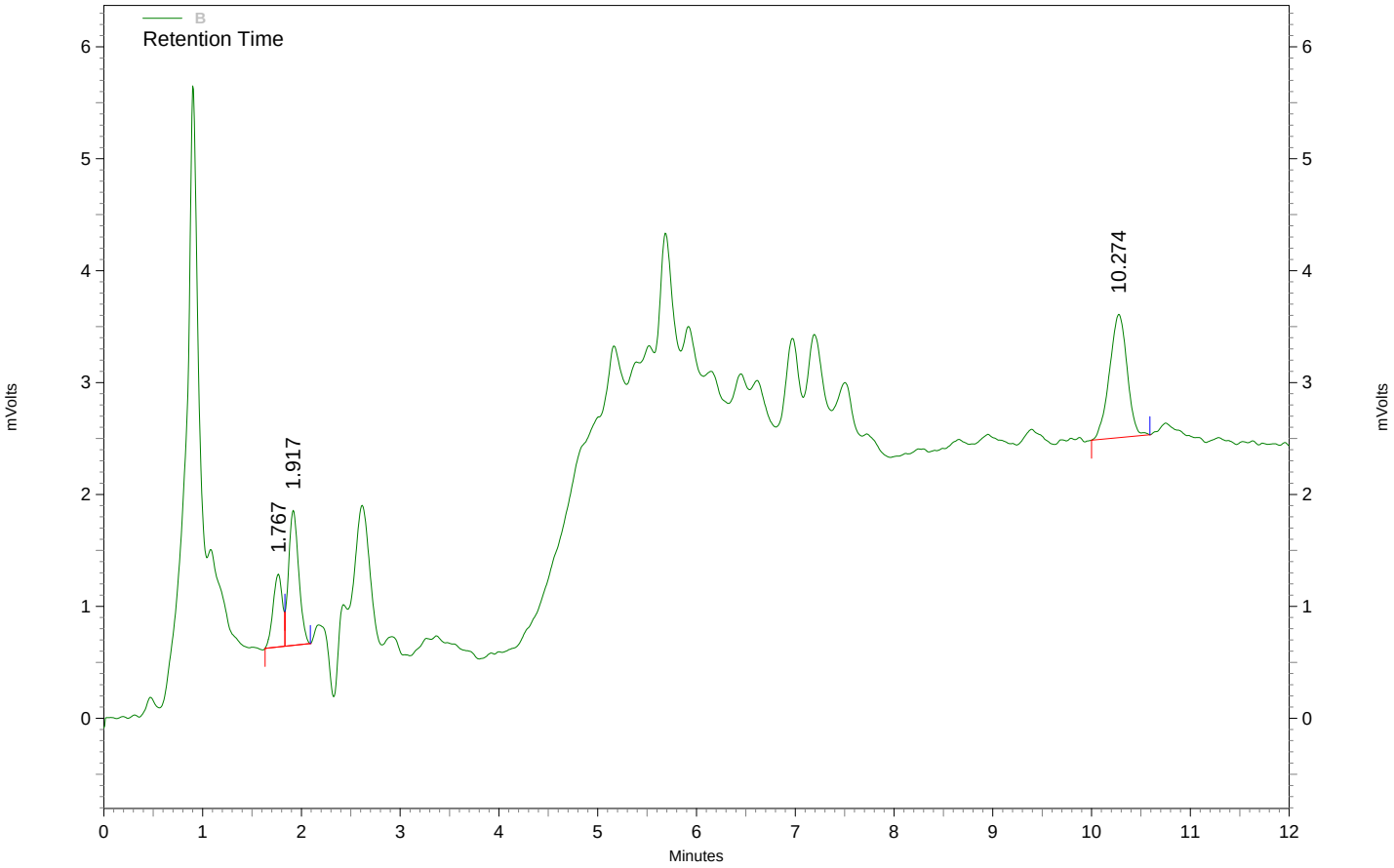


B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.900	58850	**0.501**
12-DNB (SSTD)	10.291	12743	**90.414**

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\013.dat
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
User ID: red
Sample ID: 72412,870201,
Acquired: Dec 16, 2010 22:20:54
Data summary: {Data Description}

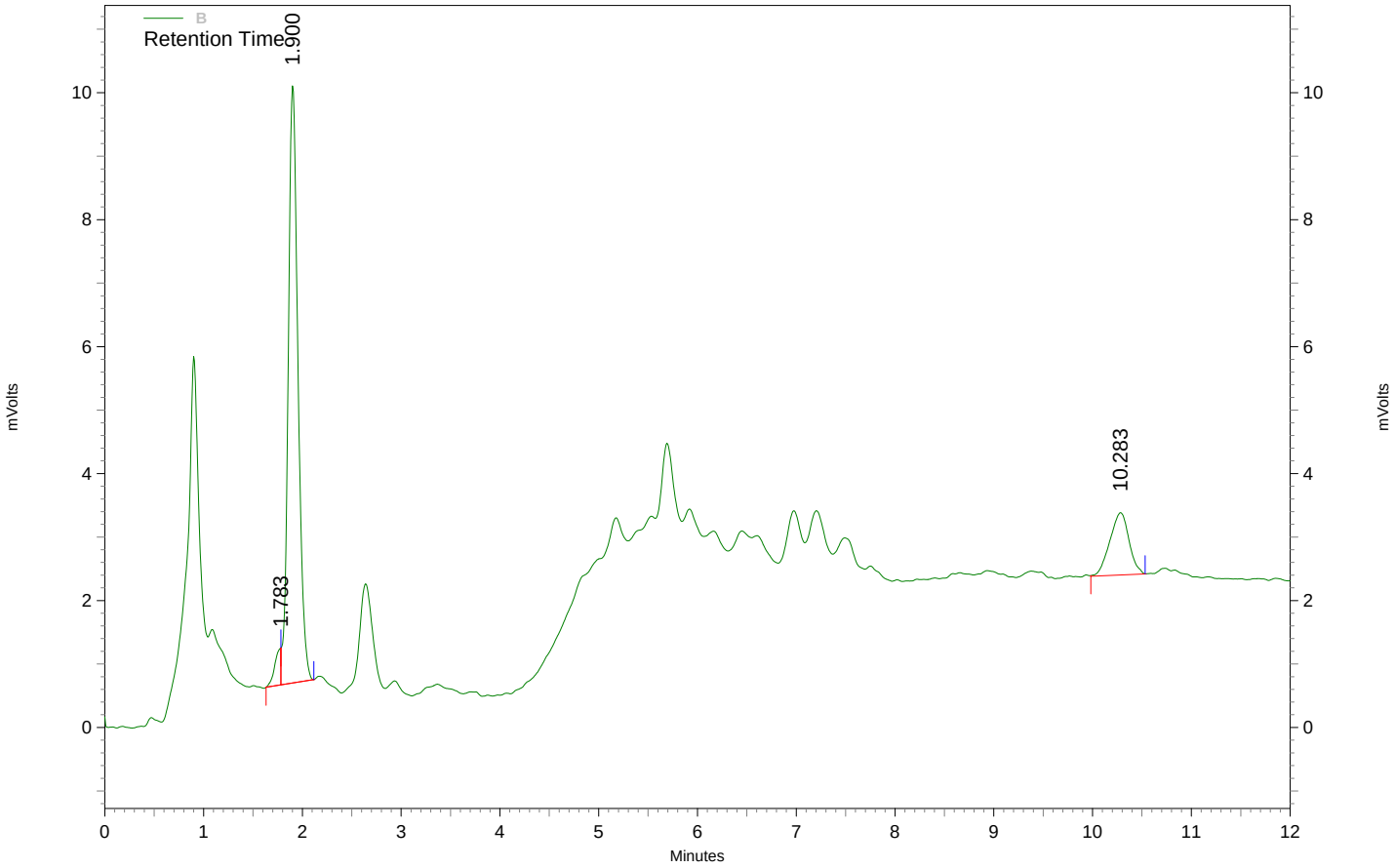


B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.917	8636	**0.077**
12-DNB (SSTD)	10.274	13648	**96.899**

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\014.dat
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
User ID: red
Sample ID: 72412,875962,,mss
Acquired: Dec 16, 2010 22:35:12
Data summary: {Data Description}

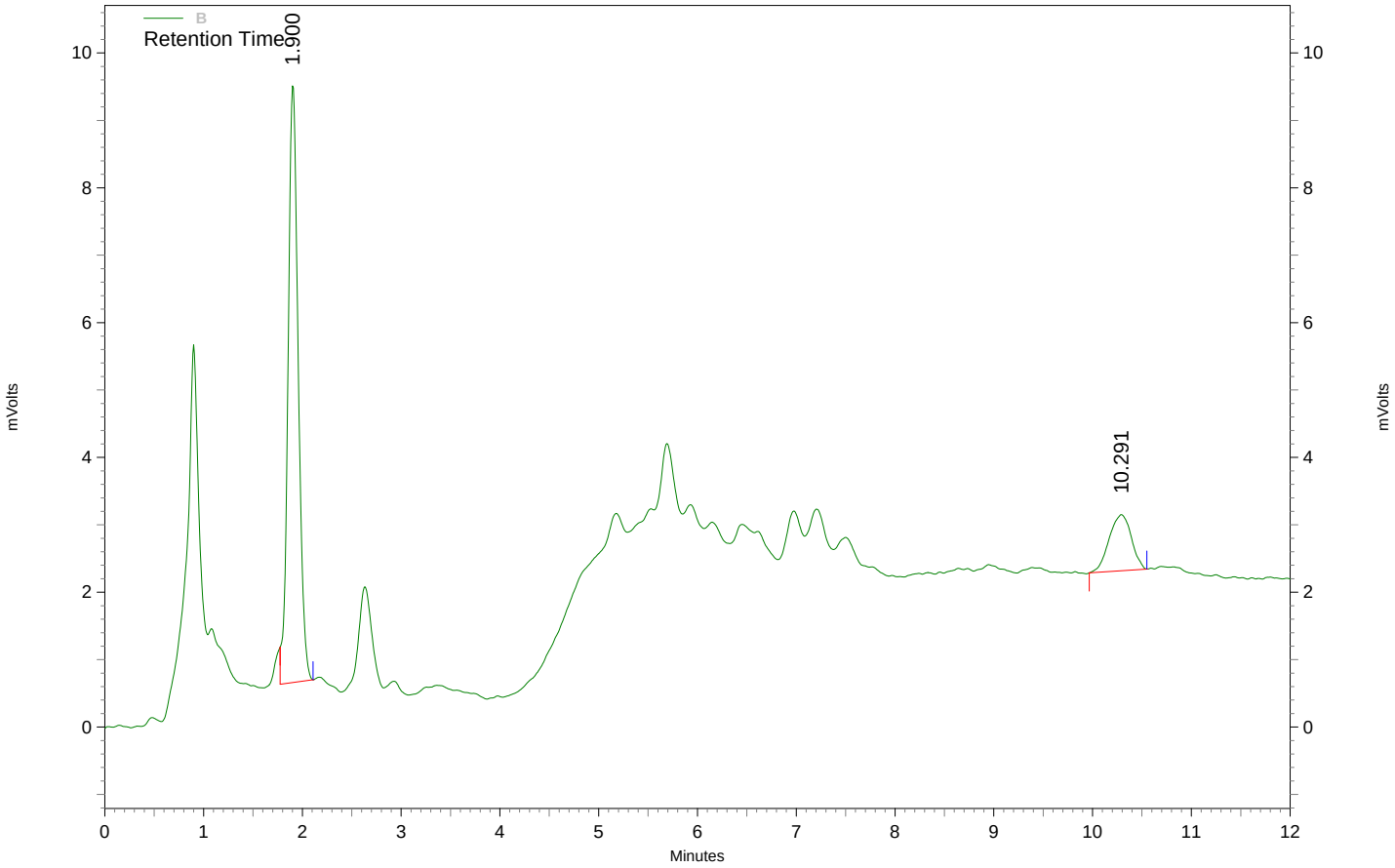


B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.900	64842	**0.551**
12-DNB (SSTD)	10.283	13209	**93.753**

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\015.dat
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
User ID: red
Sample ID: 72412,875963,,msds
Acquired: Dec 16, 2010 22:49:29
Data summary: {Data Description}

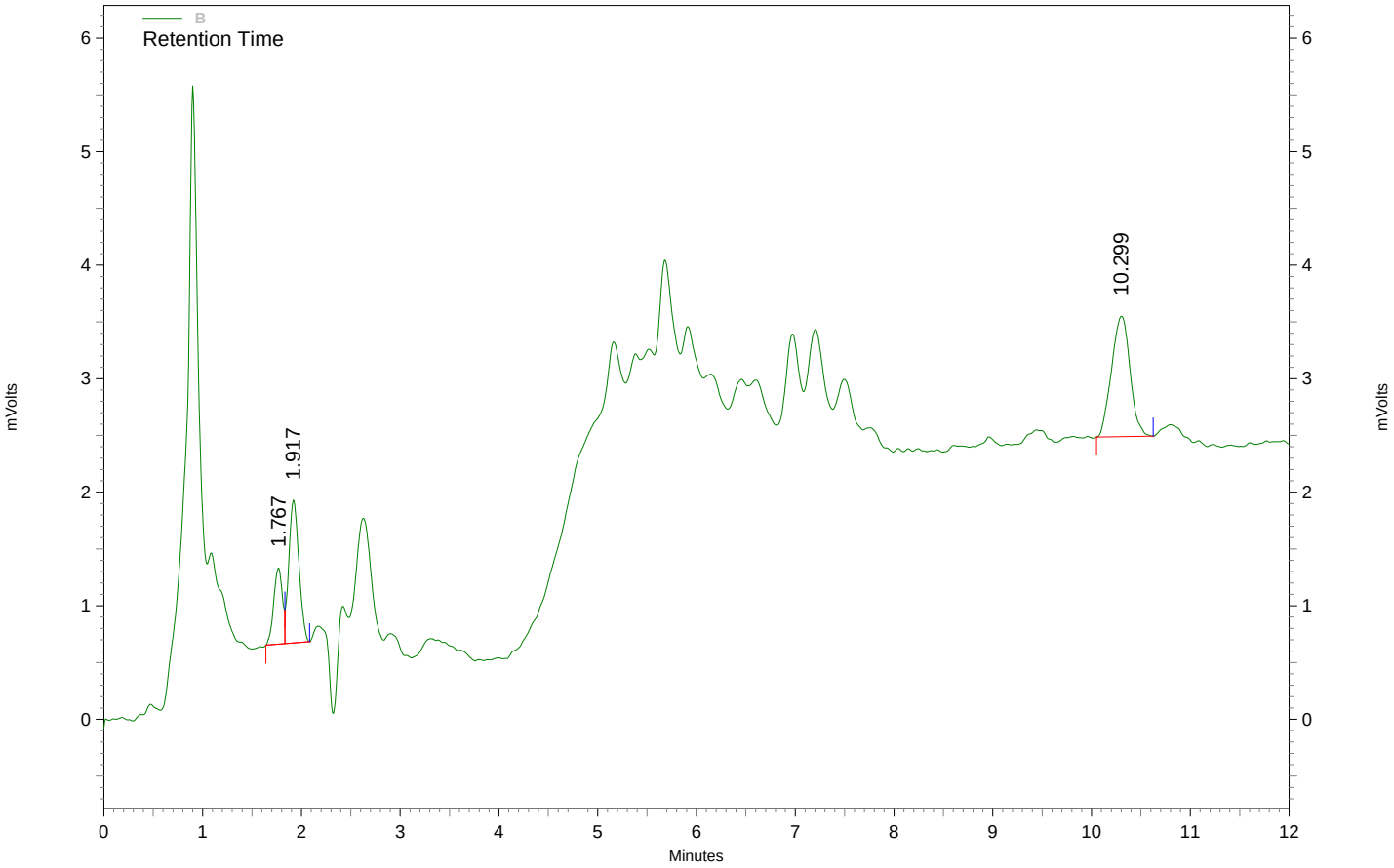


B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.900	63550	**0.540**
12-DNB (SSTD)	10.291	12989	**92.177**

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\016.dat
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
User ID: red
Sample ID: 870201 dup.
Acquired: Dec 16, 2010 23:03:45
Data summary: {Data Description}

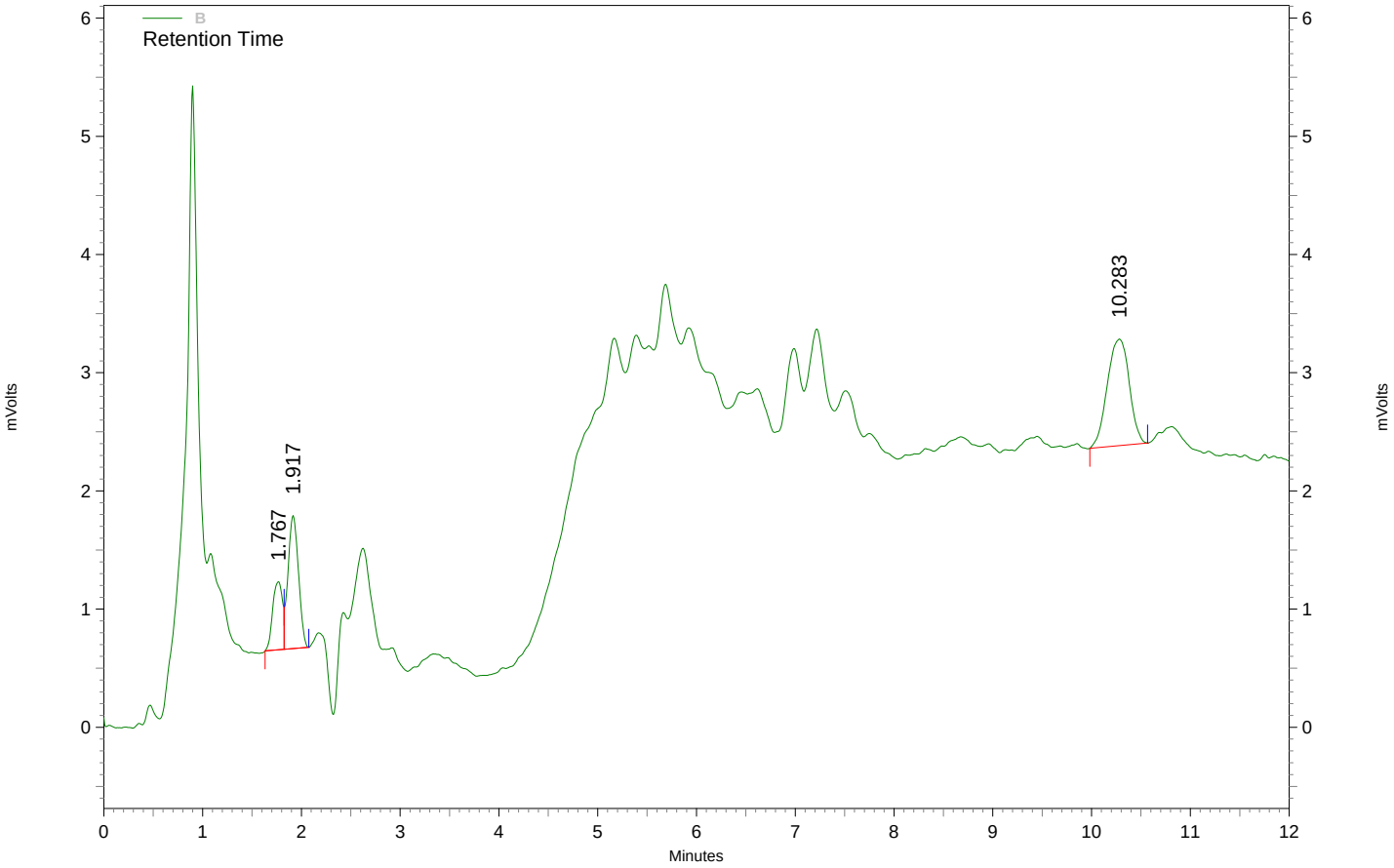


B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.917	8955	**0.080**
12-DNB (SSTD)	10.299	13775	**97.808**

Explosives - 8330

File: C:\Instarch\Data\HPLC 2\NQ\121610NQic-confirm\017.dat
Method: C:\Instarch\Methods\HPLC2\Nitroguanidine_NQ\121610NQic-confirm\121610NQic-confirm.met
User ID: red
Sample ID: 870201 trip.
Acquired: Dec 16, 2010 23:18:03
Data summary: {Data Description}



B Results

Name	*Retention Time*	*Area*	*concentration (ug/ml)*
NQ	1.917	8345	**0.075**
12-DNB (SSTD)	10.283	13890	**98.632**

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2MBS01.D Vial: 2
Acq On : 2 Dec 2010 19:05 Operator: RPN
Sample : 72179,MBS,1 Inst : SVMS2
Misc : 874148,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 03 13:30:33 2010

RPN 12/02/10

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Fri Dec 03 13:29:16 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

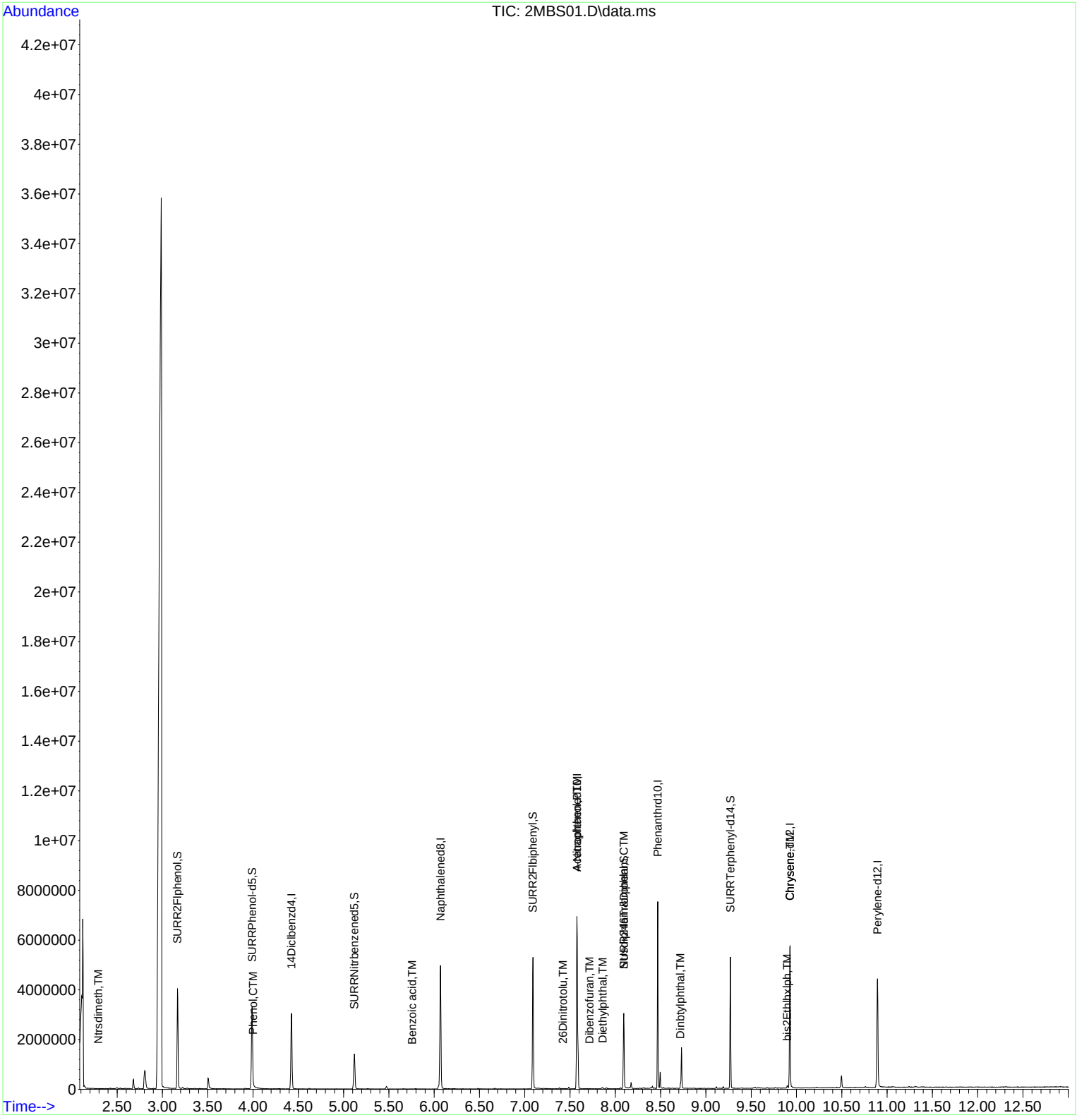
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.425	152	502657	20.00	ug/mL	0.00
21) Naphthalened8	6.070	136	2283741	20.00	ug/mL	0.00
39) Acenaphthened10	7.576	164	1179017	20.00	ug/mL	0.00
63) Phenanthrd10	8.468	188	1744631	20.00	ug/mL	0.00
75) Chrysene-d12	9.929	240	1599104	20.00	ug/mL	0.00
85) Perylene-d12	10.895	264	1489619	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	3.166	112	969622	77.49	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery = 77.49%			
7) SURRPhenol-d5	3.990	99	1267936	84.35	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 84.35%			
22) SURRNitrbenzened5	5.118	82	449232	81.51	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 81.51%			
44) SURR2Flbiphenyl	7.090	172	1345343	87.21	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 87.21%			
62) SURR246Tribrphenl	8.093	330	271425	76.14	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 76.14%			
78) SURRTerphenyl-d14	9.270	244	1036940	89.27	ug/mL	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 89.27%			
Target Compounds						Qvalue
2) Ntrsdimeth	2.294	74	1261	0.0707	ug/mL#	47
8) Phenol	4.002	94	12793	0.3453	ug/mL	82
30) Benzoic acid	5.758	105	468	2.9413	ug/mL#	66
49) 26Dinitrotolu	7.420	165	1932	0.1116	ug/mL	80
53) Dibenzofuran	7.716	168	3248	0.0340	ug/mL	59
55) 4-Nitrophenol	7.576	109	3366	0.5669	ug/mL	84
60) Diethylphthal	7.860	149	9565	0.1184	ug/mL	97
65) Ntrsdiphlam&Diphlam	8.093	169	9362	0.1807	ug/mL#	48
73) Dinbtylphthal	8.719	149	61912	0.5771	ug/mL	97
76) Benzidine	9.267	184	11728	Below Cal		89
82) Chrysene	9.929	228	3913	0.0459	ug/mL	66
83) bis2Ethlhxlph	9.898	149	21059	0.3125	ug/mL	98

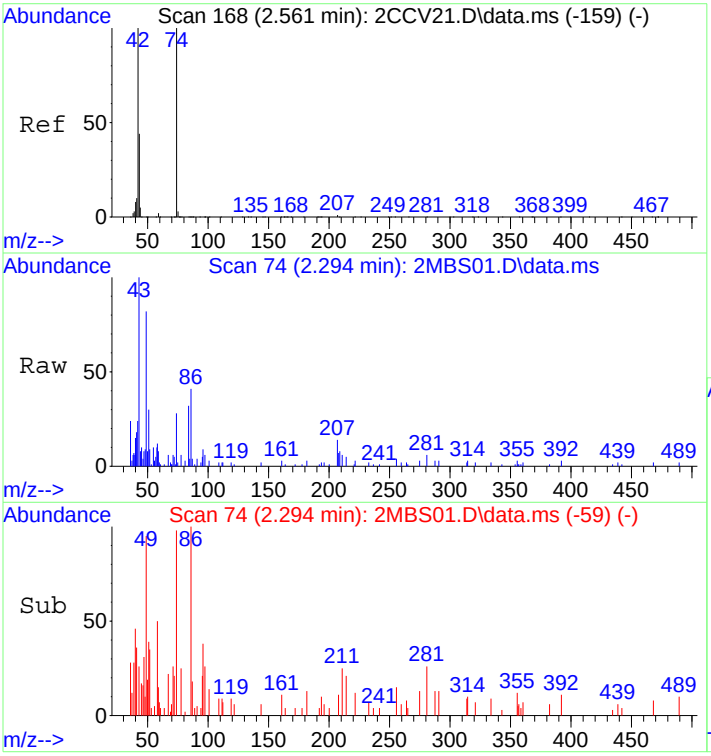
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2MBS01.D Vial: 2
Acq On : 2 Dec 2010 19:05 Operator: RPN
Sample : 72179,MBS,1 Inst : SVMS2
Misc : 874148,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 03 13:30:33 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Fri Dec 03 13:29:16 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

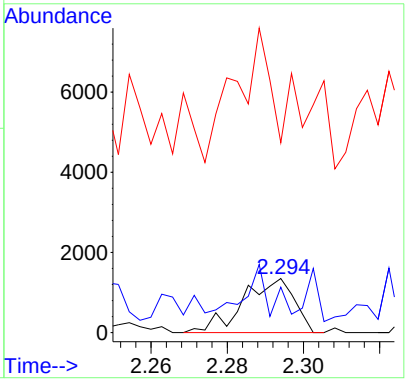


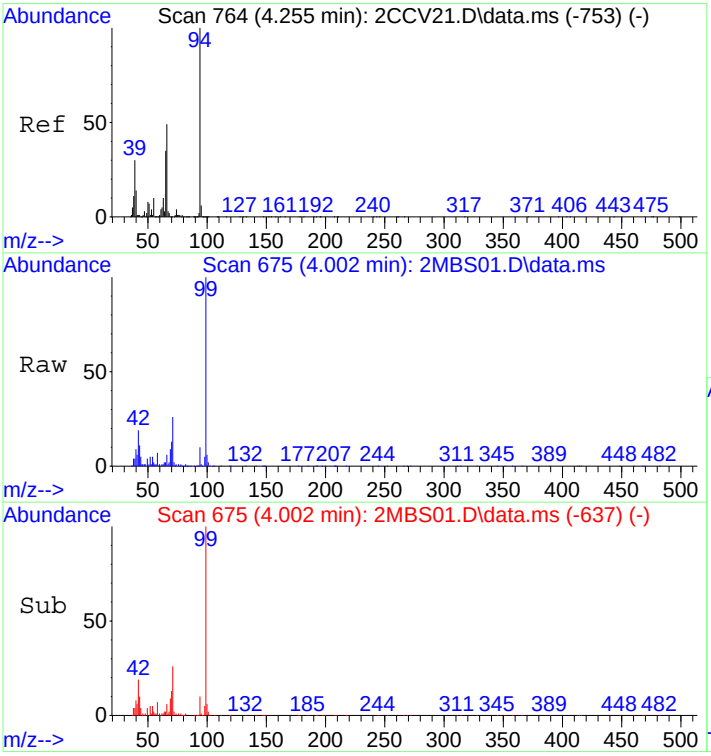


#2
Ntrsdimeth
Concen: 0.07 ug/mL
RT: 2.294 min Scan# 74
Delta R.T. -0.077 min
Lab File: 2MBS01.D
Acq: 2 Dec 10 7:05 pm

Tgt Ion: 74 Resp: 1261

Ion	Ratio	Lower	Upper
74	100		
42	63.8	82.4	142.4#
43	0.0	17.7	77.7#

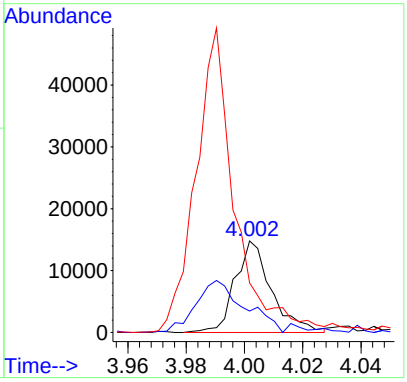


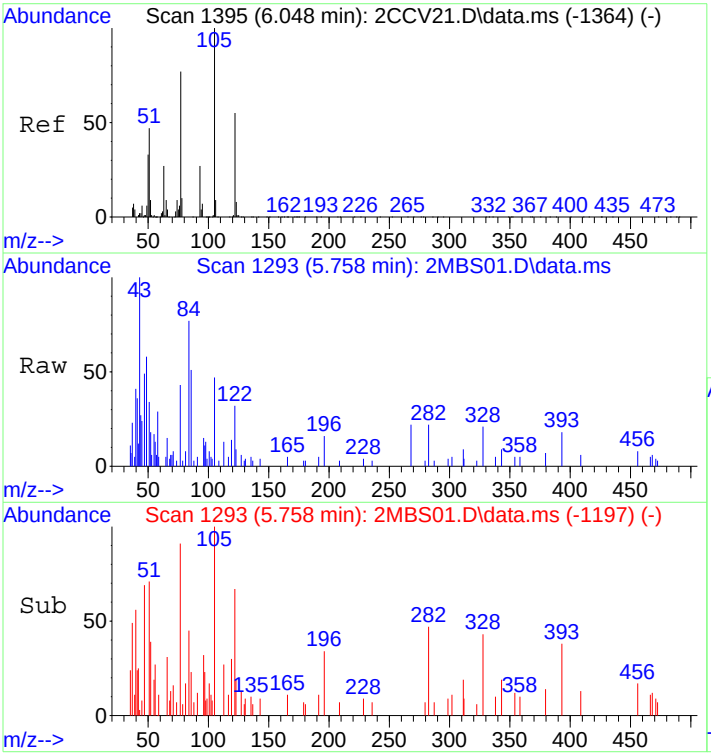


#8
Phenol
Concen: 0.35 ug/mL
RT: 4.002 min Scan# 675
Delta R.T. -0.006 min
Lab File: 2MBS01.D
Acq: 2 Dec 10 7:05 pm

Tgt Ion: 94 Resp: 12793

Ion	Ratio	Lower	Upper
94	100		
65	19.0	1.0	61.0
66	47.6	8.1	68.1

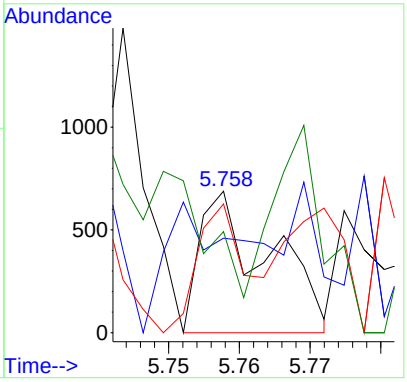


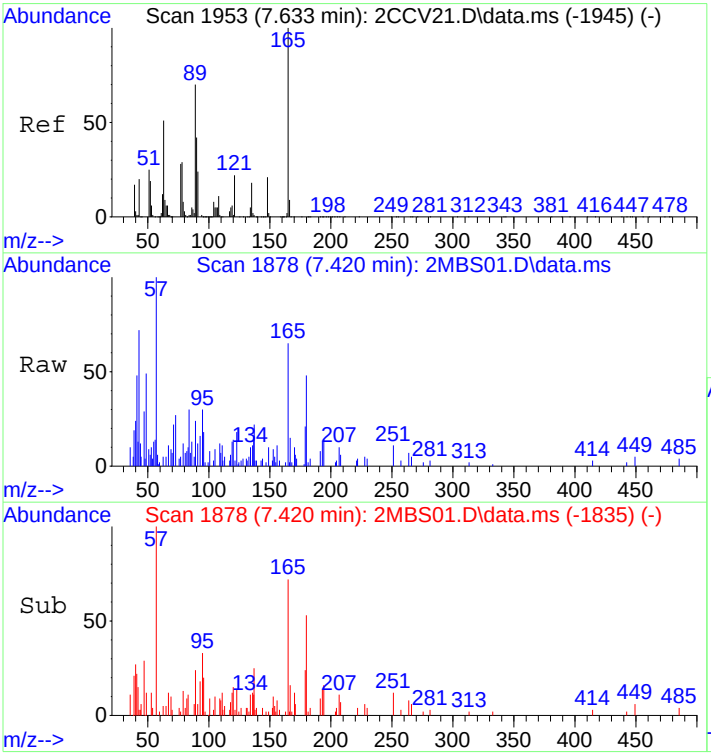


#30
Benzoic acid
Concen: 2.94 ug/mL
RT: 5.758 min Scan# 1293
Delta R.T. -0.002 min
Lab File: 2MBS01.D
Acq: 2 Dec 10 7:05 pm

Tgt Ion:105 Resp: 468

Ion	Ratio	Lower	Upper
105	100		
122	27.4	54.1	114.1#
77	77.2	45.9	105.9
51	22.9	17.6	77.6

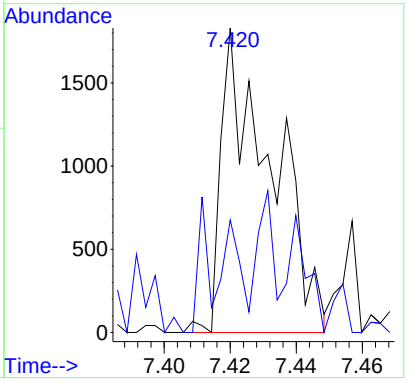


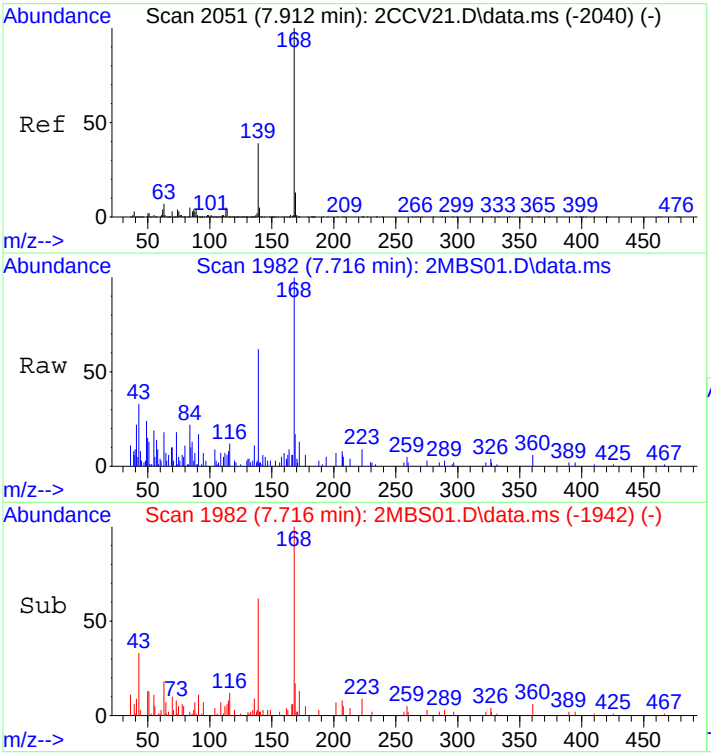


#49
26Dinitrotolu
Concen: 0.11 ug/mL
RT: 7.420 min Scan# 1878
Delta R.T. -0.023 min
Lab File: 2MBS01.D
Acq: 2 Dec 10 7:05 pm

Tgt Ion:165 Resp: 1932

Ion	Ratio	Lower	Upper
165	100		
89	36.9	20.8	80.8

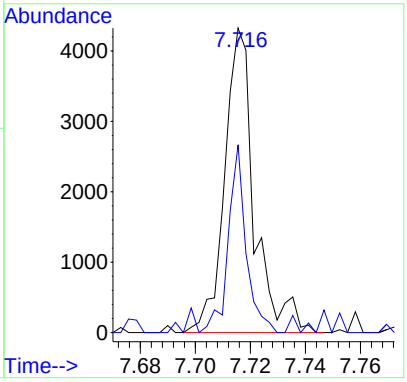


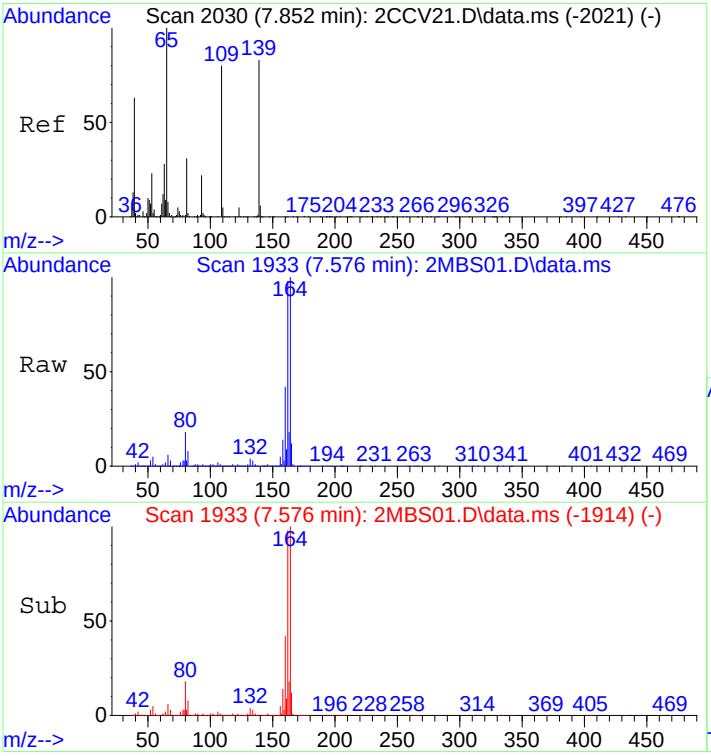


#53
Dibenzofuran
Concen: 0.03 ug/mL
RT: 7.716 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 2MBS01.D
Acq: 2 Dec 10 7:05 pm

Tgt Ion:168 Resp: 3248

Ion	Ratio	Lower	Upper
168	100		
139	61.7	7.1	67.1

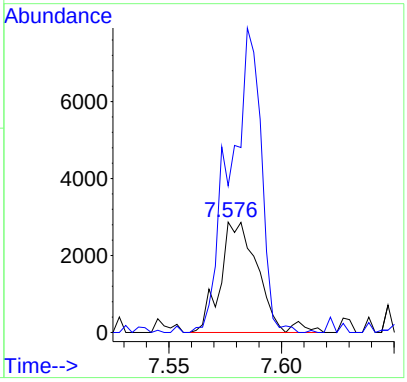


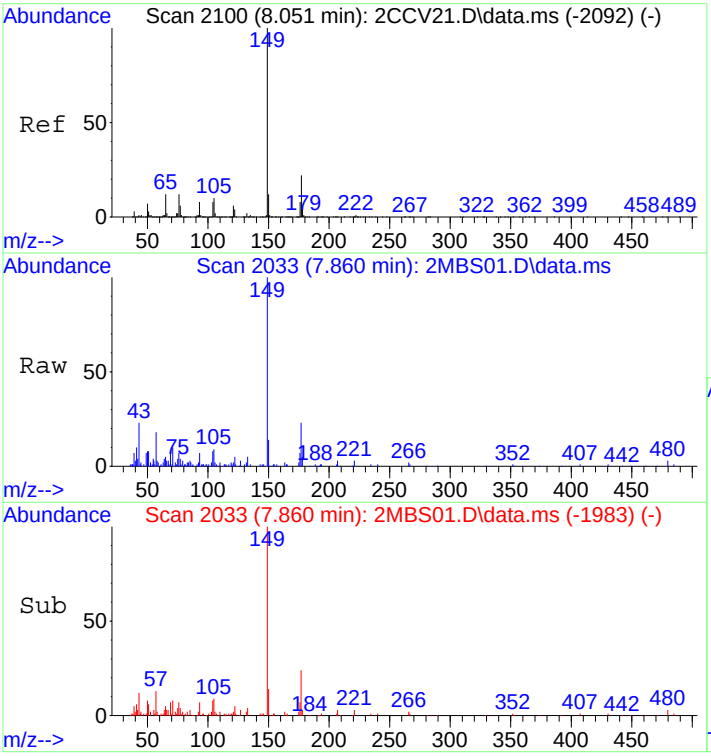


#55
4-Nitrophenol
Concen: 0.57 ug/mL
RT: 7.576 min Scan# 1933
Delta R.T. -0.091 min
Lab File: 2MBS01.D
Acq: 2 Dec 10 7:05 pm

Tgt Ion:109 Resp: 3366

Ion	Ratio	Lower	Upper
109	100		
65	132.9	123.5	183.5

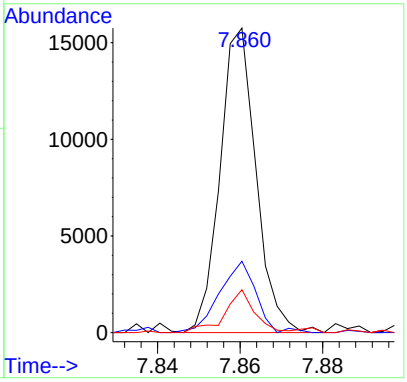


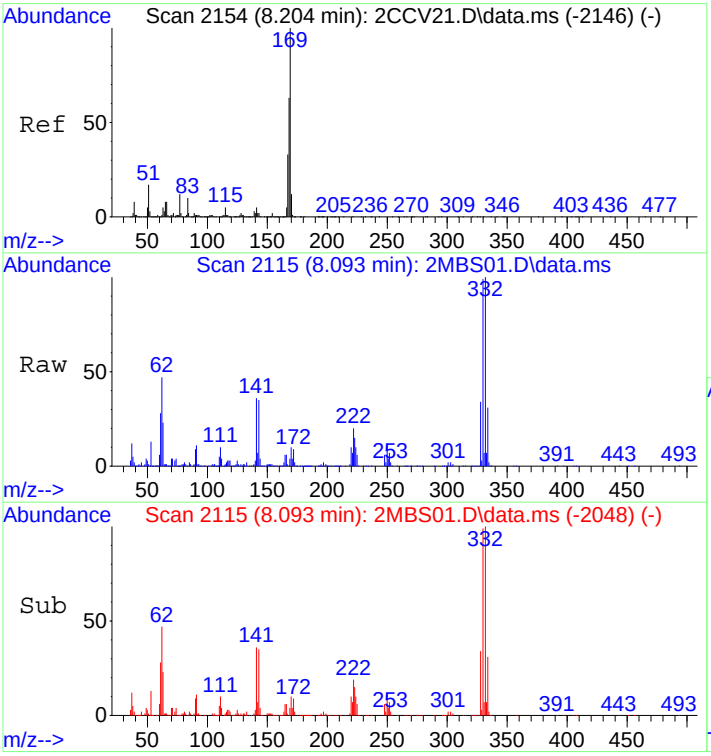


#60
Diethylphthal
Concen: 0.12 ug/mL
RT: 7.860 min Scan# 2033
Delta R.T. -0.003 min
Lab File: 2MBS01.D
Acq: 2 Dec 10 7:05 pm

Tgt Ion:149 Resp: 9565

Ion	Ratio	Lower	Upper
149	100		
177	23.4	0.0	52.2
150	14.1	0.0	42.5

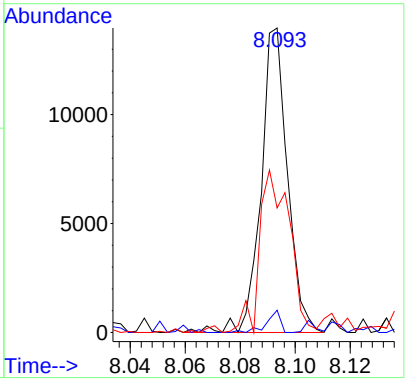


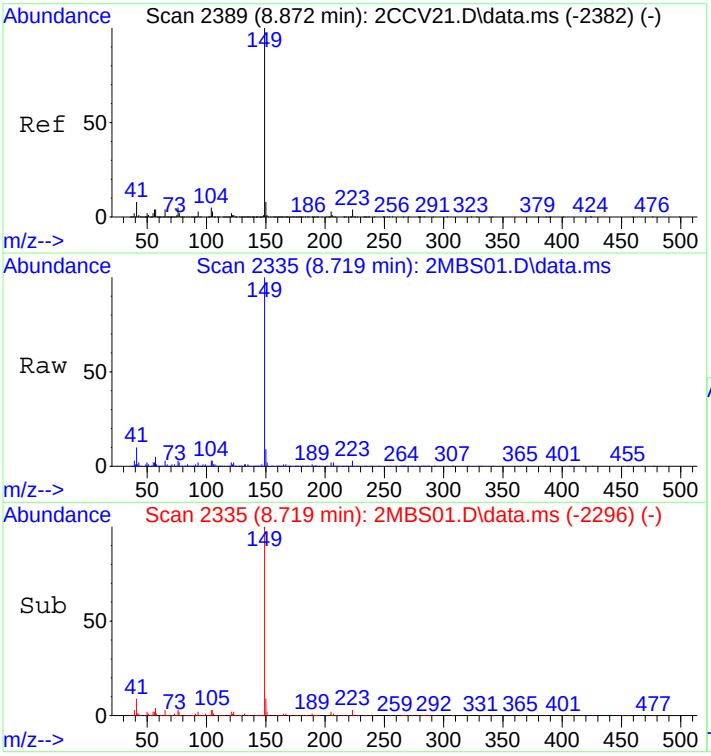


#65
Ntrsdiphlam&Diphlam
Concen: 0.18 ug/mL
RT: 8.093 min Scan# 2115
Delta R.T. 0.076 min
Lab File: 2MBS01.D
Acq: 2 Dec 10 7:05 pm

Tgt Ion:169 Resp: 9362

Ion	Ratio	Lower	Upper
169	100		
168	6.9	34.8	94.8#
167	40.9	4.6	64.6

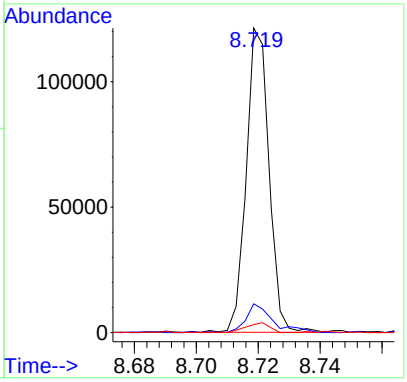


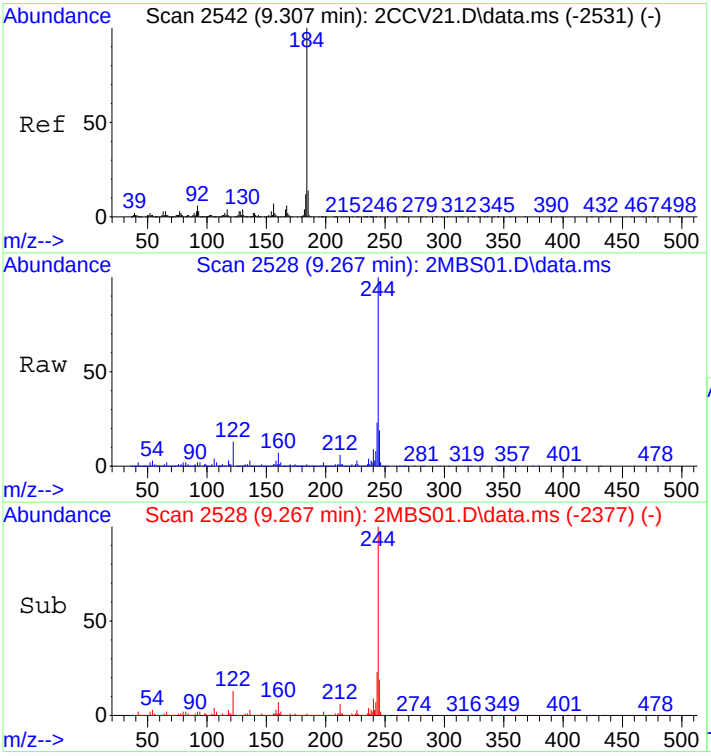


#73
Dinbtylphthal
Concen: 0.58 ug/mL
RT: 8.719 min Scan# 2335
Delta R.T. -0.003 min
Lab File: 2MBS01.D
Acq: 2 Dec 10 7:05 pm

Tgt Ion:149 Resp: 61912

Ion	Ratio	Lower	Upper
149	100		
150	9.4	0.0	38.5
104	2.6	0.0	34.3

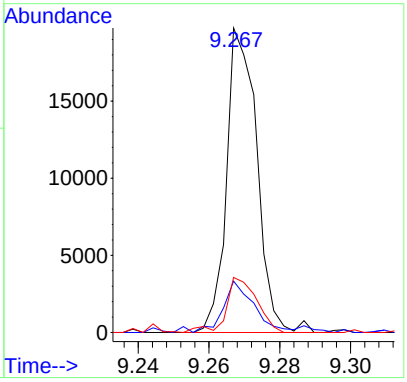


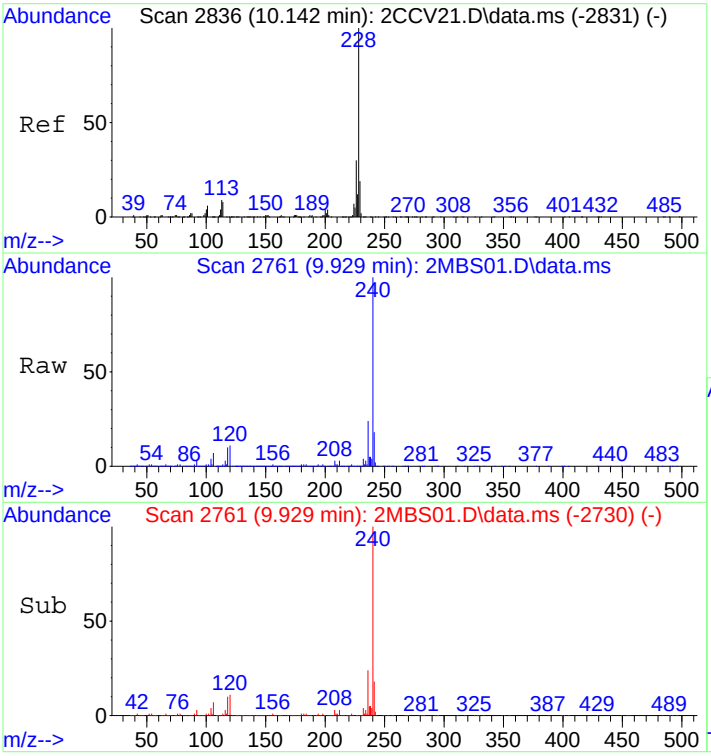


#76
Benzidine
Concen: Below ug/mL
RT: 9.267 min Scan# 2528
Delta R.T. 0.128 min
Lab File: 2MBS01.D
Acq: 2 Dec 10 7:05 pm

Tgt Ion:184 Resp: 11728

Ion	Ratio	Lower	Upper
184	100		
185	16.1	0.0	43.8
183	18.1	0.0	41.8

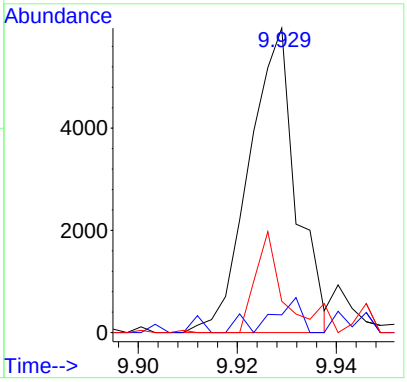


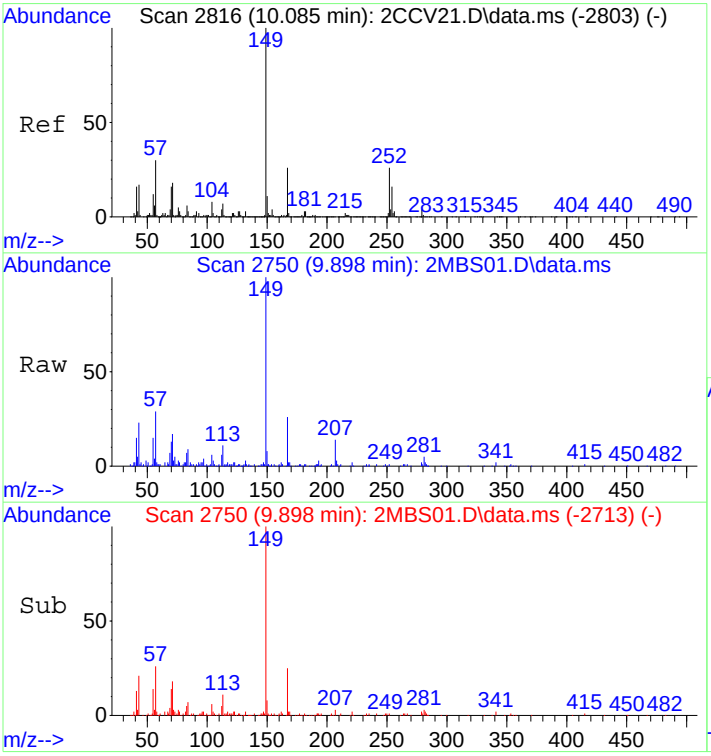


#82
Chrysene
Concen: 0.05 ug/mL
RT: 9.929 min Scan# 2761
Delta R.T. -0.026 min
Lab File: 2MBS01.D
Acq: 2 Dec 10 7:05 pm

Tgt Ion:228 Resp: 3913

Ion	Ratio	Lower	Upper
228	100		
226	5.8	0.0	58.6
229	9.6	0.0	49.6

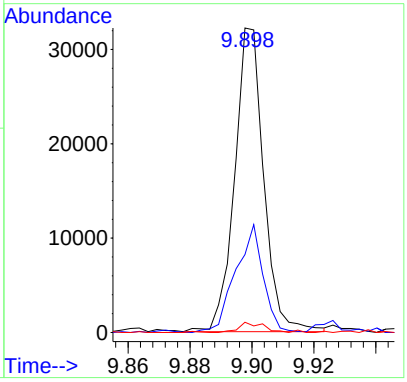




#83
bis2Ethlhxlph
Concen: 0.31 ug/mL
RT: 9.898 min Scan# 2750
Delta R.T. -0.009 min
Lab File: 2MBS01.D
Acq: 2 Dec 10 7:05 pm

Tgt Ion:149 Resp: 21059

Ion	Ratio	Lower	Upper
149	100		
167	25.6	0.0	56.9
279	3.4	0.0	33.6



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2LCSS01.D Vial: 3
Acq On : 2 Dec 2010 19:25 Operator: RPN
Sample : 72179,LCSS,1 Inst : SVMS2
Misc : 874149,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 03 13:29:21 2010

RPN 12/02/10

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Fri Dec 03 13:29:16 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.425	152	569854	20.00	ug/mL	0.00
21) Naphthalened8	6.071	136	2603938	20.00	ug/mL	0.00
39) Acenaphthened10	7.579	164	1310497	20.00	ug/mL	0.00
63) Phenanthrd10	8.469	188	1966475	20.00	ug/mL	0.00
75) Chrysene-d12	9.929	240	1851045	20.00	ug/mL	0.00
85) Perylene-d12	10.895	264	1710163	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	3.172	112	1109805	78.23	%REC	0.01
Spiked Amount 100.000	Range 20 - 110		Recovery = 78.23%			
7) SURRPhenol-d5	3.996	99	1447345	84.93	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 84.93%			
22) SURRNitrbenzened5	5.124	82	524534	83.47	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 83.47%			
44) SURR2Flbiphenyl	7.091	172	1486114	86.67	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 86.67%			
62) SURR246Tribrphenl	8.097	330	364450	91.98	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 91.98%			
78) SURRTerphenyl-d14	9.270	244	1185130	88.14	ug/mL	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 88.14%			
Target Compounds						Qvalue
2) Ntrsdimeth	2.380	74	228707	11.3028	ug/mL	86
3) Pyridine	2.428	79	52461	1.4593	ug/mL	91
5) Aniline	4.056	93	359703	6.5483	ug/mL	95
6) bis2Clethletr	4.124	93	554374	16.2592	ug/mL	99
8) Phenol	4.008	94	696873	16.5913	ug/mL	84
9) 2-Cl-phenol	4.181	128	611152	15.9752	ug/mL	99
10) 13Diclbenz	4.357	146	667509	15.1055	ug/mL	97
11) 14Diclbenz	4.445	146	696100	15.5034	ug/mL	100
12) 12Diclbenz	4.624	146	664407	15.5961	ug/mL	93
13) Benzyl alcoho	4.590	108	308038	16.0405	ug/mL#	74
14) bis2clispreth	4.764	45	1041850	16.0430	ug/mL	95
15) 2Methylphenol	4.721	108	541631	16.8638	ug/mL	93
16) Ntrspyrrol	4.906	100	269197	15.8579	ug/mL	85
17) Acetophenone	4.925	105	765638	15.9756	ug/mL	85
18) Hexaclethane	5.051	117	226337	15.1116	ug/mL	97
19) N-Ntrsdinprop	4.934	70	346005	16.1302	ug/mL	98
20) 3&4Methylphenol	4.925	108	549346	17.1501	ug/mL	99
23) Nitrobenzene	5.150	77	533156	16.6086	ug/mL	82
24) Isophorone	5.505	82	1117910	15.7772	ug/mL	93
25) 2-Nitrophenol	5.607	139	396569	16.5221	ug/mL	76
26) 24Dimthpheno	5.684	107	591207	16.2543	ug/mL	85
27) bis2clethoxym	5.815	93	816978	16.7237	ug/mL	89
28) 24Diclphenol	5.914	162	575964	16.9587	ug/mL	97
29) 124Triclbenz	6.008	180	666106	15.8407	ug/mL	94
30) Benzoic acid	5.764	105	90327	6.0991	ug/mL	81
31) Naphthalene	6.093	128	2203491	16.5809	ug/mL	99
32) 4-Cl-aniline	6.170	127	277978	5.5763	ug/mL	94
33) 26Diclphenol	6.170	162	508642	16.5400	ug/mL	93
34) Hexaclprop	6.193	213	340468	15.7443	ug/mL	98
35) Hexaclbutdien	6.235	225	303164	15.3340	ug/mL	97
36) 4Cl3methylphe	6.667	107	563790	17.3557	ug/mL	90
37) 2Methylnaphth	6.781	141	1247092	16.8113	ug/mL	99
38) 1Methylnaphth	6.866	141	1260284	16.3687	ug/mL	97
40) Hxclcycpentdi	6.914	237	333864	15.4215	ug/mL	98

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2LCSS01.D Vial: 3
Acq On : 2 Dec 2010 19:25 Operator: RPN
Sample : 72179,LCSS,1 Inst : SVMS2
Misc : 874149,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 03 13:29:21 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Fri Dec 03 13:29:16 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

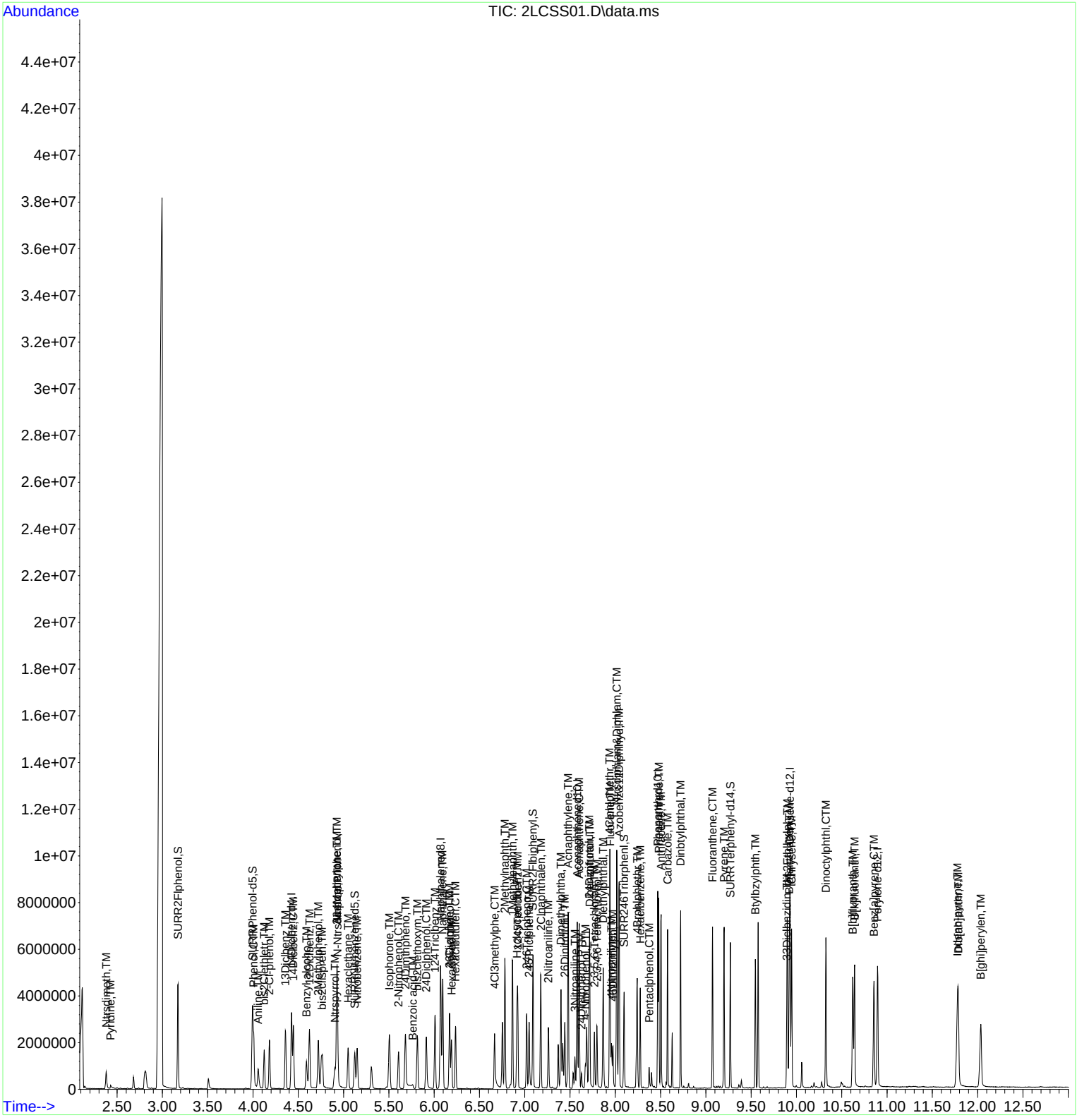
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	6.923	216	592219	16.9664 ug/mL	96
42) 246Triclpheno	7.022	196	392630	17.0769 ug/mL	98
43) 245Triclpheno	7.048	196	428101	17.5305 ug/mL	99
45) 2Clnaphthalen	7.179	162	1295445	17.1121 ug/mL	98
46) 2Nitroaniline	7.261	65	322972	18.2710 ug/mL#	67
47) Acnaphthylene	7.480	152	2247091	17.3255 ug/mL	98
48) Dimethylphtha	7.400	163	1539025	17.2996 ug/mL	99
49) 26Dinitrotolu	7.443	165	345541	17.9566 ug/mL	81
50) Acenaphthene	7.602	153	1412678	17.3245 ug/mL	99
51) 3Nitroaniline	7.554	138	208186	10.1083 ug/mL	85
52) 24Dinitphenol	7.628	184	100997	10.1877 ug/mL#	70
53) Dibenzofuran	7.719	168	1841240	17.3541 ug/mL	95
54) 24Dinitrotolu	7.713	165	439382	18.4451 ug/mL	81
55) 4-Nitrophenol	7.670	109	113776	17.2388 ug/mL	80
56) 2,3,5,6-Tetrachlorop	7.770	232	236990	12.9203 ug/mL	97
57) 2,3,4,6-Tetrachlorop	7.798	232	283726	14.6440 ug/mL	96
58) Fluorene	7.943	166	1448578	16.9323 ug/mL	99
59) 4Clphlphlethr	7.937	204	651110	17.1098 ug/mL	100
60) Diethylphthal	7.866	149	1604844	17.8721 ug/mL	97
61) 4Nitroaniline	7.957	138	378178	18.7101 ug/mL#	72
64) 46Dinit2mylph	7.974	198	223328	15.6725 ug/mL	88
65) Ntrsdiphlam&Diphlam	8.017	169	2046099	35.0303 ug/mL	99
66) Azobenz&12Diphlhyd	8.043	182	754467	34.1911 ug/mL#	71
67) 4Brphlphlethr	8.241	248	388210	18.1923 ug/mL	91
68) Hexaclbenzene	8.276	284	365649	16.5196 ug/mL	95
69) Pentaclphenol	8.375	266	68649	7.9867 ug/mL	88
70) Phenanthrene	8.480	178	1800585	17.2683 ug/mL	99
71) Anthracene	8.506	178	1847919	17.4804 ug/mL	98
72) Carbazole	8.577	167	1634351	18.2494 ug/mL	98
73) Dinbtylphthal	8.722	149	2267812	18.7551 ug/mL	99
74) Fluoranthene	9.074	202	1807329	17.1764 ug/mL	96
76) Benzidine	9.136	184	16582	Below Cal	98
77) Pyrene	9.202	202	1918777	17.3827 ug/mL	93
79) Btylbzylphth	9.546	149	947797	17.6591 ug/mL	92
80) 33Diclbnzidin	9.892	252	336049	15.9280 ug/mL	98
81) B[a]anthracen	9.921	228	1784738	17.3369 ug/mL	98
82) Chrysene	9.946	228	1688406	17.1181 ug/mL	99
83) bis2Ethlhxlph	9.901	149	1378759	17.6751 ug/mL	99
84) Dinoctylphthl	10.324	149	2494861	18.0002 ug/mL	99
86) B[b]fluoranth	10.623	252	1673158	16.6096 ug/mL	97
87) B[k]fluoranth	10.642	252	1648975	17.3299 ug/mL	98
88) Benz[a]pyrene	10.856	252	1585191	17.2411 ug/mL	98
89) Indeno-pyrene	11.776	276	1674678	17.9383 ug/mL	94
90) Dib[ah]anthr	11.788	278	1378133	18.1938 ug/mL	95
91) B[ghi]perylen	12.035	276	1396187	18.0047 ug/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\2LCSS01.D Vial: 3
Acq On : 2 Dec 2010 19:25 Operator: RPN
Sample : 72179,LCSS,1 Inst : SVMS2
Misc : 874149,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 03 13:29:21 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Fri Dec 03 13:29:16 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M



Quantitation Report (Not Reviewed)

Data File : C:\INSTARCH\DATA\2S120510\2LCSS02R.D Vial: 19
Acq On : 5 Dec 2010 20:01 Operator: RPN
Sample : 72179,LCSS,1 Inst : SVMS2
Misc : 874149,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Jan 05 11:50:53 2011

JJY
01/05/11

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Wed Jan 05 11:50:49 2011
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.417	152	402037	20.00	ug/mL	0.00
21) Naphthalened8	6.068	136	1868468	20.00	ug/mL	0.00
39) Acenaphthened10	7.576	164	921563	20.00	ug/mL	0.00
63) Phenanthrd10	8.477	188	1415000	20.00	ug/mL	0.00
75) Chrysene-d12	9.929	240	1240692	20.00	ug/mL	0.00
85) Perylene-d12	10.890	264	1159099	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	3.161	112	768223	76.76	%REC	0.01
Spiked Amount 100.000	Range 20 - 110		Recovery = 76.76%			
7) SURRPhenol-d5	3.988	99	979508	81.47	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 81.47%			
22) SURRNitrbenzened5	5.113	82	377751	83.78	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 83.78%			
44) SURR2Flbiphenyl	7.090	172	1029762	85.40	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 85.40%			
62) SURR246Tribrphenl	8.094	330	245929	88.26	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 88.26%			
78) SURRTerphenyl-d14	9.273	244	804539	89.28	ug/mL	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 89.28%			
Target Compounds						Qvalue
2) Ntrsdimeth	2.340	74	226768	15.8850	ug/mL	85
3) Pyridine	2.388	79	48066	1.8952	ug/mL	95
5) Aniline	4.047	93	202823	5.2336	ug/mL	93
6) bis2Clethletr	4.116	93	400478	16.6484	ug/mL	98
8) Phenol	4.002	94	473028	15.9629	ug/mL	83
9) 2-Cl-phenol	4.172	128	427509	15.8394	ug/mL	99
10) 13Diclbenz	4.349	146	484447	15.5390	ug/mL	95
11) 14Diclbenz	4.437	146	500694	15.8061	ug/mL	97
12) 12Diclbenz	4.613	146	478802	15.9307	ug/mL	93
13) Benzyl alcoho	4.584	108	109705	8.7477	ug/mL#	73
14) bis2clispreth	4.755	45	722390	15.7670	ug/mL	95
15) 2Methylphenol	4.715	108	373905	16.5010	ug/mL	100
16) Ntrspyrrol	4.891	100	211995	17.7010	ug/mL	83
17) Acetophenone	4.917	105	552720	16.3469	ug/mL	83
18) Hexaclethane	5.039	117	161168	15.2521	ug/mL	98
19) N-Ntrsdinprop	4.922	70	240810	15.9122	ug/mL	94
20) 3&4Methylphenol	4.917	108	396784	17.5579	ug/mL	99
23) Nitrobenzene	5.138	77	383277	16.6393	ug/mL	86
24) Isophorone	5.496	82	818312	16.0948	ug/mL	95
25) 2-Nitrophenol	5.599	139	275100	15.9728	ug/mL	79
26) 24Dimthpheno	5.675	107	412799	15.8166	ug/mL	90
27) bis2clethoxym	5.809	93	566531	16.1618	ug/mL	90
28) 24Diclphenol	5.908	162	410709	16.8530	ug/mL	92
29) 124Triclbenz	6.005	180	479008	15.8752	ug/mL	95
30) Benzoic acid	5.800	105	2265	3.0336	ug/mL#	11
31) Naphthalene	6.090	128	1564621	16.4078	ug/mL	99
32) 4-Cl-aniline	6.164	127	231604	6.4748	ug/mL	93
33) 26Diclphenol	6.167	162	353847	16.0355	ug/mL	98
34) Hexaclprop	6.187	213	237742	15.3214	ug/mL	97
35) Hexaclbutdien	6.232	225	217342	15.3203	ug/mL	96
36) 4Cl3methylphe	6.667	107	382384	16.4047	ug/mL	85
37) 2Methylnaphth	6.781	141	890812	16.7353	ug/mL	97
38) 1Methylnaphth	6.863	141	893442	16.1718	ug/mL	95
40) Hxclcycpentdi	6.912	237	222887	14.6655	ug/mL	96

Quantitation Report (Not Reviewed)

Data File : C:\INSTARCH\DATA\2S120510\2LCSS02R.D Vial: 19
Acq On : 5 Dec 2010 20:01 Operator: RPN
Sample : 72179,LCSS,1 Inst : SVMS2
Misc : 874149,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Jan 05 11:50:53 2011

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Wed Jan 05 11:50:49 2011
Response via : Initial Calibration
DataAcq Meth:2S120210.M

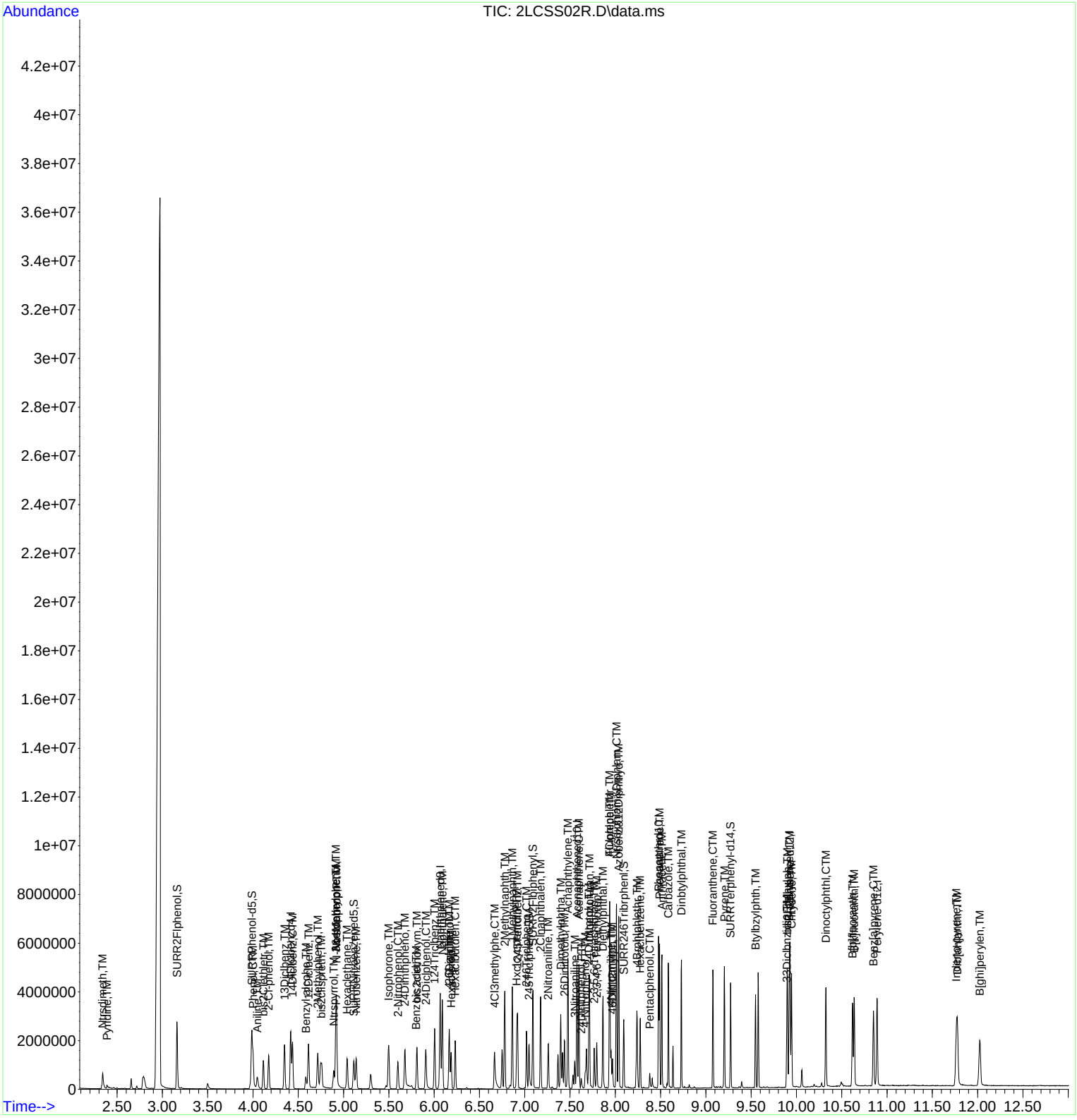
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	6.920	216	420339	17.1245 ug/mL	95
42) 246Triclpheno	7.019	196	268705	16.6193 ug/mL	91
43) 245Triclpheno	7.048	196	293563	17.0946 ug/mL	100
45) 2Clnaphthalen	7.176	162	922599	17.3304 ug/mL	98
46) 2Nitroaniline	7.258	65	224283	18.0428 ug/mL#	70
47) Acnaphthylene	7.477	152	1578209	17.3038 ug/mL	98
48) Dimethylphtha	7.397	163	1040495	16.6319 ug/mL	98
49) 26Dinitrotolu	7.440	165	235880	17.4312 ug/mL	79
50) Acenaphthene	7.599	153	977922	17.0543 ug/mL	99
51) 3Nitroaniline	7.554	138	170598	11.7791 ug/mL	79
52) 24Dinitphenol	7.625	184	62161	9.2133 ug/mL#	63
53) Dibenzofuran	7.716	168	1293395	17.3354 ug/mL	93
54) 24Dinitrotolu	7.707	165	303161	18.0976 ug/mL	83
55) 4-Nitrophenol	7.667	109	78572	16.9292 ug/mL	80
56) 2,3,5,6-Tetrachlorop	7.767	232	158307	12.2960 ug/mL	95
57) 2,3,4,6-Tetrachlorop	7.795	232	192796	14.1620 ug/mL	96
58) Fluorene	7.937	166	1022066	16.9888 ug/mL	99
59) 4Clphlphlethr	7.937	204	446454	16.6832 ug/mL	95
60) Diethylphthal	7.863	149	1052747	16.6716 ug/mL	99
61) 4Nitroaniline	7.954	138	269707	18.9751 ug/mL#	71
64) 46Dinit2mylph	7.969	198	140250	13.6782 ug/mL	91
65) Ntrsdiphlam&Diphlam	8.014	169	1455059	34.6202 ug/mL	99
66) Azobenz&12Diphlhyd	8.037	182	537271	33.8375 ug/mL#	76
67) 4Brphlphlethr	8.238	248	276514	18.0082 ug/mL	87
68) Hexaclbenzene	8.275	284	259965	16.3223 ug/mL	98
69) Pentaclphenol	8.381	266	48666	7.9049 ug/mL	87
70) Phenanthrene	8.489	178	1300086	17.3277 ug/mL	100
71) Anthracene	8.514	178	1320152	17.3550 ug/mL	98
72) Carbazole	8.585	167	1201429	18.6438 ug/mL	98
73) Dinbtylphthal	8.730	149	1536093	17.6548 ug/mL	98
74) Fluoranthene	9.077	202	1279197	16.8952 ug/mL	99
76) Benzidine	9.139	184	5873	Below Cal	87
77) Pyrene	9.205	202	1336185	18.0597 ug/mL	95
79) Btylbzylphth	9.548	149	632363	17.5781 ug/mL	89
80) 33Diclbnzidin	9.892	252	238387	16.8277 ug/mL	96
81) B[a]anthracen	9.921	228	1208061	17.5081 ug/mL	98
82) Chrysene	9.946	228	1175207	17.7765 ug/mL	97
83) bis2Ethlhxlph	9.901	149	899102	17.1963 ug/mL	99
84) Dinoctylphthl	10.324	149	1596677	17.1870 ug/mL	98
86) B[b]fluoranth	10.620	252	1126269	16.4961 ug/mL	100
87) B[k]fluoranth	10.637	252	1097191	17.0130 ug/mL	99
88) Benz[a]pyrene	10.850	252	1054090	16.9152 ug/mL	99
89) Indeno-pyrene	11.765	276	1121462	17.7235 ug/mL	98
90) Dib[ah]anthr	11.776	278	933608	18.1850 ug/mL	98
91) B[ghi]perylen	12.023	276	933739	17.7658 ug/mL	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\INSTARCH\DATA\2S120510\2LCSS02R.D Vial: 19
Acq On : 5 Dec 2010 20:01 Operator: RPN
Sample : 72179,LCSS,1 Inst : SVMS2
Misc : 874149,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Jan 05 11:50:53 2011

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Wed Jan 05 11:50:49 2011
Response via : Initial Calibration
DataAcq Meth:2S120210.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\870201.D Vial: 4
Acq On : 2 Dec 2010 19:45 Operator: RPN
Sample : 72180,870201,1 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 05 16:45:24 2010

RPN 12/05/10

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 14:33:20 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Manual Integration: Benzo(k)fluoranthene. Reason#3

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.425	152	509262	20.00	ug/mL	0.00
21) Naphthalened8	6.065	136	2305009	20.00	ug/mL	0.00
39) Acenaphthened10	7.568	164	1235818	20.00	ug/mL	0.00
63) Phenanthrd10	8.463	188	1852195	20.00	ug/mL	0.00
75) Chrysene-d12	9.935	240	1711956	20.00	ug/mL	0.00
85) Perylene-d12	10.904	264	1393987	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	3.184	112	989297	78.03	%REC	0.02
Spiked Amount 100.000	Range 20 - 110		Recovery = 78.03%			
7) SURRPhenol-d5	3.996	99	1226008	80.51	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 80.51%			
22) SURRNitrbenzened5	5.119	82	420025	75.51	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 75.51%			
44) SURR2Flbiphenyl	7.085	172	1255116	77.62	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 77.62%			
62) SURR246Tribrphenl	8.085	330	319766	85.58	%REC	-0.01
Spiked Amount 100.000	Range 40 - 125		Recovery = 85.58%			
78) SURRTerphenyl-d14	9.273	244	1008299	81.09	ug/mL	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 81.09%			
Target Compounds						Qvalue
2) Ntrsdimeth	2.417	74	675	0.0373	ug/mL#	1
5) Aniline	4.096	93	1753	0.0357	ug/mL#	1
6) bis2Clethletr	4.096	93	1753	0.0575	ug/mL	47
8) Phenol	4.013	94	9655	0.2572	ug/mL	79
12) 12Diclbenz	4.624	146	5421	0.1424	ug/mL	90
13) Benzyl alcoho	4.624	108	328	0.9179	ug/mL#	4
14) bis2clispreth	4.749	45	2287	0.0394	ug/mL	63
15) 2Methylphenol	4.769	108	894	0.0311	ug/mL	96
16) Ntrspyrrol	4.886	100	1119	0.0738	ug/mL#	1
17) Acetophenone	4.920	105	4466	0.1043	ug/mL#	77
18) Hexaclethane	5.031	117	279	0.0208	ug/mL#	10
19) N-Ntrsdinprop	4.883	70	1506	0.0786	ug/mL	89
24) Isophorone	5.494	82	2045	0.0326	ug/mL	76
26) 24Dimthpheno	5.798	107	4906	0.1524	ug/mL#	71
27) bis2clethoxym	5.809	93	2328	0.0538	ug/mL#	47
30) Benzoic acid	5.778	105	164247	9.4384	ug/mL	85
31) Naphthalene	6.088	128	33613	0.2857	ug/mL	98
32) 4-Cl-aniline	6.090	127	5177	0.1173	ug/mL#	46
36) 4Cl3methylphe	6.664	107	782	0.0272	ug/mL	81
37) 2Methylnaphth	6.772	141	22126	0.3369	ug/mL	90
38) 1Methylnaphth	6.855	141	19349	0.2839	ug/mL	81
43) 245Triclpheno	7.042	196	693	0.0301	ug/mL	98
45) 2Clnaphthalen	7.170	162	1606	0.0225	ug/mL	76
46) 2Nitroaniline	7.199	65	9349	0.5608	ug/mL#	36
47) Acnaphthylene	7.471	152	10910	0.0892	ug/mL	82
48) Dimethylphtha	7.386	163	4196	0.0500	ug/mL	91
49) 26Dinitrotolu	7.429	165	2325	0.1281	ug/mL#	49
50) Acenaphthene	7.591	153	11860	0.1542	ug/mL	96
51) 3Nitroaniline	7.557	138	32357	1.6660	ug/mL#	5
52) 24Dinitphenol	7.616	184	535	2.4200	ug/mL#	1
53) Dibenzofuran	7.707	168	18919	0.1891	ug/mL	84
55) 4-Nitrophenol	7.631	109	5526	0.8879	ug/mL#	1
58) Fluorene	7.932	166	15708	0.1947	ug/mL	85
60) Diethylphthal	7.852	149	44074	0.5205	ug/mL	95

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\870201.D Vial: 4
Acq On : 2 Dec 2010 19:45 Operator: RPN
Sample : 72180,870201,1 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 05 16:45:24 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 14:33:20 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

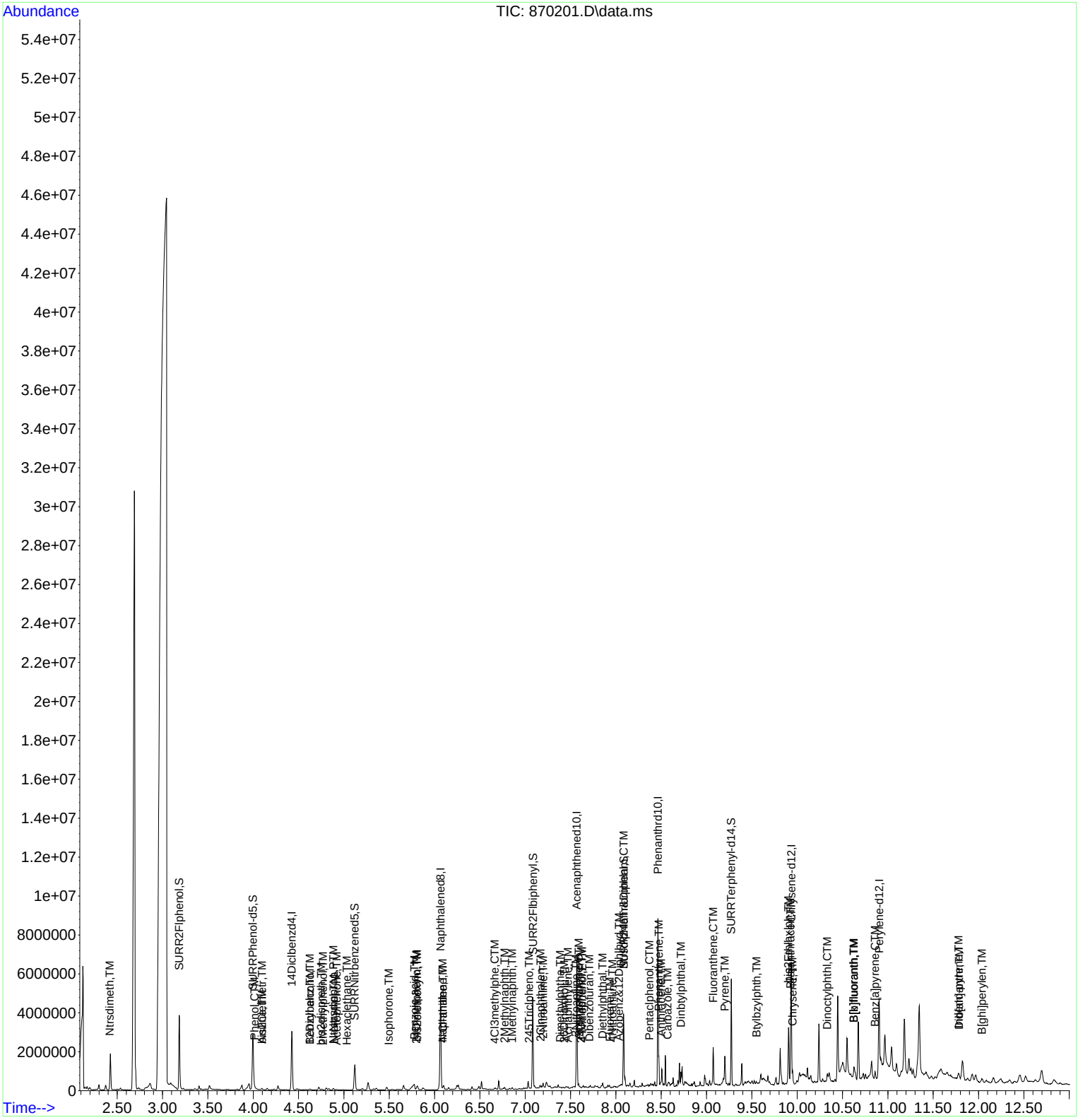
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
61) 4Nitroaniline	7.960	138	503	0.0264 ug/mL#	65
65) Ntrsdiphlam&Diphlam	8.085	169	10594	0.1926 ug/mL#	50
66) Azobenz&12Diphlhyd	8.034	182	10881	0.5235 ug/mL#	1
69) Pentaclphenol	8.369	266	1244	2.5253 ug/mL#	50
70) Phenanthrene	8.474	178	237631	2.4196 ug/mL	99
71) Anthracene	8.500	178	35955	0.3611 ug/mL	95
72) Carbazole	8.571	167	25875	0.3068 ug/mL	99
73) Dinbtylphthal	8.719	149	133879	1.1755 ug/mL	97
74) Fluoranthene	9.074	202	459443	4.6358 ug/mL	98
76) Benzidine	9.273	184	11192	Below Cal	90
77) Pyrene	9.202	202	359842	3.5247 ug/mL	98
79) Btylbzylphth	9.551	149	4962	0.1000 ug/mL	91
80) 33Diclbnzidin	9.958	252	2168	Below Cal #	33
81) B[a]anthracen	9.926	228	172887	1.8159 ug/mL	98
82) Chrysene	9.949	228	182668	2.0025 ug/mL	98
83) bis2Ethlhxlph	9.904	149	626986	8.6907 ug/mL	99
84) Dinoctylphthl	10.330	149	6886	0.0537 ug/mL	84
86) B[b]fluoranth	10.625	252	239192	2.9130 ug/mL	98
87) B[k]fluoranth	10.625	252	313742	4.0451 ug/mL	98
88) Benz[a]pyrene	10.858	252	128885	1.7197 ug/mL	98
89) Indeno-pyrene	11.779	276	87634	1.1516 ug/mL	83
90) Dib[ah]anthr	11.785	278	20623	0.3340 ug/mL	93
91) B[ghi]perylen	12.038	276	72052	1.1399 ug/mL	92

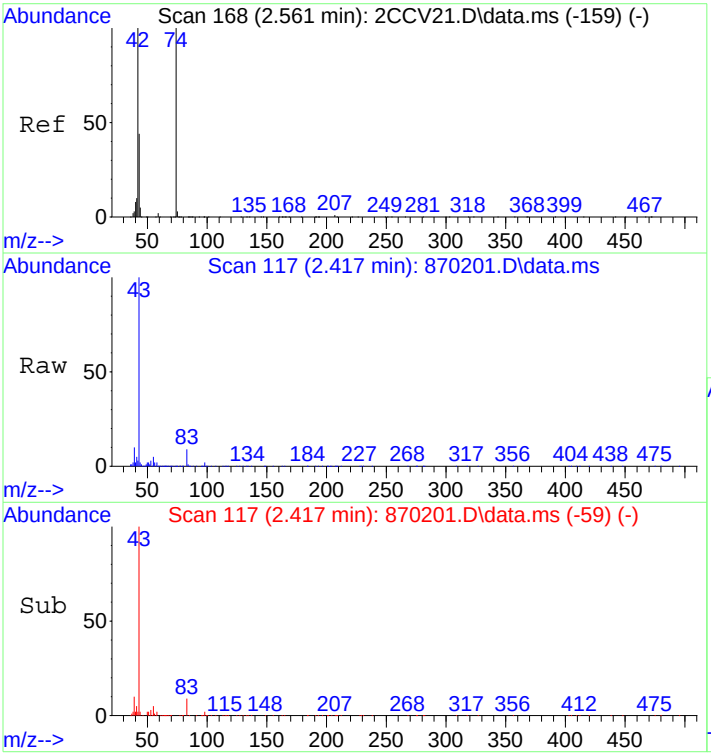
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\870201.D Vial: 4
Acq On : 2 Dec 2010 19:45 Operator: RPN
Sample : 72180,870201,1 Inst : SVMS2
Misc : 500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 05 16:45:24 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 14:33:20 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

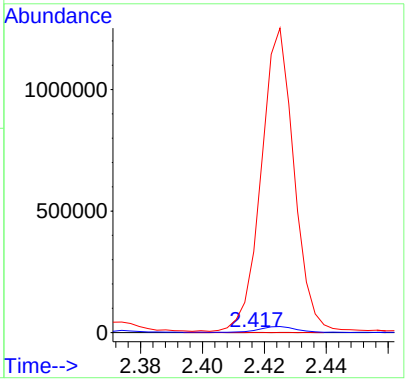


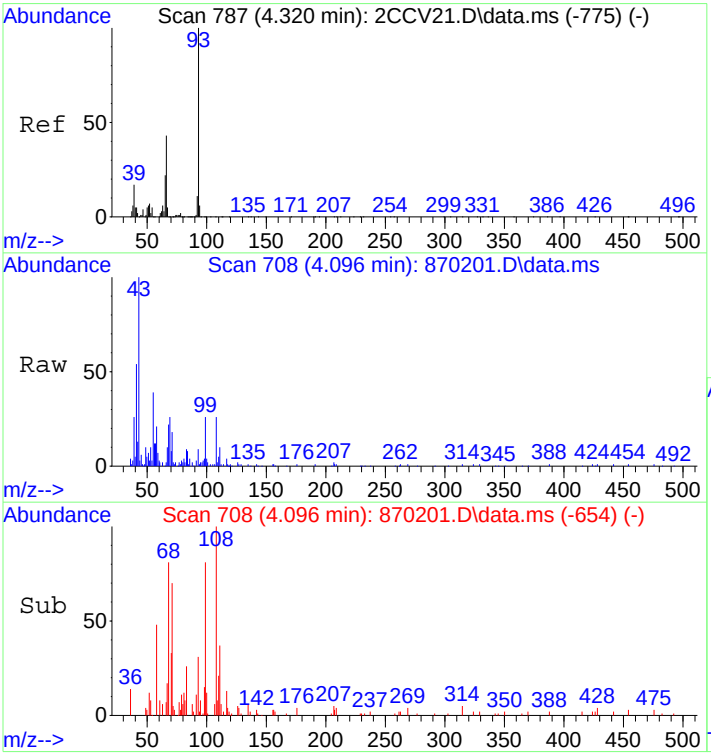


#2
Ntrsdimeth
Concen: 0.04 ug/mL
RT: 2.417 min Scan# 117
Delta R.T. 0.046 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion: 74 Resp: 675

Ion	Ratio	Lower	Upper
74	100		
42	847.8	82.4	142.4#
43	36446.2	17.7	77.7#

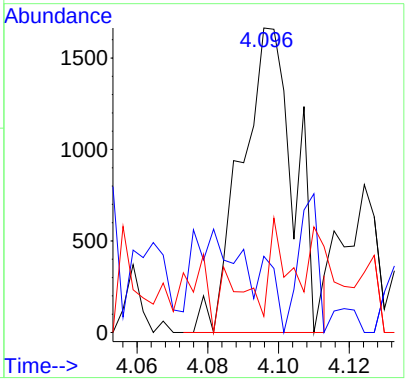


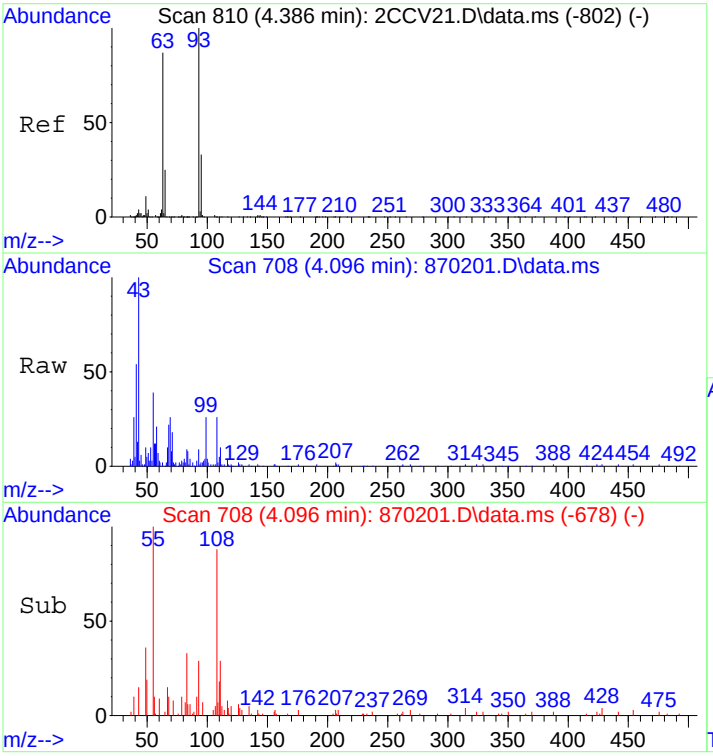


#5
Aniline
Concen: 0.04 ug/mL
RT: 4.096 min Scan# 708
Delta R.T. 0.037 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion: 93 Resp: 1753

Ion	Ratio	Lower	Upper
93	100		
66	2305.0	10.4	70.4#
65	508.6	0.0	51.6#

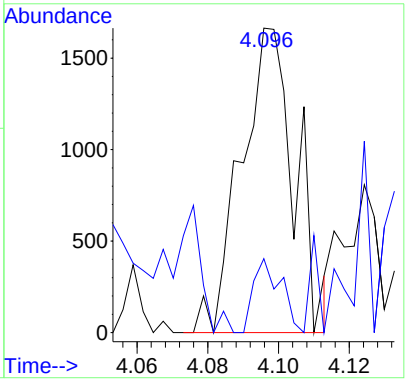


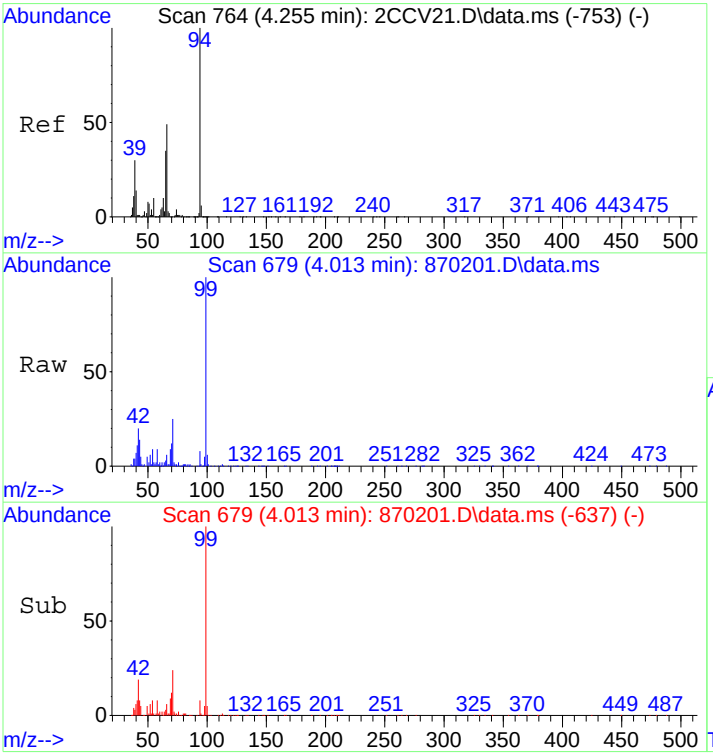


#6
bis2Clethletr
Concen: 0.06 ug/mL
RT: 4.096 min Scan# 708
Delta R.T. -0.031 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion: 93 Resp: 1753

Ion	Ratio	Lower	Upper
93	100		
95	2.8	2.4	62.4

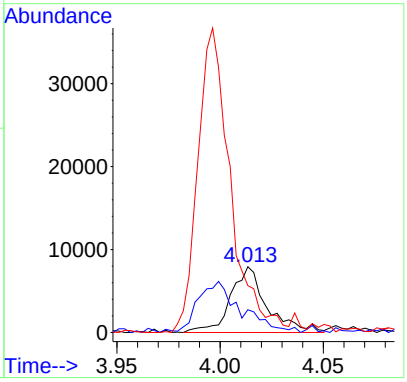


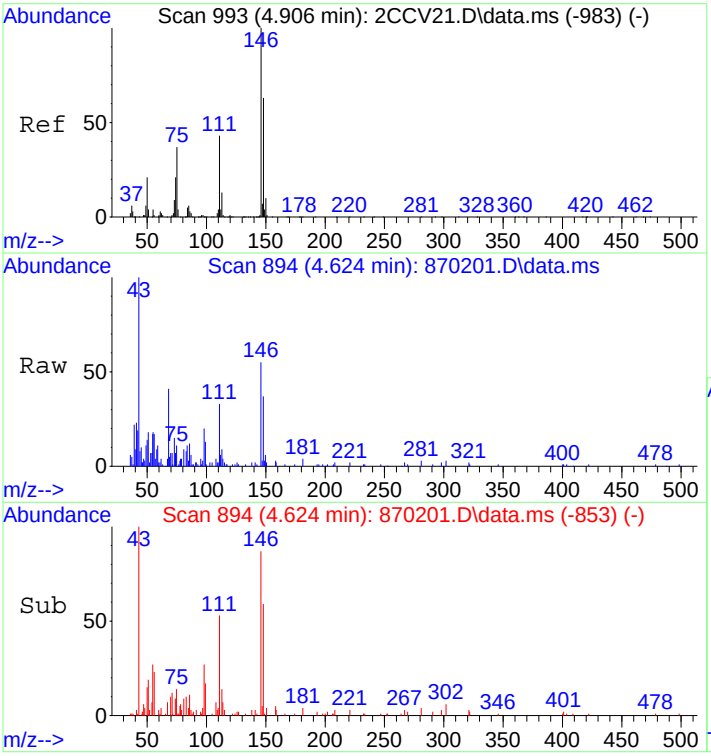


#8
Phenol
Concen: 0.26 ug/mL
RT: 4.013 min Scan# 679
Delta R.T. 0.006 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion: 94 Resp: 9655

Ion	Ratio	Lower	Upper
94	100		
65	32.3	1.0	61.0
66	59.8	8.1	68.1

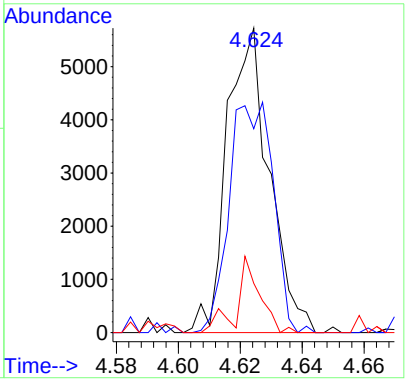


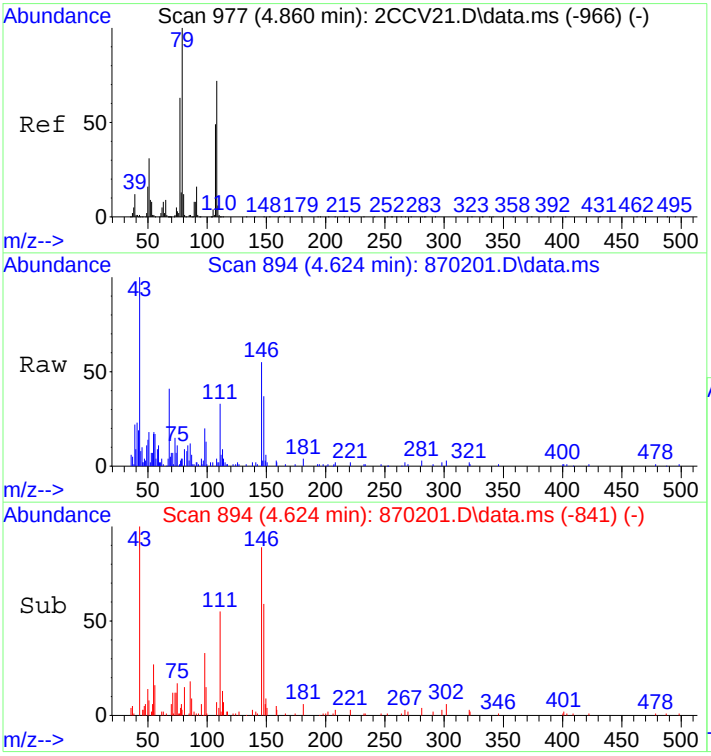


#12
12Diclbenz
Concen: 0.14 ug/mL
RT: 4.624 min Scan# 894
Delta R.T. 0.000 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:146 Resp: 5421

Ion	Ratio	Lower	Upper
146	100		
148	66.9	29.2	89.2
113	16.2	0.0	42.9

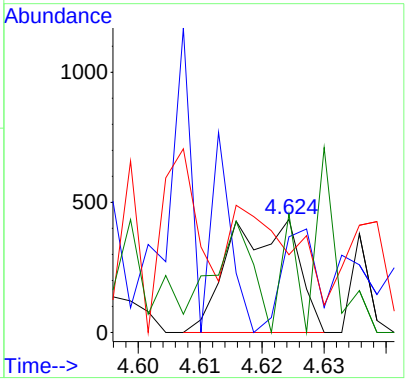


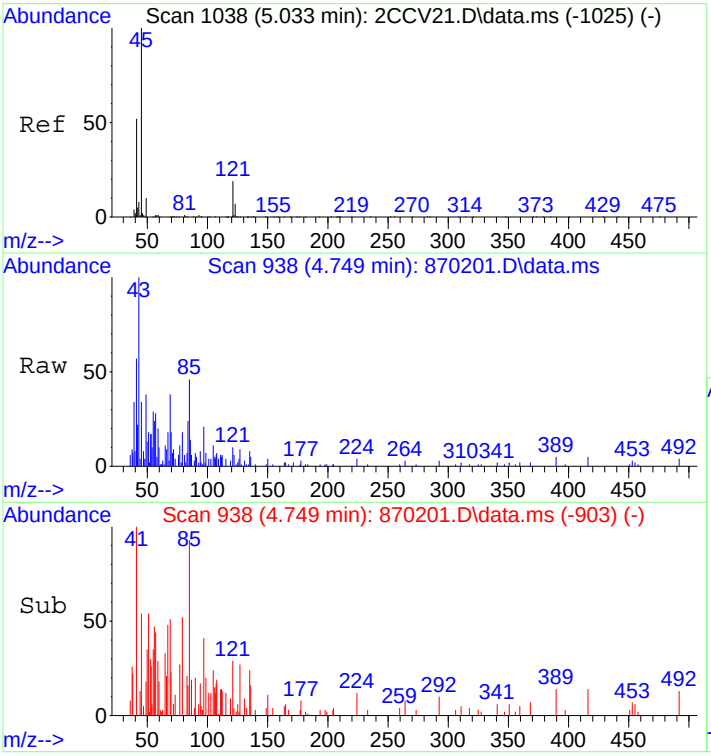


#13
Benzyl alcoho
Concen: 0.92 ug/mL
RT: 4.624 min Scan# 894
Delta R.T. 0.034 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:108 Resp: 328

Ion	Ratio	Lower	Upper
108	100		
79	0.0	104.2	164.2#
77	33.3	55.1	115.1#
91	88.5	0.0	50.3#

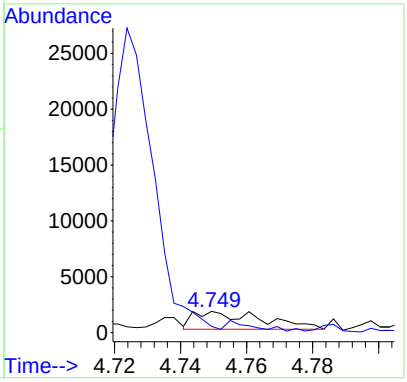


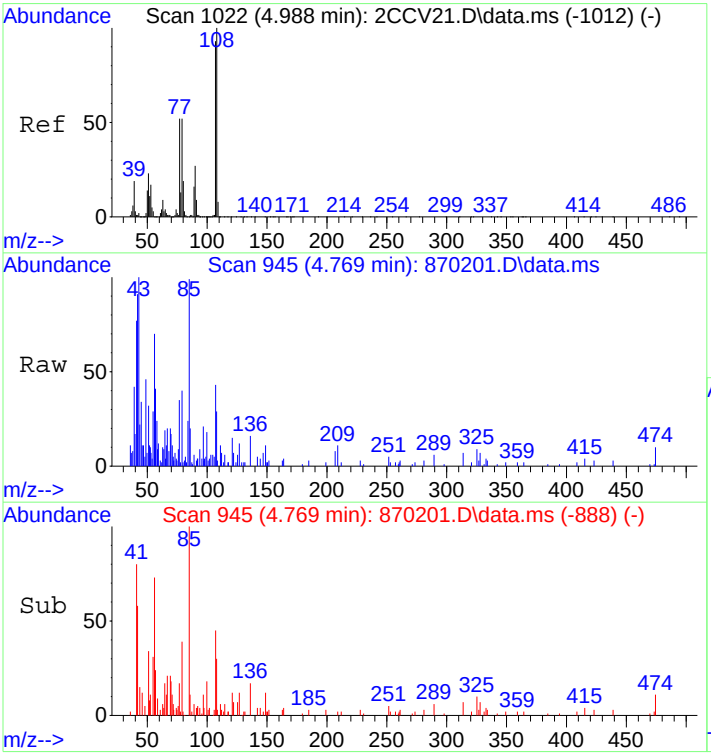


#14
bis2clispreth
Concen: 0.04 ug/mL
RT: 4.749 min Scan# 938
Delta R.T. -0.017 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion: 45 Resp: 2287

Ion	Ratio	Lower	Upper
45	100		
121	0.0	0.0	45.3

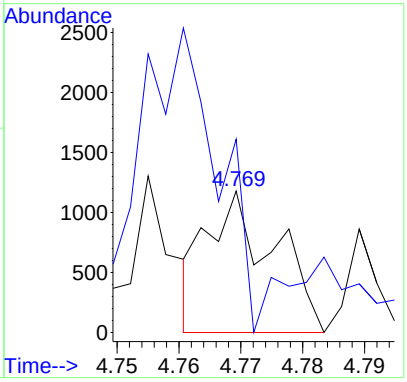


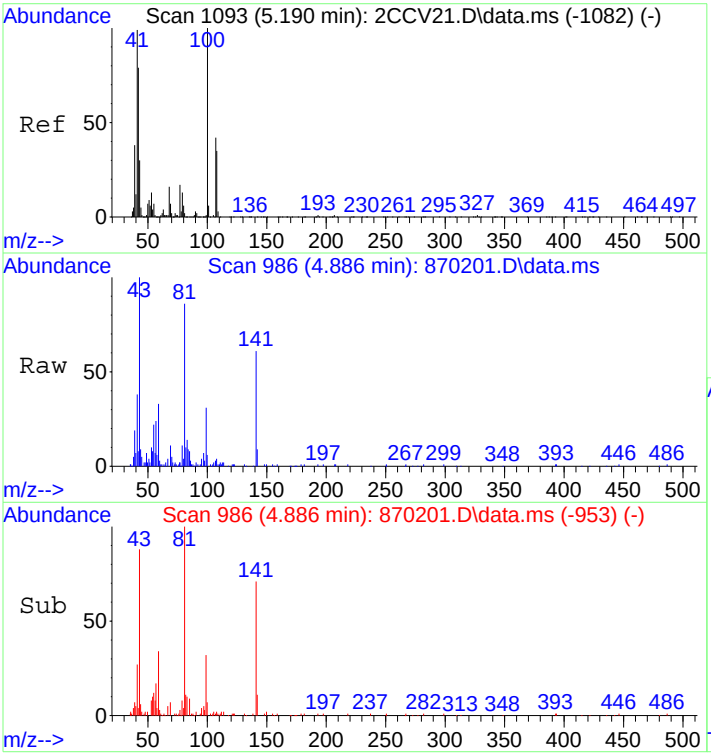


#15
2Methylphenol
Concen: 0.03 ug/mL
RT: 4.769 min Scan# 945
Delta R.T. 0.046 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:108 Resp: 894

Ion	Ratio	Lower	Upper
108	100		
107	83.4	57.3	117.3

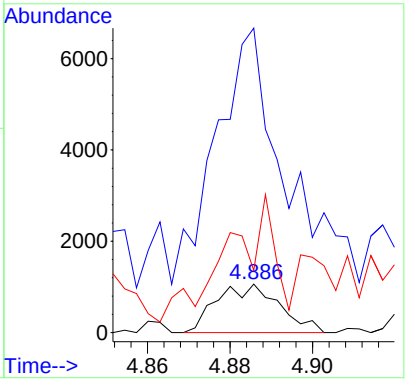


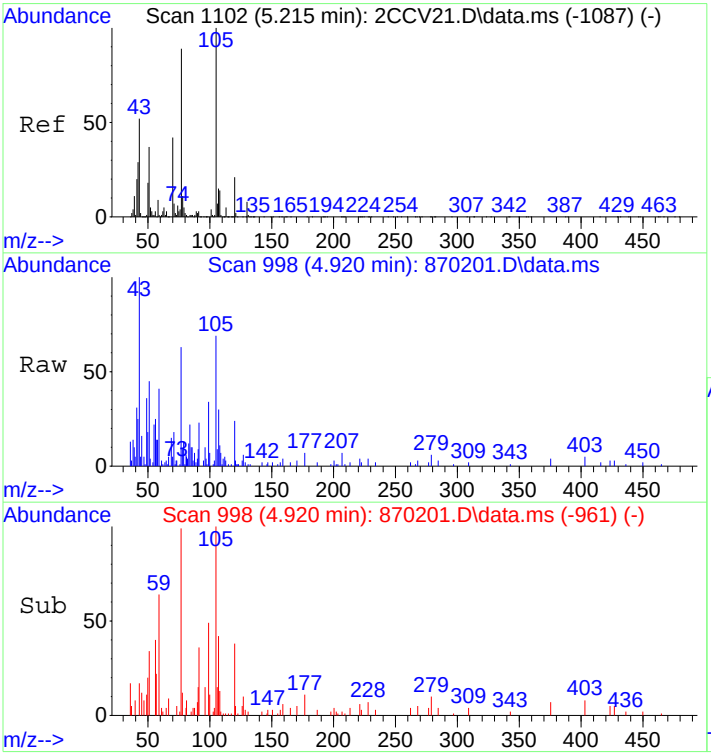


#16
Ntrspyrrol
Concen: 0.07 ug/mL
RT: 4.886 min Scan# 986
Delta R.T. -0.023 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:100 Resp: 1119

Ion	Ratio	Lower	Upper
100	100		
41	414.4	76.4	136.4#
42	37.3	46.7	106.7#

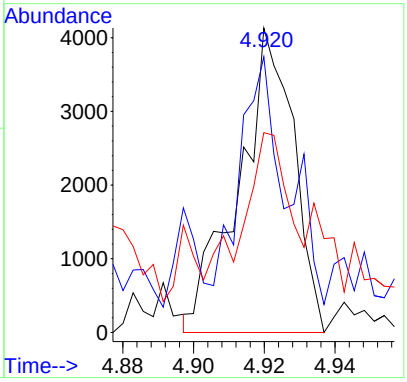


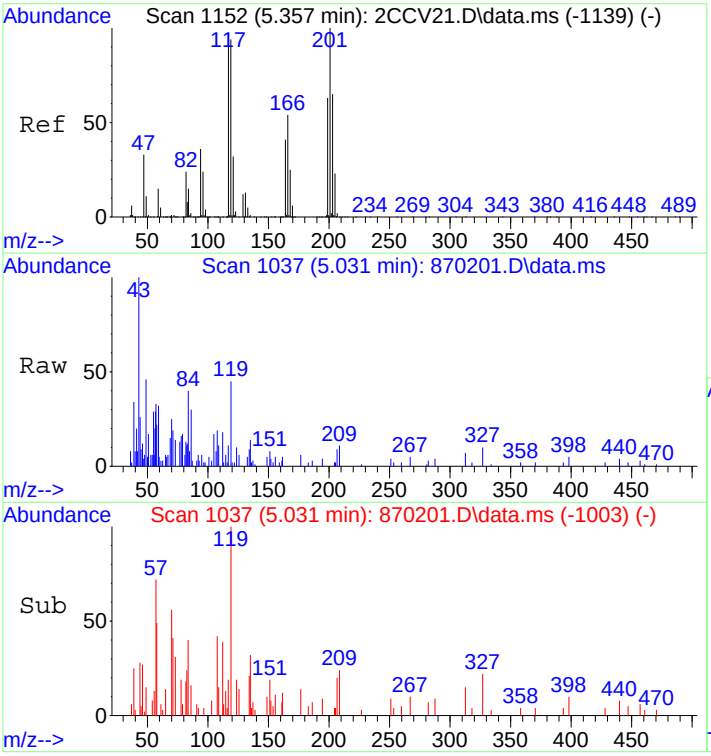


#17
Acetophenone
Concen: 0.10 ug/mL
RT: 4.920 min Scan# 998
Delta R.T. -0.011 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:105 Resp: 4466

Ion	Ratio	Lower	Upper
105	100		
77	68.3	72.2	132.2#
51	50.0	18.8	78.8

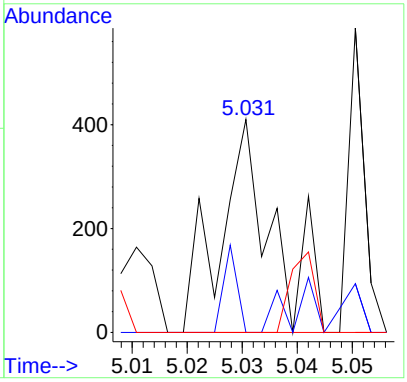


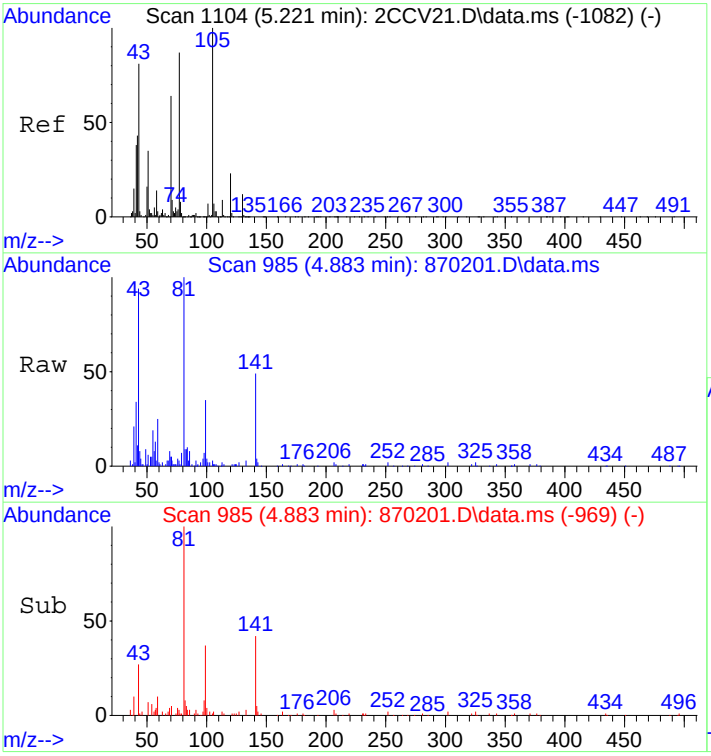


#18
Hexaclethane
Concen: 0.02 ug/mL
RT: 5.031 min Scan# 1037
Delta R.T. -0.020 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:117 Resp: 279

Ion	Ratio	Lower	Upper
117	100		
201	0.0	64.1	124.1#
199	0.0	28.3	88.3#

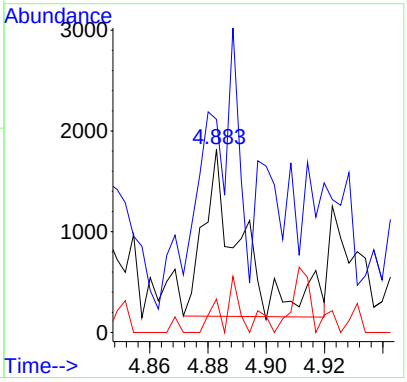


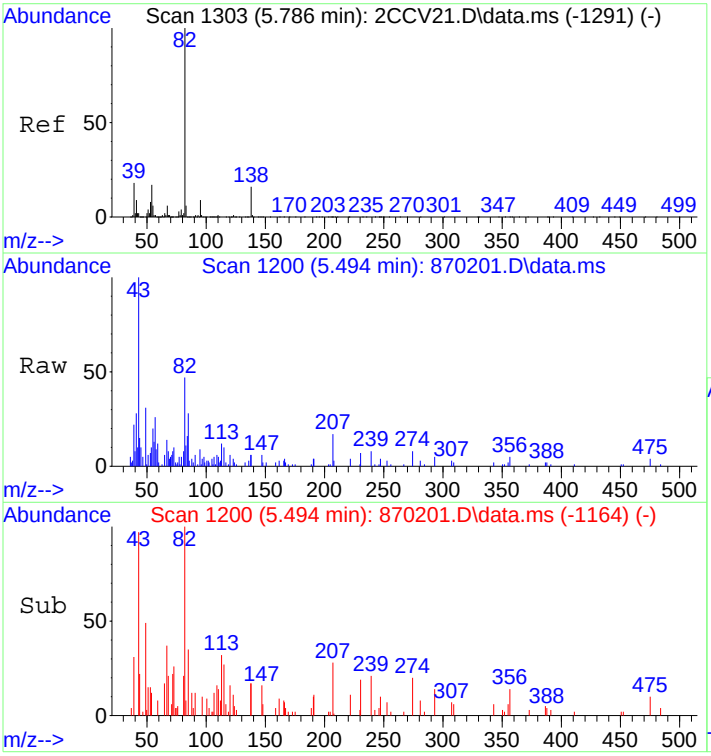


#19
N-Ntrsdinprop
Concen: 0.08 ug/mL
RT: 4.883 min Scan# 985
Delta R.T. -0.054 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion: 70 Resp: 1506

Ion	Ratio	Lower	Upper
70	100		
42	93.3	54.3	114.3
113	20.0	0.0	43.5

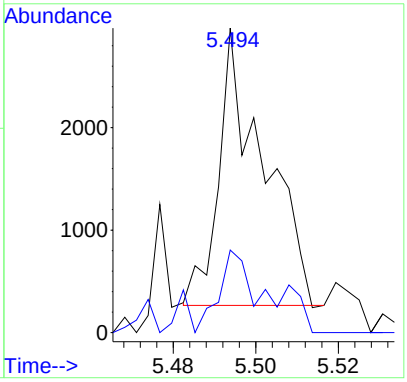


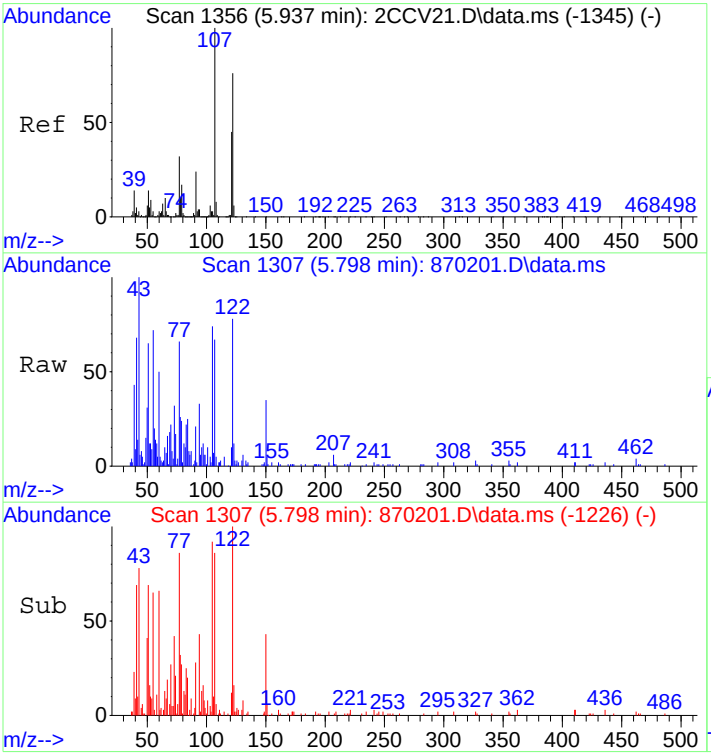


#24
Isophorone
Concen: 0.03 ug/mL
RT: 5.494 min Scan# 1200
Delta R.T. -0.017 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion: 82 Resp: 2045

Ion	Ratio	Lower	Upper
82	100		
138	29.7	0.0	48.8

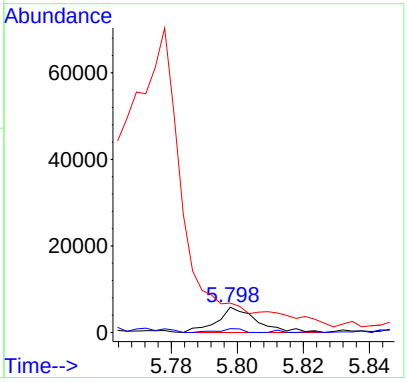


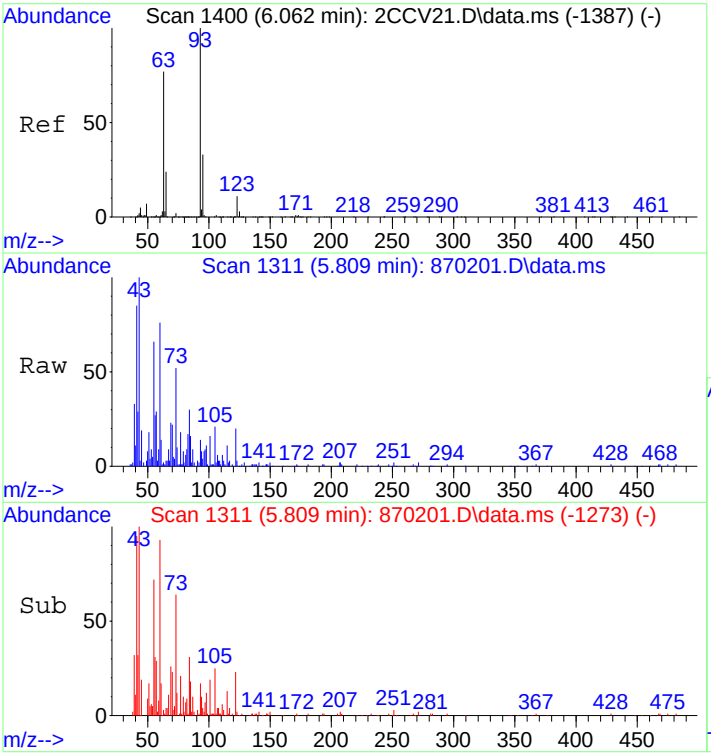


#26
24Dimthpheno
Concen: 0.15 ug/mL
RT: 5.798 min Scan# 1307
Delta R.T. 0.114 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:107 Resp: 4906

Ion	Ratio	Lower	Upper
107	100		
121	14.9	22.2	82.2#
122	73.5	56.3	116.3

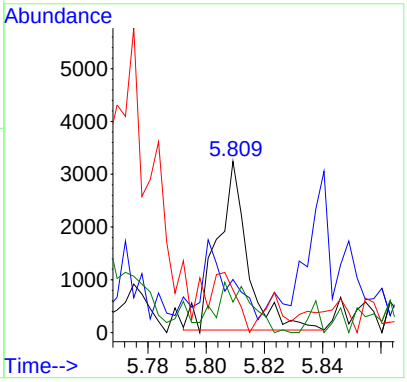


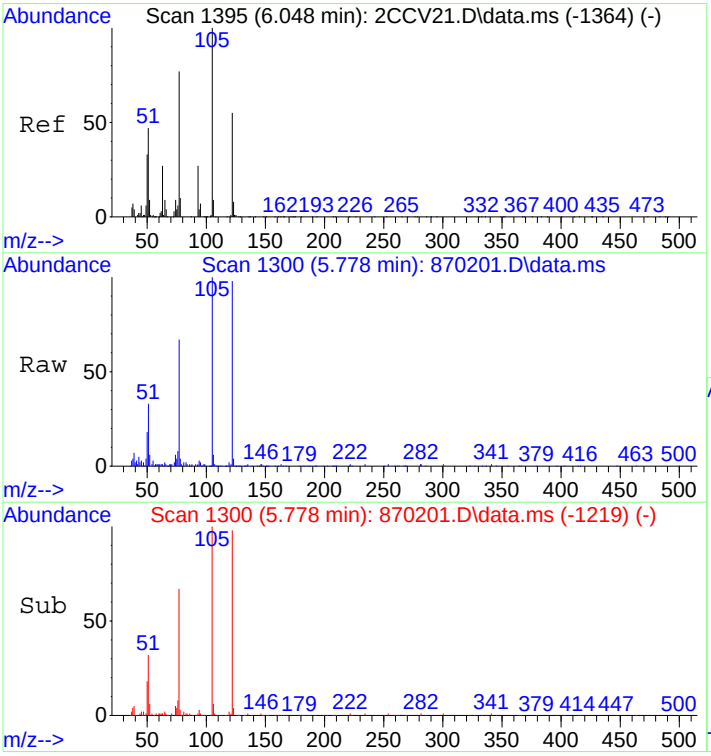


#27
bis2clethoxym
Concen: 0.05 ug/mL
RT: 5.809 min Scan# 1311
Delta R.T. -0.008 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion: 93 Resp: 2328

Ion	Ratio	Lower	Upper
93	100		
95	10.3	1.9	61.9
123	12.9	0.0	42.6
63	18.1	46.9	106.9#

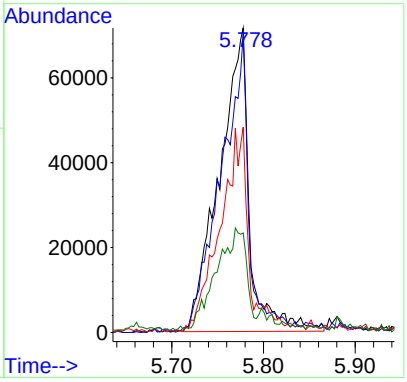


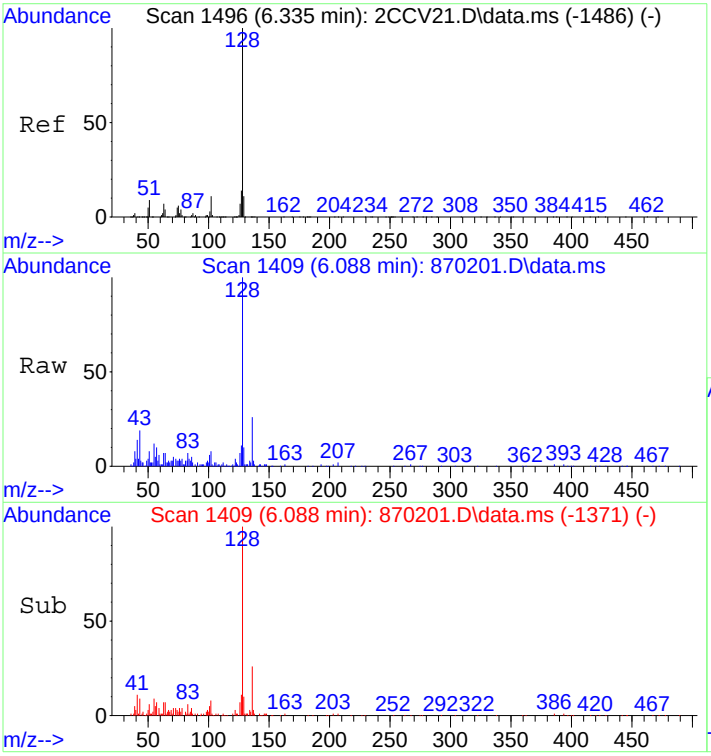


#30
Benzoic acid
Concen: 9.44 ug/mL
RT: 5.778 min Scan# 1300
Delta R.T. -0.043 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:105 Resp: 164247

Ion	Ratio	Lower	Upper
105	100		
122	96.9	54.1	114.1
77	67.1	45.9	105.9
51	31.8	17.6	77.6

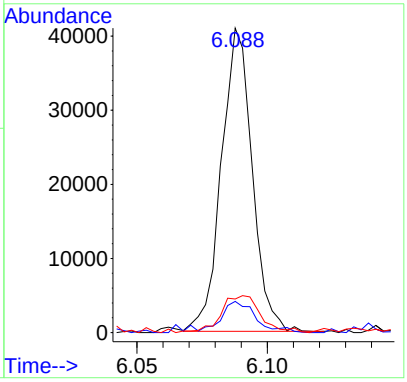


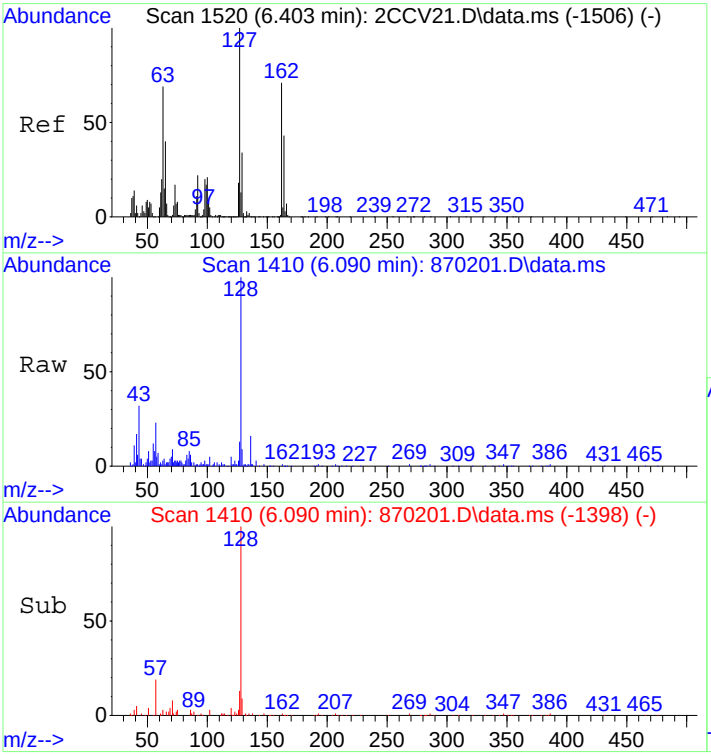


#31
Naphthalene
Concen: 0.29 ug/mL
RT: 6.088 min Scan# 1409
Delta R.T. -0.008 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:128 Resp: 33613

Ion	Ratio	Lower	Upper
128	100		
129	10.3	0.0	40.3
127	10.5	0.0	41.9

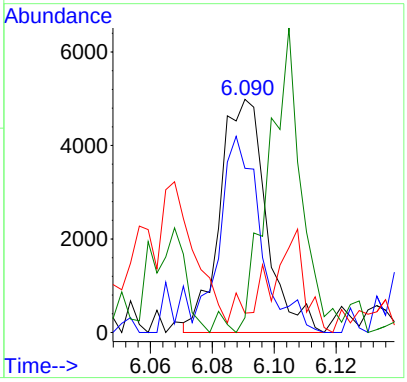


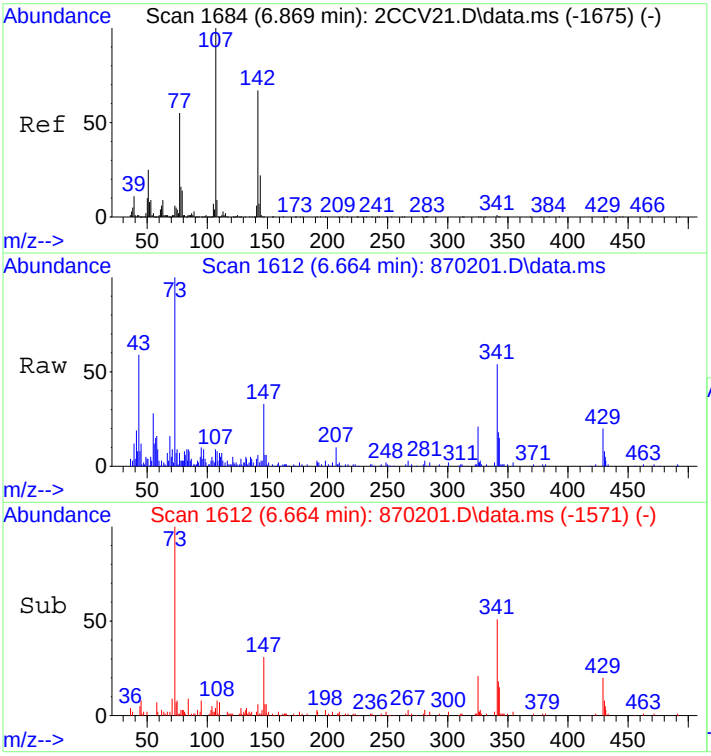


#32
4-Cl-aniline
Concen: 0.12 ug/mL
RT: 6.090 min Scan# 1410
Delta R.T. -0.082 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:127 Resp: 5177

Ion	Ratio	Lower	Upper
127	100		
129	70.4	1.8	61.8#
65	6.2	1.6	61.6
92	0.0	0.0	48.2

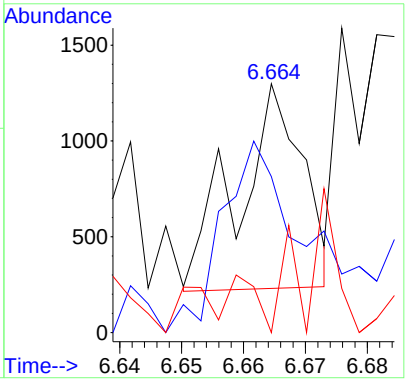


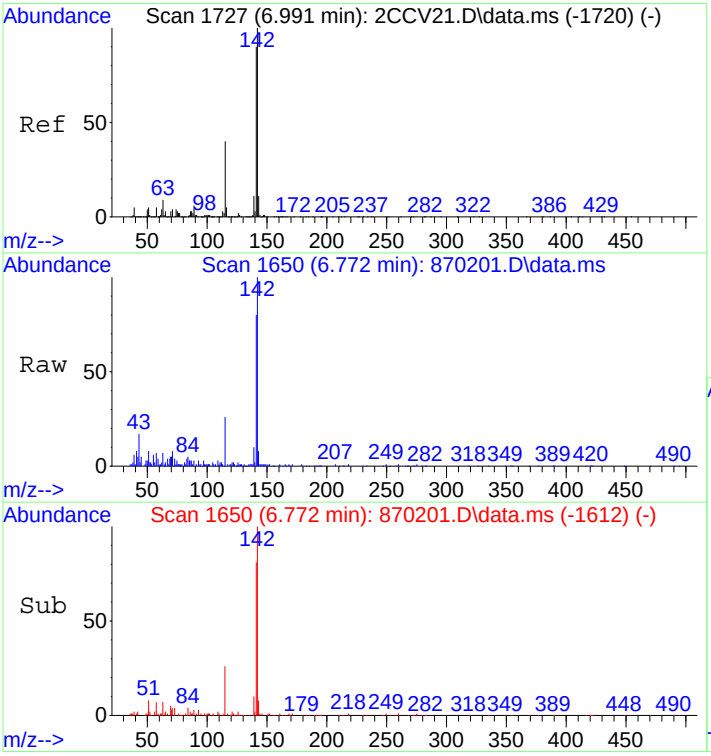


#36
4Cl3methylphe
Concen: 0.03 ug/mL
RT: 6.664 min Scan# 1612
Delta R.T. 0.000 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:107 Resp: 782

Ion	Ratio	Lower	Upper
107	100		
142	63.1	50.0	110.0
144	18.0	0.0	56.8

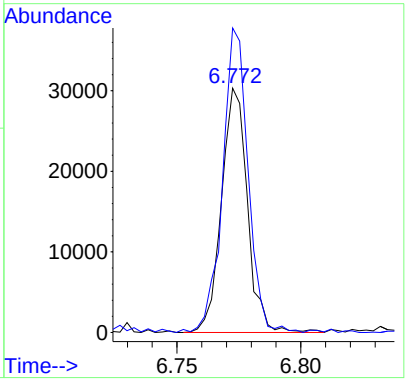


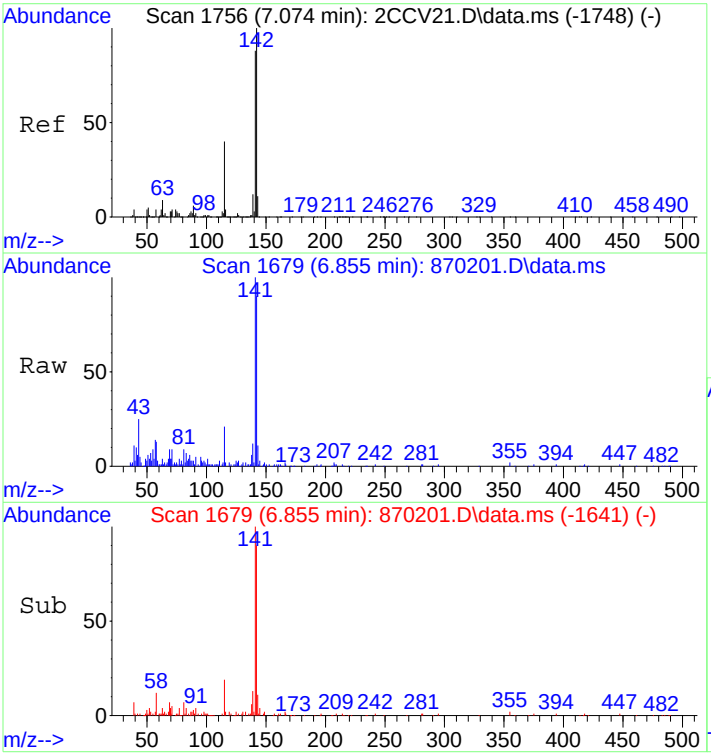


#37
2Methylnaphth
Concen: 0.34 ug/mL
RT: 6.772 min Scan# 1650
Delta R.T. -0.008 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:141 Resp: 22126

Ion	Ratio	Lower	Upper
141	100		
142	124.4	83.7	143.7

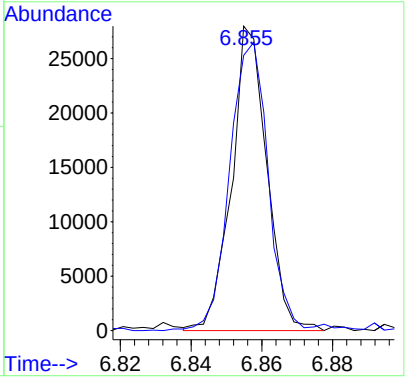


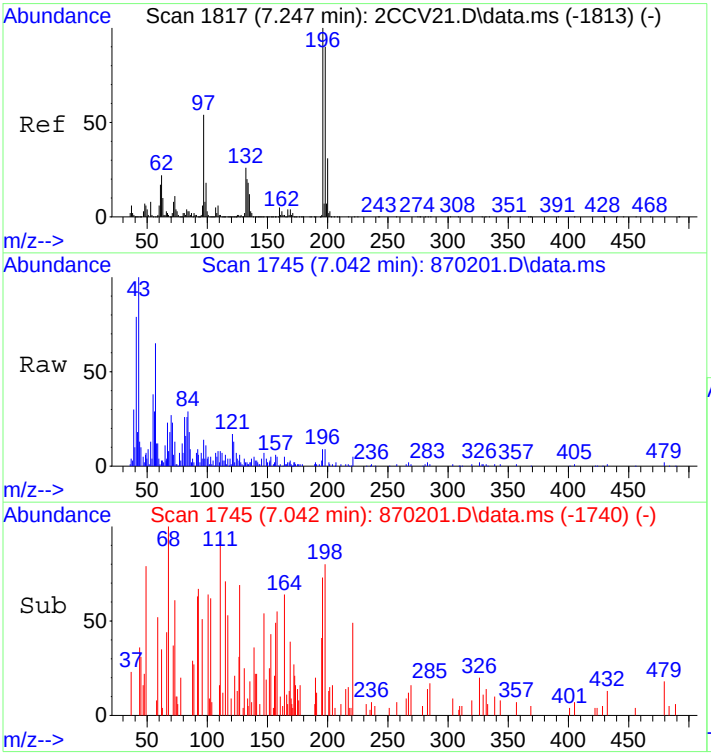


#38
1Methylnaphth
Concen: 0.28 ug/mL
RT: 6.855 min Scan# 1679
Delta R.T. -0.011 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:141 Resp: 19349

Ion	Ratio	Lower	Upper
141	100		
142	89.8	79.5	139.5

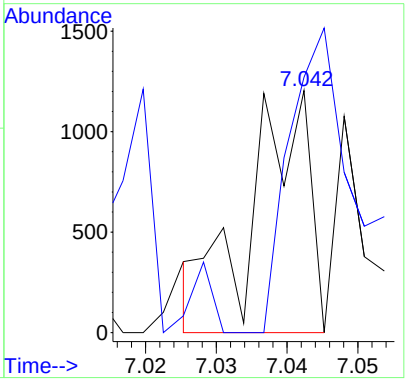


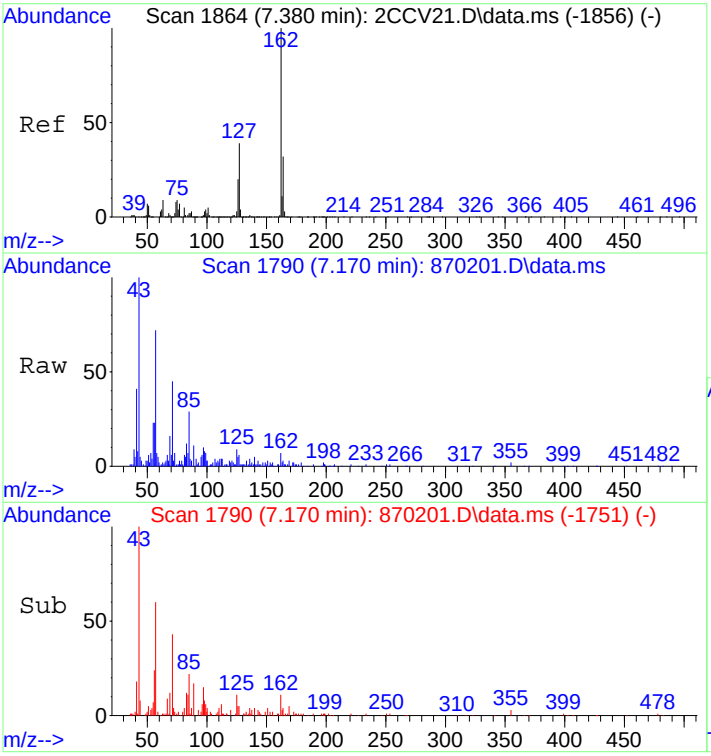


#43
245Triclpheno
Concen: 0.03 ug/mL
RT: 7.042 min Scan# 1745
Delta R.T. -0.006 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:196 Resp: 693

Ion	Ratio	Lower	Upper
196	100		
198	98.6	67.0	127.0

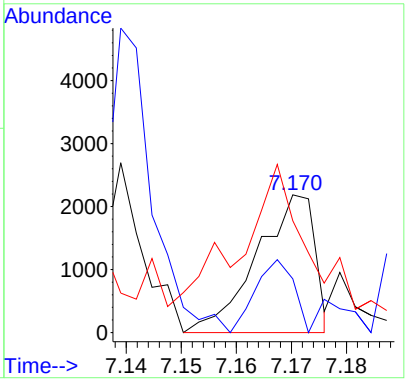


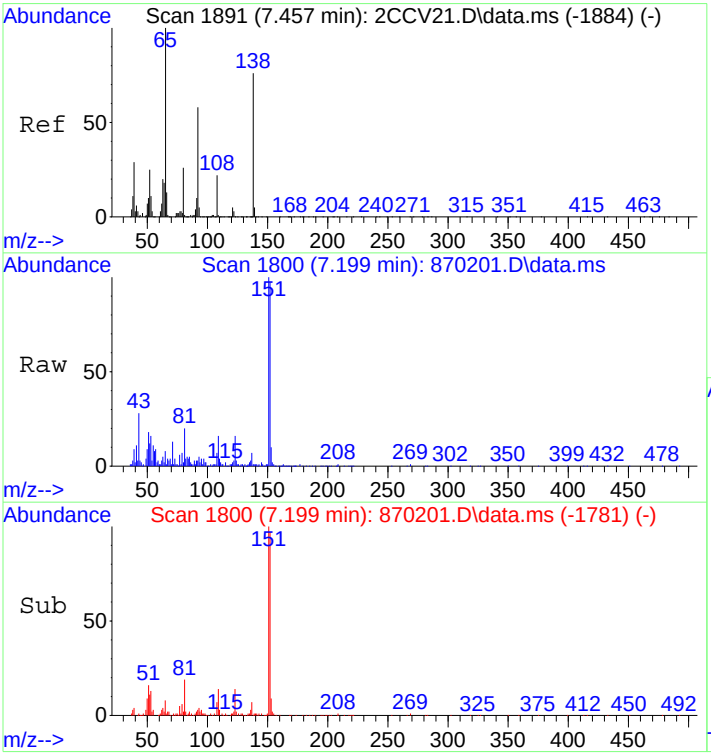


#45
2Clnaphthalen
Concen: 0.02 ug/mL
RT: 7.170 min Scan# 1790
Delta R.T. -0.006 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:162 Resp: 1606

Ion	Ratio	Lower	Upper
162	100		
164	21.5	2.5	62.5
127	54.1	7.1	67.1

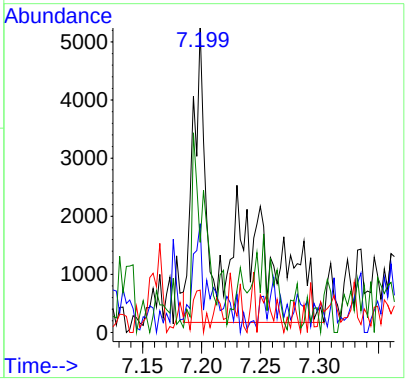


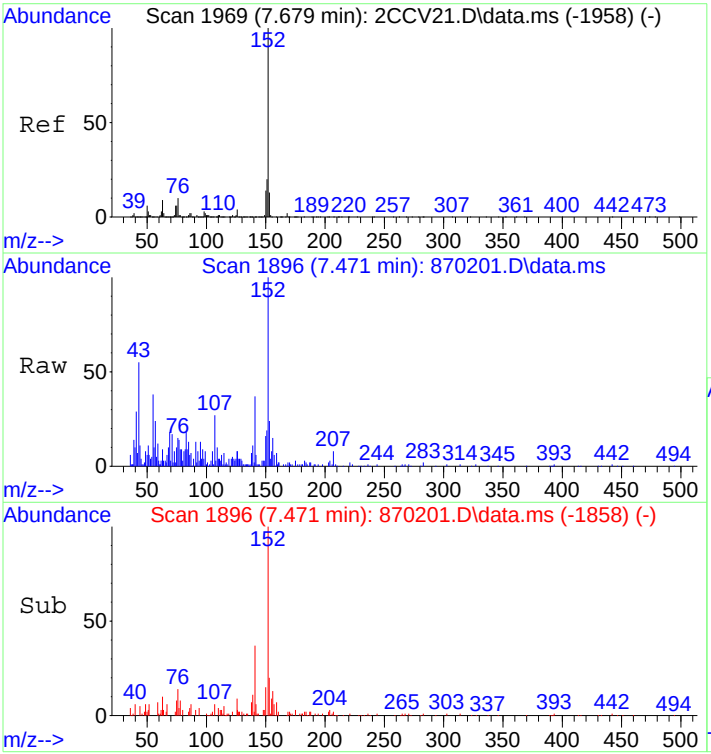


#46
2Nitroaniline
Concen: 0.56 ug/mL
RT: 7.199 min Scan# 1800
Delta R.T. -0.062 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion: 65 Resp: 9349

Ion	Ratio	Lower	Upper
65	100		
92	32.4	32.1	92.1
138	9.2	73.8	133.8#
80	28.9	0.0	55.1

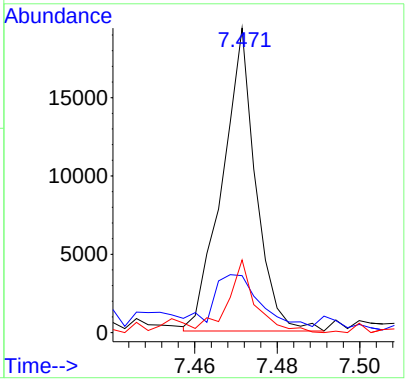


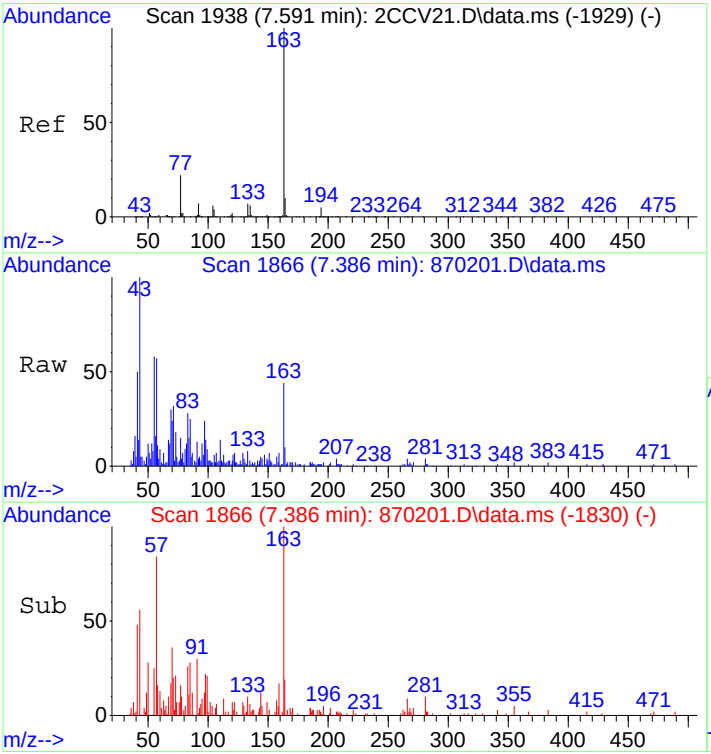


#47
Acnaphthylene
Concen: 0.09 ug/mL
RT: 7.471 min Scan# 1896
Delta R.T. -0.008 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:152 Resp: 10910

Ion	Ratio	Lower	Upper
152	100		
151	14.1	0.0	49.5
153	24.0	0.0	43.0

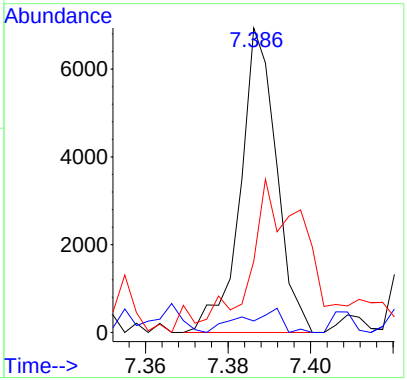


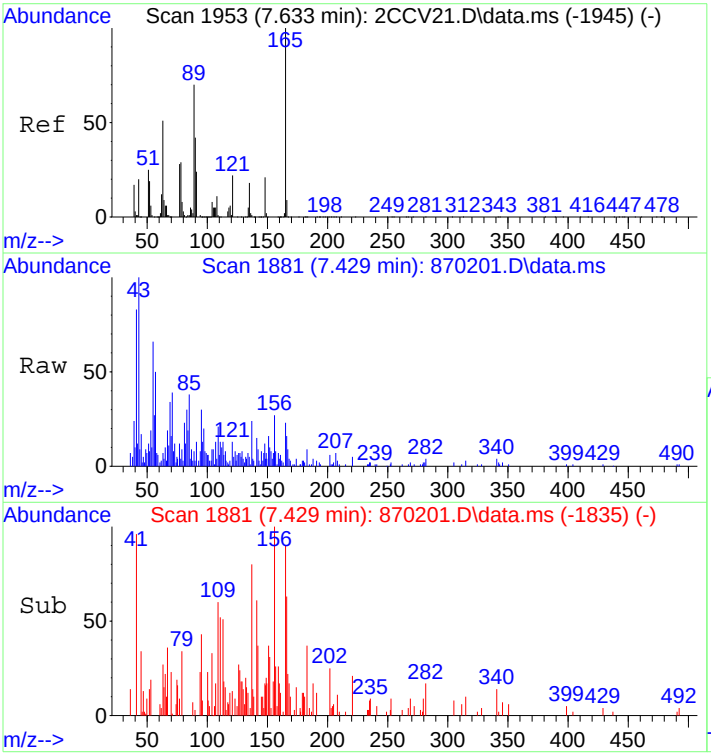


#48
Dimethylphtha
Concen: 0.05 ug/mL
RT: 7.386 min Scan# 1866
Delta R.T. -0.014 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:163 Resp: 4196

Ion	Ratio	Lower	Upper
163	100		
194	3.8	0.0	34.0
164	14.9	0.0	40.3

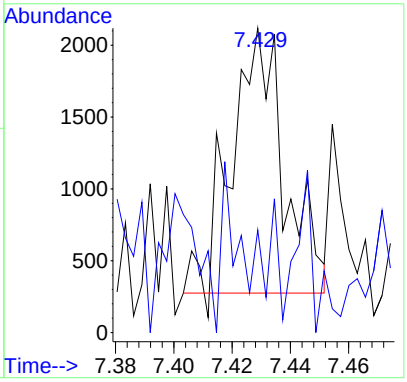


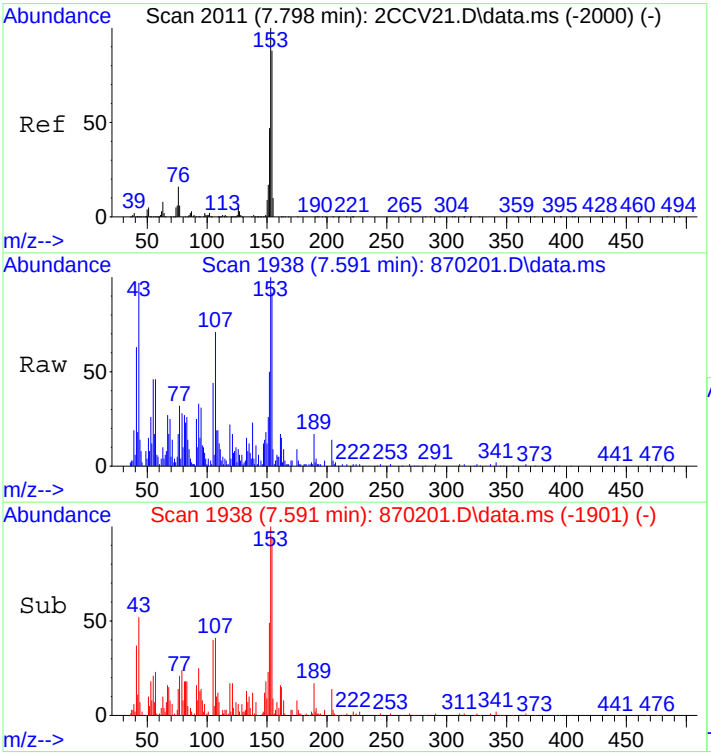


#49
26Dinitrotolu
Concen: 0.13 ug/mL
RT: 7.429 min Scan# 1881
Delta R.T. -0.014 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:165 Resp: 2325

Ion	Ratio	Lower	Upper
165	100		
89	15.5	20.8	80.8#

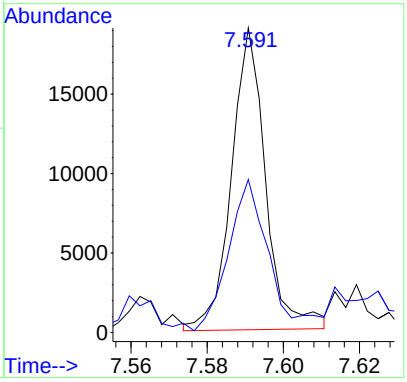


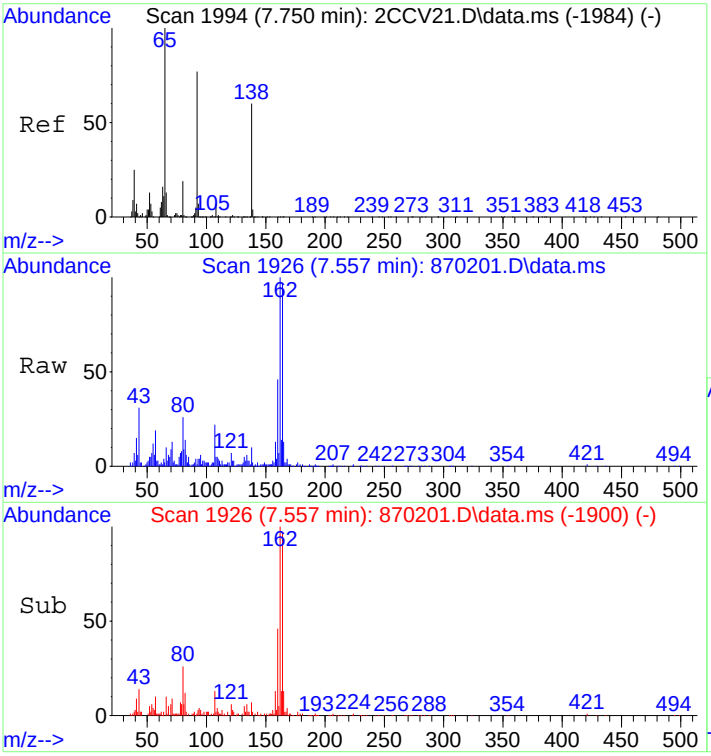


#50
Acenaphthene
Concen: 0.15 ug/mL
RT: 7.591 min Scan# 1938
Delta R.T. -0.011 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:153 Resp: 11860

Ion	Ratio	Lower	Upper
153	100		
152	48.4	15.5	75.5

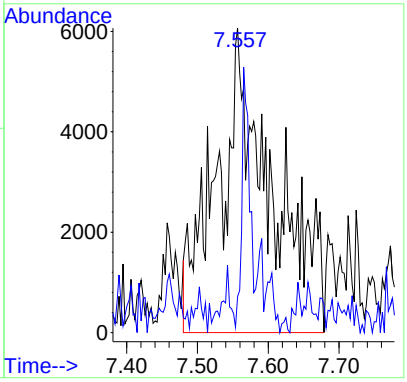


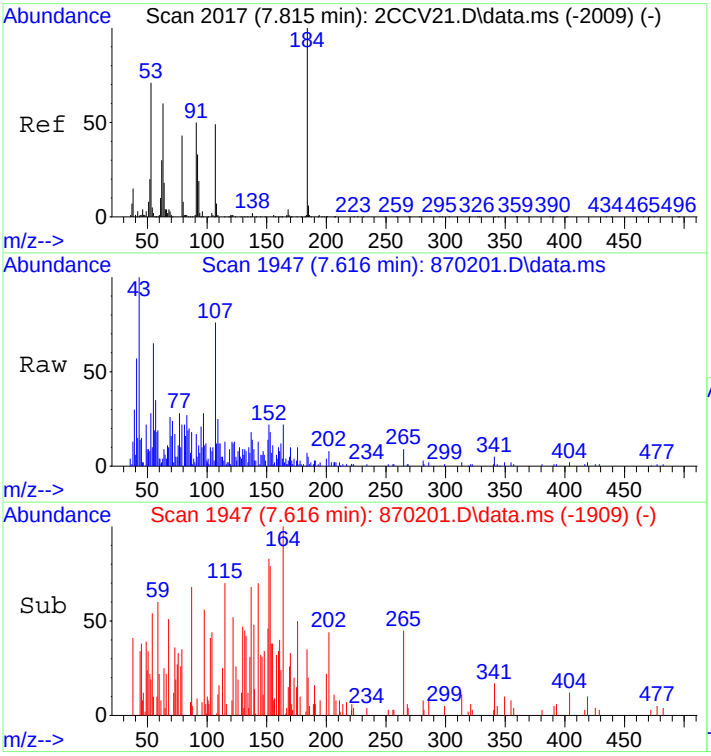


#51
3Nitroaniline
Concen: 1.67 ug/mL
RT: 7.557 min Scan# 1926
Delta R.T. 0.000 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:138 Resp: 32357

Ion	Ratio	Lower	Upper
138	100		
92	7.0	74.6	134.6#

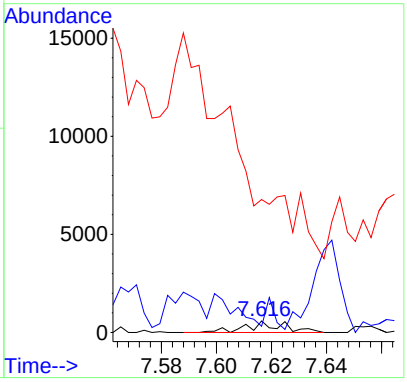


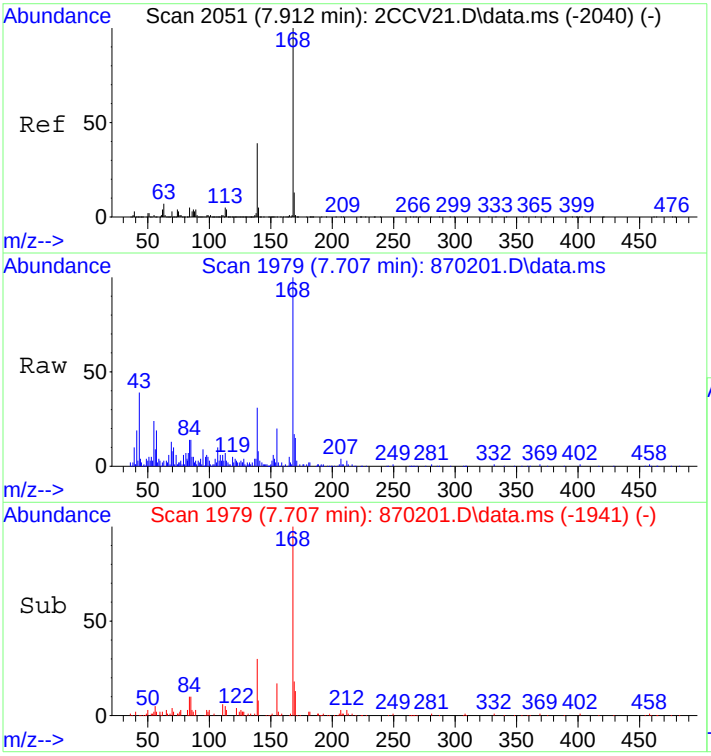


#52
24Dinitphenol
Concen: 2.42 ug/mL
RT: 7.616 min Scan# 1947
Delta R.T. -0.008 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:184 Resp: 535

Ion	Ratio	Lower	Upper
184	100		
63	30.8	44.6	104.6#
107	660.3	13.0	73.0#

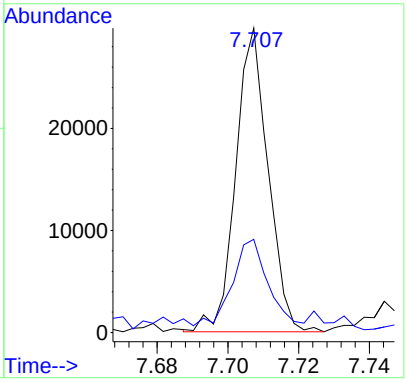


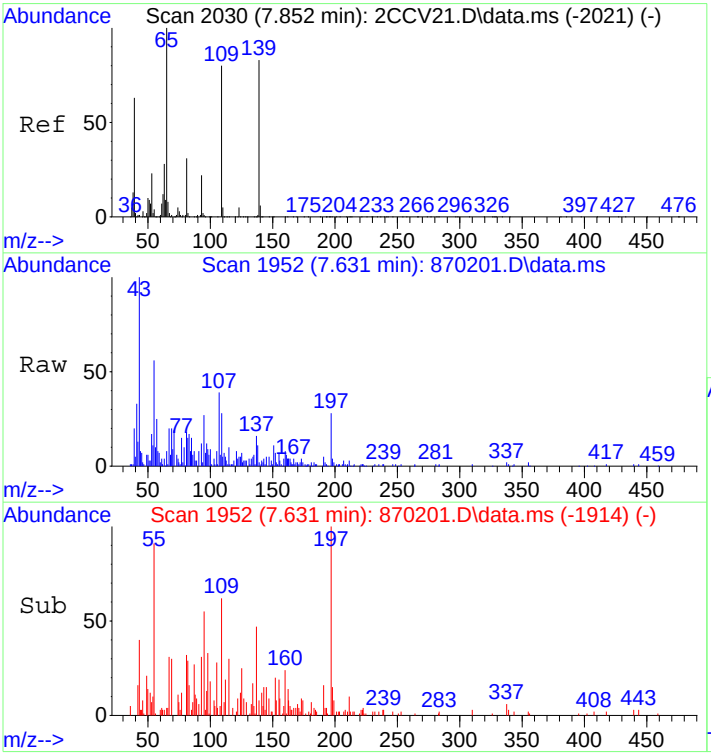


#53
Dibenzofuran
Concen: 0.19 ug/mL
RT: 7.707 min Scan# 1979
Delta R.T. -0.008 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:168 Resp: 18919

Ion	Ratio	Lower	Upper
168	100		
139	27.5	7.1	67.1

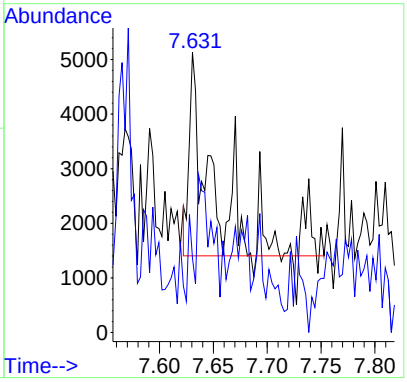


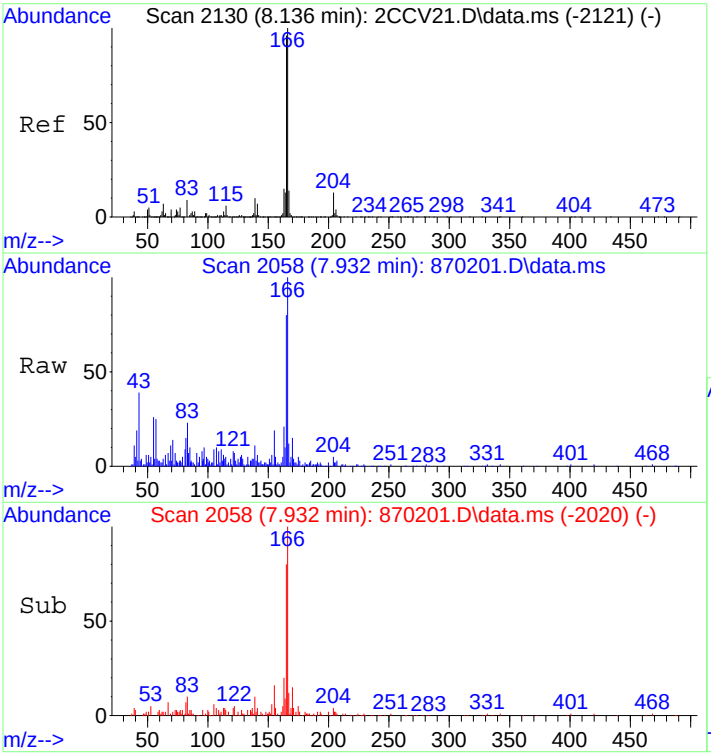


#55
4-Nitrophenol
Concen: 0.89 ug/mL
RT: 7.631 min Scan# 1952
Delta R.T. -0.037 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:109 Resp: 5526

Ion	Ratio	Lower	Upper
109	100		
65	13.7	123.5	183.5#

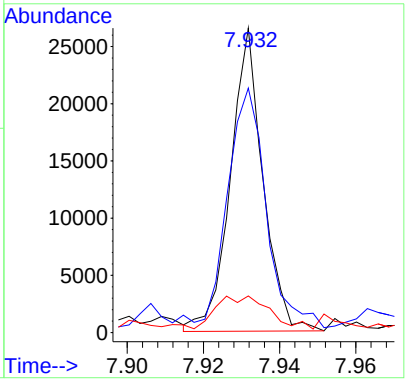


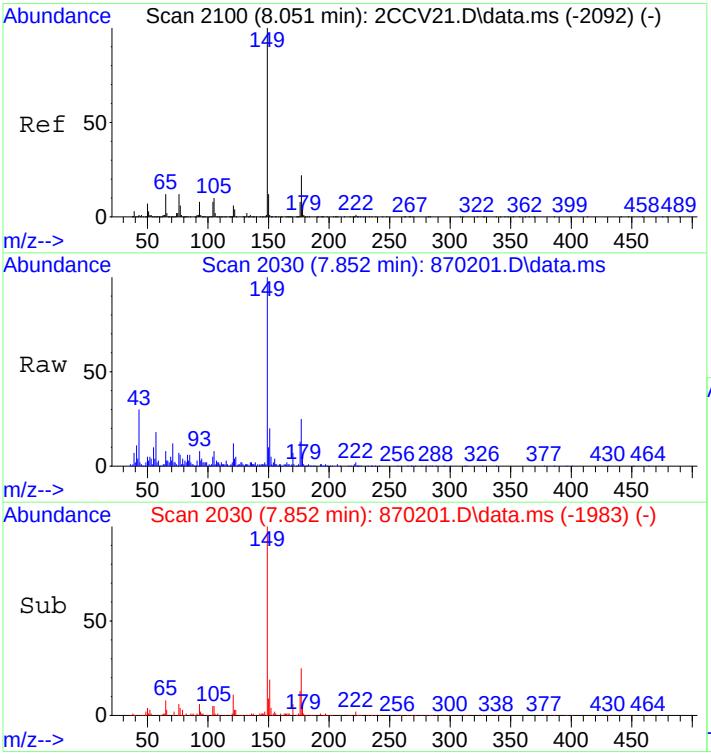


#58
Fluorene
Concen: 0.19 ug/mL
RT: 7.932 min Scan# 2058
Delta R.T. -0.008 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:166 Resp: 15708

Ion	Ratio	Lower	Upper
166	100		
165	79.1	64.5	124.5
167	9.6	0.0	42.6

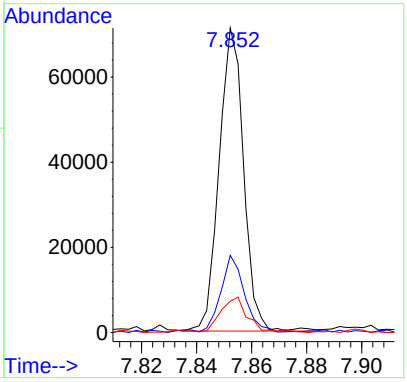


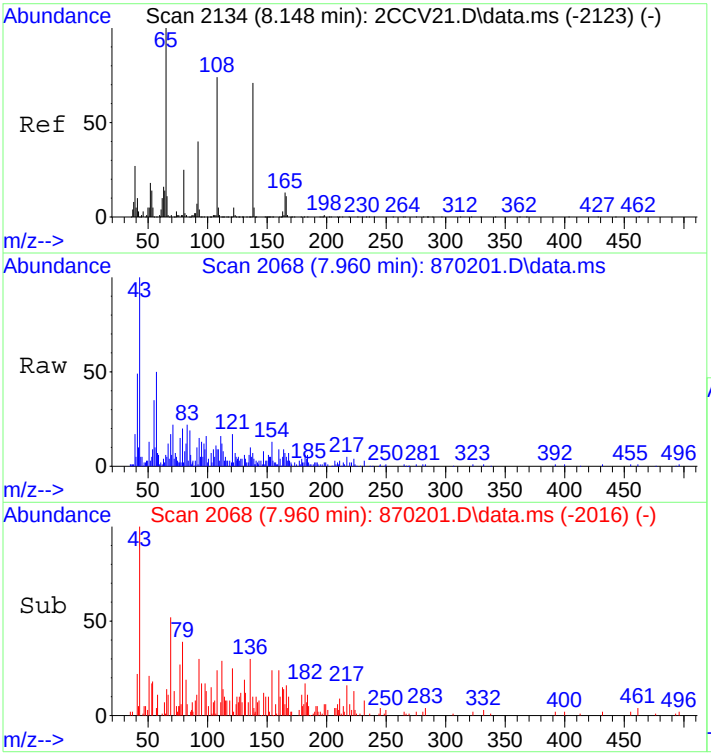


#60
Diethylphthal
Concen: 0.52 ug/mL
RT: 7.852 min Scan# 2030
Delta R.T. -0.011 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:149 Resp: 44074

Ion	Ratio	Lower	Upper
149	100		
177	24.6	0.0	52.2
150	10.1	0.0	42.5

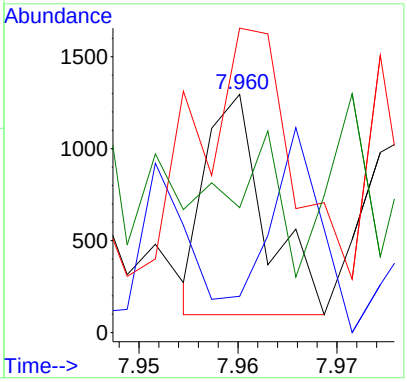


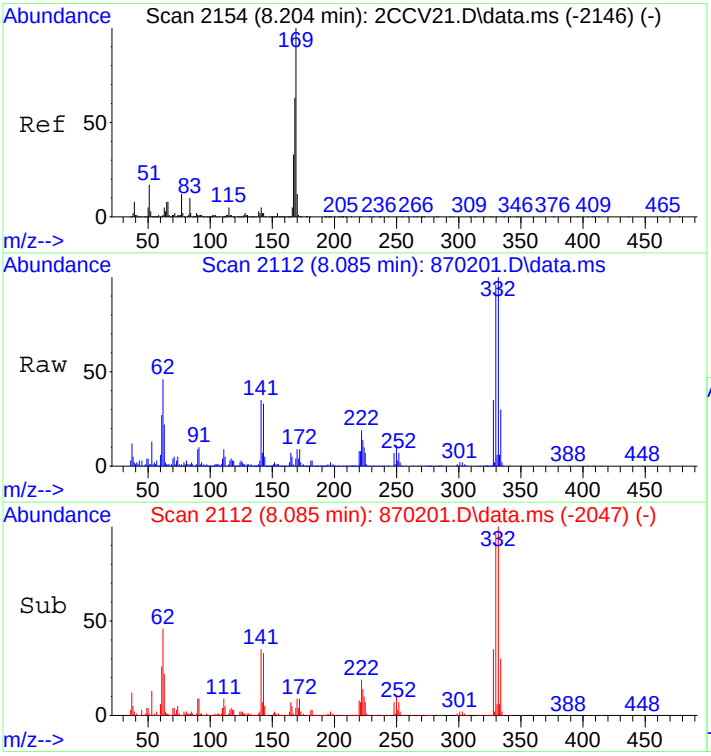


#61
4Nitroaniline
Concen: 0.03 ug/mL
RT: 7.960 min Scan# 2068
Delta R.T. 0.003 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:138 Resp: 503

Ion	Ratio	Lower	Upper
138	100		
92	0.0	19.9	79.9#
108	79.2	39.4	99.4
139	8.3	0.0	41.3

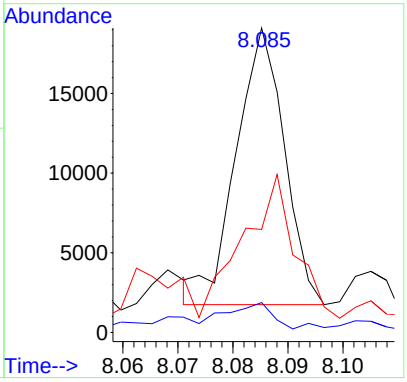


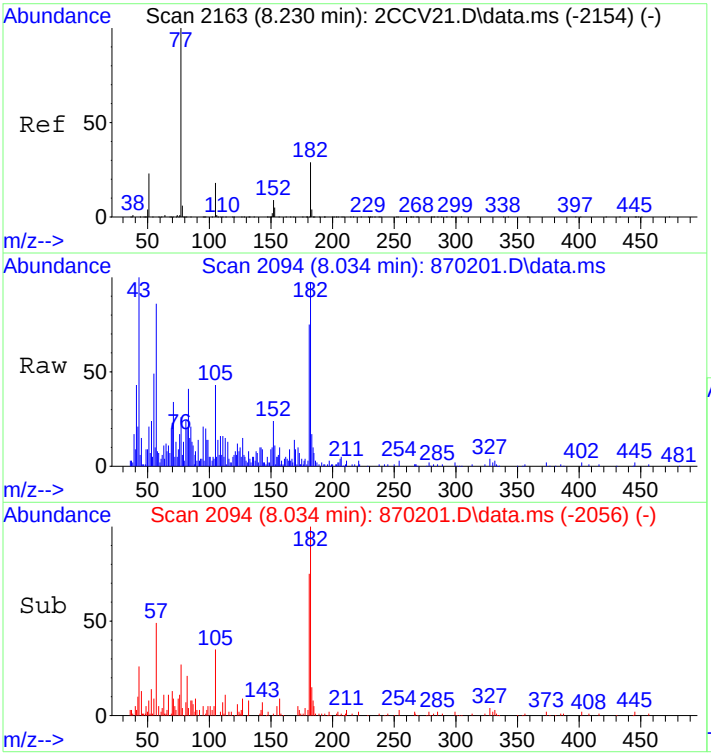


#65
Ntrsdiphlam&Diphlam
Concen: 0.19 ug/mL
RT: 8.085 min Scan# 2112
Delta R.T. 0.068 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:169 Resp: 10594

Ion	Ratio	Lower	Upper
169	100		
168	9.0	34.8	94.8#
167	28.0	4.6	64.6

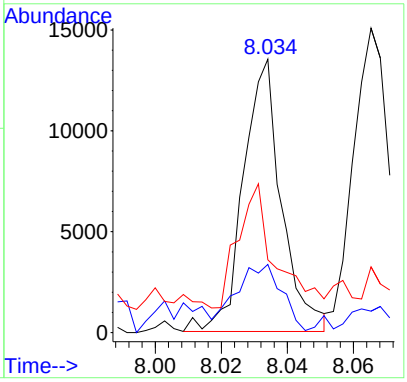


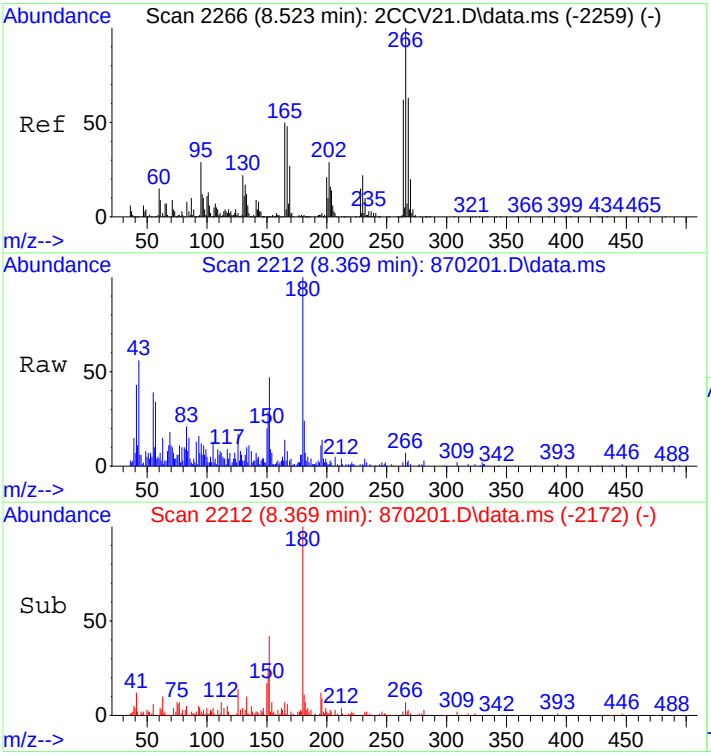


#66
Azobenz&12Diphlhyd
Concen: 0.52 ug/mL
RT: 8.034 min Scan# 2094
Delta R.T. -0.008 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:182 Resp: 10881

Ion	Ratio	Lower	Upper
182	100		
152	18.8	3.5	63.5
77	14.3	348.6	408.6#

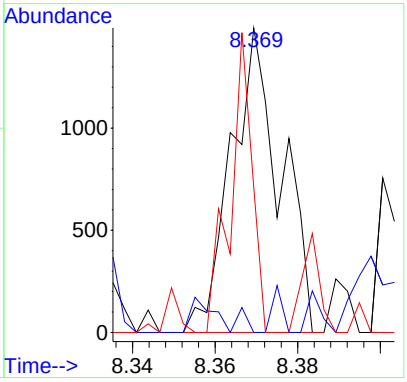


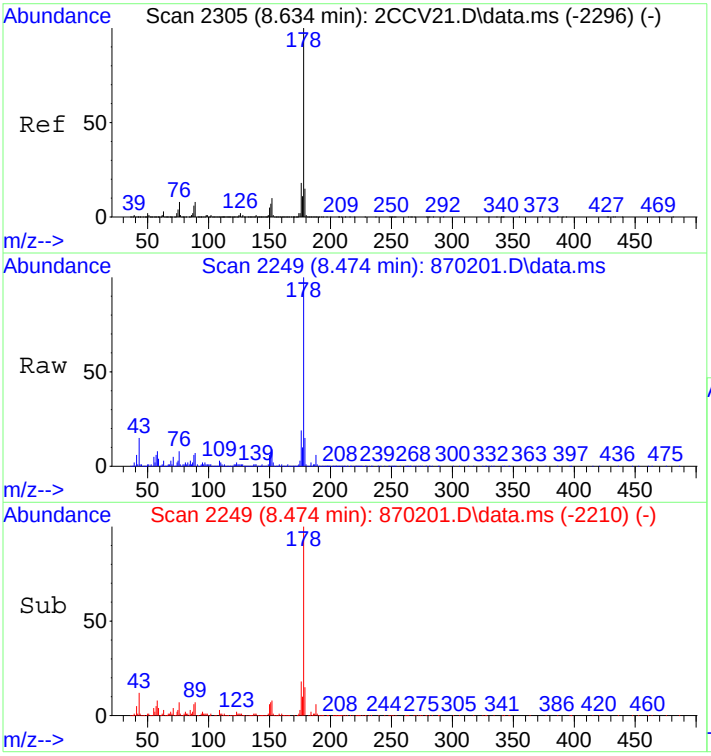


#69
Pentaclphenol
Concen: 2.53 ug/mL
RT: 8.369 min Scan# 2212
Delta R.T. -0.003 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:266 Resp: 1244

Ion	Ratio	Lower	Upper
266	100		
264	0.0	29.5	89.5#
268	44.9	31.7	91.7

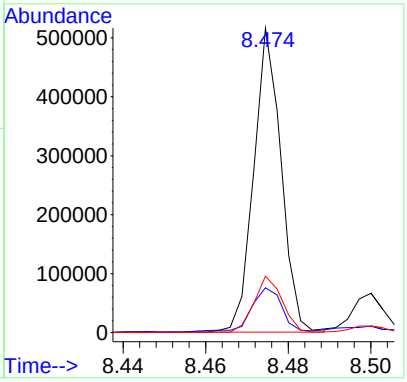


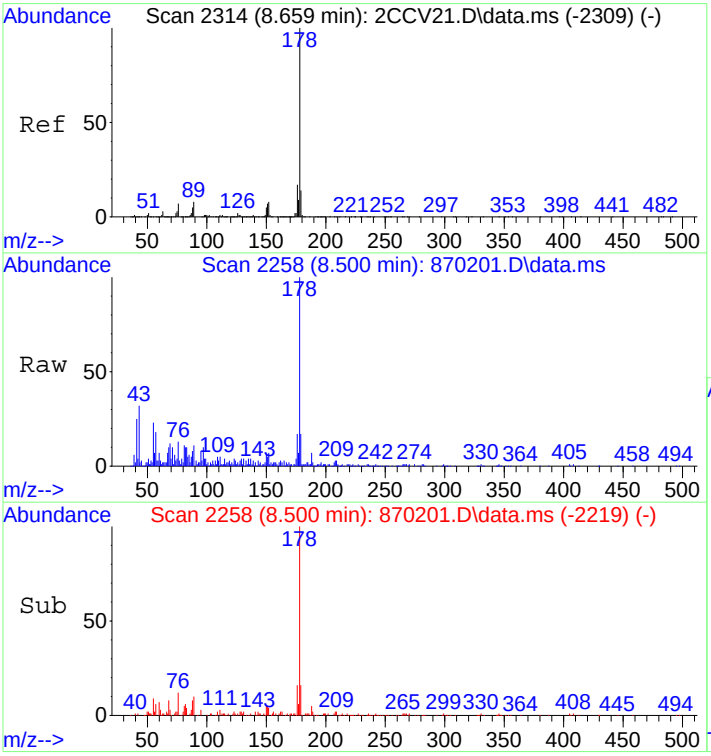


#70
Phenanthrene
Concen: 2.42 ug/mL
RT: 8.474 min Scan# 2249
Delta R.T. -0.006 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:178 Resp: 237631

Ion	Ratio	Lower	Upper
178	100		
179	14.5	0.0	44.4
176	18.5	0.0	48.0

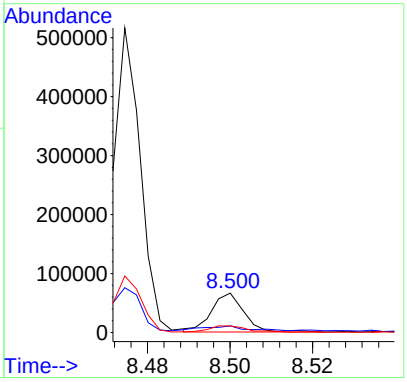


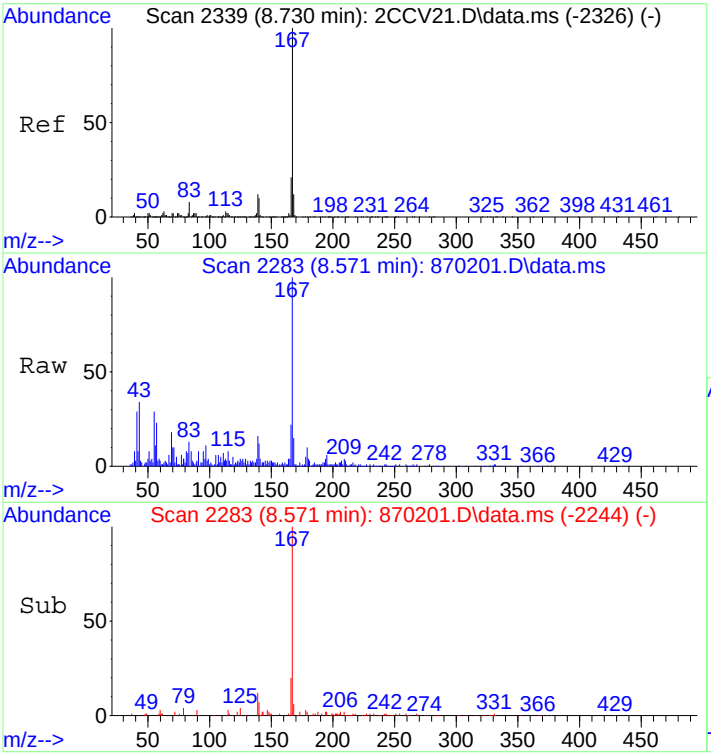


#71
Anthracene
Concen: 0.36 ug/mL
RT: 8.500 min Scan# 2258
Delta R.T. -0.006 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:178 Resp: 35955

Ion	Ratio	Lower	Upper
178	100		
179	12.5	0.0	45.0
176	16.4	0.0	48.4

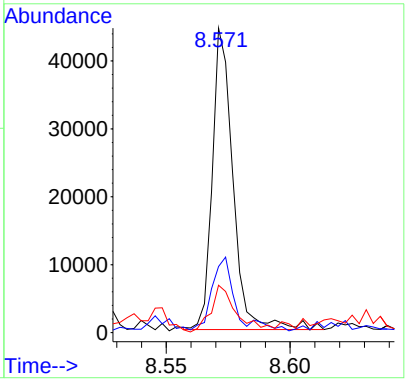


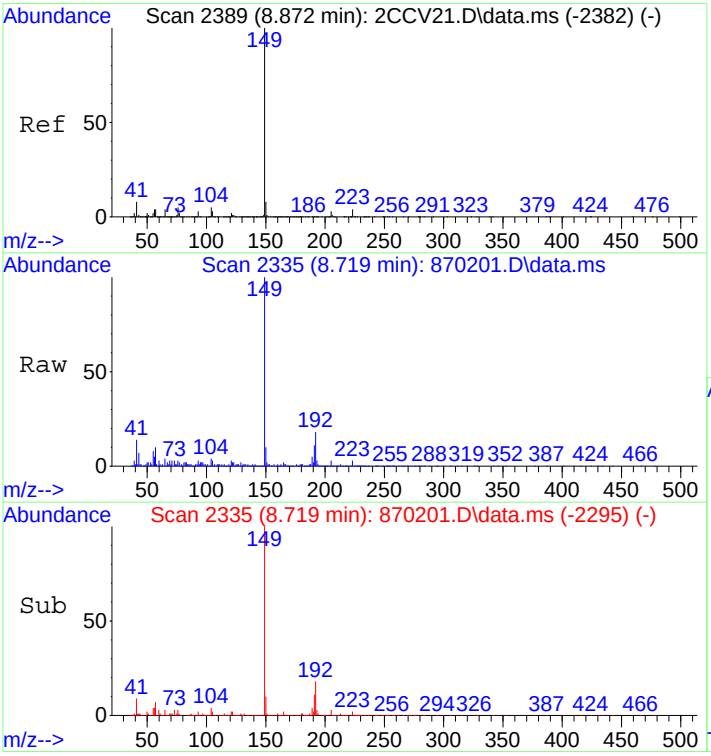


#72
Carbazole
Concen: 0.31 ug/mL
RT: 8.571 min Scan# 2283
Delta R.T. -0.006 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:167 Resp: 25875

Ion	Ratio	Lower	Upper
167	100		
166	20.2	0.0	50.6
139	13.9	0.0	43.0

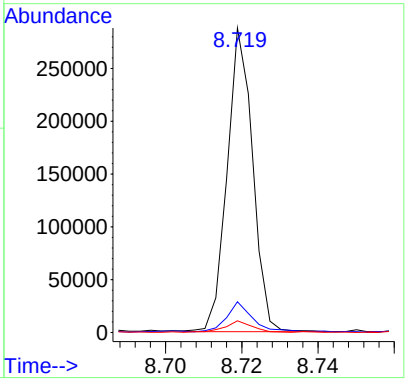


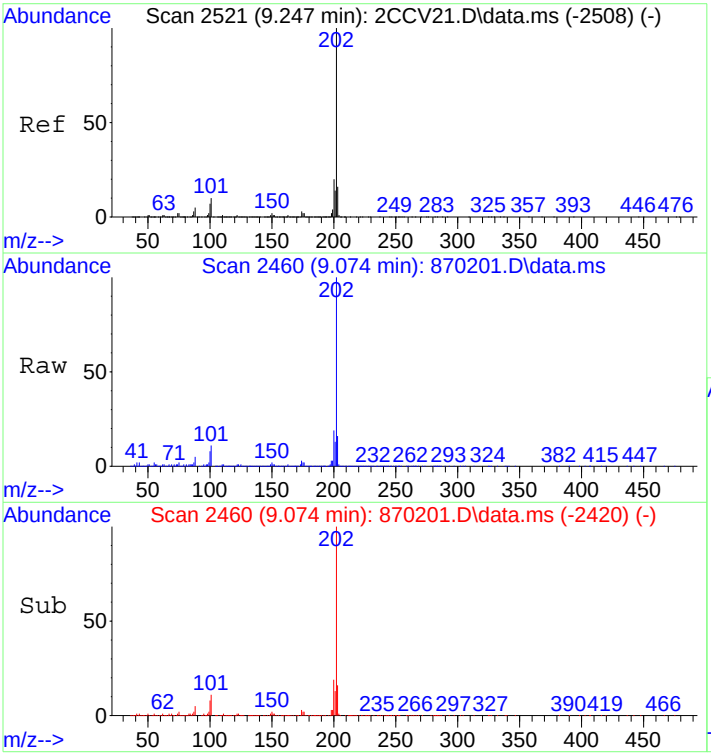


#73
Dinbtylphthal
Concen: 1.18 ug/mL
RT: 8.719 min Scan# 2335
Delta R.T. -0.003 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:149 Resp: 133879

Ion	Ratio	Lower	Upper
149	100		
150	9.7	0.0	38.5
104	3.8	0.0	34.3

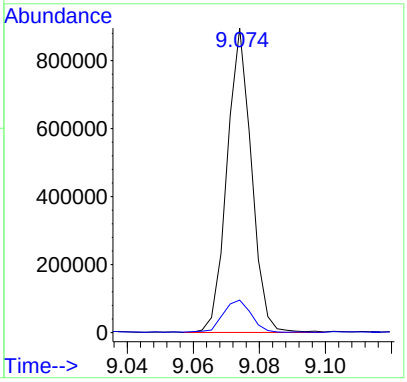


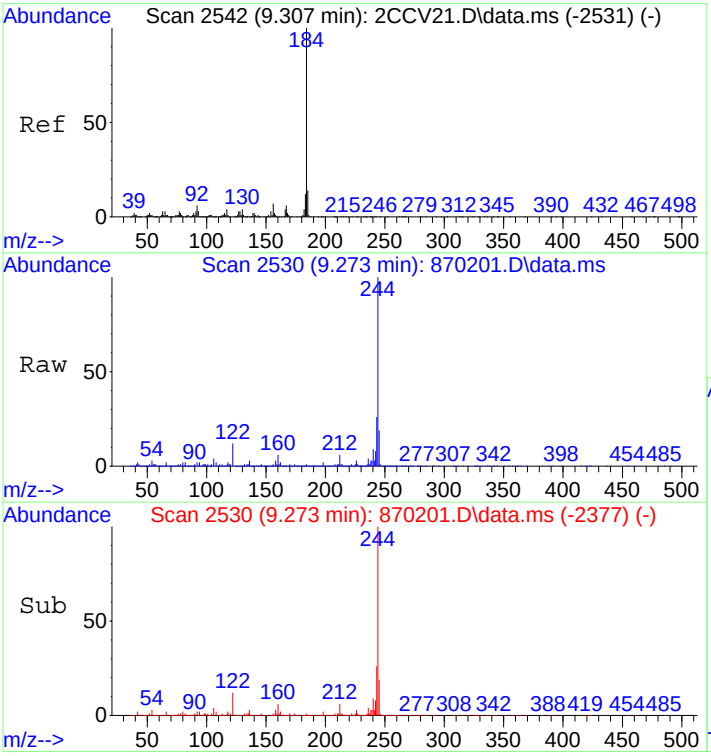


#74
Fluoranthene
Concen: 4.64 ug/mL
RT: 9.074 min Scan# 2460
Delta R.T. -0.003 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:202 Resp: 459443

Ion	Ratio	Lower	Upper
202	100		
101	10.6	0.0	41.2

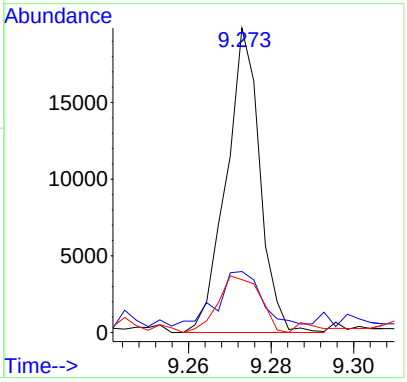


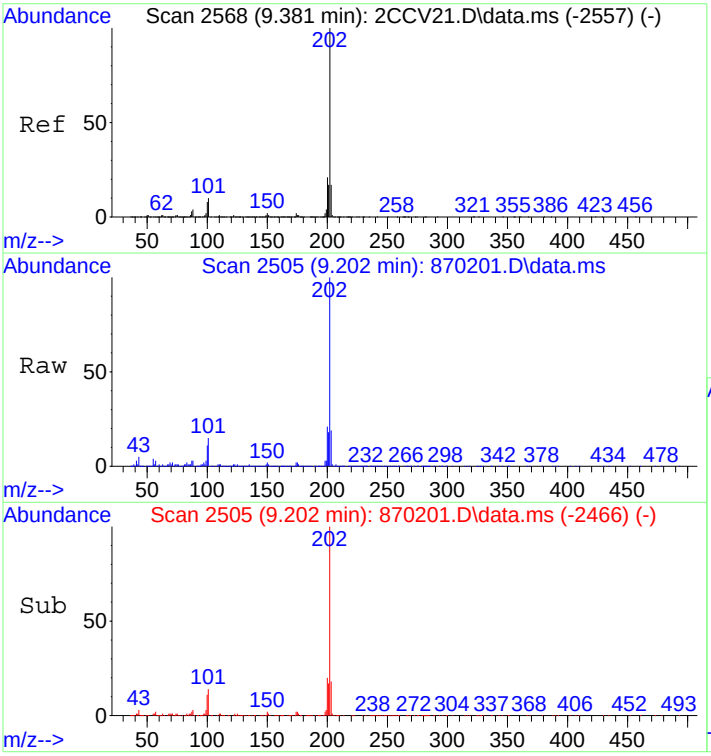


#76
Benzidine
Concen: Below ug/mL
RT: 9.273 min Scan# 2530
Delta R.T. 0.134 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:184 Resp: 11192

Ion	Ratio	Lower	Upper
184	100		
185	16.3	0.0	43.8
183	17.3	0.0	41.8

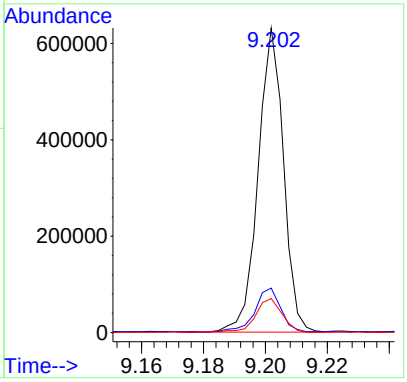


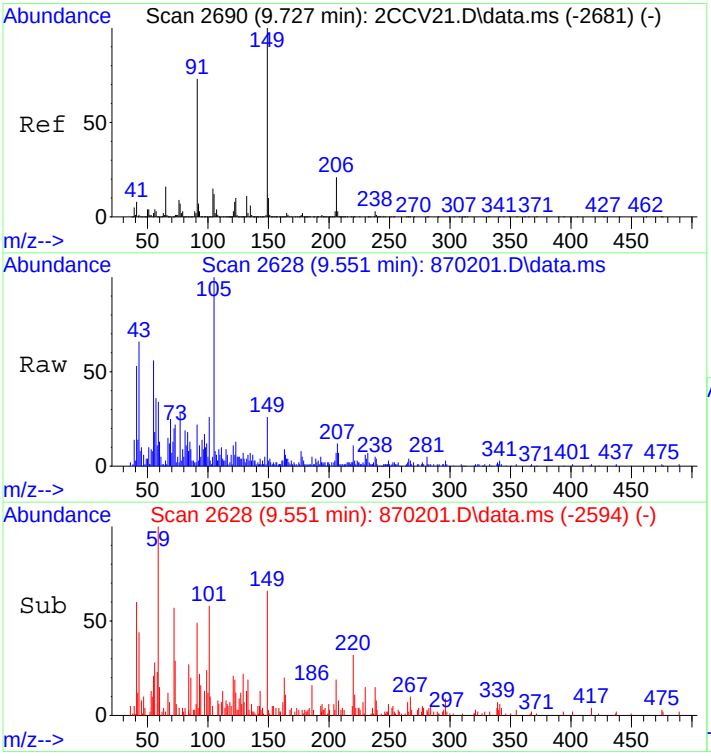


#77
Pyrene
Concen: 3.52 ug/mL
RT: 9.202 min Scan# 2505
Delta R.T. -0.006 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:202 Resp: 359842

Ion	Ratio	Lower	Upper
202	100		
101	14.4	0.0	44.0
100	11.1	0.0	42.2

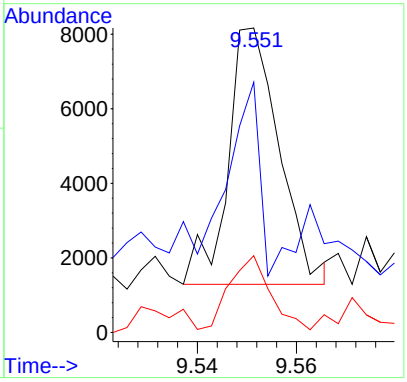


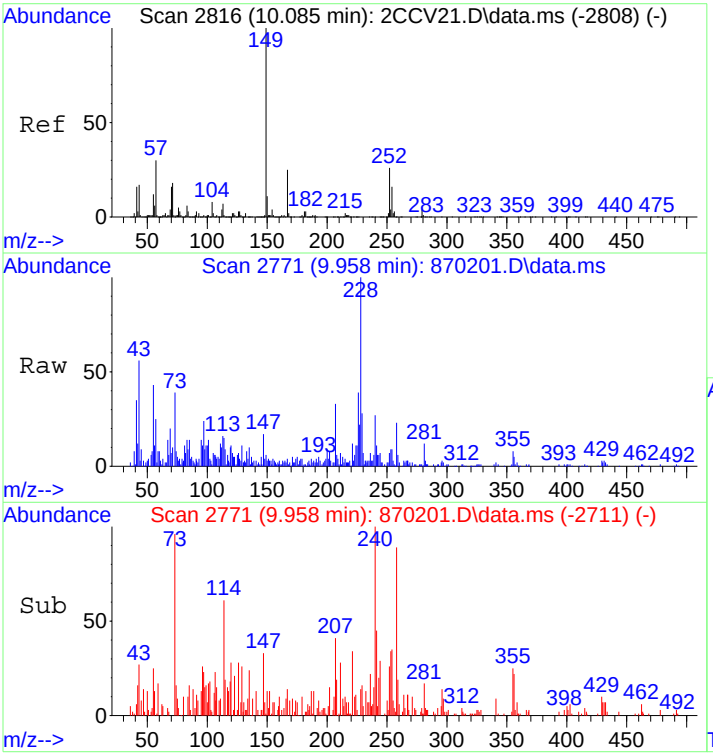


#79
Btylbzylphth
Concen: 0.10 ug/mL
RT: 9.551 min Scan# 2628
Delta R.T. -0.003 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:149 Resp: 4962

Ion	Ratio	Lower	Upper
149	100		
91	63.0	40.5	100.5
206	23.0	0.0	48.9

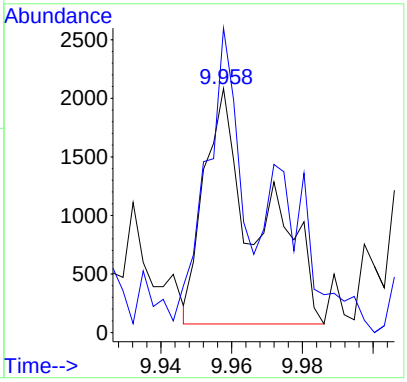


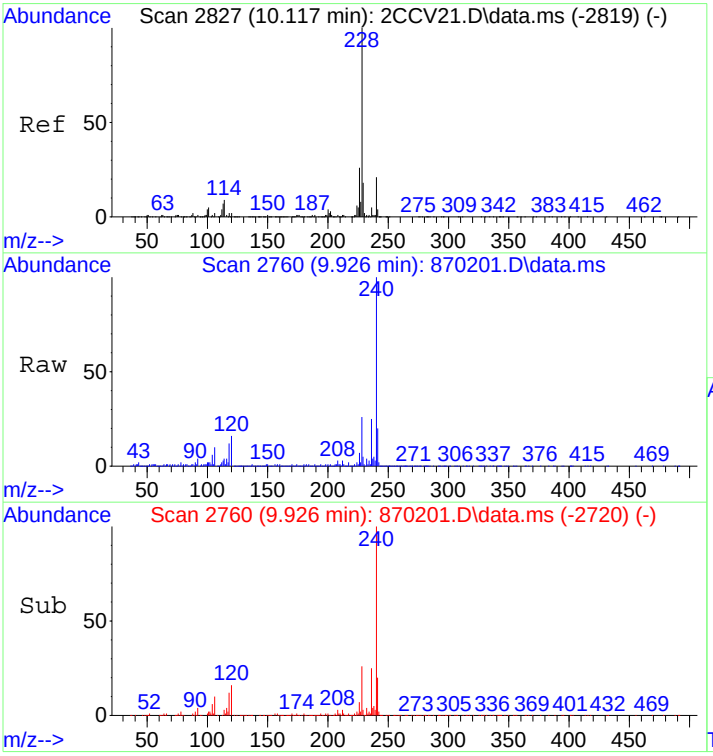


#80
33Diclbnzidin
Concen: Below ug/mL
RT: 9.958 min Scan# 2771
Delta R.T. 0.054 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:252 Resp: 2168

Ion	Ratio	Lower	Upper
252	100		
254	113.2	31.7	91.7#

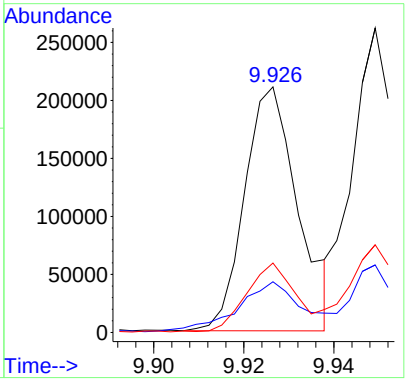


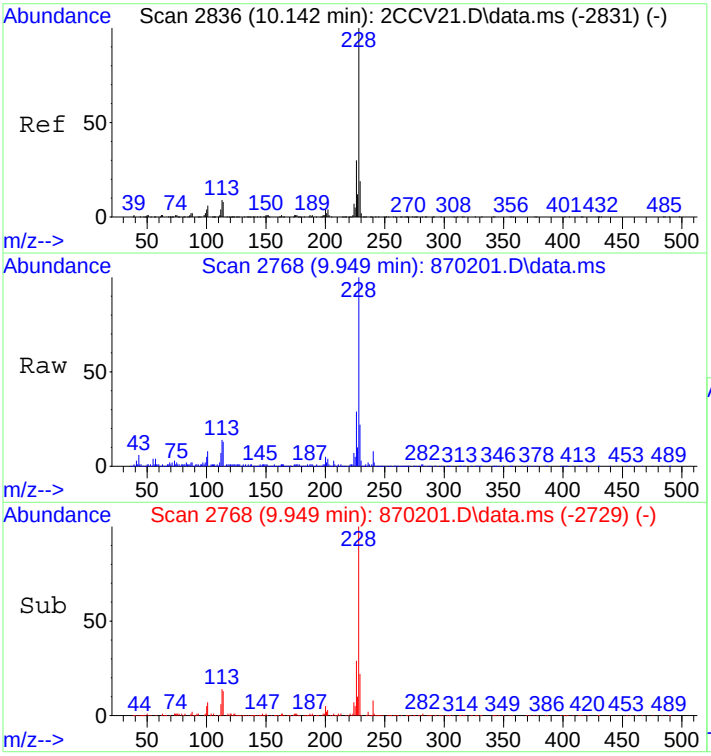


#81
B[a]anthracen
Concen: 1.82 ug/mL
RT: 9.926 min Scan# 2760
Delta R.T. -0.003 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:228 Resp: 172887

Ion	Ratio	Lower	Upper
228	100		
229	19.0	0.0	48.8
226	27.8	0.0	56.6

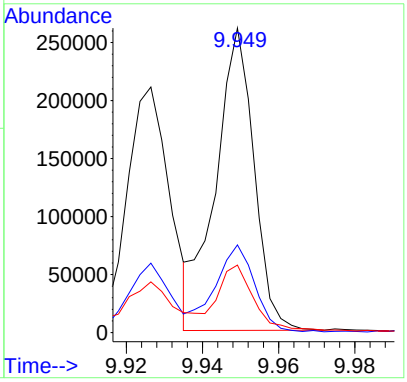


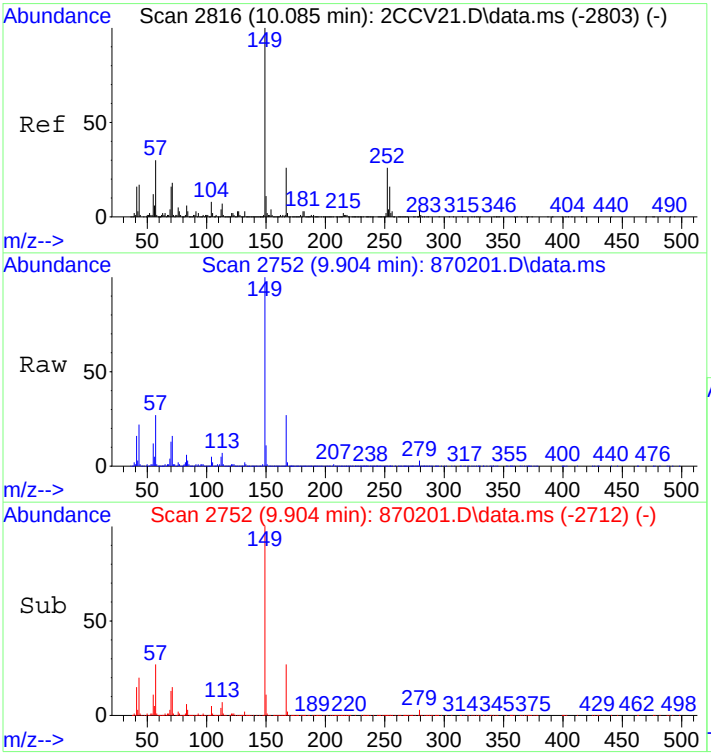


#82
Chrysene
Concen: 2.00 ug/mL
RT: 9.949 min Scan# 2768
Delta R.T. -0.006 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:228 Resp: 182668

Ion	Ratio	Lower	Upper
228	100		
226	28.8	0.0	58.6
229	21.6	0.0	49.6

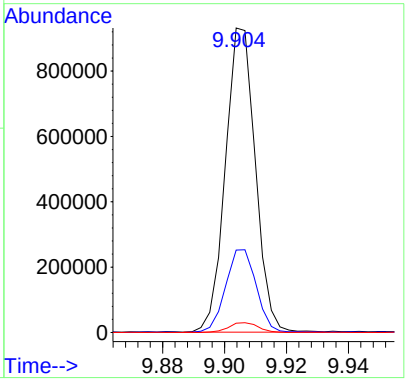


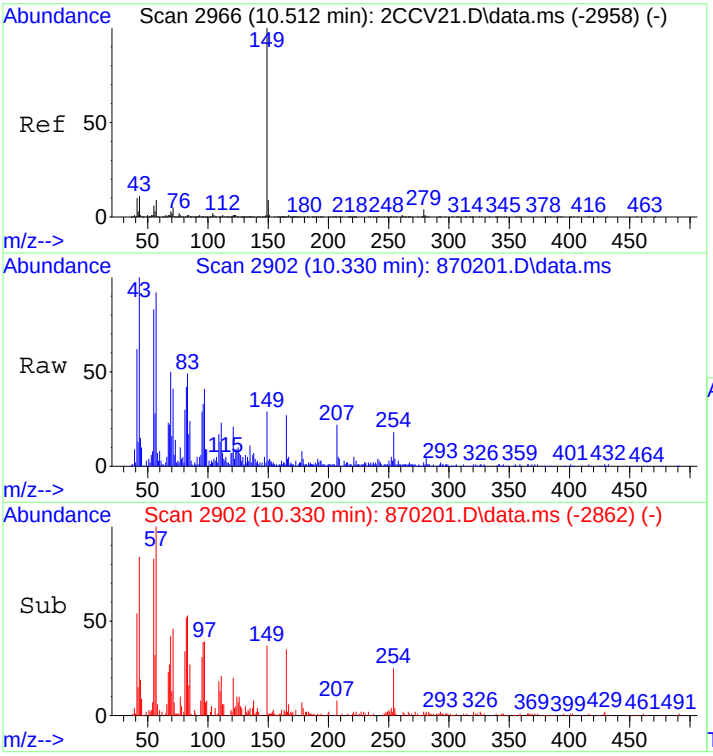


#83
bis2Ethlhxlph
Concen: 8.69 ug/mL
RT: 9.904 min Scan# 2752
Delta R.T. -0.003 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:149 Resp: 626986

Ion	Ratio	Lower	Upper
149	100		
167	27.1	0.0	56.9
279	3.0	0.0	33.6

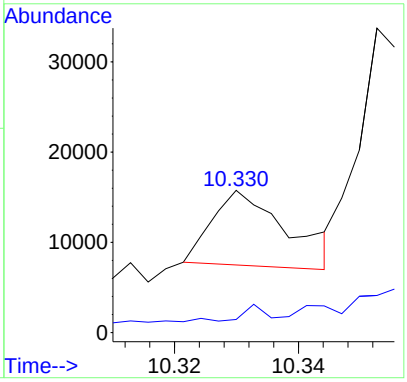


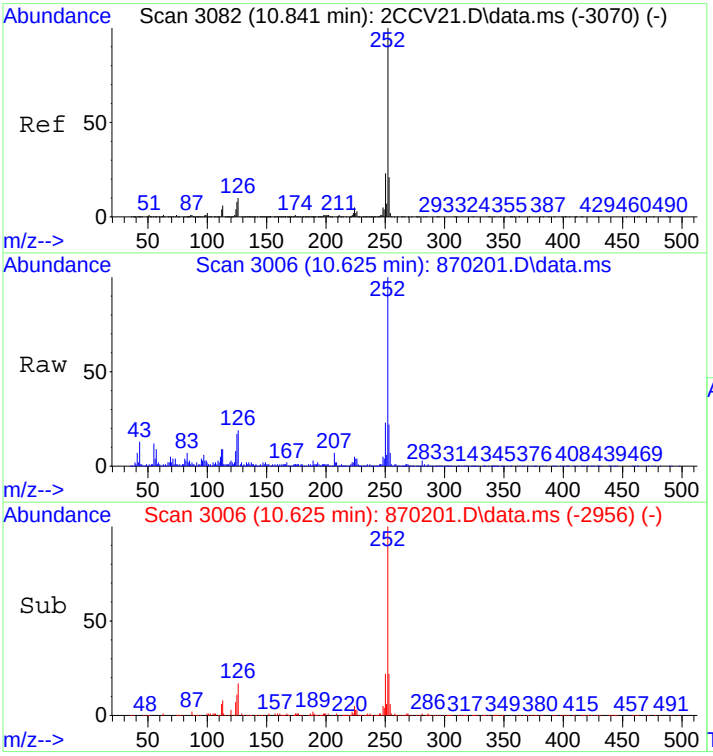


#84
Dinoctylphthl
Concen: 0.05 ug/mL
RT: 10.330 min Scan# 2902
Delta R.T. -0.003 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:149 Resp: 6886

Ion	Ratio	Lower	Upper
149	100		
150	3.2	0.0	39.0

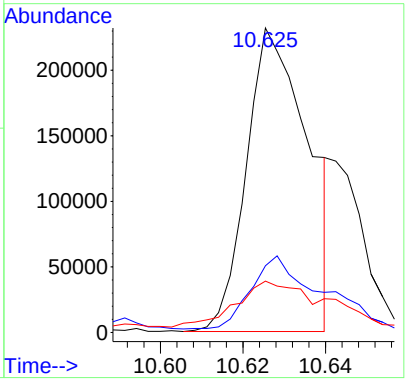


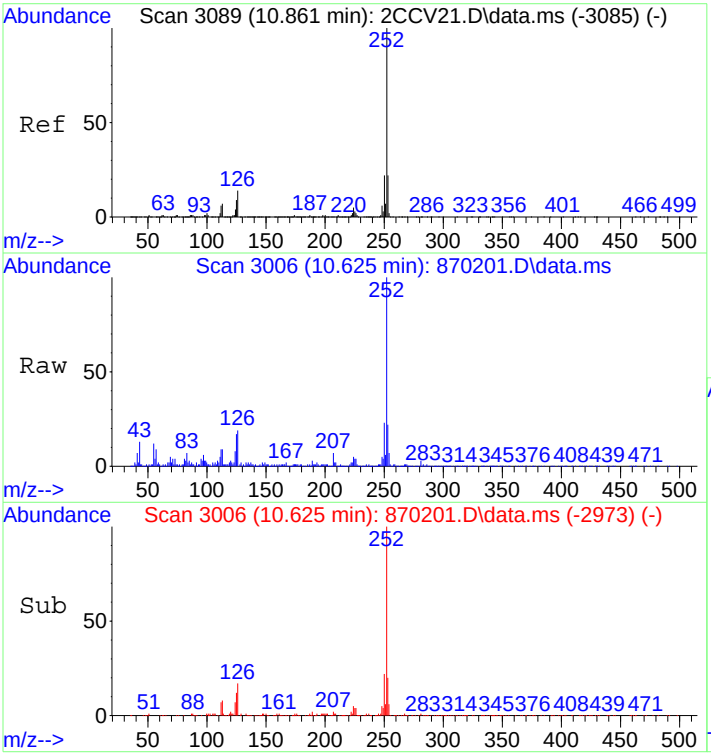


#86
B[b]fluoranth
Concen: 2.91 ug/mL
RT: 10.625 min Scan# 3006
Delta R.T. -0.003 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:252 Resp: 239192

Ion	Ratio	Lower	Upper
252	100		
253	20.8	0.0	50.8
125	13.8	0.0	41.9

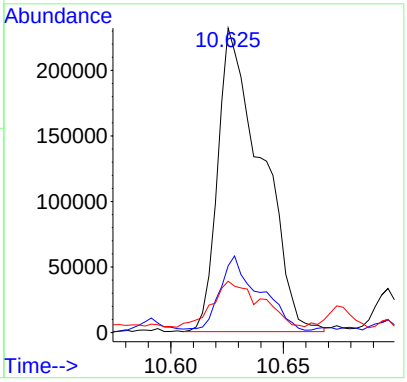


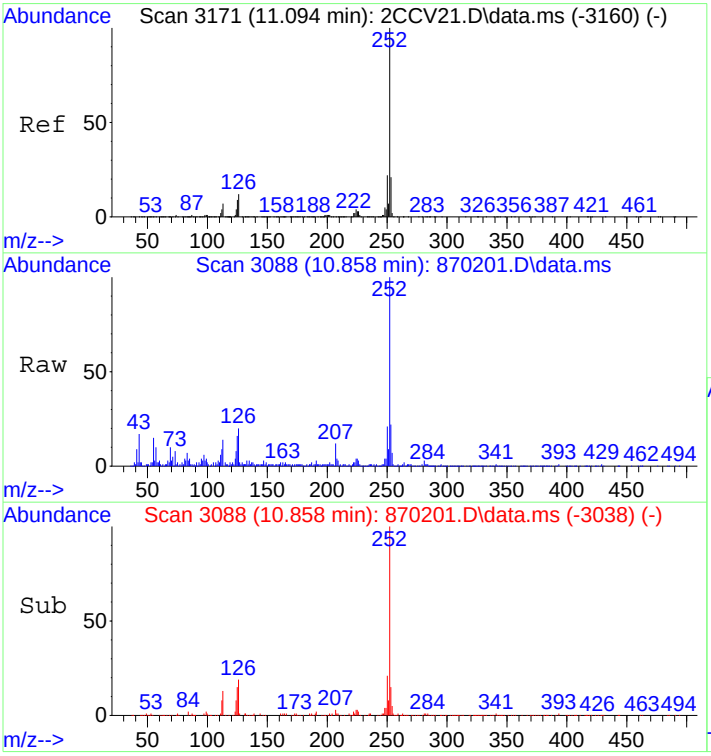


#87
B[k]fluoranth
Concen: 4.05 ug/mL
RT: 10.625 min Scan# 3006
Delta R.T. -0.023 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:252 Resp: 313742

Ion	Ratio	Lower	Upper
252	100		
253	20.8	0.0	50.8
125	13.8	0.0	41.3

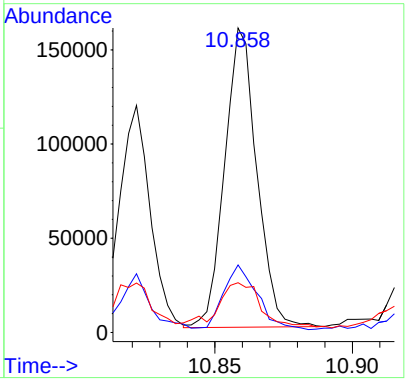


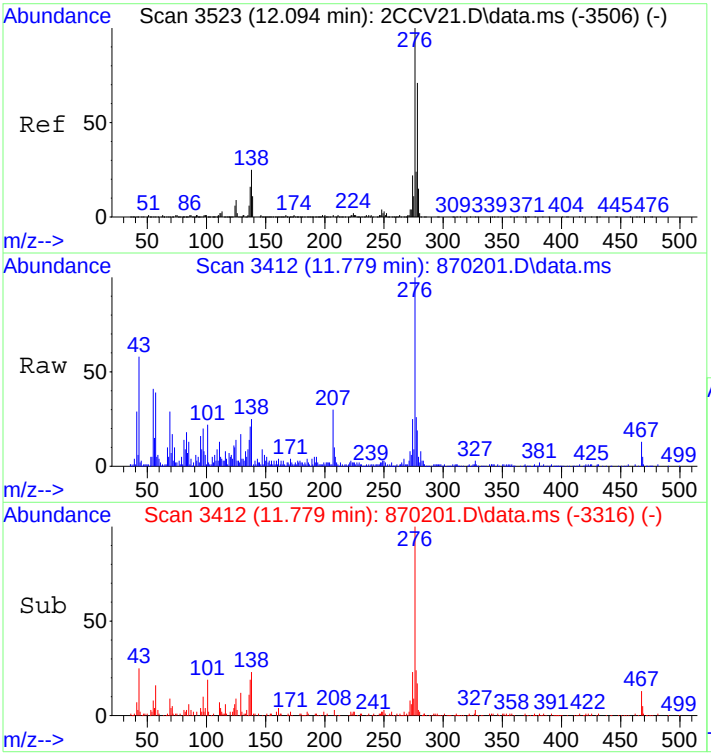


#88
Benz[a]pyrene
Concen: 1.72 ug/mL
RT: 10.858 min Scan# 3088
Delta R.T. -0.003 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:252 Resp: 128885

Ion	Ratio	Lower	Upper
252	100		
253	21.2	0.0	50.4
125	14.6	0.0	43.2

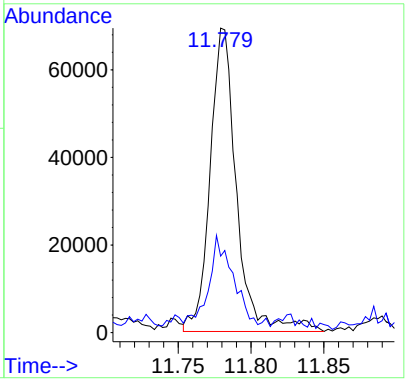


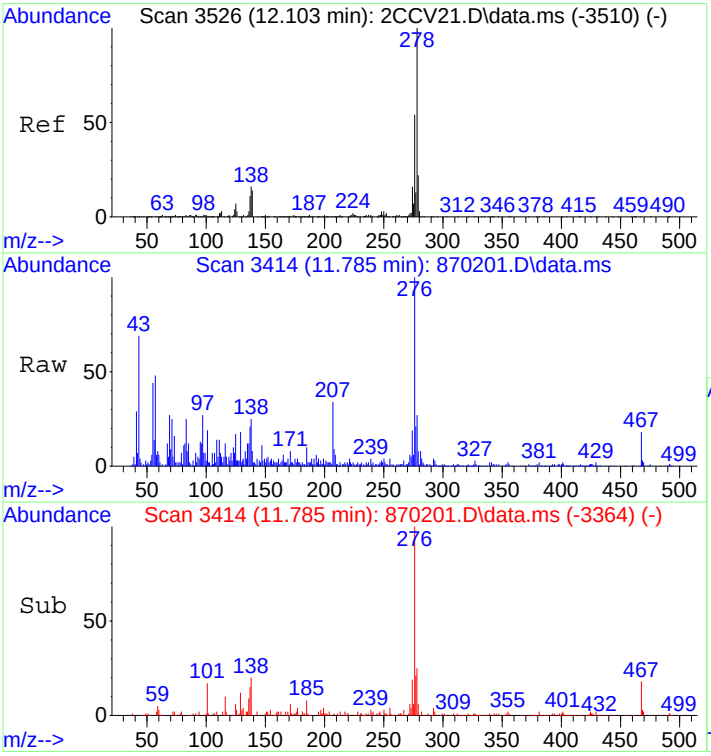


#89
Indeno-pyrene
Concen: 1.15 ug/mL
RT: 11.779 min Scan# 3412
Delta R.T. -0.006 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:276 Resp: 87634

Ion	Ratio	Lower	Upper
276	100		
138	22.6	2.2	62.2

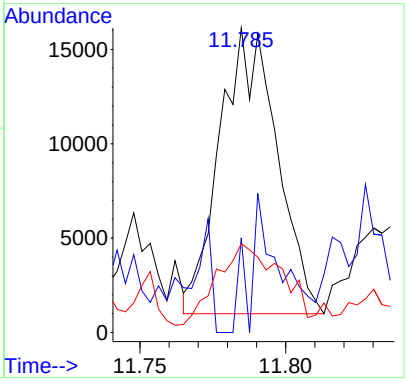


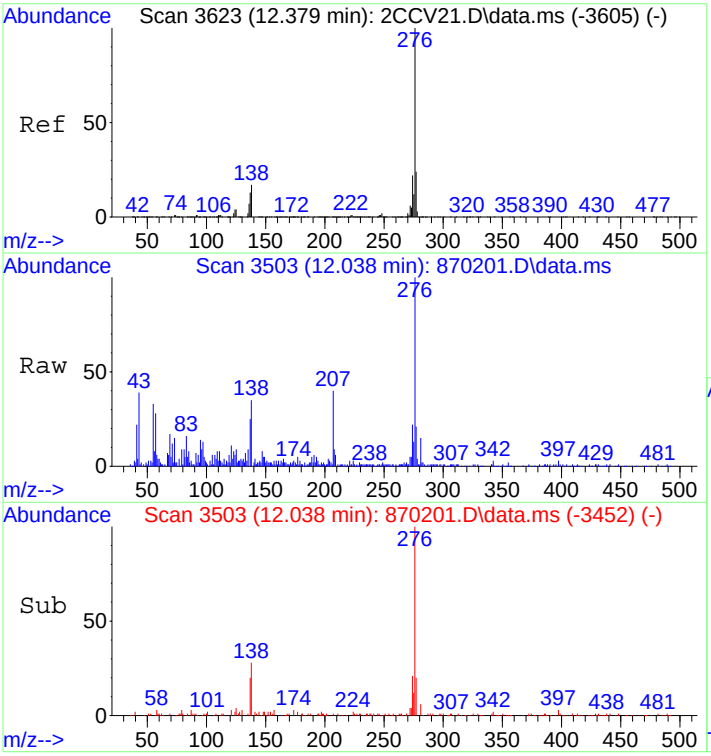


#90
Dib[ah]anthr
Concen: 0.33 ug/mL
RT: 11.785 min Scan# 3414
Delta R.T. -0.008 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:278 Resp: 20623

Ion	Ratio	Lower	Upper
278	100		
139	17.5	0.0	50.7
279	28.3	0.0	54.3

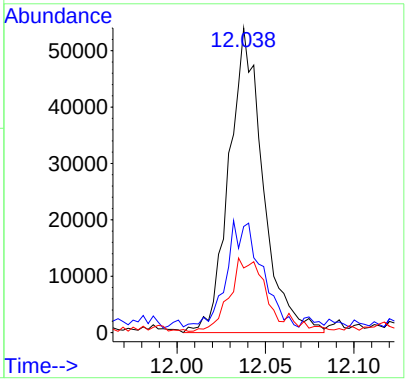


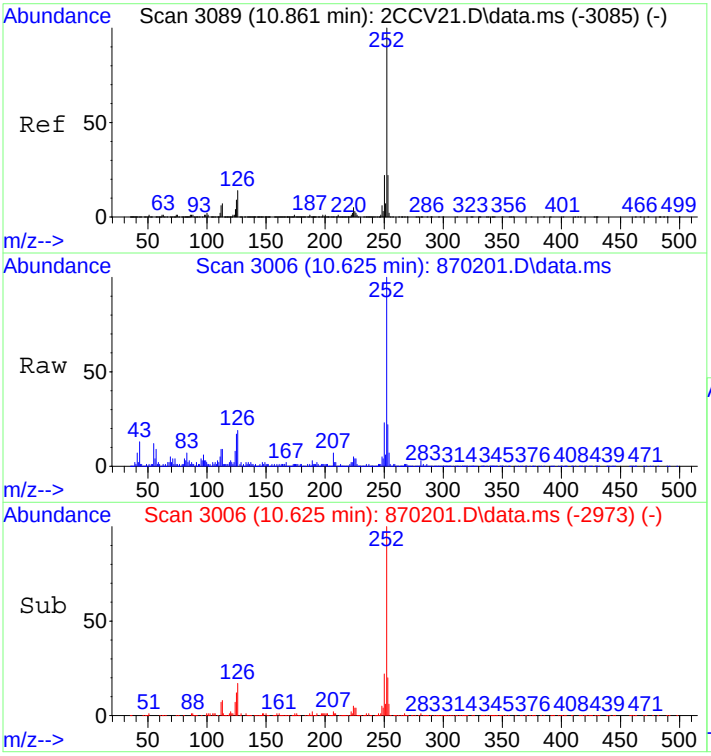


#91
B[ghi]perylen
Concen: 1.14 ug/mL
RT: 12.038 min Scan# 3503
Delta R.T. -0.006 min
Lab File: 870201.D
Acq: 2 Dec 10 7:45 pm

Tgt Ion:276 Resp: 72052

Ion	Ratio	Lower	Upper
276	100		
138	32.9	0.0	57.5
277	20.2	0.0	53.1

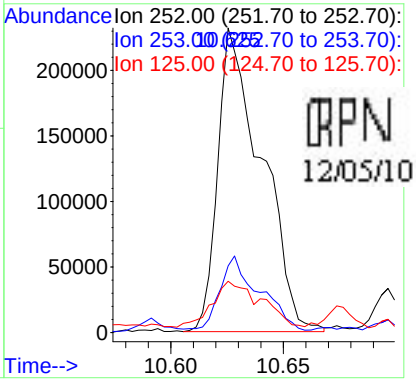




#87
B[k]fluoranth
Concen: 4.05 ug/mL
RT: 10.625 min Scan# 3006
Delta R.T. -0.023 min
Lab File: 870201.D
Acq: 2 Dec 2010 19:45

Tgt Ion:252 Resp: 313742

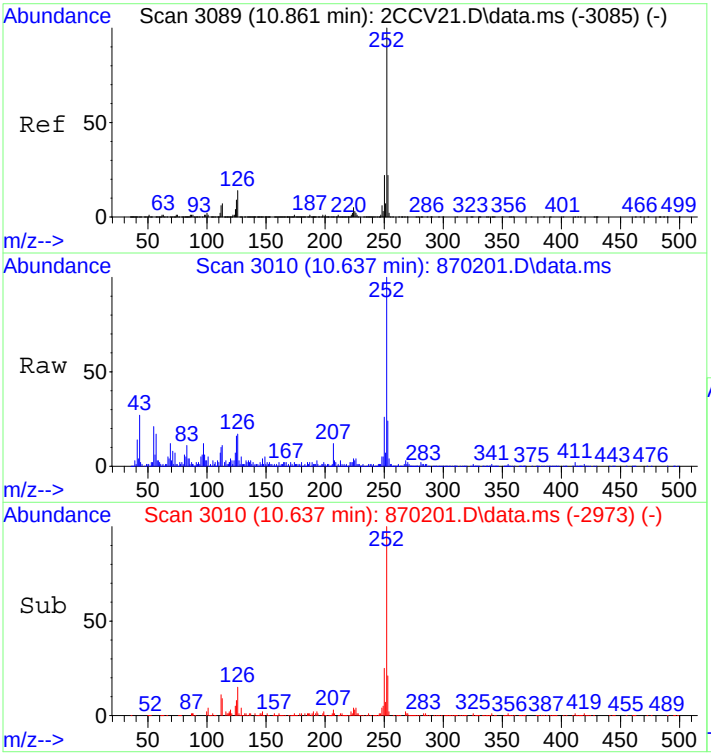
Ion	Ratio	Lower	Upper
252	100		
253	20.8	0.0	50.8
125	13.8	0.0	41.3



RPN 12/05/10

JJY 01/05/11

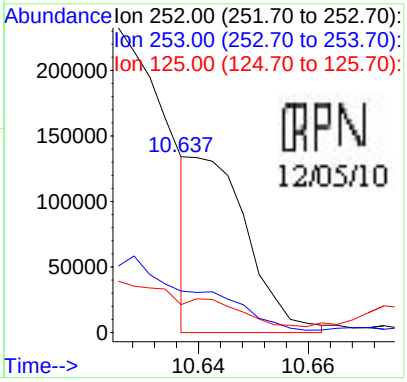
Before Manual Integration



#87
B[k]fluoranth
Concen: 1.25 ug/mL m
RT: 10.637 min Scan# 3010
Delta R.T. -0.011 min
Lab File: 870201.D
Acq: 2 Dec 2010 19:45

Tgt Ion:252 Resp: 96980

Ion	Ratio	Lower	Upper
252	100		
253	23.6	0.0	50.8
125	15.9	0.0	41.3



RPN
12/05/10

JJY
01/05/11

After Manual Integration

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\870201MS.D Vial: 5
Acq On : 2 Dec 2010 20:06 Operator: RPN
Sample : 72180,MSS870201,1 Inst : SVMS2
Misc : 874146,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 13 16:13:40 2010

RPN 12/10/10

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Mon Dec 13 16:13:34 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Compound		R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards							
1) 14Diclbenzd4		4.428	152	539949	20.00	ug/mL	0.00
21) Naphthalened8		6.071	136	2505027	20.00	ug/mL	0.00
39) Acenaphthened10		7.576	164	1285088	20.00	ug/mL	0.00
63) Phenanthrd10		8.469	188	1924294	20.00	ug/mL	0.00
75) Chrysene-d12		9.943	240	1792426	20.00	ug/mL	0.00
85) Perylene-d12		10.910	264	1620580	20.00	ug/mL	0.00
System Monitoring Compounds							
4) SURR2Flphenol		3.186	112	1129837	84.05	%REC	0.03
Spiked Amount	100.000	Range 20 - 110		Recovery = 84.05%			
7) SURRPhenol-d5		3.999	99	1413454	87.54	%REC	0.00
Spiked Amount	100.000	Range 10 - 115		Recovery = 87.54%			
22) SURRNitrbenzened5		5.124	82	521074	86.20	%REC	0.00
Spiked Amount	100.000	Range 40 - 110		Recovery = 86.20%			
44) SURR2Flbiphenyl		7.091	172	1465550	87.16	%REC	0.00
Spiked Amount	100.000	Range 50 - 110		Recovery = 87.16%			
62) SURR246Tribrphenl		8.096	330	386776	99.54	%REC	0.00
Spiked Amount	100.000	Range 40 - 125		Recovery = 99.54%			
78) SURRTerphenyl-d14		9.281	244	1173329	90.12	ug/mL	0.00
Spiked Amount	100.000	Range 50 - 135		Recovery = 90.12%			
Target Compounds							Qvalue
2) Ntrsdimeth		2.377	74	266293	13.8892	ug/mL	89
3) Pyridine		2.391	79	697	0.0205	ug/mL#	3
5) Aniline		4.016	93	14057	0.2701	ug/mL#	1
6) bis2Clethletr		4.124	93	518749	16.0570	ug/mL	99
8) Phenol		4.016	94	710050	17.8413	ug/mL	83
9) 2-Cl-phenol		4.187	128	597753	16.4903	ug/mL	100
10) 13Diclbenz		4.360	146	647020	15.4528	ug/mL	97
11) 14Diclbenz		4.448	146	661314	15.5444	ug/mL	98
12) 12Diclbenz		4.624	146	637479	15.7928	ug/mL	97
13) Benzyl alcoho		4.596	108	96743	6.1031	ug/mL#	59
14) bis2clispreth		4.758	45	980876	15.9406	ug/mL	92
15) 2Methylphenol		4.727	108	541489	17.7931	ug/mL	99
16) Ntrspyrrol		4.906	100	256628	15.9547	ug/mL	84
17) Acetophenone		4.925	105	748105	16.4743	ug/mL	84
18) Hexaclethane		5.050	117	213985	15.0782	ug/mL	97
19) N-Ntrsdinprop		4.934	70	333326	16.3997	ug/mL	97
20) 3&4Methylphenol		4.931	108	553516	18.2373	ug/mL	97
23) Nitrobenzene		5.153	77	518701	16.7963	ug/mL	84
24) Isophorone		5.508	82	1071211	15.7151	ug/mL	92
25) 2-Nitrophenol		5.607	139	372459	16.1303	ug/mL	75
26) 24Dimthpheno		5.687	107	567423	16.2164	ug/mL	88
27) bis2clethoxym		5.815	93	769108	16.3654	ug/mL	90
28) 24Diclphenol		5.914	162	570941	17.4746	ug/mL	98
29) 124Triclbenz		6.011	180	647926	16.0168	ug/mL	97
30) Benzoic acid		5.778	105	134224	7.8256	ug/mL	84
31) Naphthalene		6.093	128	2141295	16.7491	ug/mL	99
32) 4-Cl-aniline		6.170	127	14265	0.2975	ug/mL#	66
33) 26Diclphenol		6.170	162	495155	16.7372	ug/mL	95
34) Hexaclprop		6.190	213	264873	12.7322	ug/mL	97
35) Hexaclbutdien		6.235	225	302395	15.8990	ug/mL	97
36) 4Cl3methylphe		6.667	107	557711	17.8464	ug/mL	87
37) 2Methylnaphth		6.781	141	1216411	17.0452	ug/mL	98
38) 1Methylnaphth		6.863	141	1235033	16.6741	ug/mL	98
40) Hxclcycpentdi		6.912	237	161177	7.8308	ug/mL	96

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\870201MS.D Vial: 5
Acq On : 2 Dec 2010 20:06 Operator: RPN
Sample : 72180,MSS870201,1 Inst : SVMS2
Misc : 874146,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 13 16:13:40 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Mon Dec 13 16:13:34 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

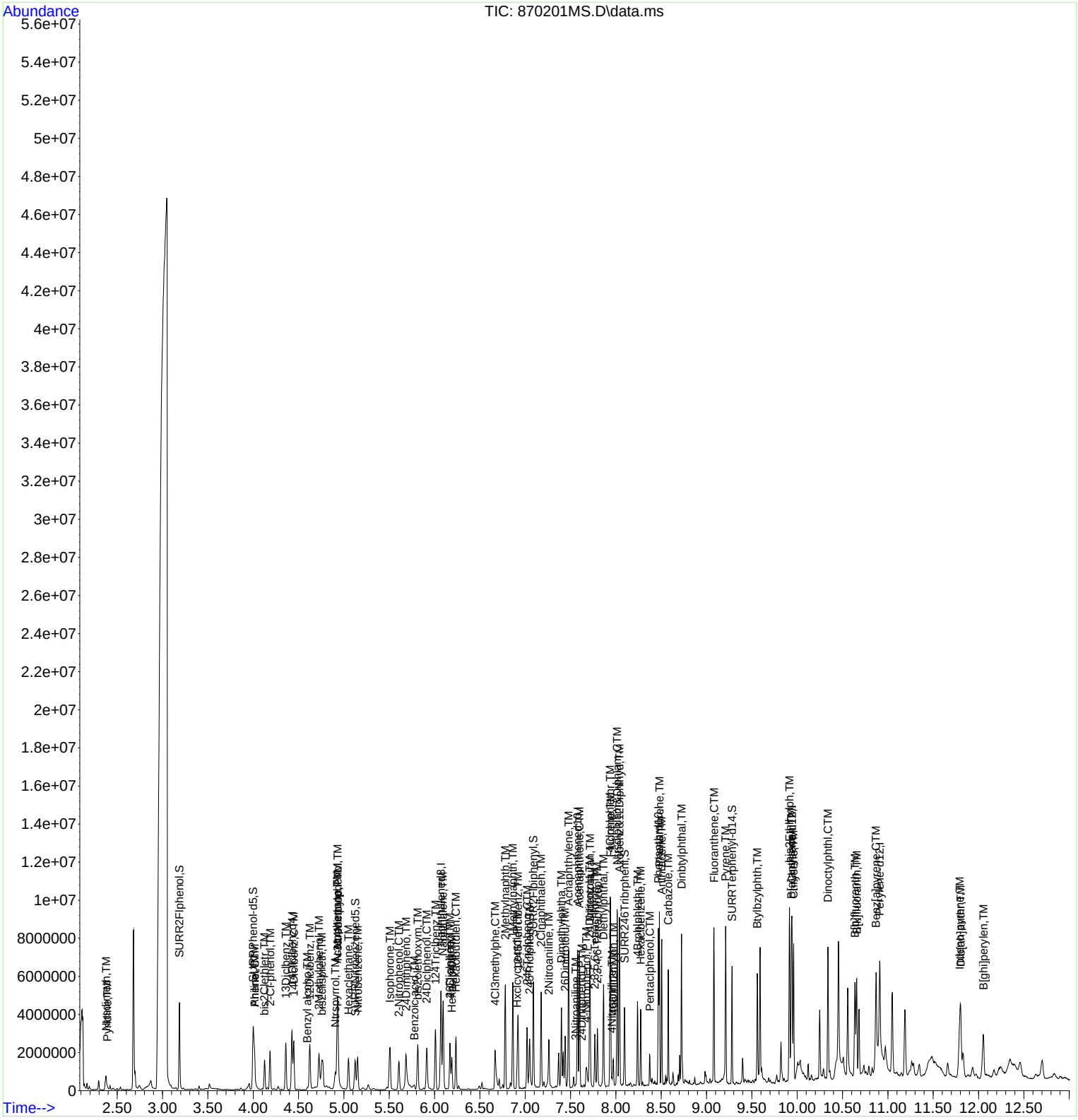
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	6.920	216	571925	16.7090 ug/mL	98
42) 246Triclpheno	7.022	196	401164	17.7930 ug/mL	93
43) 245Triclpheno	7.048	196	451058	18.8357 ug/mL	96
45) 2Clnaphthalen	7.176	162	1255940	16.9183 ug/mL	98
46) 2Nitroaniline	7.261	65	307358	17.7315 ug/mL#	76
47) Acnaphthylene	7.480	152	2187033	17.1959 ug/mL	98
48) Dimethylphtha	7.400	163	1506970	17.2742 ug/mL	100
49) 26Dinitrotolu	7.440	165	344439	18.2532 ug/mL	83
50) Acenaphthene	7.599	153	1400361	17.5130 ug/mL	98
51) 3Nitroaniline	7.557	138	49467	2.4493 ug/mL	78
52) 24Dinitphenol	7.625	184	15390	3.5902 ug/mL	85
53) Dibenzofuran	7.716	168	1836299	17.6497 ug/mL	94
54) 24Dinitrotolu	7.710	165	425337	18.2085 ug/mL	86
55) 4-Nitrophenol	7.673	109	126109	19.4852 ug/mL	80
56) 2,3,5,6-Tetrachlorop	7.767	232	303099	16.7152 ug/mL	97
57) 2,3,4,6-Tetrachlorop	7.795	232	329300	17.2732 ug/mL	96
58) Fluorene	7.940	166	1465162	17.4648 ug/mL	99
59) 4Clphlphlethr	7.937	204	646325	17.3199 ug/mL	97
60) Diethylphthal	7.863	149	1587918	18.0333 ug/mL	99
61) 4Nitroaniline	7.957	138	104724	5.2836 ug/mL#	70
64) 46Dinit2mylph	7.971	198	177436	12.7249 ug/mL	90
65) Ntrsdiphlam&Diphlam	8.014	169	1928927	33.7481 ug/mL	98
66) Azobenz&12Diphlhyd	8.040	182	730295	33.8212 ug/mL#	73
67) 4Brphlphlethr	8.239	248	369425	17.6915 ug/mL	89
68) Hexaclbenzene	8.273	284	366211	16.9077 ug/mL	94
69) Pentaclphenol	8.375	266	148933	14.6569 ug/mL	98
70) Phenanthrene	8.480	178	2023478	19.8313 ug/mL	99
71) Anthracene	8.506	178	1798768	17.3885 ug/mL	98
72) Carbazole	8.577	167	1562076	17.8248 ug/mL	99
73) Dinbtylphthal	8.724	149	2283975	19.3029 ug/mL	99
74) Fluoranthene	9.082	202	2279370	22.1374 ug/mL	96
76) Benzidine	9.165	184	2168	Below Cal	76
77) Pyrene	9.210	202	2250660	21.0561 ug/mL	94
79) Btylbzylphth	9.560	149	941742	18.1201 ug/mL	90
80) 33Diclbnzidin	0.000		0	N.D.	
81) B[a]anthracen	9.935	228	1879090	18.8504 ug/mL	99
82) Chrysene	9.960	228	1813648	18.9892 ug/mL	99
83) bis2Ethlhxlph	9.915	149	2034503	26.9344 ug/mL	99
84) Dinoctylphthl	10.338	149	2453600	18.2814 ug/mL	99
86) B[b]fluoranth	10.637	252	1809175	18.9526 ug/mL	98
87) B[k]fluoranth	10.657	252	1673438	18.5591 ug/mL	98
88) Benz[a]pyrene	10.870	252	1578749	18.1202 ug/mL	98
89) Indeno-pyrene	11.793	276	1517028	17.1479 ug/mL	89
90) Dib[ah]anthr	11.805	278	1142616	15.9184 ug/mL	98
91) B[ghi]perylen	12.055	276	1192652	16.2302 ug/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\870201MS.D Vial: 5
Acq On : 2 Dec 2010 20:06 Operator: RPN
Sample : 72180,MSS870201,1 Inst : SVMS2
Misc : 874146,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 13 16:13:40 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Mon Dec 13 16:13:34 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\870201SR.D Vial: 5
Acq On : 2 Dec 2010 22:26 Operator: RPN
Sample : 72180,MSS870201,1 Inst : SVMS2
Misc : 874146,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 05 16:49:50 2010

RPN 12/05/10

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 14:33:20 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.428	152	561411	20.00	ug/mL	0.00
21) Naphthalened8	6.068	136	2584333	20.00	ug/mL	0.00
39) Acenaphthened10	7.574	164	1324710	20.00	ug/mL	0.00
63) Phenanthrd10	8.466	188	1983037	20.00	ug/mL	0.00
75) Chrysene-d12	9.938	240	1804255	20.00	ug/mL	0.00
85) Perylene-d12	10.909	264	1500695	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	3.189	112	1168319	83.59	%REC	0.03
Spiked Amount 100.000	Range 20 - 110		Recovery = 83.59%			
7) SURRPhenol-d5	4.002	99	1454395	86.63	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 86.63%			
22) SURRNitrbenzened5	5.127	82	536570	86.04	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 86.04%			
44) SURR2Flbiphenyl	7.085	172	1510420	87.14	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 87.14%			
62) SURR246Tribrphenl	8.091	330	410643	102.52	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 102.52%			
78) SURRTerphenyl-d14	9.276	244	1207245	92.12	ug/mL	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 92.12%			
Target Compounds						Qvalue
2) Ntrsdimeth	2.377	74	270435	13.5660	ug/mL	86
3) Pyridine	2.388	79	732	0.0207	ug/mL	85
5) Aniline	4.019	93	12222	0.2258	ug/mL#	1
6) bis2Clethletr	4.127	93	537122	15.9901	ug/mL	97
8) Phenol	4.019	94	720799	17.4190	ug/mL	84
9) 2-Cl-phenol	4.189	128	622746	16.5230	ug/mL	99
10) 13Diclbenz	4.360	146	680996	15.6425	ug/mL	98
11) 14Diclbenz	4.448	146	687053	15.5320	ug/mL	97
12) 12Diclbenz	4.624	146	659776	15.7203	ug/mL	94
13) Benzyl alcoho	4.596	108	284558	15.1425	ug/mL#	74
14) bis2clispreth	4.766	45	1007642	15.7496	ug/mL	96
15) 2Methylphenol	4.729	108	565096	17.8590	ug/mL	97
16) Ntrspyrrol	4.908	100	266715	15.9479	ug/mL	80
17) Acetophenone	4.928	105	769140	16.2900	ug/mL	84
18) Hexaclethane	5.050	117	210860	14.2900	ug/mL	99
19) N-Ntrsdinprop	4.934	70	330919	15.6589	ug/mL	98
20) 3&4Methylphenol	4.934	108	555900	17.6157	ug/mL	100
23) Nitrobenzene	5.153	77	526876	16.5375	ug/mL	85
24) Isophorone	5.511	82	1079278	15.3475	ug/mL	90
25) 2-Nitrophenol	5.607	139	375273	15.7535	ug/mL	77
26) 24Dimthpheno	5.684	107	576078	15.9585	ug/mL	85
27) bis2clethoxym	5.815	93	783689	16.1639	ug/mL	87
28) 24Diclphenol	5.914	162	579534	17.1933	ug/mL	97
29) 124Triclbenz	6.008	180	673718	16.1433	ug/mL	98
30) Benzoic acid	5.775	105	132717	7.6222	ug/mL	82
31) Naphthalene	6.093	128	2191948	16.6192	ug/mL	99
32) 4-Cl-aniline	6.170	127	13061	0.2640	ug/mL	74
33) 26Diclphenol	6.167	162	510143	16.7146	ug/mL	95
34) Hexaclprop	6.187	213	186522	8.6908	ug/mL	98
35) Hexaclbutdien	6.232	225	315717	16.0901	ug/mL	97
36) 4Cl3methylphe	6.664	107	575266	17.8433	ug/mL	89
37) 2Methylnaphth	6.778	141	1238336	16.8199	ug/mL	97
38) 1Methylnaphth	6.860	141	1251130	16.3731	ug/mL	98
40) Hxclcycpentdi	6.909	237	88463	4.3797	ug/mL	93

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\870201SR.D Vial: 5
Acq On : 2 Dec 2010 22:26 Operator: RPN
Sample : 72180,MSS870201,1 Inst : SVMS2
Misc : 874146,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 05 16:49:50 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 14:33:20 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

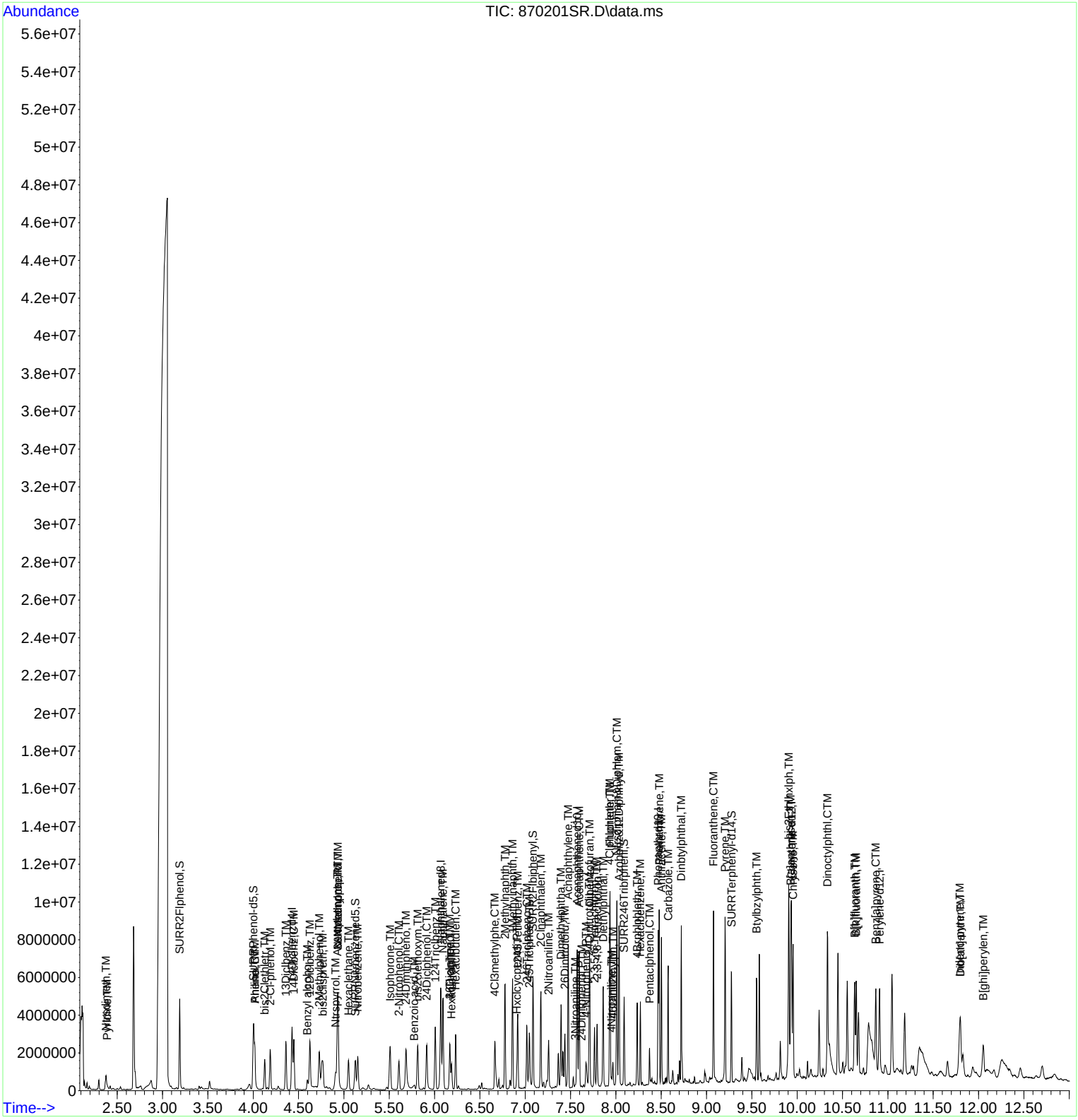
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	6.917	216	600768	17.0267 ug/mL	99
42) 246Triclpheno	7.019	196	409461	17.6178 ug/mL	92
43) 245Triclpheno	7.045	196	462187	18.7232 ug/mL	99
45) 2Clnaphthalen	7.173	162	1289614	16.8523 ug/mL	97
46) 2Nitroaniline	7.258	65	303134	16.9647 ug/mL#	63
47) Acnaphthylene	7.474	152	2224149	16.9647 ug/mL	98
48) Dimethylphtha	7.395	163	1543582	17.1646 ug/mL	100
49) 26Dinitrotolu	7.437	165	350108	17.9987 ug/mL	84
50) Acenaphthene	7.596	153	1423626	17.2715 ug/mL	100
51) 3Nitroaniline	7.551	138	44806	2.1522 ug/mL#	60
52) 24Dinitphenol	7.622	184	15994	3.6001 ug/mL	80
53) Dibenzofuran	7.710	168	1848953	17.2398 ug/mL	96
54) 24Dinitrotolu	7.704	165	438503	18.2107 ug/mL	85
55) 4-Nitrophenol	7.670	109	115981	17.3844 ug/mL	84
56) 2,3,5,6-Tetrachlorop	7.764	232	322729	17.2511 ug/mL	96
57) 2,3,4,6-Tetrachlorop	7.792	232	358305	18.2162 ug/mL	93
58) Fluorene	7.934	166	1485568	17.1784 ug/mL	99
59) 4Clphlphlethr	7.932	204	666061	17.3149 ug/mL	97
60) Diethylphthal	7.861	149	1598830	17.6141 ug/mL	99
61) 4Nitroaniline	7.951	138	89473	4.3791 ug/mL#	68
64) 46Dinit2mylph	7.968	198	161286	11.2240 ug/mL#	55
65) Ntrsdiphlam&Diphlam	8.011	169	1959112	33.2609 ug/mL	99
66) Azobenz&12Diphlhyd	8.034	182	742518	33.3686 ug/mL#	77
67) 4Brphlphlethr	8.236	248	380676	17.6903 ug/mL	89
68) Hexaclbenzene	8.270	284	379954	17.0225 ug/mL	96
69) Pentaclphenol	8.372	266	160446	15.2033 ug/mL	96
70) Phenanthrene	8.477	178	2103755	20.0073 ug/mL	100
71) Anthracene	8.503	178	1858562	17.4343 ug/mL	98
72) Carbazole	8.577	167	1601312	17.7312 ug/mL	98
73) Dinbtylphthal	8.721	149	2328479	19.0960 ug/mL	98
74) Fluoranthene	9.077	202	2335495	22.0105 ug/mL	96
76) Benzidine	9.128	184	1459	Below Cal #	1
77) Pyrene	9.205	202	2324986	21.6088 ug/mL	93
79) Btylbzylphth	9.551	149	943082	18.0269 ug/mL	90
80) 33Diclbnzidin	9.955	252	2995	Below Cal #	60
81) B[a]anthracen	9.929	228	1890711	18.8426 ug/mL	99
82) Chrysene	9.955	228	1841203	19.1513 ug/mL	99
83) bis2Ethlhxlph	9.906	149	1977246	26.0048 ug/mL	99
84) Dinoctylphthl	10.333	149	2361228	17.4778 ug/mL	99
86) B[b]fluoranth	10.634	252	1783283	20.1737 ug/mL	97
87) B[k]fluoranth	10.651	252	1561119	18.6966 ug/mL	97
88) Benz[a]pyrene	10.867	252	1479634	18.3393 ug/mL	97
89) Indeno-pyrene	11.793	276	1141396	13.9325 ug/mL	96
90) Dib[ah]anthr	11.802	278	883571	13.2928 ug/mL	97
91) B[ghi]perylen	12.052	276	828266	12.1719 ug/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\870201SR.D Vial: 5
Acq On : 2 Dec 2010 22:26 Operator: RPN
Sample : 72180,MSS870201,1 Inst : SVMS2
Misc : 874146,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 05 16:49:50 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 14:33:20 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\870201SD.D Vial: 6
Acq On : 2 Dec 2010 20:26 Operator: RPN
Sample : 72180,MSDS870201,1 Inst : SVMS2
Misc : 874147,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 13 16:15:47 2010

RPN 12/10/10

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Mon Dec 13 16:15:42 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.428	152	534794	20.00	ug/mL	0.00
21) Naphthalened8	6.073	136	2454441	20.00	ug/mL	0.00
39) Acenaphthened10	7.579	164	1277919	20.00	ug/mL	0.00
63) Phenanthrd10	8.471	188	1917039	20.00	ug/mL	0.00
75) Chrysene-d12	9.938	240	1788125	20.00	ug/mL	0.00
85) Perylene-d12	10.907	264	1599522	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	3.195	112	1127162	84.66	%REC	0.03
Spiked Amount 100.000	Range 20 - 110		Recovery = 84.66%			
7) SURRPhenol-d5	4.002	99	1370177	85.68	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 85.68%			
22) SURRNitrbenzened5	5.124	82	517949	87.45	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 87.45%			
44) SURR2Flbiphenyl	7.093	172	1459921	87.32	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 87.32%			
62) SURR246Tribrphenl	8.099	330	385346	99.73	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 99.73%			
78) SURRTerphenyl-d14	9.278	244	1169360	90.03	ug/mL	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 90.03%			
Target Compounds						Qvalue
2) Ntrsdimeth	2.377	74	261968	13.7953	ug/mL	86
3) Pyridine	2.394	79	338	N.D.		
5) Aniline	4.016	93	14630	0.2838	ug/mL#	1
6) bis2Clethletr	4.127	93	518337	16.1989	ug/mL	99
8) Phenol	4.016	94	709147	17.9904	ug/mL	85
9) 2-Cl-phenol	4.187	128	607298	16.9151	ug/mL	98
10) 13Diclbenz	4.360	146	659140	15.8940	ug/mL	97
11) 14Diclbenz	4.448	146	671136	15.9273	ug/mL	99
12) 12Diclbenz	4.624	146	647070	16.1849	ug/mL	95
13) Benzyl alcoho	4.596	108	133534	8.0981	ug/mL#	67
14) bis2clispreth	4.766	45	1000624	16.4183	ug/mL	95
15) 2Methylphenol	4.726	108	545802	18.1077	ug/mL	92
16) Ntrspyrrol	4.905	100	267725	16.8051	ug/mL	83
17) Acetophenone	4.928	105	740281	16.4591	ug/mL	84
18) Hexaclethane	5.050	117	216206	15.3815	ug/mL	95
19) N-Ntrsdinprop	4.934	70	321629	15.9768	ug/mL	95
20) 3&4Methylphenol	4.931	108	562138	18.6999	ug/mL	98
23) Nitrobenzene	5.153	77	513344	16.9654	ug/mL	83
24) Isophorone	5.508	82	1092494	16.3576	ug/mL	97
25) 2-Nitrophenol	5.607	139	374900	16.5707	ug/mL	81
26) 24Dimthpheno	5.687	107	597202	17.4192	ug/mL	90
27) bis2clethoxym	5.815	93	764020	16.5922	ug/mL	88
28) 24Diclphenol	5.917	162	583344	18.2222	ug/mL	97
29) 124Triclbenz	6.011	180	651357	16.4335	ug/mL	97
30) Benzoic acid	5.769	105	89406	6.2580	ug/mL	77
31) Naphthalene	6.096	128	2137272	17.0622	ug/mL	100
32) 4-Cl-aniline	6.176	127	14846	0.3160	ug/mL	83
33) 26Diclphenol	6.173	162	516484	17.8179	ug/mL	95
34) Hexaclprop	6.190	213	254632	12.4922	ug/mL	100
35) Hexaclbutdien	6.238	225	301197	16.1624	ug/mL	95
36) 4Cl3methylphe	6.670	107	572335	18.6919	ug/mL	85
37) 2Methylnaphth	6.784	141	1229673	17.5861	ug/mL	97
38) 1Methylnaphth	6.866	141	1244560	17.1491	ug/mL	97
40) Hxclcycpentdi	6.914	237	161327	7.8791	ug/mL	99

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\870201SD.D Vial: 6
Acq On : 2 Dec 2010 20:26 Operator: RPN
Sample : 72180,MSDS870201,1 Inst : SVMS2
Misc : 874147,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 13 16:15:47 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Mon Dec 13 16:15:42 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

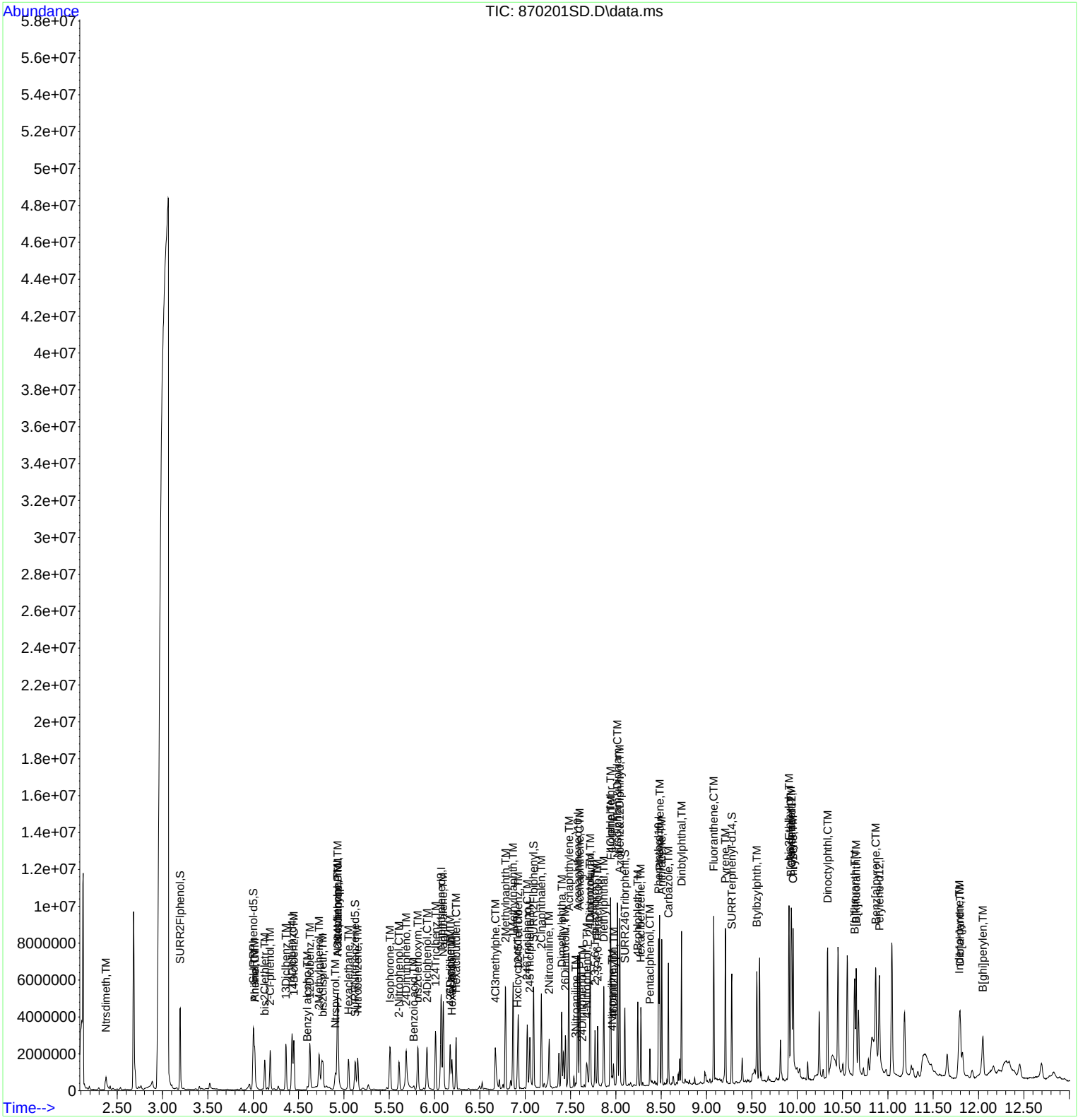
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	6.923	216	580008	17.0402 ug/mL	93
42) 246Triclpheno	7.022	196	413801	18.4565 ug/mL	94
43) 245Triclpheno	7.051	196	462420	19.4185 ug/mL	99
45) 2Clnaphthalen	7.179	162	1287508	17.4408 ug/mL	98
46) 2Nitroaniline	7.264	65	310436	18.0095 ug/mL#	65
47) Acnaphthylene	7.483	152	2220980	17.5608 ug/mL	98
48) Dimethylphtha	7.403	163	1538478	17.7343 ug/mL	99
49) 26Dinitrotolu	7.443	165	343325	18.2963 ug/mL	82
50) Acenaphthene	7.602	153	1415355	17.7999 ug/mL	98
51) 3Nitroaniline	7.556	138	59215	2.9484 ug/mL	90
52) 24Dinitphenol	7.630	184	10387	3.2001 ug/mL	85
53) Dibenzofuran	7.718	168	1863906	18.0155 ug/mL	94
54) 24Dinitrotolu	7.713	165	437382	18.8292 ug/mL	86
55) 4-Nitrophenol	7.679	109	122555	19.0423 ug/mL	88
56) 2,3,5,6-Tetrachlorop	7.770	232	319533	17.6942 ug/mL	97
57) 2,3,4,6-Tetrachlorop	7.798	232	360426	18.9830 ug/mL	95
58) Fluorene	7.943	166	1492865	17.8948 ug/mL	98
59) 4Clphlphlethr	7.940	204	663941	17.8917 ug/mL	96
60) Diethylphthal	7.866	149	1617401	18.4711 ug/mL	98
61) 4Nitroaniline	7.960	138	130380	6.6149 ug/mL#	75
64) 46Dinit2mylph	7.974	198	146461	10.5432 ug/mL	80
65) Ntrsdiphlam&Diphlam	8.017	169	2002307	35.1645 ug/mL	100
66) Azobenz&12Diphlhyd	8.042	182	766537	35.6339 ug/mL#	70
67) 4Brphlphlethr	8.241	248	369119	17.7438 ug/mL	93
68) Hexaclbenzene	8.275	284	376815	17.4631 ug/mL	99
69) Pentaclphenol	8.375	266	159615	15.5687 ug/mL	95
70) Phenanthrene	8.483	178	2072951	20.3931 ug/mL	99
71) Anthracene	8.506	178	1842243	17.8761 ug/mL	99
72) Carbazole	8.579	167	1647724	18.8732 ug/mL	99
73) Dinbtylphthal	8.724	149	2368620	20.0940 ug/mL	99
74) Fluoranthene	9.079	202	2343384	22.8452 ug/mL	97
76) Benzidine	9.278	184	12832	Below Cal	78
77) Pyrene	9.207	202	2350399	22.0421 ug/mL	94
79) Btylbzylphth	9.554	149	968935	18.6881 ug/mL	90
80) 33Diclbnzidin	0.000		0	N.D.	
81) B[a]anthracen	9.932	228	1970025	19.8102 ug/mL	98
82) Chrysene	9.955	228	1903149	19.9742 ug/mL	100
83) bis2Ethlhxlph	9.909	149	2072129	27.4985 ug/mL	98
84) Dinoctylphthl	10.335	149	2524283	18.8533 ug/mL	99
86) B[b]fluoranth	10.634	252	2009640	21.3298 ug/mL	98
87) B[k]fluoranth	10.651	252	1673565	18.8049 ug/mL	98
88) Benz[a]pyrene	10.867	252	1663693	19.3465 ug/mL	96
89) Indeno-pyrene	11.787	276	1481834	16.9706 ug/mL	91
90) Dib[ah]anthr	11.796	278	1145619	16.1703 ug/mL	96
91) B[ghi]perylen	12.049	276	1144398	15.7786 ug/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\870201SD.D Vial: 6
Acq On : 2 Dec 2010 20:26 Operator: RPN
Sample : 72180,MSDS870201,1 Inst : SVMS2
Misc : 874147,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 13 16:15:47 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Mon Dec 13 16:15:42 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\870201DR.D Vial: 6
Acq On : 2 Dec 2010 22:47 Operator: RPN
Sample : 72179,MSDS870201,1 Inst : SVMS2
Misc : 874147,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 03 13:24:46 2010

RPN 12/10/10

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 14:33:20 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.428	152	530104	20.00	ug/mL	0.00
21) Naphthalened8	6.073	136	2490338	20.00	ug/mL	0.00
39) Acenaphthened10	7.579	164	1299820	20.00	ug/mL	0.00
63) Phenanthrd10	8.469	188	1927121	20.00	ug/mL	0.00
75) Chrysene-d12	9.938	240	1774363	20.00	ug/mL	0.00
85) Perylene-d12	10.907	264	1414941	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	3.195	112	1141845	86.53	%REC	0.03
Spiked Amount 100.000	Range 20 - 110		Recovery = 86.53%			
7) SURRPhenol-d5	4.005	99	1395476	88.03	%REC	0.01
Spiked Amount 100.000	Range 10 - 115		Recovery = 88.03%			
22) SURRNitrbenzened5	5.127	82	515421	85.77	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 85.77%			
44) SURR2Flbiphenyl	7.091	172	1489721	87.60	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 87.60%			
62) SURR246Tribrphenl	8.099	330	406720	103.49	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 103.49%			
78) SURRTerphenyl-d14	9.276	244	1205704	93.55	ug/mL	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 93.55%			
Target Compounds						Qvalue
2) Ntrsdimeth	2.377	74	289082	15.3579	ug/mL	82
3) Pyridine	2.388	79	415	N.D.		
5) Aniline	4.096	93	1864	0.0365	ug/mL#	2
6) bis2Clethletr	4.127	93	518528	16.3482	ug/mL	98
8) Phenol	4.019	94	721072	18.4547	ug/mL	86
9) 2-Cl-phenol	4.190	128	614929	17.2792	ug/mL	98
10) 13Diclbenz	4.363	146	661517	16.0924	ug/mL	97
11) 14Diclbenz	4.448	146	675992	16.1845	ug/mL	98
12) 12Diclbenz	4.627	146	649506	16.3896	ug/mL	96
13) Benzyl alcoho	4.599	108	295283	16.4775	ug/mL#	71
14) bis2clispreth	4.769	45	998937	16.5356	ug/mL	95
15) 2Methylphenol	4.732	108	572215	19.1520	ug/mL	95
16) Ntrspyrrol	4.911	100	267815	16.9595	ug/mL	82
17) Acetophenone	4.931	105	749990	16.8225	ug/mL	85
18) Hexaclethane	5.050	117	197735	14.1919	ug/mL	98
19) N-Ntrsdinprop	4.937	70	325517	16.3130	ug/mL	93
20) 3&4Methylphenol	4.934	108	562292	18.8705	ug/mL	98
23) Nitrobenzene	5.156	77	523783	17.0609	ug/mL	78
24) Isophorone	5.511	82	1099236	16.2213	ug/mL	94
25) 2-Nitrophenol	5.610	139	380079	16.5574	ug/mL	77
26) 24Dimthpheno	5.690	107	605981	17.4205	ug/mL	88
27) bis2clethoxym	5.818	93	798920	17.1000	ug/mL	88
28) 24Diclphenol	5.917	162	605579	18.6441	ug/mL	95
29) 124Triclbenz	6.011	180	662784	16.4807	ug/mL	98
30) Benzoic acid	5.852	105	781	2.9512	ug/mL#	33
31) Naphthalene	6.096	128	2160304	16.9974	ug/mL	100
32) 4-Cl-aniline	6.176	127	19031	0.3992	ug/mL	86
33) 26Diclphenol	6.173	162	517737	17.6037	ug/mL	94
34) Hexaclprop	6.190	213	157652	7.6229	ug/mL	97
35) Hexaclbutdien	6.238	225	314593	16.6379	ug/mL	96
36) 4Cl3methylphe	6.670	107	570161	18.3524	ug/mL	86
37) 2Methylnaphth	6.784	141	1262489	17.7952	ug/mL	98
38) 1Methylnaphth	6.866	141	1260685	17.1209	ug/mL	97
40) Hxclcycpentdi	6.912	237	84135	4.2589	ug/mL	94

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\870201DR.D Vial: 6
Acq On : 2 Dec 2010 22:47 Operator: RPN
Sample : 72179,MSDS870201,1 Inst : SVMS2
Misc : 874147,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 03 13:24:46 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 14:33:20 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M

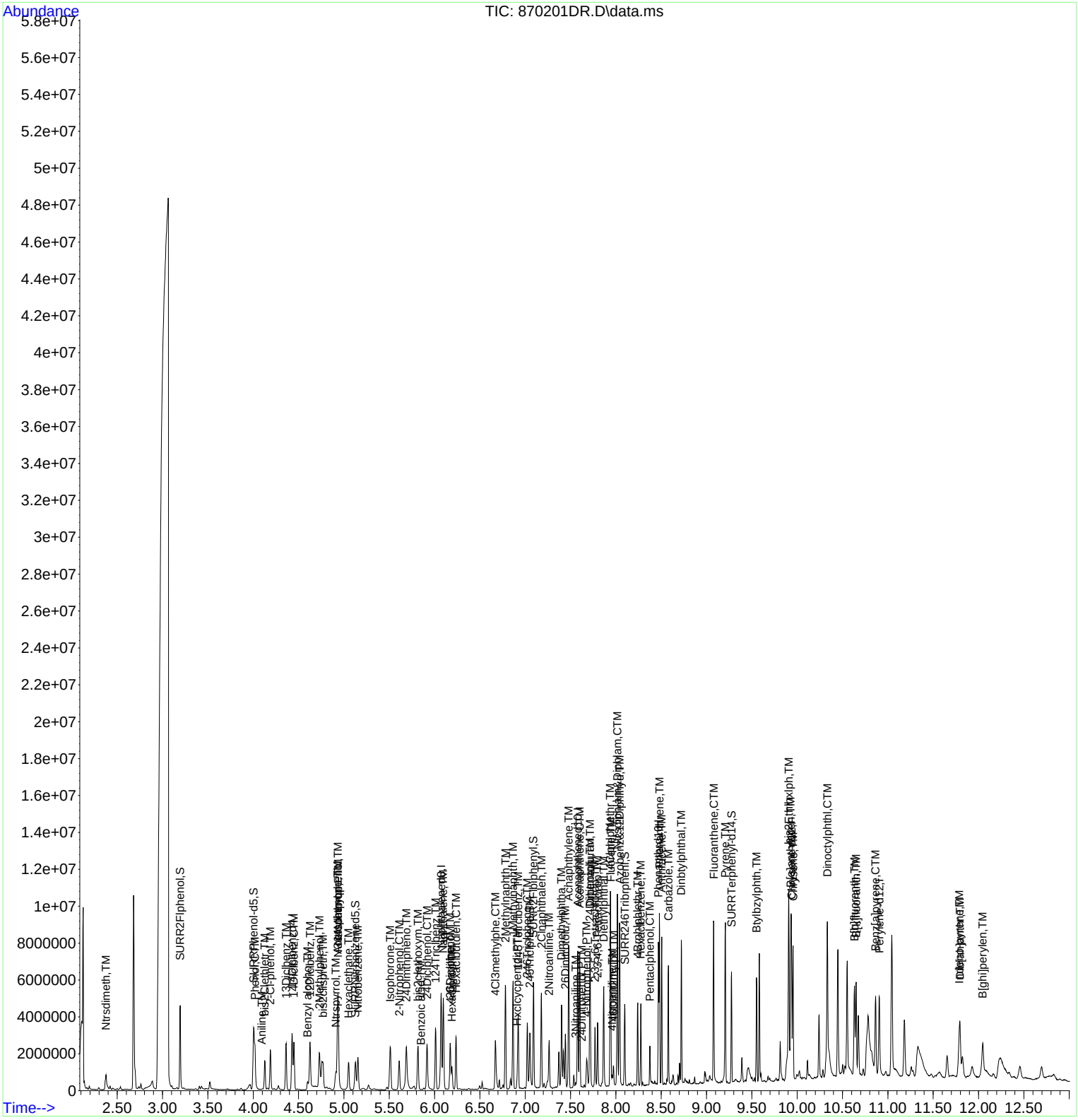
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	6.923	216	607499	17.5471 ug/mL	93
42) 246Triclpheno	7.022	196	422144	18.5114 ug/mL	92
43) 245Triclpheno	7.051	196	458318	18.9220 ug/mL	100
45) 2Clnaphthalen	7.179	162	1301272	17.3303 ug/mL	97
46) 2Nitroaniline	7.264	65	310594	17.7151 ug/mL#	68
47) Acnaphthylene	7.480	152	2266529	17.6189 ug/mL	98
48) Dimethylphtha	7.400	163	1569166	17.7833 ug/mL	99
49) 26Dinitrotolu	7.443	165	352167	18.4513 ug/mL	84
50) Acenaphthene	7.602	153	1451032	17.9411 ug/mL	100
51) 3Nitroaniline	7.557	138	64521	3.1585 ug/mL	82
52) 24Dinitphenol	7.625	184	9936	3.1511 ug/mL	92
53) Dibenzofuran	7.716	168	1884588	17.9085 ug/mL	95
54) 24Dinitrotolu	7.713	165	441144	18.6711 ug/mL	80
55) 4-Nitrophenol	7.676	109	120319	18.3799 ug/mL#	75
56) 2,3,5,6-Tetrachlorop	7.770	232	329000	17.9062 ug/mL	96
57) 2,3,4,6-Tetrachlorop	7.798	232	356617	18.4735 ug/mL	98
58) Fluorene	7.943	166	1505266	17.7394 ug/mL	99
59) 4Clphlphlethr	7.937	204	683233	18.1014 ug/mL	97
60) Diethylphthal	7.866	149	1626876	18.2663 ug/mL	99
61) 4Nitroaniline	7.960	138	116380	5.8051 ug/mL#	69
64) 46Dinit2mylph	7.974	198	131568	9.4216 ug/mL	84
65) Ntrsdiphlam&Diphlam	8.017	169	2042683	35.6860 ug/mL	98
66) Azobenz&12Diphlhyd	8.043	182	758809	35.0901 ug/mL#	66
67) 4Brphlphlethr	8.241	248	388604	18.5827 ug/mL	88
68) Hexaclbenzene	8.276	284	383676	17.6880 ug/mL	98
69) Pentaclphenol	8.375	266	165543	15.9784 ug/mL	98
70) Phenanthrene	8.480	178	2124142	20.7874 ug/mL	100
71) Anthracene	8.506	178	1887632	18.2208 ug/mL	99
72) Carbazole	8.580	167	1681794	19.1627 ug/mL	98
73) Dinbtylphthal	8.722	149	2398144	20.2380 ug/mL	99
74) Fluoranthene	9.080	202	2382390	23.1040 ug/mL	94
76) Benzidine	9.276	184	12491	Below Cal	88
77) Pyrene	9.208	202	2370594	22.4039 ug/mL	91
79) Btylbzylphth	9.551	149	968733	18.8291 ug/mL	91
80) 33Diclbnzidin	0.000		0	N.D.	
81) B[a]anthracen	9.929	228	1935523	19.6142 ug/mL	99
82) Chrysene	9.955	228	1903337	20.1311 ug/mL	99
83) bis2Ethlhxlph	9.907	149	2021458	27.0341 ug/mL	99
84) Dinoctylphthl	10.333	149	2378894	17.9052 ug/mL	98
86) B[b]fluoranth	10.631	252	1745009	20.9372 ug/mL	97
87) B[k]fluoranth	10.651	252	1626668	20.6623 ug/mL	99
88) Benz[a]pyrene	10.864	252	1470284	19.3278 ug/mL	97
89) Indeno-pyrene	11.788	276	1097215	14.2050 ug/mL	96
90) Dib[ah]anthr	11.796	278	860214	13.7258 ug/mL	98
91) B[ghi]perylen	12.046	276	805352	12.5524 ug/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S120210B\870201DR.D Vial: 6
Acq On : 2 Dec 2010 22:47 Operator: RPN
Sample : 72179,MSDS870201,1 Inst : SVMS2
Misc : 874147,500uL+5uL IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 03 13:24:46 2010

Quant Method : C:\INSTARCH\METHOD\2S120210.M
Quant Title : Method for 8270 analysis for instrument SVMS2
QLast Update : Thu Dec 02 14:33:20 2010
Response via : Initial Calibration
DataAcq Meth:2S120210.M



SEMI - VOLATILE ORGANIC ANALYSIS
LOGBOOK
DOCUMENTS

S 8330B EXPLOSIVES QSM Analytical Run
72413 on 12/30/2010

RED
12/30/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	875951						8330B EXPLOSIVES QSM				
				MBS				35571			
	875952						8330B EXPLOSIVES QSM				
				LCSS				35571			
82424	870201		11/9/2010 1525		USACE - LOUISVILLE	RAVENNA	8330B EXPLOSIVES QSM		S	**4**	
		DLASS-014-0001-SO		Designated MS/MSD				35571			
	875953		11/9/2010 1525				8330B EXPLOSIVES QSM				
		DLASS-014-0001-SO		MSS 870201				35571			
	875954		11/9/2010 1525				8330B EXPLOSIVES QSM				
		DLASS-014-0001-SO		MSDS 875953				35571			
82424	870203		11/9/2010 1535		USACE - LOUISVILLE	RAVENNA	8330B EXPLOSIVES QSM		S	**4**	
		DLASS-014-0003-SO						35571			
82458	871184		11/11/2010 0900		USACE - LOUISVILLE	RAVENNA ORE PILES	8330B EXPLOSIVES QSM		S	**4**	
		DLASS-032-0003-SO						35571			
82458	871186		11/11/2010 1230		USACE - LOUISVILLE	RAVENNA ORE PILES	8330B EXPLOSIVES QSM		S	**4**	
		DLASS-042-0003-SO						35571			
82458	871197		11/11/2010 1220		USACE - LOUISVILLE	RAVENNA ORE PILES	8330B EXPLOSIVES QSM		S	**4**	
		DLASS-042-0001-SO						35571			
82458	871198		11/11/2010 0900		USACE - LOUISVILLE	RAVENNA ORE PILES	8330B EXPLOSIVES QSM		S	**4**	
		DLASS-032-0001-SO						35571			

10 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

PREP WORKSHEET
on 12/30/2010

Prep Batch **35,571**

Prepped By:: RED

Date Prepped: 12/2/2010

Date Entered:

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
	875951	MBS		8330B EXPLOSIVES QSM	SOLID	20.0	9.90			
	875952	LCSS		8330B EXPLOSIVES QSM	SOLID	20.0	10.07			
82424	870201	*		8330B EXPLOSIVES QSM	SOIL	20.0	10.12		N	
	870203			8330B EXPLOSIVES QSM	SOIL	20.0	9.97		N	
82458	871184			8330B EXPLOSIVES QSM	SOIL	20.0	9.92		N	
	871186			8330B EXPLOSIVES QSM	SOIL	20.0	9.94		N	
	871197			8330B EXPLOSIVES QSM	SOIL	20.0	10.00		N	
	871198			8330B EXPLOSIVES QSM	SOIL	20.0	9.94		N	
	875953	MSS	870201	8330B EXPLOSIVES QSM	SOIL	20.0	9.95			
	875954	MSDS	875953	8330B EXPLOSIVES QSM	SOIL	20.0	10.09			

Control Spike/Control Spike Dup Reference Number:_____ Methanol Supplier/Lot #:_____

Notes:_____

Distibution:

C:\LIMSREPS\PREPWRKSHT.RPT

Table 6
8330A/8330B Bench Sheet

Explosives Prep Bench Sheet
SOP Reference Number 8330A & 8330B

Method references: 8330A (Explosives) – Water/Soil
8330B (Explosives) – Water/Soil
3535 (SPE) - Water

Test (circle one): Explosives *or* Nitroguanidine

Matrix: (Soil) Groundwater other_____ **Prep Batch Number** 355771

Spike and Surrogate Information:
Spike amount and concentration (Matrix Spikes and LCS): 2.00mL @ 10/40 ug/mL
Spike Reference: Exp 4060
Surrogate amount and concentration: 2.00mL @ 10ug/mL
Surrogate Reference: Exp 4081

Extraction Information and Reagent Lot #: Balance used Fisher A-200DS
Extraction solvent: ACN Supplier: Mallinckrodt Lot #: J19500
Dilution solvent: 0.1% formic acid in H2O Supplier Sigma-Aldrich Lot #: 04817JE
Soil sonication start time/ date: 12/2/10 @ 15:00 Soil sonication stop time/ date: 12/3/2010 @ 9:00
Extraction by: RED Date 12/2/2010 Start Time 13:30 End Time 14:45
GPC by: — GPC start time/date — GPC end time/date —
Concentration by: — Date

Client	Sample Number	Sample Amt. (gm or mL)	Initial Extract Vol.* (mL)	Final Extract Vol. ** (mL)	Comments
					Grinding Blank 12-2-2010
Method Blank	MB 875957	9.90	20.0	40.0	~~Sand~~ Blank
Control Spike	LCS 875952	10.07			Exp 4062
Matrix Spike	MS 870201	9.95			
Matrix Spike Dup.	MSD 870201	10.09			
Sample Duplicate	DUP 870201	9.92			
Sample Triplicate	TRIP 870201	10.00			
USACE	870201	10.12			
	870203	9.97			
	871184	9.92			
	871186	9.94			
	871197	10.00			
	871198	9.94			

RED 12/2/2010

*Initial volumes include volume contributed from spiking solutions
**Final soil extract volumes diluted with equivalent volume of DI water or 0.1% formic acid in water solution before analysis.
Footnotes:

Table 5

8330B Analysis Data Review Checklist

Analytical Run #: 72413	**Independent Reviewer: JJY**
Sequence Date: 12/13/2010	**Date of Review: 12/17/2010**
Analyst/Data Interpreter: red	**Approval: YES**

Instructions: Complete one checklist per *analytical run* . Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section, and may require the initiation of a Nonconformance Report.

Requirements:	Acceptance Criteria	Analyst Review		Independent Review		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
1. INITIAL CALIBRATION (ICAL)						
a. Was the Explosive initial calibration performed using a minimum of five varying standard concentration levels?	Lowest standard at or near MRL	**Yes**		**Yes**		
b. Is the variation between calibration response factors for all concentration levels <15% RSD, is r^2 >.990, or r > 0.995 for the regression line?		**Yes**		**Yes**		
c. Was each ICAL uniquely identified (i.e. Standard Number)?	RSD<15%, r^2>0.990, or r>0.995	**Yes**		**Yes**		
d. Was an initial calibration blank (ICB) analyzed?		**Yes**		**Yes**		
2. INITIAL CALIBRATION VERIFICATION (ICV)						
a. Was there a second source ICV for all target analytes analyzed after the initial calibration and prior to analysis of any samples?	Second source	**Yes**		**Yes**		
b. Were the recoveries for the ICV between 85-115% (80-120% for QSM).	% Recovery	**Yes**		**Yes**		
c. Was the ICV uniquely identified (i.e. Standard Number)?		**Yes**		**Yes**		
3. CONTINUING CALIBRATION VERIFICATION (CCV)						
samples (which ever comes first)(every 10 samples for QSM) and at the end of the analytical run?		**Yes**		**Yes**		
b. Were the recoveries for the CCVs within program limits?	%Recovery	**Yes**		**Yes**		
c. Was each CCV uniquely identified (i.e. Standard Number)?		**Yes**		**Yes**		

Additional Comments:

Analytical Run #: 72413

Table 5

8330B Analysis Data Review Checklist

Requirements:	Acceptance Criteria	Analyst		Independent		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
4. BLANKS						
a. Was a method blank (MB) analyzed prior to the analysis of samples?		**Yes**		**Yes**		
b. Was the MB result less than ½ the reporting limit (RL) or 5% of the sample amount (QSM: less than 1/2 the RL and <10% of the sample amount)?		**Yes**		**Yes**		
c. Was a MB prepped and analyzed at a frequency of one per Prep Batch?	Batch ≤20 samples	**Yes**		**Yes**		
5. LABORATORY CONTROL SAMPLE (LCS)						
a. Was a LCS analyzed at a frequency of one per Prep Batch?	Batch ≤20 samples	**Yes**		**Yes**		
b. Were the LCS recoveries in each LCS within the acceptance criteria?	Per Program	**Yes**		**Yes**		
6. MATRIX SPIKES						
a. Was a matrix spiked (MS) sample analyzed at a frequency one per Prep Batch?	Batch ≤20 samples	**Yes**		**Yes**		
b. Were MS recoveries in each MS within the acceptance criteria?	Per Program	**Yes**		**Yes**		
7. MATRIX SPIKE DUPLICATE						
a. Was a duplicate matrix spike sample analyzed at a frequency one per Prep Batch?	Batch <20 samples	**Yes**		**Yes**		
b. Were MSD within the acceptance criteria?	Per Program	**Yes**		**Yes**		
c. Is the relative percent difference (RPD) between a matrix spike (MS) and its duplicate (MSD) within the acceptance criteria?	Per Program QSM: 30% RPD	**Yes**		**Yes**		

Additional Comments:

Analytical Run #: 72413

Table 5

8330B Analysis Data Review Checklist

Requirements:	Acceptance Criteria	Analyst		Independent		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
8. SAMPLES (INCLUDING BLANKS, STANDARDS, AND QC SAMPLES)						
a. Are chromatogram characteristics, including peak shapes and areas, consistent with those of the CCV?		**Yes**		**Yes**		
b. Are surrogate recoveries for all samples, blanks, standards, and QC samples within acceptance criteria?			**No**		**No**	see below
c. Were all samples having analytes detected in amounts exceeding the calibration range diluted and reanalyzed?		**Yes**		**Yes**		
d. Were all samples extracted within holding times and analyzed within 40 days of extracting?	Analysis within 40 days of extraction	**Yes**		**Yes**		
e. Was there a acetonitrile:H2O injection preformed prior to sample analysis?		**Yes**		**Yes**		
f. If any analytes were detected in the soil grinding blanks, were the associated samples B-flagged?	< 1/2 RL	**Yes**		**Yes**		
g. Was the batch soil triplicate RSD within acceptance criteria?	<20%	**Yes**		**Yes**		
9. RECORDS AND REPORTING						
a. Are Run, Prep Batch and Extraction sheets, Summary sheets, Sequence file, initial and rerun raw and process data present in the PDF file?		**Yes**		**Yes**		
b. Are all chromatograms dated and initialed?		**Yes**		**Yes**		
c. Are reported results whose amounts exceeded the acceptance criteria flagged with an appropriate qualifier and, if needed, a NCR completed?		**Yes**		**Yes**		
d. Do all values, dilution factors and qualifiers listed on the raw reports match the LIMS data?		**Yes**		**Yes**		
e. Is the ICAL method referenced on the Raw Data?		**Yes**		**Yes**		

Additional Comments:

Samples 870203, 871184, 871186 had high surrogate recoveries. Project management instructed not to confirm the samples since there were no analyte hits. The surrogate was qualified with an "S" flag.

S EXPLOSIVES NITROGUAN Analytical Run
72412 on 12/30/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	875959						EXPLOSIVES NITROGUAN				
				MBS				35573			
	875960						EXPLOSIVES NITROGUAN				
				LCSS				35573			
82424	870201		11/9/2010 1525		USACE - LOUISVILLE	RAVENNA	EXPLOSIVES NITROGUAN		S	**4**	
		DLASS-014-0001-SO		Designated MS/MSD				35573			
	875962		11/9/2010 1525				EXPLOSIVES NITROGUAN				
		DLASS-014-0001-SO		MSS 870201				35573			
	875963		11/9/2010 1525				EXPLOSIVES NITROGUAN				
		DLASS-014-0001-SO		MSDS 875962				35573			
82424	870203		11/9/2010 1535		USACE - LOUISVILLE	RAVENNA	EXPLOSIVES NITROGUAN		S	**4**	
		DLASS-014-0003-SO						35573			
82458	871184		11/11/2010 0900		USACE - LOUISVILLE	RAVENNA ORE PILES	EXPLOSIVES NITROGUAN		S	**4**	
		DLASS-032-0003-SO						35573			
82458	871186		11/11/2010 1230		USACE - LOUISVILLE	RAVENNA ORE PILES	EXPLOSIVES NITROGUAN		S	**4**	
		DLASS-042-0003-SO						35573			
82458	871197		11/11/2010 1220		USACE - LOUISVILLE	RAVENNA ORE PILES	EXPLOSIVES NITROGUAN		S	**4**	
		DLASS-042-0001-SO						35573			
82458	871198		11/11/2010 0900		USACE - LOUISVILLE	RAVENNA ORE PILES	EXPLOSIVES NITROGUAN		S	**4**	
		DLASS-032-0001-SO						35573			

10 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

PREP WORKSHEET
on 12/30/2010

Prep Batch **35,573**

Prepped By:: RED

Date Prepped: 12/2/2010

Date Entered:

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
	875959	MBS		EXPLOSIVES	SOLID	10.0	5.20			
	875960	LCSS		EXPLOSIVES	SOLID	10.0	5.14			
82424	870201	*		EXPLOSIVES	SOIL	10.0	5.06		N	
	870203			EXPLOSIVES	SOIL	10.0	5.00		N	
82458	871184			EXPLOSIVES	SOIL	10.0	5.01		N	
	871186			EXPLOSIVES	SOIL	10.0	4.94		N	
	871197			EXPLOSIVES	SOIL	10.0	4.97		N	
	871198			EXPLOSIVES	SOIL	10.0	4.94		N	
	875962	MSS	870201	EXPLOSIVES	SOIL	10.0	5.17			
	875963	MSDS	875962	EXPLOSIVES	SOIL	10.0	4.99			

Control Spike/Control Spike Dup Reference Number:_____ Methanol Supplier/Lot #:_____

Notes:_____

Distibution: C:\LIMSREPS\PREPWRKSHT.RPT

Table 6
8330A/8330B Bench Sheet

Explosives Prep Bench Sheet
SOP Reference Number 8330A & 8330B

Method references: 8330A (Explosives) – Water/Soil
8330B (Explosives) – Water/Soil
3535 (SPE) - Water

Test (circle one): Explosives *or* Nitroguanidine

Matrix: (Soil) Groundwater other_____ **Prep Batch Number** 355873

Spike and Surrogate Information:
Spike amount and concentration (Matrix Spikes and LCS): 1.00mL @ 10ug/mL
Spike Reference: Exp P405 9
Surrogate amount and concentration: 1.00mL @ 10ug/mL
Surrogate Reference: exp P 4081

Extraction Information and Reagent Lot #: Balance used Fisher A-200DS
Extraction solvent: Millipore H2O Supplier: — Lot #: —
Dilution solvent: MeOH Supplier Fisher Lot #: 103149
Soil sonication start time/ date: 12/2/2010 13:00 Soil sonication stop time/ date: 12/2/2010 @ 15:00
Extraction by: Reo Date 12/2/2010 Start Time 12:00 End Time 15:45
GPC by: — GPC start time/date — GPC end time/date —
Concentration by: Date

Client	Sample Number	Sample Amt. (g or mL)	Initial Extract Vol.* (mL)	Final Extract Vol. ** (mL)	Comments
				Reo 12/2/2010	Grinding Reo 12/2/2010
Method Blank	MB 875959	5.20	10.0	X 20.0	~~Soxtec~~ Blank
Control Spike	LCS 875960	5.14			Exp4083
Matrix Spike	MS 870201	5.17			
Matrix Spike Dup.	MSD 870201	4.99			
Sample Duplicate	DUP 870201	4.91			
Sample Triplicate	TRIP 870201	5.00			
Reo 12/2/2010 ~~ARA~~ USACE	870201	5.06			
	870203	5.00			
	871184	5.01			
	871186	4.94			
	871197	4.97			
	871198	4.94			

Reo 12/2/2010

*Initial volumes include volume contributed from spiking solutions
**Final soil extract volumes diluted with equivalent volume ~~of DI water or 0.1% formic acid in water solution~~ before analysis.
Footnotes: MeOH Reo 12-2-2010

Table 5

8330B Analysis Data Review Checklist

Analytical Run #: 72412	**Independent Reviewer: JJY**
Sequence Date: 12/16/2010	**Date of Review: 12/17/2010**
Analyst/Data Interpreter: red	**Approval: YES**

Instructions: Complete one checklist per *analytical run* . Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section, and may require the initiation of a Nonconformance Report.

Requirements:	Acceptance Criteria	Analyst Review		Independent Review		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
1. INITIAL CALIBRATION (ICAL)						
a. Was the Explosive initial calibration performed using a minimum of five varying standard concentration levels?	Lowest standard at or near MRL	**Yes**		**Yes**		
b. Is the variation between calibration response factors for all concentration levels <15% RSD, is r^2 >.990, or r > 0.995 for the regression line?		**Yes**		**Yes**		
c. Was each ICAL uniquely identified (i.e. Standard Number)?	RSD<15%, r^2>0.990, or r>0.995	**Yes**		**Yes**		
d. Was an initial calibration blank (ICB) analyzed?		**Yes**		**Yes**		
2. INITIAL CALIBRATION VERIFICATION (ICV)						
a. Was there a second source ICV for all target analytes analyzed after the initial calibration and prior to analysis of any samples?	Second source	**Yes**		**Yes**		
b. Were the recoveries for the ICV between 85-115% (80-120% for QSM).	% Recovery	**Yes**		**Yes**		
c. Was the ICV uniquely identified (i.e. Standard Number)?		**Yes**		**Yes**		
3. CONTINUING CALIBRATION VERIFICATION (CCV)						
samples (which ever comes first)(every 10 samples for QSM) and at the end of the analytical run?		**Yes**		**Yes**		
b. Were the recoveries for the CCVs within program limits?	%Recovery	**Yes**		**Yes**		
c. Was each CCV uniquely identified (i.e. Standard Number)?		**Yes**		**Yes**		

Additional Comments:

Analytical Run #: 72412

Table 5

8330B Analysis Data Review Checklist

Requirements:	Acceptance Criteria	Analyst		Independent		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
4. BLANKS						
a. Was a method blank (MB) analyzed prior to the analysis of samples?		**Yes**		**Yes**		
b. Was the MB result less than ½ the reporting limit (RL) or 5% of the sample amount (QSM: less than 1/2 the RL and <10% of the sample amount)?		**Yes**		**Yes**		
c. Was a MB prepped and analyzed at a frequency of one per Prep Batch?	Batch ≤20 samples	**Yes**		**Yes**		
5. LABORATORY CONTROL SAMPLE (LCS)						
a. Was a LCS analyzed at a frequency of one per Prep Batch?	Batch ≤20 samples	**Yes**		**Yes**		
b. Were the LCS recoveries in each LCS within the acceptance criteria?	Per Program	**Yes**		**Yes**		
6. MATRIX SPIKES						
a. Was a matrix spiked (MS) sample analyzed at a frequency one per Prep Batch?	Batch ≤20 samples	**Yes**		**Yes**		
b. Were MS recoveries in each MS within the acceptance criteria?	Per Program	**Yes**		**Yes**		
7. MATRIX SPIKE DUPLICATE						
a. Was a duplicate matrix spike sample analyzed at a frequency one per Prep Batch?	Batch <20 samples	**Yes**		**Yes**		
b. Were MSD within the acceptance criteria?	Per Program	**Yes**		**Yes**		
c. Is the relative percent difference (RPD) between a matrix spike (MS) and its duplicate (MSD) within the acceptance criteria?	Per Program QSM: 30% RPD	**Yes**		**Yes**		

Additional Comments:

Analytical Run #: 72412

Table 5

8330B Analysis Data Review Checklist

Requirements:	Acceptance Criteria	Analyst		Independent		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
8. SAMPLES (INCLUDING BLANKS, STANDARDS, AND QC SAMPLES)						
a. Are chromatogram characteristics, including peak shapes and areas, consistent with those of the CCV?			**No**		**No**	see below
b. Are surrogate recoveries for all samples, blanks, standards, and QC samples within acceptance criteria?		**Yes**		**Yes**		
c. Were all samples having analytes detected in amounts exceeding the calibration range diluted and reanalyzed?		**Yes**		**Yes**		
d. Were all samples extracted within holding times and analyzed within 40 days of extracting?	Analysis within 40 days of extraction	**Yes**		**Yes**		
e. Was there a acetonitrile:H2O injection preformed prior to sample analysis?		**Yes**		**Yes**		
f. If any analytes were detected in the soil grinding blanks, were the associated samples B-flagged?	< 1/2 RL	**Yes**		**Yes**		
g. Was the batch soil triplicate RSD within acceptance criteria?	<20%	**Yes**		**Yes**		
9. RECORDS AND REPORTING						
a. Are Run, Prep Batch and Extraction sheets, Summary sheets, Sequence file, initial and rerun raw and process data present in the PDF file?		**Yes**		**Yes**		
b. Are all chromatograms dated and initialed?		**Yes**		**Yes**		
c. Are reported results whose amounts exceeded the acceptance criteria flagged with an appropriate qualifier and, if needed, a NCR completed?		**Yes**		**Yes**		
d. Do all values, dilution factors and qualifiers listed on the raw reports match the LIMS data?		**Yes**		**Yes**		
e. Is the ICAL method referenced on the Raw Data?		**Yes**		**Yes**		

Additional Comments:

The nitroguanidine (NQ) peak shapes in the client samples on the primary column analysis (sequence 121610NQ-primary) were irregular. They appeared to have something co-eluting with them, but splitting the contaminant from the NQ peak was not a good option. The NQ peaks on the confirmation column analysis had the correct shape and did not appear to have any co-eluting contamination issues. Therefore, all NQ data was reported from the confirmation column analysis on sequence 121610NQic-confirm.

Also, because of the contamination issues with NQ on the primary column, in most samples, the NQ result on the primary analysis was greater than 40% different than the NQ result on the confirmation analysis. When this happened, NQ was qualified with a "P" flag and both the primary and confirmation values were listed in a separate table that will accompany the data package.

Summary Report

Instrument ID: HPLC 2 (Offline)
Data Path: C:\Instarch\Sequence\HPLC 2\8330A_B\120710expic-primary.seq
User ID: red
Printed Date: Dec 07, 2010 11:18:06

Run Number	Sample ID	Data Filename	Method Filename	Analysis Date	Data Description
1	ACN:0.1%formic acid in H2...	001.dat	120710expic-primary....	Dec 07, 2010 11:02:04	
2	8330 Pt 1 EXP 4112	002.dat	120710expic-primary....	Dec 07, 2010 11:25:17	
3	8330 Pt 2 EXP 4113	003.dat	120710expic-primary....	Dec 07, 2010 11:48:29	
4	8330 Pt 3 EXP 4114	004.dat	120710expic-primary....	Dec 07, 2010 12:11:41	
5	8330 Pt 4 EXP 4115	005.dat	120710expic-primary....	Dec 07, 2010 12:34:51	
6	8330 Pt 5 EXP 4116	006.dat	120710expic-primary....	Dec 07, 2010 12:58:03	
7	8330 Pt 6 EXP 4117	007.dat	120710expic-primary....	Dec 07, 2010 13:21:13	
8	8330 Pt 7 EXP 4118	008.dat	120710expic-primary....	Dec 07, 2010 13:44:22	Reason #3 applies to data...
9	8330 ICV EXP 4119	009.dat	120710expic-primary....	Dec 07, 2010 14:24:49	
10	8330 CCV EXP 4115	010.dat	120710expic-primary....	Dec 07, 2010 14:49:27	
11	8330 MRL EXP 4113	011.dat	120710expic-primary....	Dec 07, 2010 15:12:39	Reason #3 applies to data...
12	8330 MDL EXP 4112	012.dat	120710expic-primary....	Dec 07, 2010 15:35:51	
13	72142,875969,,mbs	013.dat	120710expic-primary....	Dec 07, 2010 15:59:02	
14	72142,875970,,lcss	014.dat	120710expic-primary....	Dec 07, 2010 16:22:14	
15	72142,873646,	015.dat	120710expic-primary....	Dec 07, 2010 16:45:24	
16	72142,875972,,mss	016.dat	120710expic-primary....	Dec 07, 2010 17:08:36	
17	72142,875973,,msds	017.dat	120710expic-primary....	Dec 07, 2010 17:31:48	
18	72142,873647,	018.dat	120710expic-primary....	Dec 07, 2010 17:55:02	
19	72142,873648,	019.dat	120710expic-primary....	Dec 07, 2010 18:18:15	
20	72142,873649,	020.dat	120710expic-primary....	Dec 07, 2010 18:41:28	Reason #3 applies to data...
21	72142,873650,	021.dat	120710expic-primary....	Dec 07, 2010 19:04:39	
22	72142,873651,	022.dat	120710expic-primary....	Dec 07, 2010 19:27:52	
23	8330 MRL EXP 4113	023.dat	120710expic-primary....	Dec 07, 2010 19:51:02	Reason #3 applies to data...
24	8330 MDL EXP 4112	024.dat	120710expic-primary....	Dec 07, 2010 20:14:14	Reason #3 applies to data...
25	8330 CCV EXP 4115	025.dat	120710expic-primary....	Dec 07, 2010 20:37:25	Reason #3 applies to data...
26	72142,873652,	026.dat	120710expic-primary....	Dec 07, 2010 21:00:36	
27	72142,873653,	027.dat	120710expic-primary....	Dec 07, 2010 21:23:46	
28	72142,873654,	028.dat	120710expic-primary....	Dec 07, 2010 21:47:01	
29	72142,873655,	029.dat	120710expic-primary....	Dec 07, 2010 22:10:14	
30	72142,873656,	030.dat	120710expic-primary....	Dec 07, 2010 22:33:27	
31	72142,873657,	031.dat	120710expic-primary....	Dec 07, 2010 22:56:38	
32	72142,873658,	032.dat	120710expic-primary....	Dec 07, 2010 23:19:50	
33	72142,873659,	033.dat	120710expic-primary....	Dec 07, 2010 23:43:00	
34	8330 MRL EXP 4113	034.dat	120710expic-primary....	Dec 08, 2010 00:06:11	An auto-injector error occ...
35	8330 MDL EXP 4112	035.dat	120710expic-primary....	Dec 08, 2010 07:30:29	Reason #3 applies to data...
36	8330 CCV EXP 4115	036.dat	120710expic-primary....	Dec 08, 2010 08:31:49	
37	72142 873649 1:100	037.dat	120710expic-primary....	Dec 08, 2010 08:56:09	
38	8330 MRL EXP 4113	038.dat	120710expic-primary....	Dec 08, 2010 09:19:23	
39	8330 MDL EXP 4112	039.dat	120710expic-primary....	Dec 08, 2010 09:42:36	Reason #3 applies to data...
40	8330 CCV EXP 4115	040.dat	120710expic-primary....	Dec 08, 2010 10:05:47	

Summary Report

Instrument ID: HPLC 2 (Offline)
Data Path: C:\Instarch\Sequence\HPLC 2\8330A_B\121310exp-primary.seq
User ID: red
Printed Date: Dec 14, 2010 09:27:37

Run Number	Sample ID	Data Filename	Method Filename	Analysis Date	Data Description
1	1:1 ACN:0.1%formic acid in...	001.dat	121310exp-primary.met	Dec 14, 2010 09:11:35	
2	8330 CCV EXP 4128	002.dat	121310exp-primary.met	Dec 14, 2010 09:34:48	
3	72413,875951,,mbs	003.dat	121310exp-primary.met	Dec 14, 2010 09:58:00	
4	72413,875952,,lcss	004.dat	121310exp-primary.met	Dec 14, 2010 10:21:12	
5	72413,870201,	005.dat	121310exp-primary.met	Dec 14, 2010 10:44:23	
6	72413,875953,,mss	006.dat	121310exp-primary.met	Dec 14, 2010 11:07:34	
7	72413,875954,,msds	007.dat	121310exp-primary.met	Dec 14, 2010 11:30:45	
8	870201 dup	008.dat	121310exp-primary.met	Dec 14, 2010 11:53:56	
9	870201 trip	009.dat	121310exp-primary.met	Dec 14, 2010 12:17:08	
10	72413,870203,	010.dat	121310exp-primary.met	Dec 14, 2010 12:40:23	
11	72413,871184,	011.dat	121310exp-primary.met	Dec 14, 2010 13:03:36	
12	72413,871186,	012.dat	121310exp-primary.met	Dec 14, 2010 13:26:47	
13	8330 CCV EXP 4128	013.dat	121310exp-primary.met	Dec 14, 2010 13:49:59	
14	72413,871197,	014.dat	121310exp-primary.met	Dec 14, 2010 14:13:11	
15	72413,871198,	015.dat	121310exp-primary.met	Dec 14, 2010 14:36:22	
16	rinse	016.dat	121310exp-primary.met	Dec 14, 2010 14:59:33	
17	72415,877974,,mbs	017.dat	121310exp-primary.met	Dec 14, 2010 15:22:43	
18	72415,877975,,lcss	018.dat	121310exp-primary.met	Dec 14, 2010 15:45:55	
19	72415,870189,	019.dat	121310exp-primary.met	Dec 14, 2010 17:27:00	
20	72415,877976,,mss	020.dat	121310exp-primary.met	Dec 14, 2010 17:50:14	
21	72415,877977,,msds	021.dat	121310exp-primary.met	Dec 14, 2010 18:13:27	
22	870189 dup	022.dat	121310exp-primary.met	Dec 14, 2010 18:36:39	
23	870189 trip	023.dat	121310exp-primary.met	Dec 14, 2010 18:59:50	
24	72415,870194,	024.dat	121310exp-primary.met	Dec 14, 2010 19:23:03	
25	8330 CCV EXP 4128	025.dat	121310exp-primary.met	Dec 14, 2010 19:46:14	
26	72415,870195,	026.dat	121310exp-primary.met	Dec 14, 2010 20:09:24	
27	72415,870212,	027.dat	121310exp-primary.met	Dec 14, 2010 20:32:35	
28	8330 CCV EXP 4128	028.dat	121310exp-primary.met	Dec 14, 2010 20:55:45	Reason #3 applies to data...

Summary Report

Instrument ID: **HPLC 2 (Offline)**
Data Path: **C:\Instarch\Sequence\HPLC 2\NQ\121510NQic-primary.seq**
User ID: **red**
Printed Date: **Dec 15, 2010 15:00:51**

Run Number	Sample ID	Data Filename	Method Filename	Analysis Date	Data Description
1	MeOH:H2O 1:1	001.dat	121510NQic-primary....	Dec 15, 2010 14:36:32	
2	NQ pt. 1 EXP 4131	002.dat	121510NQic-primary....	Dec 15, 2010 14:44:21	
3	NQ pt. 2 EXP 4132	003.dat	121510NQic-primary....	Dec 15, 2010 14:52:07	
4	NQ pt. 3 EXP 4133	004.dat	121510NQic-primary....	Dec 15, 2010 14:59:55	
5	NQ pt. 4 EXP 4134	005.dat	121510NQic-primary....	Dec 15, 2010 15:07:42	
6	NQ pt. 5 EXP 4135	006.dat	121510NQic-primary....	Dec 15, 2010 15:15:31	
7	NQ pt. 6 EXP 4136	007.dat	121510NQic-primary....	Dec 15, 2010 15:23:17	
8	NQ pt. 7 EXP 4137	008.dat	121510NQic-primary....	Dec 15, 2010 15:31:05	
9	NQ ICV EXP 4138	009.dat	121510NQic-primary....	Dec 15, 2010 15:38:53	

Summary Report

Instrument ID: HPLC 2 (Offline)
Data Path: C:\Instarch\Sequence\HPLC 2\NQ\121610NQ-primary.seq
User ID: red
Printed Date: Dec 16, 2010 08:41:32

Run Number	Sample ID	Data Filename	Method Filename	Analysis Date	Data Description
1	MeOH:H2O 1:1	001.dat	121610NQ-primary.met	Dec 16, 2010 08:36:02	
2	NQ CCV EXP 4134	002.dat	121610NQ-primary.met	Dec 16, 2010 08:43:52	
3	72412,875959,,mbs	003.dat	121610NQ-primary.met	Dec 16, 2010 08:51:41	
4	72412,875960,,lcss	004.dat	121610NQ-primary.met	Dec 16, 2010 09:33:53	
5	72412,870201,	005.dat	121610NQ-primary.met	Dec 16, 2010 09:41:40	Reasons #3 and #4 apply ...
6	72412,875962,,mss	006.dat	121610NQ-primary.met	Dec 16, 2010 09:49:28	Reasons #3 and #4 apply ...
7	72412,875963,,msds	007.dat	121610NQ-primary.met	Dec 16, 2010 09:57:15	Reasons #3 and #4 apply ...
8	870201 dup.	008.dat	121610NQ-primary.met	Dec 16, 2010 10:05:02	Reasons #3 and #4 apply ...
9	870201 trip.	009.dat	121610NQ-primary.met	Dec 16, 2010 10:12:48	Reasons #3 and #4 apply ...
10	72412,870203,	010.dat	121610NQ-primary.met	Dec 16, 2010 10:20:36	Reasons #3 and #4 apply ...
11	72412,871184,	011.dat	121610NQ-primary.met	Dec 16, 2010 10:28:23	
12	72412,871186,	012.dat	121610NQ-primary.met	Dec 16, 2010 10:50:22	
13	NQ CCV EXP 4134	013.dat	121610NQ-primary.met	Dec 16, 2010 10:58:11	
14	72412,871197,	014.dat	121610NQ-primary.met	Dec 16, 2010 11:05:59	
15	72412,871198,	015.dat	121610NQ-primary.met	Dec 16, 2010 11:13:47	
16	72414,877978,,mbs	016.dat	121610NQ-primary.met	Dec 16, 2010 11:21:33	
17	72414,877979,,lcss	017.dat	121610NQ-primary.met	Dec 16, 2010 11:29:21	
18	72414,870189,	018.dat	121610NQ-primary.met	Dec 16, 2010 11:37:08	
19	72414,877981,,mss	019.dat	121610NQ-primary.met	Dec 16, 2010 11:44:55	
20	72414,877982,,msds	020.dat	121610NQ-primary.met	Dec 16, 2010 11:52:41	
21	870189 dup	021.dat	121610NQ-primary.met	Dec 16, 2010 12:00:28	
22	870189 trip	022.dat	121610NQ-primary.met	Dec 16, 2010 12:08:19	Reason #4 applies to data...
23	72414,870194,	023.dat	121610NQ-primary.met	Dec 16, 2010 12:16:07	Reasons #3 and #4 apply ...
24	NQ CCV EXP 4134	024.dat	121610NQ-primary.met	Dec 16, 2010 12:23:56	
25	72414,870195,	025.dat	121610NQ-primary.met	Dec 16, 2010 12:31:44	Reasons #3 and #4 apply ...
26	72414,870212,	026.dat	121610NQ-primary.met	Dec 16, 2010 12:39:30	Reason #4 applies to data...
27	72412,871198,	027.dat	121610NQ-primary.met	Dec 16, 2010 12:47:18	Reasons #3 and #4 apply ...
28	NQ CCV EXP 4134	028.dat	121610NQ-primary.met	Dec 16, 2010 13:20:27	

Summary Report

Instrument ID: HPLC 2 (Offline)
Data Path: C:\Instarch\Sequence\HPLC 2\NQ\121610NQic-confirm.seq
User ID: red
Printed Date: Dec 16, 2010 20:01:08

Run Number	Sample ID	Data Filename	Method Filename	Analysis Date	Data Description
1	MeOH:H2O 1:1	001.dat	121610NQic-confirm....	Dec 16, 2010 19:29:18	
2	NQ pt. 1 EXP 4139	002.dat	121610NQic-confirm....	Dec 16, 2010 19:43:37	
3	NQ pt. 2 EXP 4140	003.dat	121610NQic-confirm....	Dec 16, 2010 19:57:54	
4	NQ pt. 3 EXP 4141	004.dat	121610NQic-confirm....	Dec 16, 2010 20:12:11	
5	NQ pt. 4 EXP 4142	005.dat	121610NQic-confirm....	Dec 16, 2010 20:26:29	
6	NQ pt. 5 EXP 4143	006.dat	121610NQic-confirm....	Dec 16, 2010 20:40:46	
7	NQ pt. 6 EXP 4144	007.dat	121610NQic-confirm....	Dec 16, 2010 20:55:04	
8	NQ pt. 7 EXP 4145	008.dat	121610NQic-confirm....	Dec 16, 2010 21:09:21	
9	NQ ICV EXP 4146	009.dat	121610NQic-confirm....	Dec 16, 2010 21:23:39	
10	NQ CCV EXP 4142	010.dat	121610NQic-confirm....	Dec 16, 2010 21:38:00	
11	72412,875959,,mbs	011.dat	121610NQic-confirm....	Dec 16, 2010 21:52:19	
12	72412,875960,,lcss	012.dat	121610NQic-confirm....	Dec 16, 2010 22:06:37	
13	72412,870201,	013.dat	121610NQic-confirm....	Dec 16, 2010 22:20:54	
14	72412,875962,,mss	014.dat	121610NQic-confirm....	Dec 16, 2010 22:35:12	
15	72412,875963,,msds	015.dat	121610NQic-confirm....	Dec 16, 2010 22:49:29	
16	870201 dup.	016.dat	121610NQic-confirm....	Dec 16, 2010 23:03:45	
17	870201 trip.	017.dat	121610NQic-confirm....	Dec 16, 2010 23:18:03	
18	72412,870203,	018.dat	121610NQic-confirm....	Dec 16, 2010 23:32:19	
19	72412,871184,	019.dat	121610NQic-confirm....	Dec 16, 2010 23:46:36	
20	72412,871186,	020.dat	121610NQic-confirm....	Dec 17, 2010 00:00:57	Reason #3 applies to data...
21	NQ CCV EXP 4142	021.dat	121610NQic-confirm....	Dec 17, 2010 00:15:16	
22	72412,871197,	022.dat	121610NQic-confirm....	Dec 17, 2010 00:29:34	Reason #3 applies to data...
23	72412,871198,	023.dat	121610NQic-confirm....	Dec 17, 2010 00:43:51	
24	72414,877978,,mbs	024.dat	121610NQic-confirm....	Dec 17, 2010 00:58:09	
25	72414,877979,,lcss	025.dat	121610NQic-confirm....	Dec 17, 2010 01:12:25	Reason #3 applies to data...
26	72414,870189,	026.dat	121610NQic-confirm....	Dec 17, 2010 01:26:43	
27	72414,877981,,mss	027.dat	121610NQic-confirm....	Dec 17, 2010 01:41:00	Reason #3 applies to data...
28	72414,877982,,msds	028.dat	121610NQic-confirm....	Dec 17, 2010 01:55:16	Reason #3 applies to data...
29	870189 dup	029.dat	121610NQic-confirm....	Dec 17, 2010 02:09:34	
30	870189 trip	030.dat	121610NQic-confirm....	Dec 17, 2010 02:23:54	
31	72414,870194,	031.dat	121610NQic-confirm....	Dec 17, 2010 02:38:13	
32	NQ CCV EXP 4142	032.dat	121610NQic-confirm....	Dec 17, 2010 02:52:30	
33	72414,870195,	033.dat	121610NQic-confirm....	Dec 17, 2010 03:06:48	
34	72414,870212,	034.dat	121610NQic-confirm....	Dec 17, 2010 03:21:05	
35	NQ CCV EXP 4142	035.dat	121610NQic-confirm....	Dec 17, 2010 03:35:23	

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
EXP 3868	NQ Spike (source 1)	Millipore H2O	5-Aug-10 red 5-Feb-11	S2222A 1000 ug/mL S2169A 1000 ug/mL	0.100 0.100	10.00 10.00	10.00 ug/ml 10.00 ug/ml
EXP 3869	NQ intermediate Source 2	Millipore H2O	5-Aug-10 RED 5-Feb-11	S2223A 100 ug/mL S2169A 1000 ug/mL	1.000 0.100	10.00 10.00	10.00 ug/ml 10.00 ug/ml
EXP 3870	NQ soil LCS spike	MeOH lot 101437	5-Aug-10 red 5-Sep-10	S2222A 1000 ug/mL S2169A 1000 ug/mL	0.500 0.500	25.00 25.00	20.00 ug/ml 20.00 ug/mL
EXP 3871	NQ soil LCS	clean soil matrix	5-Aug-10 RED 5-Sep-10	EXP 3870 20 ug/mL	25.000	250 g	2.00 mg/kg

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
EXP 3872	NQ Linearity PT 1	MeOH:H2O (1:1) lot 095586	5-Aug-10 RED 6-Aug-10	EXP 3868 10 ug/mL	~~0.002~~ 0.004	1.0	~~0.02~~ 0.04 ug/ml
EXP 3873	NQ Linearity PT 2			EXP 3868 10 ug/mL	~~0.010~~ 0.020	1.0	~~0.10~~ 0.08 ug/ml
EXP 3874	NQ Linearity PT 3			EXP 3868 10 ug/mL	0.020	1.0	0.20 ug/ml
EXP 3875	NQ Linearity PT 4 (CCV)			EXP 3868 10 ug/mL	0.250	5.0	0.50 ug/ml
EXP 3876	NQ Linearity PT 5			EXP 3868 10 ug/mL	0.100	1.0	1.00 ug/ml
EXP 3877	NQ Linearity PT 6			EXP 3868 10 ug/mL	0.200	1.0	2.00 ug/ml
EXP 3878	NQ Linearity PT 7			EXP 3868 10 ug/mL	0.250	1.0	2.50 ug/ml
EXP 3879	NQ ICV (2nd Source)	MeOH:H2O (1:1)	05-Aug-10 RED 06-Aug-10	EXP 3869 10 ug/mL	0.050	1.0	0.50 ug/ml

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
EXP 3880	8330B LCS Spike	MeCl2 lot J24J01	5-Aug-10 red 5-Sep-10	S2092A 1000 ug/mL S2112B 1000 ug/mL S2169A 1000 ug/mL S2134B 1000 ug/mL S2156A 1000 ug/mL	0.500 0.500 0.500 1.000 1.000	25.00 25.00 25.00 25.00 25.00	20.00 ug/ml 20.00 ug/ml 20.00 ug/ml 40.00 ug/ml 40.00 ug/ml
EXP 3881	8330B Soil LCS/IDC	clean soil matrix	5-Aug-10 red 5-Sep-10	EXP 3879 20 ug/mL 20 ug/mL 20 ug/mL 40 ug/mL 40 ug/mL	25 mL Spike Volume	250 g soil mass	2.00 mg/kg 2.00 mg/kg 2.00 mg/kg 4.00 mg/kg 4.00 mg/kg

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
EXP 3882	8330 Spike Source 1	ACN lot lot H21S02	5-Aug-10 red 14-Oct-10	S2092A 1000 ug/mL S2112B 1000 ug/mL S2157B 1000 ug/mL S2156B 1000 ug/mL S2169A 1000 ug/mL	0.100 0.100 0.400 0.400 0.100	10.00 10.00 10.00 10.00 10.00	10.00 ug/ml 10.00 ug/ml 40.00 ug/ml 40.00 ug/ml 10.00 ug/ml
EXP 3883	8330 Spike Source 2	ACN lot lot H21S02	5-Aug-10 red 2-Nov-10	S2191B 100 ug/mL S2192A 100 ug/mL S2210A 100 ug/mL S2190A 1000 ug/mL S2036 1000 ug/mL S2169A 1000 ug/mL	1.000 1.000 1.000 0.400 0.400 0.100	10.00 10.00 10.00 10.00 10.00 10.00	10.00 ug/ml 10.00 ug/ml 10.00 ug/ml 40.00 ug/ml 40.00 ug/ml 10.00 ug/ml

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Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID/analyte group & Concentration			Standard Volume (ml)	Final Volume (ml)	Final Concentration	
EXP 4045	8330 Pt 1 (MDL)	1:1 ACN:0.1% formic acid in water ACN lot H21S02	29-Oct-10 red 30-Oct-10	EXP 4010/8330mix	10	ug/mL	0.030	5.00	0.06	ug/ml
				EXP 4010/NG-PETN	40	ug/mL	0.030	5.00	0.24	ug/ml
EXP 4046	8330 Pt 2 (MRL)			EXP 4010/8330mix	10	ug/mL	0.050	5.00	0.10	ug/ml
				EXP 4010/NG-PETN	40	ug/mL	0.050	5.00	0.40	ug/ml
EXP 4047	8330 Pt 4 (CCV)			EXP 4010/8330mix	10	ug/mL	0.250	5.00	0.50	ug/ml
				EXP 4010/NG-PETN	40	ug/mL	0.250	5.00	2.00	ug/ml

Rec'd 10/29/10

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID/analyte group & Concentration			Standard Volume (ml)	Final Volume (ml)	Final Concentration	
EXP 4048	8330 Pt 1 (MDL)	1:1 ACN:0.1% formic acid in water ACN lot H21S02	30-Oct-10 red 31-Oct-10	EXP 4010/8330mix	10	ug/mL	0.030	5.00	0.06	ug/ml
				EXP 4010/NG-PETN	40	ug/mL	0.030	5.00	0.24	ug/ml
EXP 4049	8330 Pt 2 (MRL)			EXP 4010/8330mix	10	ug/mL	0.050	5.00	0.10	ug/ml
				EXP 4010/NG-PETN	40	ug/mL	0.050	5.00	0.40	ug/ml
EXP 4050	8330 Pt 4 (CCV)			EXP 4010/8330mix	10	ug/mL	0.250	5.00	0.50	ug/ml
				EXP 4010/NG-PETN	40	ug/mL	0.250	5.00	2.00	ug/ml

Rec'd 10/30/10

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration			Standard Volume (ml)	Final Volume (ml)	Final Concentration	
EXP 4051	8330 Surrogate	ACN lot H21S02	2-Nov-10 red 2-May-11	S2255B	1000	ug/mL	1.000	100.00	10.00	ug/ml

Rec'd 11/2/10

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID/analyte group & Concentration			Standard Volume (ml)	Final Volume (ml)	Final Concentration	
EXP 4052	8330 Pt 1 (MDL)	1:1 ACN:0.1% formic acid in water ACN lot H21S02	4-Nov-10 red 5-Nov-10	EXP 4010/8330mix	10	ug/mL	0.030	5.00	0.06	ug/ml
				EXP 4010/NG-PETN	40	ug/mL	0.030	5.00	0.24	ug/ml
EXP 4053	8330 Pt 2 (MRL)			EXP 4010/8330mix	10	ug/mL	0.050	5.00	0.10	ug/ml
				EXP 4010/NG-PETN	40	ug/mL	0.050	5.00	0.40	ug/ml
EXP 4054	8330 Pt 4 (CCV)			EXP 4010/8330mix	10	ug/mL	0.250	5.00	0.50	ug/ml
				EXP 4010/NG-PETN	40	ug/mL	0.250	5.00	2.00	ug/ml

Rec'd 11/4/2010

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration			Standard Volume (ml)	Final Volume (ml)	Final Concentration	
EXP 4055	NQ CCV	MeOH:H2O (1:1)	9-Nov-10 RED 10-Nov-10	EXP 3943	10	ug/mL	0.250	5.00	0.50	ug/ml

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID/analyte group & Concentration			Standard Volume (ml)	Final Volume (ml)	Final Concentration	
EXP 4056	8330 Pt 1 (MDL)	1:1 ACN:0.1% formic acid in water ACN lot H21S02	9-Nov-10 red 10-Nov-10	EXP 4010/8330mix	10	ug/mL	0.030	5.00	0.06	ug/ml
				EXP 4010/NG-PETN	40	ug/mL	0.030	5.00	0.24	ug/ml
EXP 4057	8330 Pt 2 (MRL)			EXP 4010/8330mix	10	ug/mL	0.050	5.00	0.10	ug/ml
				EXP 4010/NG-PETN	40	ug/mL	0.050	5.00	0.40	ug/ml
EXP 4058	8330 Pt 4 (CCV)			EXP 4010/8330mix	10	ug/mL	0.250	5.00	0.50	ug/ml
				EXP 4010/NG-PETN	40	ug/mL	0.250	5.00	2.00	ug/ml

Rec'd 11/9/2010

Exp 4059 NQ spike Source 1: 0.250 mL S2222B @ 1000 ug/mL + 0.250 mL S2255C @ 1000 ug/mL MeOH ACN:H2O; 1:1 to a final volume of 25 mL and final conc. of ~~0.50~~ 10 ug/mL each. Prepared on 11/16/10 by PEW Expires 5/16/11. Rec'd 11/16/10

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Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration			Standard Volume (ml)	Final Volume (ml)	Final Concentration	
EXP 4060	8330 Spike	ACN lot	18-Nov-10 red 16-May-11	S2125B	1000	ug/mL	0.100	10.00	10.00	ug/ml
				S2126B	1000	ug/mL	0.100	10.00	10.00	ug/ml
	Source 2			S2210B	100	ug/mL	1.000	10.00	10.00	ug/ml
				S2190A	1000	ug/mL	0.400	10.00	40.00	ug/ml
				S2089A	1000	ug/mL	0.400	10.00	40.00	ug/ml
		lot H21S02		S2255C	1000	ug/mL	0.100	10.00	10.00	ug/ml

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date			STD Parent ID & Concentration			Standard Volume (ml)	Final Volume (ml)	Final Concentration	
EXP 4061	8330B LCS Spike	MeCl2 lot J21S09	18-Nov-10	red	18-Dec-10	S2092C	1000	ug/mL	0.500	25.00	20.00	ug/ml
						S1788B	1000	ug/mL	0.500	25.00	20.00	ug/ml
						S2245C/S2255C	1000	ug/mL	0.500	25.00	20.00	ug/ml
						S2258A/B	1000	ug/mL	1.000	25.00	40.00	ug/ml
						S2260A/B	1000	ug/mL	1.000	25.00	40.00	ug/ml
EXP 4062	8330B Soil LCS	clean soil matrix	18-Nov-10	red	18-Dec-10	EXP 4061	20	ug/mL	25 mL	250 g	2.00	mg/kg
							20	ug/mL	Spike	soil	2.00	mg/kg
							20	ug/mL	Volume	mass	2.00	mg/kg
							40	ug/mL			4.00	mg/kg
							40	ug/mL			4.00	mg/kg

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID/analyte group & Concentration			Standard Volume (ml)	Final Volume (ml)	Final Concentration	
EXP 4063	8330 Pt 1 (MDL)	1:1 ACN:0.1% formic acid in water	18-Nov-10 red 19-Nov-10	EXP 4010/8330mix	10	ug/mL	0.030	5.00	0.06	ug/ml
				EXP 4010/NG-PETN	40	ug/mL	0.030	5.00	0.24	ug/ml
EXP 4064	8330 Pt 2 (MRL)			EXP 4010/8330mix	10	ug/mL	0.050	5.00	0.10	ug/ml
				EXP 4010/NG-PETN	40	ug/mL	0.050	5.00	0.40	ug/ml
EXP 4065	8330 Pt 3			EXP 4010/8330mix	10	ug/mL	0.025	1.00	0.25	ug/ml
				EXP 4010/NG-PETN	40	ug/mL	0.025	1.00	1.00	ug/ml
EXP 4066	8330 Pt 4 (CCV)	ACN lot H21S02		EXP 4010/8330mix	10	ug/mL	0.250	5.00	0.50	ug/ml
				EXP 4010/NG-PETN	40	ug/mL	0.250	5.00	2.00	ug/ml
EXP 4067	8330 Pt 5			EXP 3942/8330mix	10	ug/mL	0.100	1.00	1.00	ug/ml
				EXP 3942/NG-PETN	40	ug/mL	0.100	1.00	4.00	ug/ml
EXP 4068	8330 Pt 6			EXP 3942/8330mix	10	ug/mL	0.200	1.00	2.00	ug/ml
				EXP 3942/NG-PETN	40	ug/mL	0.200	1.00	8.00	ug/ml
EXP 4069	8330 Pt 7			EXP 3942/8330mix	10	ug/mL	0.300	1.00	3.00	ug/ml
				EXP 3942/NG-PETN	40	ug/mL	0.300	1.00	12.00	ug/ml
EXP 4070	8330 ICV (second source)			EXP 3883/8330mix	10	ug/mL	0.050	1.00	0.50	ug/ml
				EXP 3883/NG-PETN	40	ug/mL	0.050	1.00	2.00	ug/ml

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID/analyte group & Concentration			Standard Volume (ml)	Final Volume (ml)	Final Concentration	
EXP 4071	8330 Pt 1 (MDL)	1:1 ACN:0.1% formic acid in water	23-Nov-10 red 24-Nov-10	EXP 4010/8330mix	10	ug/mL	0.030	5.00	0.06	ug/ml
				EXP 4010/NG-PETN	40	ug/mL	0.030	5.00	0.24	ug/ml
EXP 4072	8330 Pt 2 (MRL)			EXP 4010/8330mix	10	ug/mL	0.050	5.00	0.10	ug/ml
				EXP 4010/NG-PETN	40	ug/mL	0.050	5.00	0.40	ug/ml
EXP 4073	8330 Pt 3			EXP 4010/8330mix	10	ug/mL	0.025	1.00	0.25	ug/ml
				EXP 4010/NG-PETN	40	ug/mL	0.025	1.00	1.00	ug/ml
EXP 4074	8330 Pt 4 (CCV)	ACN lot H21S02		EXP 4010/8330mix	10	ug/mL	0.250	5.00	0.50	ug/ml
				EXP 4010/NG-PETN	40	ug/mL	0.250	5.00	2.00	ug/ml
EXP 4075	8330 Pt 5			EXP 4010/8330mix	10	ug/mL	0.100	1.00	1.00	ug/ml
				EXP 4010/NG-PETN	40	ug/mL	0.100	1.00	4.00	ug/ml
EXP 4076	8330 Pt 6			EXP 4010/8330mix	10	ug/mL	0.200	1.00	2.00	ug/ml
				EXP 4010/NG-PETN	40	ug/mL	0.200	1.00	8.00	ug/ml
EXP 4077	8330 Pt 7			EXP 4010/8330mix	10	ug/mL	0.300	1.00	3.00	ug/ml
				EXP 4010/NG-PETN	40	ug/mL	0.300	1.00	12.00	ug/ml
EXP 4078	8330 ICV (second source)			EXP 4060/8330mix	10	ug/mL	0.050	1.00	0.50	ug/ml
				EXP 4060/NG-PETN	40	ug/mL	0.050	1.00	2.00	ug/ml

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PROJECT _____ Continued From Page _____

EXP 4075 8330 Surrogate 0.500 mL S2255C @ 1000 ug/mL in MeOH to a final volume of 50.0 mL at final conc. of 10 ug/mL. Prepared by RED on 11/23/2010. Expires 5/16/2011.

Reviewed 11/23/2010

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
EXP 4080	8330 Spike	ACN lot H21S02	25-Nov-10 red 16-Apr-11	S2092C 1000 ug/mL S1788B 1000 ug/mL S2258B 1000 ug/mL S2260B 1000 ug/mL S2255C/D 1000 ug/mL	0.250 0.250 1.000 1.000 0.250	25.00 25.00 25.00 25.00 25.00	10.00 ug/ml 10.00 ug/ml 40.00 ug/ml 40.00 ug/ml 10.00 ug/ml

Reviewed 11/25/10

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
EXP 4081	8330 Surrogate	ACN lot H21S02	25-Nov-10 red 25-May-11	S2255D/E 1000 ug/mL	1.000	100.00	10.00 ug/ml

Reviewed 11/25/10

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
EXP 4082	NQ soil LCS spike	ACN lot H21S02	25-Nov-10 red 16-May-11	S2222B 1000 ug/mL S2255E 1000 ug/mL	0.500 0.500	25.00 25.00	20.00 ug/ml 20.00 ug/ml
EXP 4083	NQ soil LCS	clean soil matrix	25-Nov-10 RED 25-Dec-10	EXP 4082 20 ug/mL 20 ug/mL	25.000 25.000	250 g 250 g	2.00 mg/kg 2.00 mg/kg

Reviewed 11/25/10

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID/analyte group & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
EXP 4084	8330 Pt 1 (MDL)	1:1 ACN:0.1% formic acid in water ACN lot H21S02	25-Nov-10 red 26-Nov-10	EXP 4080/8330mix 10 ug/mL EXP 4080/NG-PETN 40 ug/mL	0.060 0.060	10.00 10.00	0.06 ug/ml 0.24 ug/ml
EXP 4085	8330 Pt 2 (MRL)			EXP 4080/8330mix 10 ug/mL EXP 4080/NG-PETN 40 ug/mL	0.100 0.100	10.00 10.00	0.10 ug/ml 0.40 ug/ml
EXP 4086	8330 Pt 4 (CCV)			EXP 4080/8330mix 10 ug/mL EXP 4080/NG-PETN 40 ug/mL	0.500 0.500	10.00 10.00	0.50 ug/ml 2.00 ug/ml

Reviewed 11/25/10

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID/analyte group & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
EXP 4087	8330 Pt 1 (MDL)	1:1 ACN:0.1% formic acid in water ACN lot H21S02	30-Nov-10 red 1-Dec-10	EXP 4080/8330mix 10 ug/mL EXP 4080/NG-PETN 40 ug/mL	0.030 0.030	5.00 5.00	0.06 ug/ml 0.24 ug/ml
EXP 4088	8330 Pt 2 (MRL)			EXP 4080/8330mix 10 ug/mL EXP 4080/NG-PETN 40 ug/mL	0.050 0.050	5.00 5.00	0.10 ug/ml 0.40 ug/ml
EXP 4089	8330 Pt 3			EXP 4080/8330mix 10 ug/mL EXP 4080/NG-PETN 40 ug/mL	0.025 0.025	1.00 1.00	0.25 ug/ml 1.00 ug/ml
EXP 4090	8330 Pt 4 (CCV)			EXP 4080/8330mix 10 ug/mL EXP 4080/NG-PETN 40 ug/mL	0.250 0.250	5.00 5.00	0.50 ug/ml 2.00 ug/ml
EXP 4091	8330 Pt 5			EXP 4080/8330mix 10 ug/mL EXP 4080/NG-PETN 40 ug/mL	0.100 0.100	1.00 1.00	1.00 ug/ml 4.00 ug/ml
EXP 4092	8330 Pt 6			EXP 4080/8330mix 10 ug/mL EXP 4080/NG-PETN 40 ug/mL	0.200 0.200	1.00 1.00	2.00 ug/ml 8.00 ug/ml
EXP 4093	8330 Pt 7			EXP 4080/8330mix 10 ug/mL EXP 4080/NG-PETN 40 ug/mL	0.300 0.300	1.00 1.00	3.00 ug/ml 12.00 ug/ml
EXP 4094	8330 ICV (second source)			EXP 4060/8330mix 10 ug/mL EXP 4060/NG-PETN 40 ug/mL	0.050 0.050	1.00 1.00	0.50 ug/ml 2.00 ug/ml

Reviewed 11/30/10

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Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
EXP 4095	NQ Linearity PT 1	1:1	1-Dec-10 RED 2-Dec-10	EXP 4059 10 ug/mL	0.020	5.0	0.04 ug/ml
EXP 4096	NQ Linearity PT 2	MeOH:H2O		EXP 4059 10 ug/mL	0.040	5.0	0.08 ug/ml
EXP 4097	NQ Linearity PT 3	lot 103149		EXP 4059 10 ug/mL	0.020	1.0	0.20 ug/ml
EXP 4098	NQ Linearity PT 4			EXP 4059 10 ug/mL	0.250	5.0	0.50 ug/ml
EXP 4099	NQ Linearity PT 5			EXP 4059 10 ug/mL	0.100	1.0	1.00 ug/ml
EXP 4100	NQ Linearity PT 6			EXP 4059 10 ug/mL	0.200	1.0	2.00 ug/ml
EXP 4101	NQ Linearity PT 7			EXP 4059 10 ug/mL	0.250	1.0	2.50 ug/ml
EXP 4102	NQ ICV (2nd Source)	MeOH:H2O (1:1)	01-Dec-10 RED 02-Dec-10	EXP 3869 10 ug/mL	0.050	1.0	0.50 ug/ml

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID/analyte group & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
EXP 4103	8330 Pt 1 (MDL)	1:1 ACN:0.1% formic acid in water ACN lot H21S02	2-Dec-10 red 3-Dec-10	EXP 4080/8330mix 10 ug/mL EXP 4080/NG-PETN 40 ug/mL	0.030 0.030	5.00 5.00	0.06 ug/ml 0.24 ug/ml
EXP 4104	8330 Pt 2 (MRL)			EXP 4080/8330mix 10 ug/mL EXP 4080/NG-PETN 40 ug/mL	0.050 0.050	5.00 5.00	0.10 ug/ml 0.40 ug/ml
EXP 4105	8330 Pt 4 (CCV)			EXP 4080/8330mix 10 ug/mL EXP 4080/NG-PETN 40 ug/mL	0.250 0.250	5.00 5.00	0.50 ug/ml 2.00 ug/ml

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID/analyte group & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
EXP 4106	8330 Pt 1 (MDL)	1:1 ACN:0.1% formic acid in water ACN lot H21S02	3-Dec-10 red 4-Dec-10	EXP 4080/8330mix 10 ug/mL EXP 4080/NG-PETN 40 ug/mL	0.030 0.030	5.00 5.00	0.06 ug/ml 0.24 ug/ml
EXP 4107	8330 Pt 2 (MRL)			EXP 4080/8330mix 10 ug/mL EXP 4080/NG-PETN 40 ug/mL	0.050 0.050	5.00 5.00	0.10 ug/ml 0.40 ug/ml
EXP 4108	8330 Pt 4 (CCV)			EXP 4080/8330mix 10 ug/mL EXP 4080/NG-PETN 40 ug/mL	0.250 0.250	5.00 5.00	0.50 ug/ml 2.00 ug/ml

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID/analyte group & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
EXP 4109	8330 Pt 1 (MDL)	1:1 ACN:0.1% formic acid in water ACN lot H21S02	6-Dec-10 red 7-Dec-10	EXP 4080/8330mix 10 ug/mL EXP 4080/NG-PETN 40 ug/mL	0.030 0.030	5.00 5.00	0.06 ug/ml 0.24 ug/ml
EXP 4110	8330 Pt 2 (MRL)			EXP 4080/8330mix 10 ug/mL EXP 4080/NG-PETN 40 ug/mL	0.050 0.050	5.00 5.00	0.10 ug/ml 0.40 ug/ml
EXP 4111	8330 Pt 4 (CCV)			EXP 4080/8330mix 10 ug/mL EXP 4080/NG-PETN 40 ug/mL	0.250 0.250	5.00 5.00	0.50 ug/ml 2.00 ug/ml

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID/analyte group & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
EXP 4112	8330 Pt 1 (MDL)	1:1 ACN:0.1% formic acid in water ACN lot H21S02	7-Dec-10 red 8-Dec-10	EXP 4080/8330mix 10 ug/mL EXP 4080/NG-PETN 40 ug/mL	0.030 0.030	5.00 5.00	0.06 ug/ml 0.24 ug/ml
EXP 4113	8330 Pt 2 (MRL)			EXP 4080/8330mix 10 ug/mL EXP 4080/NG-PETN 40 ug/mL	0.050 0.050	5.00 5.00	0.10 ug/ml 0.40 ug/ml
EXP 4114	8330 Pt 3			EXP 4080/8330mix 10 ug/mL EXP 4080/NG-PETN 40 ug/mL	0.025 0.025	1.00 1.00	0.25 ug/ml 1.00 ug/ml
EXP 4115	8330 Pt 4 (CCV)			EXP 4080/8330mix 10 ug/mL EXP 4080/NG-PETN 40 ug/mL	0.250 0.250	5.00 5.00	0.50 ug/ml 2.00 ug/ml
EXP 4116	8330 Pt 5			EXP 4080/8330mix 10 ug/mL EXP 4080/NG-PETN 40 ug/mL	0.100 0.100	1.00 1.00	1.00 ug/ml 4.00 ug/ml
EXP 4117	8330 Pt 6			EXP 4080/8330mix 10 ug/mL EXP 4080/NG-PETN 40 ug/mL	0.200 0.200	1.00 1.00	2.00 ug/ml 8.00 ug/ml
EXP 4118	8330 Pt 7			EXP 4080/8330mix 10 ug/mL EXP 4080/NG-PETN 40 ug/mL	0.300 0.300	1.00 1.00	3.00 ug/ml 12.00 ug/ml
EXP 4119	8330 ICV (second source)			EXP 4060/8330mix 10 ug/mL EXP 4060/NG-PETN 40 ug/mL	0.050 0.050	1.00 1.00	0.50 ug/ml 2.00 ug/ml

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Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID/analyte group & Concentration			Standard Volume (ml)	Final Volume (ml)	Final Concentration	
EXP 4120	8330 Pt 1 (MDL)	1:1 ACN:0.1% formic acid in water	9-Dec-10 red 10-Dec-10	EXP 4080/8330mix	10	ug/mL	0.030	5.00	0.06	ug/ml
				EXP 4080/NG-PETN	40	ug/mL	0.030	5.00	0.24	ug/ml
EXP 4121	8330 Pt 2 (MRL)			EXP 4080/8330mix	10	ug/mL	0.050	5.00	0.10	ug/ml
				EXP 4080/NG-PETN	40	ug/mL	0.050	5.00	0.40	ug/ml
EXP 4122	8330 Pt 3			EXP 4080/8330mix	10	ug/mL	0.025	1.00	0.25	ug/ml
				EXP 4080/NG-PETN	40	ug/mL	0.025	1.00	1.00	ug/ml
EXP 4123	8330 Pt 4 (CCV)	ACN lot H21S02		EXP 4080/8330mix	10	ug/mL	0.250	5.00	0.50	ug/ml
				EXP 4080/NG-PETN	40	ug/mL	0.250	5.00	2.00	ug/ml
EXP 4124	8330 Pt 5			EXP 4080/8330mix	10	ug/mL	0.100	1.00	1.00	ug/ml
				EXP 4080/NG-PETN	40	ug/mL	0.100	1.00	4.00	ug/ml
EXP 4125	8330 Pt 6			EXP 4080/8330mix	10	ug/mL	0.200	1.00	2.00	ug/ml
				EXP 4080/NG-PETN	40	ug/mL	0.200	1.00	8.00	ug/ml
EXP 4126	8330 Pt 7			EXP 4080/8330mix	10	ug/mL	0.300	1.00	3.00	ug/ml
				EXP 4080/NG-PETN	40	ug/mL	0.300	1.00	12.00	ug/ml
EXP 4127	8330 ICV (second source)			EXP 4060/8330mix	10	ug/mL	0.050	1.00	0.50	ug/ml
				EXP 4060/NG-PETN	40	ug/mL	0.050	1.00	2.00	ug/ml

RevM 12/9/10

EXP4128 8330 CCV 0.250 mL exp4080 into 5mL total volume 1:1 ACN : 0.1% formic acid in H_2O. Final concentration is ~~0.50/2.00~~ 0.50/2.00 ug/mL. Prepared on 12/13/2010 by RED. Expires 12/14/2010. MD 12/13/10

Rev12/13/2010

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration			Standard Volume (ml)	Final Volume (ml)	Final Concentration	
EXP 4129	8330 Spike	ACN lot H21S02	14-Dec-10 red 16-Apr-11	S2092C/S2021C	1000	ug/mL	0.250	25.00	10.00	ug/ml
				S1788B	1000	ug/mL	0.250	25.00	10.00	ug/ml
				S2258C	1000	ug/mL	1.000	25.00	40.00	ug/ml
				S2260c	1000	ug/mL	1.000	25.00	40.00	ug/ml
				S2255E	1000	ug/mL	0.250	25.00	10.00	ug/ml
Standard Number	**Standard Description**	**Solvent/Lot**	**Prep Date/Analyst/Exp. Date**	**STD Parent ID & Concentration**			**Standard Volume (ml)**	**Final Volume (ml)**	**Final Concentration**	
EXP 4130	8330 Surrogate	ACN lot H21S02	14-Dec-10 red 16-May-11	S2255E/S2293A	1000	ug/mL	1.000	100.00	10.00	ug/ml

RevM 12/14/2010

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration			Standard Volume (ml)	Final Volume (ml)	Final Concentration	
EXP 4131	NQ Linearity PT 1	1:1 MeOH:H2O lot 103149	15-Dec-10 RED 16-Dec-10	EXP 4059	10	ug/mL	0.004	1.0	0.04	ug/ml
EXP 4132	NQ Linearity PT 2			EXP 4059	10	ug/mL	0.008	1.0	0.08	ug/ml
EXP 4133	NQ Linearity PT 3			EXP 4059	10	ug/mL	0.020	1.0	0.20	ug/ml
EXP 4134	NQ Linearity PT 4			EXP 4059	10	ug/mL	0.500	10.0	0.50	ug/ml
EXP 4135	NQ Linearity PT 5			EXP 4059	10	ug/mL	0.100	1.0	1.00	ug/ml
EXP 4136	NQ Linearity PT 6			EXP 4059	10	ug/mL	0.200	1.0	2.00	ug/ml
EXP 4137	NQ Linearity PT 7			EXP 4059	10	ug/mL	0.250	1.0	2.50	ug/ml
EXP 4138	NQ ICV (2nd Source)	MeOH:H2O (1:1)	15-Dec-10 RED 16-Dec-10	EXP 3869	10	ug/mL	0.050	1.0	0.50	ug/ml

RevM 12/15/2010

Rev 12-15-2010

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Signed	Date	Signed	Date

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
EXP 4139	NQ Linearity PT 1	1:1	16-Dec-10 RED 17-Dec-10	EXP 4059 10 ug/mL	0.004	1.0	0.04 ug/ml
EXP 4140	NQ Linearity PT 2	MeOH:H2O		EXP 4059 10 ug/mL	0.008	1.0	0.08 ug/ml
EXP 4141	NQ Linearity PT 3	lot 103149		EXP 4059 10 ug/mL	0.020	1.0	0.20 ug/ml
EXP 4142	NQ Linearity PT 4			EXP 4059 10 ug/mL	0.250	5.0	0.50 ug/ml
EXP 4143	NQ Linearity PT 5			EXP 4059 10 ug/mL	0.100	1.0	1.00 ug/ml
EXP 4144	NQ Linearity PT 6			EXP 4059 10 ug/mL	0.200	1.0	2.00 ug/ml
EXP 4145	NQ Linearity PT 7			EXP 4059 10 ug/mL	0.250	1.0	2.50 ug/ml
EXP 4146	NQ ICV (2nd Source)	MeOH:H2O (1:1)	16-Dec-10 RED 17-Dec-10	EXP 3869 10 ug/mL	0.050	1.0	0.50 ug/ml

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
EXP 4147	NQ CCV	MeOH:H2O (1:1)	18-Dec-10 RED 19-Dec-10	EXP 4059 10 ug/mL	0.250	5.00	0.50 ug/ml

EXP 4148 8330 CCV 0.250 mL EXP 4129 @ 10/40 ug/mL into 1:1 ACN:0.1% formic acid in H2O to a final volume of 5.00 mL at final concentration of 0.5/20 ug/mL Prepared on 12/19/2010 by RED. Expires 12/20/2010.

EXP 4149 8330 CCV 0.250 mL EXP 4129 @ 10/40 ug/mL into 1:1 ACN:0.1% formic acid in H2O to a final volume of 5.00 mL at final conc. of 0.5/20 ug/mL Prepared on 12/20/2010 by RED. Expires 12/21/2010.

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
EXP 4150	8330 Spike	ACN lot	21-Dec-10 red 16-Apr-11	S2092C/S2021C 1000 ug/mL	0.100	10.00	10.00 ug/ml
				S1788B 1000 ug/mL	0.100	10.00	10.00 ug/ml
				S2258C/2285 1000 ug/mL	0.400	10.00	40.00 ug/ml
				S2260c/2286 1000 ug/mL	0.400	10.00	40.00 ug/ml
		lot H21S02		S2293A 1000 ug/mL	0.100	10.00	10.00 ug/ml

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
EXP 4151	8330B LOD/LOQ Spike 150/600 ug/kg	MeCl2 lot J41E11	21-Dec-10 red 21-Jan-11	EXP 4150 10 ug/mL	1.500	10.00	1.50 ug/ml
				40 ug/mL	1.500	10.00	6.00 ug/ml
EXP 4152	8330B Soil LOD/LOQ 150/600 ug/kg	clean soil matrix	21-Dec-10 red 21-Jan-11	EXP 4151 1.5 ug/mL	10 mL	100 g	150.00 ug/kg
				6 ug/mL	Spike	soil	600.00 ug/kg

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Signed _____ Date _____ Signed _____ Date _____

S SVOC 8270 SOIL Analytical Run
72179 on 1/4/2011

Date Analyzed: _____ JJY 01/04/11 Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME		QC TYPE (Parent Sample)		CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	874148								SVOC 8270 QSM				
					MBS					35517			
	874149								SVOC 8270 QSM				
					LCSS					35517			
82424	870201		11/9/2010	1525			USACE - LOUISVILLE	RAVENNA	SVOC 8270 QSM		S	**4**	
		DLASS-014-0001-SO			Designated MS/MSD					35517			
	874146		11/9/2010	1525					SVOC 8270 QSM				
		DLASS-014-0001-SO			MSS	870201				35517			
	874147		11/9/2010	1525					SVOC 8270 QSM				
		DLASS-014-0001-SO			MSDS	874146				35517			
82424	870203		11/9/2010	1535			USACE - LOUISVILLE	RAVENNA	SVOC 8270 QSM		S	**4**	
		DLASS-014-0003-SO								35517			
82458	871184		11/11/2010	0900			USACE - LOUISVILLE	RAVENNA ORE PILES	SVOC 8270 QSM		S	**4**	
		DLASS-032-0003-SO								35517			
82458	871186		11/11/2010	1230			USACE - LOUISVILLE	RAVENNA ORE PILES	SVOC 8270 QSM		S	**4**	
		DLASS-042-0003-SO								35517			
82458	871197		11/11/2010	1220			USACE - LOUISVILLE	RAVENNA ORE PILES	SVOC 8270 QSM		S	**4**	
		DLASS-042-0001-SO								35517			
82458	871198		11/11/2010	0900			USACE - LOUISVILLE	RAVENNA ORE PILES	SVOC 8270 QSM		S	**4**	
		DLASS-032-0001-SO								35517			

10 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

PREP WORKSHEET
on 1/4/2011

Prep Batch **35,517**

Date Prepped: 11/22/2010

Prepped By:: BEL

Date Entered:

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
	874148	MBS		SVOC 8270 QSM	SOLID	1.0	10.00			
	874149	LCSS		SVOC 8270 QSM	SOLID	1.0	10.00			
82424	870201	*		SVOC 8270 QSM	SOIL	1.0	9.96		N	
	870203			SVOC 8270 QSM	SOIL	1.0	9.96		N	
82458	871184			SVOC 8270 QSM	SOIL	1.0	10.02		N	
	871186			SVOC 8270 QSM	SOIL	1.0	10.06		N	
	871197			SVOC 8270 QSM	SOIL	1.0	10.05		N	
	871198			SVOC 8270 QSM	SOIL	1.0	9.98		N	
	874146	MSS	870201	SVOC 8270 QSM	SOIL	1.0	9.98			
	874147	MSDS	874146	SVOC 8270 QSM	SOIL	1.0	9.95			

Control Spike/Control Spike Dup Reference Number:_____ Methanol Supplier/Lot #:_____

Notes:_____

METHOD 8270-SV GC/MS Extraction Bench Sheet
SOP Reference Number 8270, 8270 SIM Explosives, 8270SIM PAH

EPA Method references: ~~8270~~ (Semivolatiles) **Prep Batch Number** 35517
3510 (Separatory funnel extraction)
3545 (Pressurized Fluid Extraction)
3580 (Waste Dilution)
3546 (Microwave Extraction)

***Spike and Surrogate Information*:**
Spike amount and concentration (Matrix Spike and LCS): 1.0 mL @ 20 ug/mL
Spike Reference: SVMS 4609 ADDED: BEL
Surrogate amount and concentration: 1.0 mL @ 20/40 (BN/A) ug/mL
Surrogate Reference: SVMS 4676 ADDED: BEL
Reagent lot # $MeCl_2$ J36J16 Na_2SO_4 J29601 Acetone J14E52
Sulfuric Acid SVMS ~ NaOH SVMS — Diatomaceous earth 909120
Dionex DI 1432 Scale Semibalance 1 GPC Start 11-24-10 @1200 GPC End 11-26-10

Extraction by: BEL Date 11/22/10 Start Time 9:00 End 10:00
Initial Concentration by: [illegible] Date 11/24/10
Final Concentration by: [illegible] Date 11/26/10

Cell #	Client	Sample Number	Sample Amt. (gm or L)	Final Vol (mL)	pH <2	pH >11	Comments
	Method Blank	MB 874148	10.00	1.0			
	Control Spike	LCS 874149	10.00				
	~~**Control Spike Dup.**~~	~~LCSD~~ N/A	BEL 11/22/10				
	Matrix Spike	MS 870201	9.98	1.0			
	Matrix Spike Dup.	MSD 870201	9.95				
	USACE	870201	9.96				
		870203	9.96				
		871184	10.02				
		871186	10.06				
		871197	10.05				
	↓	871198	9.98				

Sequence Name: C:\INSTARCH\SEQUENCE\2S120210B.S
Comment: 8270
Operator: RPN
Data Path: C:\INSTARCH\DATA\2S120210B\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line			Sample Name/Misc Info		
1)	DFTPP	1	2DFTPP51	2DFTPP	DFTPP SVMS4646
2)	Sample	99	2IB01	2S120210	INSTRUMENT BLANK
3)	Sample	2	2ICAL7	2S120210	ICAL 7 50ug/ml SVMS4685
4)	Sample	3	2ICAL6	2S120210	ICAL 6 40ug/ml SVMS4684
5)	Sample	4	2ICAL5	2S120210	ICAL 5 30ug/ml SVMS4683
6)	Sample	5	2ICAL4	2S120210	ICAL 4 20ug/ml SVMS4682
7)	Sample	6	2ICAL3	2S120210	ICAL 3 10ug/ml SVMS4681
8)	Sample	7	2ICAL2	2S120210	ICAL 2 5ug/ml SVMS4680
9)	Sample	8	2ICAL1	2S120210	ICAL 1 1ug/ml SVMS4679
10)	Sample	9	2ICV1	2S120210	ICV 1 20ug/ml SVMS4686
11)	Sample	10	2ICV2	2S120210	ICV 2 40ug/ml SVMS4687
12)	Sample	11	2MBW01	2S120210	72180,MBW,1
13)	Sample	12	2LCSW01	2S120210	72180,LCSW,1
14)	Sample	13	873036	2S120210	72180,873036,1
15)	Sample	14	873036MS	2S120210	72180,MSW873036,1
16)	Sample	15	873036SD	2S120210	72180,MSDW873036,1
17)	Sample	16	873037	2S120210	72180,873037,1
18)	Sample	17	873038D	2S120210	72180,873038,10
19)	Sample	18	873039D	2S120210	72180,873039,10
20)	Sample	19	873041D	2S120210	72180,873041,10
21)	Sample	17	873038D2	2S120210	72180,873038,50
22)	Sample	18	873039D2	2S120210	72180,873039,50
23)	Sample	19	873041D2	2S120210	72180,873041,100
24)	Sample	2	2MBS01	2S120210	72179,MBS,1
25)	Sample	3	2LCSS01	2S120210	72179,LCSS,1
26)	Sample	4	870201	2S120210	72179,870201,1
27)	Sample	5	870201MS	2S120210	72179,MSS870201,1
28)	Sample	6	870201SD	2S120210	72179,MSDS870201,1
29)	Sample	7	870203	2S120210	72179,870203,1
30)	Sample	8	871184	2S120210	72179,871184,1
31)	Sample	9	871186	2S120210	72179,871186,1
32)	Sample	10	871197	2S120210	72179,871197,1
33)	Sample	11	871198	2S120210	72179,871198,1
34)	Sample	5	870201SR	2S120210	72179,MSS870201,1
35)	Sample	6	870201DR	2S120210	72179,MSDS870201,1
36)	Sample	99	2IB02	2S120210	INSTRUMENT BLANK

Sequence Name: C:\INSTARCH\SEQUENCE\2S120510.S
Comment: 8270
Operator: RPN
Data Path: C:\INSTARCH\DATA\2S120510\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

RPN
12/05/10

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line			Sample Name/Misc Info	
1)	Sample	99	2IB01	2S120210 INSTRUMENT BLANK
2)	DFTPP	1	2DFTPP53	2DFTPP DFTPP SVMS4646
3)	Sample	2	2CCV47	2S120210 CCV 20ug/ml SVMS4688
4)	Sample	3	2CCV48	2S120210 CCV 20ug/ml SVMS4551
5)	Sample	4	2MBS01	2S120210 72185,MBS,1
6)	Sample	5	2LCSS01	2S120210 72185,LCSS,1
7)	Sample	6	874855	2S120210 72185,874855,1
8)	Sample	7	874855MS	2S120210 72185,MSS874855,1
9)	Sample	8	874855SD	2S120210 72185,MSDS874855,1
10)	Sample	9	874843	2S120210 72185,874843,1
11)	Sample	10	874851	2S120210 72185,874851,1
12)	Sample	11	874852	2S120210 72185,874852,1
13)	Sample	12	874853	2S120210 72185,874853,1
14)	Sample	13	874854	2S120210 72185,874854,1
15)	Sample	14	874856	2S120210 72185,874856,1
16)	Sample	15	874857	2S120210 72185,874857,1
17)	Sample	16	874858	2S120210 72185,874858,1
18)	Sample	17	874861	2S120210 72185,874861,1
19)	Sample	18	874862	2S120210 72185,874862,1
20)	Sample	5	2LCSS01R	2S120210 72185,LCSS,1
21)	Sample	7	874855SR	2S120210 72185,MSS874855,1
22)	Sample	8	874855DR	2S120210 72185,MSDS874855,1
23)	Sample	11	874852R	2S120210 72185,874852,1
24)	Sample	19	2LCSS02R	2S120210 72179,LCSS,1
25)	Sample	17	874861R	2S120210 72185,874861,1
26)	Sample	18	874862R	2S120210 72185,874862,1

Table 4

8270 SVOC Analysis Data Review Checklist

Analytical Run #:72179	**Independent Reviewer: JJY**
Sequence Date: 12/02/2010	**Date of Review: 12/14/2010**
Analyst/Data Interpreter: RPN	**Approval: Yes**

Instructions: Complete one checklist per *analytical run* . Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section, and may require the initiation of a Nonconformance Report.

Requirements:	Acceptance Criteria	Analyst Review		Independent Review		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
1. INITIAL CALIBRATION (ICAL)						
a. Was the initial calibration performed using a minimum of five standard concentration levels?	Lowest standard at or near MRL	**Yes**		**Yes**		
b. SPCC responses.	Avg. RRF ≥ 0.05	**Yes**		**Yes**		
c. Is the variation between calibration response factors for all concentration levels <20% RSD, is r >.995, or r^2 > 0.990 for the regression line. RSD≤ 15%, ≤ 30% for CCCs.	RSD≤ 15%, ≤ 30% for CCCs	**Yes**		**Yes**		
d. Were the standards used for the ICAL uniquely identified?		**Yes**		**Yes**		
e. Was there a DFTPP standard analyzed prior to the ICAL?		**Yes**		**Yes**		
f. Was an instrument blank (IB) analyzed prior to the ICAL?		**Yes**		**Yes**		
2. INITIAL CALIBRATION VERIFICATION (ICV)						
a. Were there a second source ICVs for all target analytes analyzed after the initial calibration and prior to analysis of any samples?	Second source	**Yes**		**Yes**		
b. Were the SPCC within QC limits	RRF ≥ 0.05	**Yes**		**Yes**		
c. Were the CCCs within QC limits	%D ≤ 20%	**Yes**		**Yes**		
d. Were the ICVs uniquely identified (i.e. Standard Number)?		**Yes**		**Yes**		
3. CONTINUING CALIBRATION VERIFICATION (CCV)						
a. Were CCVs for target analytes analyzed at the beginning of the sequence and after every 12 hours.		**Yes**		**Yes**		
b. Were SPCC compounds acceptable?	RRF ≥ 0.050	**Yes**		**Yes**		
c. Were the CCCs compounds acceptable?	%D ≤ 20%	**Yes**		**Yes**		
d. Were the recoveries for the CCVs acceptable?	%D≤20%	**Yes**		**Yes**		
e. Was each CCV uniquely identified (i.e. Standard Number)?		**Yes**		**Yes**		

Additional Comments:

Analytical Run #:72179

Table 4

8270 SVOC Analysis Data Review Checklist

Requirements:	Acceptance Criteria	Analyst		Independent		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
4. DFTPP						
a. Was a DFTPP tune check ran at the beginning of every twelve hour shift?		**Yes**		**Yes**		
b. Were the relative abundance criteria met?		**Yes**		**Yes**		
c. Was the peak tailing <2 on Pentachlorophenol and <2 on Benzidine?	Tailing <2%	**Yes**		**Yes**		
d. Was the breakdown of DDT to DDE and DDD less than 20%	Breakdown ≤20%	**Yes**		**Yes**		
5. BLANKS						
a. Was method blank (MB) analyzed prior to the analysis of samples?		**Yes**		**Yes**		
b. Were the MB results less than the reporting limit (RL)?	< MRL	**Yes**		**Yes**		
c. Was a MB prepped and analyzed at a frequency of one per Prep Batch?	Batch <20 samples	**Yes**		**Yes**		
6. LABORATORY CONTROL SAMPLE (LCS)						
a. Was a LCS analyzed prior to the analysis of samples?		**Yes**		**Yes**		
b. Were the LCS recoveries in each LCS within the acceptance criteria?	In-house limits or client specified limits		**No**		**No**	See Below
7. MATRIX SPIKES						
a. Was a matrix spiked (MS) sample analyzed at a frequency one per Prep Batch?	Batch <20 samples	**Yes**		**Yes**		
b. Were MS recoveries in each MS within the acceptance criteria?	In-house limits or client specified limits		**No**		**No**	See Below
8. LABORATORY CONTROL SPIKE / MATRIX SPIKE DUPLICATE						
a. Was a duplicate matrix spike or laboratory control spike sample analyzed at a frequency one per Prep Batch?	Batch <20 samples	**Yes**		**Yes**		
b. Were MSD or LCSD recoveries within the acceptance criteria?	In-house limits or client specified limits		**No**		**No**	See Below
c. Is the relative percent difference (RPD) between a matrix spike (MS) and its' duplicate (MSD) or laboratory control spike (LCS) and its' duplicate (LCSD) within the acceptance criteria?	In-house limits or client specified limits	**Yes**		**Yes**		

Additional Comments:

LCSS874179: Recovery of Pyridine and Benzidine low. Confirmed. "Q"

870201MS & MSD: Recoveries of 4-Chloroaniline, 3'3'-Dichlorobenzidine, 3-Nitroaniline, 4-Nitroaniline, Aniline, Benzidine, Benzoicacid and Pyridine . Confirmed. "M"

Analytical Run #:72179

Table 4

8270 SVOC Analysis Data Review Checklist

Requirements:	Acceptance Criteria	Analyst		Independent		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
9. SAMPLES (INCLUDING BLANKS, STANDARDS, AND QC SAMPLES)						
a. Are chromatogram characteristics, including peak shapes and areas, consistent with those of the CCV?		**Yes**		**Yes**		
b. Are surrogate recoveries for all samples, blanks, standards, and QC samples within acceptance criteria?		**Yes**		**Yes**		
c. Were all samples having analytes detected in amounts exceeding the calibration range diluted and reanalyzed?		**Yes**		**Yes**		
d. Were all samples extracted within holding times and analyzed within 40 days of extracting?	Analysis within 40 days of extraction	**Yes**		**Yes**		
e. Did the samples require additional cleanup steps? (i.e. acid treatment, acid-base fractioning, and GPC)	GPC, Acid/Base, Treatments	**Yes**		**Yes**		GPC
10. RECORDS AND REPORTING						
a. Are Run, Prep Batch and Extraction sheets, Summary sheets, Sequence file, initial and rerun raw and process data present in the data file?		**Yes**		**Yes**		
b. Are all chromatograms dated and initialed?		**Yes**		**Yes**		
c. Are reported results whose amounts exceeded the acceptance criteria flagged with an appropriate qualifier and, if needed, a NCR completed?		**Yes**		**Yes**		
d. Do all values, dilution factors and qualifiers listed on the raw reports match the LIMS data?		**Yes**		**Yes**		
e. Is the ICAL method referenced on the Raw Data?		**Yes**		**Yes**		

Additional Comments:

Manual Integration for Benzo(b)fluoranthene and/or Bnzo(k)fluoranthene. Samples 870201, 870203, 871184 & 871198

8270 SPIKE 20 ug/mL

4609	STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. ug/mL	V added uL	V final mL	CONC ug/mL
RPN 10/07/10 x4/6/2011	8270 MEGAMIX	Restek	31850	S2249	A075665	1000	1000	50	20
	Benzidines	Restek	31834	S2248	A072315	2000	500	50	20
	XCT-CM-1	SPEX	XCT-CM-1	S2187C	T1090804002	2000	500	50	20
	Acetone	JTBaker	9254-03	N/A	H30E21	99.9%			

8270 SPIKE 20 ug/mL

SVMS 4610	STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. ug/mL	V added uL	V final mL	Conc final ug/mL
RPN 10/07/10 x4/6/2011	8270 MEGAMIX	Restek	31850	S2249	A075665	1000	200	10	20
	Benzidines	Restek	31834	S2248	A072315	2000	100	10	20
	XCT-CM-1	SPEX	XCT-CM-1	S2187C	T1090804002	2000	100	10	20
	Acetone	JTBaker	9254-03	N/A	H30E21	99.9%			

SVMS 4611 Surr Internal Standards @ 100 µg/mL
10/7/2010 50µl S2244B @ 2000 µg/mL
10/14/2010 Calculated to 1.0 ml with MeCl2

8270 Extra Analyte List Calibration Working Standards

		STD ID	PARENT STD	PARENT CONC ug/mL	Vol STD uL	Vol final mL	CONC final ug/mL
RPN 10/11/10 4/10/2011	ICAL1	SVMS4612	SVMS4618	50	100	5	1
	ICAL2	SVMS4613	S2243A	2000	12.5	5	5
	ICAL3	SVMS4614	S2243A	2000	25	5	10
	ICAL4	SVMS4615	S2243A	2000	50	5	20
	ICAL5	SVMS4616	S2243A	2000	75	5	30
	ICAL6	SVMS4617	S2243A	2000	100	5	40
	ICAL7	SVMS4618	S2243A	2000	125	5	50
	ICV1	SVMS4619	S2242B	2000	50	5	20
	ICV2	SVMS4620	S2242B	2000	100	5	40
	CCV	SVMS4621	S2243A	2000	50	5	20

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Read and Understood By

Signed Date Signed Date

SVMS 4643 8270 SIM/SCAN Internal Standards
10/20/2010 500µL S2244C @ 2000 µg/mL — 1000µg/mL RPN
x + 500 µL S2041C @ 1000 µg/mL — 500µg/mL

SVMS 4644 8270 SIM Internal Standards @ 100µg/mL
11/2/2010 50µL S2263A @ 2000 µg/mL RPN
x 11/9/2010 diluted to 1.0 mL with MeCl2

SVMS 4645 Sim Internal Standards @ 100 µg/mL
11/12/2010 50µL S2263A @ 2000 µg/mL RPN
x 11/19/2010 diluted to 1.0 mL with MeCl2

RPN

DFTPP TUNE MIX 50µg/ml									
SVMS 4646 RPN	STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. ug/mL	V added uL	V final mL	CONC final ug/mL
11/15/2010	GC/MS Tuning Mix	Restek	31615	S2224	A060630	1000	500	10	50
X5/14/2011	MeCl2	JTBaker			H49S06	99%			

SVMS 4647 Sim/PEST SPIKE @ 1 µg/mL
11/15/2010 125µL S2154B @ 200µg/mL RPN
12/31/2010 +25µL S1946 @ 1000µg/mL
diluted to 25 mL with Acetone JTBaker H30E21

SVMS 4648 8270 SIM/PAH Intermediate Stock Std @ 20µg/mL
11/15/2010 100µL S2272 @ 2000 µg/mL
x 5/14/2011 + 40 µL B/N Surrogate S2163B @ 5000µg/mL RPN
Diluted to 10 mL with MeCl2 JTBaker J21S09

SVMS 4649 8270 SIM/PAH ICV Int. Std @ 20µg/mL RPN
11/15/2010 100µL S2273 @ 2000 µg/mL
x 5/14/2011 + 40 µL B/N Surrogate S2163B @ 5000 µg/mL
Diluted to 10 mL with MeCl2

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Read and Understood By

Signed	Date	Signed	Date

8270SIM/PAH SPIKE 1.0 ug/mL									
SVMS 4663 RPN	STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. ug/mL	V added uL	V final mL	CONC final ug/mL
11/15/2010	8270 CAL.MIX 5	Restek	31622	S2272	A077605	2000	25	50	1
X5/14/2011	Acetone	JTBaker			H30E21				

SVMS 4664 8270 SIM/PEST STOCK STD @ 20µg/mL
11/16/2010 400 µL S2277 @ 500 µg/mL
x 5/15/2010 + 40 µL B/N Surrogate @ 5000 µg/mL (S2163B) RPN
↳ diluted to 10mL w/ MeCl2 JTBaker H30E21

SVMS 4665 8270 SIM/PEST ICV Stock Std. @ 20µg/mL
11/16/2010 500 µL S2274A @ 200 µg/mL
x 5/15/2010 + 20 µL B/N Surrogate S2163B @ 5000 µg/mL
Diluted to 5mL w/ MeCl2. JTBaker H30E21

8270 SIM-PEST Calibration working standards							
		STD ID	PARENT STD	PARENT CONC (µg/mL)	Vol STD uL	Vol final mL	CONC final ng/mL
RPN 11/16/2010 X5/15/2011	ICAL1	SVMS4666	SVMS4664	20	10	10	20
	ICAL2	SVMS4667	SVMS4664	20	25	10	50
	ICAL3	SVMS4668	SVMS4664	20	50	10	100
	ICAL4	SVMS4669	SVMS4664	20	250	10	500
	ICAL5	SVMS4670	SVMS4664	20	500	10	1000
	ICAL6	SVMS4671	SVMS4664	20	750	10	1500
	ICAL7	SVMS4672	SVMS4664	20	1000	10	2000
	ICV1	SVMS4673	SVMS4665	20	250	10	500
	ICV2	SVMS4674	SVMS4665	20	750	10	1500
	CCV	SVMS4675	SVMS4664	20	250	10	500

8270 SURROGATES BN/A 20/40 ug/mL									
SVMS4676 RPN 11/16/2010 05/16/2011	STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. (ugml)	V added uL	V final mL	CONC final (ug/mL)
	ACID SURR.	RESTEK	31063	S2200B	A060787	10000	400	100	40
	B/N SURR.	RESTEK	31062	S2163B	A073966	5000	400	100	20
	Acetone	JTBaker		N/A	H30E21	99.9%			

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Signed Date Signed Date

8270 ICAL Stock 100 ug/mL

SVMS4677

RPN
11/22/10
x 05/18/2011

STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. ug/mL	V added uL	V final mL	CONC ug/mL
8270 MEGAMIX	Restek	31850	S2268A	A076907	1000	1000	10	100
Benzidines	Restek	31834	S2266	A077154	2000	500	10	100
XCT-CM-1	SPEX-CERT	XCT-CM-1	S2186C	I1090804001	2000	500	10	100
8270 Acid Surr	Restek	31063	S2200B	A060787	10000	100	10	100
8270 BN Surr	Restek	31062	S2163B	A073966	5000	200	10	100
DCM	JTBaker		N/A	H49S06	99.9%			

8270 2nd Source ICV Stock 100 ug/mL

SVMS4678

RPN
11/22/10
x 05/18/2011

STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. ug/mL	V added uL	V final mL	CONC ug/mL
8270 MEGAMIX	Restek	31850	S2269	A077266	1000	500	5	100
Benzidines	Restek	31834	S2267	A074191	2000	250	5	100
XCT-CM-1	SPEX-CERT	XCT-CM-1	S2187B	I1090804002	2000	250	5	100
8270 Acid Surr	Restek	31063	S2200B	A060787	10000	50	5	100
8270 BN Surr	Restek	31062	S2163B	A073966	5000	100	5	100
DCM	JTBaker		N/A	H49S06	99.9%			

8270 Calibration Working Standards

RPN
11/22/10
x 5/18/2011

	STD ID	PARENT STD	PARENT CONC ug/mL	Vol STD uL	Vol final mL	CONC final ug/mL
ICAL1	SVMS4679	SVMS4677	100	10	1	1
ICAL2	SVMS4680	SVMS4677	100	50	1	5
ICAL3	SVMS4681	SVMS4677	100	100	1	10
ICAL4	SVMS4682	SVMS4677	100	200	1	20
ICAL5	SVMS4683	SVMS4677	100	300	1	30
ICAL6	SVMS4684	SVMS4677	100	400	1	40
ICAL7	SVMS4685	SVMS4677	100	500	1	50
ICV1	SVMS4686	SVMS4678	100	200	1	20
ICV2	SVMS4687	SVMS4678	100	400	1	40
CCV	SVMS4688	SVMS4677	100	200	1	20

SVMS 4689 8270 SIM Internal Standards @ 100 ug/mL
11/23/2010 50 µL S2263A @ 2000 ug/mL
x 11/30/2010 diluted to 1.0 mL w/ MeCl2

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Read and Understood By

Signed Date Signed Date

8270 Addl. Comp. Calibration working standards (SIM/SCAN)

RPN
12/1/2010
X5/29/2011

	STD ID	PARENT STD	PARENT CONC µg/mL	Vol STD uL	Vol final mL	CONC final ug/mL
ICAL1	SVMS4706	SVMS4704	100	5	0.5	1
ICAL2	SVMS4707	SVMS4704	100	25	0.5	5
ICAL3	SVMS4708	SVMS4704	100	50	0.5	10
ICAL4	SVMS4709	SVMS4704	100	100	0.5	20
ICAL5	SVMS4710	SVMS4704	100	150	0.5	30
ICAL6	SVMS4711	SVMS4704	100	200	0.5	40
ICAL7	SVMS4712	SVMS4704	100	250	0.5	50
ICV1	SVMS4713	SVMS4705	100	100	0.5	20
ICV2	SVMS4714	SVMS4705	100	200	0.5	40
CCV	SVMS4715	SVMS4704	100	100	0.5	20

JJY 12/2/10

JJY 12/2/10
SVMS4717
JJY 168
12 02 10
x 05/18/2011

8270 SIM SURROGATES 1.0 ug/mL

STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. ug/mL	V added uL	V final mL	CONC final ug/mL
B/N SURR.	RESTEK	31062	S2163C	A073966	5000	20	100	1
Acetone	JT Baker		N/A	J14E52	99.9%			

JJY 12/2/10

SVMS4716
JJY
12 02 10
x 05/18/2011

8270 SIM SURROGATES 1.0 ug/mL

STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. ug/mL	V added uL	V final mL	CONC final ug/mL
B/N SURR.	RESTEK	31062	S2163C	A073966	5000	20	100	1
Acetone	JT Baker		N/A	J14E52	99.9%			

8270 SPIKE 20 ug/mL

SVMS4717

RPN
12/03/10
x4/6/2011

STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. ug/mL	V added uL	V final mL	CONC final ug/mL
8270 MEGAMIX	Restek	31850	S2269	A077266	1000	500	25	20
Benzidines	Restek	31834	S2248	A072315	2000	250	25	20
XCT-CM-1	SPEX	XCT-CM-1	S2187C	T1090804002	2000	250	25	20
Biphenyl	SPEX	S-500	S2194B	M1091211004	1000	500	25	20
Additions Std	Restek	31902	S2276	A077017	1000	500	25	20
Acetone	JTBaker		N/A	J30E52	99.9%			

8270 SPIKE 20 ug/mL

SVMS4718

RPN
12/03/10
x4/6/2011

STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. ug/mL	V added uL	V final mL	CONC final ug/mL
8270 MEGAMIX	Restek	31850	S2269	A077266	1000	200	10	20
Benzidines	Restek	31834	S2248	A072315	2000	100	10	20
XCT-CM-1	SPEX	XCT-CM-1	S2187C	T1090804002	2000	100	10	20
Biphenyl	SPEX	S-500	S2194B	M1091211004	1000	200	10	20
Additions Std	Restek	31902	S2276	A077017	1000	200	10	20
Acetone	JTBaker		N/A	J30E52	99.9%			

Signed _____ Date _____ Signed _____ Date _____

POLYCHLORINATED BIPHENYL QUALITY CONTROL SUMMARY DOCUMENTS

CT LABORATORIES
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1D-2

PCB ORGANICS ANALYSIS

Sample Description

DLASS-032-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix:	SOIL	SDG No.:	82458
Sample wt/vol:	10.05 (g/L)	CTL Sample ID:	871184
% Solids:	98.1	Date Received:	11/12/2010
Conc. Extract Vol:	10.0 (mL)	Date/Time Prepared:	11/22/2010 / 11:30
Analytical Method:	EPA 8082A	Analytical Prep Batch #	35516
Analytical Run #:	72009	Dilution Factor:	1.00
Date & Time Analyzed:	11/24/2010 / 15:13		
Cleanup Date/Time/Type:	, 11/24/2010 10:30 (Sulfur) , 11/24/2010 09:30 (Acid) ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
12674-11-2	Aroclor-1016	10	U	10	25	51	51
11104-28-2	Aroclor-1221	20	U	20	25	51	67
11141-16-5	Aroclor-1232	27	U	27	25	51	91
53469-21-9	Aroclor-1242	29	U	29	25	51	97
12672-29-6	Aroclor-1248	29	U	29	25	51	98
11097-69-1	Aroclor-1254	23	U	23	25	51	77
11096-82-5	Aroclor-1260	12	U	12	25	51	51
37324-23-5	Aroclor-1262	21	U	21	25	51	72
11100-14-4	Aroclor-1268	28	U	28	25	51	93

CT LABORATORIES
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1D-2

PCB ORGANICS ANALYSIS

Sample Description

DLASS-042-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix:	SOIL	SDG No.:	82458
Sample wt/vol:	10.04 (g/L)	CTL Sample ID:	871186
% Solids:	99.1	Date Received:	11/12/2010
Conc. Extract Vol:	10.0 (mL)	Date/Time Prepared:	11/22/2010 / 11:30
Analytical Method:	EPA 8082A	Analytical Prep Batch #	35516
Analytical Run #:	72009	Dilution Factor:	1.00
Date & Time Analyzed:	11/24/2010 / 15:29		
Cleanup Date/Time/Type:	, 11/24/2010 10:30 (Sulfur) , 11/24/2010 09:30 (Acid) ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
12674-11-2	Aroclor-1016	10	U	10	25	50	50
11104-28-2	Aroclor-1221	20	U	20	25	50	66
11141-16-5	Aroclor-1232	27	U	27	25	50	90
53469-21-9	Aroclor-1242	29	U	29	25	50	96
12672-29-6	Aroclor-1248	29	U	29	25	50	97
11097-69-1	Aroclor-1254	23	U	23	25	50	76
11096-82-5	Aroclor-1260	12	U	12	25	50	50
37324-23-5	Aroclor-1262	21	U	21	25	50	71
11100-14-4	Aroclor-1268	28	U	28	25	50	92

CT LABORATORIES
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1D-2

PCB ORGANICS ANALYSIS

Sample Description

DLASS-042-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix:	SOIL	SDG No.:	82458
Sample wt/vol:	10.04 (g/L)	CTL Sample ID:	871197
% Solids:	99.0	Date Received:	11/12/2010
Conc. Extract Vol:	10.0 (mL)	Date/Time Prepared:	11/22/2010 / 11:30
Analytical Method:	EPA 8082A	Analytical Prep Batch #	35516
Analytical Run #:	72009	Dilution Factor:	1.00
Date & Time Analyzed:	11/24/2010 / 15:44		
Cleanup Date/Time/Type:	, 11/24/2010 10:30 (Sulfur) , 11/24/2010 09:30 (Acid) ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
12674-11-2	Aroclor-1016	10	U	10	25	50	50
11104-28-2	Aroclor-1221	20	U	20	25	50	66
11141-16-5	Aroclor-1232	27	U	27	25	50	91
53469-21-9	Aroclor-1242	29	U	29	25	50	97
12672-29-6	Aroclor-1248	29	U	29	25	50	98
11097-69-1	Aroclor-1254	23	U	23	25	50	76
11096-82-5	Aroclor-1260	12	U	12	25	50	50
37324-23-5	Aroclor-1262	21	U	21	25	50	71
11100-14-4	Aroclor-1268	28	U	28	25	50	93

CT LABORATORIES
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1D-2

PCB ORGANICS ANALYSIS

Sample Description

DLASS-032-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix:	SOIL	SDG No.:	82458
Sample wt/vol:	10.03 (g/L)	CTL Sample ID:	871198
% Solids:	98.2	Date Received:	11/12/2010
Conc. Extract Vol:	10.0 (mL)	Date/Time Prepared:	11/22/2010 / 11:30
Analytical Method:	EPA 8082A	Analytical Prep Batch #	35516
Analytical Run #:	72009	Dilution Factor:	1.00
Date & Time Analyzed:	11/24/2010 / 16:00		
Cleanup Date/Time/Type:	, 11/24/2010 10:30 (Sulfur) , 11/24/2010 09:30 (Acid) ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
12674-11-2	Aroclor-1016	10	U	10	25	51	51
11104-28-2	Aroclor-1221	20	U	20	25	51	67
11141-16-5	Aroclor-1232	27	U	27	25	51	91
53469-21-9	Aroclor-1242	29	U	29	25	51	97
12672-29-6	Aroclor-1248	29	U	29	25	51	98
11097-69-1	Aroclor-1254	23	U	23	25	51	77
11096-82-5	Aroclor-1260	12	U	12	25	51	51
37324-23-5	Aroclor-1262	21	U	21	25	51	72
11100-14-4	Aroclor-1268	28	U	28	25	51	93

CT LABORATORIES
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Sample Description

METHOD BLANK

1D-4

PCB ORGANICS ANALYSIS (MB)

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix:		SDG No.:	82458
Sample wt/vol:	10.00 (g/L)	CTL Sample ID:	874139
% Solids:		Date Received:	11/12/2010
Conc. Extract Vol:	10.0 (mL)	Date/Time Prepared:	11/22/2010 / 11:30
Analytical Method:	EPA 8082A	Analytical Prep Batch #	35516
Analytical Run #:	72009	Dilution Factor:	1.00

Cleanup Date/Time/Type: , 11/24/2010 10:30 (Sulfur) , 11/24/2010 09:30 (Acid) ,

TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*): /

Concentration Units: ug/kg

CAS NO.	Analyte	Analysis Date/Time	Concentration	Qualifiers	LOD/DL	Control Limit	RL
12674-11-2	Aroclor-1016	11/24/2010 11:32	25	U	25	25	
11104-28-2	Aroclor-1221	11/24/2010 11:32	25	U	25	25	
11141-16-5	Aroclor-1232	11/24/2010 11:32	25	U	25	25	
53469-21-9	Aroclor-1242	11/24/2010 11:32	25	U	25	25	
12672-29-6	Aroclor-1248	11/24/2010 11:32	25	U	25	25	
11097-69-1	Aroclor-1254	11/24/2010 11:32	25	U	25	25	
11096-82-5	Aroclor-1260	11/24/2010 11:32	25	U	25	25	
37324-23-5	Aroclor-1262	11/24/2010 11:32	25	U	25	25	
11100-14-4	Aroclor-1268	11/24/2010 11:32	25	U	25	25	

CT LABORATORIES
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2F-2

SOIL PCB SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: CT Laboratories | Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

Analytical Method: EPA 8082A | SDG: 82458

Analytical Run #: 72009

GC Column(1): Phenomenex ZB-5 ID: 0.32 (mm) | GC Column(2): Phenomenex ZB-1701 ID: 0.32 (mm)

CTLab #	870201				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: DCBP	100	76	60	125	

CTLab #	870203				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: DCBP	100	77	60	125	

CTLab #	871184				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: DCBP	100	74	60	125	

CTLab #	871186				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: DCBP	100	79	60	125	

CTLab #	871197				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: DCBP	100	76	60	125	

CTLab #	871198				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: DCBP	100	66	60	125	

CTLab #	874137	Sample Type:	Matrix Spike		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: DCBP	100	75.5	60	125	

CTLab #	874138	Sample Type:	Matrix Spike Duplicate		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: DCBP	100	83.9	60	125	

CTLab #	874139	Sample Type:	Method Blank		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: DCBP	100	89.0	60	125	

CTLab #	874140	Sample Type:	Lab Control Spike		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: DCBP	100	96.0	60	125	

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3F

Sample Description

SOIL PCB MATRIX SPIKE RECOVERY

DLASS-014-0001-SO

Lab Name: CT Laboratories Contract:

Matrix: SOIL SDG No.:

Analytical Method: EPA 8082A Concentration Units: ug/kg

Analytical Run #: 72009 Sample No.: 874137 Parent Sample No.: 870201

Analytical Prep Batch #: 35516 Analytical Preparation Date/Time: 11/22/2010 11:30

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
Aroclor-1016	11/24/2010	14:10	40-140	399	0	516	77
Aroclor-1260	11/24/2010	14:10	60-130	407	0	516	79

Spike Recovery: 0 out of 2 outside QC limits

CT LABORATORIES
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3F

Sample Description

SOIL PCB MATRIX SPIKE DUPLICATE RECOVERY

DLASS-014-0001-SO

Lab Name: CT Laboratories Contract:

Matrix: SOIL SDG No.:

Analytical Method: EPA 8082A Concentration Units: ug/kg

Analytical Run #: 72009 Sample No.: 874138 Parent Sample No.: 874137

Analytical Prep Batch #: 35516 Analytical Preparation Date/Time: 11/22/2010 11:30

Analyte	Analysis Date/Time		Spike Result	Spike Amount	%R	%RPD	Control Limits (%R)	Control Limits (%RPD)
Aroclor-1016	11/24/2010	14:26	445	514	87	11	40-140	30
Aroclor-1260	11/24/2010	14:26	456	514	89	12	60-130	30

RPD or Spike Recovery: 0 out of 2 outside QC limits

CT LABORATORIES
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3F

Sample Description

LCS

SOIL PCB LAB CONTROL SAMPLE

Lab Name: CT Laboratories
Contract: USACE - LOUISVILLE-RAVENNA ORE PILES
Sample No.: 874140
SDG No.: 82458
Analytical Method: EPA 8082A
Concentration Units: ug/kg

Analytical Run #: 72009
Sample No.: 874140
Parent Sample No.: 0
Analytical Prep Batch #: 35516
Analytical Preparation Date/Time: 11/22/2010 11:30

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
Aroclor-1016	11/24/2010	11:48	40-140	472		500	94
Aroclor-1260	11/24/2010	11:48	60-130	474		500	95

Spike Recovery: 0 out of 2 outside limits

CT Laboratories

4C-2

PCB METHOD BLANK SUMMARY

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Sample ID:	874139	SDG No.:	82458
Matrix:	SOLID	Date Extracted:	11/22/2010
Date Analyzed:	11/24/2010	Time Analyzed:	11:32
Analytical Method:	EPA 8082A	Extraction Method:	SW3545
Analytical Run #:	72009	Extraction Batch #:	35516

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

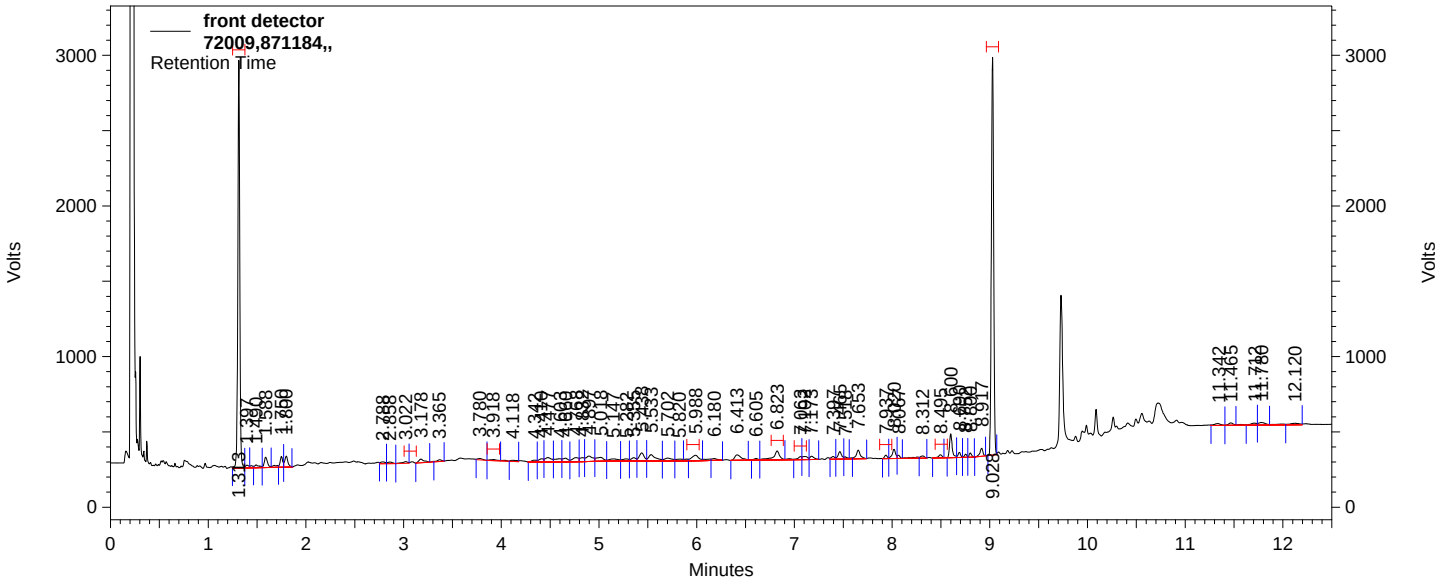
SEQUENCE	SAMPLE DESCRIPTION	SAMPLE ID	DATE/TIME ANALYZED
1	DLASS-032-0003-SO	871184	11/24/2010 15:13
2	DLASS-042-0003-SO	871186	11/24/2010 15:29
3	DLASS-042-0001-SO	871197	11/24/2010 15:44
4	DLASS-032-0001-SO	871198	11/24/2010 16:00
5	DLASS-014-0001-SOMSS	874137	11/24/2010 14:10
6	DLASS-014-0001-SOMSDS	874138	11/24/2010 14:26
7	MBS	874139	11/24/2010 11:32
8	LCSS	874140	11/24/2010 11:48

POYCHLORINATED BIPHENYL
SAMPLE DATA
DOCUMENTS

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\112410pcb\013.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\112410pcb.met
User: jjy
Sample ID: 72009,871184,,
Acquired: Nov 24,2010 15:13:30 JJY
Printed: Nov 24,2010 17:07:36 11/24/10

Data Summary: {Data Description}



front detector Results

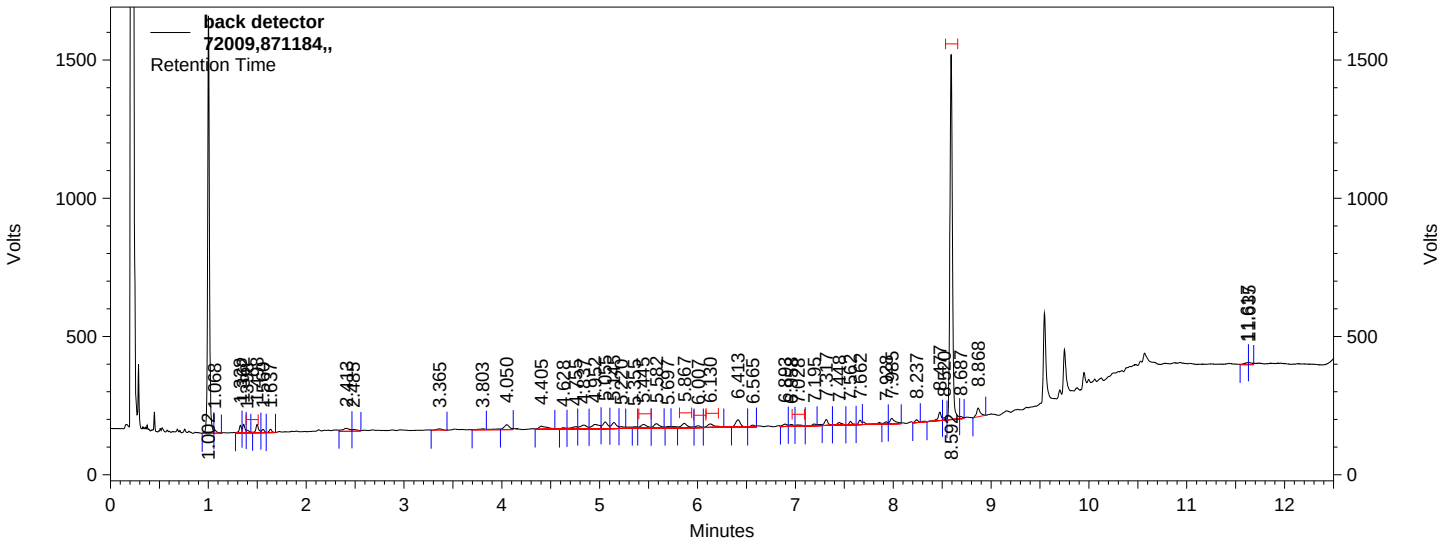
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.313	28704384	75.953
Aroclor 1016 #1			0.000 BDL
Aroclor 1016 #2			0.000 BDL
Aroclor 1016 #3			0.000 BDL
Aroclor 1016 #4	3.022	328572	0.000
Aroclor 1016 #5	3.918	265305	0.000
Aroclor 1260 #1	5.988	1365388	0.000
Aroclor 1260 #2	6.823	2116235	0.000
Aroclor 1260 #3	7.063	422718	0.000
Aroclor 1260 #4	7.937	339896	0.000
Aroclor 1260 #5	8.495	424226	0.000
SURRDCBPCB	9.028	33343159	73.610
Aroclor 1016		593877	0.000
Aroclor 1260		4668463	0.000

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\112410pcb\013.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\112410pcb.met
User: jjy
Sample ID: 72009,871184,,
Acquired: Nov 24,2010 15:13:30
Printed: Nov 24,2010 17:07:36

JJY
11/24/10

Data Summary: {Data Description}



back detector Results

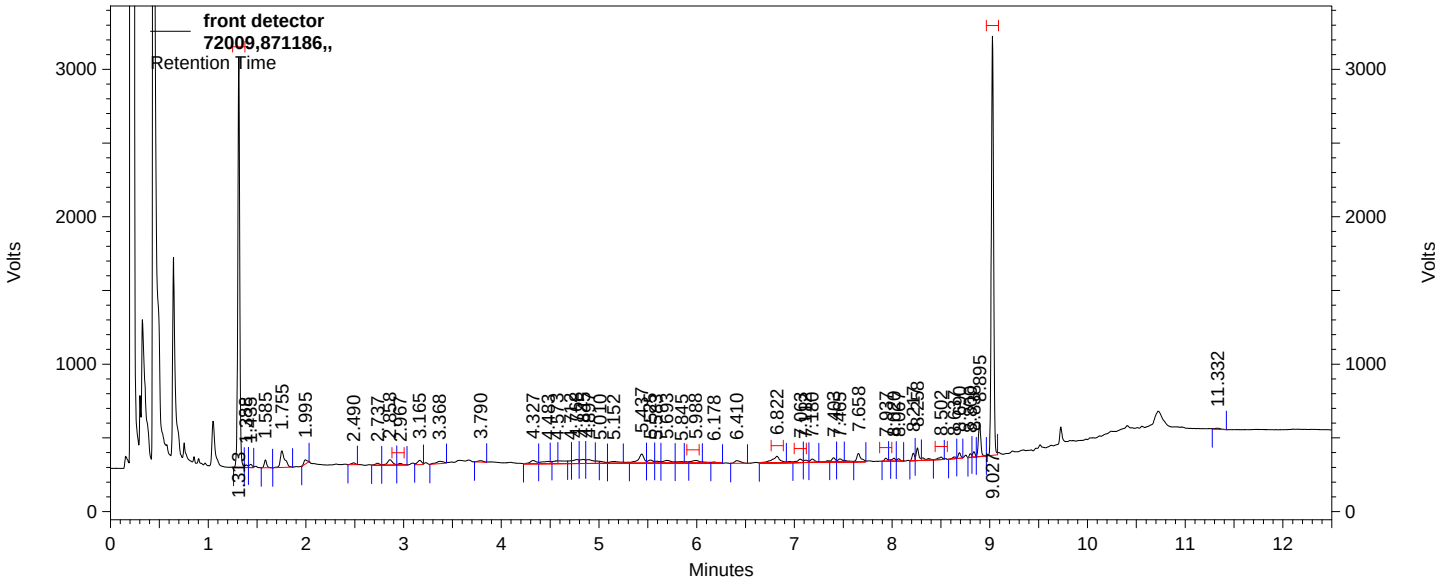
Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.002	14705788	73.973
Aroclor 1016 #1	1.398	136696	0.000
Aroclor 1016 #2			0.000 BDL
Aroclor 1016 #3			0.000 BDL
Aroclor 1016 #4			0.000 BDL
Aroclor 1016 #5			0.000 BDL
Aroclor 1260 #1	5.445	490272	0.000
Aroclor 1260 #2	5.867	535207	0.000
Aroclor 1260 #3	6.007	182127	0.000
Aroclor 1260 #4	6.130	517240	0.002
Aroclor 1260 #5	7.028	146267	0.000
SURRDCBPCB	8.592	18069200	81.776
Aroclor 1016		136696	0.000
Aroclor 1260		1871113	0.002

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\112410pcb\014.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\112410pcb.met
User: jjy
Sample ID: 72009,871186,,
Acquired: Nov 24,2010 15:29:11
Printed: Nov 24,2010 17:07:45

JJY
11/24/10

Data Summary: {Data Description}



front detector Results

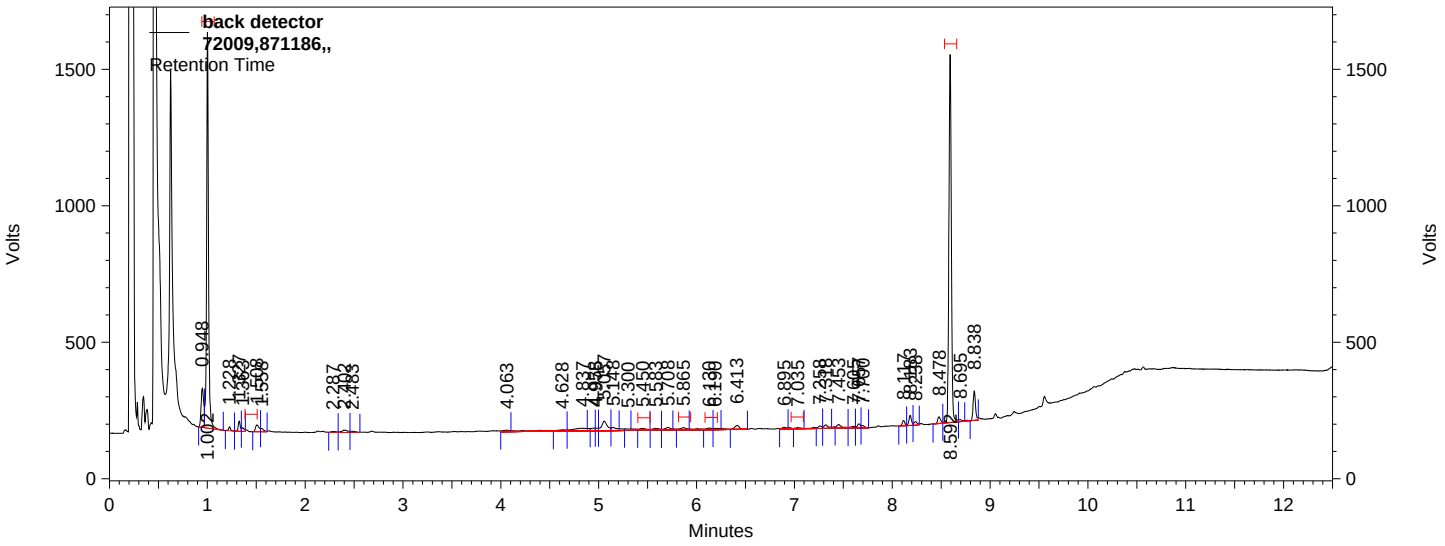
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.313	29284893	77.569
Aroclor 1016 #1			0.000 BDL
Aroclor 1016 #2			0.000 BDL
Aroclor 1016 #3	2.967	250436	0.000
Aroclor 1016 #4			0.000 BDL
Aroclor 1016 #5			0.000 BDL
Aroclor 1260 #1	5.988	948494	0.000
Aroclor 1260 #2	6.822	2053739	0.000
Aroclor 1260 #3	7.063	659009	0.000
Aroclor 1260 #4	7.937	333229	0.000
Aroclor 1260 #5	8.502	453977	0.000
SURRDCBPCB	9.027	35623775	78.937
Aroclor 1016		250436	0.000
Aroclor 1260		4448448	0.000

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\112410pcb\014.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\112410pcb.met
User: jjy
Sample ID: 72009,871186,,
Acquired: Nov 24,2010 15:29:11
Printed: Nov 24,2010 17:07:45

JJY
11/24/10

Data Summary: {Data Description}



back detector Results

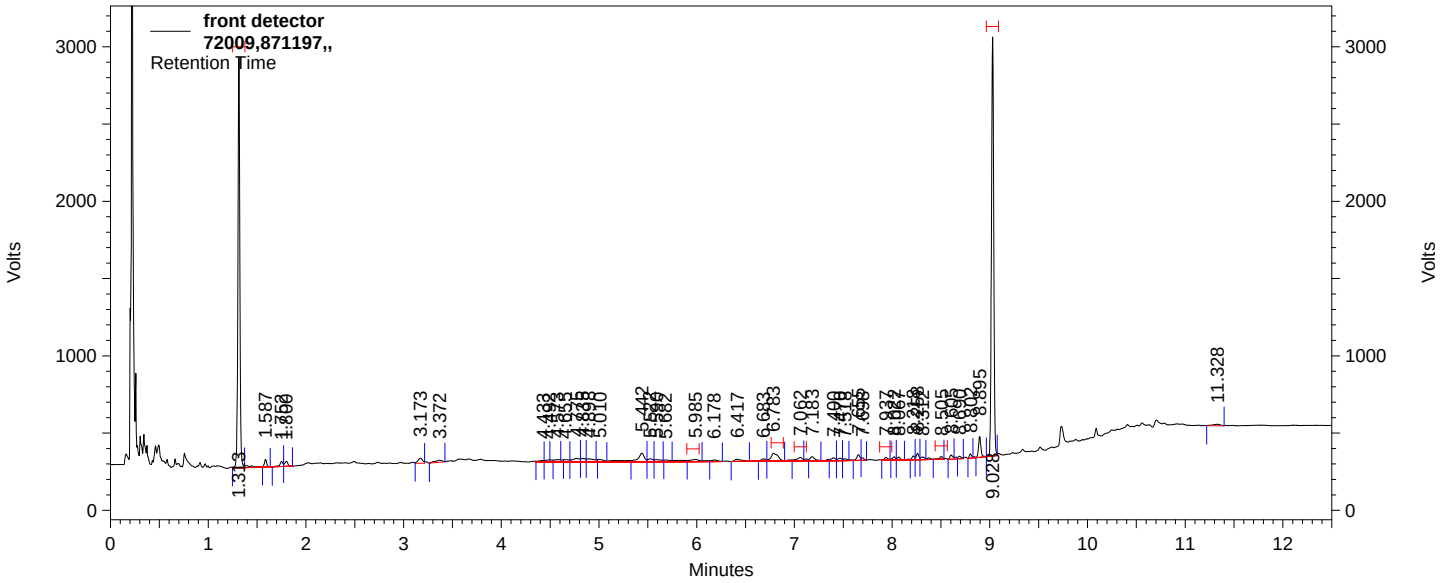
Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.002	15157018	76.324
Aroclor 1016 #1	1.508	505370	0.002
Aroclor 1016 #2			0.000 BDL
Aroclor 1016 #3			0.000 BDL
Aroclor 1016 #4			0.000 BDL
Aroclor 1016 #5			0.000 BDL
Aroclor 1260 #1	5.450	289150	0.000
Aroclor 1260 #2	5.865	320403	0.000
Aroclor 1260 #3			0.000 BDL
Aroclor 1260 #4	6.130	200605	0.000
Aroclor 1260 #5	7.035	125458	0.000
SURRDCBPCB	8.592	18038176	81.627
Aroclor 1016		505370	0.002
Aroclor 1260		935616	0.000

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\112410pcb\015.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\112410pcb.met
User: jjy
Sample ID: 72009,871197,,
Acquired: Nov 24,2010 15:44:52
Printed: Nov 24,2010 17:07:54

JJY
11/24/10

Data Summary: {Data Description}



front detector Results

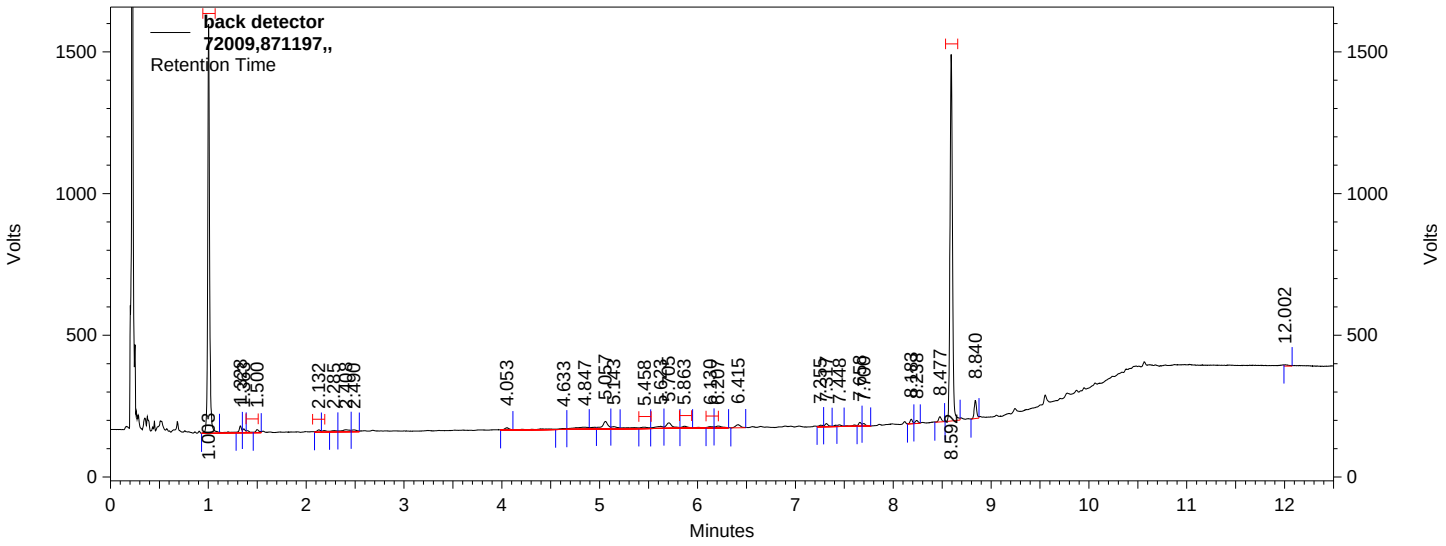
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.313	28100140	74.272
Aroclor 1016 #1			0.000 BDL
Aroclor 1016 #2			0.000 BDL
Aroclor 1016 #3			0.000 BDL
Aroclor 1016 #4			0.000 BDL
Aroclor 1016 #5			0.000 BDL
Aroclor 1260 #1	5.985	664482	0.000
Aroclor 1260 #2	6.783	2031461	0.000
Aroclor 1260 #3	7.062	728988	0.000
Aroclor 1260 #4	7.937	324674	0.000
Aroclor 1260 #5	8.505	358577	0.000
SURRDCBPCB	9.028	34181865	75.569
Aroclor 1016		0	0.000
Aroclor 1260		4108182	0.000

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\112410pcb\015.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\112410pcb.met
User: jjy
Sample ID: 72009,871197,,
Acquired: Nov 24,2010 15:44:52
Printed: Nov 24,2010 17:07:54

JJY
11/24/10

Data Summary: {Data Description}



back detector Results

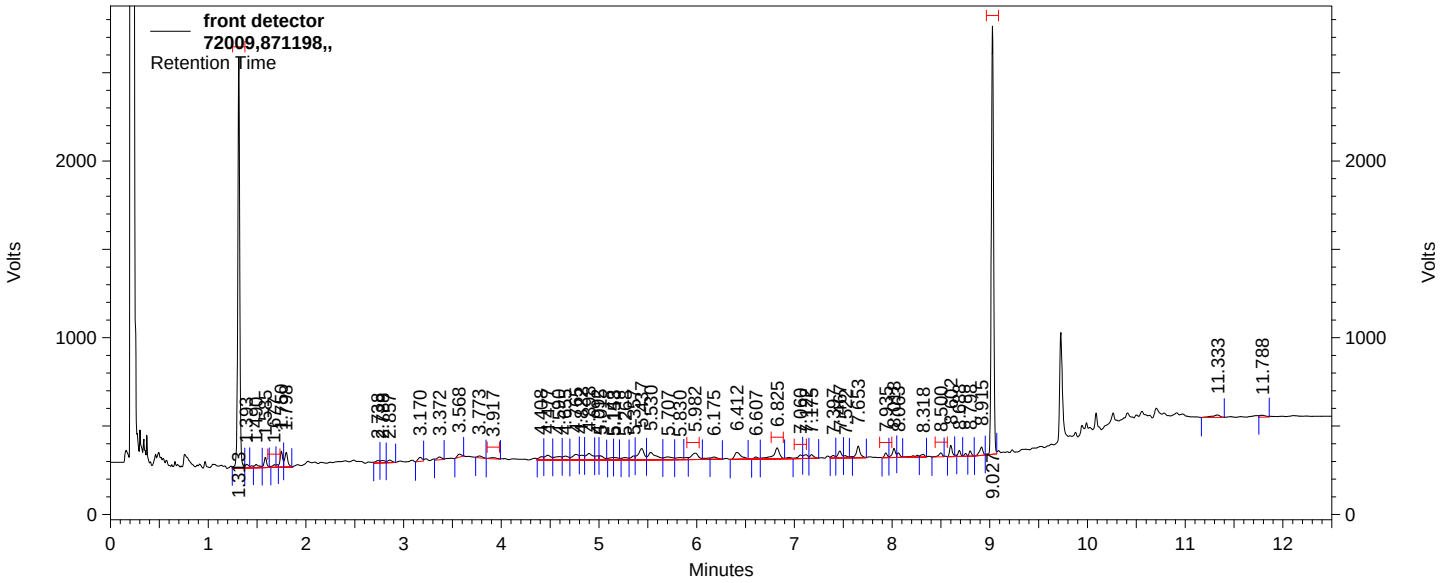
Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.003	14457097	72.678
Aroclor 1016 #1	1.500	207315	0.000
Aroclor 1016 #2			0.000 BDL
Aroclor 1016 #3	2.132	148531	0.000
Aroclor 1016 #4			0.000 BDL
Aroclor 1016 #5			0.000 BDL
Aroclor 1260 #1	5.458	202636	0.000
Aroclor 1260 #2	5.863	220923	0.000
Aroclor 1260 #3			0.000 BDL
Aroclor 1260 #4	6.130	123736	0.000
Aroclor 1260 #5			0.000 BDL
SURRDCBPCB	8.592	17308215	78.128
Aroclor 1016		355846	0.000
Aroclor 1260		547295	0.000

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\112410pcb\016.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\112410pcb.met
User: jjy
Sample ID: 72009,871198,,
Acquired: Nov 24,2010 16:00:34
Printed: Nov 24,2010 17:08:03

JJY
11/24/10

Data Summary: {Data Description}



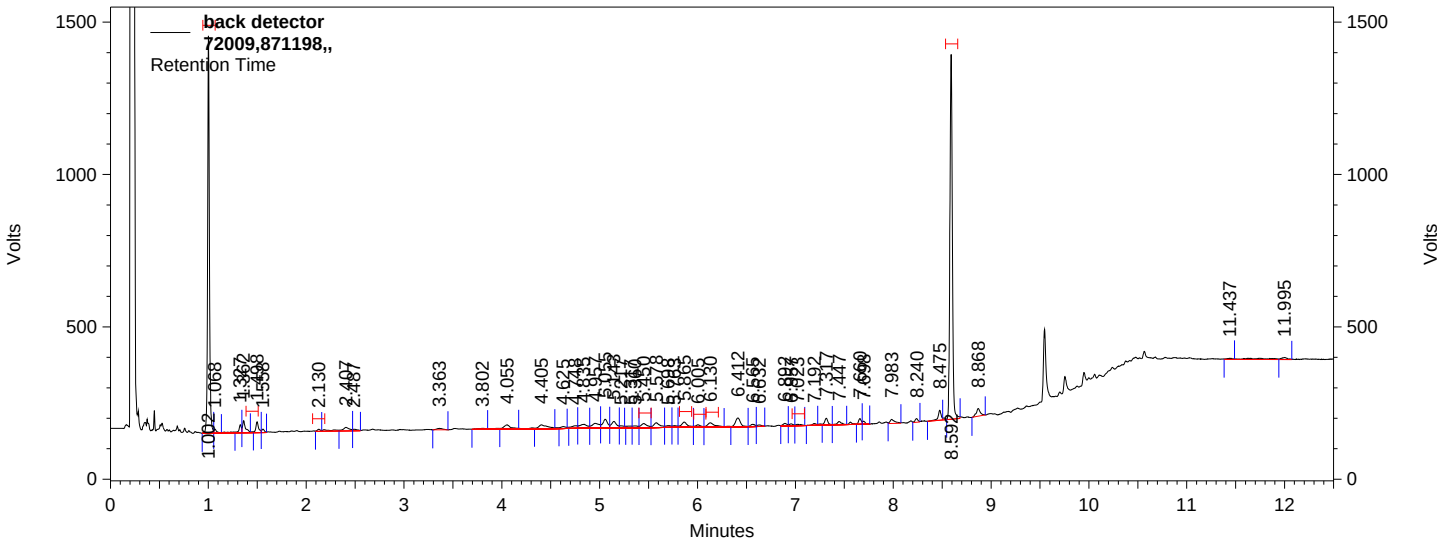
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.313	24912227	65.402
Aroclor 1016 #1	1.677	252556	0.000
Aroclor 1016 #2			0.000 BDL
Aroclor 1016 #3			0.000 BDL
Aroclor 1016 #4			0.000 BDL
Aroclor 1016 #5	3.917	259999	0.000
Aroclor 1260 #1	5.982	1372334	0.000
Aroclor 1260 #2	6.825	2087383	0.000
Aroclor 1260 #3	7.060	456553	0.000
Aroclor 1260 #4	7.935	384608	0.000
Aroclor 1260 #5	8.500	447826	0.000
SURRDCBPCB	9.027	30253146	66.394
Aroclor 1016		512555	0.000
Aroclor 1260		4748704	0.000

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\112410pcb\016.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\112410pcb.met
User: jjy
Sample ID: 72009,871198,,
Acquired: Nov 24,2010 16:00:34 JJY
Printed: Nov 24,2010 17:08:03 11/24/10

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.002	12769009	63.883
Aroclor 1016 #1	1.498	533043	0.003
Aroclor 1016 #2			0.000 BDL
Aroclor 1016 #3	2.130	123869	0.000
Aroclor 1016 #4			0.000 BDL
Aroclor 1016 #5			0.000 BDL
Aroclor 1260 #1	5.450	458840	0.000
Aroclor 1260 #2	5.865	563597	0.000
Aroclor 1260 #3	6.005	218315	0.000
Aroclor 1260 #4	6.130	548096	0.002
Aroclor 1260 #5	7.023	151011	0.000
SURRDCBPCB	8.592	16127196	72.467
Aroclor 1016		656912	0.003
Aroclor 1260		1939859	0.002

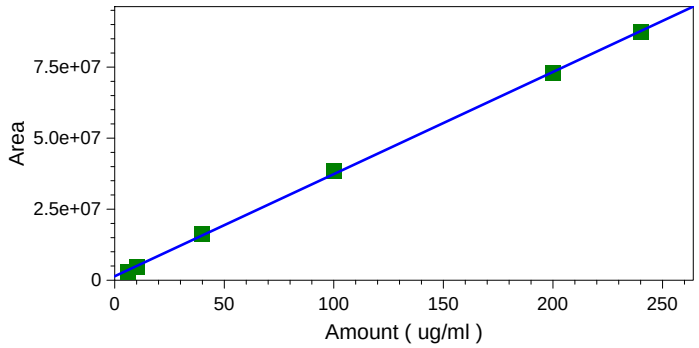
POLYCHLORINATED BIPHENYL INITIAL CALIBRATION DOCUMENTS

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:08 PM
User: jjy
Instrument: Semi 7

SURRTCMXPCB (front detector)
Average RF: 409924. RF StDev: 48563.9 RF %RSD: 11.8470
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 359389.x + 1.40759e+006
Goodness of fit (r^2): 0.999609

Peak: SURRTCMXPCB -- ESTD -- front detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	6	10	40	100	200
Area	2877929	4559783	16434860	38431877	72781121
RF	479654.8333 33333	455978.3	410871.5	384318.77	363905.605
Last Area Residual	1.90878	1.22902	-1.81334	-3.01997	1.40338
Rep StDev					
Rep %RSD					
Rep 1 Area	2877929	4559783	16434860	38431877	72781121
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	240	0	0
Area	87556068		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:08 PM
User: jjy
Instrument: Semi 7

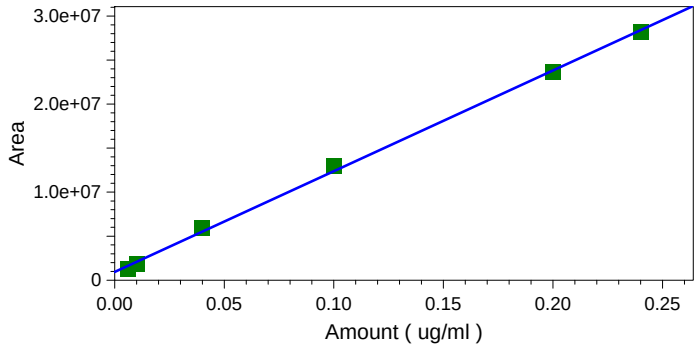
RF	364816.95		
Last Area			
Residual	0.292135	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	87556068		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:18 PM
User: jjy
Instrument: Semi 7

Aroclor 1016 #1 (front detector)
Average RF: 1.50168e+008 RF StDev: 3.66359e+007 RF %RSD: 24.3966
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 1.14417e+008x + 940027.
Goodness of fit (r^2): 0.998771

Peak: Aroclor 1016 #1 -- ESTD -- front detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	1247566	1799568	5884651	13008189	23644667
RF	207927666.666667	179956800	147116275	130081890	118223335
Last Area Residual	0.00331212	0.00248765	-0.0032158	-0.00547523	0.0015624
Rep StDev					
Rep %RSD					
Rep 1 Area	1247566	1799568	5884651	13008189	23644667
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	0.24	0	0
Area	28248069		

Calibration Report

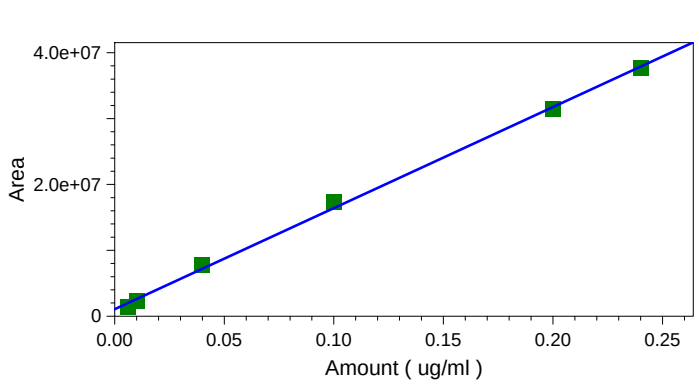
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:18 PM
User: jjy
Instrument: Semi 7

RF	117700287.5		
Last Area			
Residual	0.00132886	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	28248069		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:20 PM
User: jjy
Instrument: Semi 7

Aroclor 1016 #2 (front detector)
Average RF: 1.90912e+008 RF StDev: 3.51998e+007 RF %RSD: 18.4377
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 1.53427e+008x + 1.06944e+006
Goodness of fit (r^2): 0.998687



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	1436796	2259816	7716503	17269762	31416964
RF	239466000	225981600	192912575	172697620	157084820
Last Area Residual	0.00360565	0.00224141	-0.00332392	-0.0055897	0.00220235
Rep StDev					
Rep %RSD					
Rep 1 Area	1436796	2259816	7716503	17269762	31416964
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	0.24	0	0
Area	37759356		
RF	157330650		

Calibration Report

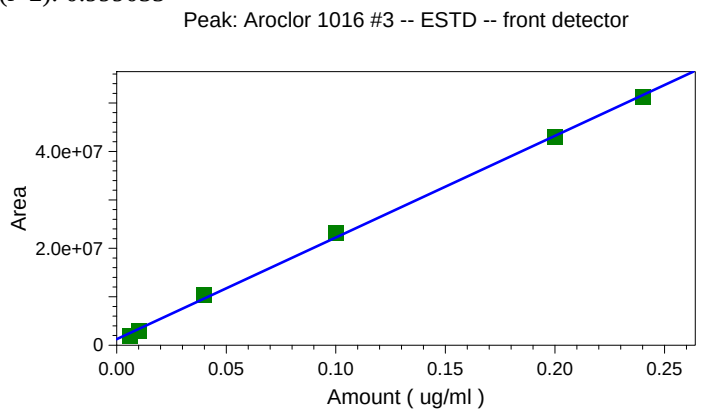
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:20 PM
User: jjy
Instrument: Semi 7

Last Area Residual	0.000864206	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	37759356		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:22 PM
User: jjy
Instrument: Semi 7

Aroclor 1016 #3 (front detector)
Average RF: 2.53441e+008 RF StDev: 4.08374e+007 RF %RSD: 16.1131
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 2.09897e+008x + 1.25326e+006
Goodness of fit (r^2): 0.999055



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	1876905	2895686	10288857	23209957	42994055
RF	312817500	289568600	257221425	232099570	214970275
Last Area					
Residual	0.00302882	0.00217511	-0.0030477	-0.00460687	0.00113702
Rep StDev					
Rep %RSD					
Rep 1 Area	1876905	2895686	10288857	23209957	42994055
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	0.24	0	0
Area	51352880		

Calibration Report

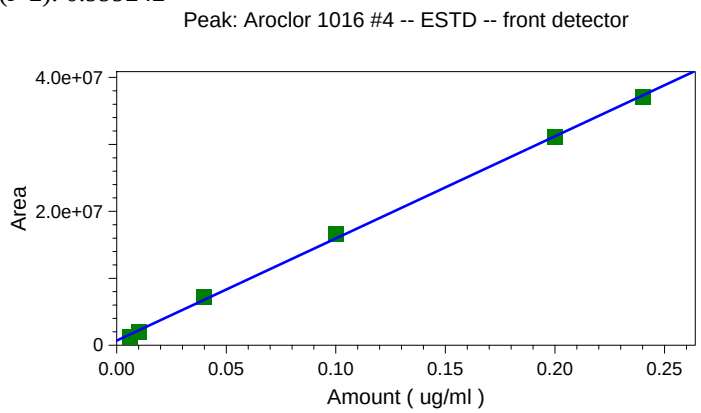
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:22 PM
User: jjy
Instrument: Semi 7

RF	213970333.333333		
Last Area Residual	0.00131361	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	51352880		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:23 PM
User: jjy
Instrument: Semi 7

Aroclor 1016 #4 (front detector)
Average RF: 1.74845e+008 RF StDev: 1.93917e+007 RF %RSD: 11.0908
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 1.52603e+008x + 692075.
Goodness of fit (r^2): 0.999242



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	1204209	1928289	7180234	16608554	31023058
RF	200701500	192828900	179505850	166085540	155115290
Last Area					
Residual	0.00264402	0.00189917	-0.00251646	-0.0042996	0.00124315
Rep StDev					
Rep %RSD					
Rep 1 Area	1204209	1928289	7180234	16608554	31023058
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	0.24	0	0
Area	37159767		
RF	154832362.5		

Calibration Report

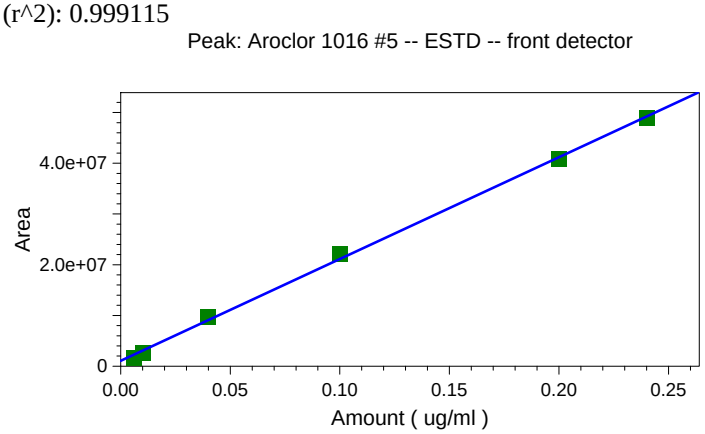
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:23 PM
User: jjy
Instrument: Semi 7

Last Area Residual	0.00102972	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	37159767		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:25 PM
User: jjy
Instrument: Semi 7

Aroclor 1016 #5 (front detector)
Average RF: 2.36971e+008 RF StDev: 3.30039e+007 RF %RSD: 13.9274
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 2.00561e+008x + 1.08111e+006
Goodness of fit (r^2): 0.999115



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	1690163	2688988	9684220	22038454	40899230
RF	281693833.333333	268898800	242105500	220384540	204496150
Last Area Residual	0.00296324	0.00198309	-0.00289524	-0.00449364	0.00146625
Rep StDev					
Rep %RSD					
Rep 1 Area	1690163	2688988	9684220	22038454	40899230
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	0.24	0	0
Area	49019931		

Calibration Report

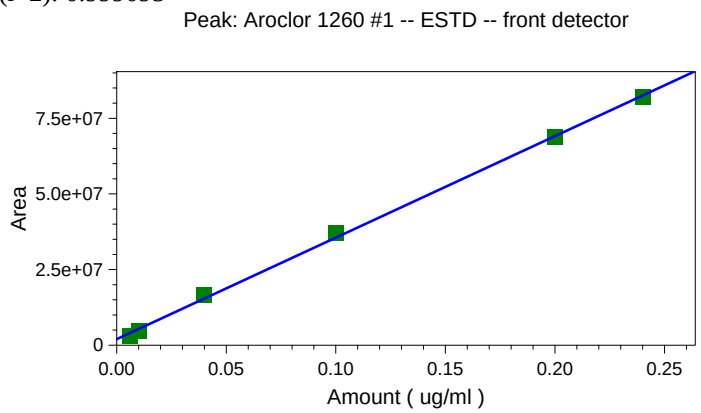
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:25 PM
User: jjy
Instrument: Semi 7

RF	204249712.5		
Last Area			
Residual	0.000976309	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	49019931		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:27 PM
User: jjy
Instrument: Semi 7

Aroclor 1260 #1 (front detector)
Average RF: 4.04385e+008 RF StDev: 6.40232e+007 RF %RSD: 15.8322
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 3.35734e+008x + 1.97503e+006
Goodness of fit (r^2): 0.999095



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	2967150	4641853	16469767	37005910	68644416
RF	494525000	464185300	411744175	370059100	343222080
Last Area					
Residual	0.00304492	0.00205673	-0.0031733	-0.00434124	0.00142188
Rep StDev					
Rep %RSD					
Rep 1 Area	2967150	4641853	16469767	37005910	68644416
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	0.24	0	0
Area	82218423		
RF	342576762.5		

Calibration Report

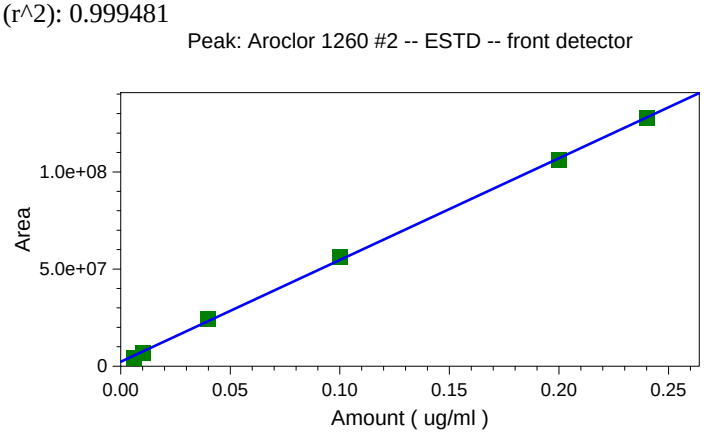
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:27 PM
User: jjy
Instrument: Semi 7

Last Area Residual	0.000991015	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	82218423		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:28 PM
User: jjy
Instrument: Semi 7

Aroclor 1260 #2 (front detector)
Average RF: 6.03637e+008 RF StDev: 7.50956e+007 RF %RSD: 12.4405
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 5.23996e+008x + 2.25239e+006
Goodness of fit (r^2): 0.999481



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	4248998	6762092	24422735	56329083	106040622
RF	708166333.333333	676209200	610568375	563290830	530203110
Last Area Residual	0.00218966	0.00139364	-0.00231011	-0.00320052	0.00192946
Rep StDev					
Rep %RSD					
Rep 1 Area	4248998	6762092	24422735	56329083	106040622
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	0.24	0	0
Area	128012621		

Calibration Report

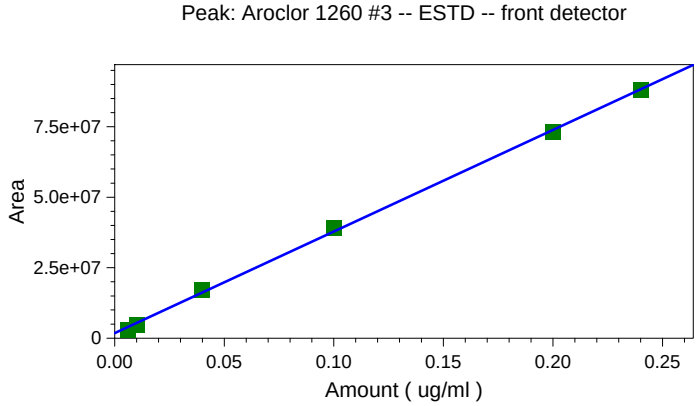
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:28 PM
User: jjy
Instrument: Semi 7

RF	533385920.833333		
Last Area Residual	-2.12746e-006	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	128012621		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:29 PM
User: jjy
Instrument: Semi 7

Aroclor 1260 #3 (front detector)
Average RF: 4.23965e+008 RF StDev: 6.01306e+007 RF %RSD: 14.1829
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 3.60264e+008x + 1.79527e+006
Goodness of fit (r^2): 0.999352



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	3043849	4821521	17225866	39043186	73128124
RF	507308166.666667	482152100	430646650	390431860	365640620
Last Area					
Residual	0.00253427	0.00159991	-0.00283133	-0.00339054	0.00199853
Rep StDev					
Rep %RSD					
Rep 1 Area	3043849	4821521	17225866	39043186	73128124
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	0.24	0	0
Area	88226577		

Calibration Report

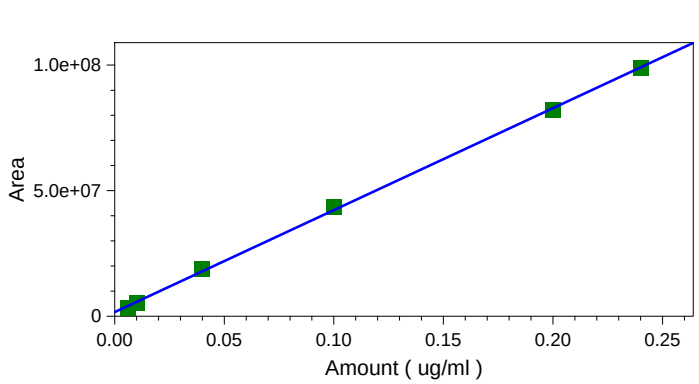
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:29 PM
User: jjy
Instrument: Semi 7

RF	367610737.5		
Last Area Residual	8.91488e-005	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	88226577		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:31 PM
User: jjy
Instrument: Semi 7

Aroclor 1260 #4 (front detector)
Average RF: 4.64141e+008 RF StDev: 5.47042e+007 RF %RSD: 11.7861
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 4.05968e+008x + 1.64790e+006
Goodness of fit (r^2): 0.999560



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	3244495	5152417	18873016	43341850	82171126
RF	540749166.666667	515241700	471825400	433418500	410855630
Last Area Residual	0.00206719	0.00136751	-0.00242973	-0.00270254	0.00165133
Rep StDev					
Rep %RSD					
Rep 1 Area	3244495	5152417	18873016	43341850	82171126
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	0.24	0	0
Area	99061458		

Calibration Report

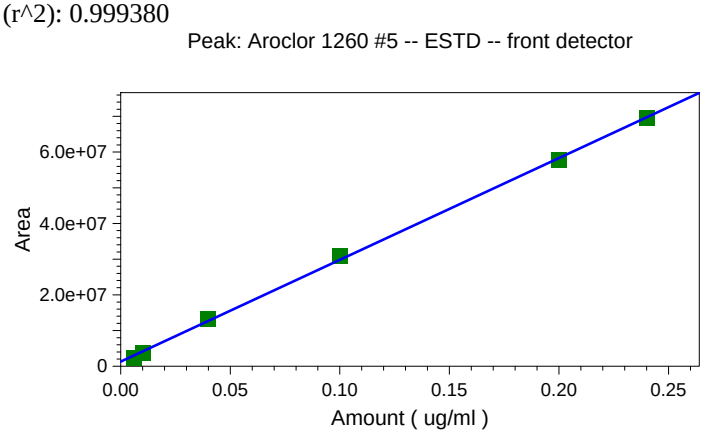
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:31 PM
User: jjy
Instrument: Semi 7

RF	412756075		
Last Area Residual	4.62493e-005	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	99061458		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:33 PM
User: jjy
Instrument: Semi 7

Aroclor 1260 #5 (front detector)
Average RF: 3.31521e+008 RF StDev: 4.49872e+007 RF %RSD: 13.5700
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 2.85046e+008x + 1.30478e+006
Goodness of fit (r^2): 0.999380



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	2407248	3662156	13358952	30874088	57716532
RF	401208000	366215600	333973800	308740880	288582660
Last Area					
Residual	0.00213232	0.00172984	-0.00228855	-0.00373532	0.00209577
Rep StDev					
Rep %RSD					
Rep 1 Area	2407248	3662156	13358952	30874088	57716532
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	0.24	0	0
Area	69696952		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:33 PM
User: jjy
Instrument: Semi 7

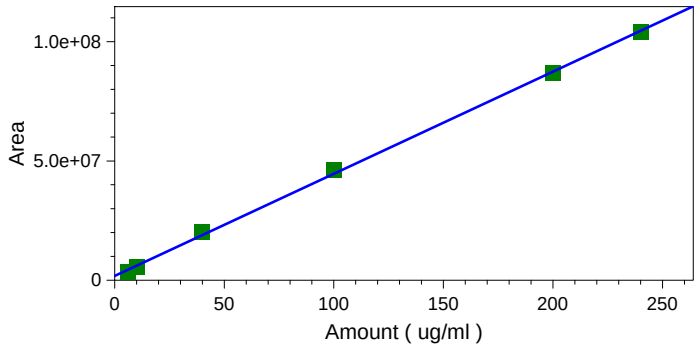
RF	290403966.666667		
Last Area Residual	6.59486e-005	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	69696952		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:34 PM
User: jjy
Instrument: Semi 7

SURRDCBPCB (front detector)
Average RF: 488559. RF StDev: 53917.1 RF %RSD: 11.0359
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 428182.x + 1.82446e+006
Goodness of fit (r^2): 0.999415

Peak: SURRDCBPCB -- ESTD -- front detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	6	10	40	100	200
Area	3372288	5376940	20041686	46141114	86934739
RF	562048	537694	501042.15	461411.14	434673.695
Last Area					
Residual	2.38511	1.70334	-2.54551	-3.49953	1.22882
Rep StDev					
Rep %RSD					
Rep 1 Area	3372288	5376940	20041686	46141114	86934739
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	240	0	0
Area	104276569		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:34 PM
User: jjy
Instrument: Semi 7

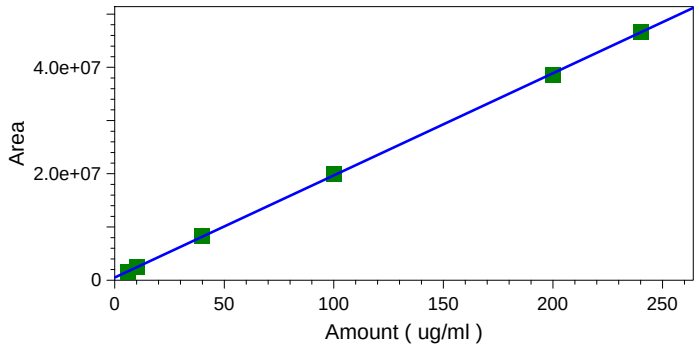
RF	434485.704166667		
Last Area Residual	0.72777	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	104276569		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:42 PM
User: jjy
Instrument: Semi 7

SURRTCMXPCB (back detector)
Average RF: 214143. RF StDev: 24729.6 RF %RSD: 11.5482
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 191947.x + 506835.
Goodness of fit (r^2): 0.999883

Peak: SURRTCMXPCB -- ESTD -- back detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	6	10	40	100	200
Area	1500033	2401761	8319713	19905994	38574203
RF	250005.5	240176.1	207992.825	199059.94	192871.015
Last Area					
Residual	0.825677	0.127888	-0.703232	-1.065	1.67808
Rep StDev					
Rep %RSD					
Rep 1 Area	1500033	2401761	8319713	19905994	38574203
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	240	0	0
Area	46739931		
RF	194749.7125		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:42 PM
User: jjy
Instrument: Semi 7

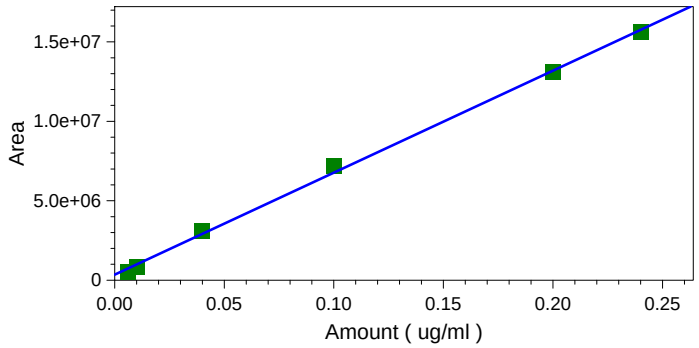
Last Area Residual	-0.863417	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	46739931		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:44 PM
User: jjy
Instrument: Semi 7

Aroclor 1016 #1 (back detector)
Average RF: 7.46394e+007 RF StDev: 8.58048e+006 RF %RSD: 11.4959
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 6.41964e+007x + 349472.
Goodness of fit (r^2): 0.998551

Peak: Aroclor 1016 #1 -- ESTD -- back detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	514334	819548	3111055	7172910	13084053
RF	85722333.3333	81954800	77776375	71729100	65420265
Last Area Residual	0.00343191	0.00267753	-0.00301771	-0.00628999	0.00163103
Rep StDev					
Rep %RSD					
Rep 1 Area	514334	819548	3111055	7172910	13084053
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	0.24	0	0
Area	15656006		

Calibration Report

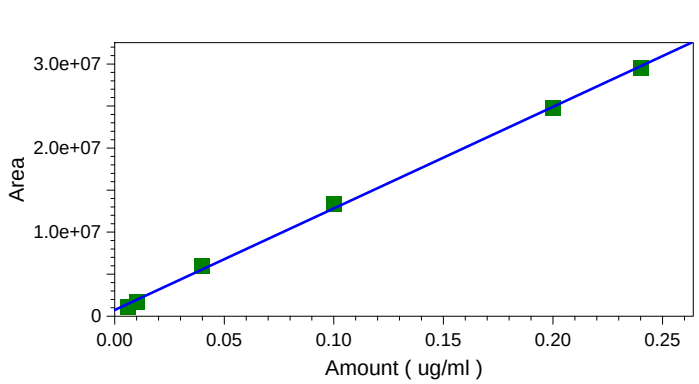
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:44 PM
User: jjy
Instrument: Semi 7

RF	65233358.3333333		
Last Area Residual	0.00156723	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	15656006		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:46 PM
User: jjy
Instrument: Semi 7

Aroclor 1016 #2 (back detector)
Average RF: 1.45923e+008 RF StDev: 2.31237e+007 RF %RSD: 15.8466
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 1.20901e+008x + 726875.
Goodness of fit (r^2): 0.999015



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	1063602	1691735	5922796	13396294	24757646
RF	177267000	169173500	148069900	133962940	123788230
Last Area					
Residual	0.00321485	0.00201942	-0.00297668	-0.00479172	0.00123589
Rep StDev					
Rep %RSD					
Rep 1 Area	1063602	1691735	5922796	13396294	24757646
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	0.24	0	0
Area	29586145		

Calibration Report

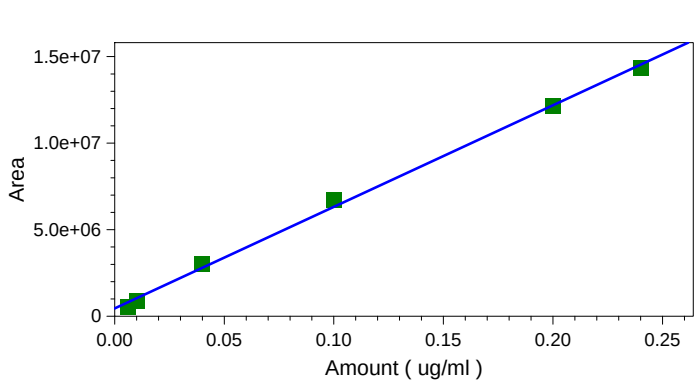
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:46 PM
User: jjy
Instrument: Semi 7

RF	123275604.166667		
Last Area Residual	0.00129824	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	29586145		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:47 PM
User: jjy
Instrument: Semi 7

Aroclor 1016 #3 (back detector)
Average RF: 7.36696e+007 RF StDev: 1.35531e+007 RF %RSD: 18.3972
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 5.87051e+007x + 449133.
Goodness of fit (r^2): 0.998169



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	557648	856764	3026584	6700644	12167843
RF	92941333.3333	85676400	75664600	67006440	60839215
Last Area Residual	0.00415152	0.00305629	-0.00390504	-0.00649001	0.000380177
Rep StDev					
Rep %RSD					
Rep 1 Area	557648	856764	3026584	6700644	12167843
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	0.24	0	0
Area	14373578		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:47 PM
User: jjy
Instrument: Semi 7

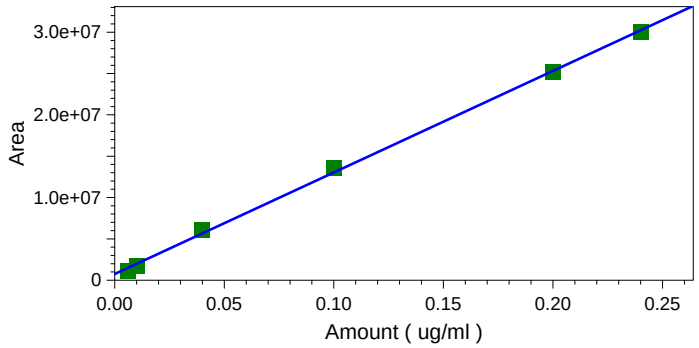
RF	59889908.3333333		
Last Area Residual	0.00280706	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	14373578		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:49 PM
User: jjy
Instrument: Semi 7

Aroclor 1016 #4 (back detector)
Average RF: 1.47949e+008 RF StDev: 2.28433e+007 RF %RSD: 15.4400
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 1.22891e+008x + 738798.
Goodness of fit (r^2): 0.998948

Peak: Aroclor 1016 #4 -- ESTD -- back detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	1073011	1703777	6046183	13626659	25138760
RF	178835166.666667	170377700	151154575	136266590	125693800
Last Area					
Residual	0.00328041	0.0021477	-0.00318765	-0.00487207	0.00145081
Rep StDev					
Rep %RSD					
Rep 1 Area	1073011	1703777	6046183	13626659	25138760
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	0.24	0	0
Area	30087592		

Calibration Report

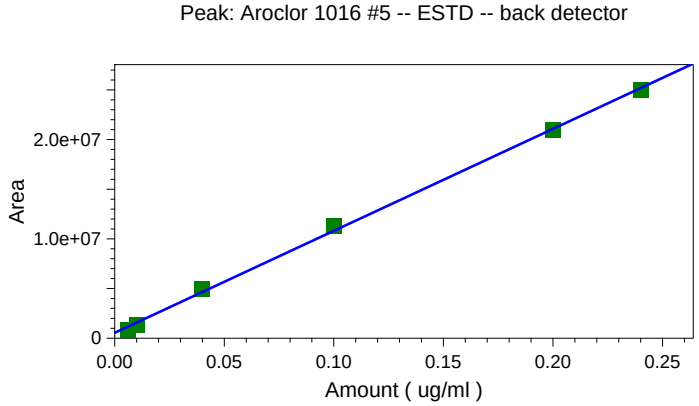
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:49 PM
User: jjy
Instrument: Semi 7

RF	125364966.666667		
Last Area Residual	0.0011808	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	30087592		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:50 PM
User: jjy
Instrument: Semi 7

Aroclor 1016 #5 (back detector)
Average RF: 1.20163e+008 RF StDev: 1.55174e+007 RF %RSD: 12.9136
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 1.02675e+008x + 539169.
Goodness of fit (r^2): 0.999047



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	855088	1322408	4973605	11271876	20965117
RF	142514666.666667	132240800	124340125	112718760	104825585
Last Area Residual	0.00292313	0.0023717	-0.00318885	-0.00453039	0.00106302
Rep StDev					
Rep %RSD					
Rep 1 Area	855088	1322408	4973605	11271876	20965117
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	0.24	0	0
Area	25041500		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:50 PM
User: jjy
Instrument: Semi 7

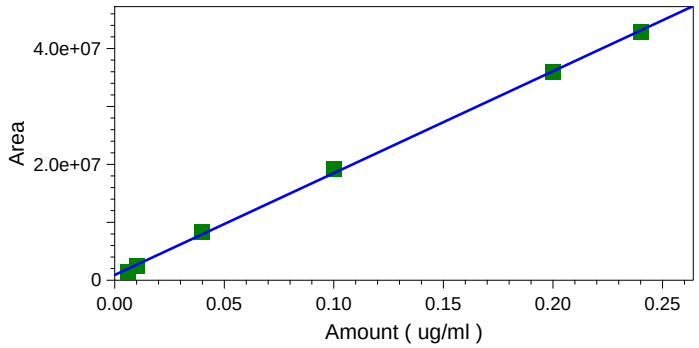
RF	104339583.333333		
Last Area Residual	0.00136139	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	25041500		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:52 PM
User: jjy
Instrument: Semi 7

Aroclor 1260 #1 (back detector)
Average RF: 2.07568e+008 RF StDev: 2.98179e+007 RF %RSD: 14.3653
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 1.75921e+008x + 899304.
Goodness of fit (r^2): 0.999359

Peak: Aroclor 1260 #1 -- ESTD -- back detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	1495406	2365259	8389496	19146167	35898821
RF	249234333.333333	236525900	209737400	191461670	179494105
Last Area Residual	0.00261153	0.00166697	-0.00257705	-0.00372199	0.00104967
Rep StDev					
Rep %RSD					
Rep 1 Area	1495406	2365259	8389496	19146167	35898821
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	0.24	0	0
Area	42949519		

Calibration Report

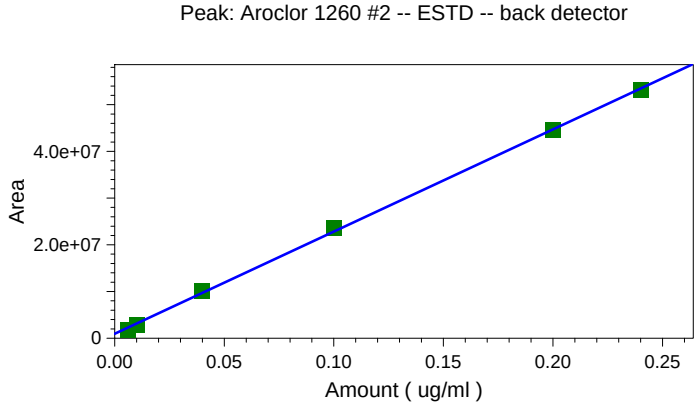
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:52 PM
User: jjy
Instrument: Semi 7

RF	178956329.166667		
Last Area Residual	0.000970867	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	42949519		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:53 PM
User: jjy
Instrument: Semi 7

Aroclor 1260 #2 (back detector)
Average RF: 2.52467e+008 RF StDev: 3.18306e+007 RF %RSD: 12.6078
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 2.18801e+008x + 955756.
Goodness of fit (r^2): 0.999525



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	1783959	2832875	10156128	23567247	44537294
RF	297326500	283287500	253903200	235672470	222686470
Last Area					
Residual	0.00221482	0.0014209	-0.00204897	-0.00334255	0.000816887
Rep StDev					
Rep %RSD					
Rep 1 Area	1783959	2832875	10156128	23567247	44537294
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	0.24	0	0
Area	53262650		

Calibration Report

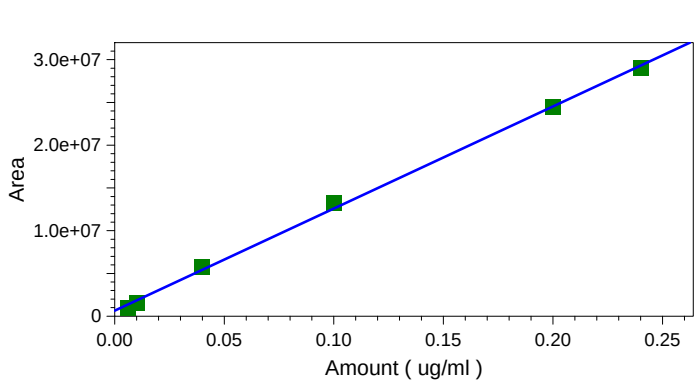
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:53 PM
User: jjy
Instrument: Semi 7

RF	221927708.333333		
Last Area Residual	0.000938909	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	53262650		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:55 PM
User: jjy
Instrument: Semi 7

Aroclor 1260 #3 (back detector)
Average RF: 1.39803e+008 RF StDev: 1.74952e+007 RF %RSD: 12.5142
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 1.19451e+008x + 643298.
Goodness of fit (r^2): 0.998897



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	973647	1569778	5758195	13218890	24443656
RF	162274500	156977800	143954875	132188900	122218280
Last Area					
Residual	0.00323443	0.00224383	-0.00282013	-0.00527845	0.00075175
Rep StDev					
Rep %RSD					
Rep 1 Area	973647	1569778	5758195	13218890	24443656
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	0.24	0	0
Area	29088283		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:55 PM
User: jjy
Instrument: Semi 7

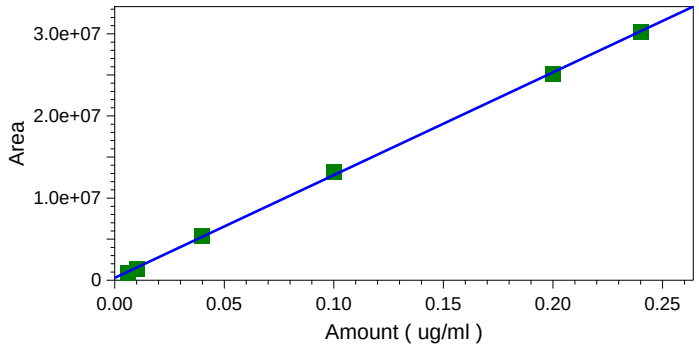
RF	121201179.166667		
Last Area Residual	0.00186856	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	29088283		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:56 PM
User: jjy
Instrument: Semi 7

Aroclor 1260 #4 (back detector)
Average RF: 1.34064e+008 RF StDev: 7.58546e+006 RF %RSD: 5.65809
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 1.25064e+008x + 294834.
Goodness of fit (r^2): 0.999684

Peak: Aroclor 1260 #4 -- ESTD -- back detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	866530	1402606	5443202	13177550	25128344
RF	144421666.666667	140260600	136080050	131775500	125641720
Last Area Residual	0.00142877	0.00114236	-0.00116585	-0.00300894	0.00143367
Rep StDev					
Rep %RSD					
Rep 1 Area	866530	1402606	5443202	13177550	25128344
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	0.24	0	0
Area	30288948		

Calibration Report

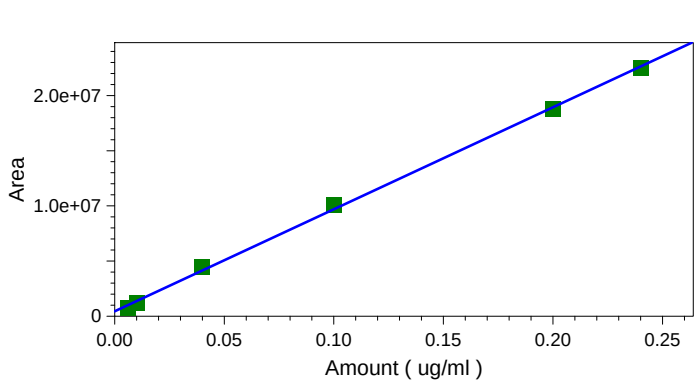
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:56 PM
User: jjy
Instrument: Semi 7

RF	126203950		
Last Area			
Residual	0.000169989	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	30288948		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:57 PM
User: jjy
Instrument: Semi 7

Aroclor 1260 #5 (back detector)
Average RF: 1.06283e+008 RF StDev: 1.16096e+007 RF %RSD: 10.9233
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 9.24869e+007x + 444768.
Goodness of fit (r^2): 0.999109



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	711768	1194390	4425357	10098414	18811261
RF	118628000	119439000	110633925	100984140	94056305
Last Area					
Residual	0.0031131	0.00189483	-0.00303948	-0.0043785	0.00141525
Rep StDev					
Rep %RSD					
Rep 1 Area	711768	1194390	4425357	10098414	18811261
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7
Amount	0.24	0
Area	22549624	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:57 PM
User: jjy
Instrument: Semi 7

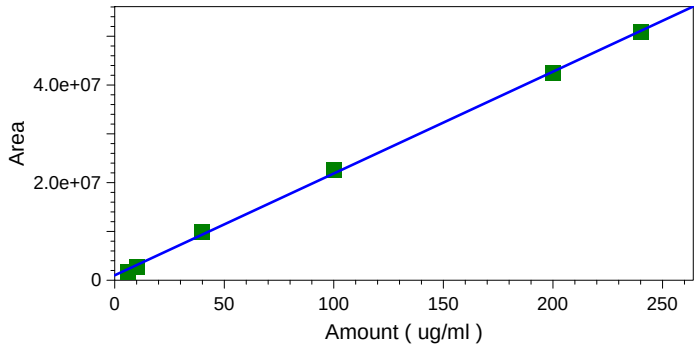
RF	93956766.6666667	
Last Area Residual	0.000994801	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	22549624	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat	
Rep 1 Sample ID	PCB ICAL 6 PP 3041	
Rep 1 Calib. Time	11/11/2010 7:19:27 PM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:59 PM
User: jjy
Instrument: Semi 7

SURRDCBPCB (back detector)
Average RF: 243420. RF StDev: 32164.9 RF %RSD: 13.2137
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 208635.x + 1.00792e+006
Goodness of fit (r^2): 0.999350

Peak: SURRDCBPCB -- ESTD -- back detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	6	10	40	100	200
Area	1728737	2735270	9930367	22617594	42408969
RF	288122.8333 33333	273527	248259.175	226175.94	212044.845
Last Area					
Residual	2.54508	1.72072	-2.76574	-3.57624	1.56272
Rep StDev					
Rep %RSD					
Rep 1 Area	1728737	2735270	9930367	22617594	42408969
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	240	0	0
Area	50973300		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:59 PM
User: jjy
Instrument: Semi 7

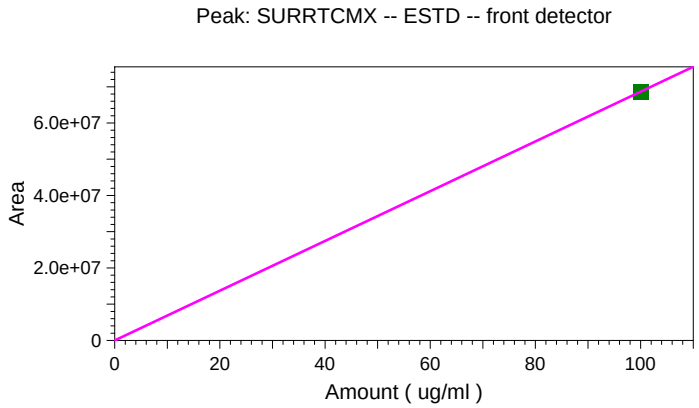
RF	212388.75		
Last Area			
Residual	0.513464	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	50973300		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1221.met
Print Time: 11/17/2010 1:45:34 PM
User: jjy
Instrument: Semi 7

SURRTCMX (front detector)
Average RF: 686464.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 686464.



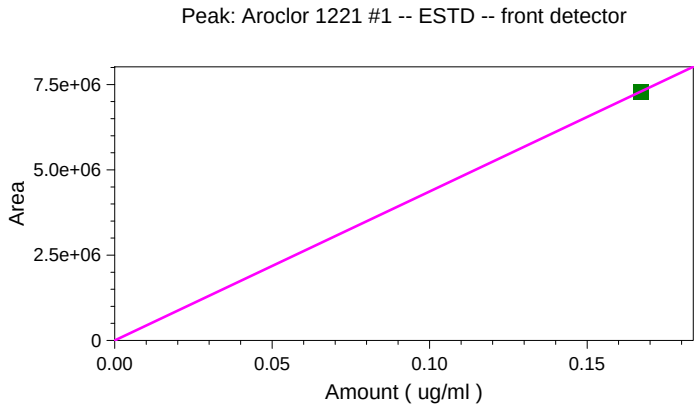
	Level 1	Level 11
Amount	100	0
Area	68646412	
RF	686464.12	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	68646412	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\012.dat	
Rep 1 Sample ID	PCB 1221 CF PP 3068	
Rep 1 Calib. Time	11/12/2010 8:49:12 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1221.met
Print Time: 11/17/2010 1:45:46 PM
User: jjy
Instrument: Semi 7

Aroclor 1221 #1 (front detector)
Average RF: 4.36660e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 4.36660e+007



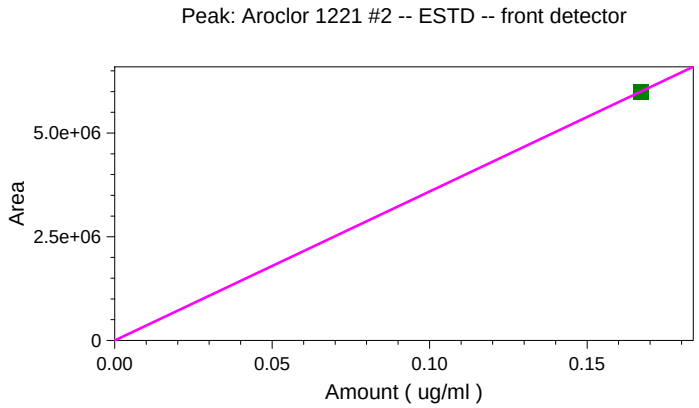
	Level 1	Level 11
Amount	0.167	0
Area	7292227	
RF	43666029.94 01198	
Last Area Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	7292227	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\012.dat	
Rep 1 Sample ID	PCB 1221 CF PP 3068	
Rep 1 Calib. Time	11/12/2010 8:49:12 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1221.met
Print Time: 11/17/2010 1:45:50 PM
User: jjy
Instrument: Semi 7

Aroclor 1221 #2 (front detector)
Average RF: 3.59187e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 3.59187e+007



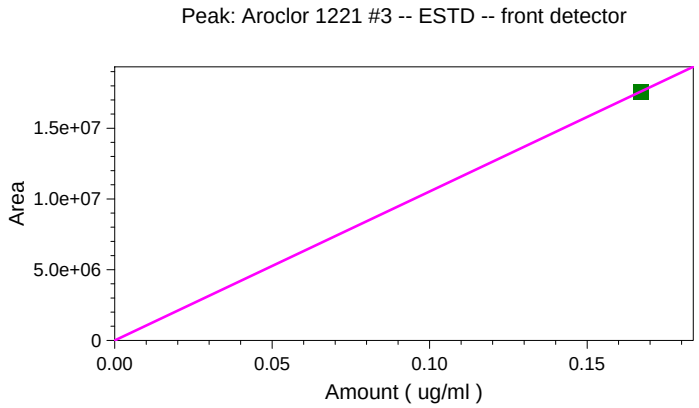
	Level 1	Level 11
Amount	0.167	0
Area	5998423	
RF	35918700.59	
	88024	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	5998423	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\012.dat	
Rep 1 Sample ID	PCB 1221 CF PP 3068	
Rep 1 Calib. Time	11/12/2010 8:49:12 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1221.met
Print Time: 11/17/2010 1:45:54 PM
User: jjy
Instrument: Semi 7

Aroclor 1221 #3 (front detector)
Average RF: 1.05289e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.05289e+008



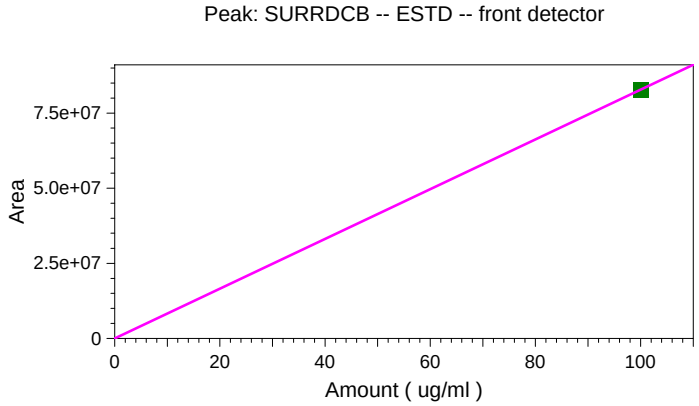
	Level 1	Level 11
Amount	0.167	0
Area	17583296	
RF	105289197.60479	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	17583296	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\012.dat	
Rep 1 Sample ID	PCB 1221 CF PP 3068	
Rep 1 Calib. Time	11/12/2010 8:49:12 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1221.met
Print Time: 11/17/2010 1:45:58 PM
User: jjy
Instrument: Semi 7

SURRDCB (front detector)
Average RF: 828015.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 828015.



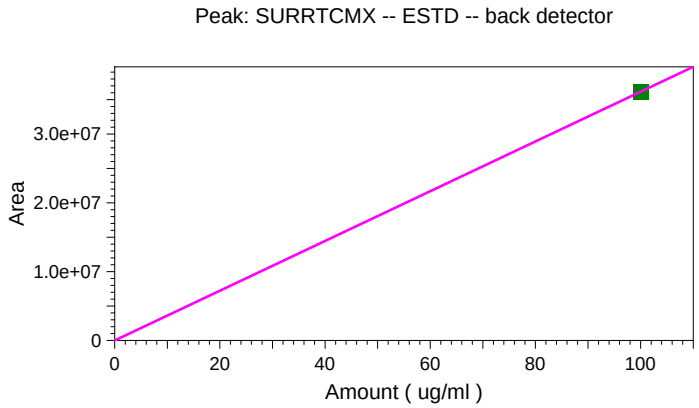
	Level 1	Level 11
Amount	100	0
Area	82801517	
RF	828015.17	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	82801517	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\012.dat	
Rep 1 Sample ID	PCB 1221 CF PP 3068	
Rep 1 Calib. Time	11/12/2010 8:49:12 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1221.met
Print Time: 11/17/2010 1:46:11 PM
User: jjy
Instrument: Semi 7

SURRTCMX (back detector)
Average RF: 361587.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 361587.



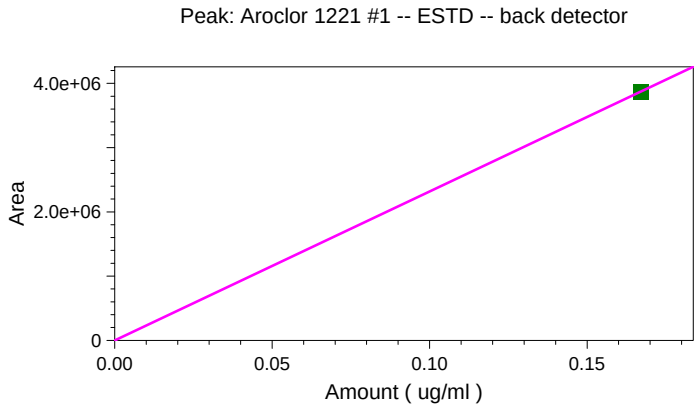
	Level 1	Level 11
Amount	100	0
Area	36158697	
RF	361586.97	
Last Area		
Residual	-1.42109e-014	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	36158697	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\012.dat	
Rep 1 Sample ID	PCB 1221 CF PP 3068	
Rep 1 Calib. Time	11/12/2010 8:49:12 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1221.met
Print Time: 11/17/2010 1:46:15 PM
User: jjy
Instrument: Semi 7

Aroclor 1221 #1 (back detector)
Average RF: 2.31803e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 2.31803e+007



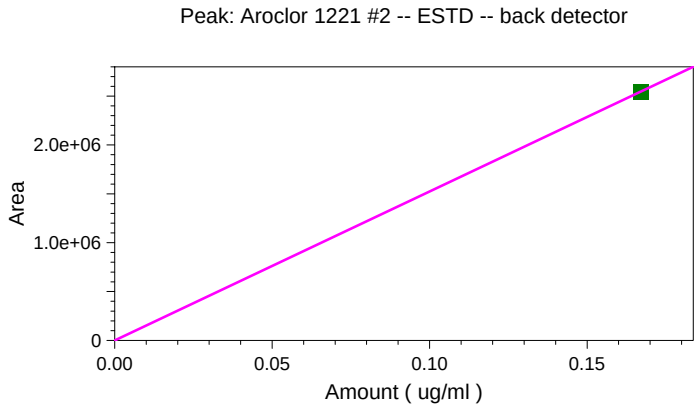
	Level 1	Level 11
Amount	0.167	0
Area	3871112	
RF	23180311.37	
	72455	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	3871112	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\012.dat	
Rep 1 Sample ID	PCB 1221 CF PP 3068	
Rep 1 Calib. Time	11/12/2010 8:49:12 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1221.met
Print Time: 11/17/2010 1:46:18 PM
User: jjy
Instrument: Semi 7

Aroclor 1221 #2 (back detector)
Average RF: 1.52432e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.52432e+007



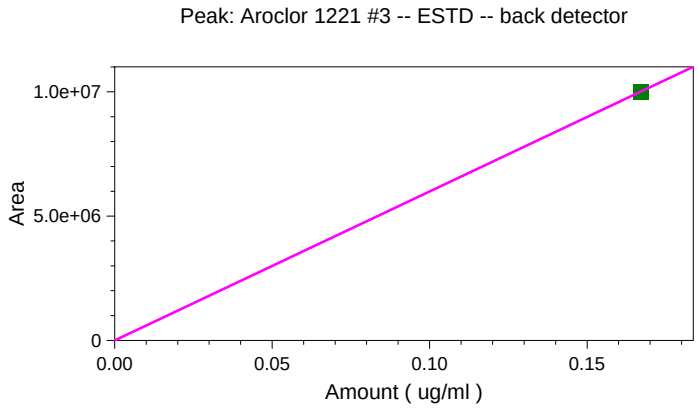
	Level 1	Level 11
Amount	0.167	0
Area	2545612	
RF	15243185.6287425	
Last Area Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	2545612	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\012.dat	
Rep 1 Sample ID	PCB 1221 CF PP 3068	
Rep 1 Calib. Time	11/12/2010 8:49:12 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1221.met
Print Time: 11/17/2010 1:46:22 PM
User: jjy
Instrument: Semi 7

Aroclor 1221 #3 (back detector)
Average RF: 5.99325e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 5.99325e+007



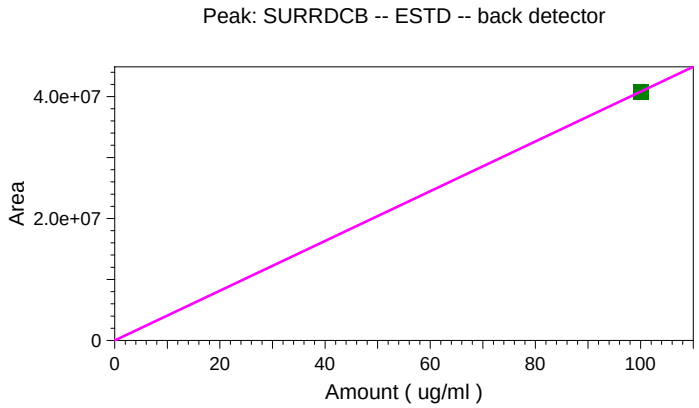
	Level 1	Level 11
Amount	0.167	0
Area	10008734	
RF	59932538.92	
	21557	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	10008734	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\012.dat	
Rep 1 Sample ID	PCB 1221 CF PP 3068	
Rep 1 Calib. Time	11/12/2010 8:49:12 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1221.met
Print Time: 11/17/2010 1:46:25 PM
User: jjy
Instrument: Semi 7

SURRDCB (back detector)
Average RF: 408015.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 408015.



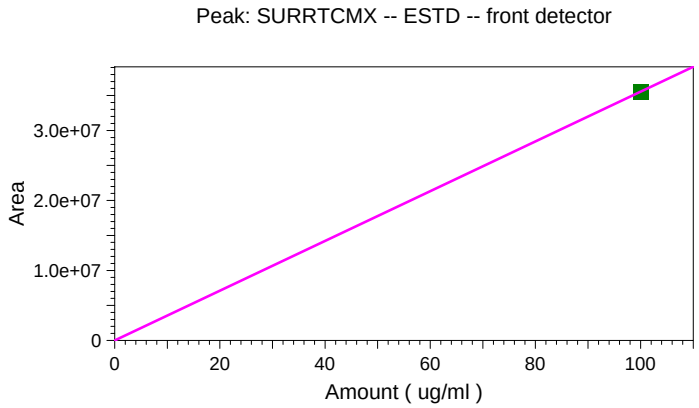
	Level 1	Level 11
Amount	100	0
Area	40801469	
RF	408014.69	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	40801469	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\012.dat	
Rep 1 Sample ID	PCB 1221 CF PP 3068	
Rep 1 Calib. Time	11/12/2010 8:49:12 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1232.met
Print Time: 11/17/2010 1:47:19 PM
User: jjy
Instrument: Semi 7

SURRTCMX (front detector)
Average RF: 355444.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 355444.



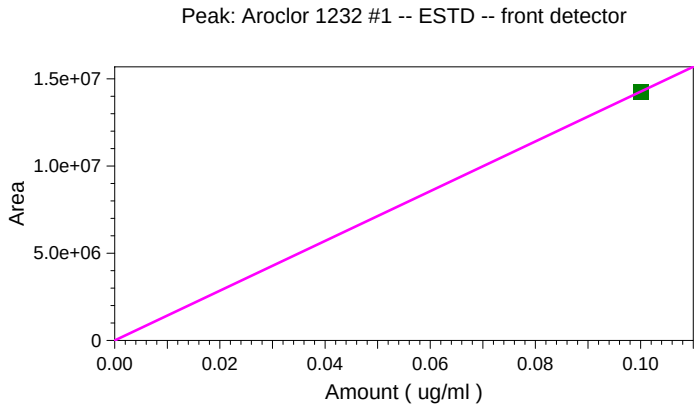
	Level 1	Level 11
Amount	100	0
Area	35544398	
RF	355443.98	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	35544398	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\013.dat	
Rep 1 Sample ID	PCB 1232 CF PP 3042	
Rep 1 Calib. Time	11/12/2010 8:49:35 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1232.met
Print Time: 11/17/2010 1:47:25 PM
User: jjy
Instrument: Semi 7

Aroclor 1232 #1 (front detector)
Average RF: 1.42647e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.42647e+008



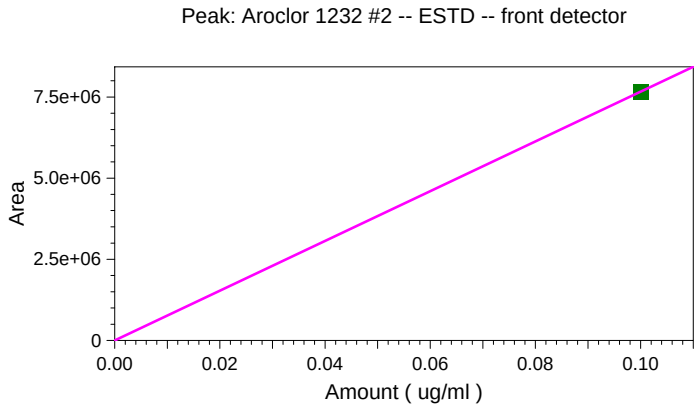
	Level 1	Level 11
Amount	0.1	0
Area	14264739	
RF	142647390	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	14264739	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\013.dat	
Rep 1 Sample ID	PCB 1232 CF PP 3042	
Rep 1 Calib. Time	11/12/2010 8:49:35 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1232.met
Print Time: 11/17/2010 1:47:28 PM
User: jjy
Instrument: Semi 7

Aroclor 1232 #2 (front detector)
Average RF: 7.66580e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 7.66580e+007



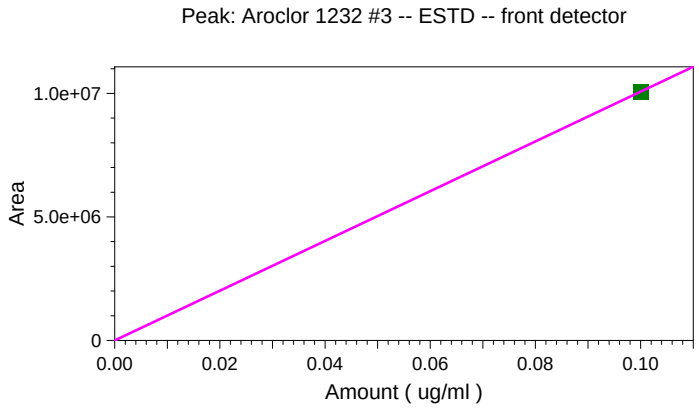
	Level 1	Level 11
Amount	0.1	0
Area	7665796	
RF	76657960	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	7665796	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\013.dat	
Rep 1 Sample ID	PCB 1232 CF PP 3042	
Rep 1 Calib. Time	11/12/2010 8:49:35 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1232.met
Print Time: 11/17/2010 1:47:31 PM
User: jjy
Instrument: Semi 7

Aroclor 1232 #3 (front detector)
Average RF: 1.00700e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.00700e+008



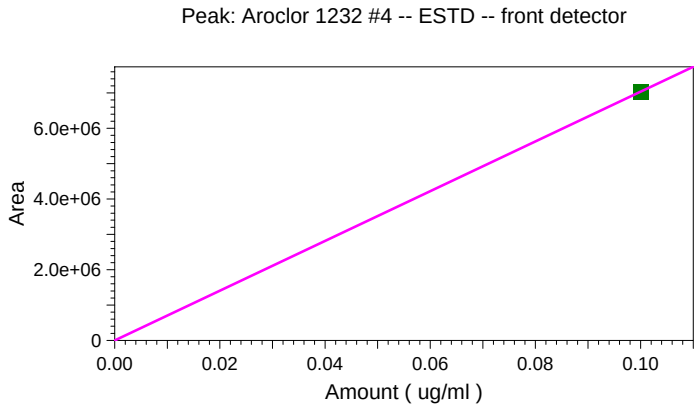
	Level 1	Level 11
Amount	0.1	0
Area	10070000	
RF	100700000	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	10070000	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\013.dat	
Rep 1 Sample ID	PCB 1232 CF PP 3042	
Rep 1 Calib. Time	11/12/2010 8:49:35 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1232.met
Print Time: 11/17/2010 1:47:35 PM
User: jjy
Instrument: Semi 7

Aroclor 1232 #4 (front detector)
Average RF: 7.03684e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 7.03684e+007



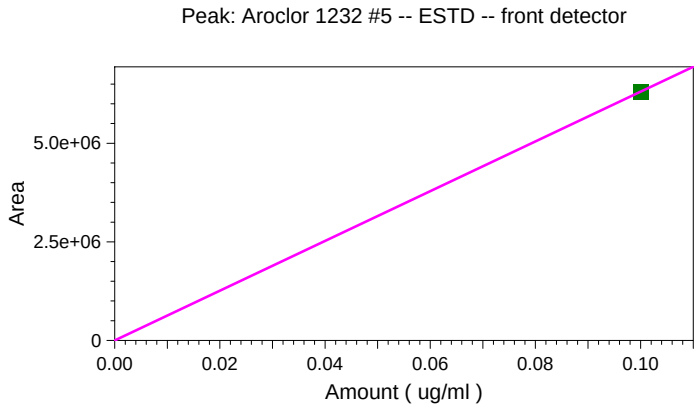
	Level 1	Level 11
Amount	0.1	0
Area	7036843	
RF	70368430	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	7036843	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\013.dat	
Rep 1 Sample ID	PCB 1232 CF PP 3042	
Rep 1 Calib. Time	11/12/2010 8:49:35 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1232.met
Print Time: 11/17/2010 1:47:40 PM
User: jjy
Instrument: Semi 7

Aroclor 1232 #5 (front detector)
Average RF: 6.30867e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 6.30867e+007



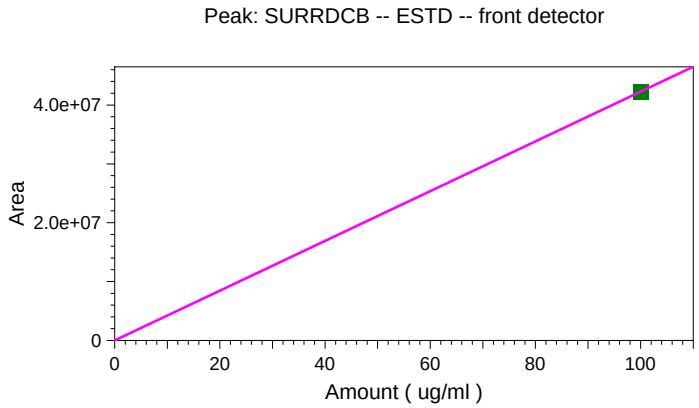
	Level 1
Amount	0.1
Area	6308673
RF	63086730
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	6308673
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\013.dat
Rep 1 Sample ID	PCB 1232 CF PP 3042
Rep 1 Calib. Time	11/12/2010 8:49:35 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1232.met
Print Time: 11/17/2010 1:47:45 PM
User: jjy
Instrument: Semi 7

SURRDCB (front detector)
Average RF: 422636.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 422636.



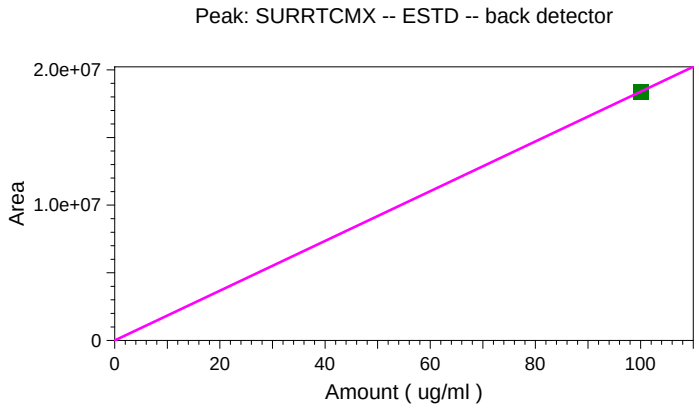
	Level 1
Amount	100
Area	42263613
RF	422636.13
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	42263613
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\013.dat
Rep 1 Sample ID	PCB 1232 CF PP 3042
Rep 1 Calib. Time	11/12/2010 8:49:35 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1232.met
Print Time: 11/17/2010 1:47:54 PM
User: jjy
Instrument: Semi 7

SURRTCMX (back detector)
Average RF: 183880.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 183880.



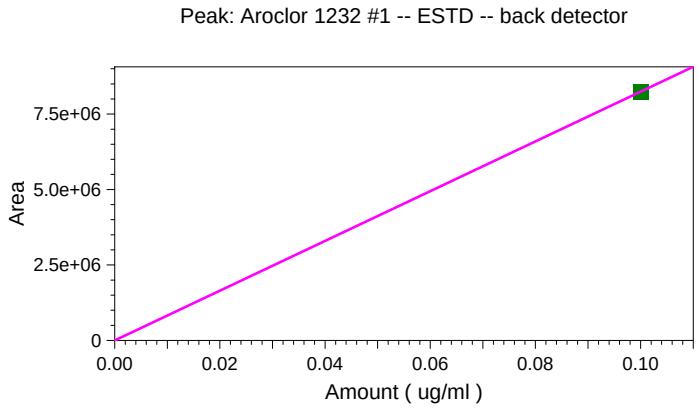
	Level 1	Level 11
Amount	100	0
Area	18388009	
RF	183880.09	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	18388009	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\013.dat	
Rep 1 Sample ID	PCB 1232 CF PP 3042	
Rep 1 Calib. Time	11/12/2010 8:49:35 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1232.met
Print Time: 11/17/2010 1:47:58 PM
User: jjy
Instrument: Semi 7

Aroclor 1232 #1 (back detector)
Average RF: 8.24204e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 8.24204e+007



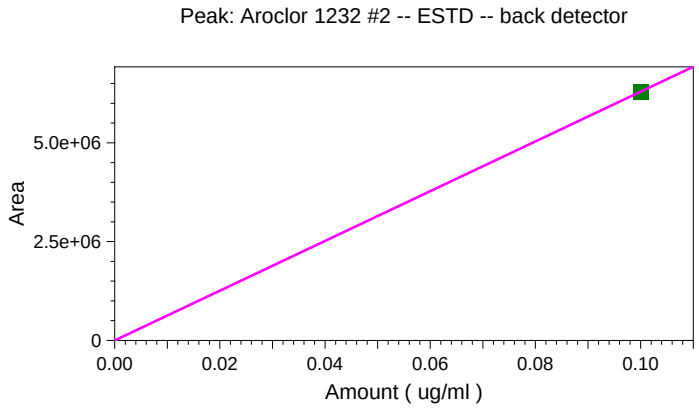
	Level 1	Level 11
Amount	0.1	0
Area	8242035	
RF	82420350	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	8242035	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\013.dat	
Rep 1 Sample ID	PCB 1232 CF PP 3042	
Rep 1 Calib. Time	11/12/2010 8:49:35 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1232.met
Print Time: 11/17/2010 1:48:01 PM
User: jjy
Instrument: Semi 7

Aroclor 1232 #2 (back detector)
Average RF: 6.29390e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 6.29390e+007



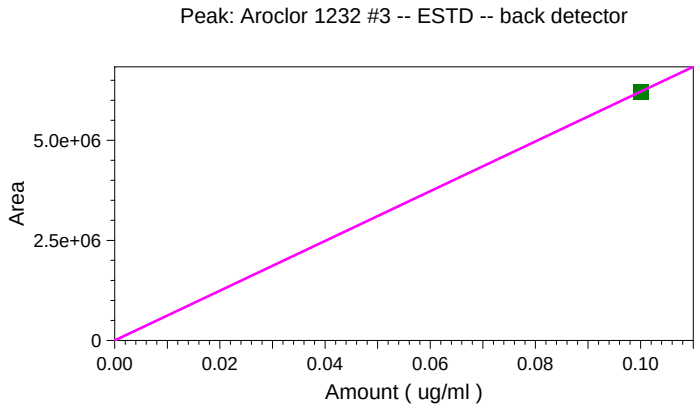
	Level 1	Level 11
Amount	0.1	0
Area	6293900	
RF	62939000	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	6293900	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\013.dat	
Rep 1 Sample ID	PCB 1232 CF PP 3042	
Rep 1 Calib. Time	11/12/2010 8:49:35 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1232.met
Print Time: 11/17/2010 1:48:05 PM
User: jjy
Instrument: Semi 7

Aroclor 1232 #3 (back detector)
Average RF: 6.21431e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 6.21431e+007



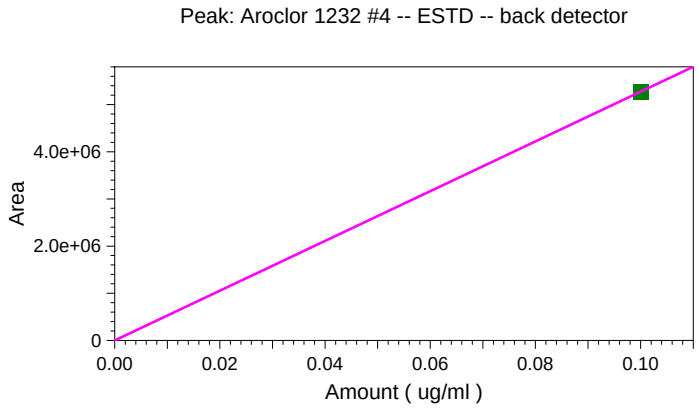
	Level 1	Level 11
Amount	0.1	0
Area	6214305	
RF	62143050	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	6214305	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\013.dat	
Rep 1 Sample ID	PCB 1232 CF PP 3042	
Rep 1 Calib. Time	11/12/2010 8:49:35 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1232.met
Print Time: 11/17/2010 1:48:08 PM
User: jjy
Instrument: Semi 7

Aroclor 1232 #4 (back detector)
Average RF: 5.27447e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 5.27447e+007



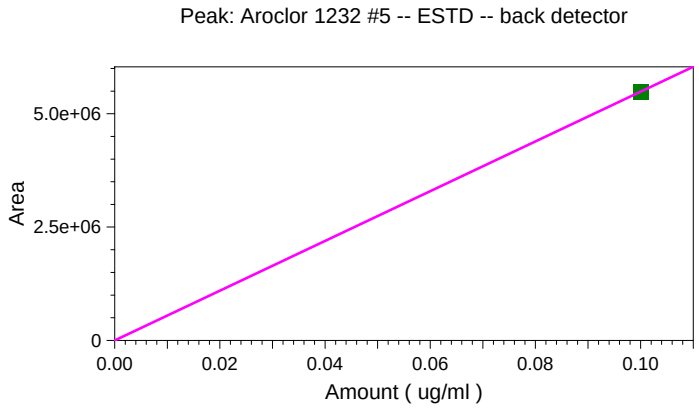
	Level 1	Level 11
Amount	0.1	0
Area	5274465	
RF	52744650	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	5274465	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\013.dat	
Rep 1 Sample ID	PCB 1232 CF PP 3042	
Rep 1 Calib. Time	11/12/2010 8:49:35 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1232.met
Print Time: 11/17/2010 1:48:12 PM
User: jjy
Instrument: Semi 7

Aroclor 1232 #5 (back detector)
Average RF: 5.48723e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 5.48723e+007



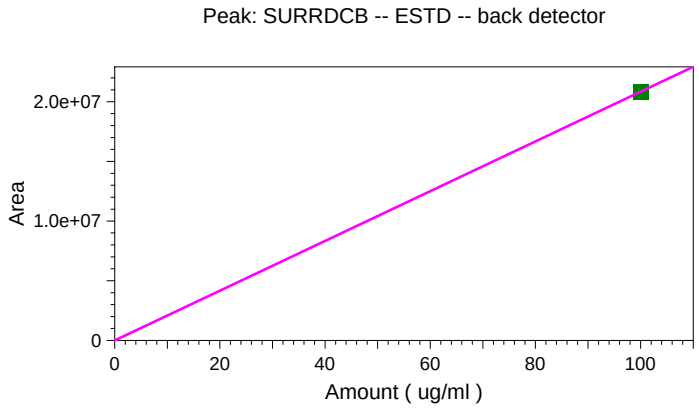
	Level 1
Amount	0.1
Area	5487232
RF	54872320
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	5487232
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\013.dat
Rep 1 Sample ID	PCB 1232 CF PP 3042
Rep 1 Calib. Time	11/12/2010 8:49:35 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1232.met
Print Time: 11/17/2010 1:48:16 PM
User: jjy
Instrument: Semi 7

SURRDCB (back detector)
Average RF: 208424.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 208424.



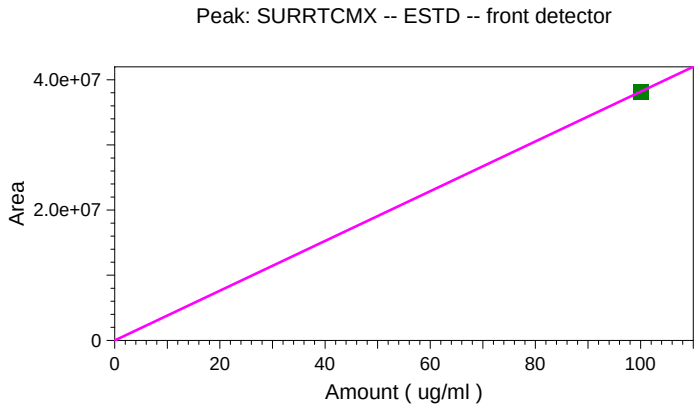
	Level 1
Amount	100
Area	20842377
RF	208423.77
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	20842377
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\013.dat
Rep 1 Sample ID	PCB 1232 CF PP 3042
Rep 1 Calib. Time	11/12/2010 8:49:35 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1242.met
Print Time: 11/17/2010 1:48:47 PM
User: jjy
Instrument: Semi 7

SURRTCMX (front detector)
Average RF: 381739.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 381739.



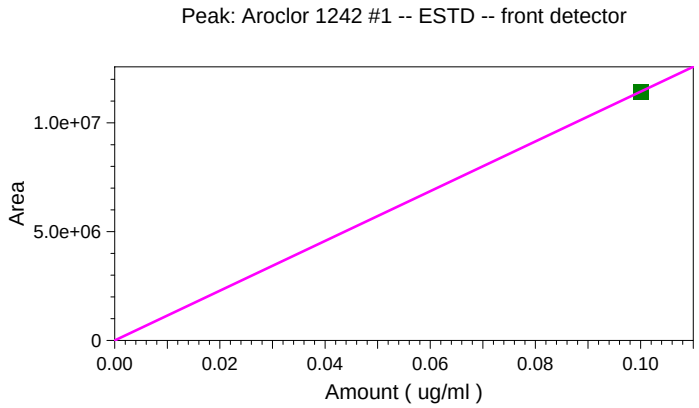
	Level 1	Level 11
Amount	100	0
Area	38173877	
RF	381738.77	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	38173877	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\014.dat	
Rep 1 Sample ID	PCB 1242 CF PP 3043	
Rep 1 Calib. Time	11/12/2010 8:49:48 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1242.met
Print Time: 11/17/2010 1:48:52 PM
User: jjy
Instrument: Semi 7

Aroclor 1242 #1 (front detector)
Average RF: 1.14356e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.14356e+008



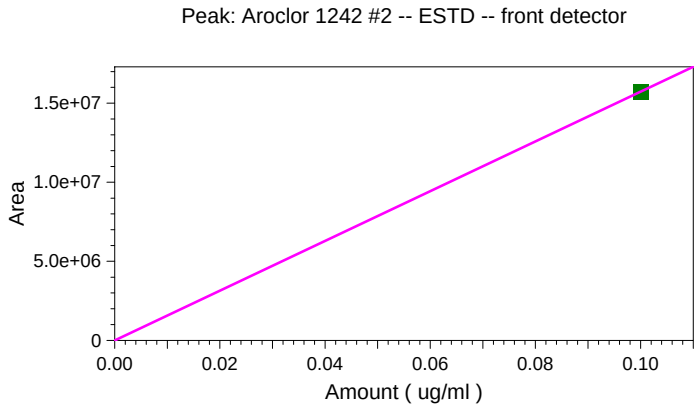
	Level 1	Level 11
Amount	0.1	0
Area	11435620	
RF	114356200	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	11435620	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\014.dat	
Rep 1 Sample ID	PCB 1242 CF PP 3043	
Rep 1 Calib. Time	11/12/2010 8:49:48 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1242.met
Print Time: 11/17/2010 1:48:56 PM
User: jjy
Instrument: Semi 7

Aroclor 1242 #2 (front detector)
Average RF: 1.57308e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.57308e+008



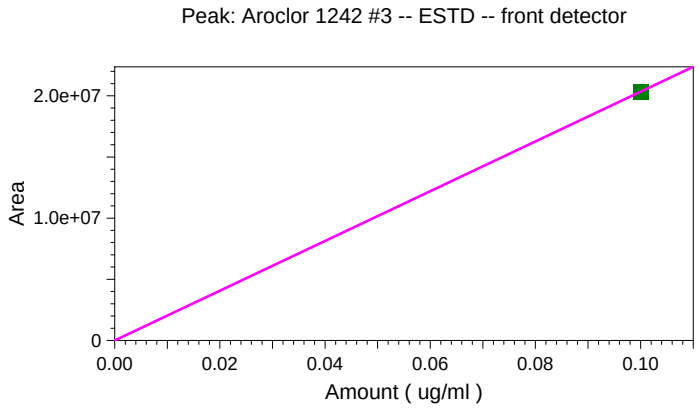
	Level 1	Level 11
Amount	0.1	0
Area	15730793	
RF	157307930	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	15730793	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\014.dat	
Rep 1 Sample ID	PCB 1242 CF PP 3043	
Rep 1 Calib. Time	11/12/2010 8:49:48 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1242.met
Print Time: 11/17/2010 1:48:59 PM
User: jjy
Instrument: Semi 7

Aroclor 1242 #3 (front detector)
Average RF: 2.03400e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 2.03400e+008



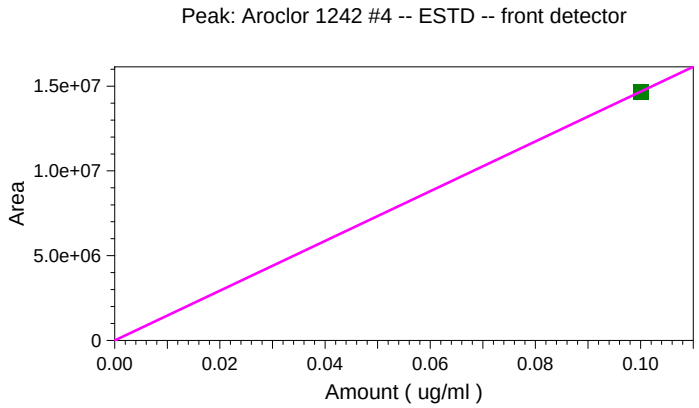
	Level 1	Level 11
Amount	0.1	0
Area	20340031	
RF	203400310	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	20340031	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\014.dat	
Rep 1 Sample ID	PCB 1242 CF PP 3043	
Rep 1 Calib. Time	11/12/2010 8:49:48 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1242.met
Print Time: 11/17/2010 1:49:03 PM
User: jjy
Instrument: Semi 7

Aroclor 1242 #4 (front detector)
Average RF: 1.46765e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.46765e+008



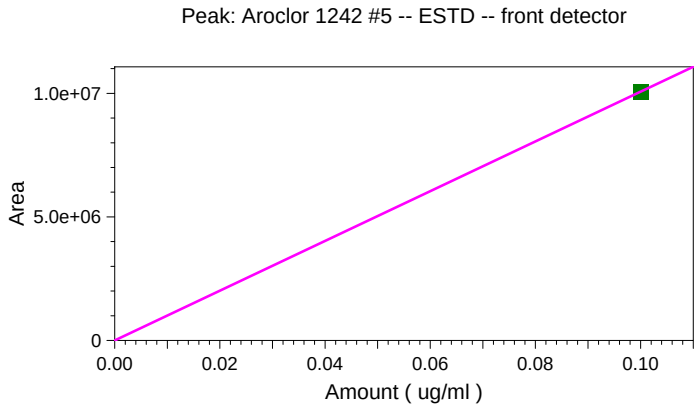
	Level 1	Level 11
Amount	0.1	0
Area	14676452	
RF	146764520	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	14676452	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\014.dat	
Rep 1 Sample ID	PCB 1242 CF PP 3043	
Rep 1 Calib. Time	11/12/2010 8:49:48 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1242.met
Print Time: 11/17/2010 1:49:07 PM
User: jjy
Instrument: Semi 7

Aroclor 1242 #5 (front detector)
Average RF: 1.00686e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.00686e+008



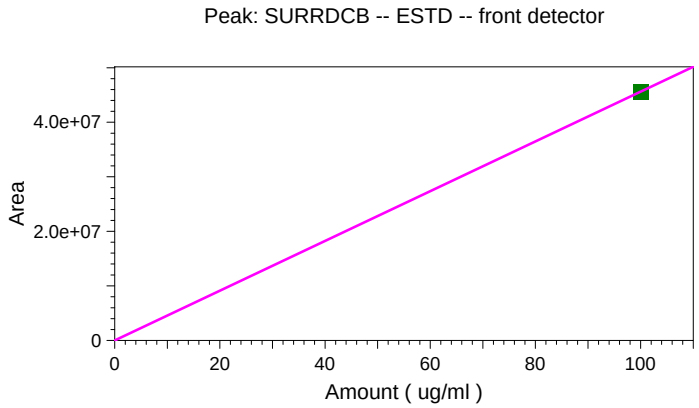
	Level 1
Amount	0.1
Area	10068554
RF	100685540
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	10068554
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\014.dat
Rep 1 Sample ID	PCB 1242 CF PP 3043
Rep 1 Calib. Time	11/12/2010 8:49:48 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1242.met
Print Time: 11/17/2010 1:49:10 PM
User: jjy
Instrument: Semi 7

SURRDCB (front detector)
Average RF: 456072.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 456072.



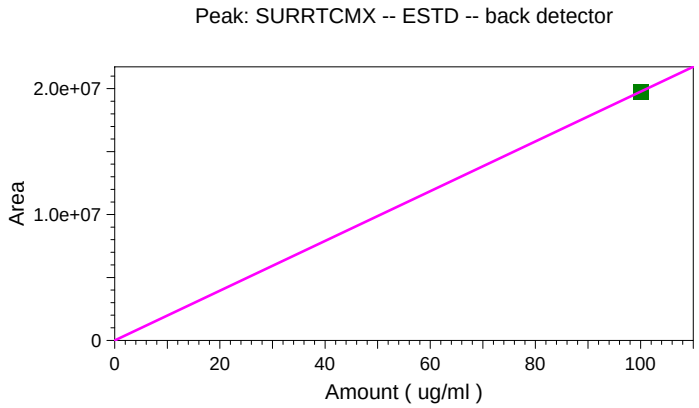
	Level 1
Amount	100
Area	45607215
RF	456072.15
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	45607215
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\014.dat
Rep 1 Sample ID	PCB 1242 CF PP 3043
Rep 1 Calib. Time	11/12/2010 8:49:48 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1242.met
Print Time: 11/17/2010 1:49:24 PM
User: jjy
Instrument: Semi 7

SURRTCMX (back detector)
Average RF: 197642.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 197642.



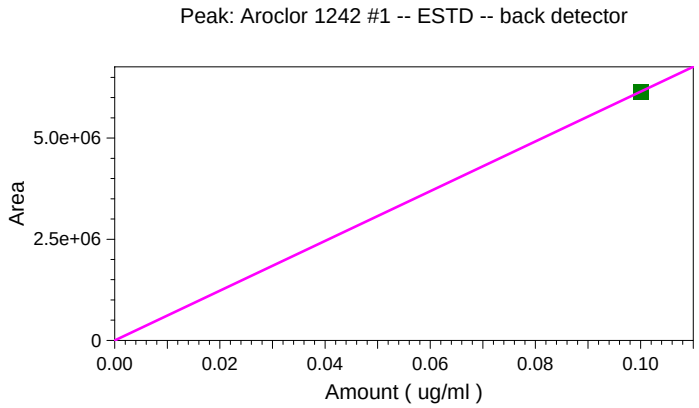
	Level 1	Level 11
Amount	100	0
Area	19764225	
RF	197642.25	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	19764225	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\014.dat	
Rep 1 Sample ID	PCB 1242 CF PP 3043	
Rep 1 Calib. Time	11/12/2010 8:49:48 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1242.met
Print Time: 11/17/2010 1:49:28 PM
User: jjy
Instrument: Semi 7

Aroclor 1242 #1 (back detector)
Average RF: 6.14713e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 6.14713e+007



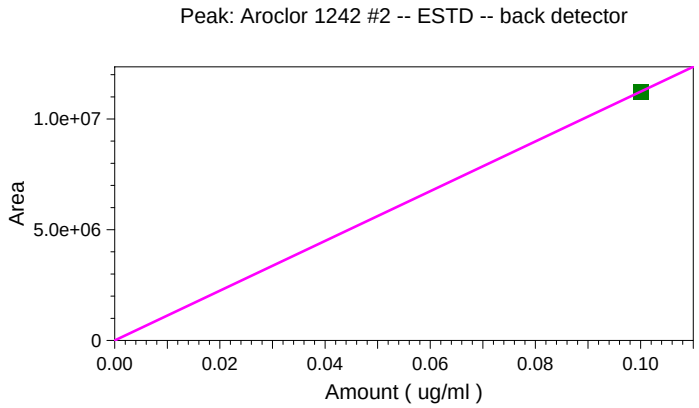
	Level 1	Level 11
Amount	0.1	0
Area	6147131	
RF	61471310	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	6147131	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\014.dat	
Rep 1 Sample ID	PCB 1242 CF PP 3043	
Rep 1 Calib. Time	11/12/2010 8:49:48 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1242.met
Print Time: 11/17/2010 1:49:31 PM
User: jjy
Instrument: Semi 7

Aroclor 1242 #2 (back detector)
Average RF: 1.12337e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.12337e+008



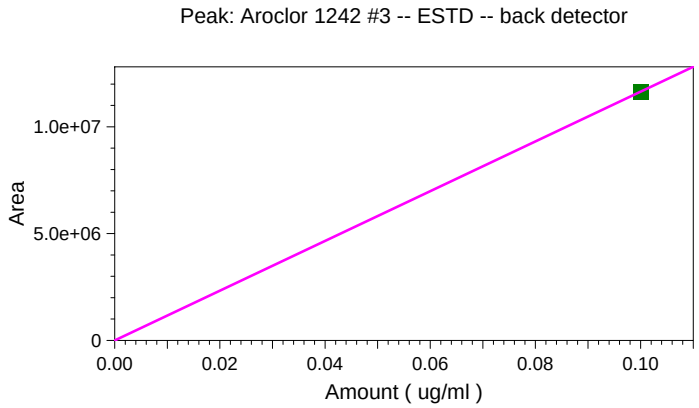
	Level 1	Level 11
Amount	0.1	0
Area	11233728	
RF	112337280	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	11233728	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\014.dat	
Rep 1 Sample ID	PCB 1242 CF PP 3043	
Rep 1 Calib. Time	11/12/2010 8:49:48 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1242.met
Print Time: 11/17/2010 1:49:35 PM
User: jjy
Instrument: Semi 7

Aroclor 1242 #3 (back detector)
Average RF: 1.16431e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.16431e+008



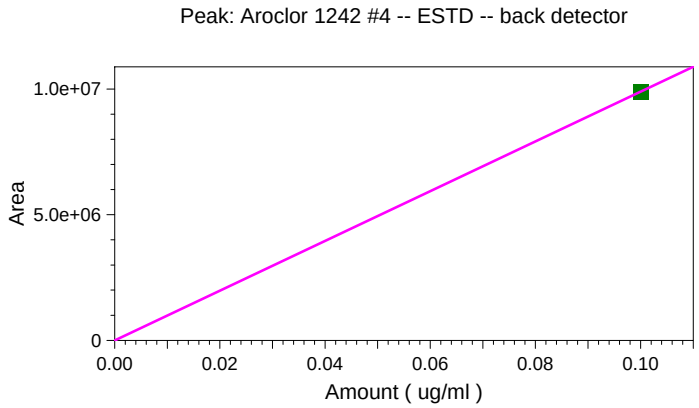
	Level 1	Level 11
Amount	0.1	0
Area	11643103	
RF	116431030	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	11643103	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\014.dat	
Rep 1 Sample ID	PCB 1242 CF PP 3043	
Rep 1 Calib. Time	11/12/2010 8:49:48 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1242.met
Print Time: 11/17/2010 1:49:38 PM
User: jjy
Instrument: Semi 7

Aroclor 1242 #4 (back detector)
Average RF: 9.89583e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 9.89583e+007



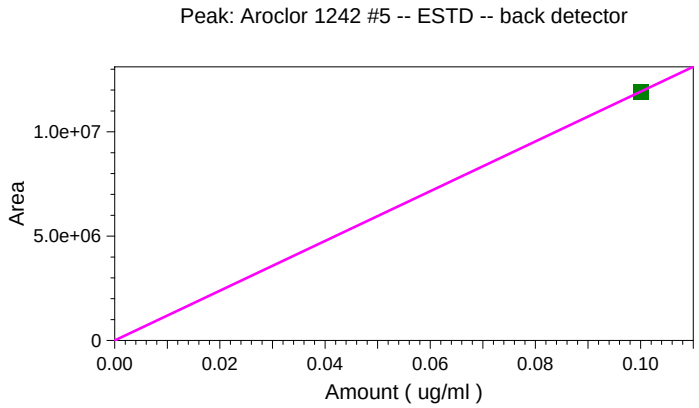
	Level 1	Level 11
Amount	0.1	0
Area	9895830	
RF	98958300	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	9895830	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\014.dat	
Rep 1 Sample ID	PCB 1242 CF PP 3043	
Rep 1 Calib. Time	11/12/2010 8:49:48 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1242.met
Print Time: 11/17/2010 1:49:42 PM
User: jjy
Instrument: Semi 7

Aroclor 1242 #5 (back detector)
Average RF: 1.19238e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.19238e+008



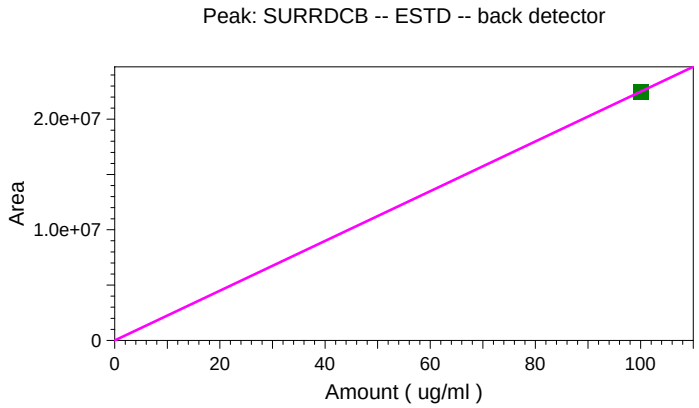
	Level 1
Amount	0.1
Area	11923842
RF	119238420
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	11923842
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\014.dat
Rep 1 Sample ID	PCB 1242 CF PP 3043
Rep 1 Calib. Time	11/12/2010 8:49:48 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1242.met
Print Time: 11/17/2010 1:49:46 PM
User: jjy
Instrument: Semi 7

SURRDCB (back detector)
Average RF: 224875.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 224875.



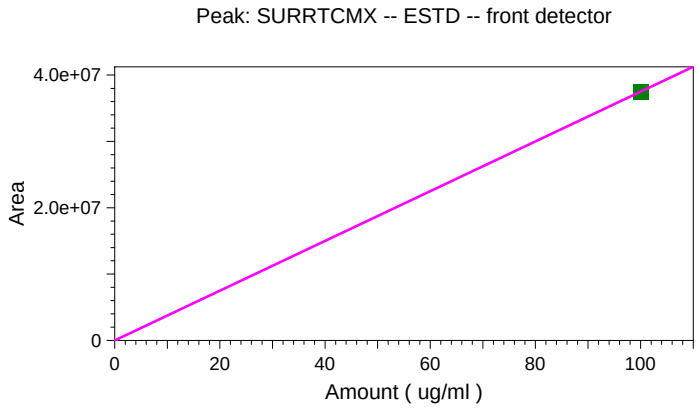
	Level 1
Amount	100
Area	22487451
RF	224874.51
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	22487451
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\014.dat
Rep 1 Sample ID	PCB 1242 CF PP 3043
Rep 1 Calib. Time	11/12/2010 8:49:48 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1248.met
Print Time: 11/17/2010 1:50:24 PM
User: jjy
Instrument: Semi 7

SURRTCMX (front detector)
Average RF: 374981.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 374981.



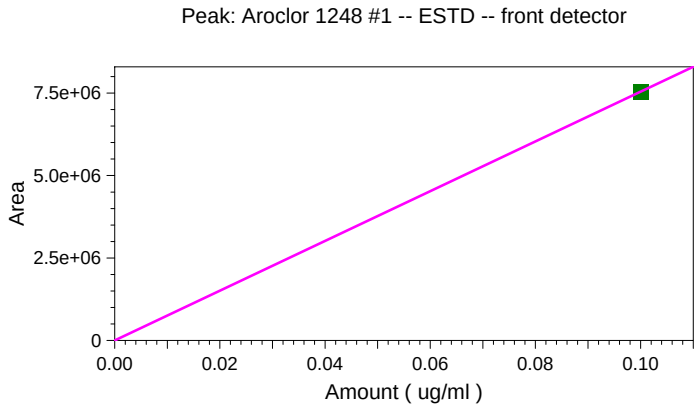
	Level 1	Level 11
Amount	100	0
Area	37498125	
RF	374981.25	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	37498125	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\015.dat	
Rep 1 Sample ID	PCB 1248 CF PP 3044	
Rep 1 Calib. Time	11/12/2010 8:50:04 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1248.met
Print Time: 11/17/2010 1:50:30 PM
User: jjy
Instrument: Semi 7

Aroclor 1248 #1 (front detector)
Average RF: 7.54449e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 7.54449e+007



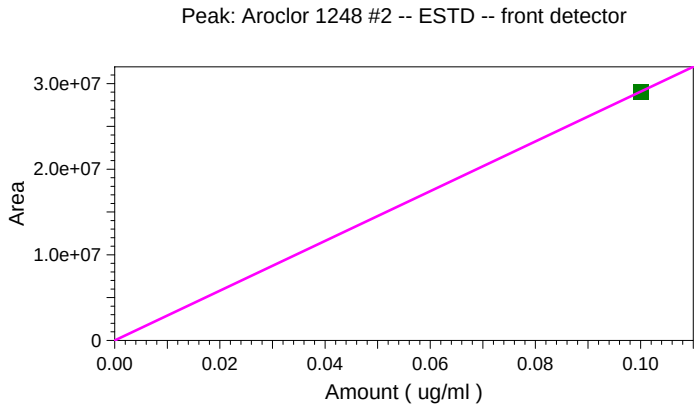
	Level 1	Level 11
Amount	0.1	0
Area	7544494	
RF	75444940	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	7544494	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\015.dat	
Rep 1 Sample ID	PCB 1248 CF PP 3044	
Rep 1 Calib. Time	11/12/2010 8:50:04 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1248.met
Print Time: 11/17/2010 1:50:33 PM
User: jjy
Instrument: Semi 7

Aroclor 1248 #2 (front detector)
Average RF: 2.90586e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 2.90586e+008



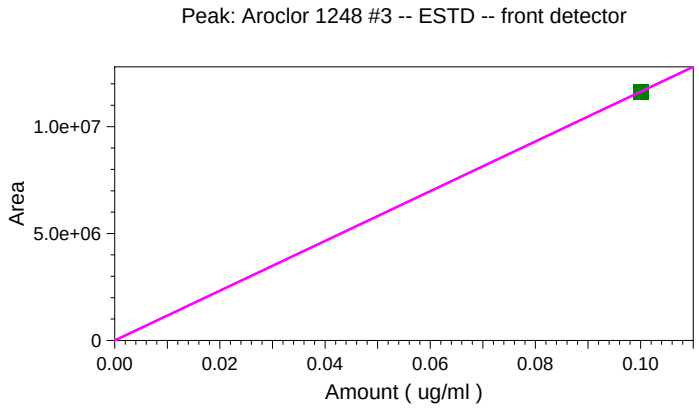
	Level 1	Level 11
Amount	0.1	0
Area	29058607	
RF	290586070	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	29058607	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\015.dat	
Rep 1 Sample ID	PCB 1248 CF PP 3044	
Rep 1 Calib. Time	11/12/2010 8:50:04 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1248.met
Print Time: 11/17/2010 1:50:38 PM
User: jjy
Instrument: Semi 7

Aroclor 1248 #3 (front detector)
Average RF: 1.16351e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.16351e+008



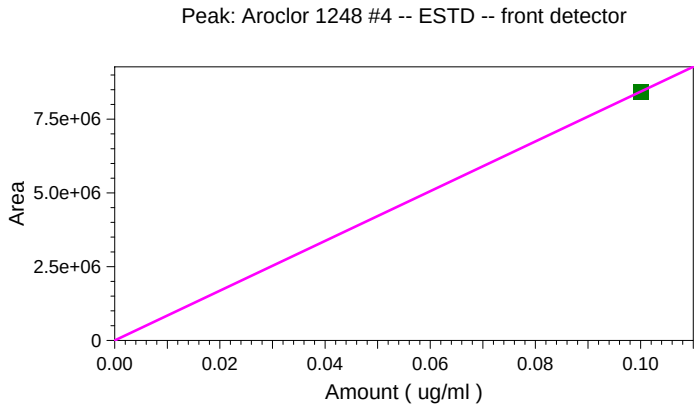
	Level 1	Level 11
Amount	0.1	0
Area	11635053	
RF	116350530	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	11635053	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\015.dat	
Rep 1 Sample ID	PCB 1248 CF PP 3044	
Rep 1 Calib. Time	11/12/2010 8:50:04 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1248.met
Print Time: 11/17/2010 1:50:42 PM
User: jjy
Instrument: Semi 7

Aroclor 1248 #4 (front detector)
Average RF: 8.43159e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 8.43159e+007



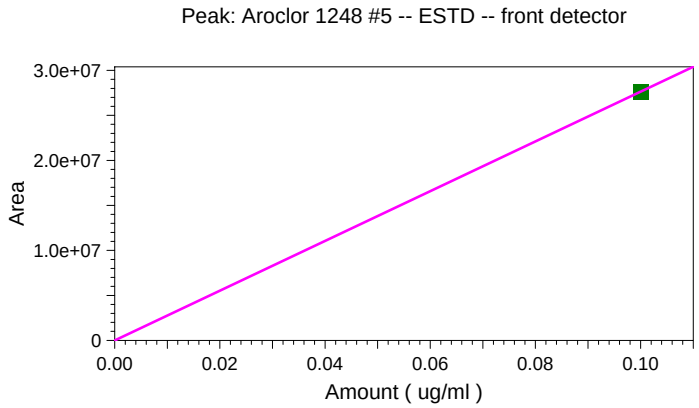
	Level 1	Level 11
Amount	0.1	0
Area	8431591	
RF	84315910	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	8431591	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\015.dat	
Rep 1 Sample ID	PCB 1248 CF PP 3044	
Rep 1 Calib. Time	11/12/2010 8:50:04 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1248.met
Print Time: 11/17/2010 1:50:45 PM
User: jjy
Instrument: Semi 7

Aroclor 1248 #5 (front detector)
Average RF: 2.76346e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 2.76346e+008



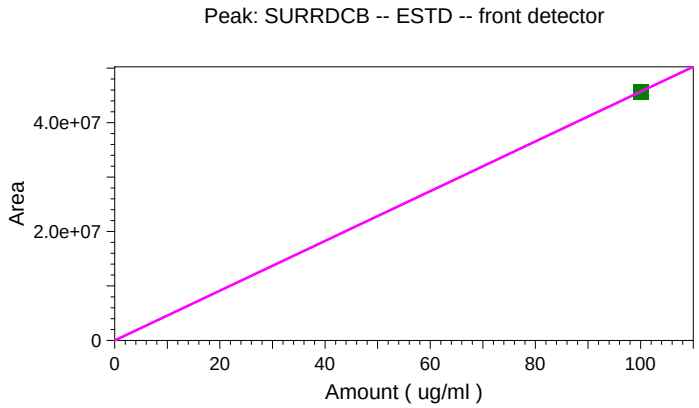
	Level 1
Amount	0.1
Area	27634595
RF	276345950
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	27634595
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\015.dat
Rep 1 Sample ID	PCB 1248 CF PP 3044
Rep 1 Calib. Time	11/12/2010 8:50:04 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1248.met
Print Time: 11/17/2010 1:50:49 PM
User: jjy
Instrument: Semi 7

SURRDCB (front detector)
Average RF: 456817.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 456817.



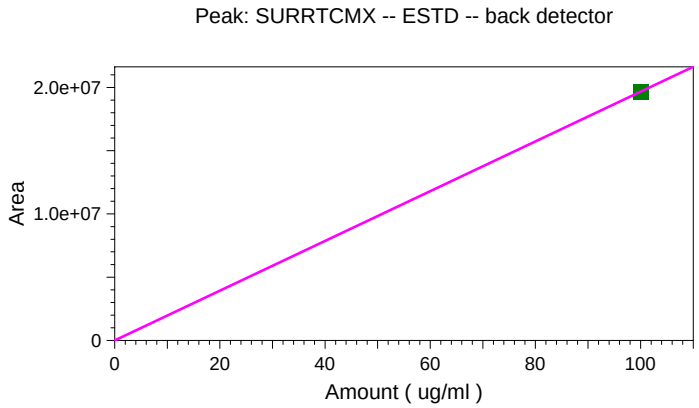
	Level 1
Amount	100
Area	45681722
RF	456817.22
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	45681722
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\015.dat
Rep 1 Sample ID	PCB 1248 CF PP 3044
Rep 1 Calib. Time	11/12/2010 8:50:04 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1248.met
Print Time: 11/17/2010 1:50:57 PM
User: jjy
Instrument: Semi 7

SURRTCMX (back detector)
Average RF: 196673.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 196673.



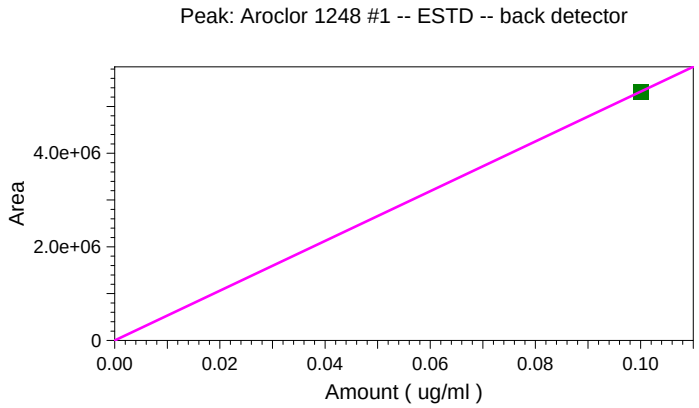
	Level 1	Level 11
Amount	100	0
Area	19667257	
RF	196672.57	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	19667257	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\015.dat	
Rep 1 Sample ID	PCB 1248 CF PP 3044	
Rep 1 Calib. Time	11/12/2010 8:50:04 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1248.met
Print Time: 11/17/2010 1:51:02 PM
User: jjy
Instrument: Semi 7

Aroclor 1248 #1 (back detector)
Average RF: 5.31640e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 5.31640e+007



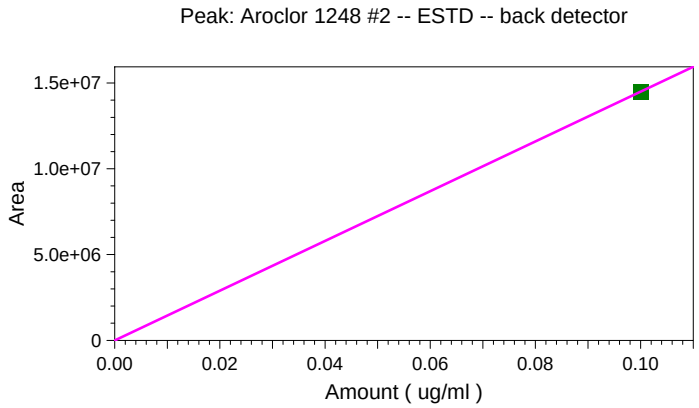
	Level 1	Level 11
Amount	0.1	0
Area	5316395	
RF	53163950	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	5316395	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\015.dat	
Rep 1 Sample ID	PCB 1248 CF PP 3044	
Rep 1 Calib. Time	11/12/2010 8:50:04 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1248.met
Print Time: 11/17/2010 1:51:05 PM
User: jjy
Instrument: Semi 7

Aroclor 1248 #2 (back detector)
Average RF: 1.44953e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.44953e+008



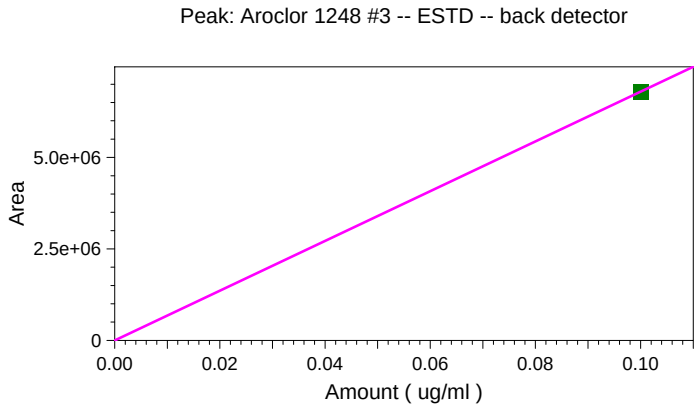
	Level 1	Level 11
Amount	0.1	0
Area	14495289	
RF	144952890	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	14495289	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\015.dat	
Rep 1 Sample ID	PCB 1248 CF PP 3044	
Rep 1 Calib. Time	11/12/2010 8:50:04 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1248.met
Print Time: 11/17/2010 1:51:09 PM
User: jjy
Instrument: Semi 7

Aroclor 1248 #3 (back detector)
Average RF: 6.79637e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 6.79637e+007



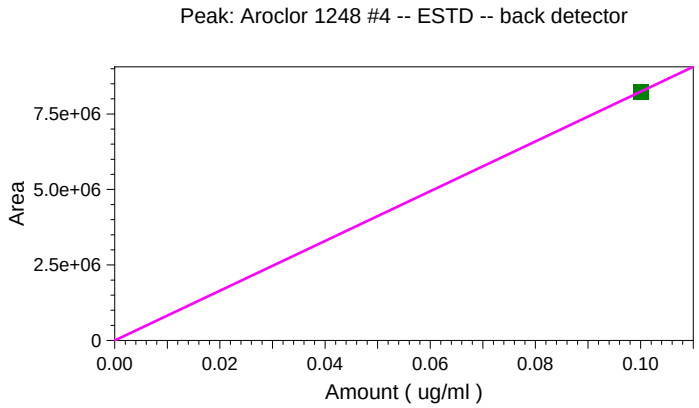
	Level 1	Level 11
Amount	0.1	0
Area	6796372	
RF	67963720	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	6796372	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\015.dat	
Rep 1 Sample ID	PCB 1248 CF PP 3044	
Rep 1 Calib. Time	11/12/2010 8:50:04 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1248.met
Print Time: 11/17/2010 1:51:12 PM
User: jjy
Instrument: Semi 7

Aroclor 1248 #4 (back detector)
Average RF: 8.23934e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 8.23934e+007



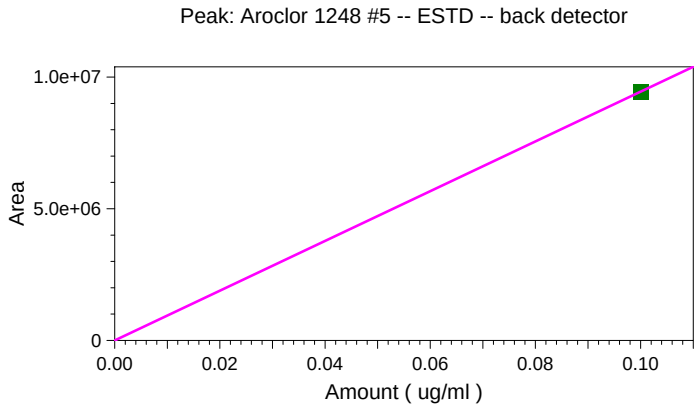
	Level 1	Level 11
Amount	0.1	0
Area	8239344	
RF	82393440	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	8239344	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\015.dat	
Rep 1 Sample ID	PCB 1248 CF PP 3044	
Rep 1 Calib. Time	11/12/2010 8:50:04 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1248.met
Print Time: 11/17/2010 1:51:15 PM
User: jjy
Instrument: Semi 7

Aroclor 1248 #5 (back detector)
Average RF: 9.44564e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 9.44564e+007



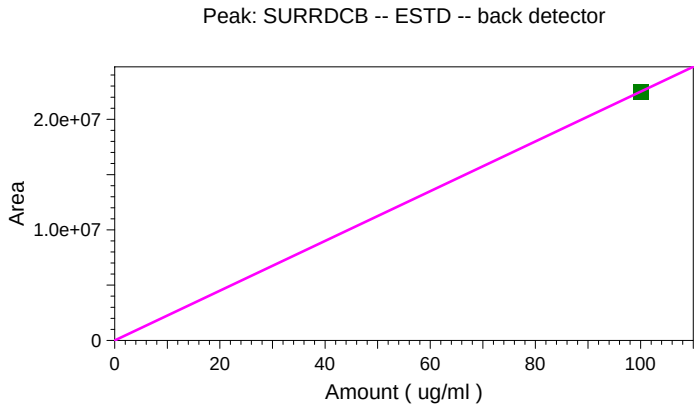
	Level 1
Amount	0.1
Area	9445636
RF	94456360
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	9445636
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\015.dat
Rep 1 Sample ID	PCB 1248 CF PP 3044
Rep 1 Calib. Time	11/12/2010 8:50:04 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1248.met
Print Time: 11/17/2010 1:51:20 PM
User: jjy
Instrument: Semi 7

SURRDCB (back detector)
Average RF: 224998.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 224998.



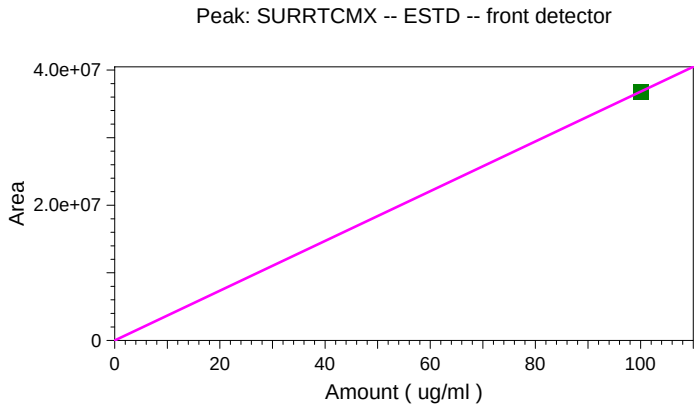
	Level 1
Amount	100
Area	22499817
RF	224998.17
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	22499817
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\015.dat
Rep 1 Sample ID	PCB 1248 CF PP 3044
Rep 1 Calib. Time	11/12/2010 8:50:04 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1254.met
Print Time: 11/17/2010 1:51:49 PM
User: jjy
Instrument: Semi 7

SURRTCMX (front detector)
Average RF: 368029.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 368029.



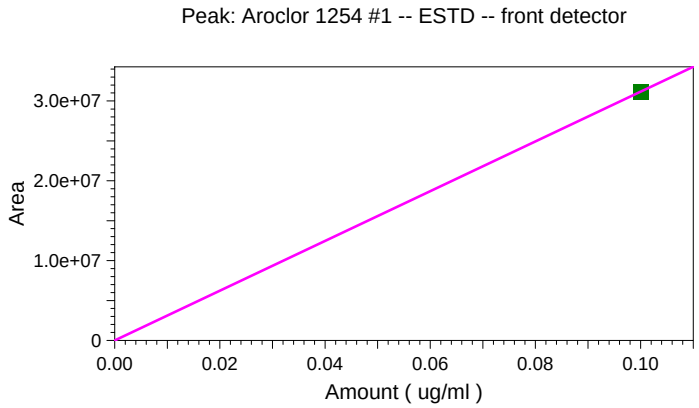
	Level 1	Level 11
Amount	100	0
Area	36802940	
RF	368029.4	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	36802940	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\016.dat	
Rep 1 Sample ID	PCB 1254 CF PP 3045	
Rep 1 Calib. Time	11/12/2010 8:50:18 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1254.met
Print Time: 11/17/2010 1:51:54 PM
User: jjy
Instrument: Semi 7

Aroclor 1254 #1 (front detector)
Average RF: 3.11688e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 3.11688e+008



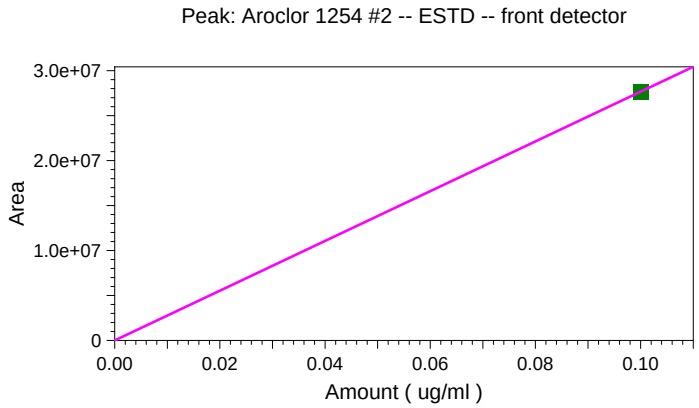
	Level 1	Level 11
Amount	0.1	0
Area	31168777	
RF	311687770	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	31168777	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\016.dat	
Rep 1 Sample ID	PCB 1254 CF PP 3045	
Rep 1 Calib. Time	11/12/2010 8:50:18 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1254.met
Print Time: 11/17/2010 1:51:58 PM
User: jjy
Instrument: Semi 7

Aroclor 1254 #2 (front detector)
Average RF: 2.76693e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 2.76693e+008



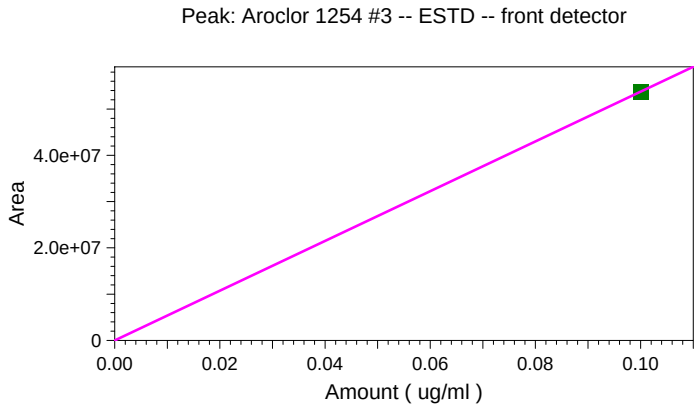
	Level 1	Level 11
Amount	0.1	0
Area	27669320	
RF	276693200	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	27669320	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\016.dat	
Rep 1 Sample ID	PCB 1254 CF PP 3045	
Rep 1 Calib. Time	11/12/2010 8:50:18 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1254.met
Print Time: 11/17/2010 1:52:01 PM
User: jjy
Instrument: Semi 7

Aroclor 1254 #3 (front detector)
Average RF: 5.37604e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 5.37604e+008



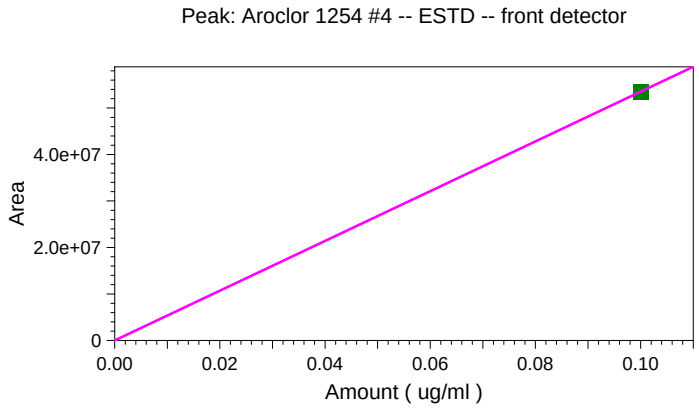
	Level 1	Level 11
Amount	0.1	0
Area	53760384	
RF	537603840	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	53760384	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\016.dat	
Rep 1 Sample ID	PCB 1254 CF PP 3045	
Rep 1 Calib. Time	11/12/2010 8:50:18 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1254.met
Print Time: 11/17/2010 1:52:05 PM
User: jjy
Instrument: Semi 7

Aroclor 1254 #4 (front detector)
Average RF: 5.35175e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 5.35175e+008



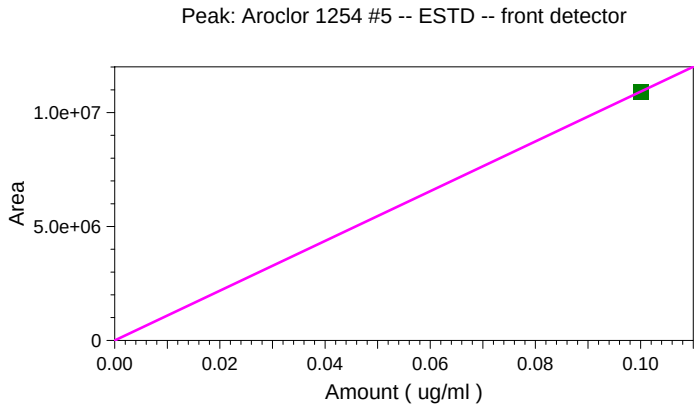
	Level 1	Level 11
Amount	0.1	0
Area	53517485	
RF	535174850	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	53517485	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\016.dat	
Rep 1 Sample ID	PCB 1254 CF PP 3045	
Rep 1 Calib. Time	11/12/2010 8:50:18 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1254.met
Print Time: 11/17/2010 1:52:09 PM
User: jjy
Instrument: Semi 7

Aroclor 1254 #5 (front detector)
Average RF: 1.09188e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.09188e+008



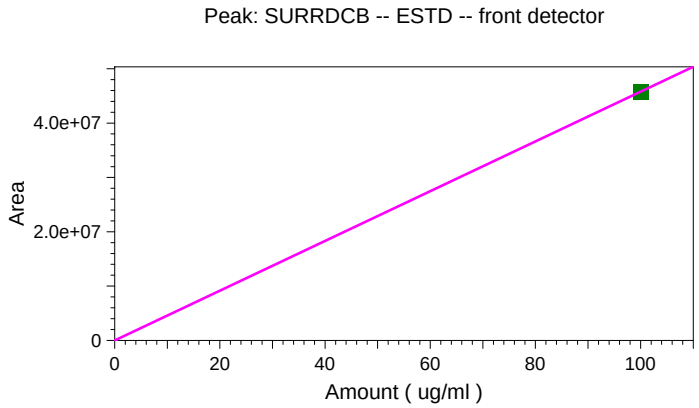
	Level 1
Amount	0.1
Area	10918796
RF	109187960
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	10918796
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\016.dat
Rep 1 Sample ID	PCB 1254 CF PP 3045
Rep 1 Calib. Time	11/12/2010 8:50:18 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1254.met
Print Time: 11/17/2010 1:52:12 PM
User: jjy
Instrument: Semi 7

SURRDCB (front detector)
Average RF: 457880.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 457880.



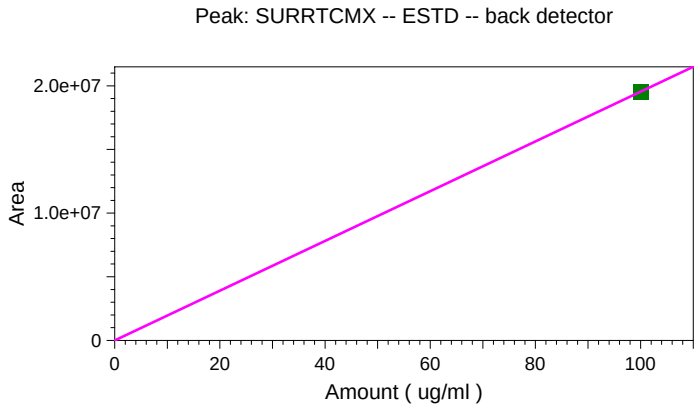
	Level 1
Amount	100
Area	45787981
RF	457879.81
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	45787981
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\016.dat
Rep 1 Sample ID	PCB 1254 CF PP 3045
Rep 1 Calib. Time	11/12/2010 8:50:18 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1254.met
Print Time: 11/17/2010 1:52:22 PM
User: jjy
Instrument: Semi 7

SURRTCMX (back detector)
Average RF: 195390.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 195390.



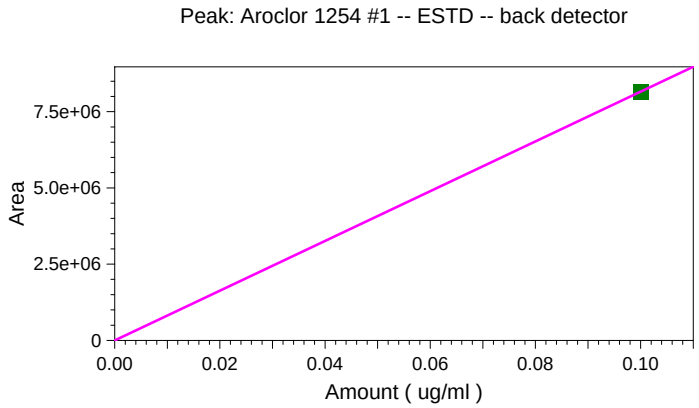
	Level 1	Level 11
Amount	100	0
Area	19538986	
RF	195389.86	
Last Area Residual	-1.42109e-014	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	19538986	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\016.dat	
Rep 1 Sample ID	PCB 1254 CF PP 3045	
Rep 1 Calib. Time	11/12/2010 8:50:18 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1254.met
Print Time: 11/17/2010 1:52:26 PM
User: jjy
Instrument: Semi 7

Aroclor 1254 #1 (back detector)
Average RF: 8.15535e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 8.15535e+007



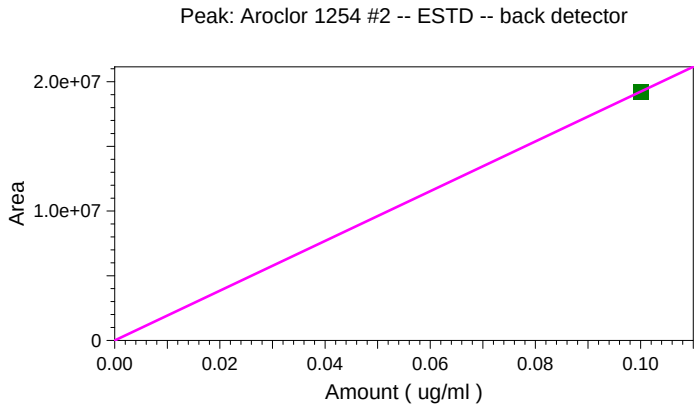
	Level 1	Level 11
Amount	0.1	0
Area	8155349	
RF	81553490	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	8155349	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\016.dat	
Rep 1 Sample ID	PCB 1254 CF PP 3045	
Rep 1 Calib. Time	11/12/2010 8:50:18 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1254.met
Print Time: 11/17/2010 1:52:30 PM
User: jjy
Instrument: Semi 7

Aroclor 1254 #2 (back detector)
Average RF: 1.92314e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.92314e+008



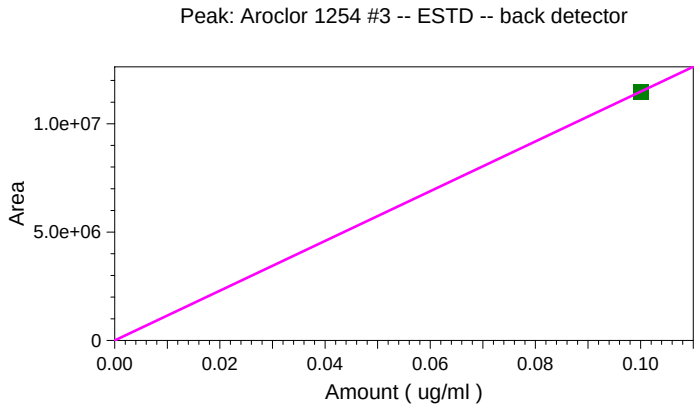
	Level 1	Level 11
Amount	0.1	0
Area	19231434	
RF	192314340	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	19231434	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\016.dat	
Rep 1 Sample ID	PCB 1254 CF PP 3045	
Rep 1 Calib. Time	11/12/2010 8:50:18 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1254.met
Print Time: 11/17/2010 1:52:33 PM
User: jjy
Instrument: Semi 7

Aroclor 1254 #3 (back detector)
Average RF: 1.14814e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.14814e+008



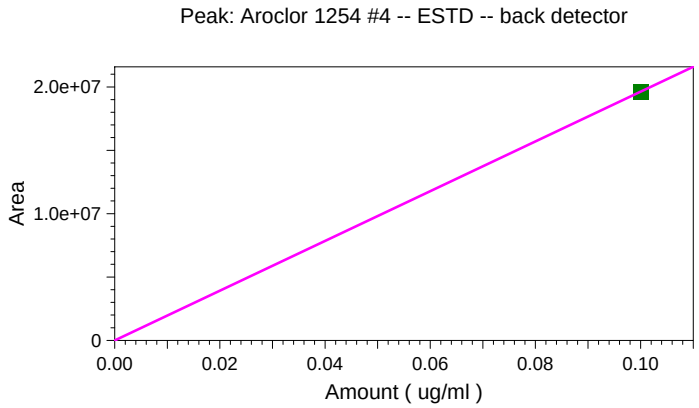
	Level 1	Level 11
Amount	0.1	0
Area	11481433	
RF	114814330	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	11481433	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\016.dat	
Rep 1 Sample ID	PCB 1254 CF PP 3045	
Rep 1 Calib. Time	11/12/2010 8:50:18 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1254.met
Print Time: 11/17/2010 1:52:36 PM
User: jjy
Instrument: Semi 7

Aroclor 1254 #4 (back detector)
Average RF: 1.96243e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.96243e+008



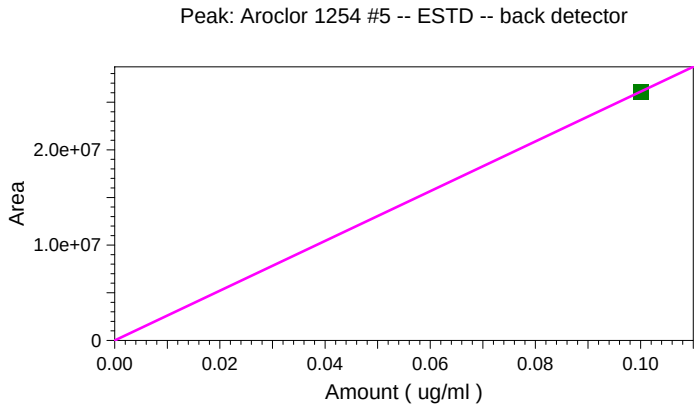
	Level 1	Level 11
Amount	0.1	0
Area	19624344	
RF	196243440	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	19624344	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\016.dat	
Rep 1 Sample ID	PCB 1254 CF PP 3045	
Rep 1 Calib. Time	11/12/2010 8:50:18 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1254.met
Print Time: 11/17/2010 1:52:40 PM
User: jjy
Instrument: Semi 7

Aroclor 1254 #5 (back detector)
Average RF: 2.61056e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 2.61056e+008



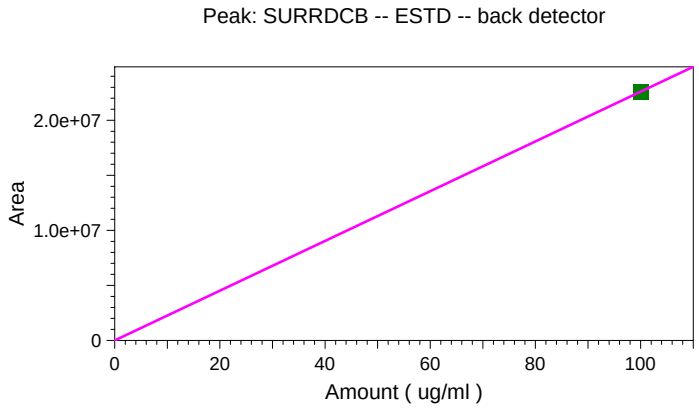
	Level 1
Amount	0.1
Area	26105580
RF	261055800
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	26105580
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\016.dat
Rep 1 Sample ID	PCB 1254 CF PP 3045
Rep 1 Calib. Time	11/12/2010 8:50:18 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1254.met
Print Time: 11/17/2010 1:52:44 PM
User: jjy
Instrument: Semi 7

SURRDCB (back detector)
Average RF: 225994.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 225994.



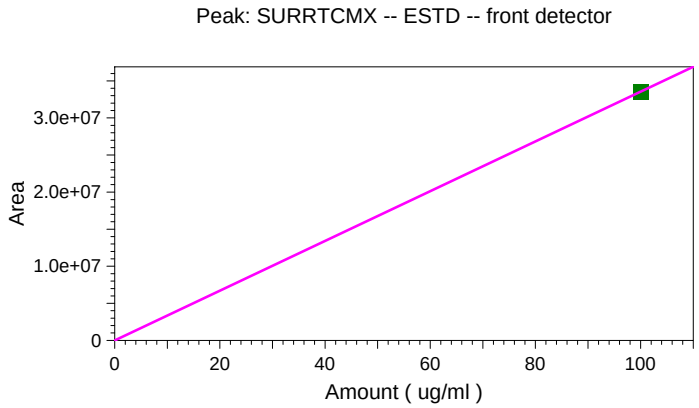
	Level 1
Amount	100
Area	22599379
RF	225993.79
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	22599379
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\016.dat
Rep 1 Sample ID	PCB 1254 CF PP 3045
Rep 1 Calib. Time	11/12/2010 8:50:18 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1262.met
Print Time: 11/17/2010 1:53:10 PM
User: jjy
Instrument: Semi 7

SURRTCMX (front detector)
Average RF: 335455.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 335455.



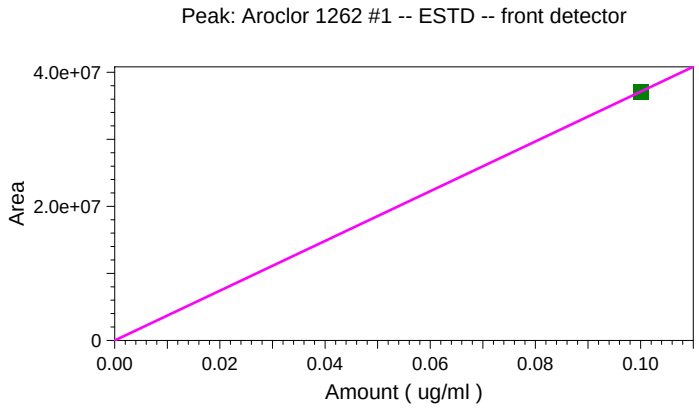
	Level 1	Level 11
Amount	100	0
Area	33545486	
RF	335454.86	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	33545486	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\017.dat	
Rep 1 Sample ID	PCB 1262 CF PP 3046	
Rep 1 Calib. Time	11/12/2010 8:50:33 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1262.met
Print Time: 11/17/2010 1:53:16 PM
User: jjy
Instrument: Semi 7

Aroclor 1262 #1 (front detector)
Average RF: 3.71048e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 3.71048e+008



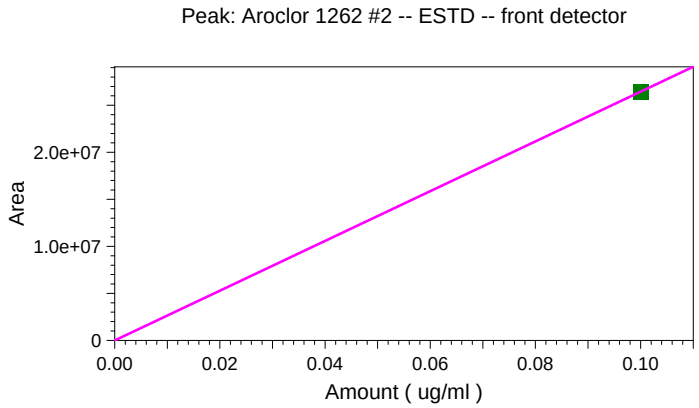
	Level 1	Level 11
Amount	0.1	0
Area	37104811	
RF	371048110	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	37104811	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\017.dat	
Rep 1 Sample ID	PCB 1262 CF PP 3046	
Rep 1 Calib. Time	11/12/2010 8:50:33 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1262.met
Print Time: 11/17/2010 1:53:20 PM
User: jjy
Instrument: Semi 7

Aroclor 1262 #2 (front detector)
Average RF: 2.64470e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 2.64470e+008



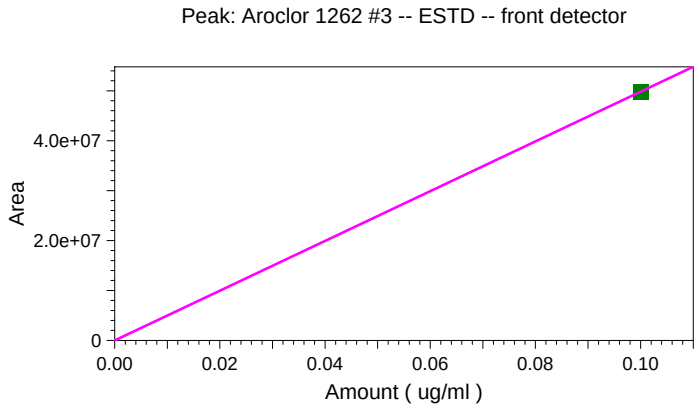
	Level 1	Level 11
Amount	0.1	0
Area	26447008	
RF	264470080	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	26447008	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\017.dat	
Rep 1 Sample ID	PCB 1262 CF PP 3046	
Rep 1 Calib. Time	11/12/2010 8:50:33 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1262.met
Print Time: 11/17/2010 1:53:25 PM
User: jjy
Instrument: Semi 7

Aroclor 1262 #3 (front detector)
Average RF: 4.98272e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 4.98272e+008



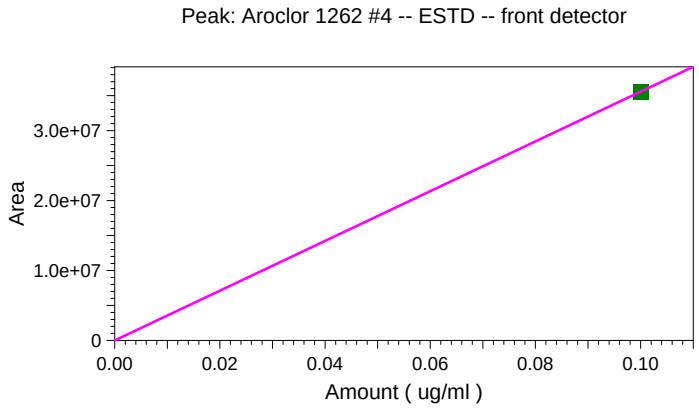
	Level 1	Level 11
Amount	0.1	0
Area	49827180	
RF	498271800	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	49827180	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\017.dat	
Rep 1 Sample ID	PCB 1262 CF PP 3046	
Rep 1 Calib. Time	11/12/2010 8:50:33 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1262.met
Print Time: 11/17/2010 1:53:32 PM
User: jjy
Instrument: Semi 7

Aroclor 1262 #4 (front detector)
Average RF: 3.55649e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 3.55649e+008



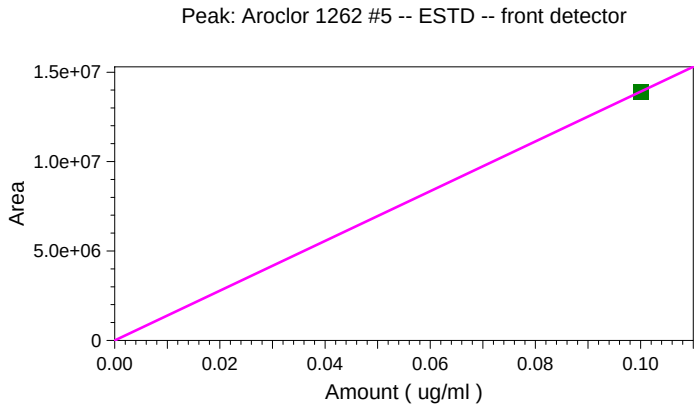
	Level 1	Level 11
Amount	0.1	0
Area	35564856	
RF	355648560	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	35564856	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\017.dat	
Rep 1 Sample ID	PCB 1262 CF PP 3046	
Rep 1 Calib. Time	11/12/2010 8:50:33 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1262.met
Print Time: 11/17/2010 1:53:35 PM
User: jjy
Instrument: Semi 7

Aroclor 1262 #5 (front detector)
Average RF: 1.39096e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.39096e+008



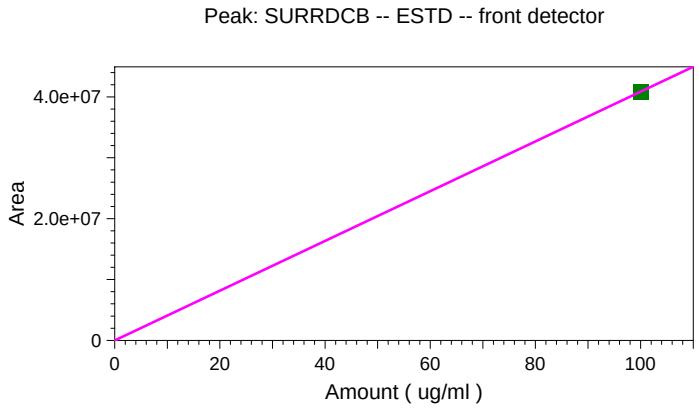
	Level 1
Amount	0.1
Area	13909618
RF	139096180
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	13909618
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\017.dat
Rep 1 Sample ID	PCB 1262 CF PP 3046
Rep 1 Calib. Time	11/12/2010 8:50:33 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1262.met
Print Time: 11/17/2010 1:53:40 PM
User: jjy
Instrument: Semi 7

SURRDCB (front detector)
Average RF: 408617.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 408617.



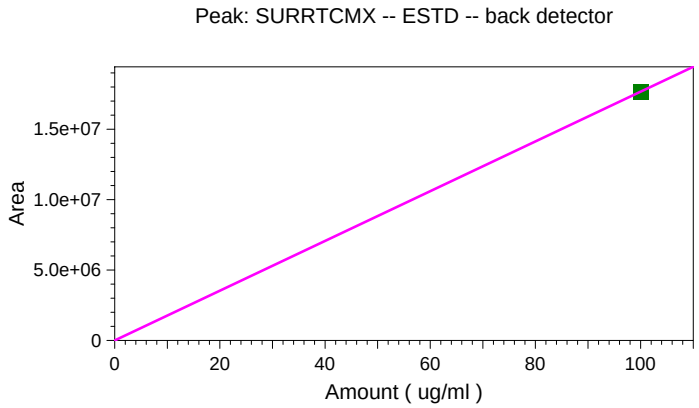
	Level 1
Amount	100
Area	40861662
RF	408616.62
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	40861662
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\017.dat
Rep 1 Sample ID	PCB 1262 CF PP 3046
Rep 1 Calib. Time	11/12/2010 8:50:33 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1262.met
Print Time: 11/17/2010 1:53:49 PM
User: jjy
Instrument: Semi 7

SURRTCMX (back detector)
Average RF: 176655.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 176655.



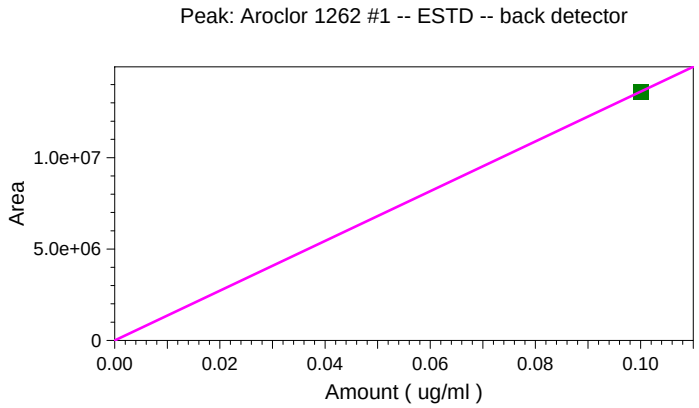
	Level 1	Level 11
Amount	100	0
Area	17665491	
RF	176654.91	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	17665491	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\017.dat	
Rep 1 Sample ID	PCB 1262 CF PP 3046	
Rep 1 Calib. Time	11/12/2010 8:50:33 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1262.met
Print Time: 11/17/2010 1:53:52 PM
User: jjy
Instrument: Semi 7

Aroclor 1262 #1 (back detector)
Average RF: 1.36130e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.36130e+008



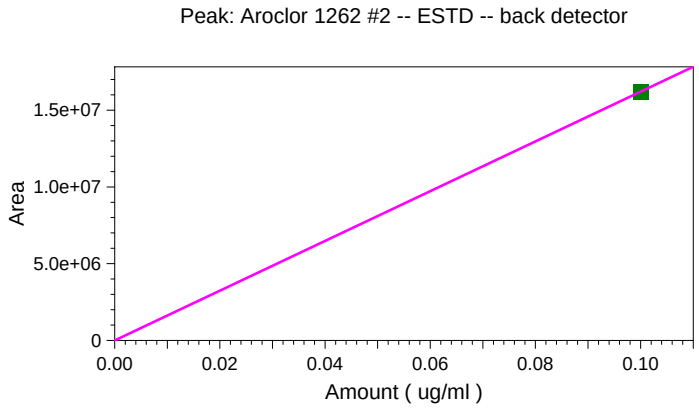
	Level 1	Level 11
Amount	0.1	0
Area	13613017	
RF	136130170	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	13613017	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\017.dat	
Rep 1 Sample ID	PCB 1262 CF PP 3046	
Rep 1 Calib. Time	11/12/2010 8:50:33 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1262.met
Print Time: 11/17/2010 1:53:55 PM
User: jjy
Instrument: Semi 7

Aroclor 1262 #2 (back detector)
Average RF: 1.62106e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.62106e+008



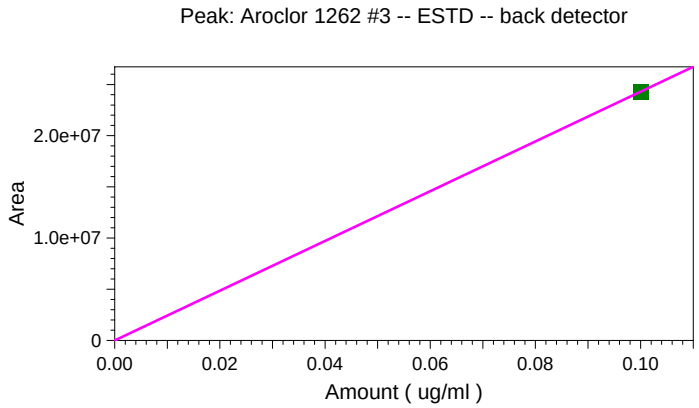
	Level 1	Level 11
Amount	0.1	0
Area	16210590	
RF	162105900	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	16210590	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\017.dat	
Rep 1 Sample ID	PCB 1262 CF PP 3046	
Rep 1 Calib. Time	11/12/2010 8:50:33 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1262.met
Print Time: 11/17/2010 1:53:59 PM
User: jjy
Instrument: Semi 7

Aroclor 1262 #3 (back detector)
Average RF: 2.42992e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 2.42992e+008



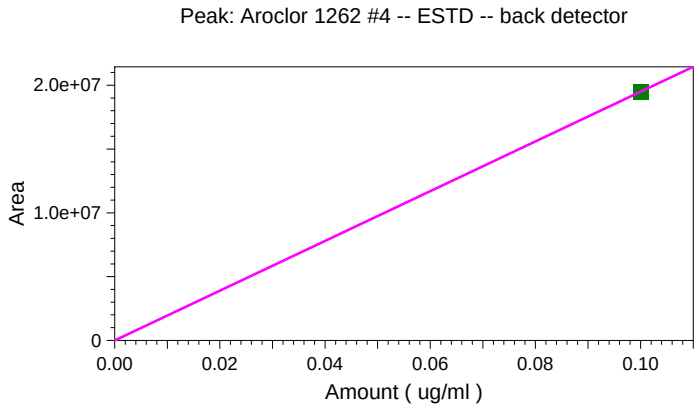
	Level 1	Level 11
Amount	0.1	0
Area	24299187	
RF	242991870	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	24299187	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\017.dat	
Rep 1 Sample ID	PCB 1262 CF PP 3046	
Rep 1 Calib. Time	11/12/2010 8:50:33 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1262.met
Print Time: 11/17/2010 1:54:02 PM
User: jjy
Instrument: Semi 7

Aroclor 1262 #4 (back detector)
Average RF: 1.94983e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.94983e+008



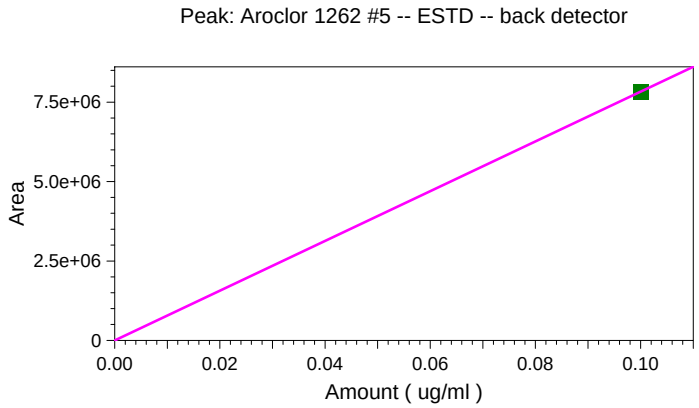
	Level 1	Level 11
Amount	0.1	0
Area	19498286	
RF	194982860	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	19498286	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\017.dat	
Rep 1 Sample ID	PCB 1262 CF PP 3046	
Rep 1 Calib. Time	11/12/2010 8:50:33 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1262.met
Print Time: 11/17/2010 1:54:06 PM
User: jjy
Instrument: Semi 7

Aroclor 1262 #5 (back detector)
Average RF: 7.82957e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 7.82957e+007



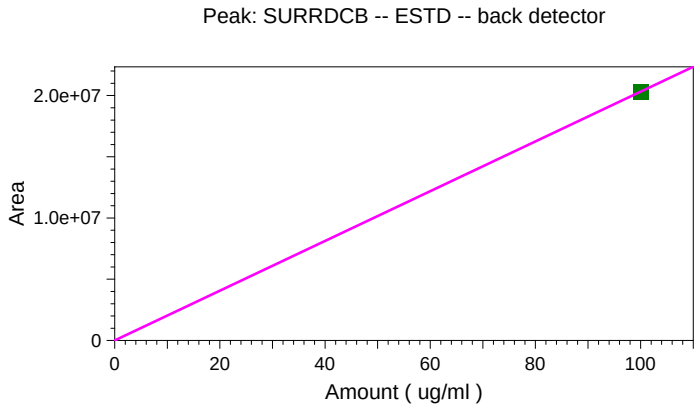
	Level 1
Amount	0.1
Area	7829570
RF	78295700
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	7829570
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\017.dat
Rep 1 Sample ID	PCB 1262 CF PP 3046
Rep 1 Calib. Time	11/12/2010 8:50:33 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1262.met
Print Time: 11/17/2010 1:54:09 PM
User: jjy
Instrument: Semi 7

SURRDCB (back detector)
Average RF: 203148.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 203148.



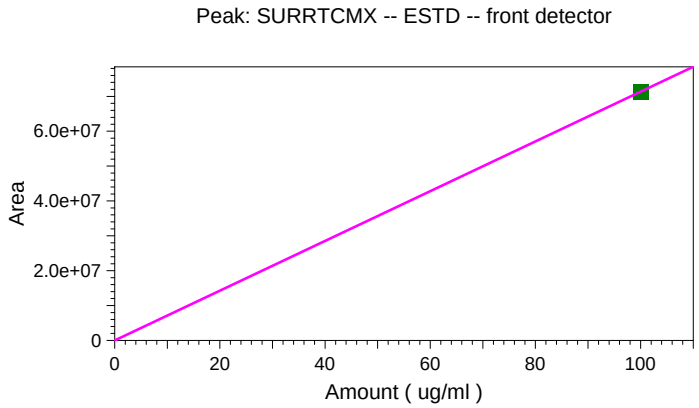
	Level 1
Amount	100
Area	20314759
RF	203147.59
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	20314759
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\017.dat
Rep 1 Sample ID	PCB 1262 CF PP 3046
Rep 1 Calib. Time	11/12/2010 8:50:33 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1268.met
Print Time: 11/17/2010 1:54:56 PM
User: jjy
Instrument: Semi 7

SURRTCMX (front detector)
Average RF: 713525.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 713525.



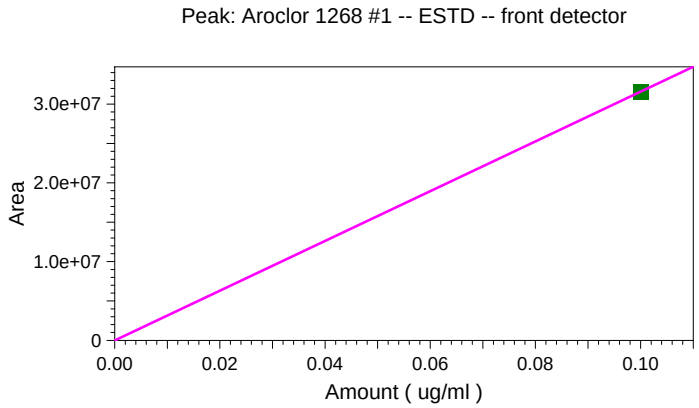
	Level 1	Level 11
Amount	100	0
Area	71352523	
RF	713525.23	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	71352523	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\018.dat	
Rep 1 Sample ID	PCB 1268 CF PP 3072	
Rep 1 Calib. Time	11/12/2010 8:50:47 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1268.met
Print Time: 11/17/2010 1:55:02 PM
User: jjy
Instrument: Semi 7

Aroclor 1268 #1 (front detector)
Average RF: 3.15782e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 3.15782e+008



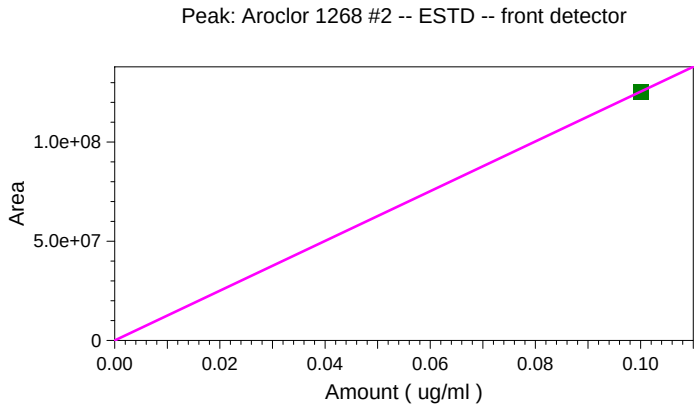
	Level 1	Level 11
Amount	0.1	0
Area	31578151	
RF	315781510	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	31578151	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\018.dat	
Rep 1 Sample ID	PCB 1268 CF PP 3072	
Rep 1 Calib. Time	11/12/2010 8:50:47 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1268.met
Print Time: 11/17/2010 1:55:09 PM
User: jjy
Instrument: Semi 7

Aroclor 1268 #2 (front detector)
Average RF: 1.25427e+009
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.25427e+009



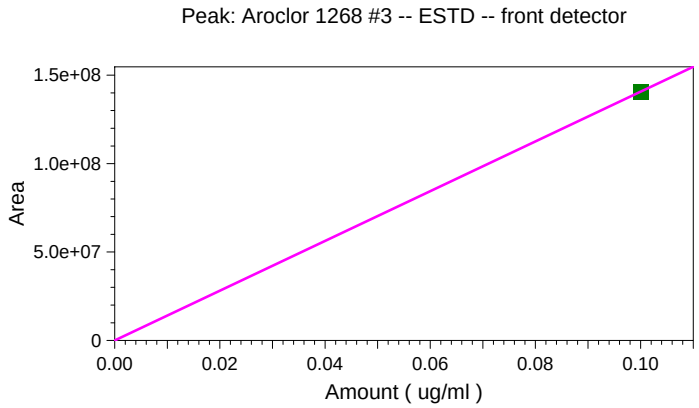
	Level 1	Level 11
Amount	0.1	0
Area	125426730	
RF	1254267300	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	125426730	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\018.dat	
Rep 1 Sample ID	PCB 1268 CF PP 3072	
Rep 1 Calib. Time	11/12/2010 8:50:47 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1268.met
Print Time: 11/17/2010 1:55:14 PM
User: jjy
Instrument: Semi 7

Aroclor 1268 #3 (front detector)
Average RF: 1.40711e+009
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.40711e+009



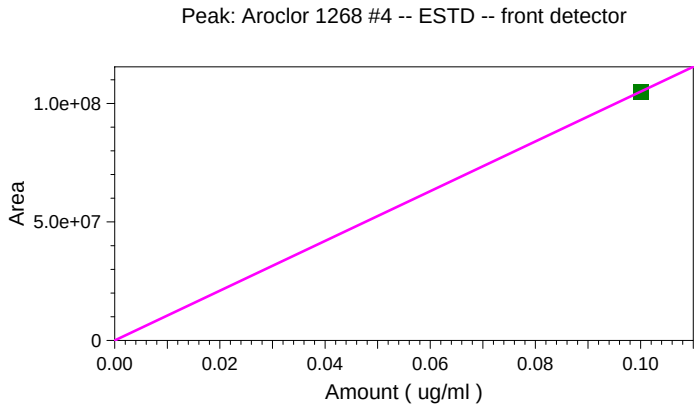
	Level 1	Level 11
Amount	0.1	0
Area	140711401	
RF	1407114010	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	140711401	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\018.dat	
Rep 1 Sample ID	PCB 1268 CF PP 3072	
Rep 1 Calib. Time	11/12/2010 8:50:47 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1268.met
Print Time: 11/17/2010 1:55:18 PM
User: jjy
Instrument: Semi 7

Aroclor 1268 #4 (front detector)
Average RF: 1.04995e+009
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.04995e+009



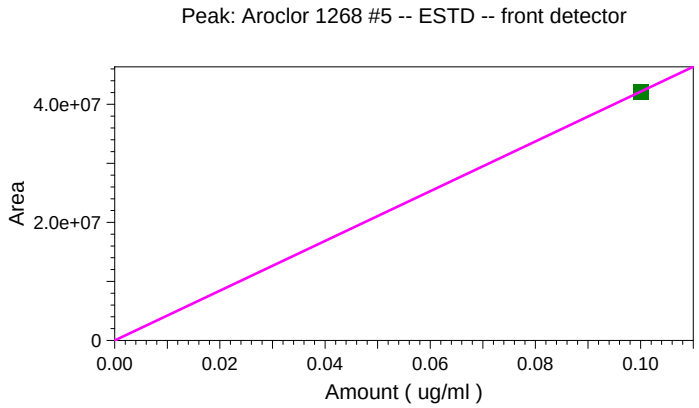
	Level 1	Level 11
Amount	0.1	0
Area	104994511	
RF	1049945110	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	104994511	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\018.dat	
Rep 1 Sample ID	PCB 1268 CF PP 3072	
Rep 1 Calib. Time	11/12/2010 8:50:47 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1268.met
Print Time: 11/17/2010 1:55:22 PM
User: jjy
Instrument: Semi 7

Aroclor 1268 #5 (front detector)
Average RF: 4.21465e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 4.21465e+008



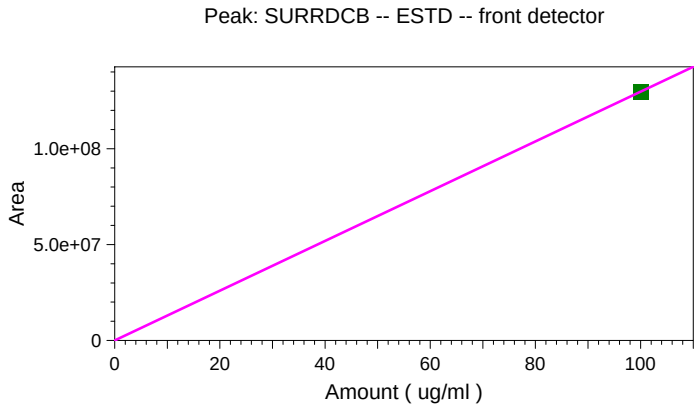
	Level 1
Amount	0.1
Area	42146476
RF	421464760
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	42146476
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\018.dat
Rep 1 Sample ID	PCB 1268 CF PP 3072
Rep 1 Calib. Time	11/12/2010 8:50:47 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1268.met
Print Time: 11/17/2010 1:55:26 PM
User: jjy
Instrument: Semi 7

SURRDCB (front detector)
Average RF: 1.29738e+006
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.29738e+006



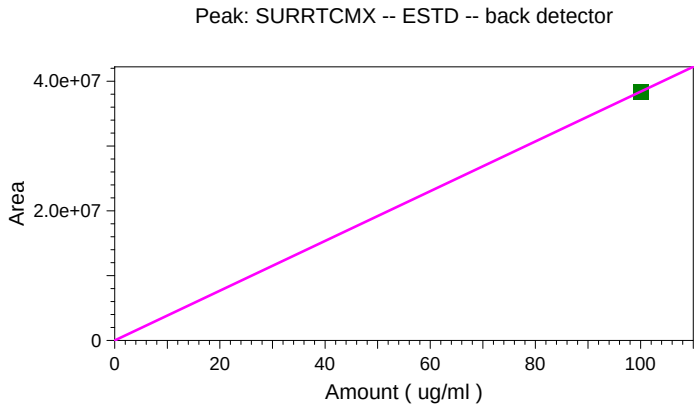
	Level 1
Amount	100
Area	129737545
RF	1297375.45
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	129737545
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\018.dat
Rep 1 Sample ID	PCB 1268 CF PP 3072
Rep 1 Calib. Time	11/12/2010 8:50:47 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1268.met
Print Time: 11/17/2010 1:55:40 PM
User: jjy
Instrument: Semi 7

SURRTCMX (back detector)
Average RF: 383970.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 383970.



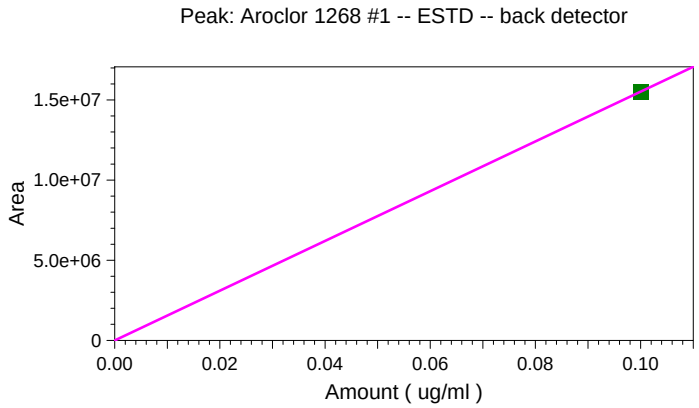
	Level 1	Level 11
Amount	100	0
Area	38397011	
RF	383970.11	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	38397011	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\018.dat	
Rep 1 Sample ID	PCB 1268 CF PP 3072	
Rep 1 Calib. Time	11/12/2010 8:50:47 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1268.met
Print Time: 11/17/2010 1:55:45 PM
User: jjy
Instrument: Semi 7

Aroclor 1268 #1 (back detector)
Average RF: 1.55168e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.55168e+008



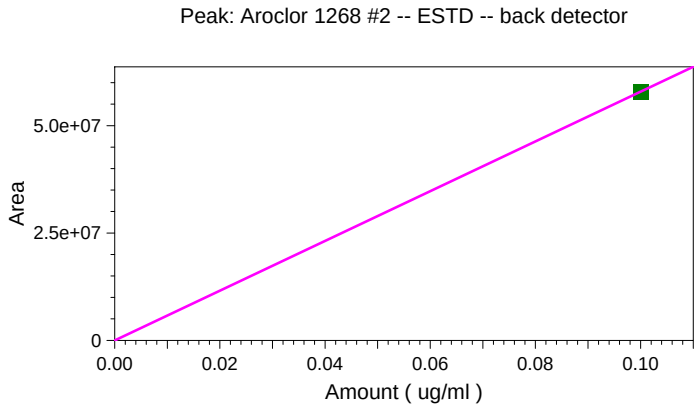
	Level 1	Level 11
Amount	0.1	0
Area	15516764	
RF	155167640	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	15516764	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\018.dat	
Rep 1 Sample ID	PCB 1268 CF PP 3072	
Rep 1 Calib. Time	11/12/2010 8:50:47 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1268.met
Print Time: 11/17/2010 1:55:48 PM
User: jjy
Instrument: Semi 7

Aroclor 1268 #2 (back detector)
Average RF: 5.79013e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 5.79013e+008



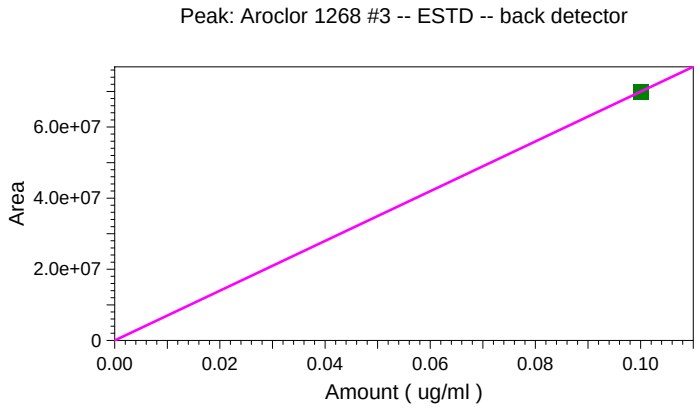
	Level 1	Level 11
Amount	0.1	0
Area	57901303	
RF	579013030	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	57901303	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\018.dat	
Rep 1 Sample ID	PCB 1268 CF PP 3072	
Rep 1 Calib. Time	11/12/2010 8:50:47 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1268.met
Print Time: 11/17/2010 1:55:51 PM
User: jjy
Instrument: Semi 7

Aroclor 1268 #3 (back detector)
Average RF: 6.99343e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 6.99343e+008



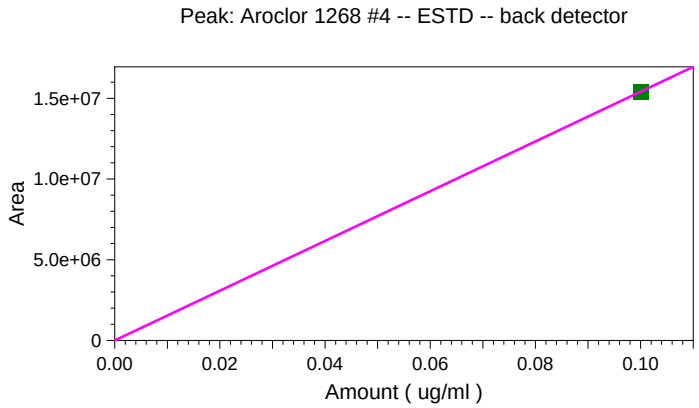
	Level 1	Level 11
Amount	0.1	0
Area	69934319	
RF	699343190	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	69934319	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\018.dat	
Rep 1 Sample ID	PCB 1268 CF PP 3072	
Rep 1 Calib. Time	11/12/2010 8:50:47 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1268.met
Print Time: 11/17/2010 1:55:55 PM
User: jjy
Instrument: Semi 7

Aroclor 1268 #4 (back detector)
Average RF: 1.54125e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.54125e+008



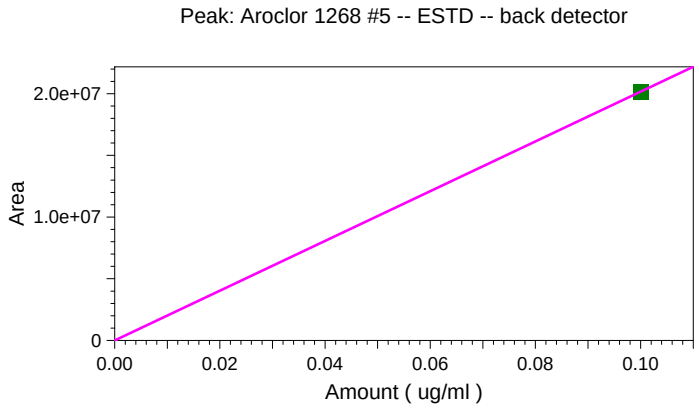
	Level 1	Level 11
Amount	0.1	0
Area	15412498	
RF	154124980	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	15412498	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\018.dat	
Rep 1 Sample ID	PCB 1268 CF PP 3072	
Rep 1 Calib. Time	11/12/2010 8:50:47 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1268.met
Print Time: 11/17/2010 1:56:00 PM
User: jjy
Instrument: Semi 7

Aroclor 1268 #5 (back detector)
Average RF: 2.01624e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 2.01624e+008



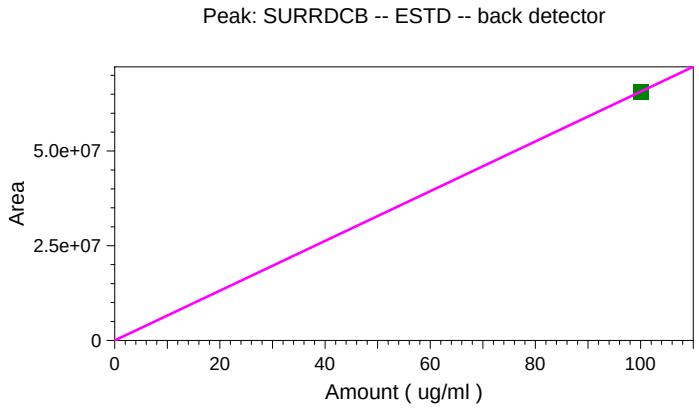
	Level 1
Amount	0.1
Area	20162355
RF	201623550
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	20162355
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\018.dat
Rep 1 Sample ID	PCB 1268 CF PP 3072
Rep 1 Calib. Time	11/12/2010 8:50:47 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1268.met
Print Time: 11/17/2010 1:56:04 PM
User: jjy
Instrument: Semi 7

SURRDCB (back detector)
Average RF: 656832.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 656832.



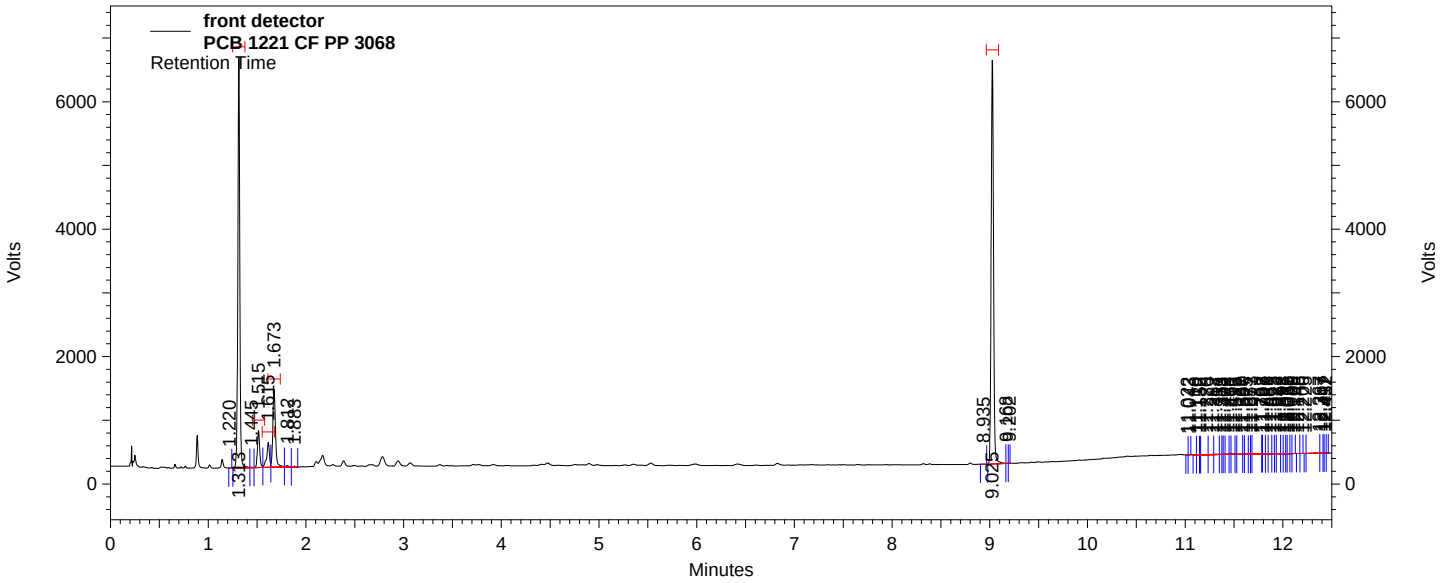
	Level 1
Amount	100
Area	65683213
RF	656832.13
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	65683213
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\018.dat
Rep 1 Sample ID	PCB 1268 CF PP 3072
Rep 1 Calib. Time	11/12/2010 8:50:47 AM

PCB Analysis Report (1221) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\012.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1221.met
User: jjy
Sample ID: PCB 1221 CF PP 3068
Acquired: 11/11/2010 7:19:08 PM
Printed: 11/15/2010 1:51:03 PM

JJY
11/15/10

Data Summary: {Data Description}



front detector Results

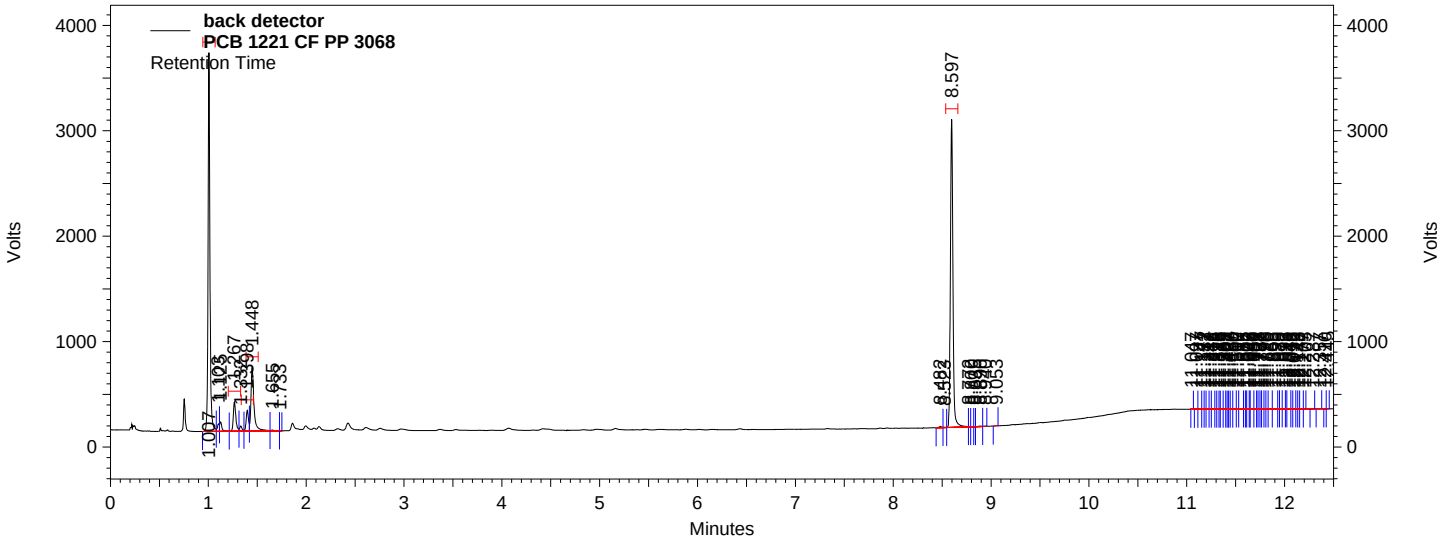
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.313	68646412	100.000 CAL
Aroclor 1221 #1	1.515	7292227	0.167 CAL
Aroclor 1221 #2	1.615	5998423	0.167 CAL
Aroclor 1221 #3	1.673	17583296	0.167 CAL
SURRDCB	9.025	82801517	100.000 CAL
Aroclor 1221		30873946	0.501 CAL

PCB Analysis Report (1221) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\012.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1221.met
User: jjy
Sample ID: PCB 1221 CF PP 3068
Acquired: 11/11/2010 7:19:08 PM
Printed: 11/15/2010 1:51:03 PM

JJY
11/15/10

Data Summary: {Data Description}



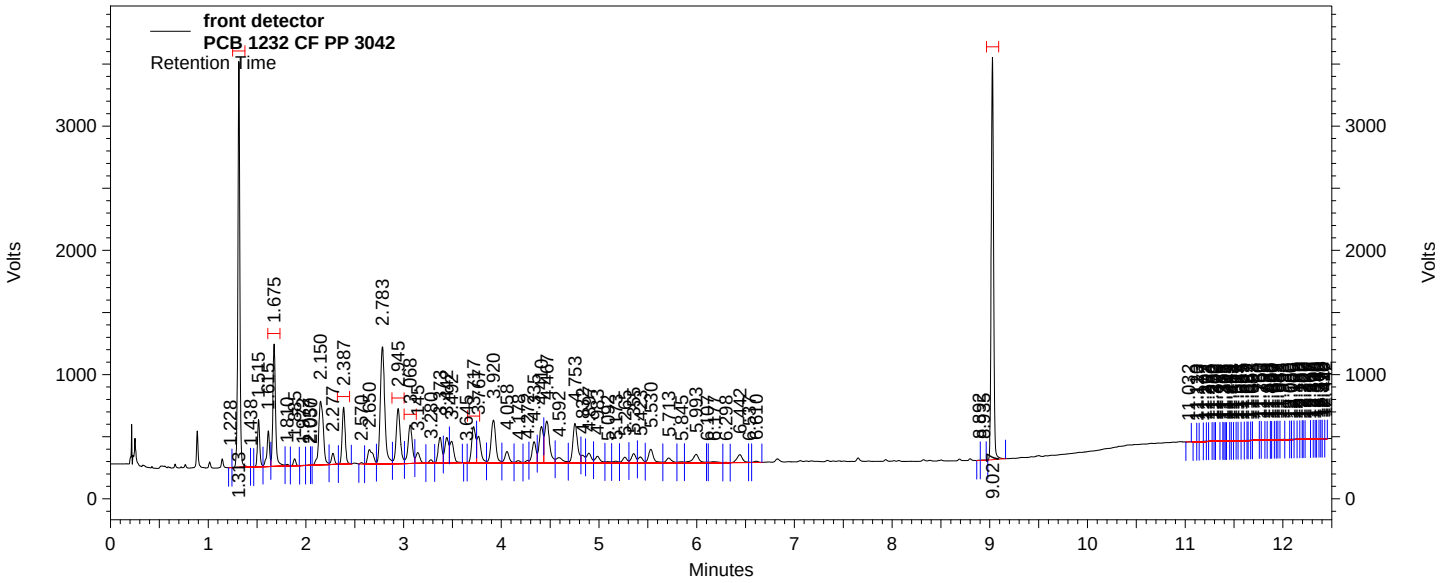
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.007	36158697	100.000 CAL
Aroclor 1221 #1	1.267	3871112	0.167 CAL
Aroclor 1221 #2	1.398	2545612	0.167 CAL
Aroclor 1221 #3	1.448	10008734	0.167 CAL
SURRDCB	8.597	40801469	100.000 CAL
Aroclor 1221		16425458	0.501 CAL

PCB Analysis Report (1232) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\013.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1232.met
User: jjy
Sample ID: PCB 1232 CF PP 3042 JJY
Acquired: 11/11/2010 7:34:49 PM 11/15/10
Printed: 11/15/2010 1:51:12 PM

Data Summary: {Data Description}



front detector Results

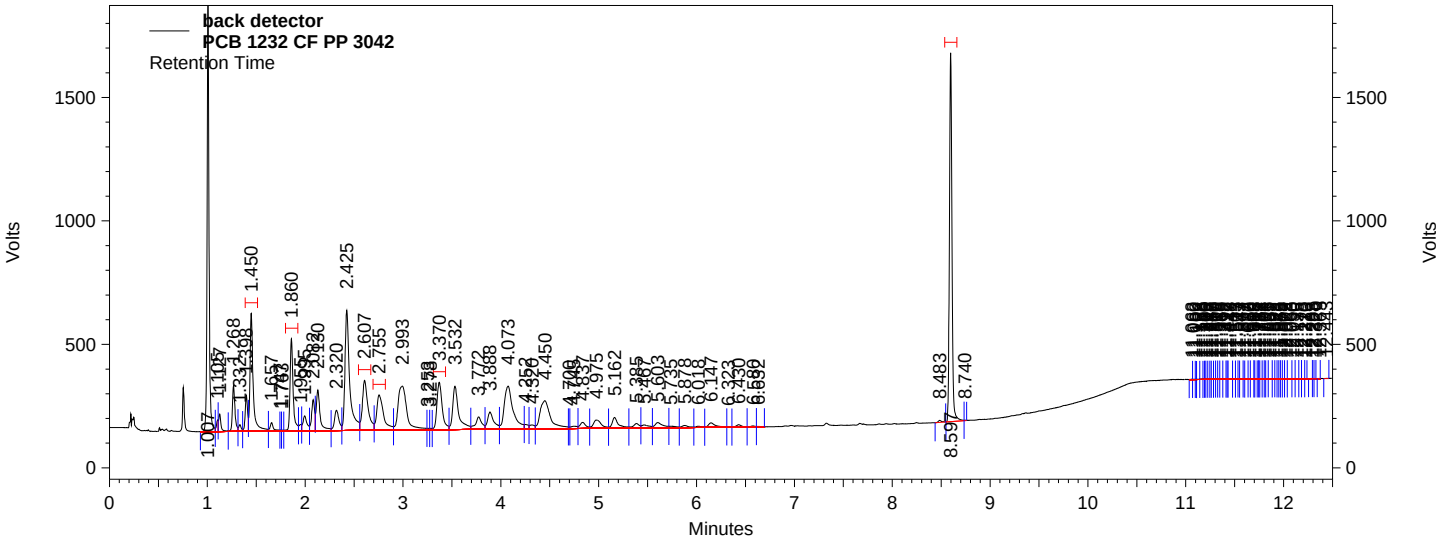
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.313	35544398	100.000 CAL
Aroclor 1232 #1	1.675	14264739	0.100 CAL
Aroclor 1232 #2	2.387	7665796	0.100 CAL
Aroclor 1232 #3	2.945	10070000	0.100 CAL
Aroclor 1232 #4	3.068	7036843	0.100 CAL
Aroclor 1232 #5	3.717	6308673	0.100 CAL
SURRDCB	9.027	42263613	100.000 CAL
Aroclor 1232		45346051	0.500 CAL

PCB Analysis Report (1232) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\013.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1232.met
User: jjy
Sample ID: PCB 1232 CF PP 3042
Acquired: 11/11/2010 7:34:49 PM
Printed: 11/15/2010 1:51:12 PM

JJY
11/15/10

Data Summary: {Data Description}



back detector Results

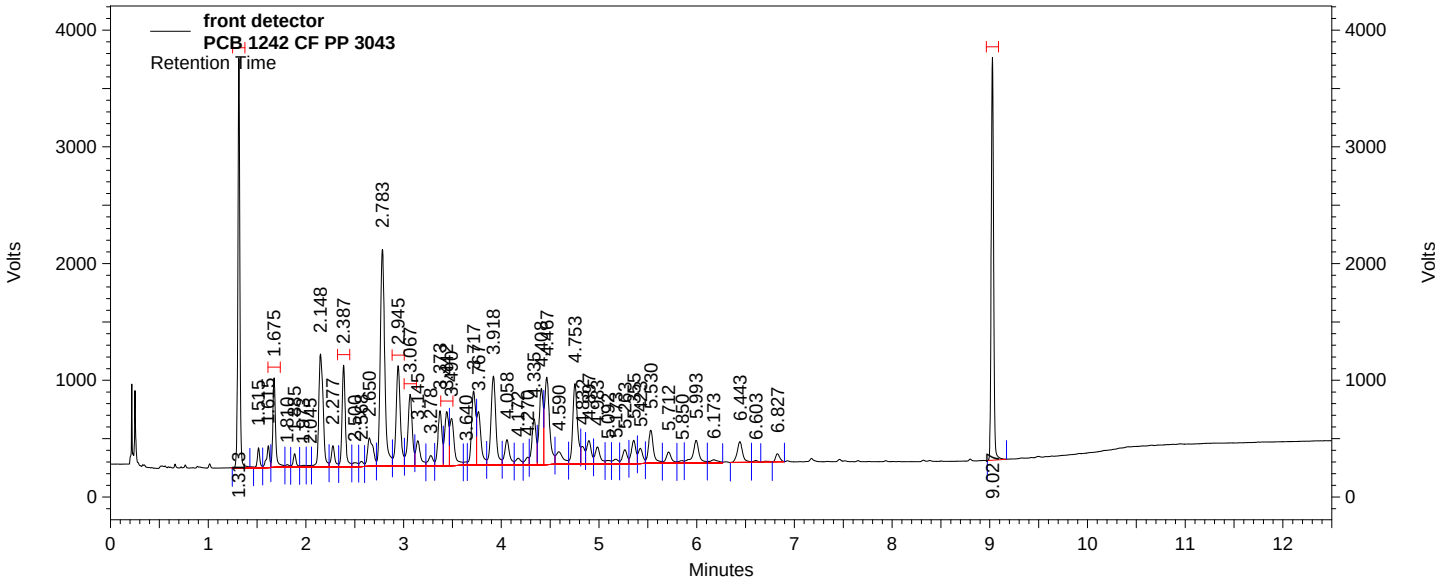
Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.007	18388009	100.000 CAL
Aroclor 1232 #1	1.450	8242035	0.100 CAL
Aroclor 1232 #2	1.860	6293900	0.100 CAL
Aroclor 1232 #3	2.607	6214305	0.100 CAL
Aroclor 1232 #4	2.755	5274465	0.100 CAL
Aroclor 1232 #5	3.370	5487232	0.100 CAL
SURRDCB	8.597	20842377	100.000 CAL
Aroclor 1232		31511937	0.500 CAL

PCB Analysis Report (1242) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\014.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1242.met
User: jjy
Sample ID: PCB 1242 CF PP 3043
Acquired: 11/11/2010 7:50:34 PM
Printed: 11/15/2010 1:51:21 PM

JJY
11/15/10

Data Summary: {Data Description}



front detector Results

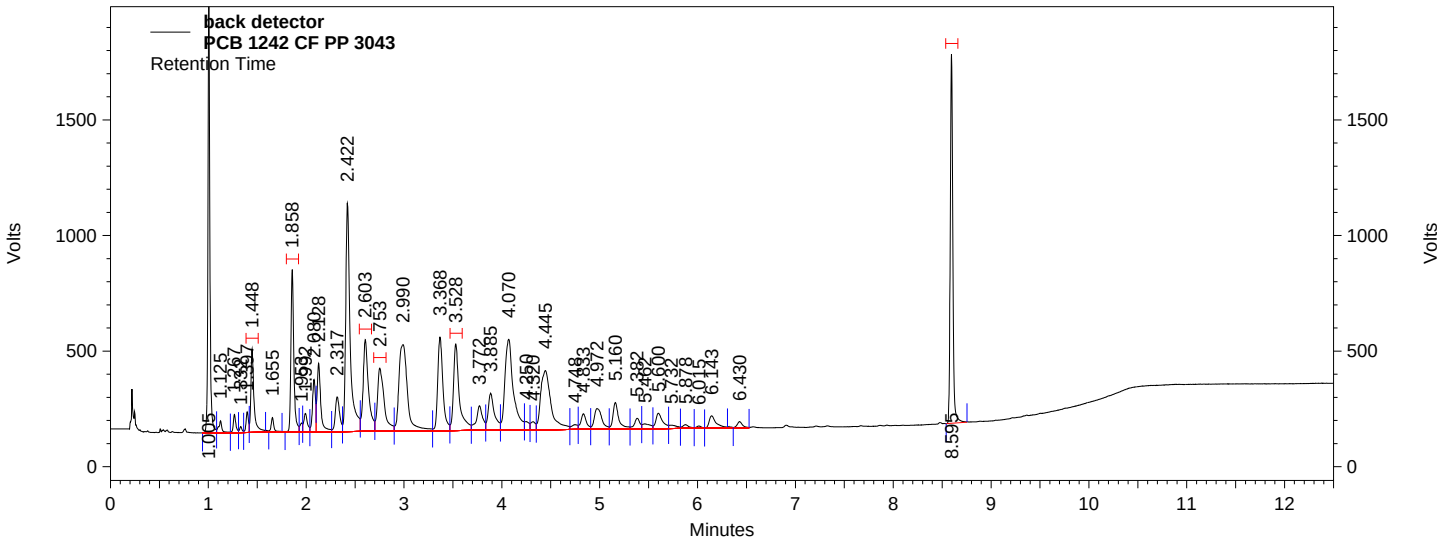
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.313	38173877	100.000 CAL
Aroclor 1242 #1	1.675	11435620	0.100 CAL
Aroclor 1242 #2	2.387	15730793	0.100 CAL
Aroclor 1242 #3	2.945	20340031	0.100 CAL
Aroclor 1242 #4	3.067	14676452	0.100 CAL
Aroclor 1242 #5	3.442	10068554	0.100 CAL
SURRDCB	9.027	45607215	100.000 CAL
Aroclor 1242		72251450	0.500 CAL

PCB Analysis Report (1242) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\014.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1242.met
User: jjy
Sample ID: PCB 1242 CF PP 3043
Acquired: 11/11/2010 7:50:34 PM
Printed: 11/15/2010 1:51:21 PM

JJY
11/15/10

Data Summary: {Data Description}



back detector Results

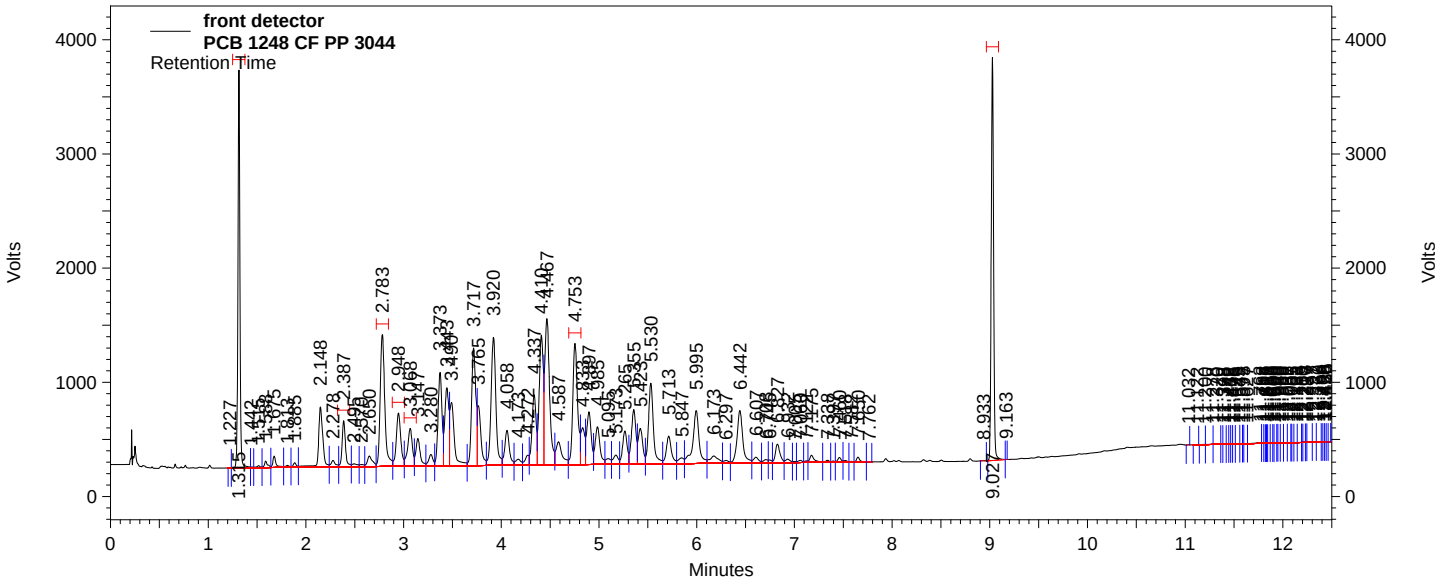
Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.005	19764225	100.000 CAL
Aroclor 1242 #1	1.448	6147131	0.100 CAL
Aroclor 1242 #2	1.858	11233728	0.100 CAL
Aroclor 1242 #3	2.603	11643103	0.100 CAL
Aroclor 1242 #4	2.753	9895830	0.100 CAL
Aroclor 1242 #5	3.528	11923842	0.100 CAL
SURRDCB	8.595	22487451	100.000 CAL
Aroclor 1242		50843634	0.500 CAL

PCB Analysis Report (1248) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\015.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1248.met
User: jjy
Sample ID: PCB 1248 CF PP 3044
Acquired: 11/11/2010 8:06:17 PM
Printed: 11/15/2010 1:51:30 PM

JJY
11/15/10

Data Summary: {Data Description}



front detector Results

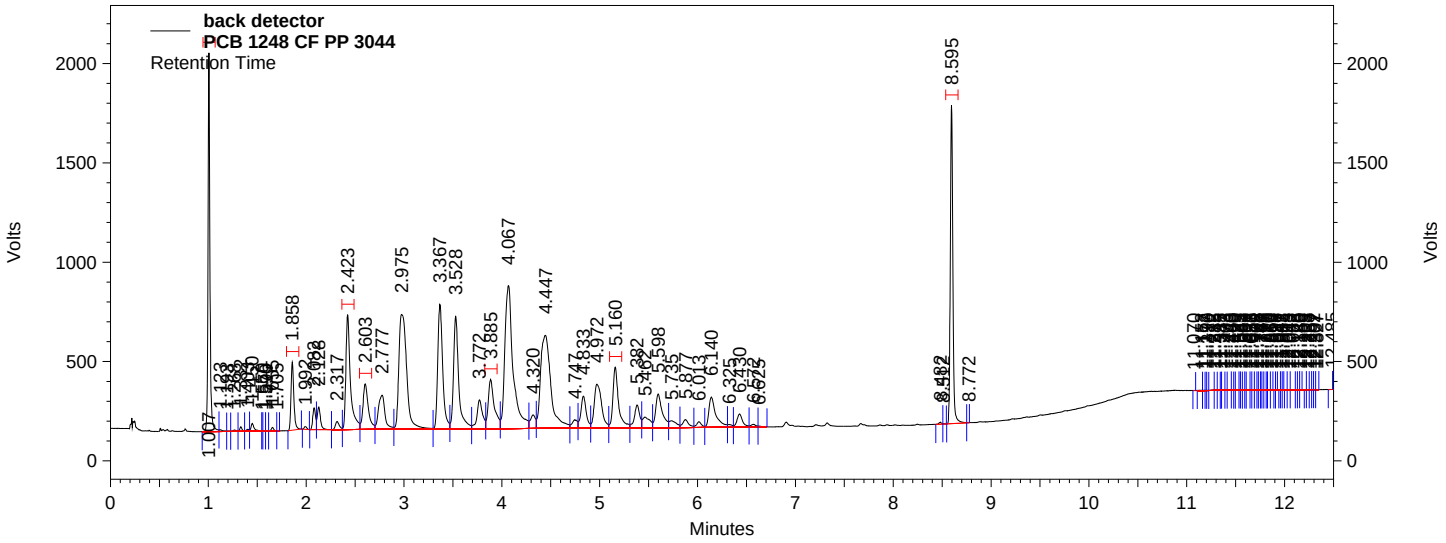
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.315	37498125	100.000 CAL
Aroclor 1248 #1	2.387	7544494	0.100 CAL
Aroclor 1248 #2	2.783	29058607	0.100 CAL
Aroclor 1248 #3	2.948	11635053	0.100 CAL
Aroclor 1248 #4	3.068	8431591	0.100 CAL
Aroclor 1248 #5	4.753	27634595	0.100 CAL
SURRDCB	9.027	45681722	100.000 CAL
Aroclor 1248		84304340	0.500 CAL

PCB Analysis Report (1248) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\015.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1248.met
User: jjy
Sample ID: PCB 1248 CF PP 3044
Acquired: 11/11/2010 8:06:17 PM
Printed: 11/15/2010 1:51:30 PM

JJY
11/15/10

Data Summary: {Data Description}



back detector Results

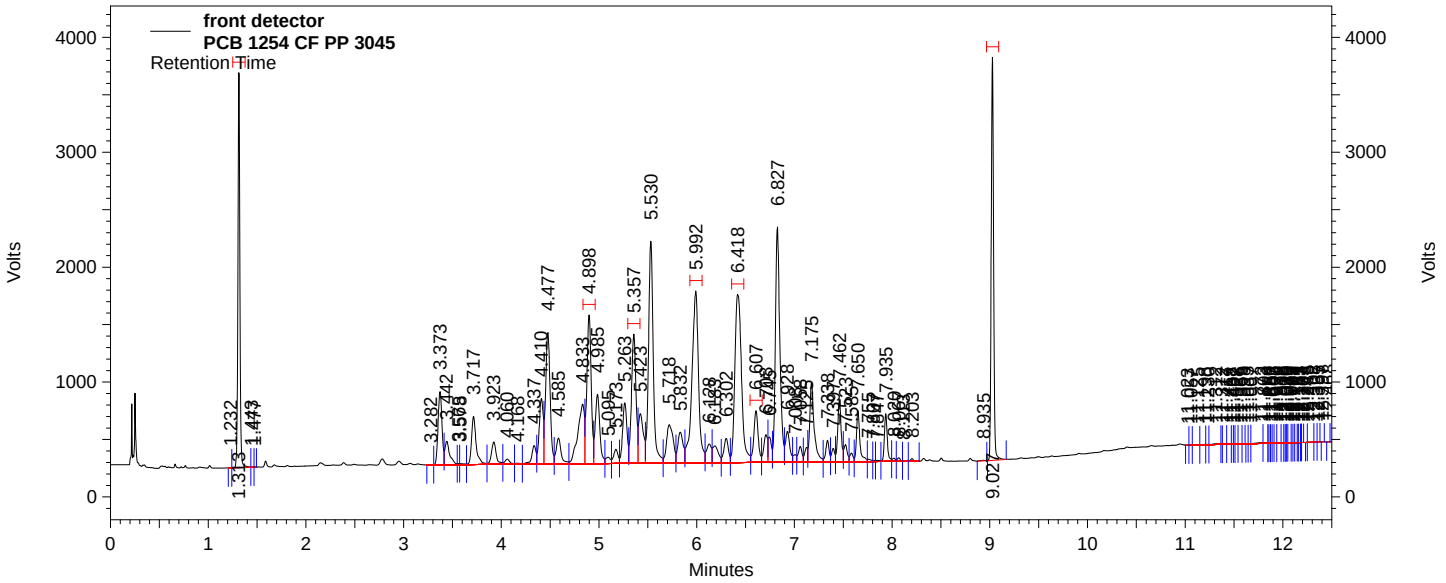
Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.007	19667257	100.000 CAL
Aroclor 1248 #1	1.858	5316395	0.100 CAL
Aroclor 1248 #2	2.423	14495289	0.100 CAL
Aroclor 1248 #3	2.603	6796372	0.100 CAL
Aroclor 1248 #4	3.885	8239344	0.100 CAL
Aroclor 1248 #5	5.160	9445636	0.100 CAL
SURRDCB	8.595	22499817	100.000 CAL
Aroclor 1248		44293036	0.500 CAL

PCB Analysis Report (1254) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\016.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1254.met
User: jjy
Sample ID: PCB 1254 CF PP 3045
Acquired: 11/11/2010 8:21:56 PM
Printed: 11/15/2010 1:51:39 PM

JJY
11/15/10

Data Summary: {Data Description}



front detector Results

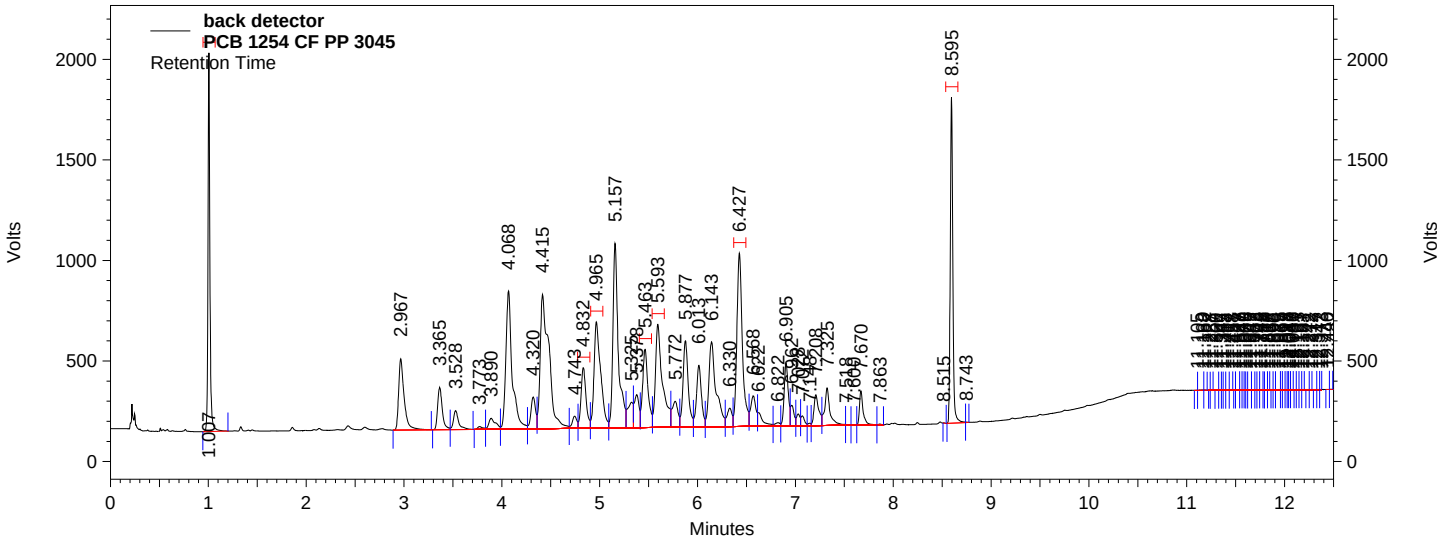
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.313	36802940	100.000 CAL
Aroclor 1254 #1	4.898	31168777	0.100 CAL
Aroclor 1254 #2	5.357	27669320	0.100 CAL
Aroclor 1254 #3	5.992	53760384	0.100 CAL
Aroclor 1254 #4	6.418	53517485	0.100 CAL
Aroclor 1254 #5	6.607	10918796	0.100 CAL
SURRDCB	9.027	45787981	100.000 CAL
Aroclor 1254		177034762	0.500 CAL

PCB Analysis Report (1254) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\016.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1254.met
User: jjy
Sample ID: PCB 1254 CF PP 3045
Acquired: 11/11/2010 8:21:56 PM
Printed: 11/15/2010 1:51:39 PM

JJY
11/15/10

Data Summary: {Data Description}



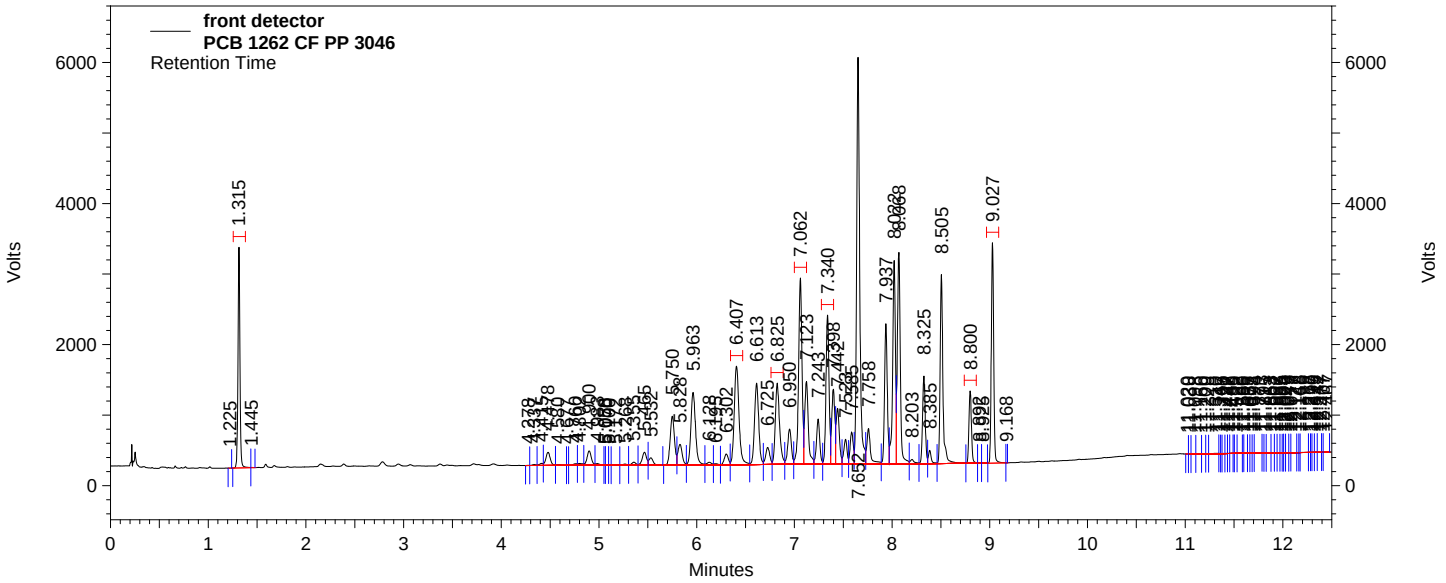
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.007	19538986	100.000 CAL
Aroclor 1254 #1	4.832	8155349	0.100 CAL
Aroclor 1254 #2	4.965	19231434	0.100 CAL
Aroclor 1254 #3	5.463	11481433	0.100 CAL
Aroclor 1254 #4	5.593	19624344	0.100 CAL
Aroclor 1254 #5	6.427	26105580	0.100 CAL
SURRDCB	8.595	22599379	100.000 CAL
Aroclor 1254		84598140	0.500 CAL

PCB Analysis Report (1262) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\017.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1262.met
User: jjy
Sample ID: PCB 1262 CF PP 3046
Acquired: 11/11/2010 8:37:33 PM JJY
Printed: 11/15/2010 1:51:48 PM 11/15/10

Data Summary: {Data Description}



front detector Results

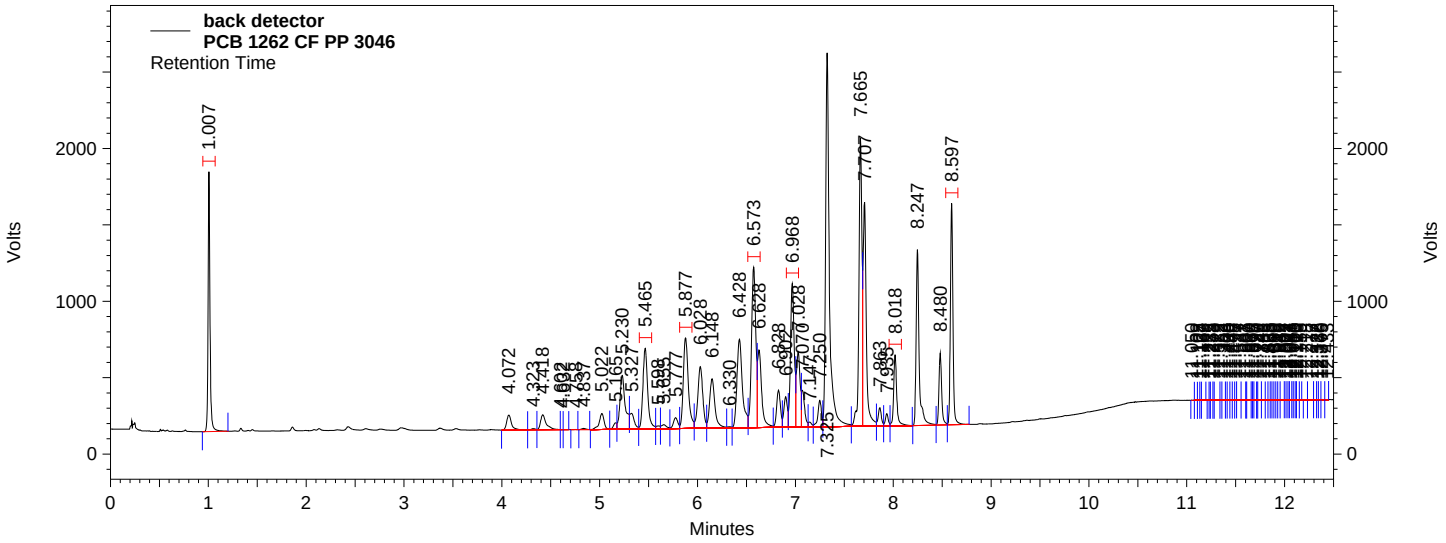
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.315	33545486	100.000 CAL
Aroclor 1262 #1	6.407	37104811	0.100 CAL
Aroclor 1262 #2	6.825	26447008	0.100 CAL
Aroclor 1262 #3	7.062	49827180	0.100 CAL
Aroclor 1262 #4	7.340	35564856	0.100 CAL
Aroclor 1262 #5	8.800	13909618	0.100 CAL
SURRDCB	9.027	40861662	100.000 CAL
Aroclor 1262		162853473	0.500 CAL

PCB Analysis Report (1262) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\017.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1262.met
User: jjy
Sample ID: PCB 1262 CF PP 3046
Acquired: 11/11/2010 8:37:33 PM
Printed: 11/15/2010 1:51:48 PM

JJY
11/15/10

Data Summary: {Data Description}



back detector Results

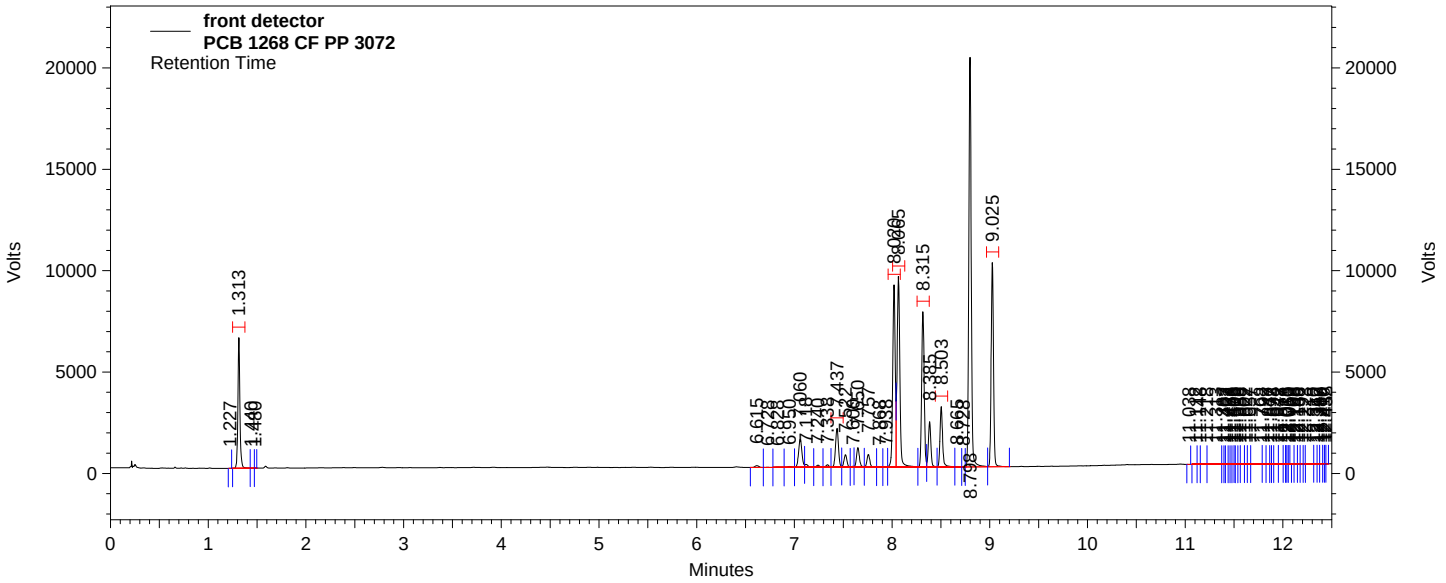
Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.007	17665491	100.000 CAL
Aroclor 1262 #1	5.465	13613017	0.100 CAL
Aroclor 1262 #2	5.877	16210590	0.100 CAL
Aroclor 1262 #3	6.573	24299187	0.100 CAL
Aroclor 1262 #4	6.968	19498286	0.100 CAL
Aroclor 1262 #5	8.018	7829570	0.100 CAL
SURRDCB	8.597	20314759	100.000 CAL
Aroclor 1262		81450650	0.500 CAL

PCB Analysis Report (1268) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\018.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1268.met
User: jjy
Sample ID: PCB 1268 CF PP 3072
Acquired: 11/11/2010 8:53:10 PM
Printed: 11/15/2010 1:51:57 PM

JJY
11/15/10

Data Summary: {Data Description}



front detector Results

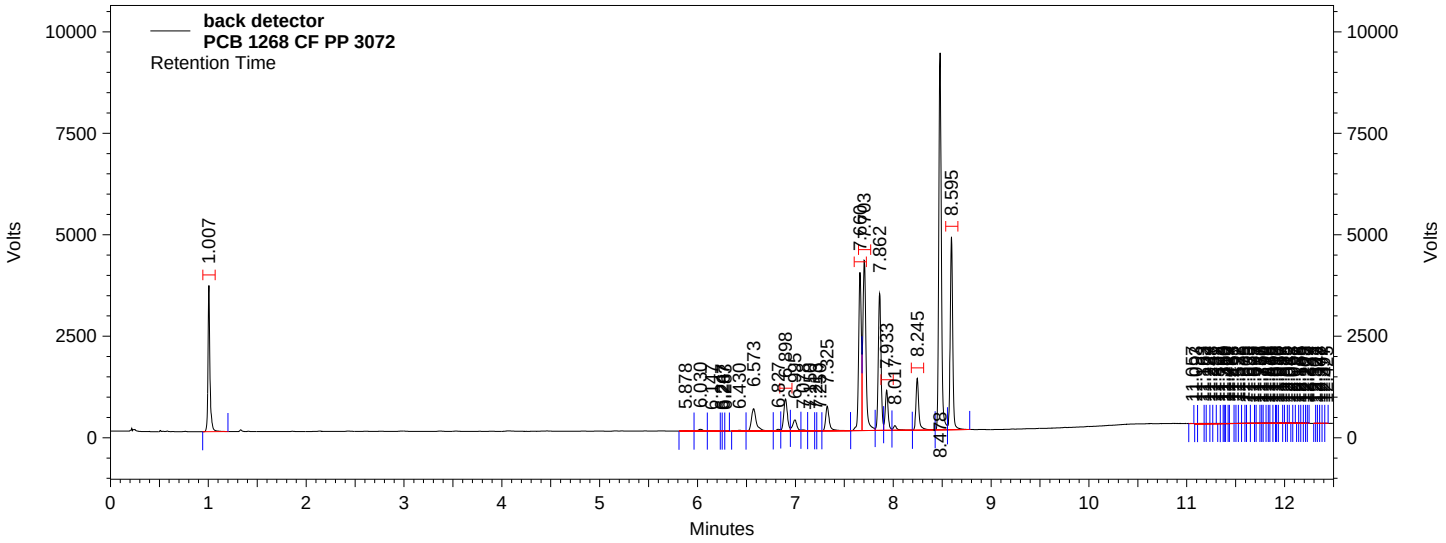
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.313	71352523	100.000 CAL
Aroclor 1268 #1	7.437	31578151	0.100 CAL
Aroclor 1268 #2	8.020	125426730	0.100 CAL
Aroclor 1268 #3	8.065	140711401	0.100 CAL
Aroclor 1268 #4	8.315	104994511	0.100 CAL
Aroclor 1268 #5	8.503	42146476	0.100 CAL
SURRDCB	9.025	129737545	100.000 CAL
Aroclor 1268		444857269	0.500 CAL

PCB Analysis Report (1268) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\018.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1268.met
User: jjy
Sample ID: PCB 1268 CF PP 3072
Acquired: 11/11/2010 8:53:10 PM
Printed: 11/15/2010 1:51:57 PM

JJY
11/15/10

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.007	38397011	100.000 CAL
Aroclor 1268 #1	6.898	15516764	0.100 CAL
Aroclor 1268 #2	7.660	57901303	0.100 CAL
Aroclor 1268 #3	7.703	69934319	0.100 CAL
Aroclor 1268 #4	7.933	15412498	0.100 CAL
Aroclor 1268 #5	8.245	20162355	0.100 CAL
SURRDCB	8.595	65683213	100.000 CAL
Aroclor 1268		178927239	0.500 CAL

QC Check Standard Report

Sequence : C:\Instarch\Semi7\Sequence\111110pcbic.seq
User : jjy
Printed : 11/15/2010 1:52:21 PM

File	Sample ID	Acquired
C:\Instarch\Semi7\Data\111110pcbic\020.dat	PCB 1221 ICV PP 3069	11/15/2010 1:52:21 PM

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMX	100.000	93.467	6.533	20.000	Passed
Aroclor 1221 #1	0.167	0.154	7.696	20.000	Passed
Aroclor 1221 #2	0.167	0.155	7.027	20.000	Passed
Aroclor 1221 #3	0.167	0.155	7.447	20.000	Passed
SURRDCB	100.000	93.865	6.135	20.000	Passed
Aroclor 1221	0.500	0.464	7.205	20.000	Passed

back detector

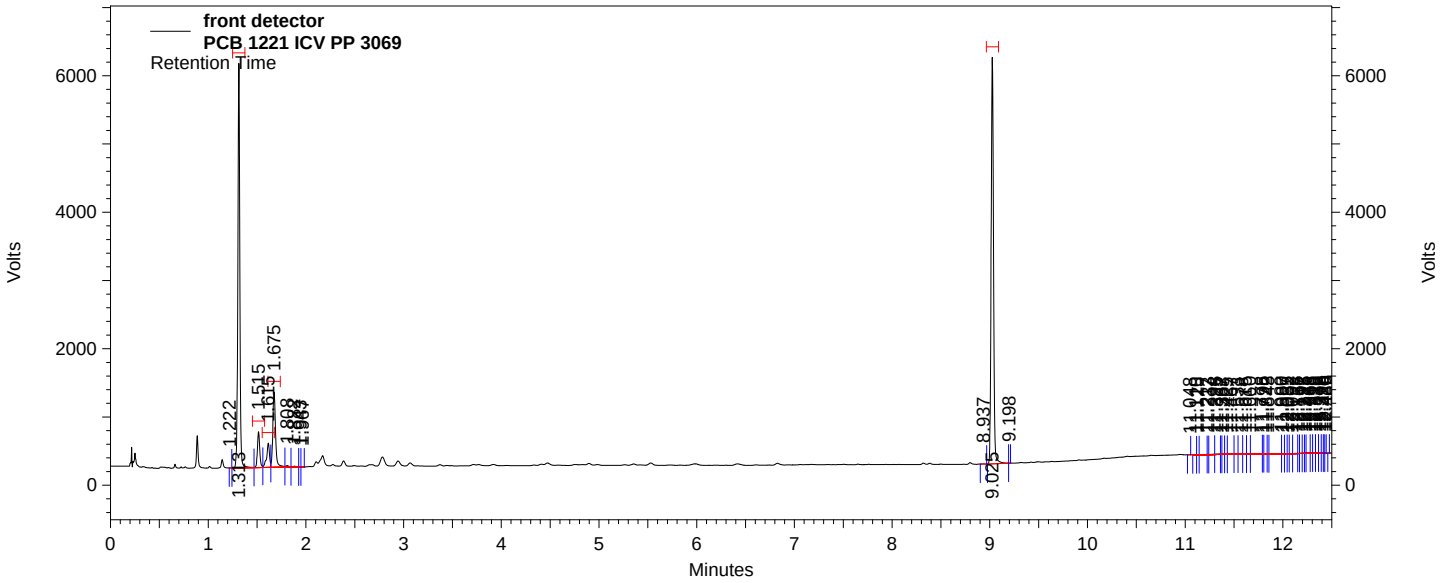
Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMX	100.000	93.682	6.318	20.000	Passed
Aroclor 1221 #1	0.167	0.153	8.501	20.000	Passed
Aroclor 1221 #2	0.167	0.157	6.204	20.000	Passed
Aroclor 1221 #3	0.167	0.154	8.010	20.000	Passed
SURRDCB	100.000	94.676	5.324	20.000	Passed
Aroclor 1221	0.500	0.463	7.387	20.000	Passed

PCB Analysis Report (1221) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\020.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1221.met
User: jjy
Sample ID: PCB 1221 ICV PP 3069
Acquired: 11/11/2010 9:24:25 PM
Printed: 11/15/2010 1:52:13 PM

JJY
11/15/10

Data Summary: {Data Description}



front detector Results

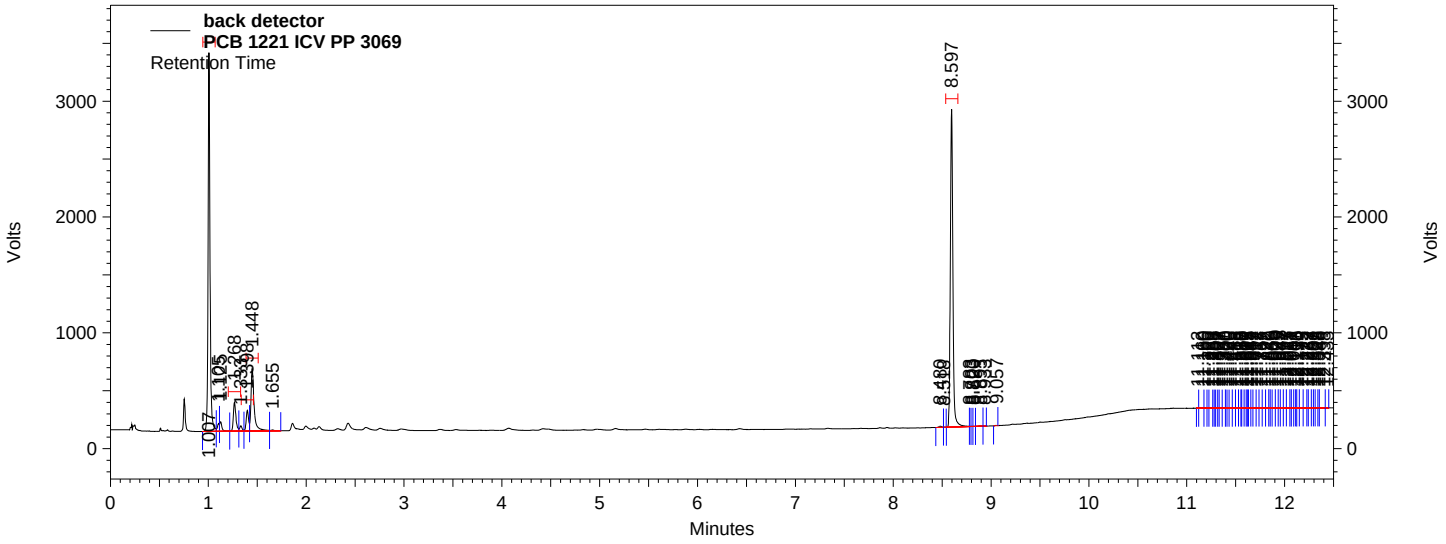
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.313	64161568	93.467
Aroclor 1221 #1	1.515	6731038	0.154
Aroclor 1221 #2	1.615	5576930	0.155
Aroclor 1221 #3	1.675	16273881	0.155
SURRDCB	9.025	77721948	93.865
Aroclor 1221		28581849	0.464

PCB Analysis Report (1221) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\020.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1221.met
User: jjy
Sample ID: PCB 1221 ICV PP 3069
Acquired: 11/11/2010 9:24:25 PM
Printed: 11/15/2010 1:52:13 PM

JJY
11/15/10

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.007	33874104	93.682
Aroclor 1221 #1	1.268	3542016	0.153
Aroclor 1221 #2	1.398	2387678	0.157
Aroclor 1221 #3	1.448	9207014	0.154
SURRDCB	8.597	38629062	94.676
Aroclor 1221		15136708	0.463

QC Check Standard Report

Sequence : C:\Instarch\Semi7\Sequence\111110pcbic.seq
User : jjy
Printed : 11/15/2010 1:52:37 PM

File	Sample ID	Acquired
C:\Instarch\Semi7\Data\111110pcbic\021.dat	PCB 1232 ICV PP 3048	11/15/2010 1:52:37 PM

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMX	100.000	108.092	8.092	20.000	Passed
Aroclor 1232 #1	0.100	0.108	8.158	20.000	Passed
Aroclor 1232 #2	0.100	0.111	10.603	20.000	Passed
Aroclor 1232 #3	0.100	0.111	10.730	20.000	Passed
Aroclor 1232 #4	0.100	0.111	10.589	20.000	Passed
Aroclor 1232 #5	0.100	0.113	12.774	20.000	Passed
SURRDCB	100.000	110.804	10.804	20.000	Passed
Aroclor 1232	0.500	0.553	10.571	20.000	Passed

back detector

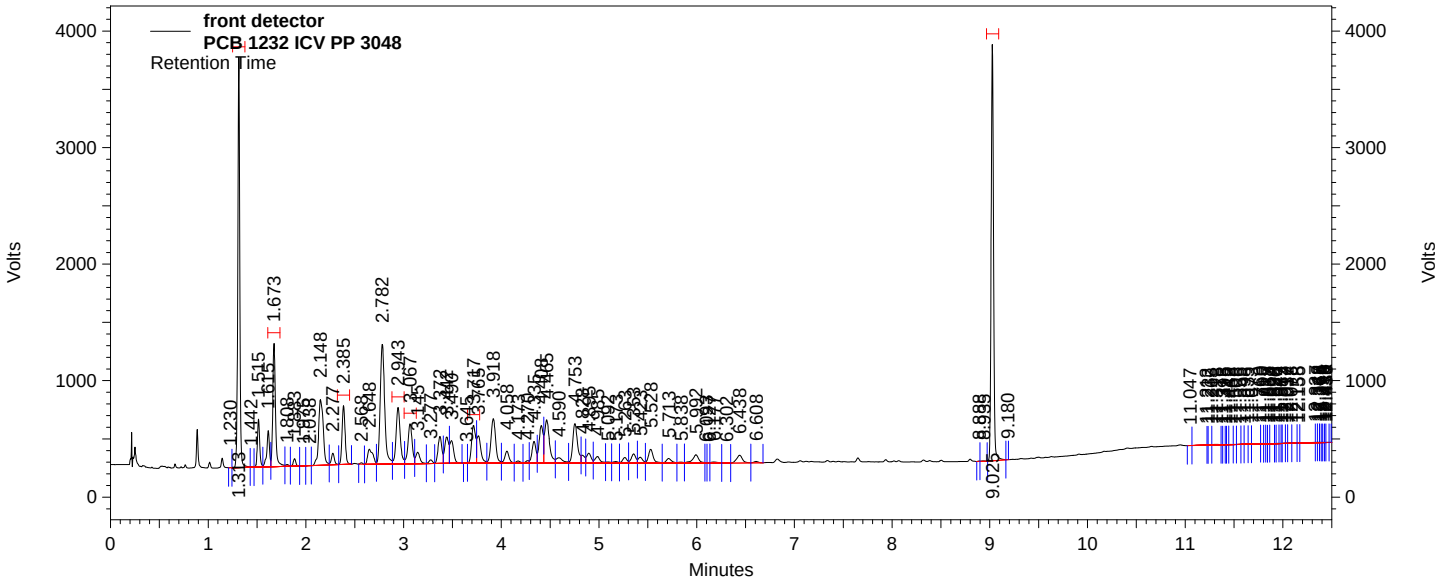
Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMX	100.000	109.993	9.993	20.000	Passed
Aroclor 1232 #1	0.100	0.108	7.880	20.000	Passed
Aroclor 1232 #2	0.100	0.109	8.930	20.000	Passed
Aroclor 1232 #3	0.100	0.108	7.888	20.000	Passed
Aroclor 1232 #4	0.100	0.105	5.116	20.000	Passed
Aroclor 1232 #5	0.100	0.103	2.649	20.000	Passed
SURRDCB	100.000	112.014	12.014	20.000	Passed
Aroclor 1232	0.500	0.532	6.492	20.000	Passed

PCB Analysis Report (1232) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\021.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1232.met
User: jjy
Sample ID: PCB 1232 ICV PP 3048
Acquired: 11/11/2010 9:40:04 PM
Printed: 11/15/2010 1:52:34 PM

JJY
11/15/10

Data Summary: {Data Description}



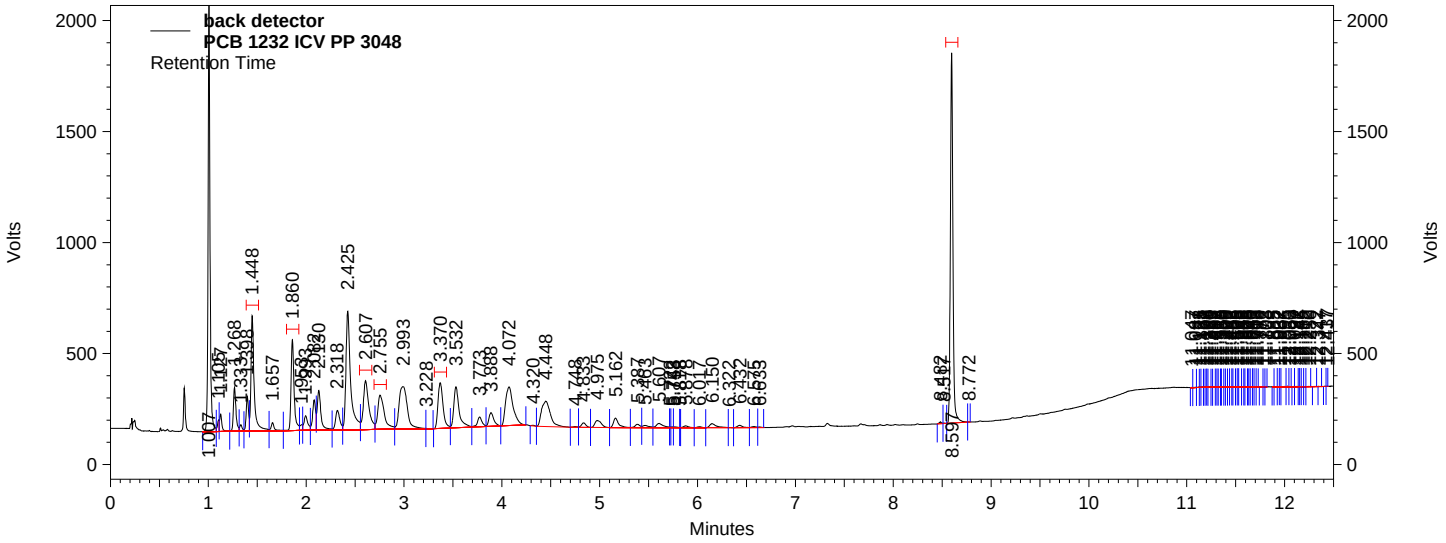
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.313	38420541	108.092
Aroclor 1232 #1	1.673	15428523	0.108
Aroclor 1232 #2	2.385	8478623	0.111
Aroclor 1232 #3	2.943	11150513	0.111
Aroclor 1232 #4	3.067	7781997	0.111
Aroclor 1232 #5	3.717	7114557	0.113
SURRDCB	9.025	46829701	110.804
Aroclor 1232		49954213	0.553

PCB Analysis Report (1232) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\021.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1232.met
User: jjy
Sample ID: PCB 1232 ICV PP 3048
Acquired: 11/11/2010 9:40:04 PM JJY
Printed: 11/15/2010 1:52:34 PM 11/15/10

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.007	20225544	109.993
Aroclor 1232 #1	1.448	8891468	0.108
Aroclor 1232 #2	1.860	6855947	0.109
Aroclor 1232 #3	2.607	6704461	0.108
Aroclor 1232 #4	2.755	5544292	0.105
Aroclor 1232 #5	3.370	5632596	0.103
SURRDCB	8.597	23346411	112.014
Aroclor 1232		33628764	0.532

QC Check Standard Report

Sequence : C:\Instarch\Semi7\Sequence\111110pcbic.seq
User : jjy
Printed : 11/15/2010 1:52:57 PM

File	Sample ID	Acquired
C:\Instarch\Semi7\Data\111110pcbic\022.dat	PCB 1242 ICV PP 3049	11/15/2010 1:52:57 PM

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMX	100.000	101.124	1.124	20.000	Passed
Aroclor 1242 #1	0.100	0.102	1.703	20.000	Passed
Aroclor 1242 #2	0.100	0.102	1.709	20.000	Passed
Aroclor 1242 #3	0.100	0.101	1.427	20.000	Passed
Aroclor 1242 #4	0.100	0.101	1.236	20.000	Passed
Aroclor 1242 #5	0.100	0.102	2.278	20.000	Passed
SURRDCB	100.000	102.870	2.870	20.000	Passed
Aroclor 1242	0.500	0.508	1.671	20.000	Passed

back detector

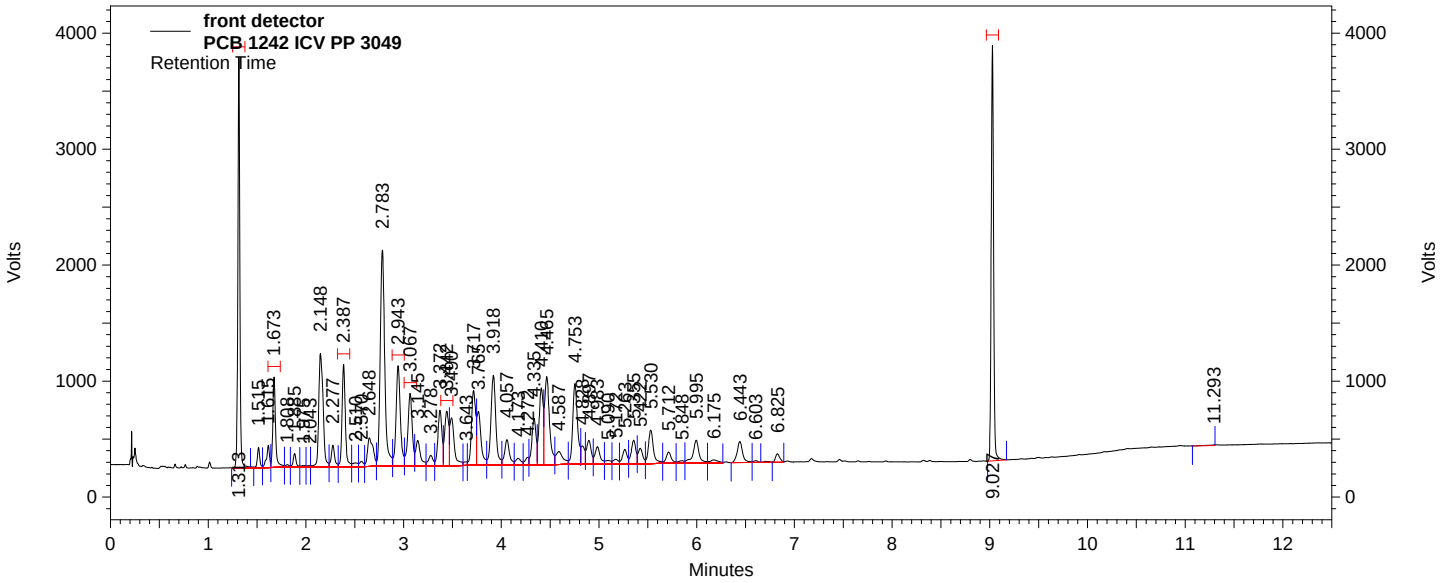
Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMX	100.000	102.724	2.724	20.000	Passed
Aroclor 1242 #1	0.100	0.106	5.769	20.000	Passed
Aroclor 1242 #2	0.100	0.103	3.003	20.000	Passed
Aroclor 1242 #3	0.100	0.104	3.649	20.000	Passed
Aroclor 1242 #4	0.100	0.104	4.081	20.000	Passed
Aroclor 1242 #5	0.100	0.104	4.136	20.000	Passed
SURRDCB	100.000	103.950	3.950	20.000	Passed
Aroclor 1242	0.500	0.521	4.128	20.000	Passed

PCB Analysis Report (1242) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\022.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1242.met
User: jjy
Sample ID: PCB 1242 ICV PP 3049
Acquired: 11/11/2010 9:55:44 PM
Printed: 11/15/2010 1:52:52 PM

JJY
11/15/10

Data Summary: {Data Description}



front detector Results

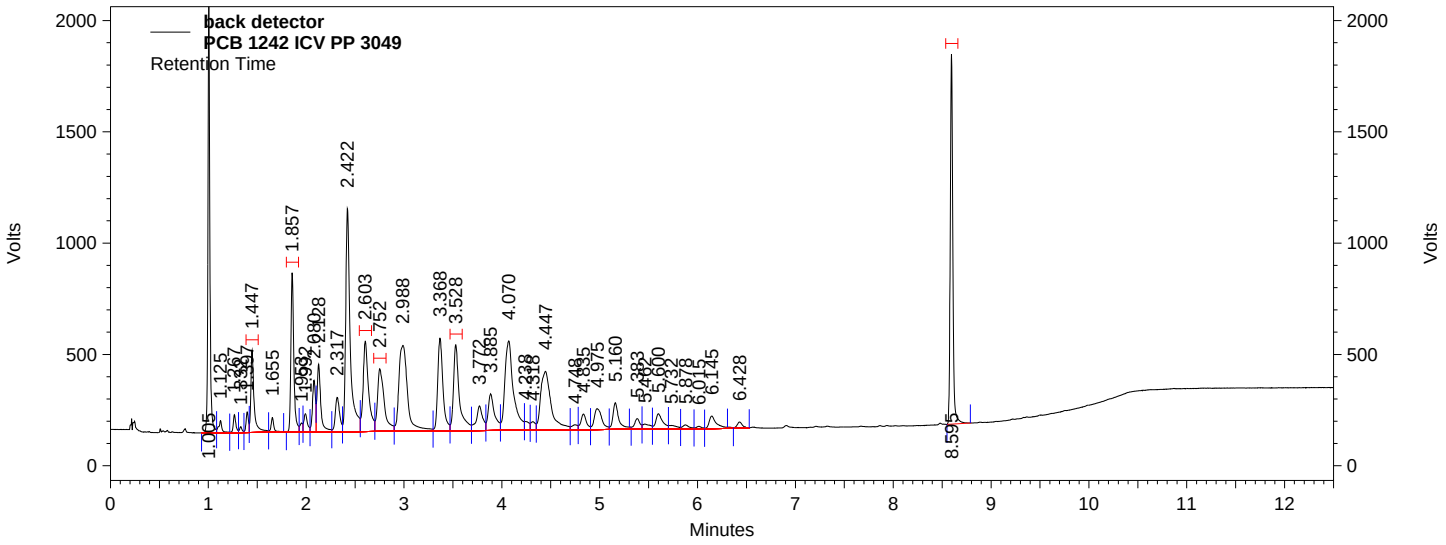
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.313	38602895	101.124
Aroclor 1242 #1	1.673	11630391	0.102
Aroclor 1242 #2	2.387	15999708	0.102
Aroclor 1242 #3	2.943	20630356	0.101
Aroclor 1242 #4	3.067	14857908	0.101
Aroclor 1242 #5	3.442	10297932	0.102
SURRDCB	9.027	46916289	102.870
Aroclor 1242		73416295	0.508

PCB Analysis Report (1242) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\022.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1242.met
User: jjy
Sample ID: PCB 1242 ICV PP 3049
Acquired: 11/11/2010 9:55:44 PM
Printed: 11/15/2010 1:52:52 PM

JJY
11/15/10

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.005	20302676	102.724
Aroclor 1242 #1	1.447	6501760	0.106
Aroclor 1242 #2	1.857	11571104	0.103
Aroclor 1242 #3	2.603	12067965	0.104
Aroclor 1242 #4	2.752	10299715	0.104
Aroclor 1242 #5	3.528	12416992	0.104
SURRDCB	8.595	23375612	103.950
Aroclor 1242		52857536	0.521

QC Check Standard Report

Sequence : C:\Instarch\Semi7\Sequence\111110pcbic.seq
User : jjy
Printed : 11/15/2010 1:53:13 PM

File	Sample ID	Acquired
C:\Instarch\Semi7\Data\111110pcbic\023.dat	PCB 1248 ICV PP 3050	11/15/2010 1:53:13 PM

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMX	100.000	95.865	4.135	20.000	Passed
Aroclor 1248 #1	0.100	0.100	0.445	20.000	Passed
Aroclor 1248 #2	0.100	0.098	1.935	20.000	Passed
Aroclor 1248 #3	0.100	0.099	1.401	20.000	Passed
Aroclor 1248 #4	0.100	0.099	1.294	20.000	Passed
Aroclor 1248 #5	0.100	0.097	3.362	20.000	Passed
SURRDCB	100.000	96.188	3.812	20.000	Passed
Aroclor 1248	0.500	0.492	1.510	20.000	Passed

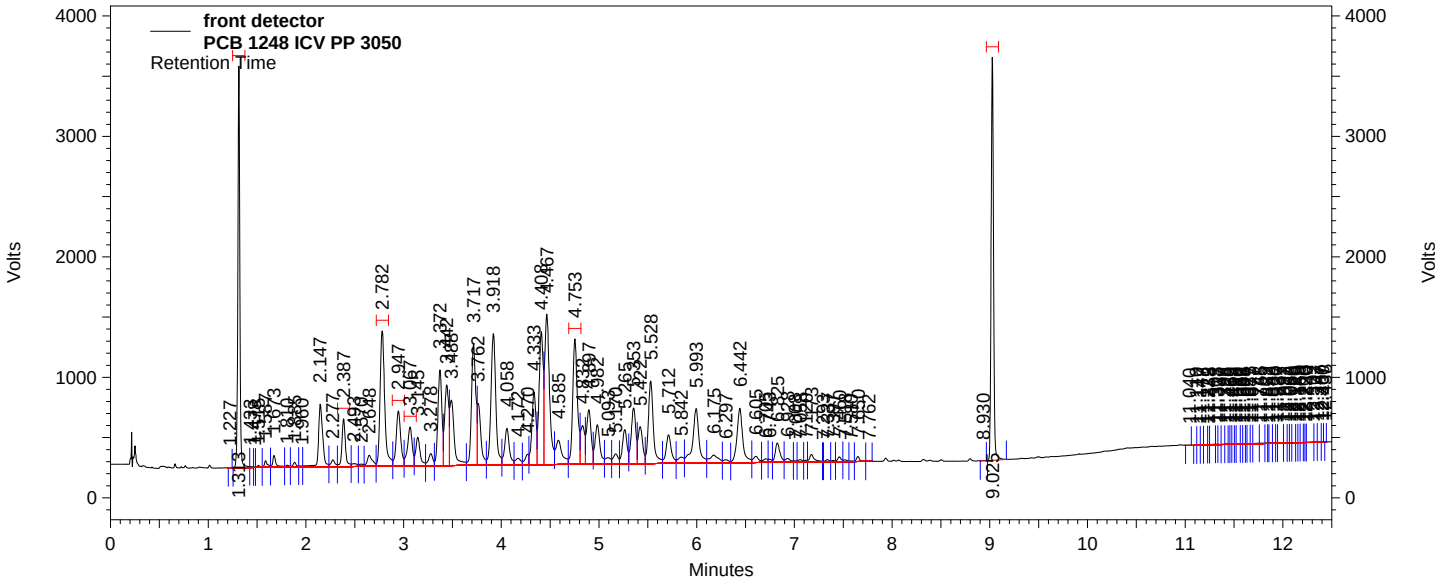
back detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMX	100.000	97.008	2.992	20.000	Passed
Aroclor 1248 #1	0.100	0.107	7.273	20.000	Passed
Aroclor 1248 #2	0.100	0.101	1.168	20.000	Passed
Aroclor 1248 #3	0.100	0.104	4.134	20.000	Passed
Aroclor 1248 #4	0.100	0.101	1.199	20.000	Passed
Aroclor 1248 #5	0.100	0.101	0.943	20.000	Passed
SURRDCB	100.000	97.401	2.599	20.000	Passed
Aroclor 1248	0.500	0.515	2.943	20.000	Passed

PCB Analysis Report (1248) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\023.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1248.met
User: jjy
Sample ID: PCB 1248 ICV PP 3050
Acquired: 11/11/2010 10:11:23 PM JJY
Printed: 11/15/2010 1:53:08 PM 11/15/10

Data Summary: {Data Description}



front detector Results

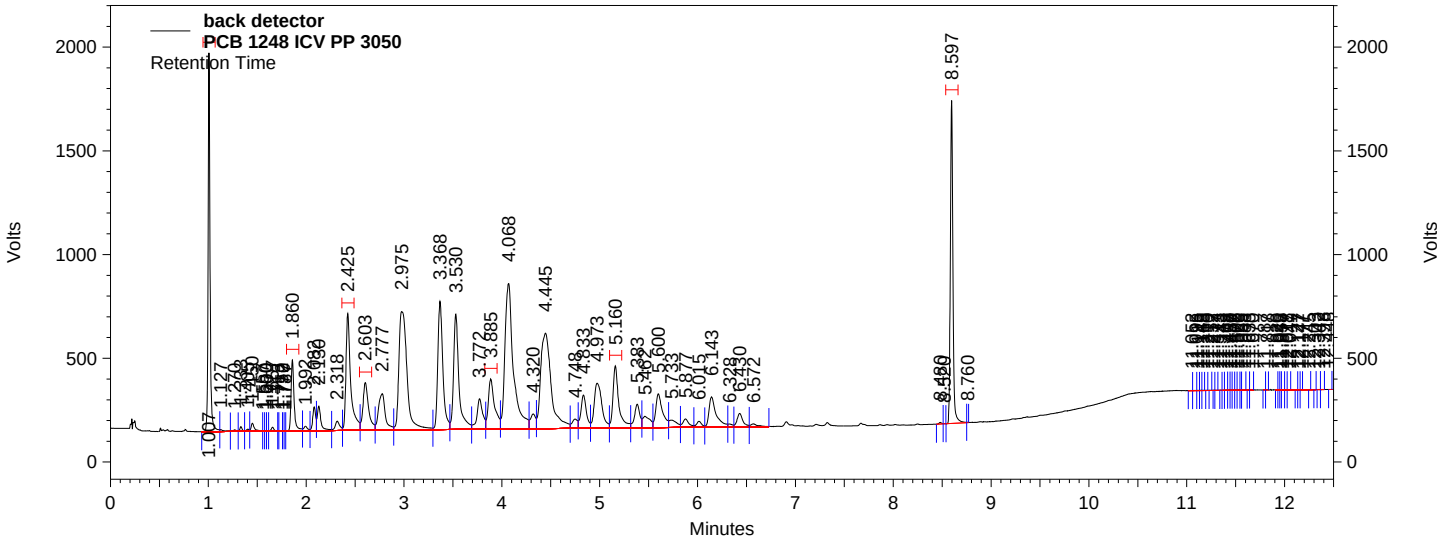
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.313	35947690	95.865
Aroclor 1248 #1	2.387	7578046	0.100
Aroclor 1248 #2	2.782	28496189	0.098
Aroclor 1248 #3	2.947	11472007	0.099
Aroclor 1248 #4	3.067	8322491	0.099
Aroclor 1248 #5	4.753	26705459	0.097
SURRDCB	9.025	43940343	96.188
Aroclor 1248		82574192	0.492

PCB Analysis Report (1248) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\023.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1248.met
User: jjy
Sample ID: PCB 1248 ICV PP 3050
Acquired: 11/11/2010 10:11:23 PM
Printed: 11/15/2010 1:53:08 PM

JJY
11/15/10

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.007	19078729	97.008
Aroclor 1248 #1	1.860	5703045	0.107
Aroclor 1248 #2	2.425	14664584	0.101
Aroclor 1248 #3	2.603	7077314	0.104
Aroclor 1248 #4	3.885	8338156	0.101
Aroclor 1248 #5	5.160	9534739	0.101
SURRDCB	8.597	21915032	97.401
Aroclor 1248		45317838	0.515

QC Check Standard Report

Sequence : C:\Instarch\Semi7\Sequence\111110pcbic.seq
User : jjy
Printed : 11/15/2010 1:53:28 PM

File	Sample ID	Acquired
C:\Instarch\Semi7\Data\111110pcbic\024.dat	PCB 1254 ICV PP 3051	11/15/2010 1:53:28 PM

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMX	100.000	105.048	5.048	20.000	Passed
Aroclor 1254 #1	0.100	0.104	4.317	20.000	Passed
Aroclor 1254 #2	0.100	0.104	4.252	20.000	Passed
Aroclor 1254 #3	0.100	0.105	4.996	20.000	Passed
Aroclor 1254 #4	0.100	0.105	5.115	20.000	Passed
Aroclor 1254 #5	0.100	0.106	5.971	20.000	Passed
SURRDCB	100.000	104.531	4.531	20.000	Passed
Aroclor 1254	0.500	0.525	4.930	20.000	Passed

back detector

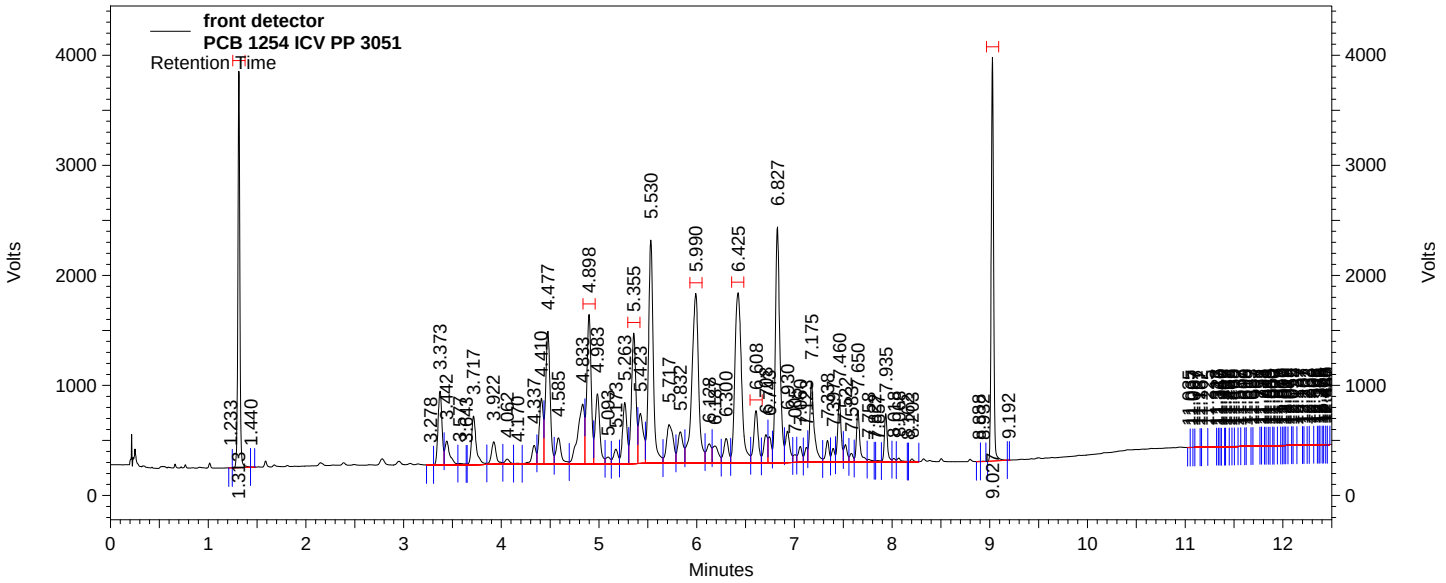
Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMX	100.000	105.983	5.983	20.000	Passed
Aroclor 1254 #1	0.100	0.106	5.769	20.000	Passed
Aroclor 1254 #2	0.100	0.106	5.649	20.000	Passed
Aroclor 1254 #3	0.100	0.106	5.724	20.000	Passed
Aroclor 1254 #4	0.100	0.106	6.164	20.000	Passed
Aroclor 1254 #5	0.100	0.106	5.526	20.000	Passed
SURRDCB	100.000	105.240	5.240	20.000	Passed
Aroclor 1254	0.500	0.529	5.766	20.000	Passed

PCB Analysis Report (1254) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\024.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1254.met
User: jjy
Sample ID: PCB 1254 ICV PP 3051
Acquired: 11/11/2010 10:27:02 PM
Printed: 11/15/2010 1:53:24 PM

JJY
11/15/10

Data Summary: {Data Description}



front detector Results

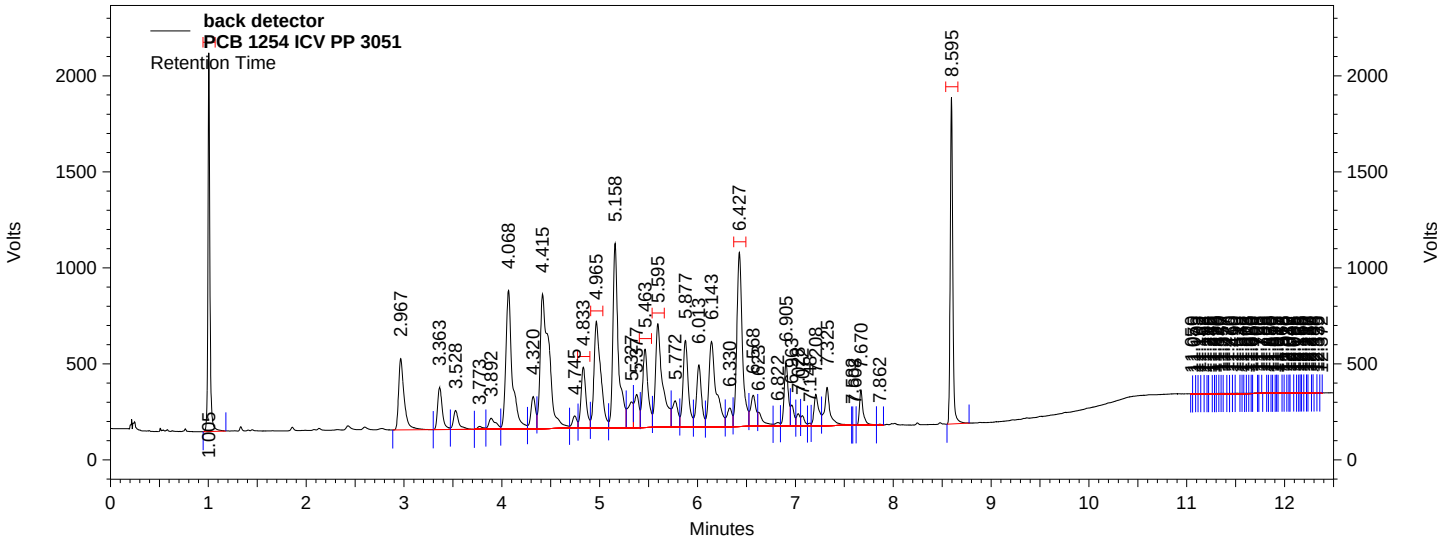
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.313	38660574	105.048
Aroclor 1254 #1	4.898	32514184	0.104
Aroclor 1254 #2	5.355	28845811	0.104
Aroclor 1254 #3	5.990	56446179	0.105
Aroclor 1254 #4	6.425	56254991	0.105
Aroclor 1254 #5	6.608	11570775	0.106
SURRDCB	9.027	47862528	104.531
Aroclor 1254		185631940	0.525

PCB Analysis Report (1254) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\024.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1254.met
User: jjy
Sample ID: PCB 1254 ICV PP 3051
Acquired: 11/11/2010 10:27:02 PM
Printed: 11/15/2010 1:53:24 PM

JJY
11/15/10

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.005	20708011	105.983
Aroclor 1254 #1	4.833	8625833	0.106
Aroclor 1254 #2	4.965	20317767	0.106
Aroclor 1254 #3	5.463	12138618	0.106
Aroclor 1254 #4	5.595	20834002	0.106
Aroclor 1254 #5	6.427	27548173	0.106
SURRDCB	8.595	23783691	105.240
Aroclor 1254		89464393	0.529

QC Check Standard Report

Sequence : C:\Instarch\Semi7\Sequence\111110pcbic.seq
User : jjy
Printed : 11/15/2010 1:53:43 PM

File	Sample ID	Acquired
C:\Instarch\Semi7\Data\111110pcbic\025.dat	PCB 1262 ICV PP 3052	11/15/2010 1:53:43 PM

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMX	100.000	114.383	14.383	20.000	Passed
Aroclor 1262 #1	0.100	0.115	15.198	20.000	Passed
Aroclor 1262 #2	0.100	0.116	16.230	20.000	Passed
Aroclor 1262 #3	0.100	0.116	15.572	20.000	Passed
Aroclor 1262 #4	0.100	0.114	14.369	20.000	Passed
Aroclor 1262 #5	0.100	0.118	18.414	20.000	Passed
SURRDCB	100.000	114.758	14.758	20.000	Passed
Aroclor 1262	0.500	0.580	15.957	20.000	Passed

back detector

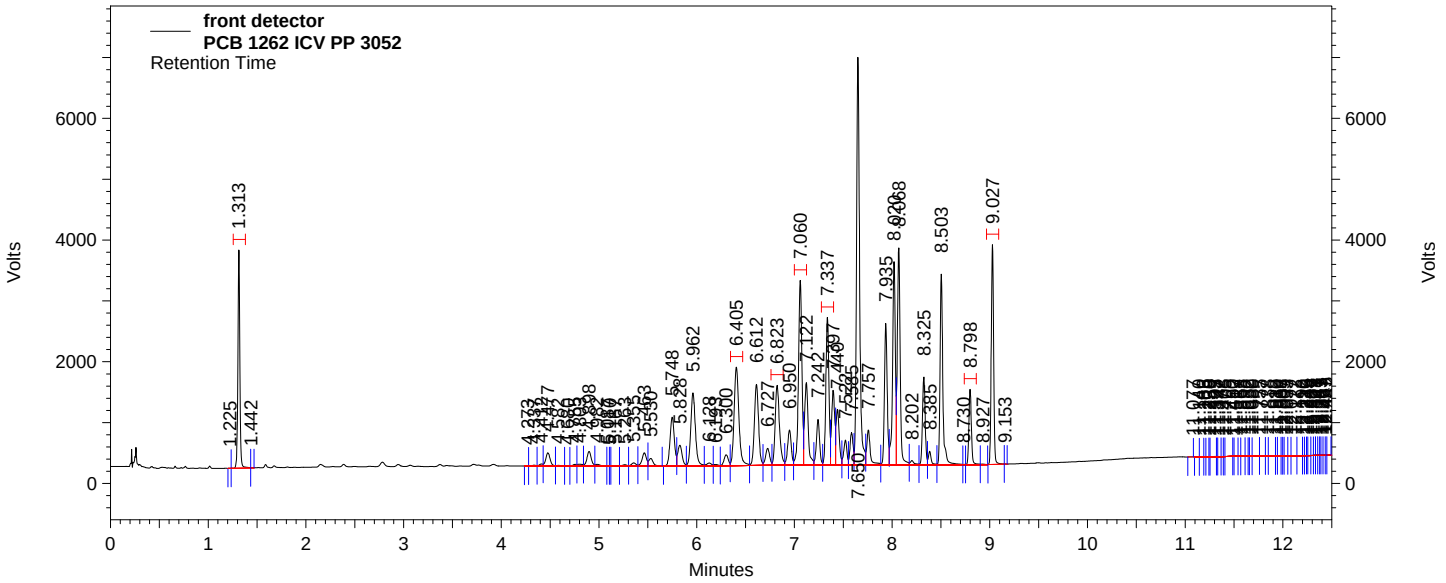
Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMX	100.000	115.882	15.882	20.000	Passed
Aroclor 1262 #1	0.100	0.117	16.892	20.000	Passed
Aroclor 1262 #2	0.100	0.118	17.818	20.000	Passed
Aroclor 1262 #3	0.100	0.119	18.575	20.000	Passed
Aroclor 1262 #4	0.100	0.117	17.043	20.000	Passed
Aroclor 1262 #5	0.100	0.118	18.359	20.000	Passed
SURRDCB	100.000	116.011	16.011	20.000	Passed
Aroclor 1262	0.500	0.589	17.737	20.000	Passed

PCB Analysis Report (1262) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\025.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1262.met
User: jjy
Sample ID: PCB 1262 ICV PP 3052
Acquired: 11/11/2010 10:42:43 PM
Printed: 11/15/2010 1:53:39 PM

JJY
11/15/10

Data Summary: {Data Description}



front detector Results

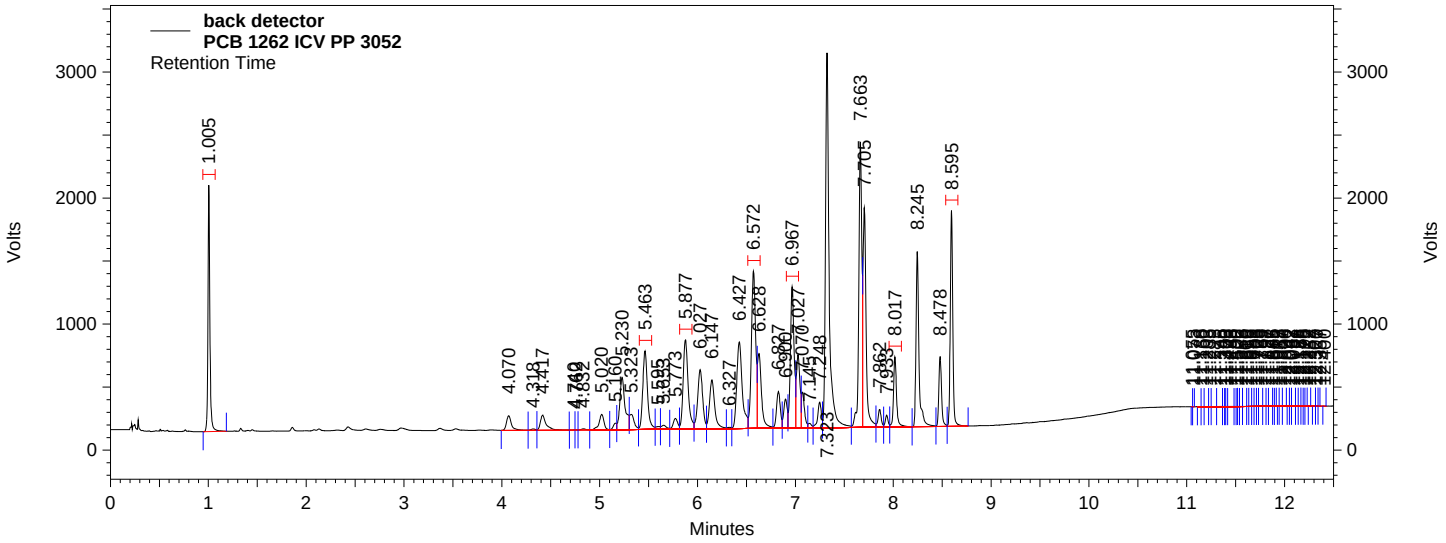
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.313	38370389	114.383
Aroclor 1262 #1	6.405	42743990	0.115
Aroclor 1262 #2	6.823	30739263	0.116
Aroclor 1262 #3	7.060	57586413	0.116
Aroclor 1262 #4	7.337	40675297	0.114
Aroclor 1262 #5	8.798	16470873	0.118
SURRDCB	9.027	46891890	114.758
Aroclor 1262		188215836	0.580

PCB Analysis Report (1262) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\025.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1262.met
User: jjy
Sample ID: PCB 1262 ICV PP 3052
Acquired: 11/11/2010 10:42:43 PM
Printed: 11/15/2010 1:53:39 PM

JJY
11/15/10

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.005	20471149	115.882
Aroclor 1262 #1	5.463	15912469	0.117
Aroclor 1262 #2	5.877	19099071	0.118
Aroclor 1262 #3	6.572	28812749	0.119
Aroclor 1262 #4	6.967	22821305	0.117
Aroclor 1262 #5	8.017	9267026	0.118
SURRDCB	8.595	23567341	116.011
Aroclor 1262		95912620	0.589

QC Check Standard Report

Sequence : C:\Instarch\Semi7\Sequence\111110pcbic.seq
User : jjy
Printed : 11/15/2010 1:54:00 PM

File	Sample ID	Acquired
C:\Instarch\Semi7\Data\111110pcbic\026.dat	PCB 1268 ICV PP 3073	11/15/2010 1:54:00 PM

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMX	100.000	102.732	2.732	20.000	Passed
Aroclor 1268 #1	0.100	0.093	7.070	20.000	Passed
Aroclor 1268 #2	0.100	0.103	2.781	20.000	Passed
Aroclor 1268 #3	0.100	0.094	6.132	20.000	Passed
Aroclor 1268 #4	0.100	0.107	6.838	20.000	Passed
Aroclor 1268 #5	0.100	0.115	15.029	20.000	Passed
SURRDCB	100.000	112.796	12.796	20.000	Passed
Aroclor 1268	0.500	0.511	2.289	20.000	Passed

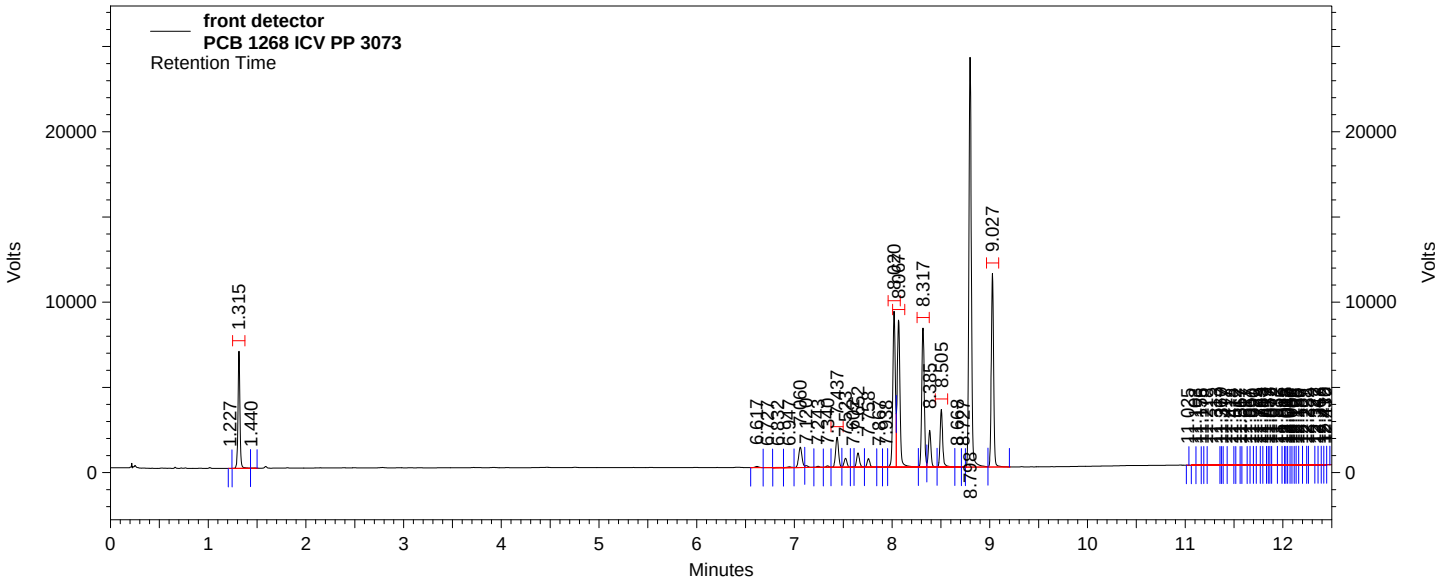
back detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMX	100.000	102.865	2.865	20.000	Passed
Aroclor 1268 #1	0.100	0.094	6.191	20.000	Passed
Aroclor 1268 #2	0.100	0.103	3.310	20.000	Passed
Aroclor 1268 #3	0.100	0.094	5.507	20.000	Passed
Aroclor 1268 #4	0.100	0.099	0.909	20.000	Passed
Aroclor 1268 #5	0.100	0.116	15.537	20.000	Passed
SURRDCB	100.000	113.777	13.777	20.000	Passed
Aroclor 1268	0.500	0.506	1.248	20.000	Passed

PCB Analysis Report (1268) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\026.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1268.met
User: jjy
Sample ID: PCB 1268 ICV PP 3073 JJY
Acquired: 11/11/2010 10:58:25 PM 11/15/10
Printed: 11/15/2010 1:53:55 PM

Data Summary: {Data Description}



front detector Results

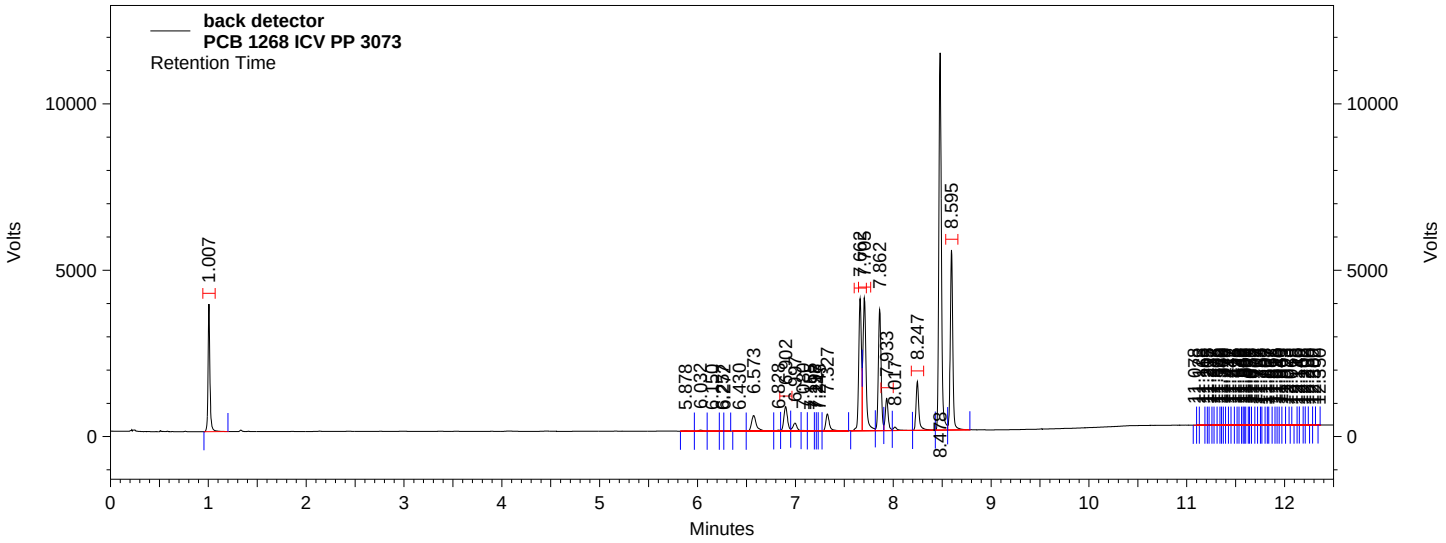
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.315	73302190	102.732
Aroclor 1268 #1	7.437	29345511	0.093
Aroclor 1268 #2	8.020	128915427	0.103
Aroclor 1268 #3	8.067	132083377	0.094
Aroclor 1268 #4	8.317	112174168	0.107
Aroclor 1268 #5	8.505	48480673	0.115
SURRDCB	9.027	146338328	112.796
Aroclor 1268		450999156	0.511

PCB Analysis Report (1268) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\026.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1268.met
User: jjy
Sample ID: PCB 1268 ICV PP 3073
Acquired: 11/11/2010 10:58:25 PM
Printed: 11/15/2010 1:53:55 PM

JJY
11/15/10

Data Summary: {Data Description}



back detector Results

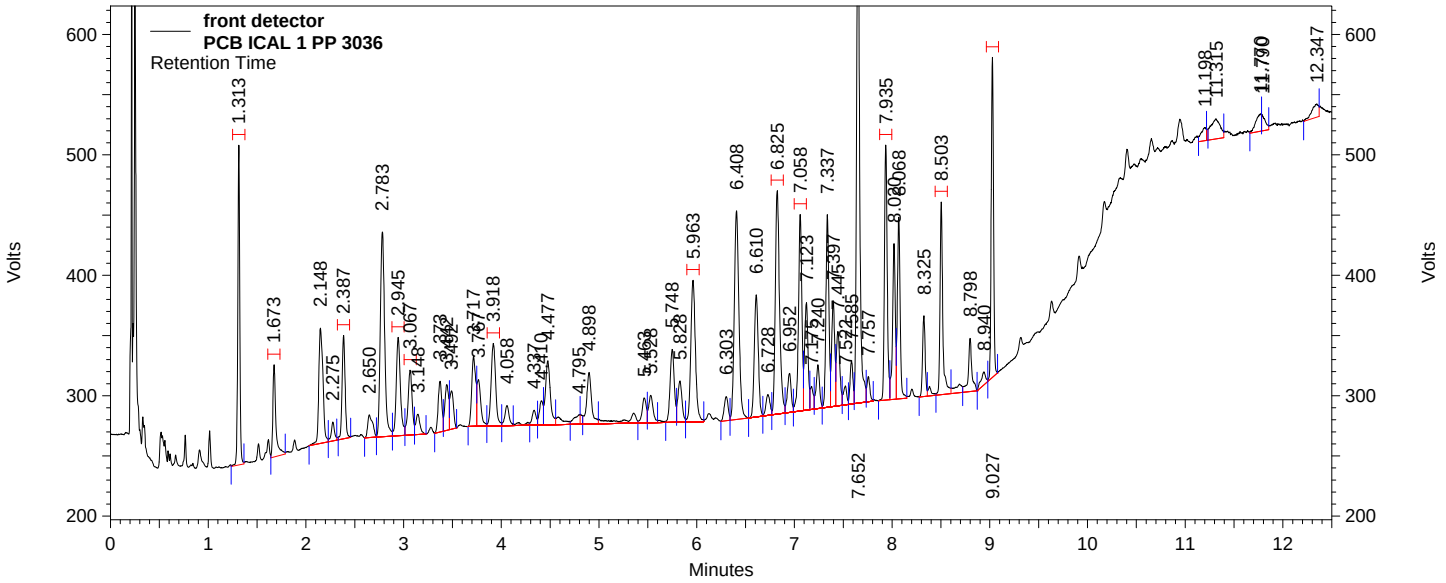
Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.007	39497101	102.865
Aroclor 1268 #1	6.902	14556116	0.094
Aroclor 1268 #2	7.662	59817552	0.103
Aroclor 1268 #3	7.705	66083388	0.094
Aroclor 1268 #4	7.933	15272343	0.099
Aroclor 1268 #5	8.247	23295009	0.116
SURRDCB	8.595	74732214	113.777
Aroclor 1268		179024408	0.506

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\003.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
User: jjy
Sample ID: PCB ICAL 1 PP 3036
Acquired: 11/11/2010 4:58:08 PM
Printed: 11/15/2010 1:49:22 PM

JJY
11/15/10

Data Summary: {Data Description}



back detector Results

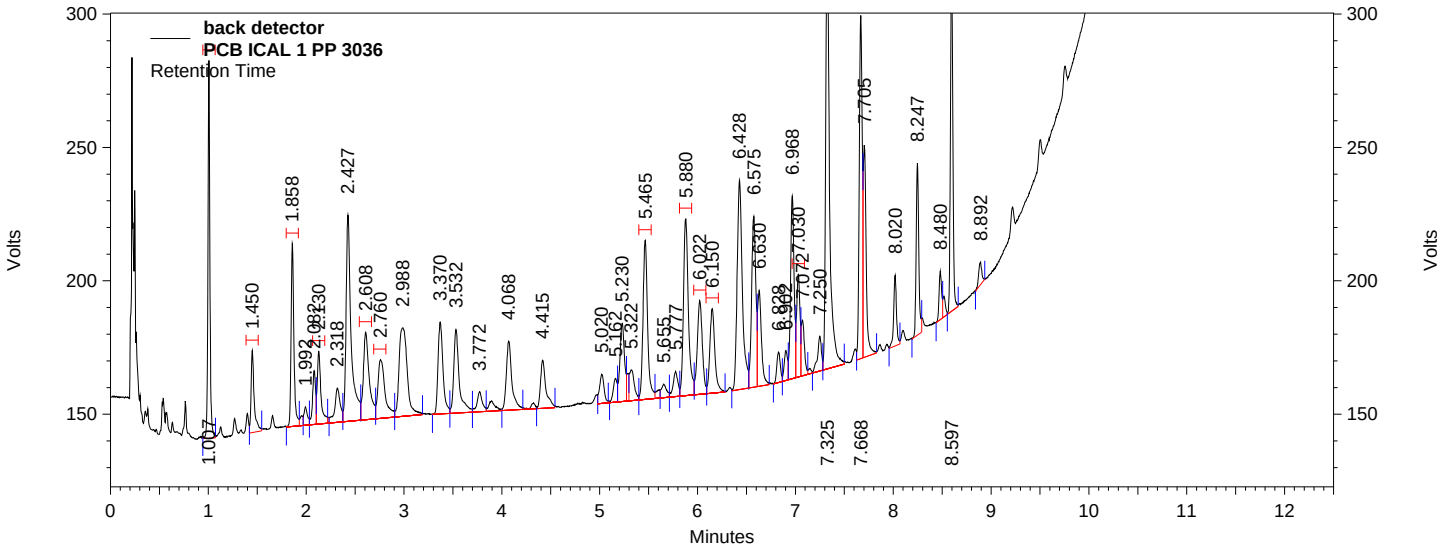
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.007	1500033	6.000 CAL
Aroclor 1016 #1	1.450	514334	0.006 CAL
Aroclor 1016 #2	1.858	1063602	0.006 CAL
Aroclor 1016 #3	2.130	557648	0.006 CAL
Aroclor 1016 #4	2.608	1073011	0.006 CAL
Aroclor 1016 #5	2.760	855088	0.006 CAL
Aroclor 1260 #1	5.465	1495406	0.006 CAL
Aroclor 1260 #2	5.880	1783959	0.006 CAL
Aroclor 1260 #3	6.022	973647	0.006 CAL
Aroclor 1260 #4	6.150	866530	0.006 CAL
Aroclor 1260 #5	7.030	711768	0.006 CAL
SURRDCBPCB	8.597	1728737	6.000 CAL
Aroclor 1016		4063683	0.030 CAL
Aroclor 1260		5831310	0.030 CAL

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\003.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
User: jjy
Sample ID: PCB ICAL 1 PP 3036
Acquired: 11/11/2010 4:58:08 PM
Printed: 11/15/2010 1:49:22 PM

JJY
11/15/10

Data Summary: {Data Description}



back detector Results

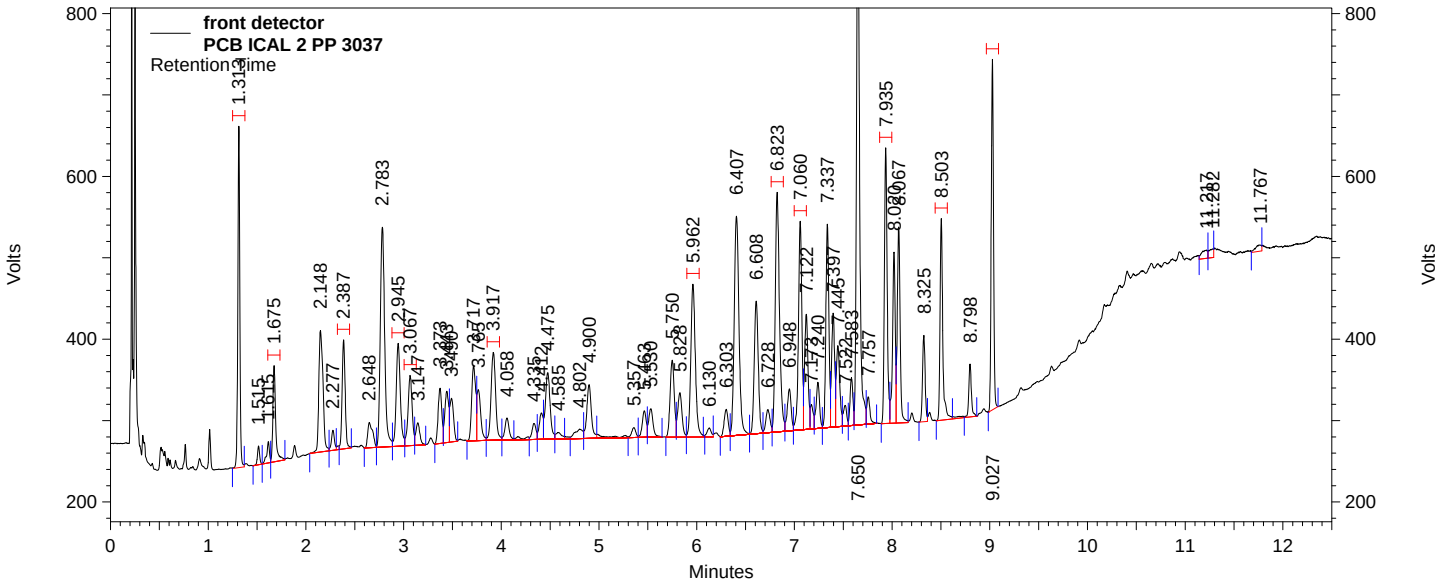
Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.007	1500033	6.000 CAL
Aroclor 1016 #1	1.450	514334	0.006 CAL
Aroclor 1016 #2	1.858	1063602	0.006 CAL
Aroclor 1016 #3	2.130	557648	0.006 CAL
Aroclor 1016 #4	2.608	1073011	0.006 CAL
Aroclor 1016 #5	2.760	855088	0.006 CAL
Aroclor 1260 #1	5.465	1495406	0.006 CAL
Aroclor 1260 #2	5.880	1783959	0.006 CAL
Aroclor 1260 #3	6.022	973647	0.006 CAL
Aroclor 1260 #4	6.150	866530	0.006 CAL
Aroclor 1260 #5	7.030	711768	0.006 CAL
SURRDCBPCB	8.597	1728737	6.000 CAL
Aroclor 1016		4063683	0.030 CAL
Aroclor 1260		5831310	0.030 CAL

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\004.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
User: jjy
Sample ID: PCB ICAL 2 PP 3037
Acquired: 11/11/2010 5:13:48 PM
Printed: 11/15/2010 1:49:31 PM

JJY
11/15/10

Data Summary: {Data Description}



back detector Results

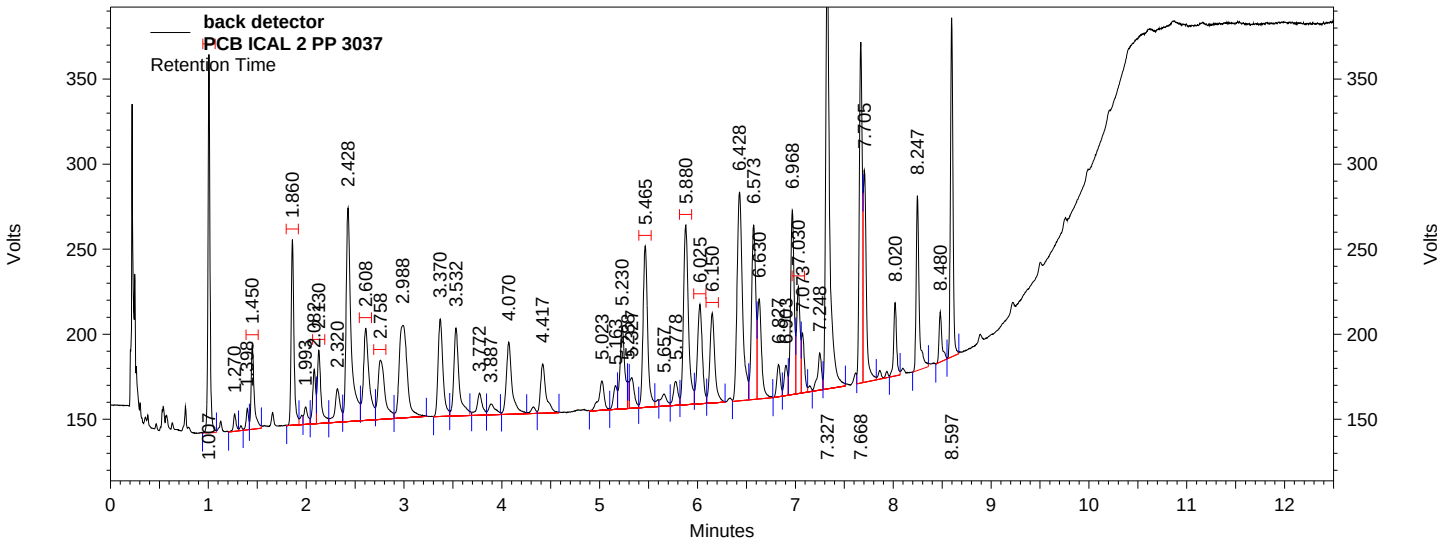
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.007	2401761	10.000 CAL
Aroclor 1016 #1	1.450	819548	0.010 CAL
Aroclor 1016 #2	1.860	1691735	0.010 CAL
Aroclor 1016 #3	2.130	856764	0.010 CAL
Aroclor 1016 #4	2.608	1703777	0.010 CAL
Aroclor 1016 #5	2.758	1322408	0.010 CAL
Aroclor 1260 #1	5.465	2365259	0.010 CAL
Aroclor 1260 #2	5.880	2832875	0.010 CAL
Aroclor 1260 #3	6.025	1569778	0.010 CAL
Aroclor 1260 #4	6.150	1402606	0.010 CAL
Aroclor 1260 #5	7.030	1194390	0.010 CAL
SURRDCBPCB	8.597	2735270	10.000 CAL
Aroclor 1016		6394232	0.050 CAL
Aroclor 1260		9364908	0.050 CAL

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\004.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
User: jjy
Sample ID: PCB ICAL 2 PP 3037
Acquired: 11/11/2010 5:13:48 PM
Printed: 11/15/2010 1:49:31 PM

JJY
11/15/10

Data Summary: {Data Description}



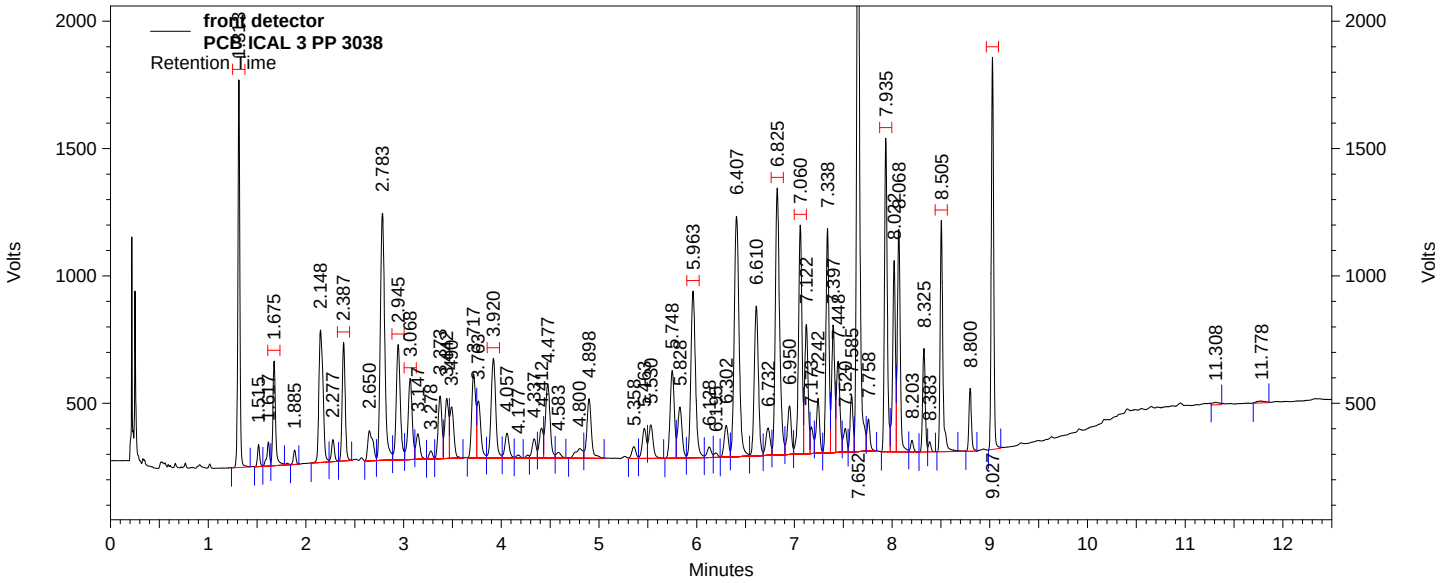
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.007	2401761	10.000 CAL
Aroclor 1016 #1	1.450	819548	0.010 CAL
Aroclor 1016 #2	1.860	1691735	0.010 CAL
Aroclor 1016 #3	2.130	856764	0.010 CAL
Aroclor 1016 #4	2.608	1703777	0.010 CAL
Aroclor 1016 #5	2.758	1322408	0.010 CAL
Aroclor 1260 #1	5.465	2365259	0.010 CAL
Aroclor 1260 #2	5.880	2832875	0.010 CAL
Aroclor 1260 #3	6.025	1569778	0.010 CAL
Aroclor 1260 #4	6.150	1402606	0.010 CAL
Aroclor 1260 #5	7.030	1194390	0.010 CAL
SURRDCBPCB	8.597	2735270	10.000 CAL
Aroclor 1016		6394232	0.050 CAL
Aroclor 1260		9364908	0.050 CAL

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\005.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
User: jjy
Sample ID: PCB ICAL 3 PP 3038 JJY
Acquired: 11/11/2010 5:29:27 PM 11/15/10
Printed: 11/15/2010 1:49:39 PM

Data Summary: {Data Description}



back detector Results

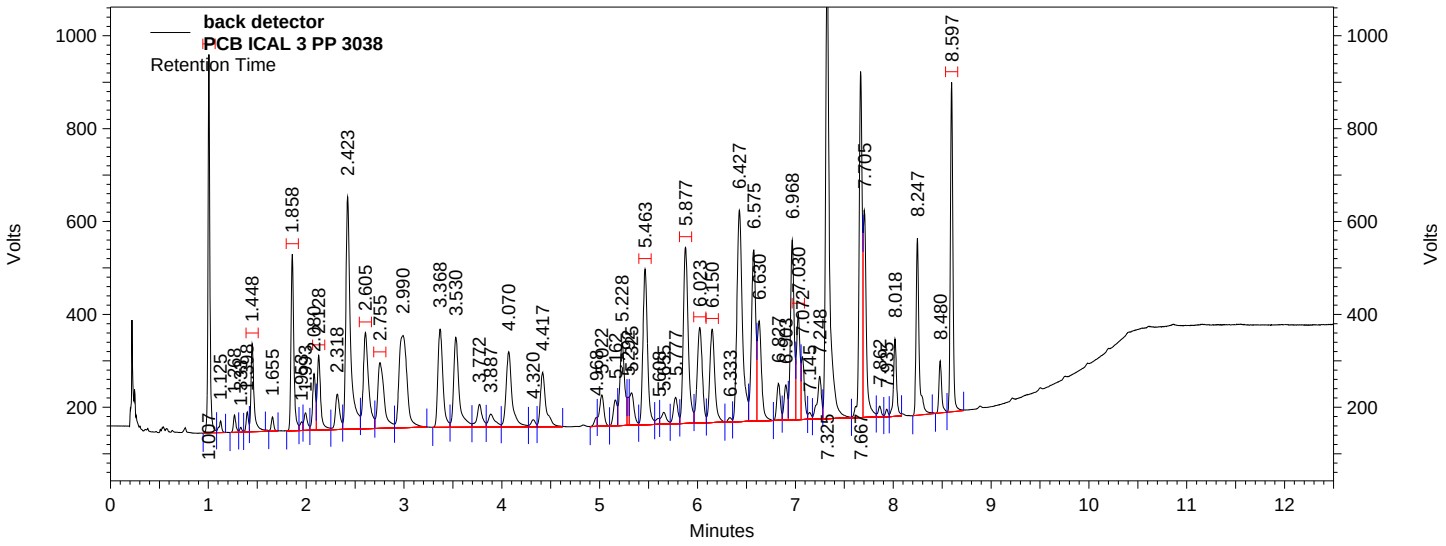
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.007	8319713	40.000 CAL
Aroclor 1016 #1	1.448	3111055	0.040 CAL
Aroclor 1016 #2	1.858	5922796	0.040 CAL
Aroclor 1016 #3	2.128	3026584	0.040 CAL
Aroclor 1016 #4	2.605	6046183	0.040 CAL
Aroclor 1016 #5	2.755	4973605	0.040 CAL
Aroclor 1260 #1	5.463	8389496	0.040 CAL
Aroclor 1260 #2	5.877	10156128	0.040 CAL
Aroclor 1260 #3	6.023	5758195	0.040 CAL
Aroclor 1260 #4	6.150	5443202	0.040 CAL
Aroclor 1260 #5	7.030	4425357	0.040 CAL
SURRDCBPCB	8.597	9930367	40.000 CAL
Aroclor 1016		23080223	0.200 CAL
Aroclor 1260		34172378	0.200 CAL

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\005.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
User: jjy
Sample ID: PCB ICAL 3 PP 3038
Acquired: 11/11/2010 5:29:27 PM
Printed: 11/15/2010 1:49:39 PM

JJY
11/15/10

Data Summary: {Data Description}



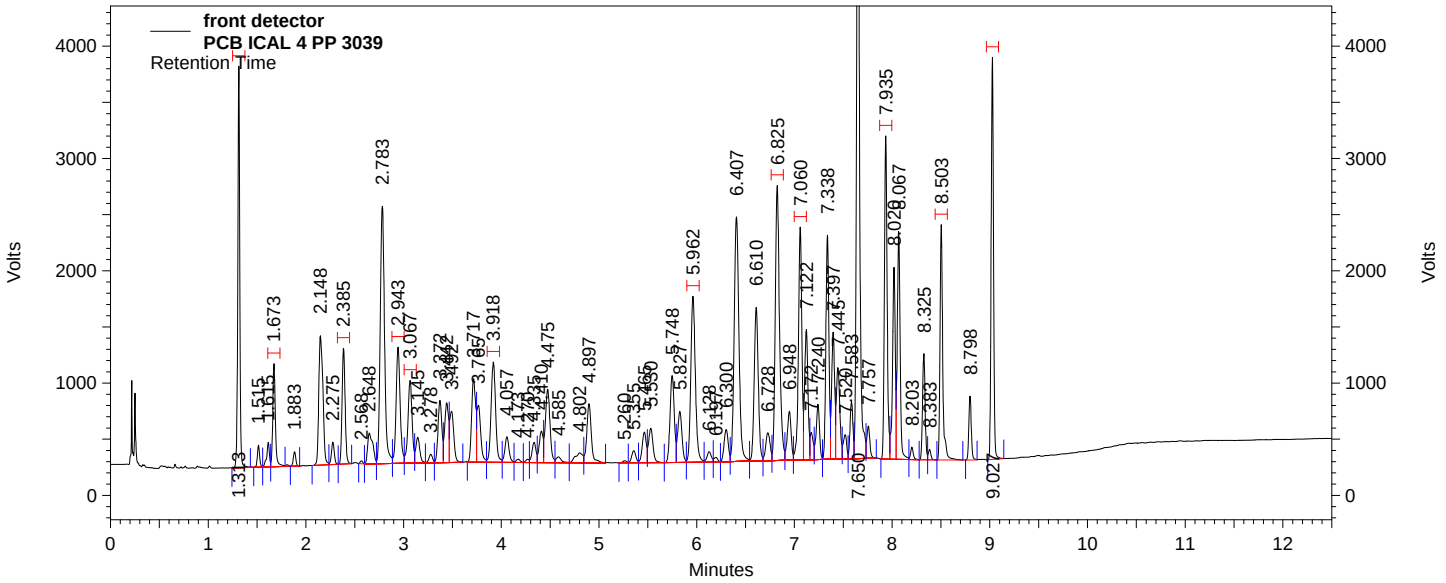
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.007	8319713	40.000 CAL
Aroclor 1016 #1	1.448	3111055	0.040 CAL
Aroclor 1016 #2	1.858	5922796	0.040 CAL
Aroclor 1016 #3	2.128	3026584	0.040 CAL
Aroclor 1016 #4	2.605	6046183	0.040 CAL
Aroclor 1016 #5	2.755	4973605	0.040 CAL
Aroclor 1260 #1	5.463	8389496	0.040 CAL
Aroclor 1260 #2	5.877	10156128	0.040 CAL
Aroclor 1260 #3	6.023	5758195	0.040 CAL
Aroclor 1260 #4	6.150	5443202	0.040 CAL
Aroclor 1260 #5	7.030	4425357	0.040 CAL
SURRDCBPCB	8.597	9930367	40.000 CAL
Aroclor 1016		23080223	0.200 CAL
Aroclor 1260		34172378	0.200 CAL

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\006.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
User: jjy
Sample ID: PCB ICAL 4 PP 3039 JJY
Acquired: 11/11/2010 5:45:06 PM 11/15/10
Printed: 11/15/2010 1:49:48 PM

Data Summary: {Data Description}



back detector Results

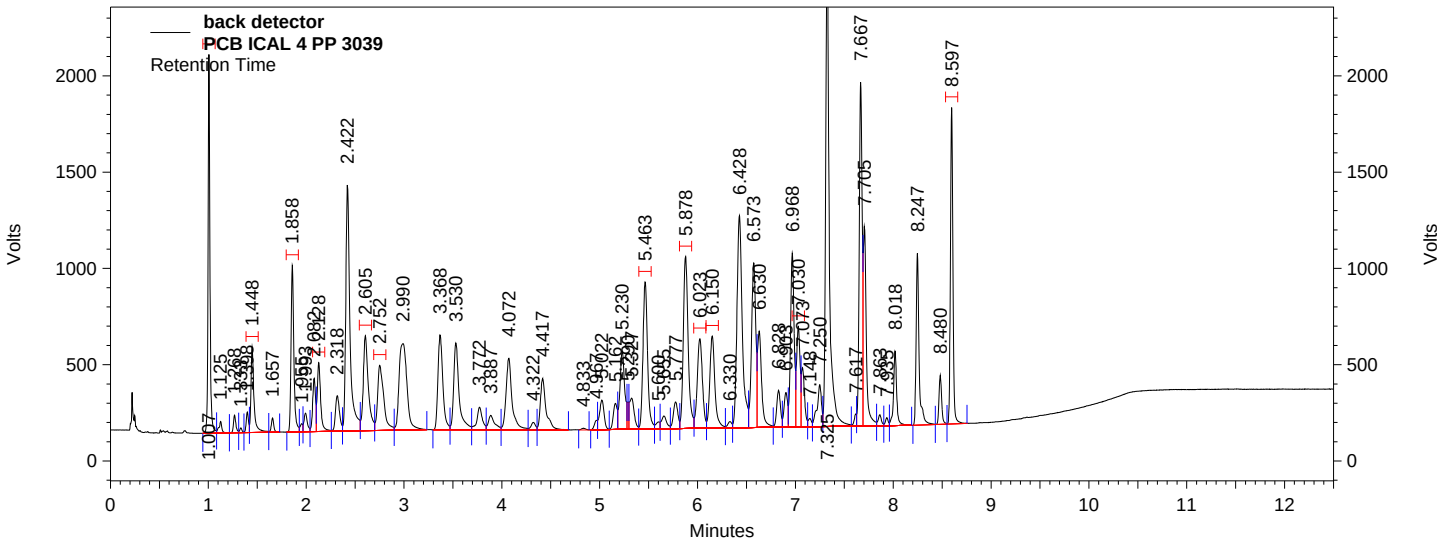
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.007	19905994	100.000 CAL
Aroclor 1016 #1	1.448	7172910	0.100 CAL
Aroclor 1016 #2	1.858	13396294	0.100 CAL
Aroclor 1016 #3	2.128	6700644	0.100 CAL
Aroclor 1016 #4	2.605	13626659	0.100 CAL
Aroclor 1016 #5	2.752	11271876	0.100 CAL
Aroclor 1260 #1	5.463	19146167	0.100 CAL
Aroclor 1260 #2	5.878	23567247	0.100 CAL
Aroclor 1260 #3	6.023	13218890	0.100 CAL
Aroclor 1260 #4	6.150	13177550	0.100 CAL
Aroclor 1260 #5	7.030	10098414	0.100 CAL
SURRDCBPCB	8.597	22617594	100.000 CAL
Aroclor 1016		52168383	0.500 CAL
Aroclor 1260		79208268	0.500 CAL

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\006.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
User: jjy
Sample ID: PCB ICAL 4 PP 3039
Acquired: 11/11/2010 5:45:06 PM
Printed: 11/15/2010 1:49:48 PM

JJY
11/15/10

Data Summary: {Data Description}



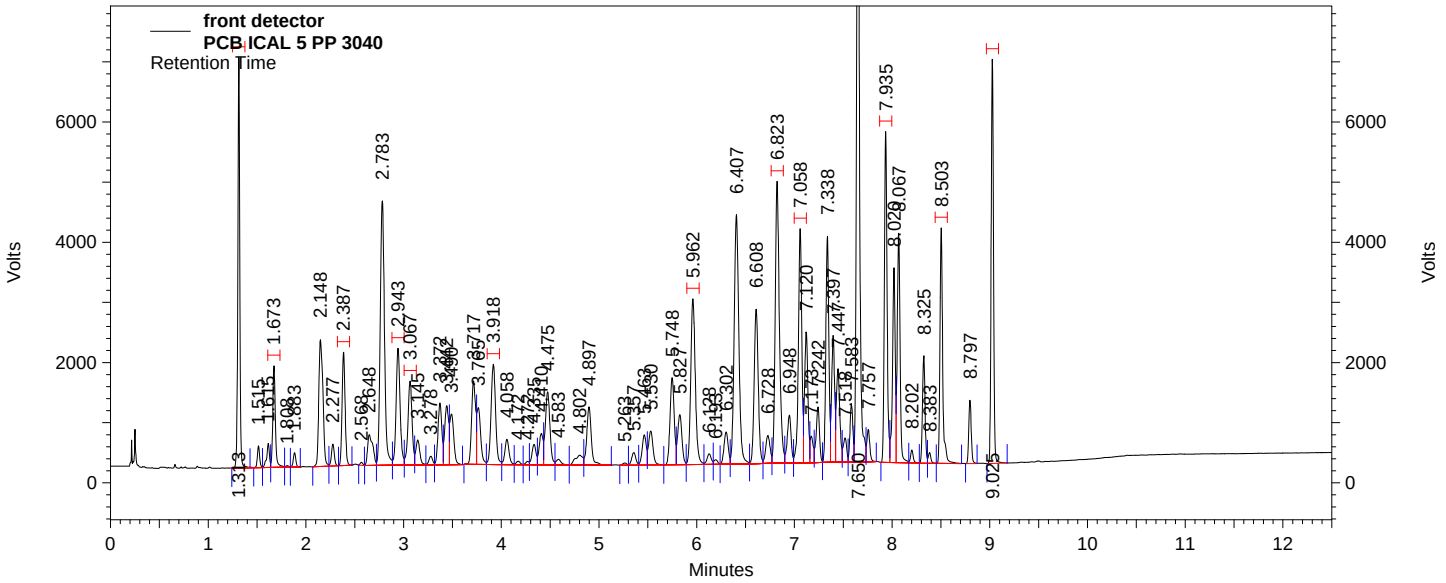
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.007	19905994	100.000 CAL
Aroclor 1016 #1	1.448	7172910	0.100 CAL
Aroclor 1016 #2	1.858	13396294	0.100 CAL
Aroclor 1016 #3	2.128	6700644	0.100 CAL
Aroclor 1016 #4	2.605	13626659	0.100 CAL
Aroclor 1016 #5	2.752	11271876	0.100 CAL
Aroclor 1260 #1	5.463	19146167	0.100 CAL
Aroclor 1260 #2	5.878	23567247	0.100 CAL
Aroclor 1260 #3	6.023	13218890	0.100 CAL
Aroclor 1260 #4	6.150	13177550	0.100 CAL
Aroclor 1260 #5	7.030	10098414	0.100 CAL
SURRDCBPCB	8.597	22617594	100.000 CAL
Aroclor 1016		52168383	0.500 CAL
Aroclor 1260		79208268	0.500 CAL

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\007.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
User: jjy
Sample ID: PCB ICAL 5 PP 3040
Acquired: 11/11/2010 6:00:45 PM JJY
Printed: 11/15/2010 1:49:57 PM 11/15/10

Data Summary: {Data Description}



back detector Results

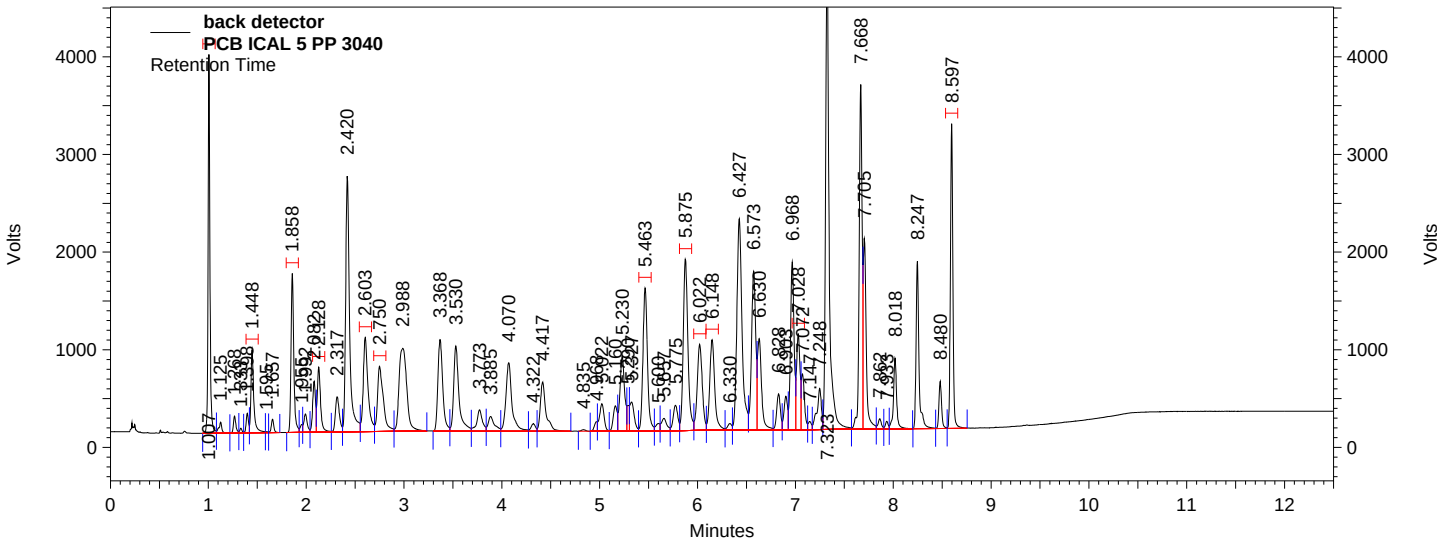
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.007	38574203	200.000 CAL
Aroclor 1016 #1	1.448	13084053	0.200 CAL
Aroclor 1016 #2	1.858	24757646	0.200 CAL
Aroclor 1016 #3	2.128	12167843	0.200 CAL
Aroclor 1016 #4	2.603	25138760	0.200 CAL
Aroclor 1016 #5	2.750	20965117	0.200 CAL
Aroclor 1260 #1	5.463	35898821	0.200 CAL
Aroclor 1260 #2	5.875	44537294	0.200 CAL
Aroclor 1260 #3	6.022	24443656	0.200 CAL
Aroclor 1260 #4	6.148	25128344	0.200 CAL
Aroclor 1260 #5	7.028	18811261	0.200 CAL
SURRDCBPCB	8.597	42408969	200.000 CAL
Aroclor 1016		96113419	1.000 CAL
Aroclor 1260		148819376	1.000 CAL

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\007.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
User: jjy
Sample ID: PCB ICAL 5 PP 3040
Acquired: 11/11/2010 6:00:45 PM
Printed: 11/15/2010 1:49:57 PM

JJY
11/15/10

Data Summary: {Data Description}



back detector Results

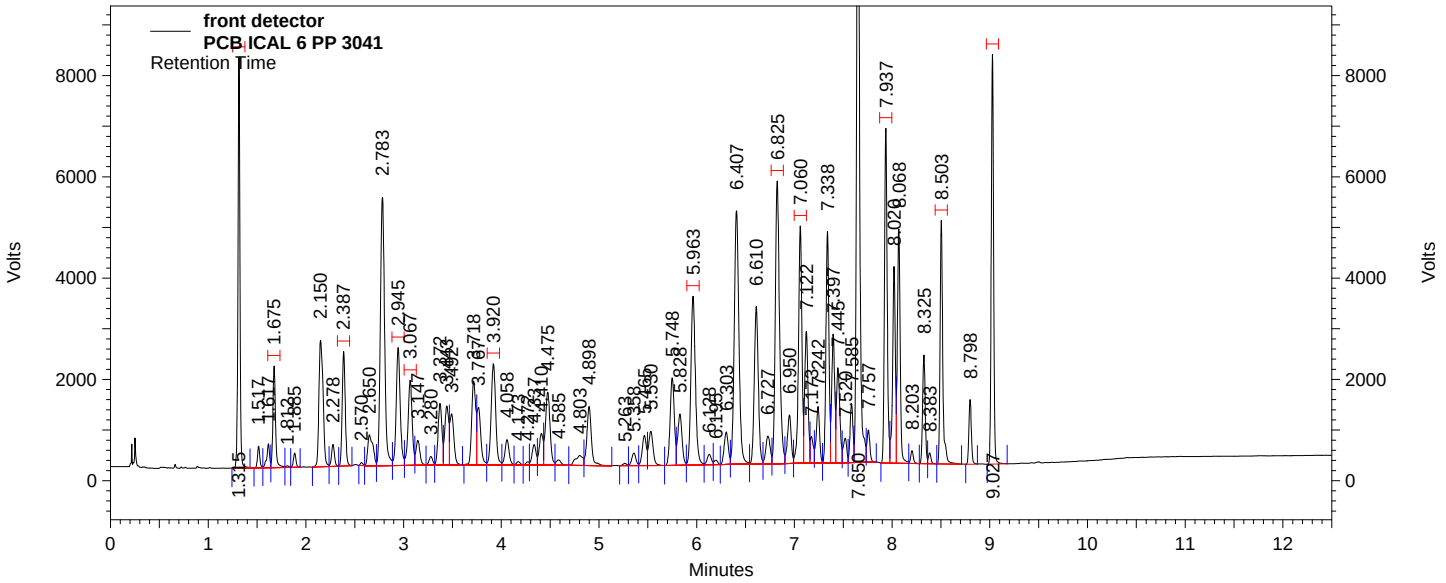
Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.007	38574203	200.000 CAL
Aroclor 1016 #1	1.448	13084053	0.200 CAL
Aroclor 1016 #2	1.858	24757646	0.200 CAL
Aroclor 1016 #3	2.128	12167843	0.200 CAL
Aroclor 1016 #4	2.603	25138760	0.200 CAL
Aroclor 1016 #5	2.750	20965117	0.200 CAL
Aroclor 1260 #1	5.463	35898821	0.200 CAL
Aroclor 1260 #2	5.875	44537294	0.200 CAL
Aroclor 1260 #3	6.022	24443656	0.200 CAL
Aroclor 1260 #4	6.148	25128344	0.200 CAL
Aroclor 1260 #5	7.028	18811261	0.200 CAL
SURRDCBPCB	8.597	42408969	200.000 CAL
Aroclor 1016		96113419	1.000 CAL
Aroclor 1260		148819376	1.000 CAL

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\008.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
User: jjy
Sample ID: PCB ICAL 6 PP 3041
Acquired: 11/11/2010 6:16:25 PM
Printed: 11/15/2010 1:50:05 PM

JJY
11/15/10

Data Summary: {Data Description}



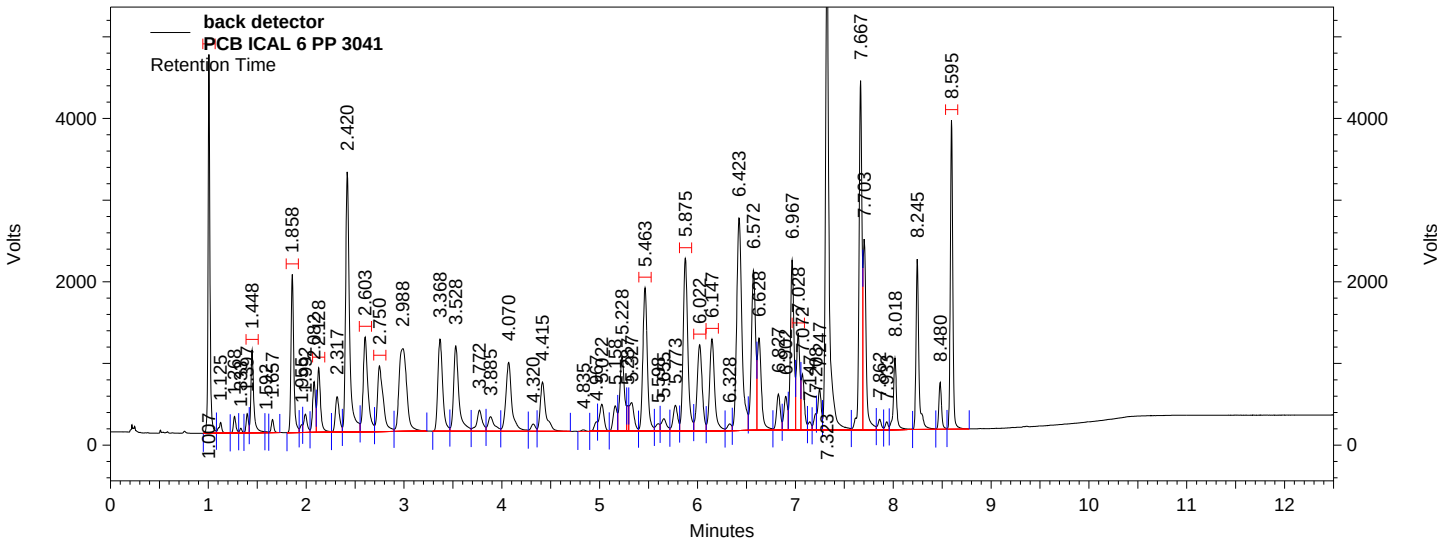
back detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.007	46739931	240.000 CAL
Aroclor 1016 #1	1.448	15656006	0.240 CAL
Aroclor 1016 #2	1.858	29586145	0.240 CAL
Aroclor 1016 #3	2.128	14373578	0.240 CAL
Aroclor 1016 #4	2.603	30087592	0.240 CAL
Aroclor 1016 #5	2.750	25041500	0.240 CAL
Aroclor 1260 #1	5.463	42949519	0.240 CAL
Aroclor 1260 #2	5.875	53262650	0.240 CAL
Aroclor 1260 #3	6.022	29088283	0.240 CAL
Aroclor 1260 #4	6.147	30288948	0.240 CAL
Aroclor 1260 #5	7.028	22549624	0.240 CAL
SURRDCBPCB	8.595	50973300	240.000 CAL
Aroclor 1016		114744821	1.200 CAL
Aroclor 1260		178139024	1.200 CAL

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\008.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
User: jjy
Sample ID: PCB ICAL 6 PP 3041 JJY
Acquired: 11/11/2010 6:16:25 PM 11/15/10
Printed: 11/15/2010 1:50:05 PM

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.007	46739931	240.000 CAL
Aroclor 1016 #1	1.448	15656006	0.240 CAL
Aroclor 1016 #2	1.858	29586145	0.240 CAL
Aroclor 1016 #3	2.128	14373578	0.240 CAL
Aroclor 1016 #4	2.603	30087592	0.240 CAL
Aroclor 1016 #5	2.750	25041500	0.240 CAL
Aroclor 1260 #1	5.463	42949519	0.240 CAL
Aroclor 1260 #2	5.875	53262650	0.240 CAL
Aroclor 1260 #3	6.022	29088283	0.240 CAL
Aroclor 1260 #4	6.147	30288948	0.240 CAL
Aroclor 1260 #5	7.028	22549624	0.240 CAL
SURRDCBPCB	8.595	50973300	240.000 CAL
Aroclor 1016		114744821	1.200 CAL
Aroclor 1260		178139024	1.200 CAL

QC Check Standard Report

Sequence : C:\Instarch\Semi7\Sequence\111110pcbic.seq
User : jjy
Printed : 11/15/2010 1:50:31 PM

File	Sample ID	Acquired
C:\Instarch\Semi7\Data\111110pcbic\010.dat	PCB ICV PP 3047	11/15/2010 1:50:31 PM

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPCB	100.000	91.056	8.944	20.000	Passed
Aroclor 1016 #1	0.100	0.101	1.113	20.000	Passed
Aroclor 1016 #2	0.100	0.102	2.173	20.000	Passed
Aroclor 1016 #3	0.100	0.101	1.270	20.000	Passed
Aroclor 1016 #4	0.100	0.101	0.899	20.000	Passed
Aroclor 1016 #5	0.100	0.101	0.890	20.000	Passed
Aroclor 1260 #1	0.100	0.100	0.360	20.000	Passed
Aroclor 1260 #2	0.100	0.099	0.919	20.000	Passed
Aroclor 1260 #3	0.100	0.100	0.483	20.000	Passed
Aroclor 1260 #4	0.100	0.099	1.224	20.000	Passed
Aroclor 1260 #5	0.100	0.100	0.047	20.000	Passed
SURRDCBPCB	100.000	92.873	7.127	20.000	Passed
Aroclor 1016	0.500	0.506	1.269	20.000	Passed
Aroclor 1260	0.500	0.498	0.462	20.000	Passed

back detector

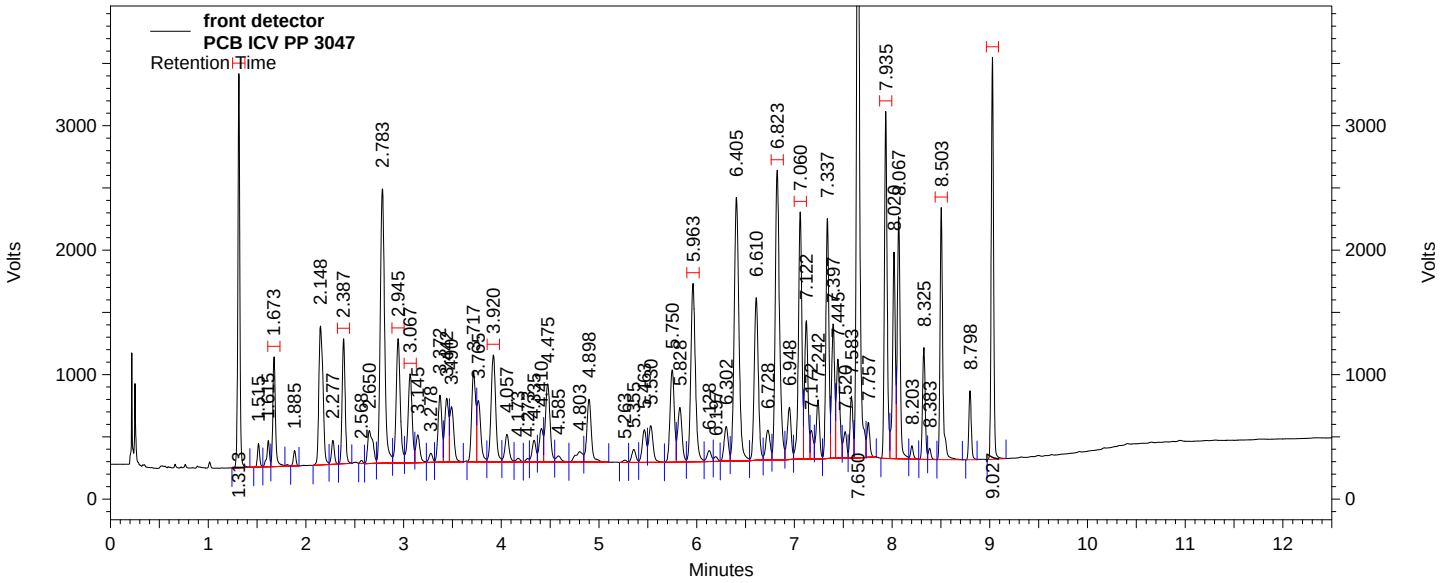
Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPCB	100.000	89.775	10.225	20.000	Passed
Aroclor 1016 #1	0.100	0.103	2.794	20.000	Passed
Aroclor 1016 #2	0.100	0.101	1.187	20.000	Passed
Aroclor 1016 #3	0.100	0.104	3.979	20.000	Passed
Aroclor 1016 #4	0.100	0.102	1.577	20.000	Passed
Aroclor 1016 #5	0.100	0.102	1.613	20.000	Passed
Aroclor 1260 #1	0.100	0.101	0.520	20.000	Passed
Aroclor 1260 #2	0.100	0.100	0.334	20.000	Passed
Aroclor 1260 #3	0.100	0.102	1.910	20.000	Passed
Aroclor 1260 #4	0.100	0.100	0.159	20.000	Passed
Aroclor 1260 #5	0.100	0.101	1.054	20.000	Passed
SURRDCBPCB	100.000	92.877	7.123	20.000	Passed
Aroclor 1016	0.500	0.511	2.230	20.000	Passed
Aroclor 1260	0.500	0.503	0.598	20.000	Passed

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\010.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
User: jjy
Sample ID: PCB ICV PP 3047
Acquired: 11/11/2010 6:47:45 PM
Printed: 11/15/2010 1:50:23 PM

JJY
11/15/10

Data Summary: {Data Description}



back detector Results

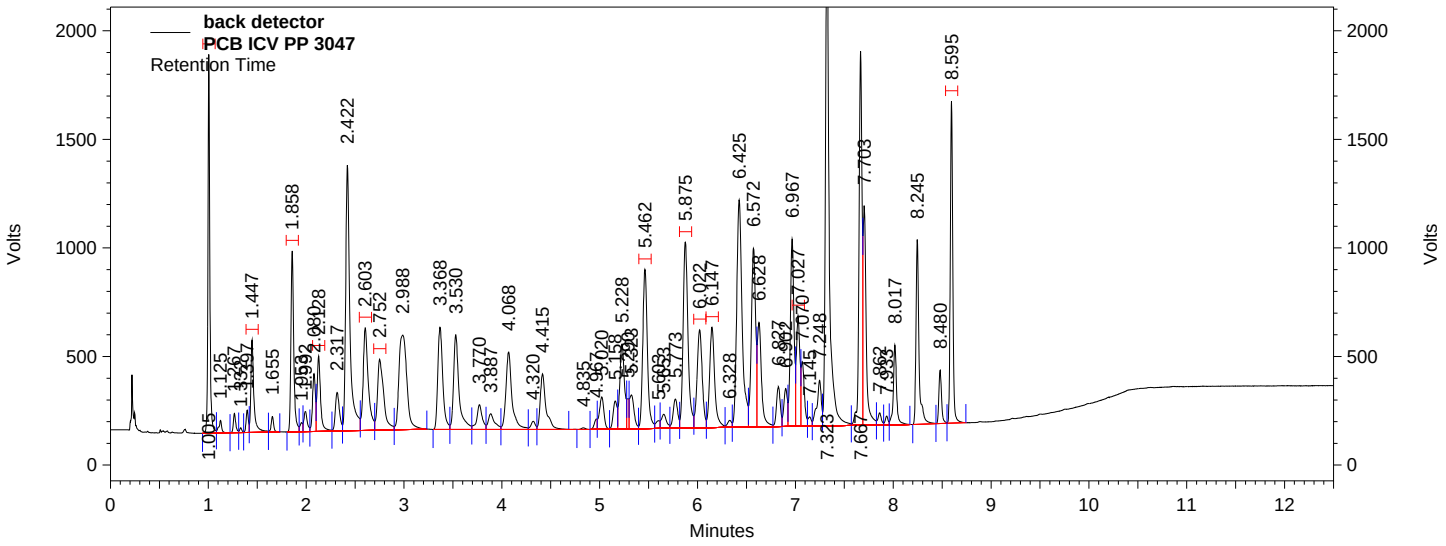
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.005	17738879	89.775
Aroclor 1016 #1	1.447	6948493	0.103
Aroclor 1016 #2	1.858	12960492	0.101
Aroclor 1016 #3	2.128	6553257	0.104
Aroclor 1016 #4	2.603	13221687	0.102
Aroclor 1016 #5	2.752	10972326	0.102
Aroclor 1260 #1	5.462	18582837	0.101
Aroclor 1260 #2	5.875	22762872	0.100
Aroclor 1260 #3	6.022	12816579	0.102
Aroclor 1260 #4	6.147	12781414	0.100
Aroclor 1260 #5	7.027	9790938	0.101
SURRDCBPCB	8.595	20385432	92.877
Aroclor 1016		50656255	0.511
Aroclor 1260		76734640	0.503

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\010.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
User: jjy
Sample ID: PCB ICV PP 3047
Acquired: 11/11/2010 6:47:45 PM
Printed: 11/15/2010 1:50:23 PM

JJY
11/15/10

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.005	17738879	89.775
Aroclor 1016 #1	1.447	6948493	0.103
Aroclor 1016 #2	1.858	12960492	0.101
Aroclor 1016 #3	2.128	6553257	0.104
Aroclor 1016 #4	2.603	13221687	0.102
Aroclor 1016 #5	2.752	10972326	0.102
Aroclor 1260 #1	5.462	18582837	0.101
Aroclor 1260 #2	5.875	22762872	0.100
Aroclor 1260 #3	6.022	12816579	0.102
Aroclor 1260 #4	6.147	12781414	0.100
Aroclor 1260 #5	7.027	9790938	0.101
SURRDCBPCB	8.595	20385432	92.877
Aroclor 1016		50656255	0.511
Aroclor 1260		76734640	0.503

POLYCHLORINATED BIPHENYL CONTINUING AND ENDING STANDARDS DOCUMENTS

QC Check Standard Report

Sequence : C:\Instarch\Semi7\Sequence\112410pcb.seq
User : jjy
Printed : Nov 24,2010 17:06:07

File	Sample ID	Acquired
C:\Instarch\Semi7\Data\112410pcb\003.dat	PCB CCV PP 3039	Nov 24,2010 17:06:07

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPCB	100.000	107.220	7.220	20.000	Passed
Aroclor 1016 #1	0.100	0.111	11.200	20.000	Passed
Aroclor 1016 #2	0.100	0.097	2.762	20.000	Passed
Aroclor 1016 #3	0.100	0.110	9.707	20.000	Passed
Aroclor 1016 #4	0.100	0.110	9.991	20.000	Passed
Aroclor 1016 #5	0.100	0.110	9.948	20.000	Passed
Aroclor 1260 #1	0.100	0.108	7.976	20.000	Passed
Aroclor 1260 #2	0.100	0.109	9.391	20.000	Passed
Aroclor 1260 #3	0.100	0.107	6.657	20.000	Passed
Aroclor 1260 #4	0.100	0.109	9.266	20.000	Passed
Aroclor 1260 #5	0.100	0.099	1.206	20.000	Passed
SURRDCBPCB	100.000	105.843	5.843	20.000	Passed
Aroclor 1016	0.500	0.538	7.617	20.000	Passed
Aroclor 1260	0.500	0.532	6.417	20.000	Passed

back detector

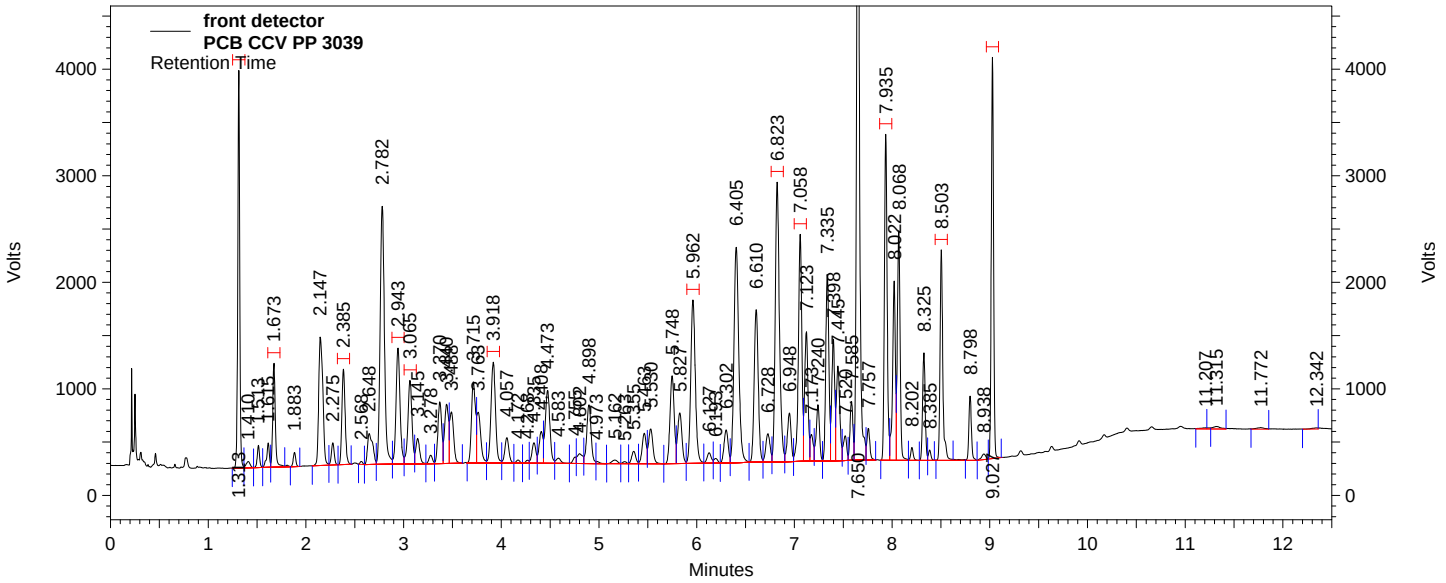
Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPCB	100.000	105.534	5.534	20.000	Passed
Aroclor 1016 #1	0.100	0.112	12.369	20.000	Passed
Aroclor 1016 #2	0.100	0.110	9.844	20.000	Passed
Aroclor 1016 #3	0.100	0.110	9.746	20.000	Passed
Aroclor 1016 #4	0.100	0.109	8.882	20.000	Passed
Aroclor 1016 #5	0.100	0.109	8.649	20.000	Passed
Aroclor 1260 #1	0.100	0.106	6.276	20.000	Passed
Aroclor 1260 #2	0.100	0.108	7.581	20.000	Passed
Aroclor 1260 #3	0.100	0.106	6.454	20.000	Passed
Aroclor 1260 #4	0.100	0.104	3.718	20.000	Passed
Aroclor 1260 #5	0.100	0.105	5.026	20.000	Passed
SURRDCBPCB	100.000	102.478	2.478	20.000	Passed
Aroclor 1016	0.500	0.549	9.898	20.000	Passed
Aroclor 1260	0.500	0.529	5.811	20.000	Passed

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\112410pcb\003.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\112410pcb.met
User: jjy
Sample ID: PCB CCV PP 3039
Acquired: Nov 24,2010 11:01:38
Printed: Nov 24,2010 17:05:58

JJY
11/24/10

Data Summary: {Data Description}



front detector Results

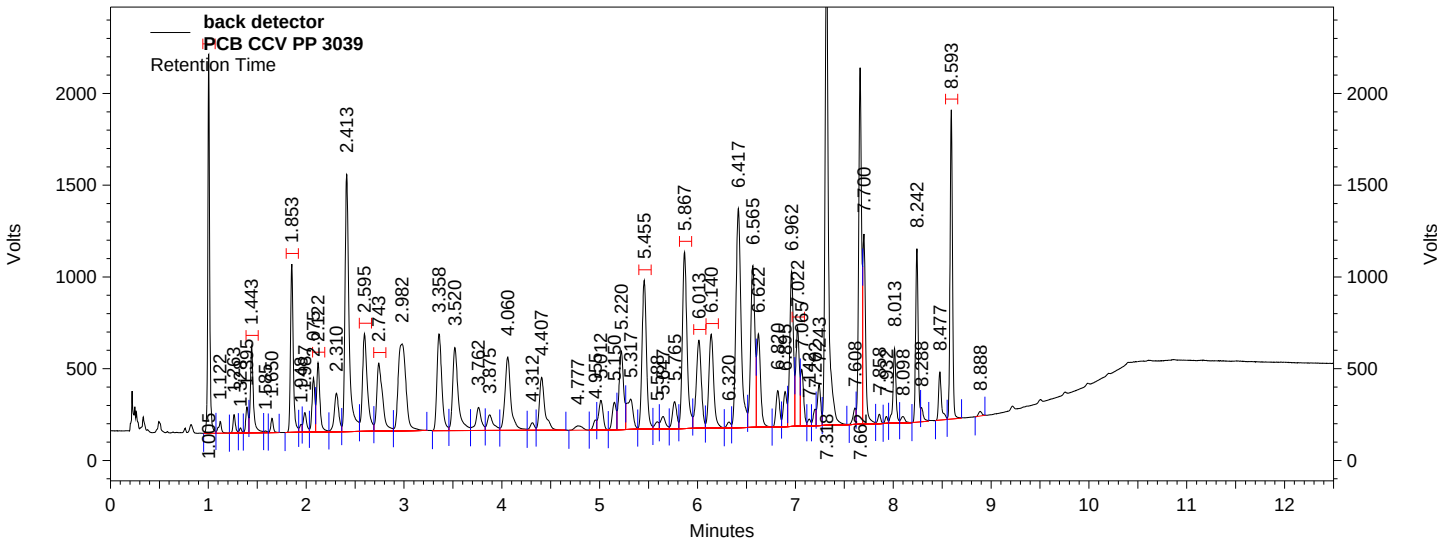
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.313	39941185	107.220
Aroclor 1016 #1	1.673	13663158	0.111
Aroclor 1016 #2	2.385	15988445	0.097
Aroclor 1016 #3	2.943	24280492	0.110
Aroclor 1016 #4	3.065	17477090	0.110
Aroclor 1016 #5	3.918	23132344	0.110
Aroclor 1260 #1	5.962	38226365	0.108
Aroclor 1260 #2	6.823	59572856	0.109
Aroclor 1260 #3	7.058	40220015	0.107
Aroclor 1260 #4	7.935	46006576	0.109
Aroclor 1260 #5	8.503	29465453	0.099
SURRDCBPCB	9.027	47144626	105.843
Aroclor 1016		94541529	0.538
Aroclor 1260		213491265	0.532

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\112410pcb\003.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\112410pcb.met
User: jjy
Sample ID: PCB CCV PP 3039
Acquired: Nov 24,2010 11:01:38
Printed: Nov 24,2010 17:05:58

JJY
11/24/10

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.005	20763785	105.534
Aroclor 1016 #1	1.443	7563168	0.112
Aroclor 1016 #2	1.853	14007158	0.110
Aroclor 1016 #3	2.122	6891812	0.110
Aroclor 1016 #4	2.595	14119422	0.109
Aroclor 1016 #5	2.743	11694806	0.109
Aroclor 1260 #1	5.455	19595466	0.106
Aroclor 1260 #2	5.867	24494533	0.108
Aroclor 1260 #3	6.013	13359363	0.106
Aroclor 1260 #4	6.140	13266212	0.104
Aroclor 1260 #5	7.022	10158312	0.105
SURRDCBPCB	8.593	22388538	102.478
Aroclor 1016		54276366	0.549
Aroclor 1260		80873886	0.529

QC Check Standard Report

Sequence : C:\Instarch\Semi7\Sequence\112410pcb.seq
User : jjy
Printed : Nov 24,2010 17:08:23

File	Sample ID	Acquired
C:\Instarch\Semi7\Data\112410pcb\017.dat	PCB CCV PP 3039	Nov 24,2010 17:08:23

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPCB	100.000	108.961	8.961	20.000	Passed
Aroclor 1016 #1	0.100	0.111	10.576	20.000	Passed
Aroclor 1016 #2	0.100	0.111	10.581	20.000	Passed
Aroclor 1016 #3	0.100	0.111	10.553	20.000	Passed
Aroclor 1016 #4	0.100	0.109	9.232	20.000	Passed
Aroclor 1016 #5	0.100	0.110	9.982	20.000	Passed
Aroclor 1260 #1	0.100	0.110	9.835	20.000	Passed
Aroclor 1260 #2	0.100	0.109	9.033	20.000	Passed
Aroclor 1260 #3	0.100	0.109	9.264	20.000	Passed
Aroclor 1260 #4	0.100	0.110	9.674	20.000	Passed
Aroclor 1260 #5	0.100	0.108	7.934	20.000	Passed
SURRDCBPCB	100.000	107.507	7.507	20.000	Passed
Aroclor 1016	0.500	0.551	10.185	20.000	Passed
Aroclor 1260	0.500	0.546	9.148	20.000	Passed

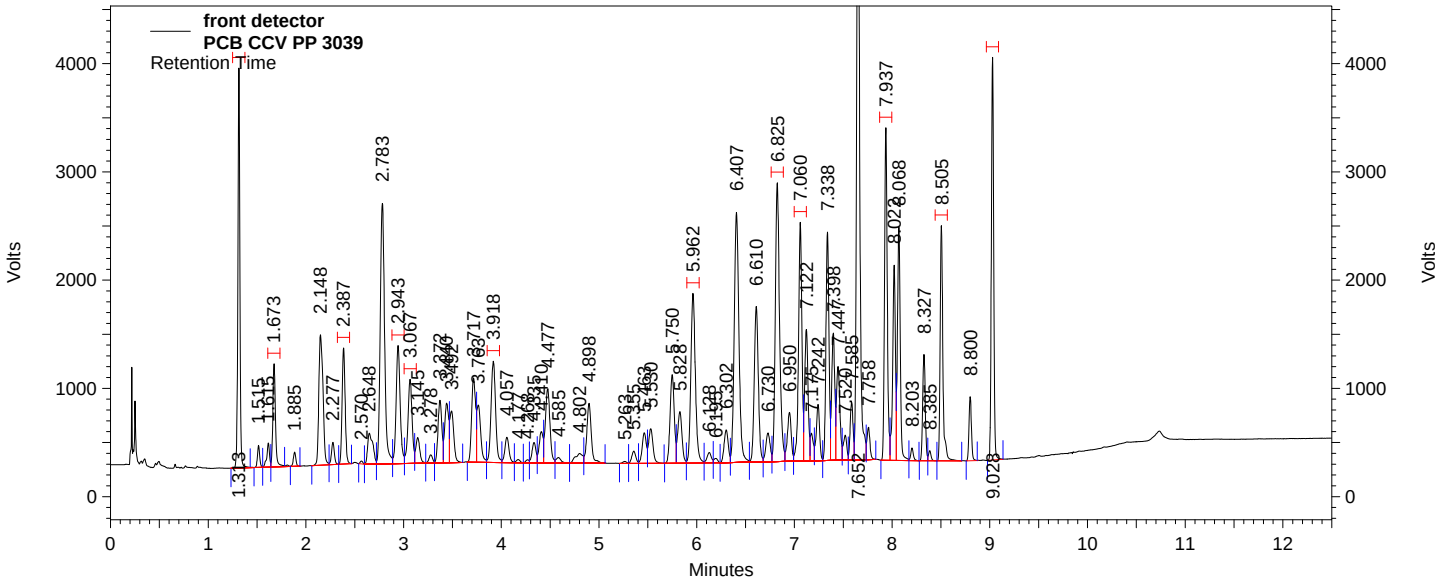
back detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPCB	100.000	105.699	5.699	20.000	Passed
Aroclor 1016 #1	0.100	0.111	11.390	20.000	Passed
Aroclor 1016 #2	0.100	0.109	9.300	20.000	Passed
Aroclor 1016 #3	0.100	0.111	11.186	20.000	Passed
Aroclor 1016 #4	0.100	0.110	10.209	20.000	Passed
Aroclor 1016 #5	0.100	0.110	9.652	20.000	Passed
Aroclor 1260 #1	0.100	0.108	7.640	20.000	Passed
Aroclor 1260 #2	0.100	0.107	7.055	20.000	Passed
Aroclor 1260 #3	0.100	0.109	8.909	20.000	Passed
Aroclor 1260 #4	0.100	0.107	7.200	20.000	Passed
Aroclor 1260 #5	0.100	0.109	8.610	20.000	Passed
SURRDCBPCB	100.000	108.048	8.048	20.000	Passed
Aroclor 1016	0.500	0.552	10.348	20.000	Passed
Aroclor 1260	0.500	0.539	7.883	20.000	Passed

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\112410pcb\017.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\112410pcb.met
User: jjy
Sample ID: PCB CCV PP 3039 JJY
Acquired: Nov 24,2010 16:16:11 11/24/10
Printed: Nov 24,2010 17:08:15

Data Summary: {Data Description}



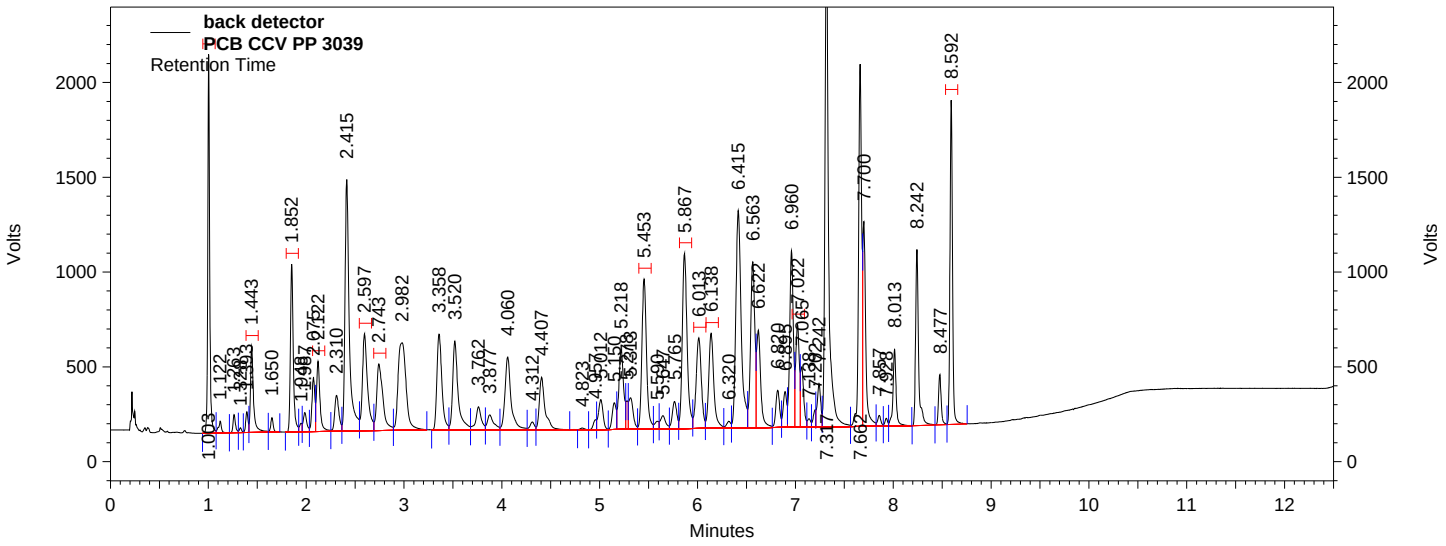
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.313	40567126	108.961
Aroclor 1016 #1	1.673	13591840	0.111
Aroclor 1016 #2	2.387	18035541	0.111
Aroclor 1016 #3	2.943	24458090	0.111
Aroclor 1016 #4	3.067	17361269	0.109
Aroclor 1016 #5	3.918	23139264	0.110
Aroclor 1260 #1	5.962	38850204	0.110
Aroclor 1260 #2	6.825	59385297	0.109
Aroclor 1260 #3	7.060	41159313	0.109
Aroclor 1260 #4	7.937	46172183	0.110
Aroclor 1260 #5	8.505	32070856	0.108
SURRDCBPCB	9.028	47856976	107.507
Aroclor 1016		96586004	0.551
Aroclor 1260		217637853	0.546

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\112410pcb\017.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\112410pcb.met
User: jjy
Sample ID: PCB CCV PP 3039 JJY 11/24/10
Acquired: Nov 24,2010 16:16:11
Printed: Nov 24,2010 17:08:15

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.003	20795399	105.699
Aroclor 1016 #1	1.443	7500334	0.111
Aroclor 1016 #2	1.852	13941309	0.109
Aroclor 1016 #3	2.122	6976352	0.111
Aroclor 1016 #4	2.597	14282565	0.110
Aroclor 1016 #5	2.743	11797778	0.110
Aroclor 1260 #1	5.453	19835490	0.108
Aroclor 1260 #2	5.867	24379525	0.107
Aroclor 1260 #3	6.013	13652559	0.109
Aroclor 1260 #4	6.138	13701763	0.107
Aroclor 1260 #5	7.022	10489747	0.109
SURRDCBPCB	8.592	23550627	108.048
Aroclor 1016		54498338	0.552
Aroclor 1260		82059084	0.539

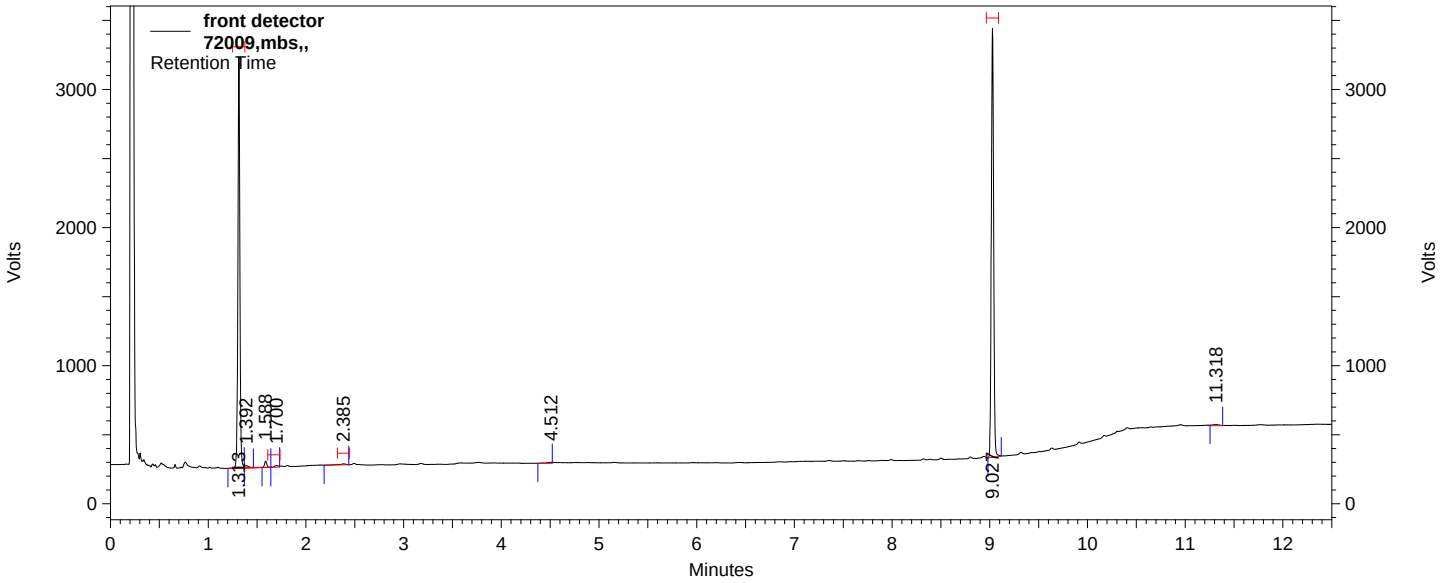
POLYCHLORINATED BIPHENYL QUALITY CONTROL DOCUMENTS

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\112410pcb\005.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\112410pcb.met
User: jjy
Sample ID: 72009,mbs,,
Acquired: Nov 24,2010 11:32:58
Printed: Nov 24,2010 17:06:23

JJY
11/24/10

Data Summary: {Data Description}



front detector Results

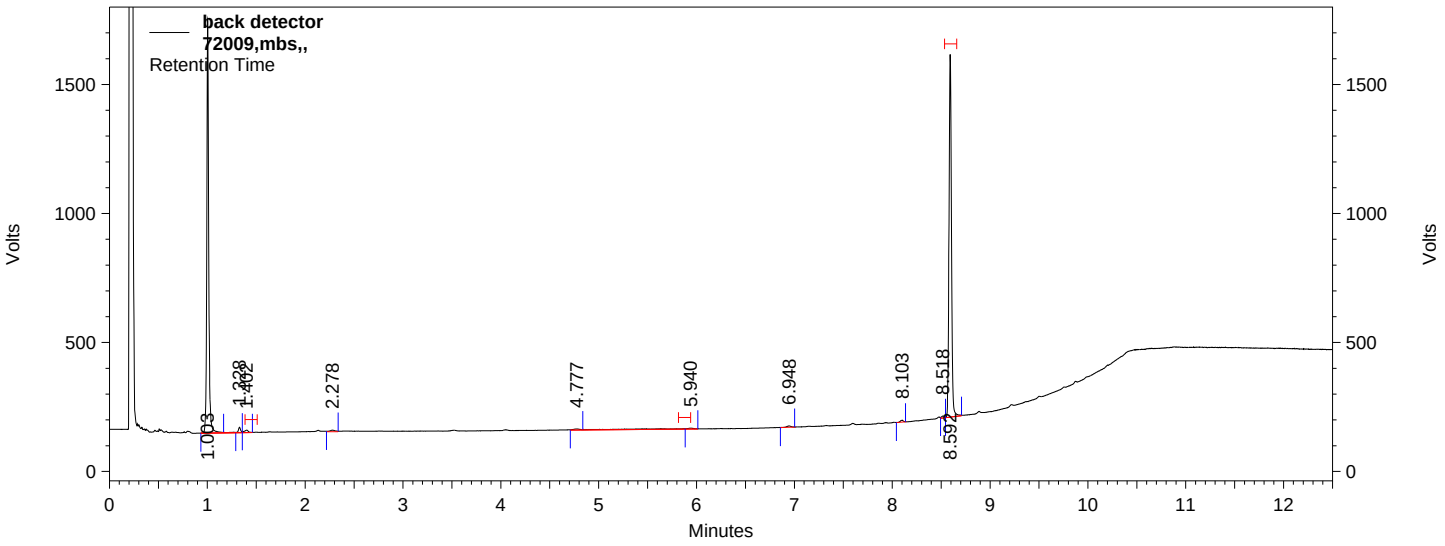
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.313	32116511	85.447
Aroclor 1016 #1	1.700	253495	0.000
Aroclor 1016 #2	2.385	289235	0.000
Aroclor 1016 #3			0.000 BDL
Aroclor 1016 #4			0.000 BDL
Aroclor 1016 #5			0.000 BDL
Aroclor 1260 #1			0.000 BDL
Aroclor 1260 #2			0.000 BDL
Aroclor 1260 #3			0.000 BDL
Aroclor 1260 #4			0.000 BDL
Aroclor 1260 #5			0.000 BDL
SURRDCBPCB	9.027	39912959	88.954
Aroclor 1016		542730	0.000
Aroclor 1260		0	0.000

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\112410pcb\005.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\112410pcb.met
User: jjy
Sample ID: 72009,mbs,,
Acquired: Nov 24,2010 11:32:58
Printed: Nov 24,2010 17:06:23

JJY
11/24/10

Data Summary: {Data Description}



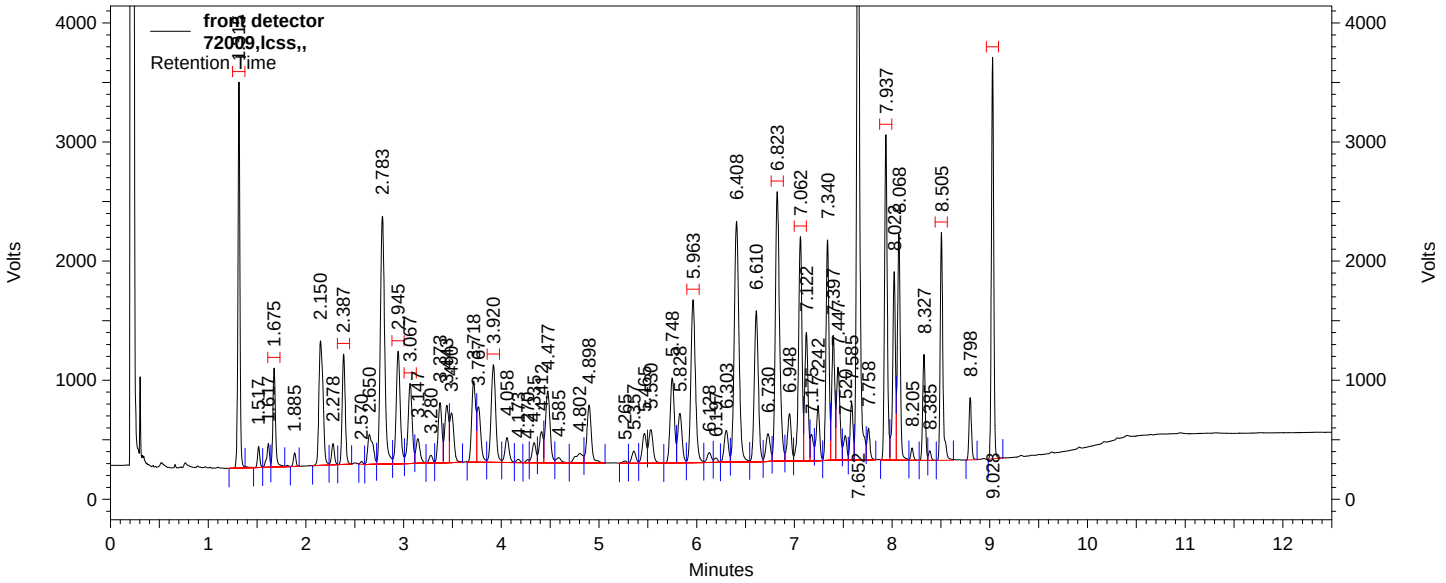
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.003	16779233	84.775
Aroclor 1016 #1	1.402	208646	0.000
Aroclor 1016 #2			0.000 BDL
Aroclor 1016 #3			0.000 BDL
Aroclor 1016 #4			0.000 BDL
Aroclor 1016 #5			0.000 BDL
Aroclor 1260 #1			0.000 BDL
Aroclor 1260 #2	5.940	131139	0.000
Aroclor 1260 #3			0.000 BDL
Aroclor 1260 #4			0.000 BDL
Aroclor 1260 #5			0.000 BDL
SURRDCBPCB	8.592	18951010	86.002
Aroclor 1016		208646	0.000
Aroclor 1260		131139	0.000

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\112410pcb\006.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\112410pcb.met
User: jjy
Sample ID: 72009,lcss,,
Acquired: Nov 24,2010 11:48:38 JJY
Printed: Nov 24,2010 17:06:32 11/24/10

Data Summary: {Data Description}



front detector Results

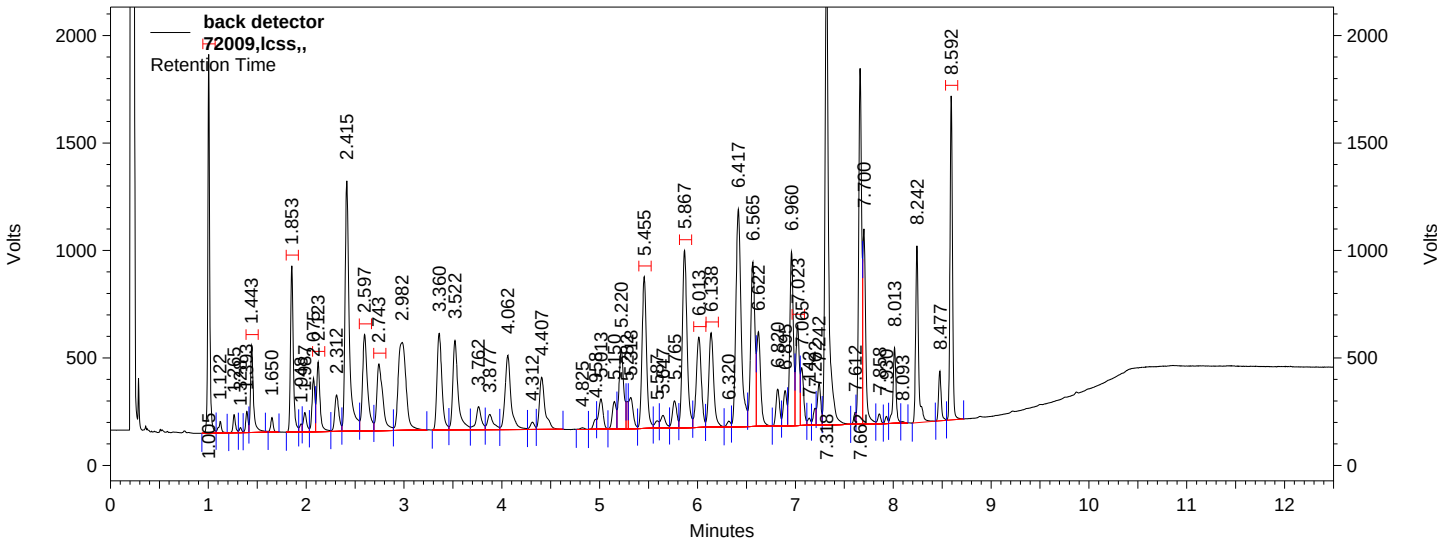
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.315	34958921	93.356
Aroclor 1016 #1	1.675	11711257	0.094
Aroclor 1016 #2	2.387	15593075	0.095
Aroclor 1016 #3	2.945	21071886	0.094
Aroclor 1016 #4	3.067	15020885	0.094
Aroclor 1016 #5	3.920	20086597	0.095
Aroclor 1260 #1	5.963	33859948	0.095
Aroclor 1260 #2	6.823	52036990	0.095
Aroclor 1260 #3	7.062	36044390	0.095
Aroclor 1260 #4	7.937	40641997	0.096
Aroclor 1260 #5	8.505	27752692	0.093
SURRDCBPCB	9.028	42928425	95.996
Aroclor 1016		83483700	0.472
Aroclor 1260		190336017	0.474

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\112410pcb\006.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\112410pcb.met
User: jjy
Sample ID: 72009,lcss,,
Acquired: Nov 24,2010 11:48:38
Printed: Nov 24,2010 17:06:32

JJY
11/24/10

Data Summary: {Data Description}



back detector Results

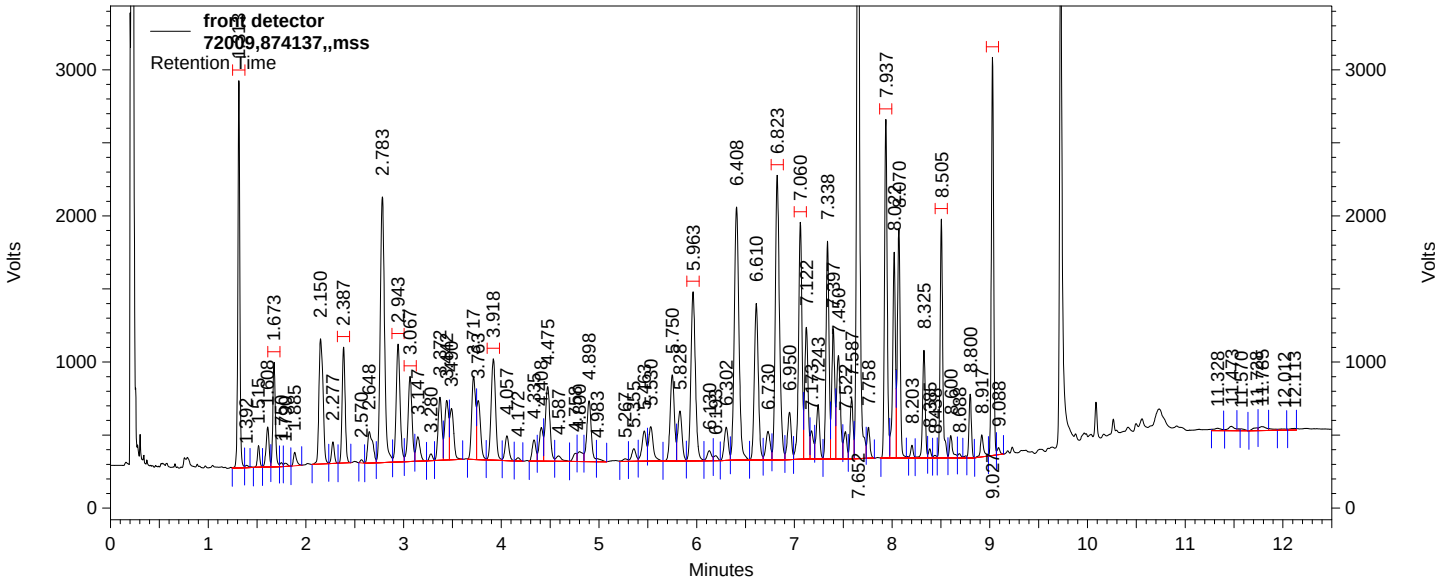
Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.005	17951692	90.884
Aroclor 1016 #1	1.443	6447686	0.095
Aroclor 1016 #2	1.853	11993468	0.093
Aroclor 1016 #3	2.123	6023030	0.095
Aroclor 1016 #4	2.597	12252335	0.094
Aroclor 1016 #5	2.743	10134043	0.093
Aroclor 1260 #1	5.455	17134083	0.092
Aroclor 1260 #2	5.867	21154720	0.092
Aroclor 1260 #3	6.013	11649170	0.092
Aroclor 1260 #4	6.138	11529700	0.090
Aroclor 1260 #5	7.023	8752052	0.090
SURRDCBPCB	8.592	20343500	92.676
Aroclor 1016		46850562	0.470
Aroclor 1260		70219725	0.456

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\112410pcb\009.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\112410pcb.met
User: jjy
Sample ID: 72009,874137,,mss
Acquired: Nov 24,2010 14:10:43
Printed: Nov 24,2010 17:06:58

JJY
11/24/10

Data Summary: {Data Description}



front detector Results

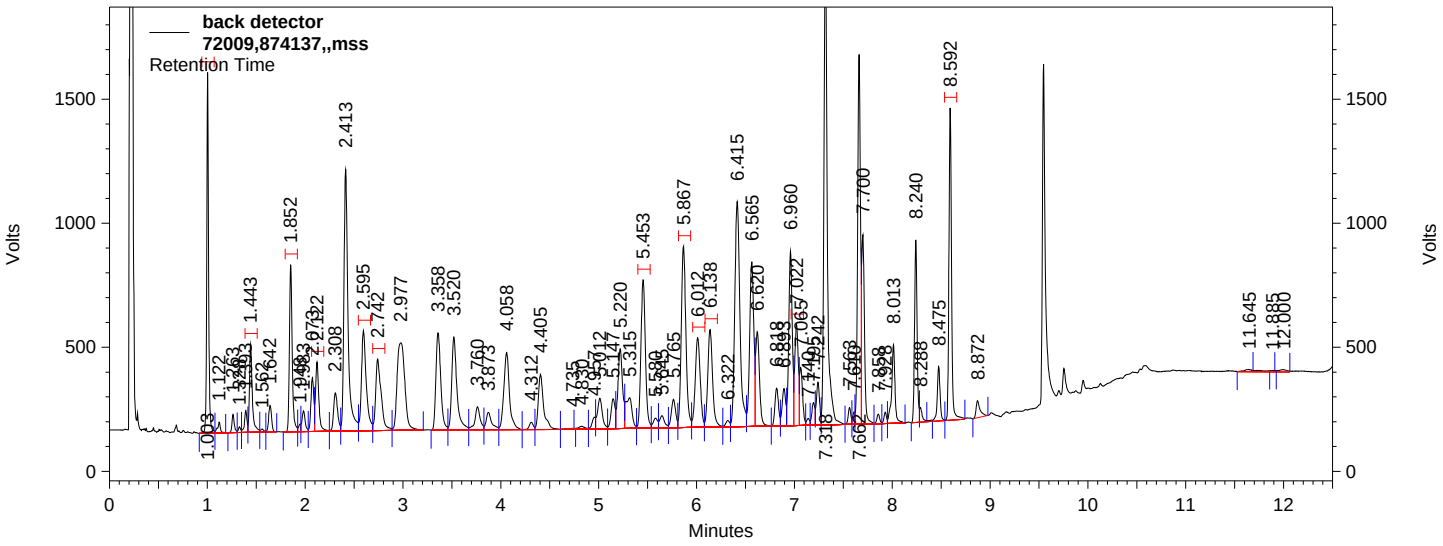
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.313	28588643	75.631
Aroclor 1016 #1	1.673	9660831	0.076
Aroclor 1016 #2	2.387	13221758	0.079
Aroclor 1016 #3	2.943	17366063	0.077
Aroclor 1016 #4	3.067	12501152	0.077
Aroclor 1016 #5	3.918	16614388	0.077
Aroclor 1260 #1	5.963	28279242	0.078
Aroclor 1260 #2	6.823	44120286	0.080
Aroclor 1260 #3	7.060	30606799	0.080
Aroclor 1260 #4	7.937	34151421	0.080
Aroclor 1260 #5	8.505	22832888	0.076
SURRDCBPCB	9.027	34150799	75.497
Aroclor 1016		69364192	0.387
Aroclor 1260		159990636	0.394

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\112410pcb\009.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\112410pcb.met
User: jjy
Sample ID: 72009,874137,,mss
Acquired: Nov 24,2010 14:10:43
Printed: Nov 24,2010 17:06:58

JJY
11/24/10

Data Summary: {Data Description}



back detector Results

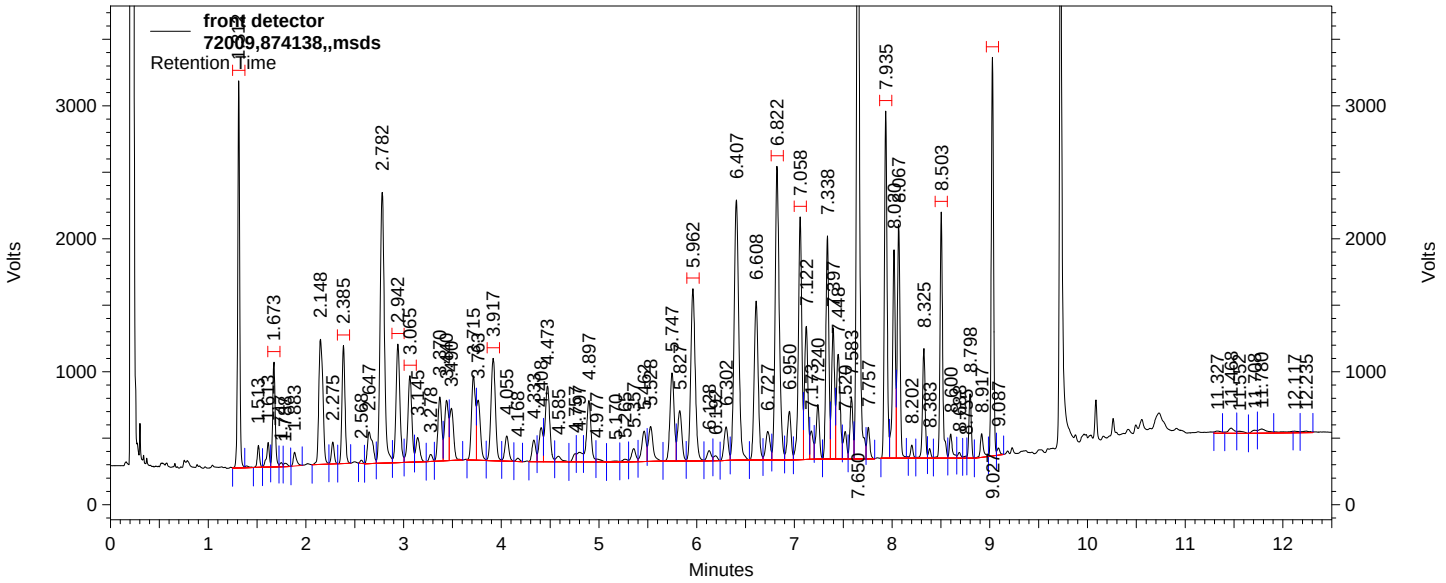
Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.003	14580404	73.320
Aroclor 1016 #1	1.443	5457305	0.080
Aroclor 1016 #2	1.852	10387352	0.080
Aroclor 1016 #3	2.122	5079139	0.079
Aroclor 1016 #4	2.595	10596024	0.080
Aroclor 1016 #5	2.742	8619566	0.079
Aroclor 1260 #1	5.453	14538915	0.078
Aroclor 1260 #2	5.867	18467193	0.080
Aroclor 1260 #3	6.012	9901232	0.078
Aroclor 1260 #4	6.138	10203727	0.079
Aroclor 1260 #5	7.022	7699482	0.078
SURRDCBPCB	8.592	17881818	80.877
Aroclor 1016		40139386	0.397
Aroclor 1260		60810549	0.393

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\112410pcb\010.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\112410pcb.met
User: jjy
Sample ID: 72009,874138,,msds
Acquired: Nov 24,2010 14:26:24
Printed: Nov 24,2010 17:07:10

JJY
11/24/10

Data Summary: {Data Description}



front detector Results

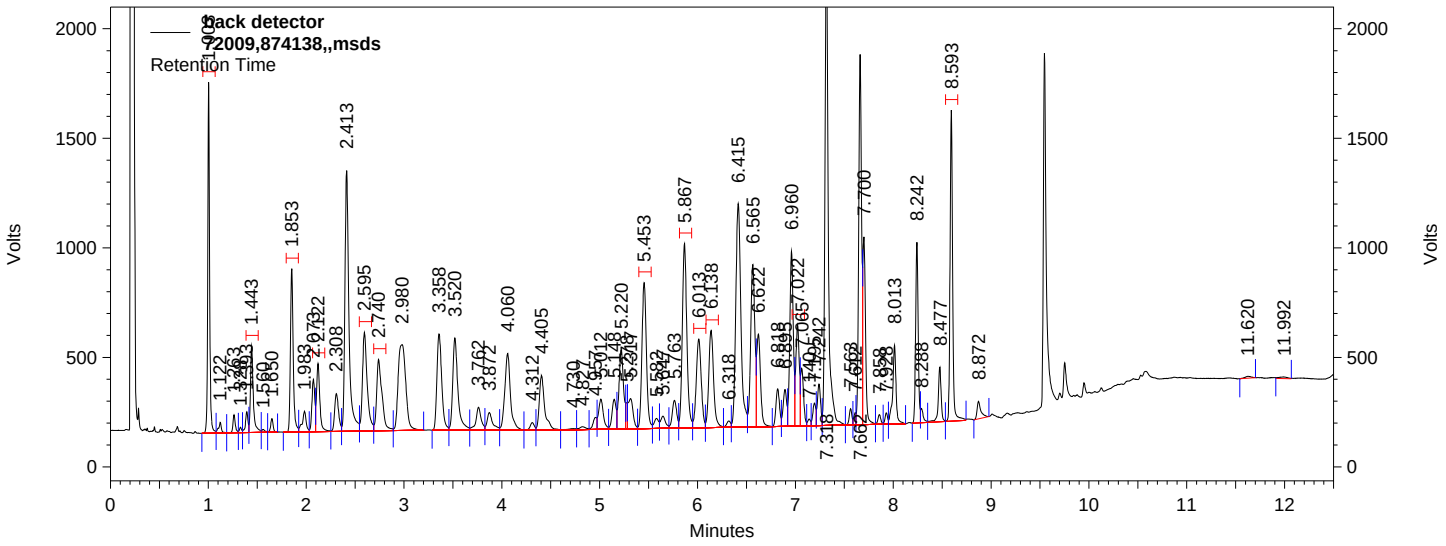
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.312	31402924	83.462
Aroclor 1016 #1	1.673	10663892	0.085
Aroclor 1016 #2	2.385	14712319	0.089
Aroclor 1016 #3	2.942	19259765	0.086
Aroclor 1016 #4	3.065	13912072	0.087
Aroclor 1016 #5	3.917	18441287	0.087
Aroclor 1260 #1	5.962	31573937	0.088
Aroclor 1260 #2	6.822	49251466	0.090
Aroclor 1260 #3	7.058	34253054	0.090
Aroclor 1260 #4	7.935	38240766	0.090
Aroclor 1260 #5	8.503	25888339	0.086
SURRDCBPCB	9.027	37733794	83.865
Aroclor 1016		76989335	0.433
Aroclor 1260		179207562	0.444

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\112410pcb\010.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\112410pcb.met
User: jjy
Sample ID: 72009,874138,,msds
Acquired: Nov 24,2010 14:26:24
Printed: Nov 24,2010 17:07:10

JJY
11/24/10

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.003	16109775	81.288
Aroclor 1016 #1	1.443	6030674	0.088
Aroclor 1016 #2	1.853	11484608	0.089
Aroclor 1016 #3	2.122	5603772	0.088
Aroclor 1016 #4	2.595	11673377	0.089
Aroclor 1016 #5	2.740	9516005	0.087
Aroclor 1260 #1	5.453	16193416	0.087
Aroclor 1260 #2	5.867	20781098	0.091
Aroclor 1260 #3	6.013	11081707	0.087
Aroclor 1260 #4	6.138	11505664	0.090
Aroclor 1260 #5	7.022	8629084	0.088
SURRDCBPCB	8.593	19951335	90.797
Aroclor 1016		44308436	0.442
Aroclor 1260		68190969	0.443

POLYCHLORINATED BIPHENYLS
LOGBOOK
DOCUMENTS

S PCB Analytical Run
72009 on 11/30/2010

Date Analyzed: JJY 11/30/10

Date Entered:

Date Reviewed:

Date Validated:

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	874139						PCB QSM				
				MBS				35516			
	874140						PCB QSM				
				LCSS				35516			
82424	870201		11/9/2010 1525		USACE - LOUISVILLE	RAVENNA	PCB QSM		S	**4**	
		DLASS-014-0001-SO		Designated MS/MSD				35516			
	874137		11/9/2010 1525				PCB QSM				
		DLASS-014-0001-SO		MSS 870201				35516			
	874138		11/9/2010 1525				PCB QSM				
		DLASS-014-0001-SO		MSDS 874137				35516			
82424	870203		11/9/2010 1535		USACE - LOUISVILLE	RAVENNA	PCB QSM		S	**4**	
		DLASS-014-0003-SO						35516			
82458	871184		11/11/2010 0900		USACE - LOUISVILLE	RAVENNA ORE PILES	PCB QSM		S	**4**	
		DLASS-032-0003-SO						35516			
82458	871186		11/11/2010 1230		USACE - LOUISVILLE	RAVENNA ORE PILES	PCB QSM		S	**4**	
		DLASS-042-0003-SO						35516			
82458	871197		11/11/2010 1220		USACE - LOUISVILLE	RAVENNA ORE PILES	PCB QSM		S	**4**	
		DLASS-042-0001-SO						35516			
82458	871198		11/11/2010 0900		USACE - LOUISVILLE	RAVENNA ORE PILES	PCB QSM		S	**4**	
		DLASS-032-0001-SO						35516			

10 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

PREP WORKSHEET
on 11/30/2010

Prep Batch **35,516**

Prepped By:: BEL

Date Prepped: 11/22/2010

Date Entered:

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
	874139	MBS		PCB QSM	SOLID	10.0	10.00			
	874140	LCSS		PCB QSM	SOLID	10.0	10.00			
82424	870201	*		PCB QSM	SOIL	10.0	9.95		N	
	870203			PCB QSM	SOIL	10.0	9.95		N	
82458	871184			PCB QSM	SOIL	10.0	10.05		N	
	871186			PCB QSM	SOIL	10.0	10.04		N	
	871197			PCB QSM	SOIL	10.0	10.04		N	
	871198			PCB QSM	SOIL	10.0	10.03		N	
	874137	MSS	870201	PCB QSM	SOIL	10.0	10.00			
	874138	MSDS	874137	PCB QSM	SOIL	10.0	10.04			

Control Spike/Control Spike Dup Reference Number:_____ Methanol Supplier/Lot #:_____

Notes:_____

Pesticides/PCB Extraction Bench Sheet
SOP Reference Number 8081&8082

Prep Batch Number 35516

EPA Method references:

8081 (Pesticides)
8082 (PCB)

3510 (Separatory Funnel Extraction)
3545 (Pressurized Fluid Extraction)
3580 (Waste Dilution)
3535 (Solid Phase Extraction)
3546 (Microwave Extraction)

Spike and Surrogate Information:

Spike amount and concentration (Matrix Spike and LCS): 0.5 mL @ 10 µg/mL
Spike Reference: **PP** 3122
Tox/Chlor spike amount and concentration: —
Tox/Chlor spike Reference: **PP** —
Surrogate amount and concentration: 0.5 mL @ 10 µg/mL
Surrogate standard reference: **PP** 3131

Reagent Lot #

$MeCl_2$ J36J16 Hexane H51E55 Na_2SO_4 J29601
Dionex **DI** 1433 Acetone J14E52 Diatomaceous Earth 49324
Methanol — Acid — Scale semibalance 1
GPC Start — GPC End —

Extraction by: BEL Date 11/22/10 Start Time 10:00 End Time 11:30
Initial Concentration by: — Date —/—/—
Final Concentration by: HHK Date 11/23/10

Cell #	Client	Sample Number	Sample Amt. (gm or mL)	Final Vol (mL)	pH	Comments
P	**Method Blank**	MB 874139	10.00	10.0		
Q	**Control Spike**	LCS 874140	10.00			
	~~**Control Spike Dup.**~~	LCSD	N/A BEL 11/22/10			
	Tox/Chlor Spike	Tox/Chlor				
R	**Matrix Spike**	MS 870201	10.00	10.0		
S	**Matrix Spike Dup.**	MSD 870201	10.04			
T	USACE	870201	9.95			
U		870203	9.95			
V		871184	10.05			
W		871186	10.04			
X		871197	10.04			
Y		871198	10.03			

Summary Report

Instrument ID: Semi 7 (Offline)
Data Path: C:\Instarch\Semi7\Sequence\111110pcbic.seq
User ID: jjy
Printed Date: 11/11/2010 4:39:24 PM

JJY
11/15/10

Run Number	Sample ID	Data Filename	Method Filename	Analysis Date	Data Description
1	Prime PP 3041	001.dat	111110pcbic.met	11/11/2010 4:26:54 PM	
2	Hexane	002.dat	111110pcbic.met	11/11/2010 4:42:31 PM	
3	PCB ICAL 1 PP 3036	003.dat	111110pcbic.met	11/11/2010 4:58:08 PM	
4	PCB ICAL 2 PP 3037	004.dat	111110pcbic.met	11/11/2010 5:13:48 PM	
5	PCB ICAL 3 PP 3038	005.dat	111110pcbic.met	11/11/2010 5:29:27 PM	
6	PCB ICAL 4 PP 3039	006.dat	111110pcbic.met	11/11/2010 5:45:06 PM	
7	PCB ICAL 5 PP 3040	007.dat	111110pcbic.met	11/11/2010 6:00:45 PM	
8	PCB ICAL 6 PP 3041	008.dat	111110pcbic.met	11/11/2010 6:16:25 PM	
9	Hexane	009.dat	111110pcbic.met	11/11/2010 6:32:04 PM	
10	PCB ICV PP 3047	010.dat	111110pcbic.met	11/11/2010 6:47:45 PM	
11	Hexane	011.dat	111110pcbic.met	11/11/2010 7:03:27 PM	
12	PCB 1221 CF PP 3068	012.dat	1221.met	11/11/2010 7:19:08 PM	
13	PCB 1232 CF PP 3042	013.dat	1232.met	11/11/2010 7:34:49 PM	
14	PCB 1242 CF PP 3043	014.dat	1242.met	11/11/2010 7:50:34 PM	
15	PCB 1248 CF PP 3044	015.dat	1248.met	11/11/2010 8:06:17 PM	
16	PCB 1254 CF PP 3045	016.dat	1254.met	11/11/2010 8:21:56 PM	
17	PCB 1262 CF PP 3046	017.dat	1262.met	11/11/2010 8:37:33 PM	
18	PCB 1268 CF PP 3072	018.dat	1268.met	11/11/2010 8:53:10 PM	
19	Hexane	019.dat	111110pcbic.met	11/11/2010 9:08:48 PM	
20	PCB 1221 ICV PP 3069	020.dat	1221.met	11/11/2010 9:24:25 PM	
21	PCB 1232 ICV PP 3048	021.dat	1232.met	11/11/2010 9:40:04 PM	
22	PCB 1242 ICV PP 3049	022.dat	1242.met	11/11/2010 9:55:44 PM	
23	PCB 1248 ICV PP 3050	023.dat	1248.met	11/11/2010 10:11:23 PM	
24	PCB 1254 ICV PP 3051	024.dat	1254.met	11/11/2010 10:27:02 PM	
25	PCB 1262 ICV PP 3052	025.dat	1262.met	11/11/2010 10:42:43 PM	
26	PCB 1268 ICV PP 3073	026.dat	1268.met	11/11/2010 10:58:25 PM	
27	Hexane	027.dat	111110pcbic.met	11/11/2010 11:14:07 PM	

Summary Report

Instrument ID: **Semi 7**
Data Path: **C:\Instarch\Semi7\Sequence\112410pcb.seq**
User ID: **jjy**
Printed Date: **Nov 24,2010 16:54:14**

JJY
11/24/10

Run Number	Sample ID	Data Filename	Method Filename	Analysis Date	Data Description
1	Prime PP 3041	001.dat	112410pcb.met	Nov 24,2010 10:30:20	
2	Hexane	002.dat	112410pcb.met	Nov 24,2010 10:46:01	
3	PCB CCV PP 3039	003.dat	112410pcb.met	Nov 24,2010 11:01:38	
4	Hexane	004.dat	112410pcb.met	Nov 24,2010 11:17:18	
5	72009,mbs,,	005.dat	112410pcb.met	Nov 24,2010 11:32:58	
6	72009,lcss,,	006.dat	112410pcb.met	Nov 24,2010 11:48:38	
7	Hexane	007.dat	112410pcb.met	Nov 24,2010 12:04:18	
8	72009,870201,,	008.dat	112410pcb.met	Nov 24,2010 13:55:03	
9	72009,874137,,mss	009.dat	112410pcb.met	Nov 24,2010 14:10:43	
10	72009,874138,,msds	010.dat	112410pcb.met	Nov 24,2010 14:26:24	
11	Hexane	011.dat	112410pcb.met	Nov 24,2010 14:42:07	
12	72009,870203,,	012.dat	112410pcb.met	Nov 24,2010 14:57:49	
13	72009,871184,,	013.dat	112410pcb.met	Nov 24,2010 15:13:30	
14	72009,871186,,	014.dat	112410pcb.met	Nov 24,2010 15:29:11	
15	72009,871197,,	015.dat	112410pcb.met	Nov 24,2010 15:44:52	
16	72009,871198,,	016.dat	112410pcb.met	Nov 24,2010 16:00:34	
17	PCB CCV PP 3039	017.dat	112410pcb.met	Nov 24,2010 16:16:11	

Table 4

8082 PCB Analysis Data Review Checklist

Analytical Run #: 72009	**Independent Reviewer: red**
Sequence Date: 11/24/2010	**Date of Review: 11/29/2010**
Analyst/Data Interpreter: JJY	**Approval: YES**

Instructions: Complete one checklist per *analytical run* . Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section, and may require the initiation of a Nonconformance Report.

Requirements:	Acceptance Criteria	Analyst Review		Independent Review		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
1. INITIAL CALIBRATION (ICAL)						
a. Was the PCB initial calibration (Aroclor 1016/1260) performed using a minimum of five varying standard concentration levels on two dissimilar columns?	Lowest standard at or near MRL	**Yes**		**Yes**		
b. Is the variation between calibration response factors for all concentration levels <20% RSD, is r^2 >.990, or r > 0.990 for the regression line?	RSD<20%, r^2>0.990, or r>0.990	**Yes**		**Yes**		
c. Was each ICAL uniquely identified (i.e. Standard Number)?		**Yes**		**Yes**		
d. Were there Calibration Factors (CF) established for the remaining Aroclors?		**Yes**		**Yes**		
e. Was an initial calibration blank (ICB) analyzed?		**Yes**		**Yes**		
2. INITIAL CALIBRATION VERIFICATION (ICV)						
a. Were there second source ICVs for all Aroclors analyzed after the initial calibration and prior to analysis of any samples?		**Yes**		**Yes**		
b. Were the recoveries for the ICVs within program limits?	Second source	**Yes**		**Yes**		
c. Was the ICVs uniquely identified (i.e. Standard Number)?	%Recovery	**Yes**		**Yes**		
3. CONTINUING CALIBRATION VERIFICATION (CCV)						
a. Were CCVs (Aroclor 1016/1260) analyzed at the beginning of the sequence, after every 12 hours or every 20 samples (which ever comes first) and at the end of the analytical run? QSM = every ten sample injections.		**Yes**		**Yes**		
b. Were the recoveries for the CCVs within program limits?	%Recovery	**Yes**		**Yes**		
c. Were confirmed Aroclor detects processed using the appropriate Aroclor method?		**Yes**		**Yes**		
d. Was each CCV uniquely identified (i.e. Standard Number)?		**Yes**		**Yes**		

Additional Comments:

Analytical Run #: 72009

Table 4

8082 PCB Analysis Data Review Checklist

Requirements:	Acceptance Criteria	Analyst		Independent		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
4. BLANKS						
a. Was the method blank (MB) analyzed prior to the analysis of samples?		**Yes**		**Yes**		
b. Was the MB result less than ½ the reporting limit (RL) or 5% of the sample amount?	In-house limits or client specified limits	**Yes**		**Yes**		
c. Was a MB prepped and analyzed at a frequency of one per Prep Batch?	Batch <20 samples	**Yes**		**Yes**		
5. LABORATORY CONTROL SAMPLE (LCS)						
a. Was a LCS analyzed prior to the analysis of samples?		**Yes**		**Yes**		
b. Were the LCS recoveries in each LCS within the acceptance criteria?	Batch <20 samples	**Yes**		**Yes**		
c. Was a LCS analyzed at a frequency one per Prep Batch?	In-house limits or client specified limits	**Yes**		**Yes**		
6. MATRIX SPIKES						
a. Was a matrix spiked (MS) sample analyzed at a frequency one per Prep Batch?	Batch <20 samples	**Yes**		**Yes**		
b. Were MS recoveries in each MS within the acceptance criteria?	In-house limits or client specified limits	**Yes**		**Yes**		
7. LABORATORY CONTROL SPIKE / MATRIX SPIKE DUPLICATE						
a. Was a duplicate matrix spike or laboratory control spike sample analyzed at a . frequency one per Prep Batch?	Batch <20 samples	**Yes**		**Yes**		
b. Were MSD or LCSD recoveries within the acceptance criteria?	In-house limits or client specified limits	**Yes**		**Yes**		
c. Is the relative percent difference (RPD) between a matrix spike (MS) and its' duplicate (MSD) or laboratory control spike (LCS) and its' duplicate (LCSD) within the acceptance criteria?	In-house limits or client specified limits	**Yes**		**Yes**		

Additional Comments:

Analytical Run #: 72009

Table 4

8082 PCB Analysis Data Review Checklist

Requirements:	Acceptance Criteria	Analyst		Independent		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
8. SAMPLES (INCLUDING BLANKS, STANDARDS, AND QC SAMPLES)						
a. Are chromatogram characteristics, including peak shapes and areas, consistent with those of the CCV?		**Yes**		**Yes**		
b. Are surrogate recoveries for all samples, blanks, standards, and QC samples within acceptance criteria?		**Yes**		**Yes**		
c. Were all samples having analytes detected in amounts exceeding the calibration range diluted and reanalyzed?		**Yes**		**Yes**		
d. Were all samples extracted within holding times and analyzed within 40 days of extracting?	Analysis within 40 days of extraction	**Yes**		**Yes**		
e. Did the samples require additional cleanup steps? (i.e. acid treatment, florisil, GPC, and sulfur treatment)	Florisil, GPC, Acid, Sulfur Treatments	**Yes**		**Yes**		Acid, Sulfur treatments.
f. Was there a hexane injection performed prior to sample analysis?		**Yes**		**Yes**		
g. Was there a priming standard injected prior to sample analysis?		**Yes**		**Yes**		
9. RECORDS AND REPORTING						
a. Is the Analytical Run, Prep Batch and Extraction sheets, Summary sheets, Sequence file, analytical data, and method transfer to PDF format?		**Yes**		**Yes**		
b. Are all chromatograms stamped with initials and date?		**Yes**		**Yes**		
c. Are reported results whose amounts exceeded the acceptance criteria flagged with an appropriate qualifier in LIMS and, if needed, a NCR completed?		**Yes**		**Yes**		
d. Do all values, dilution factors and qualifiers listed on the raw reports match the LIMS data?		**Yes**		**Yes**		
e. Is the ICAL method referenced on the Raw Data?		**Yes**		**Yes**		

Additional Comments:

Project _____ Notebook No. _____

Continued from Page _____

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
PP 3036	PCB Lin PT 1	Hexane	24-May-10 SRT 24-Nov-10	PP3024 10 ug/ml	0.030	10.0	0.03 ug/ml
PP 3037	PCB Lin PT 2	Lot#H37E06		PP3024 10 ug/ml	0.050	10.0	0.05 ug/ml
PP 3038	PCB Lin PT 3			PP3024 10 ug/ml	0.200	10.0	0.20 ug/ml
PP 3039	PCB Lin PT 4			PP3024 10 ug/ml	0.500	10.0	0.50 ug/ml
PP 3040	PCB Lin PT 5			PP3024 10 ug/ml	1.000	10.0	1.00 ug/ml
PP 3041	PCB Lin PT 6			PP3024 10 ug/ml	1.200	10.0	1.20 ug/ml
PP 3042	CF 1232			PP3025 10 ug/ml	0.500	10.0	0.5 ug/ml
PP 3043	CF 1242			PP3026 10 ug/ml	0.500	10.0	0.5 ug/ml
PP 3044	CF 1248			PP3027 10 ug/ml	0.500	10.0	0.5 ug/ml
PP 3045	CF 1254			PP3028 10 ug/ml	0.500	10.0	0.5 ug/ml
PP 3046	CF 1262			PP3029 10 ug/ml	0.500	10.0	0.5 ug/ml
PP 3047	1016/1260 ICV			PP3030 10 ug/ml	0.500	10.0	0.5 ug/ml
PP 3048	1232 ICV			PP3031 10 ug/ml	0.500	10.0	0.5 ug/ml
PP 3049	1242 ICV			PP3032 10 ug/ml	0.500	10.0	0.5 ug/ml
PP 3050	1248 ICV			PP3033 10 ug/ml	0.500	10.0	0.5 ug/ml
PP 3051	1254 ICV			PP3034 10 ug/ml	0.500	10.0	0.5 ug/ml
PP 3052	1262 ICV			PP3035 10 ug/ml	0.500	10.0	0.5 ug/ml

SRT 5-24-10

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
PP 3053	Tox/Chlor Spike	Acetone Lot#H12E11	03-Jun-10 SRT 28-Jul-10	S2093B 1000 ug/ml S2048A 1000 ug/ml	0.500 0.500	50.0 50.0	10.0 ug/ml 10.0 ug/ml

SRT 6-03-10

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
PP 3057	1254 Lin PT 1	Hexane	10-Jun-10 SRT 24-Nov-10	PP3028 10 ug/ml	0.030	10.0	0.03 ug/ml
PP 3058	1254 Lin Pt 2	Lot#H37E06		PP3028 10 ug/ml	0.050	10.0	0.05 ug/ml
PP 3059	1254 Lin Pt 3			PP3028 10 ug/ml	0.200	10.0	0.20 ug/ml
PP 3060	1254 Lin Pt 4			PP3028 10 ug/ml	0.500	10.0	0.50 ug/ml
PP 3061	1254 Lin PT 5			PP3028 10 ug/ml	1.000	10.0	1.00 ug/ml
PP 3062	1254 Lin Pt 6			PP3028 10 ug/ml	1.200	10.0	1.20 ug/ml
PP 3063	1254 ICV			PP3034 10 ug/ml	0.500	10.0	0.50 ug/ml
PP 3064	E-Val		10-Jun-10 SRT 10-Dec-10	S2213A 200 ug/ml	0.020	50.0	0.08 ug/ml

SRT 6-10-10

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
PP 3065	1242 CCV	Hexane Lot#H37E06	18-Jun-10 SRT 24-Nov-10	PP3026 10 ug/ml	0.500	10.0	0.5 ug/ml

SRT 6-18-10

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Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration			Standard Volume (ml)	Final Volume (ml)	Final Concentration	
PP 3066	1221 Int Std	Hexane	29-Jun-10 SRT 24-Nov-10	S2171	1000	ug/ml	0.100	10.0	10.0	ug/ml
		Lot#H37E06		S2072C	200	ug/ml	0.025	10.0	0.5	ug/ml
PP 3067	1221 Second Source			S2211	1000	ug/ml	0.100	10.0	10.0	ug/ml
				S2072C	200	ug/ml	0.025	10.0	0.5	ug/ml
PP 3068	CF 1221			PP 3066	10	ug/ml	0.500	10.0	0.5	ug/ml
PP 3069	1221 ICV			PP 3067	10	ug/ml	0.500	10.0	0.5	ug/ml
PP 3070	1268 Int STD			S2170	1000	ug/ml	0.100	10.0	10.0	ug/ml
				S2072C	200	ug/ml	0.025	10.0	0.5	ug/ml
PP 3071	1268 Second Source			S2215	1000	ug/ml	0.100	10.0	10.0	ug/ml
				S2072C	200	ug/ml	0.025	10.0	0.5	ug/ml
PP 3072	CF 1268			PP 3070	10	ug/ml	0.500	10.0	0.5	ug/ml
PP 3073	1268 ICV			PP3071	10	ug/ml	0.500	10.0	0.5	ug/ml

SRT 6-29-10

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration			Standard Volume (ml)	Final Volume (ml)	Final Concentration	
PP 3074	1262 Lin PT 1	Hexane	02-Jul-10 SRT 24-Nov-10	PP3029	10	ug/ml	0.030	10.0	0.03	ug/ml
PP 3075	1262 Lin PT 2	Lot#H37E06		PP3029	10	ug/ml	0.050	10.0	0.05	ug/ml
PP 3076	1262 Lin PT 3			PP3029	10	ug/ml	0.200	10.0	0.20	ug/ml
PP 3077	1262 Lin PT 4			PP3029	10	ug/ml	0.500	10.0	0.50	ug/ml
PP 3078	1262 Lin PT 5			PP3029	10	ug/ml	1.000	10.0	1.00	ug/ml
PP 3079	1262 Lin PT 6			PP3029	10	ug/ml	1.200	10.0	1.20	ug/ml
PP 3080	1262 ICV			PP3035	10	ug/ml	0.500	10.0	0.50	ug/ml

SRT 7-2-10

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration			Standard Volume (ml)	Final Volume (ml)	Final Concentration	
PP 3081	PCB Spike	Acetone JT Baker lot H12E11	21-Jul-10 JJY 29-Oct-10	S2043B	1000	ug/mL	0.500	50.0	10.0	ug/ml

JJY 7/29/10

JJY 7/29/2010

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Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration			Standard Volume (ml)	Final Volume (ml)	Final Concentration	
PP 3082	EVAL	Hexane JT Baker lot H47E47	29-Jul-10 JJY 10-Dec-10	S2213A						
				Endrin	100	ug/mL	0.020	50.0	0.040	ug/ml
				DDT	200	ug/mL	0.020	50.0	0.080	ug/ml
PP 3083	Pest ICAL Stock		29-Jul-10 JJY 29-Jan-11	S2144	200	ug/mL	0.100	10.0	2.0	ug/ml
				S2130B	200	ug/mL	0.063	10.0	1.3	ug/ml
PP 3084	Pest ICV Stock			S2145	200	ug/mL	0.100	10.0	2.0	ug/ml
				S230B	200	ug/mL	0.063	10.0	1.3	ug/ml
PP 3085	Tox/Chlor Stock			S2093A	1000	ug/mL	0.100	10.0	10.00	ug/ml
				S2204	1000	ug/mL	0.100	10.0	10.00	ug/ml
				S2130B	200	ug/mL	0.030	10.0	0.60	ug/ml
PP 3086	Tox/Chlor ICV Stock			S2206	1000	ug/mL	0.100	10.0	10.00	ug/ml
				S2205	1000	ug/mL	0.100	10.0	10.00	ug/ml
				S2130B	200	ug/mL	0.030	10.0	0.60	ug/ml
PP 3087	PEST ICAL 1			PP 3083	2	ug/mL	0.005	10.0	0.001	ug/ml
PP 3088	PEST ICAL 2			PP 3083	2	ug/mL	0.025	10.0	0.005	ug/ml
PP 3089	PEST ICAL 3			PP 3083	2	ug/mL	0.050	10.0	0.010	ug/ml
PP 3090	PEST ICAL 4			PP 3083	2	ug/mL	0.100	10.0	0.020	ug/ml
PP 3091	PEST ICAL 5			PP 3083	2	ug/mL	0.200	10.0	0.040	ug/ml
PP 3092	PEST ICAL 6			PP 3083	2	ug/mL	0.250	10.0	0.050	ug/ml
PP 3093	PEST ICAL 7			PP 3083	2	ug/mL	0.350	10.0	0.070	ug/ml
PP 3094	PEST ICV			PP 3084	2	ug/mL	0.200	10.0	0.040	ug/ml
PP 3095	Tox/Chlor 1			PP 3085	10	ug/mL	0.030	10.0	0.03	ug/ml
PP 3096	Tox/Chlor 2			PP 3085	10	ug/mL	0.050	10.0	0.05	ug/ml
PP 3097	Tox/Chlor 3			PP 3085	10	ug/mL	0.100	10.0	0.10	ug/ml
PP 3098	Tox/Chlor 4			PP 3085	10	ug/mL	0.250	10.0	0.25	ug/ml
PP 3099	Tox/Chlor 5			PP 3085	10	ug/mL	0.400	10.0	0.40	ug/ml
PP 3100	Tox/Chlor 6			PP 3085	10	ug/mL	0.600	10.0	0.60	ug/ml
PP 3101	Tox/Chlor ICV			PP 3086	10	ug/mL	0.250	10.0	0.25	ug/ml
PP 3102	Tox/Chlor Spike	Acetone JT Baker lot H12E11		S2206	1000	ug/mL	0.500	50.0	10.0	ug/ml
				S2205	1000	ug/mL	0.500	50.0	10.0	ug/ml
PP 3103	PEST CCV	Hexane JT Baker lot H47E47		PP 3083	2	ug/mL	0.200	10.0	0.040	ug/ml
PP 3104	Tox/Chlor CCV			PP 3085	10	ug/mL	0.250	10.0	0.250	ug/ml

JJY 7/29/2010

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration			Standard Volume (ml)	Final Volume (ml)	Final Concentration	
PP 3105	Pest/PCB Surrogate	Acetone JT Baker lot H12E11	20-Aug-10 JJY 24-Nov-10	S2130A	200	ug/mL	0.250	100.0	0.500	ug/ml

JJY 8/20/2010

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Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
PP 3106	Pest Spike	Acetone JT Baker lot H12E11	26-Aug-10 JJY 29-Jan-11	S2144 200 ug/mL	0.200	50.0	0.800 ug/ml

JJY 8/26/10

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
PP 3107	1242 ICAL 1	Hexane JT Baker lot H47E47	07-Sep-10 JJY 24-Nov-10	PP 3026 10 ug/mL	0.030	10.0	0.03 ug/ml
PP 3108	1242 ICAL 2		07-Sep-10 JJY 24-Nov-10	PP 3026 10 ug/mL	0.050	10.0	0.05 ug/ml
PP 3109	1242 ICAL 3		07-Sep-10 JJY 24-Nov-10	PP 3026 10 ug/mL	0.200	10.0	0.20 ug/ml
PP 3110	1242 ICAL 4		07-Sep-10 JJY 24-Nov-10	PP 3026 10 ug/mL	0.500	10.0	0.50 ug/ml
PP 3111	1242 ICAL 5		07-Sep-10 JJY 24-Nov-10	PP 3026 10 ug/mL	1.000	10.0	1.00 ug/ml
PP 3112	1242 ICAL 6		07-Sep-10 JJY 24-Nov-10	PP 3026 10 ug/mL	1.200	10.0	1.20 ug/ml
PP 3113	1242 ICV		07-Sep-10 JJY 24-Nov-10	PP 3032 10 ug/mL	0.500	10.0	0.50 ug/ml

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
PP 3114	1248 ICAL 1	Hexane JT Baker lot H47E47	21-Sep-10 JJY 24-Nov-10	PP 3027 10 ug/mL	0.030	10.0	0.03 ug/ml
PP 3115	1248 ICAL 2		21-Sep-10 JJY 24-Nov-10	PP 3027 10 ug/mL	0.050	10.0	0.05 ug/ml
PP 3116	1248 ICAL 3		21-Sep-10 JJY 24-Nov-10	PP 3027 10 ug/mL	0.200	10.0	0.20 ug/ml
PP 3117	1248 ICAL 4		21-Sep-10 JJY 24-Nov-10	PP 3027 10 ug/mL	0.500	10.0	0.50 ug/ml
PP 3118	1248 ICAL 5		21-Sep-10 JJY 24-Nov-10	PP 3027 10 ug/mL	1.000	10.0	1.00 ug/ml
PP 3119	1248 ICAL 6		21-Sep-10 JJY 24-Nov-10	PP 3027 10 ug/mL	1.200	10.0	1.20 ug/ml
PP 3120	1248 ICV		21-Sep-10 JJY 24-Nov-10	PP 3033 10 ug/mL	0.500	10.0	0.50 ug/ml

JJY 9/29/10

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
PP 3121	Pest/PCB Surrogate	Acetone JT Baker lot H30E21	29-Sep-10 JJY 24-Nov-10	S2130A 200 ug/mL	0.250	100.0	0.500 ug/ml

JJY 9/29/10

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
PP 3122	PCB Spike	Acetone JT Baker lot H30E21	14-Oct-10 JJY 14-Apr-11	S2043A 1000 ug/mL	0.500	50.0	10.00 ug/ml

JJY 10/14/10

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
PP 3123	1232 ICAL 1	Hexane JT Baker lot H51E55	19-Oct-10 JJY 24-Nov-10	PP 3025 10 ug/mL	0.030	10.0	0.03 ug/ml
PP 3124	1232 ICAL 2		19-Oct-10 JJY 24-Nov-10	PP 3025 10 ug/mL	0.050	10.0	0.05 ug/ml
PP 3125	1232 ICAL 3		19-Oct-10 JJY 24-Nov-10	PP 3025 10 ug/mL	0.200	10.0	0.20 ug/ml
PP 3126	1232 ICAL 4		19-Oct-10 JJY 24-Nov-10	PP 3025 10 ug/mL	0.500	10.0	0.50 ug/ml
PP 3127	1232 ICAL 5		19-Oct-10 JJY 24-Nov-10	PP 3025 10 ug/mL	1.000	10.0	1.00 ug/ml
PP 3128	1232 ICAL 6		19-Oct-10 JJY 24-Nov-10	PP 3025 10 ug/mL	1.200	10.0	1.20 ug/ml
PP 3129	1232 ICV		19-Oct-10 JJY 24-Nov-10	PP 3031 10 ug/mL	0.500	10.0	0.50 ug/ml

JJY 10/19/10

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Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
PP 3130	Pest MRL	Hexane JT Baker lot H51E55	20-Oct-10 JJY 29-Jan-11	PP 3083 2 ug/mL	0.010	10.0	0.002 ug/ml

JJY 10/20/2010

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
PP 3131	Pest/PCB Surrogate	Acetone JT Baker lot H30E21	22-Oct-10 JJY 22-Apr-11	S2257A 200 ug/mL	0.250	100.0	0.500 ug/ml

JJY 10/22/2010

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
PP 3132	1262 ICAL 1	Hexane	03-Nov-10 JJY 24-Nov-10	PP 3029 10 ug/mL	0.030	10.0	0.03 ug/ml
PP 3133	1262 ICAL 2	JT Baker	03-Nov-10 JJY 24-Nov-10	PP 3029 10 ug/mL	0.050	10.0	0.05 ug/ml
PP 3134	1262 ICAL 3	lot H51E55	03-Nov-10 JJY 24-Nov-10	PP 3029 10 ug/mL	0.200	10.0	0.20 ug/ml
PP 3135	1262 ICAL 4		03-Nov-10 JJY 24-Nov-10	PP 3029 10 ug/mL	0.500	10.0	0.50 ug/ml
PP 3136	1262 ICAL 5		03-Nov-10 JJY 24-Nov-10	PP 3029 10 ug/mL	1.000	10.0	1.00 ug/ml
PP 3137	1262 ICAL 6		03-Nov-10 JJY 24-Nov-10	PP 3029 10 ug/mL	1.200	10.0	1.20 ug/ml
PP 3138	1262 ICV		03-Nov-10 JJY 24-Nov-10	PP 3035 10 ug/mL	0.500	10.0	0.50 ug/ml

JJY 11/3/10

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
PP 3139	1221 ICAL 1	Hexane	04-Nov-10 JJY 24-Nov-10	PP 3066 10 ug/mL	0.030	10.0	0.03 ug/ml
PP 3140	1221 ICAL 2	JT Baker	04-Nov-10 JJY 24-Nov-10	PP 3066 10 ug/mL	0.050	10.0	0.05 ug/ml
PP 3141	1221 ICAL 3	lot H51E55	04-Nov-10 JJY 24-Nov-10	PP 3066 10 ug/mL	0.200	10.0	0.20 ug/ml
PP 3142	1221 ICAL 4		04-Nov-10 JJY 24-Nov-10	PP 3066 10 ug/mL	0.500	10.0	0.50 ug/ml
PP 3143	1221 ICAL 5		04-Nov-10 JJY 24-Nov-10	PP 3066 10 ug/mL	1.000	10.0	1.00 ug/ml
PP 3144	1221 ICAL 6		04-Nov-10 JJY 24-Nov-10	PP 3066 10 ug/mL	1.200	10.0	1.20 ug/ml
PP 3145	1221 ICV		04-Nov-10 JJY 24-Nov-10	PP 3067 10 ug/mL	0.500	10.0	0.50 ug/ml

JJY 11/4/10

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-031-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	97.9	Lab Sample ID:	871189
Analytical Method:	EPA 6010C	Date Received:	11/12/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71911	Analysis Date/Time	11/22/2010 08:28
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-09-7	Potassium	613		11	11	36	37
7440-23-5	Sodium	64.1		4.1	4.0	13	13

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-031-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	97.9	Lab Sample ID:	871189
Analytical Method:	EPA 7471A	Date Received:	11/12/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72018	Analysis Date/Time	11/24/2010 10:16
Analytical Prep Batch #:	35531	Prep. Date/Time:	11/23/2010 15:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-97-6	Mercury	0.054		0.0025	0.0025	0.0081	0.0081

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-031-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	97.9	Lab Sample ID:	871189
Analytical Method:	EPA 6010C	Date Received:	11/12/2010
Dilution Factor:	5.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71910	Analysis Date/Time	11/29/2010 17:46
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-47-3	Chromium	18.8		0.097	0.097	0.32	0.32
7440-48-4	Cobalt	10		0.077	0.077	0.25	0.25
7440-02-0	Nickel	21.8		0.092	0.092	0.31	0.31
7440-28-0	Thallium	0.20	U V	0.20	0.20	0.72	0.72

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-031-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	97.9	Lab Sample ID:	871189
Analytical Method:	EPA 6010C	Date Received:	11/12/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71910	Analysis Date/Time	11/19/2010 22:07
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers		DL	LOD	LOQ	RL
7429-90-5	Aluminum	7250			0.082	0.082	0.25	0.25
7440-36-0	Antimony	0.16	U	V	0.16	0.16	0.55	0.55
7440-38-2	Arsenic	11.7			0.27	0.27	0.92	0.92
7440-39-3	Barium	180		B	0.016	0.016	0.055	0.055
7440-41-7	Beryllium	0.60			0.0082	0.0082	0.025	0.025
7440-43-9	Cadmium	2.6			0.012	0.016	0.043	0.043
7440-70-2	Calcium	48600		B	0.12	0.31	1.0	1.0
7440-50-8	Copper	12.9		B	0.12	0.12	0.41	0.41
7439-89-6	Iron	25700			0.61	0.61	2.0	2.0
7439-92-1	Lead	32.3			0.082	0.082	0.29	0.29
7439-95-4	Magnesium	2180		B	0.25	0.25	0.82	0.82
7439-96-5	Manganese	868			0.033	0.041	0.10	0.11
7782-49-2	Selenium	0.14	U	V	0.14	0.14	0.86	0.86
7440-22-4	Silver	0.17			0.035	0.035	0.11	0.11
7440-62-2	Vanadium	15.9		B	0.022	0.022	0.069	0.069
7440-66-6	Zinc	174			0.082	0.082	0.25	0.25

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-032-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	98.2	Lab Sample ID:	871198
Analytical Method:	EPA 6010C	Date Received:	11/12/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71911	Analysis Date/Time	11/22/2010 08:56
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-09-7	Potassium	975		11	11	36	37
7440-23-5	Sodium	118		4.1	4.0	13	13

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Sample Description

DLASS-032-0001-SO

INORGANIC ANALYSIS DATA SHEET

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	98.2	Lab Sample ID:	871198
Analytical Method:	EPA 7471A	Date Received:	11/12/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72018	Analysis Date/Time	11/24/2010 10:36
Analytical Prep Batch #:	35531	Prep. Date/Time:	11/23/2010 15:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-97-6	Mercury	0.036		0.0024	0.0024	0.0080	0.0080

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-032-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	98.2	Lab Sample ID:	871198
Analytical Method:	EPA 6010C	Date Received:	11/12/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71910	Analysis Date/Time	12/03/2010 16:24
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7782-49-2	Selenium	2.3		0.14	0.14	0.86	0.86

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-032-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	98.2	Lab Sample ID:	871198
Analytical Method:	EPA 6010C	Date Received:	11/12/2010
Dilution Factor:	5.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71910	Analysis Date/Time	11/29/2010 18:59
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-36-0	Antimony	0.41	U V	0.41	0.41	1.4	1.4
7440-70-2	Calcium	72600		0.31	0.76	2.5	2.5
7440-47-3	Chromium	103		0.097	0.097	0.32	0.32
7440-48-4	Cobalt	10.2		0.076	0.076	0.25	0.25
7440-50-8	Copper	16.2		0.31	0.31	1.0	1.0
7439-92-1	Lead	22.4		0.20	0.20	0.71	0.71
7439-96-5	Manganese	1350		0.081	0.10	0.25	0.26
7440-02-0	Nickel	23.0		0.092	0.092	0.31	0.31
7440-28-0	Thallium	1.1		0.20	0.20	0.71	0.71

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-032-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	98.2	Lab Sample ID:	871198
Analytical Method:	EPA 6010C	Date Received:	11/12/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71910	Analysis Date/Time	11/19/2010 23:20
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7429-90-5	Aluminum	8040		0.081	0.081	0.24	0.24
7440-38-2	Arsenic	12.9		0.26	0.26	0.92	0.92
7440-39-3	Barium	317	B	0.016	0.016	0.055	0.055
7440-41-7	Beryllium	0.89		0.0081	0.0081	0.024	0.024
7440-43-9	Cadmium	1.6		0.012	0.016	0.043	0.043
7439-89-6	Iron	28400		0.61	0.61	2.0	2.0
7439-95-4	Magnesium	2580	B	0.24	0.24	0.81	0.81
7440-22-4	Silver	0.22		0.035	0.035	0.11	0.11
7440-62-2	Vanadium	17.5	B	0.022	0.022	0.069	0.069
7440-66-6	Zinc	60.6		0.081	0.081	0.24	0.24

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-032-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	98.1	Lab Sample ID:	871184
Analytical Method:	EPA 6010C	Date Received:	11/12/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71911	Analysis Date/Time	11/22/2010 08:18
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-09-7	Potassium	578		11	11	36	37
7440-23-5	Sodium	77.0		4.1	4.0	13	13

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-032-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	98.1	Lab Sample ID:	871184
Analytical Method:	EPA 7471A	Date Received:	11/12/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72018	Analysis Date/Time	11/24/2010 10:08
Analytical Prep Batch #:	35531	Prep. Date/Time:	11/23/2010 15:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-97-6	Mercury	0.045		0.0024	0.0024	0.0081	0.0081

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-032-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	98.1	Lab Sample ID:	871184
Analytical Method:	EPA 6010C	Date Received:	11/12/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71910	Analysis Date/Time	12/03/2010 14:49
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7782-49-2	Selenium	2.0		0.14	0.14	0.86	0.86

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-032-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	98.1	Lab Sample ID:	871184
Analytical Method:	EPA 6010C	Date Received:	11/12/2010
Dilution Factor:	5.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71910	Analysis Date/Time	11/29/2010 17:23
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-70-2	Calcium	64900		0.31	0.76	2.5	2.5
7440-47-3	Chromium	19.8		0.097	0.097	0.32	0.32
7440-48-4	Cobalt	9.1		0.076	0.076	0.25	0.25
7440-02-0	Nickel	18.5		0.092	0.092	0.31	0.31
7440-28-0	Thallium	0.75		0.20	0.20	0.71	0.71

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-032-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	98.1	Lab Sample ID:	871184
Analytical Method:	EPA 6010C	Date Received:	11/12/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71910	Analysis Date/Time	11/19/2010 21:43
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers		DL	LOD	LOQ	RL
7429-90-5	Aluminum	7340			0.082	0.082	0.24	0.24
7440-36-0	Antimony	0.22	J	V	0.16	0.16	0.55	0.55
7440-38-2	Arsenic	12.5			0.27	0.27	0.92	0.92
7440-39-3	Barium	195		B	0.016	0.016	0.055	0.055
7440-41-7	Beryllium	0.74			0.0082	0.0082	0.024	0.024
7440-43-9	Cadmium	1.4			0.012	0.016	0.043	0.043
7440-50-8	Copper	13.4		B	0.12	0.12	0.41	0.41
7439-89-6	Iron	25200			0.61	0.61	2.0	2.0
7439-92-1	Lead	30.3			0.082	0.082	0.29	0.29
7439-95-4	Magnesium	2310		B	0.24	0.24	0.82	0.82
7439-96-5	Manganese	1070			0.033	0.041	0.10	0.11
7440-22-4	Silver	0.20			0.035	0.035	0.11	0.11
7440-62-2	Vanadium	16.5		B	0.022	0.022	0.069	0.069
7440-66-6	Zinc	53.5			0.082	0.082	0.24	0.24

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-034-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	98.2	Lab Sample ID:	871192
Analytical Method:	EPA 6010C	Date Received:	11/12/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71911	Analysis Date/Time	11/22/2010 08:41
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-09-7	Potassium	664		11	11	36	37
7440-23-5	Sodium	39.7		4.1	4.0	13	13

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-034-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	98.2	Lab Sample ID:	871192
Analytical Method:	EPA 7471A	Date Received:	11/12/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72018	Analysis Date/Time	11/24/2010 10:25
Analytical Prep Batch #:	35531	Prep. Date/Time:	11/23/2010 15:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-97-6	Mercury	0.035		0.0024	0.0024	0.0080	0.0080

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-034-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	98.2	Lab Sample ID:	871192
Analytical Method:	EPA 6010C	Date Received:	11/12/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71910	Analysis Date/Time	12/03/2010 15:29
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7782-49-2	Selenium	2.1		0.14	0.14	0.86	0.86

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-034-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	98.2	Lab Sample ID:	871192
Analytical Method:	EPA 6010C	Date Received:	11/12/2010
Dilution Factor:	5.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71910	Analysis Date/Time	11/29/2010 18:25
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-47-3	Chromium	65.6		0.097	0.097	0.32	0.32
7440-48-4	Cobalt	8.0		0.076	0.076	0.25	0.25
7440-02-0	Nickel	16.2		0.092	0.092	0.31	0.31
7440-28-0	Thallium	0.41	J V	0.20	0.20	0.71	0.71

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-034-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	98.2	Lab Sample ID:	871192
Analytical Method:	EPA 6010C	Date Received:	11/12/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71910	Analysis Date/Time	11/19/2010 22:25
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7429-90-5	Aluminum	7840		0.081	0.081	0.24	0.24
7440-36-0	Antimony	0.69		0.16	0.16	0.55	0.55
7440-38-2	Arsenic	8.6		0.26	0.26	0.92	0.92
7440-39-3	Barium	96.7	B	0.016	0.016	0.055	0.055
7440-41-7	Beryllium	0.49		0.0081	0.0081	0.024	0.024
7440-43-9	Cadmium	0.79		0.012	0.016	0.043	0.043
7440-70-2	Calcium	38000	B	0.12	0.31	1.0	1.0
7440-50-8	Copper	10.7	B	0.12	0.12	0.41	0.41
7439-89-6	Iron	18000		0.61	0.61	2.0	2.0
7439-92-1	Lead	21.6		0.081	0.081	0.29	0.29
7439-95-4	Magnesium	1850	B	0.24	0.24	0.81	0.81
7439-96-5	Manganese	687		0.033	0.041	0.10	0.11
7440-22-4	Silver	0.12		0.035	0.035	0.11	0.11
7440-62-2	Vanadium	16.9	B	0.022	0.022	0.069	0.069
7440-66-6	Zinc	41.0		0.081	0.081	0.24	0.24

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-035-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	98.0	Lab Sample ID:	871187
Analytical Method:	EPA 6010C	Date Received:	11/12/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71911	Analysis Date/Time	11/22/2010 08:23
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-09-7	Potassium	704		11	11	36	37
7440-23-5	Sodium	36.2		4.1	4.0	13	13

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-035-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	98.0	Lab Sample ID:	871187
Analytical Method:	EPA 7471A	Date Received:	11/12/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72018	Analysis Date/Time	11/24/2010 10:12
Analytical Prep Batch #:	35531	Prep. Date/Time:	11/23/2010 15:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-97-6	Mercury	0.041		0.0024	0.0024	0.0081	0.0081

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-035-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	98.0	Lab Sample ID:	871187
Analytical Method:	EPA 6010C	Date Received:	11/12/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71910	Analysis Date/Time	12/03/2010 15:00
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7782-49-2	Selenium	1.7		0.14	0.14	0.86	0.86

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-035-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	98.0	Lab Sample ID:	871187
Analytical Method:	EPA 6010C	Date Received:	11/12/2010
Dilution Factor:	5.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71910	Analysis Date/Time	11/29/2010 17:35
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-47-3	Chromium	70.8		0.097	0.097	0.32	0.32
7440-48-4	Cobalt	8.0		0.077	0.077	0.25	0.25
7440-02-0	Nickel	13.6		0.092	0.092	0.31	0.31
7440-28-0	Thallium	0.32	J V	0.20	0.20	0.71	0.71

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-035-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	98.0	Lab Sample ID:	871187
Analytical Method:	EPA 6010C	Date Received:	11/12/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71910	Analysis Date/Time	11/19/2010 21:54
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7429-90-5	Aluminum	8620		0.082	0.082	0.24	0.24
7440-36-0	Antimony	1.2		0.16	0.16	0.55	0.55
7440-38-2	Arsenic	9.5		0.27	0.27	0.92	0.92
7440-39-3	Barium	90.3	B	0.016	0.016	0.055	0.055
7440-41-7	Beryllium	0.49		0.0082	0.0082	0.024	0.024
7440-43-9	Cadmium	0.92		0.012	0.016	0.043	0.043
7440-70-2	Calcium	24600	B	0.12	0.31	1.0	1.0
7440-50-8	Copper	12.0	B	0.12	0.12	0.41	0.41
7439-89-6	Iron	20200		0.61	0.61	2.0	2.0
7439-92-1	Lead	22.4		0.082	0.082	0.29	0.29
7439-95-4	Magnesium	1840	B	0.24	0.24	0.82	0.82
7439-96-5	Manganese	893		0.033	0.041	0.10	0.11
7440-22-4	Silver	0.16		0.035	0.035	0.11	0.11
7440-62-2	Vanadium	19.2	B	0.022	0.022	0.069	0.069
7440-66-6	Zinc	49.0		0.082	0.082	0.24	0.24

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-036-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	97.7	Lab Sample ID:	871188
Analytical Method:	EPA 6010C	Date Received:	11/12/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71911	Analysis Date/Time	11/22/2010 08:25
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-09-7	Potassium	1380		11	11	36	37
7440-23-5	Sodium	325		4.1	4.0	13	13

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-036-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	97.7	Lab Sample ID:	871188
Analytical Method:	EPA 7471A	Date Received:	11/12/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72018	Analysis Date/Time	11/24/2010 10:14
Analytical Prep Batch #:	35531	Prep. Date/Time:	11/23/2010 15:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-97-6	Mercury	0.034		0.0025	0.0025	0.0081	0.0081

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-036-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	97.7	Lab Sample ID:	871188
Analytical Method:	EPA 6010C	Date Received:	11/12/2010
Dilution Factor:	10.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71910	Analysis Date/Time	12/03/2010 15:06
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers		DL	LOD	LOQ	RL
7440-70-2	Calcium	209000		B	0.61	1.5	5.1	5.1
7782-49-2	Selenium	1.1	J	V	0.72	0.72	4.3	4.3

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-036-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	97.7	Lab Sample ID:	871188
Analytical Method:	EPA 6010C	Date Received:	11/12/2010
Dilution Factor:	5.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71910	Analysis Date/Time	11/29/2010 17:40
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-47-3	Chromium	42.1		0.097	0.097	0.32	0.32
7440-48-4	Cobalt	7.5		0.077	0.077	0.25	0.25
7440-02-0	Nickel	21.5		0.092	0.092	0.31	0.31
7440-28-0	Thallium	1.7		0.20	0.20	0.72	0.72

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-036-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	97.7	Lab Sample ID:	871188
Analytical Method:	EPA 6010C	Date Received:	11/12/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71910	Analysis Date/Time	11/19/2010 22:00
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7429-90-5	Aluminum	8030		0.082	0.082	0.25	0.25
7440-36-0	Antimony	0.89		0.16	0.16	0.55	0.55
7440-38-2	Arsenic	14.2		0.27	0.27	0.92	0.92
7440-39-3	Barium	527	B	0.016	0.016	0.055	0.055
7440-41-7	Beryllium	1.2		0.0082	0.0082	0.025	0.025
7440-43-9	Cadmium	1.7		0.012	0.016	0.043	0.043
7440-50-8	Copper	14.0	B	0.12	0.12	0.41	0.41
7439-89-6	Iron	28500		0.61	0.61	2.0	2.0
7439-92-1	Lead	46.9		0.082	0.082	0.29	0.29
7439-95-4	Magnesium	5370	B	0.25	0.25	0.82	0.82
7439-96-5	Manganese	1310		0.033	0.041	0.10	0.11
7440-22-4	Silver	0.29		0.035	0.035	0.11	0.11
7440-62-2	Vanadium	10.7	B	0.023	0.023	0.070	0.070
7440-66-6	Zinc	62.9		0.082	0.082	0.25	0.25

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-037-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	97.8	Lab Sample ID:	871191
Analytical Method:	EPA 6010C	Date Received:	11/12/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71911	Analysis Date/Time	11/22/2010 08:33
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-09-7	Potassium	1110		11	11	36	37
7440-23-5	Sodium	152		4.1	4.0	13	13

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-037-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	97.8	Lab Sample ID:	871191
Analytical Method:	EPA 7471A	Date Received:	11/12/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72018	Analysis Date/Time	11/24/2010 10:23
Analytical Prep Batch #:	35531	Prep. Date/Time:	11/23/2010 15:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-97-6	Mercury	0.058		0.0025	0.0025	0.0081	0.0081

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-037-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	97.8	Lab Sample ID:	871191
Analytical Method:	EPA 6010C	Date Received:	11/12/2010
Dilution Factor:	10.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71910	Analysis Date/Time	12/03/2010 15:23
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-70-2	Calcium	127000	B	0.61	1.5	5.1	5.1

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-037-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	97.8	Lab Sample ID:	871191
Analytical Method:	EPA 6010C	Date Received:	11/12/2010
Dilution Factor:	5.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71910	Analysis Date/Time	11/29/2010 18:19
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-47-3	Chromium	40.5		0.097	0.097	0.32	0.32
7440-48-4	Cobalt	8.2		0.077	0.077	0.25	0.25
7440-02-0	Nickel	22.8		0.092	0.092	0.31	0.31
7440-28-0	Thallium	1.6		0.20	0.20	0.72	0.72

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-037-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	97.8	Lab Sample ID:	871191
Analytical Method:	EPA 6010C	Date Received:	11/12/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71910	Analysis Date/Time	11/19/2010 22:18
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7429-90-5	Aluminum	5620		0.082	0.082	0.25	0.25
7440-36-0	Antimony	0.58		0.16	0.16	0.55	0.55
7440-38-2	Arsenic	10.7		0.27	0.27	0.92	0.92
7440-39-3	Barium	432	B	0.016	0.016	0.055	0.055
7440-41-7	Beryllium	0.64		0.0082	0.0082	0.025	0.025
7440-43-9	Cadmium	1.8		0.012	0.016	0.043	0.043
7440-50-8	Copper	12.6	B	0.12	0.12	0.41	0.41
7439-89-6	Iron	27600		0.61	0.61	2.0	2.0
7439-92-1	Lead	33.6		0.082	0.082	0.29	0.29
7439-95-4	Magnesium	2670	B	0.25	0.25	0.82	0.82
7439-96-5	Manganese	838		0.033	0.041	0.10	0.11
7782-49-2	Selenium	0.14	U V	0.14	0.14	0.86	0.86
7440-22-4	Silver	0.20		0.035	0.035	0.11	0.11
7440-62-2	Vanadium	12.3	B	0.022	0.022	0.070	0.070
7440-66-6	Zinc	61.9		0.082	0.082	0.25	0.25

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-038-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	98.1	Lab Sample ID:	871193
Analytical Method:	EPA 6010C	Date Received:	11/12/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71911	Analysis Date/Time	11/22/2010 08:43
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-09-7	Potassium	629		11	11	36	37
7440-23-5	Sodium	44.6		4.1	4.0	13	13

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-038-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	98.1	Lab Sample ID:	871193
Analytical Method:	EPA 7471A	Date Received:	11/12/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72018	Analysis Date/Time	11/24/2010 10:27
Analytical Prep Batch #:	35531	Prep. Date/Time:	11/23/2010 15:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-97-6	Mercury	0.032		0.0024	0.0024	0.0081	0.0081

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-038-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	98.1	Lab Sample ID:	871193
Analytical Method:	EPA 6010C	Date Received:	11/12/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71910	Analysis Date/Time	12/03/2010 15:56
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers		DL	LOD	LOQ	RL
7782-49-2	Selenium	0.56	J	V	0.14	0.14	0.86	0.86

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-038-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	98.1	Lab Sample ID:	871193
Analytical Method:	EPA 6010C	Date Received:	11/12/2010
Dilution Factor:	5.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71910	Analysis Date/Time	11/29/2010 18:31
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers		DL	LOD	LOQ	RL
7440-36-0	Antimony	0.41	U	V	0.41	0.41	1.4	1.4
7440-47-3	Chromium	15.4			0.097	0.097	0.32	0.32
7440-48-4	Cobalt	9.6			0.076	0.076	0.25	0.25
7440-50-8	Copper	15.7			0.31	0.31	1.0	1.0
7439-92-1	Lead	14.7			0.20	0.20	0.71	0.71
7439-96-5	Manganese	836		B	0.082	0.10	0.25	0.27
7440-02-0	Nickel	18.9			0.092	0.092	0.31	0.31
7440-28-0	Thallium	0.52	J		0.20	0.20	0.71	0.71

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-038-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	98.1	Lab Sample ID:	871193
Analytical Method:	EPA 6010C	Date Received:	11/12/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71910	Analysis Date/Time	11/19/2010 22:52
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7429-90-5	Aluminum	7800		0.082	0.082	0.24	0.24
7440-38-2	Arsenic	10.3		0.27	0.27	0.92	0.92
7440-39-3	Barium	95.8	B	0.016	0.016	0.055	0.055
7440-41-7	Beryllium	0.68		0.0082	0.0082	0.024	0.024
7440-43-9	Cadmium	0.85		0.012	0.016	0.043	0.043
7440-70-2	Calcium	36700	B	0.12	0.31	1.0	1.0
7439-89-6	Iron	18200		0.61	0.61	2.0	2.0
7439-95-4	Magnesium	2350	B	0.24	0.24	0.82	0.82
7440-22-4	Silver	0.11	V	0.035	0.035	0.11	0.11
7440-62-2	Vanadium	14.8	B	0.022	0.022	0.069	0.069
7440-66-6	Zinc	46.1		0.082	0.082	0.24	0.24

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-039-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	97.8	Lab Sample ID:	871190
Analytical Method:	EPA 6010C	Date Received:	11/12/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71911	Analysis Date/Time	11/22/2010 08:31
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-09-7	Potassium	1010		11	11	36	37
7440-23-5	Sodium	47.3		4.1	4.0	13	13

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-039-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	97.8	Lab Sample ID:	871190
Analytical Method:	EPA 7471A	Date Received:	11/12/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72018	Analysis Date/Time	11/24/2010 10:18
Analytical Prep Batch #:	35531	Prep. Date/Time:	11/23/2010 15:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-97-6	Mercury	0.039		0.0025	0.0025	0.0081	0.0081

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-039-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	97.8	Lab Sample ID:	871190
Analytical Method:	EPA 6010C	Date Received:	11/12/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71910	Analysis Date/Time	12/03/2010 15:17
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers		DL	LOD	LOQ	RL
7782-49-2	Selenium	0.23	J	V	0.14	0.14	0.86	0.86

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-039-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	97.8	Lab Sample ID:	871190
Analytical Method:	EPA 6010C	Date Received:	11/12/2010
Dilution Factor:	5.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71910	Analysis Date/Time	11/29/2010 17:52
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-47-3	Chromium	146		0.097	0.097	0.32	0.32
7440-48-4	Cobalt	12.2		0.077	0.077	0.25	0.25
7440-02-0	Nickel	21.3		0.092	0.092	0.31	0.31
7440-28-0	Thallium	0.20	U V	0.20	0.20	0.72	0.72

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-039-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	97.8	Lab Sample ID:	871190
Analytical Method:	EPA 6010C	Date Received:	11/12/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71910	Analysis Date/Time	11/19/2010 22:13
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7429-90-5	Aluminum	9460		0.082	0.082	0.25	0.25
7440-36-0	Antimony	1.4		0.16	0.16	0.55	0.55
7440-38-2	Arsenic	11.7		0.27	0.27	0.92	0.92
7440-39-3	Barium	109	B	0.016	0.016	0.055	0.055
7440-41-7	Beryllium	0.65		0.0082	0.0082	0.025	0.025
7440-43-9	Cadmium	1.1		0.012	0.016	0.043	0.043
7440-70-2	Calcium	20400	B	0.12	0.31	1.0	1.0
7440-50-8	Copper	17.7	B	0.12	0.12	0.41	0.41
7439-89-6	Iron	23100		0.61	0.61	2.0	2.0
7439-92-1	Lead	27.0		0.082	0.082	0.29	0.29
7439-95-4	Magnesium	2010	B	0.25	0.25	0.82	0.82
7439-96-5	Manganese	1220		0.033	0.041	0.10	0.11
7440-22-4	Silver	0.19		0.035	0.035	0.11	0.11
7440-62-2	Vanadium	20.6	B	0.022	0.022	0.070	0.070
7440-66-6	Zinc	50.4		0.082	0.082	0.25	0.25

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Sample Description

DLASS-040-0001-SO

INORGANIC ANALYSIS DATA SHEET

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	99.3	Lab Sample ID:	871196
Analytical Method:	EPA 6010C	Date Received:	11/12/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71911	Analysis Date/Time	11/22/2010 08:51
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-09-7	Potassium	363		11	11	36	36
7440-23-5	Sodium	35.2		4.0	4.0	13	13

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-040-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	99.3	Lab Sample ID:	871196
Analytical Method:	EPA 7471A	Date Received:	11/12/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72018	Analysis Date/Time	11/24/2010 10:33
Analytical Prep Batch #:	35531	Prep. Date/Time:	11/23/2010 15:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-97-6	Mercury	0.0060	J	0.0024	0.0024	0.0080	0.0080

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-040-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	99.3	Lab Sample ID:	871196
Analytical Method:	EPA 6010C	Date Received:	11/12/2010
Dilution Factor:	5.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71910	Analysis Date/Time	11/29/2010 18:48
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers		DL	LOD	LOQ	RL
7440-36-0	Antimony	0.40	U	V	0.40	0.40	1.4	1.4
7440-47-3	Chromium	8.3			0.096	0.096	0.32	0.32
7440-48-4	Cobalt	87.9			0.076	0.076	0.25	0.25
7440-50-8	Copper	431			0.30	0.30	1.0	1.0
7439-92-1	Lead	27.3			0.20	0.20	0.70	0.70
7439-96-5	Manganese	351		B	0.081	0.10	0.25	0.26
7440-02-0	Nickel	32.6			0.091	0.091	0.31	0.31
7440-28-0	Thallium	0.43	J	V	0.20	0.20	0.70	0.70

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-040-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	99.3	Lab Sample ID:	871196
Analytical Method:	EPA 6010C	Date Received:	11/12/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71910	Analysis Date/Time	11/19/2010 23:09
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7429-90-5	Aluminum	2280		0.081	0.081	0.24	0.24
7440-38-2	Arsenic	8.5		0.26	0.26	0.91	0.91
7440-39-3	Barium	47.3	B	0.016	0.016	0.054	0.054
7440-41-7	Beryllium	0.26		0.0081	0.0081	0.024	0.024
7440-43-9	Cadmium	0.67		0.012	0.016	0.042	0.042
7440-70-2	Calcium	36700	B	0.12	0.30	1.0	1.0
7439-89-6	Iron	10400		0.60	0.60	2.0	2.0
7439-95-4	Magnesium	1100	B	0.24	0.24	0.81	0.81
7782-49-2	Selenium	0.14	U V	0.14	0.14	0.85	0.85
7440-22-4	Silver	0.13		0.034	0.034	0.11	0.11
7440-62-2	Vanadium	4.9	B	0.022	0.022	0.068	0.068
7440-66-6	Zinc	55.9		0.081	0.081	0.24	0.24

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-041-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	99.1	Lab Sample ID:	871195
Analytical Method:	EPA 6010C	Date Received:	11/12/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71911	Analysis Date/Time	11/22/2010 08:48
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-09-7	Potassium	399		11	11	36	36
7440-23-5	Sodium	35.6		4.0	4.0	13	13

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-041-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	99.1	Lab Sample ID:	871195
Analytical Method:	EPA 7471A	Date Received:	11/12/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72018	Analysis Date/Time	11/24/2010 10:31
Analytical Prep Batch #:	35531	Prep. Date/Time:	11/23/2010 15:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-97-6	Mercury	0.0080		0.0024	0.0024	0.0080	0.0080

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-041-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	99.1	Lab Sample ID:	871195
Analytical Method:	EPA 6010C	Date Received:	11/12/2010
Dilution Factor:	5.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71910	Analysis Date/Time	11/29/2010 18:42
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers		DL	LOD	LOQ	RL
7440-36-0	Antimony	0.40	U	V	0.40	0.40	1.4	1.4
7440-47-3	Chromium	9.8			0.096	0.096	0.32	0.32
7440-48-4	Cobalt	33.8			0.076	0.076	0.25	0.25
7440-50-8	Copper	159			0.30	0.30	1.0	1.0
7439-92-1	Lead	18.4			0.20	0.20	0.71	0.71
7439-96-5	Manganese	506		B	0.081	0.10	0.25	0.26
7440-02-0	Nickel	18.3			0.091	0.091	0.31	0.31
7440-28-0	Thallium	0.49	J	V	0.20	0.20	0.71	0.71

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-041-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	99.1	Lab Sample ID:	871195
Analytical Method:	EPA 6010C	Date Received:	11/12/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71910	Analysis Date/Time	11/19/2010 23:03
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers		DL	LOD	LOQ	RL
7429-90-5	Aluminum	2370			0.081	0.081	0.24	0.24
7440-38-2	Arsenic	7.2			0.26	0.26	0.91	0.91
7440-39-3	Barium	28.2		B	0.016	0.016	0.054	0.054
7440-41-7	Beryllium	0.29			0.0081	0.0081	0.024	0.024
7440-43-9	Cadmium	0.74			0.012	0.016	0.042	0.042
7440-70-2	Calcium	6310		B	0.12	0.30	1.0	1.0
7439-89-6	Iron	11600			0.61	0.61	2.0	2.0
7439-95-4	Magnesium	984		B	0.24	0.24	0.81	0.81
7782-49-2	Selenium	0.14	U	V	0.14	0.14	0.85	0.85
7440-22-4	Silver	0.035	J	V	0.034	0.034	0.11	0.11
7440-62-2	Vanadium	5.3		B	0.022	0.022	0.069	0.069
7440-66-6	Zinc	50.5			0.081	0.081	0.24	0.24

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-042-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	99.0	Lab Sample ID:	871197
Analytical Method:	EPA 6010C	Date Received:	11/12/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71911	Analysis Date/Time	11/22/2010 08:53
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-09-7	Potassium	417		11	11	36	36
7440-23-5	Sodium	70.7		4.0	4.0	13	13

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-042-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	99.0	Lab Sample ID:	871197
Analytical Method:	EPA 7471A	Date Received:	11/12/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72018	Analysis Date/Time	11/24/2010 10:35
Analytical Prep Batch #:	35531	Prep. Date/Time:	11/23/2010 15:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-97-6	Mercury	0.025		0.0024	0.0024	0.0080	0.0080

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-042-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	99.0	Lab Sample ID:	871197
Analytical Method:	EPA 6010C	Date Received:	11/12/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71910	Analysis Date/Time	12/03/2010 16:19
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7782-49-2	Selenium	1.2		0.14	0.14	0.85	0.85

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-042-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	99.0	Lab Sample ID:	871197
Analytical Method:	EPA 6010C	Date Received:	11/12/2010
Dilution Factor:	5.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71910	Analysis Date/Time	11/29/2010 18:54
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-47-3	Chromium	10.4		0.096	0.096	0.32	0.32
7440-48-4	Cobalt	25.8		0.076	0.076	0.25	0.25
7440-50-8	Copper	119		0.30	0.30	1.0	1.0
7439-92-1	Lead	21.6		0.20	0.20	0.71	0.71
7439-96-5	Manganese	595	B	0.081	0.10	0.25	0.26
7440-02-0	Nickel	20.6		0.091	0.091	0.31	0.31

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-042-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	99.0	Lab Sample ID:	871197
Analytical Method:	EPA 6010C	Date Received:	11/12/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71910	Analysis Date/Time	11/19/2010 23:15
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers		DL	LOD	LOQ	RL
7429-90-5	Aluminum	2940			0.081	0.081	0.24	0.24
7440-36-0	Antimony	0.16	U	V	0.16	0.16	0.55	0.55
7440-38-2	Arsenic	6.8			0.26	0.26	0.91	0.91
7440-39-3	Barium	65.2		B	0.016	0.016	0.055	0.055
7440-41-7	Beryllium	0.42			0.0081	0.0081	0.024	0.024
7440-43-9	Cadmium	0.74			0.012	0.016	0.042	0.042
7440-70-2	Calcium	47200		B	0.12	0.30	1.0	1.0
7439-89-6	Iron	11100			0.61	0.61	2.0	2.0
7439-95-4	Magnesium	1750		B	0.24	0.24	0.81	0.81
7440-22-4	Silver	0.057	J	V	0.034	0.034	0.11	0.11
7440-28-0	Thallium	0.081	U	V	0.081	0.081	0.28	0.28
7440-62-2	Vanadium	4.4		B	0.022	0.022	0.069	0.069
7440-66-6	Zinc	308			0.081	0.081	0.24	0.24

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-042-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	99.1	Lab Sample ID:	871186
Analytical Method:	EPA 6010C	Date Received:	11/12/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71911	Analysis Date/Time	11/22/2010 08:20
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-09-7	Potassium	467		11	11	36	36
7440-23-5	Sodium	86.3		4.0	4.0	13	13

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-042-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	99.1	Lab Sample ID:	871186
Analytical Method:	EPA 7471A	Date Received:	11/12/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72018	Analysis Date/Time	11/24/2010 10:10
Analytical Prep Batch #:	35531	Prep. Date/Time:	11/23/2010 15:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-97-6	Mercury	0.0078	J	0.0024	0.0024	0.0080	0.0080

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-042-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	99.1	Lab Sample ID:	871186
Analytical Method:	EPA 6010C	Date Received:	11/12/2010
Dilution Factor:	5.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71910	Analysis Date/Time	11/29/2010 17:29
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-47-3	Chromium	11.7		0.096	0.096	0.32	0.32
7440-48-4	Cobalt	24.6		0.076	0.076	0.25	0.25
7440-02-0	Nickel	19.9		0.091	0.091	0.31	0.31
7440-28-0	Thallium	0.20	U V	0.20	0.20	0.71	0.71

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-042-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	99.1	Lab Sample ID:	871186
Analytical Method:	EPA 6010C	Date Received:	11/12/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71910	Analysis Date/Time	11/19/2010 21:49
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers		DL	LOD	LOQ	RL
7429-90-5	Aluminum	3490			0.081	0.081	0.24	0.24
7440-36-0	Antimony	36.9			0.16	0.16	0.54	0.54
7440-38-2	Arsenic	6.8			0.26	0.26	0.91	0.91
7440-39-3	Barium	62.1		B	0.016	0.016	0.054	0.054
7440-41-7	Beryllium	0.49			0.0081	0.0081	0.024	0.024
7440-43-9	Cadmium	0.71			0.012	0.016	0.042	0.042
7440-70-2	Calcium	42000		B	0.12	0.30	1.0	1.0
7440-50-8	Copper	99.9		B	0.12	0.12	0.40	0.40
7439-89-6	Iron	11600			0.61	0.61	2.0	2.0
7439-92-1	Lead	30.0			0.081	0.081	0.28	0.28
7439-95-4	Magnesium	2120		B	0.24	0.24	0.81	0.81
7439-96-5	Manganese	468			0.032	0.040	0.10	0.10
7782-49-2	Selenium	0.14	U	V	0.14	0.14	0.85	0.85
7440-22-4	Silver	0.080	J	V	0.034	0.034	0.11	0.11
7440-62-2	Vanadium	4.6		B	0.022	0.022	0.069	0.069
7440-66-6	Zinc	636			0.081	0.081	0.24	0.24

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-044-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	99.2	Lab Sample ID:	871194
Analytical Method:	EPA 6010C	Date Received:	11/12/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71911	Analysis Date/Time	11/22/2010 08:46
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-09-7	Potassium	713		11	11	36	36
7440-23-5	Sodium	62.5		4.0	4.0	13	13

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-044-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	99.2	Lab Sample ID:	871194
Analytical Method:	EPA 7471A	Date Received:	11/12/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72018	Analysis Date/Time	11/24/2010 10:29
Analytical Prep Batch #:	35531	Prep. Date/Time:	11/23/2010 15:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-97-6	Mercury	0.011		0.0024	0.0024	0.0080	0.0080

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-044-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	99.2	Lab Sample ID:	871194
Analytical Method:	EPA 6010C	Date Received:	11/12/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71910	Analysis Date/Time	12/03/2010 16:02
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers		DL	LOD	LOQ	RL
7782-49-2	Selenium	0.29	J	V	0.14	0.14	0.85	0.85

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-044-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	99.2	Lab Sample ID:	871194
Analytical Method:	EPA 6010C	Date Received:	11/12/2010
Dilution Factor:	5.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71910	Analysis Date/Time	11/29/2010 18:37
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers		DL	LOD	LOQ	RL
7440-36-0	Antimony	0.48	J	V	0.40	0.40	1.4	1.4
7440-47-3	Chromium	234			0.096	0.096	0.32	0.32
7440-48-4	Cobalt	25.7			0.076	0.076	0.25	0.25
7440-50-8	Copper	117			0.30	0.30	1.0	1.0
7439-92-1	Lead	27.3			0.20	0.20	0.71	0.71
7439-96-5	Manganese	520		B	0.081	0.10	0.25	0.26
7440-02-0	Nickel	23.8			0.091	0.091	0.31	0.31
7440-28-0	Thallium	0.20	U	V	0.20	0.20	0.71	0.71

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-044-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	99.2	Lab Sample ID:	871194
Analytical Method:	EPA 6010C	Date Received:	11/12/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71910	Analysis Date/Time	11/19/2010 22:58
Analytical Prep Batch #:	35475	Prep. Date/Time:	11/18/2010 17:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7429-90-5	Aluminum	3050		0.081	0.081	0.24	0.24
7440-38-2	Arsenic	6.4		0.26	0.26	0.91	0.91
7440-39-3	Barium	44.4	B	0.016	0.016	0.054	0.054
7440-41-7	Beryllium	0.37		0.0081	0.0081	0.024	0.024
7440-43-9	Cadmium	0.79		0.012	0.016	0.042	0.042
7440-70-2	Calcium	10400	B	0.12	0.30	1.0	1.0
7439-89-6	Iron	11000		0.60	0.60	2.0	2.0
7439-95-4	Magnesium	1230	B	0.24	0.24	0.81	0.81
7440-22-4	Silver	0.084	J V	0.034	0.034	0.11	0.11
7440-62-2	Vanadium	5.8	B	0.022	0.022	0.069	0.069
7440-66-6	Zinc	269		0.081	0.081	0.24	0.24

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

ICV

2A-1

INITIAL CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71910 Lab Sample ID: 874986

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Aluminum	11/19/10	10:31	12000	11500	96	90	110	P
Antimony	11/19/10	10:31	500.0	501.0	100	90	110	P
Arsenic	11/19/10	10:31	2000	1980	99	90	110	P
Barium	11/19/10	10:31	2000	2090	104	90	110	P
Beryllium	11/19/10	10:31	50.00	52.60	105	90	110	P
Cadmium	11/19/10	10:31	50.00	50.00	100	90	110	P
Calcium	11/19/10	10:31	10000	9950	100	90	110	P
Chromium	11/19/10	10:31	200.0	179.0	90	90	110	P
Cobalt	11/19/10	10:31	500.0	462.0	92	90	110	P
Copper	11/19/10	10:31	250.0	251.0	100	90	110	P
Iron	11/19/10	10:31	5000	4780	96	90	110	P
Lead	11/19/10	10:31	500.0	512.0	102	90	110	P
Magnesium	11/19/10	10:31	10000	10300	103	90	110	P
Manganese	11/19/10	10:31	500.0	488.0	98	90	110	P
Nickel	11/19/10	10:31	500.0	473.0	95	90	110	P
Selenium	11/19/10	10:31	2000	2010	100	90	110	P
Silver	11/19/10	10:31	120.0	117.0	98	90	110	P
Thallium	11/19/10	10:31	2000	2100	105	90	110	P
Vanadium	11/19/10	10:31	500.0	483.0	97	90	110	P
Zinc	11/19/10	10:31	500.0	473.0	95	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

ICV

2A-1

INITIAL CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

ICV

2A-1

INITIAL CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71910 Lab Sample ID: 877034

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Aluminum	11/29/10	15:08	12000	12500	104	90	110	P
Antimony	11/29/10	15:08	500.0	516.0	103	90	110	P
Arsenic	11/29/10	15:08	2000	2130	106	90	110	P
Barium	11/29/10	15:08	2000	2110	106	90	110	P
Beryllium	11/29/10	15:08	50.00	51.70	103	90	110	P
Cadmium	11/29/10	15:08	50.00	49.90	100	90	110	P
Calcium	11/29/10	15:08	10000	10500	105	90	110	P
Chromium	11/29/10	15:08	200.0	199.0	100	90	110	P
Cobalt	11/29/10	15:08	500.0	459.0	92	90	110	P
Copper	11/29/10	15:08	250.0	257.0	103	90	110	P
Iron	11/29/10	15:08	5000	5230	105	90	110	P
Lead	11/29/10	15:08	500.0	527.0	105	90	110	P
Magnesium	11/29/10	15:08	10000	9920	99	90	110	P
Manganese	11/29/10	15:08	500.0	531.0	106	90	110	P
Nickel	11/29/10	15:08	500.0	514.0	103	90	110	P
Selenium	11/29/10	15:08	2000	2210	110	90	110	P
Silver	11/29/10	15:08	120.0	116.0	97	90	110	P
Thallium	11/29/10	15:08	2000	1830	92	90	110	P
Vanadium	11/29/10	15:08	500.0	527.0	105	90	110	P
Zinc	11/29/10	15:08	500.0	534.0	107	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

ICV

2A-1

INITIAL CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

ICV

2A-1

INITIAL CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71910 Lab Sample ID: 878859

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Calcium	12/3/10	14:04	10000	10100	101	90	110	P
Selenium	12/3/10	14:04	2000	2120	106	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

ICV

2A-1

INITIAL CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71911 Lab Sample ID: 874795

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Potassium	11/22/10	07:28	100000	105000	105	90	110	P
Sodium	11/22/10	07:28	100000	101000	101	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

ICV

2A-1

INITIAL CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 72018 Lab Sample ID: 875791

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Mercury	11/24/10 09:35	3.00	2.93	98	90	110	CV

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71910 Lab Sample ID: 874993

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M	
Aluminum	11/19/10	18:33	5000	5110	102	90	110	P	
Antimony	11/19/10	18:33	5000	5140	103	90	110	P	
Arsenic	11/19/10	18:33	5000	4820	96	90	110	P	
Barium	11/19/10	18:33	5000	5230	105	90	110	P	
Beryllium	11/19/10	18:33	500.0	479.0	96	90	110	P	
Cadmium	11/19/10	18:33	500.0	468.0	94	90	110	P	
Calcium	11/19/10	18:33	5000	6450	129	90	110	P	FAIL
Chromium	11/19/10	18:33	5000	4370	87	90	110	P	FAIL
Cobalt	11/19/10	18:33	5000	4360	87	90	110	P	FAIL
Copper	11/19/10	18:33	5000	5170	103	90	110	P	
Iron	11/19/10	18:33	5000	4760	95	90	110	P	
Lead	11/19/10	18:33	5000	5280	106	90	110	P	
Magnesium	11/19/10	18:33	5000	5880	118	90	110	P	FAIL
Manganese	11/19/10	18:33	5000	4590	92	90	110	P	
Nickel	11/19/10	18:33	5000	5420	108	90	110	P	
Selenium	11/19/10	18:33	5000	4900	98	90	110	P	
Silver	11/19/10	18:33	500.0	482.0	96	90	110	P	
Thallium	11/19/10	18:33	5000	5080	102	90	110	P	
Vanadium	11/19/10	18:33	5000	4930	99	90	110	P	
Zinc	11/19/10	18:33	5000	4900	98	90	110	P	

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71910 Lab Sample ID: 874994

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M	
Aluminum	11/19/10	21:10	5000	4530	91	90	110	P	
Antimony	11/19/10	21:10	5000	5310	106	90	110	P	
Arsenic	11/19/10	21:10	5000	4870	97	90	110	P	
Barium	11/19/10	21:10	5000	5220	104	90	110	P	
Beryllium	11/19/10	21:10	500.0	463.0	93	90	110	P	
Cadmium	11/19/10	21:10	500.0	478.0	96	90	110	P	
Calcium	11/19/10	21:10	5000	5140	103	90	110	P	
Chromium	11/19/10	21:10	5000	4250	85	90	110	P	FAIL
Cobalt	11/19/10	21:10	5000	4190	84	90	110	P	FAIL
Copper	11/19/10	21:10	5000	5340	107	90	110	P	
Iron	11/19/10	21:10	5000	5350	107	90	110	P	
Lead	11/19/10	21:10	5000	5410	108	90	110	P	
Magnesium	11/19/10	21:10	5000	5250	105	90	110	P	
Manganese	11/19/10	21:10	5000	4480	90	90	110	P	
Nickel	11/19/10	21:10	5000	5650	113	90	110	P	FAIL
Selenium	11/19/10	21:10	5000	4870	97	90	110	P	
Silver	11/19/10	21:10	500.0	493.0	99	90	110	P	
Thallium	11/19/10	21:10	5000	5120	102	90	110	P	
Vanadium	11/19/10	21:10	5000	5040	101	90	110	P	
Zinc	11/19/10	21:10	5000	5080	102	90	110	P	

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71910 Lab Sample ID: 874996

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M	
Aluminum	11/19/10	22:30	5000	4950	99	90	110	P	
Antimony	11/19/10	22:30	5000	5290	106	90	110	P	
Arsenic	11/19/10	22:30	5000	4850	97	90	110	P	
Barium	11/19/10	22:30	5000	5230	105	90	110	P	
Beryllium	11/19/10	22:30	500.0	459.0	92	90	110	P	
Cadmium	11/19/10	22:30	500.0	476.0	95	90	110	P	
Calcium	11/19/10	22:30	5000	5140	103	90	110	P	
Chromium	11/19/10	22:30	5000	4220	84	90	110	P	FAIL
Cobalt	11/19/10	22:30	5000	4150	83	90	110	P	FAIL
Copper	11/19/10	22:30	5000	5280	106	90	110	P	
Iron	11/19/10	22:30	5000	4770	95	90	110	P	
Lead	11/19/10	22:30	5000	5430	109	90	110	P	
Magnesium	11/19/10	22:30	5000	5120	102	90	110	P	
Manganese	11/19/10	22:30	5000	4730	95	90	110	P	
Nickel	11/19/10	22:30	5000	5570	111	90	110	P	FAIL
Selenium	11/19/10	22:30	5000	5060	101	90	110	P	
Silver	11/19/10	22:30	500.0	491.0	98	90	110	P	
Thallium	11/19/10	22:30	5000	5070	101	90	110	P	
Vanadium	11/19/10	22:30	5000	5000	100	90	110	P	
Zinc	11/19/10	22:30	5000	4970	99	90	110	P	

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71910 Lab Sample ID: 875077

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M	
Aluminum	11/19/10	19:52	5000	4970	99	90	110	P	
Antimony	11/19/10	19:52	5000	5300	106	90	110	P	
Arsenic	11/19/10	19:52	5000	4860	97	90	110	P	
Barium	11/19/10	19:52	5000	5290	106	90	110	P	
Beryllium	11/19/10	19:52	500.0	471.0	94	90	110	P	
Cadmium	11/19/10	19:52	500.0	473.0	95	90	110	P	
Calcium	11/19/10	19:52	5000	5940	119	90	110	P	FAIL
Chromium	11/19/10	19:52	5000	4310	86	90	110	P	FAIL
Cobalt	11/19/10	19:52	5000	4270	85	90	110	P	FAIL
Copper	11/19/10	19:52	5000	5280	106	90	110	P	
Iron	11/19/10	19:52	5000	4480	90	90	110	P	
Lead	11/19/10	19:52	5000	5390	108	90	110	P	
Magnesium	11/19/10	19:52	5000	5700	114	90	110	P	FAIL
Manganese	11/19/10	19:52	5000	4520	90	90	110	P	
Nickel	11/19/10	19:52	5000	5570	111	90	110	P	FAIL
Selenium	11/19/10	19:52	5000	4950	99	90	110	P	
Silver	11/19/10	19:52	500.0	487.0	97	90	110	P	
Thallium	11/19/10	19:52	5000	4860	97	90	110	P	
Vanadium	11/19/10	19:52	5000	5000	100	90	110	P	
Zinc	11/19/10	19:52	5000	5020	100	90	110	P	

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71910 Lab Sample ID: 875079

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M	
Aluminum	11/19/10	18:39	500.0	516.0	103	90	110	P	
Antimony	11/19/10	18:39	500.0	534.0	107	90	110	P	
Arsenic	11/19/10	18:39	500.0	475.0	95	90	110	P	
Barium	11/19/10	18:39	500.0	460.0	92	90	110	P	
Beryllium	11/19/10	18:39	50.00	53.00	106	90	110	P	
Cadmium	11/19/10	18:39	50.00	52.70	105	90	110	P	
Calcium	11/19/10	18:39	500.0	620.0	124	90	110	P	FAIL
Chromium	11/19/10	18:39	500.0	463.0	93	90	110	P	
Cobalt	11/19/10	18:39	500.0	558.0	112	90	110	P	FAIL
Copper	11/19/10	18:39	500.0	532.0	106	90	110	P	
Iron	11/19/10	18:39	500.0	499.0	100	90	110	P	
Lead	11/19/10	18:39	500.0	480.0	96	90	110	P	
Magnesium	11/19/10	18:39	500.0	544.0	109	90	110	P	
Manganese	11/19/10	18:39	500.0	469.0	94	90	110	P	
Nickel	11/19/10	18:39	500.0	499.0	100	90	110	P	
Selenium	11/19/10	18:39	500.0	500.0	100	90	110	P	
Silver	11/19/10	18:39	50.00	52.40	105	90	110	P	
Thallium	11/19/10	18:39	500.0	533.0	107	90	110	P	
Vanadium	11/19/10	18:39	500.0	505.0	101	90	110	P	
Zinc	11/19/10	18:39	500.0	474.0	95	90	110	P	

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71910 Lab Sample ID: 875081

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M	
Aluminum	11/19/10	19:57	500.0	525.0	105	90	110	P	
Antimony	11/19/10	19:57	500.0	547.0	109	90	110	P	
Arsenic	11/19/10	19:57	500.0	481.0	96	90	110	P	
Barium	11/19/10	19:57	500.0	520.0	104	90	110	P	
Beryllium	11/19/10	19:57	50.00	52.70	105	90	110	P	
Cadmium	11/19/10	19:57	50.00	53.90	108	90	110	P	
Calcium	11/19/10	19:57	500.0	663.0	133	90	110	P	FAIL
Chromium	11/19/10	19:57	500.0	460.0	92	90	110	P	
Cobalt	11/19/10	19:57	500.0	423.0	85	90	110	P	FAIL
Copper	11/19/10	19:57	500.0	541.0	108	90	110	P	
Iron	11/19/10	19:57	500.0	495.0	99	90	110	P	
Lead	11/19/10	19:57	500.0	480.0	96	90	110	P	
Magnesium	11/19/10	19:57	500.0	560.0	112	90	110	P	FAIL
Manganese	11/19/10	19:57	500.0	454.0	91	90	110	P	
Nickel	11/19/10	19:57	500.0	508.0	102	90	110	P	
Selenium	11/19/10	19:57	500.0	498.0	100	90	110	P	
Silver	11/19/10	19:57	50.00	52.60	105	90	110	P	
Thallium	11/19/10	19:57	500.0	543.0	109	90	110	P	
Vanadium	11/19/10	19:57	500.0	506.0	101	90	110	P	
Zinc	11/19/10	19:57	500.0	478.0	96	90	110	P	

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71910 Lab Sample ID: 875746

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M	
Aluminum	11/19/10	21:15	500.0	540.0	108	90	110	P	
Antimony	11/19/10	21:15	500.0	552.0	110	90	110	P	
Arsenic	11/19/10	21:15	500.0	487.0	97	90	110	P	
Barium	11/19/10	21:15	500.0	524.0	105	90	110	P	
Beryllium	11/19/10	21:15	50.00	52.50	105	90	110	P	
Cadmium	11/19/10	21:15	50.00	54.80	110	90	110	P	
Chromium	11/19/10	21:15	500.0	462.0	92	90	110	P	
Cobalt	11/19/10	21:15	500.0	580.0	116	90	110	P	FAIL
Copper	11/19/10	21:15	500.0	548.0	110	90	110	P	
Iron	11/19/10	21:15	500.0	509.0	102	90	110	P	
Lead	11/19/10	21:15	500.0	492.0	98	90	110	P	
Manganese	11/19/10	21:15	500.0	454.0	91	90	110	P	
Nickel	11/19/10	21:15	500.0	514.0	103	90	110	P	
Selenium	11/19/10	21:15	500.0	507.0	101	90	110	P	
Silver	11/19/10	21:15	50.00	52.30	105	90	110	P	
Thallium	11/19/10	21:15	500.0	552.0	110	90	110	P	
Vanadium	11/19/10	21:15	500.0	509.0	102	90	110	P	
Zinc	11/19/10	21:15	500.0	485.0	97	90	110	P	

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71910 Lab Sample ID: 875748

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M	
Aluminum	11/19/10	22:36	500.0	529.0	106	90	110	P	
Antimony	11/19/10	22:36	500.0	543.0	109	90	110	P	
Arsenic	11/19/10	22:36	500.0	472.0	94	90	110	P	
Barium	11/19/10	22:36	500.0	448.0	90	90	110	P	
Beryllium	11/19/10	22:36	50.00	51.30	103	90	110	P	
Cadmium	11/19/10	22:36	50.00	53.20	106	90	110	P	
Chromium	11/19/10	22:36	500.0	453.0	91	90	110	P	
Cobalt	11/19/10	22:36	500.0	567.0	113	90	110	P	FAIL
Copper	11/19/10	22:36	500.0	537.0	107	90	110	P	
Iron	11/19/10	22:36	500.0	510.0	102	90	110	P	
Lead	11/19/10	22:36	500.0	484.0	97	90	110	P	
Manganese	11/19/10	22:36	500.0	477.0	95	90	110	P	
Nickel	11/19/10	22:36	500.0	502.0	100	90	110	P	
Selenium	11/19/10	22:36	500.0	495.0	99	90	110	P	
Silver	11/19/10	22:36	50.00	51.70	103	90	110	P	
Thallium	11/19/10	22:36	500.0	538.0	108	90	110	P	
Vanadium	11/19/10	22:36	500.0	498.0	100	90	110	P	
Zinc	11/19/10	22:36	500.0	474.0	95	90	110	P	

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71910 Lab Sample ID: 875750

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M	
Aluminum	11/19/10	23:55	500.0	538.0	108	90	110	P	
Antimony	11/19/10	23:55	500.0	557.0	111	90	110	P	FAIL
Arsenic	11/19/10	23:55	500.0	491.0	98	90	110	P	
Barium	11/19/10	23:55	500.0	517.0	103	90	110	P	
Beryllium	11/19/10	23:55	50.00	51.30	103	90	110	P	
Cadmium	11/19/10	23:55	50.00	55.00	110	90	110	P	
Calcium	11/19/10	23:55	500.0	545.0	109	90	110	P	
Chromium	11/19/10	23:55	500.0	469.0	94	90	110	P	
Cobalt	11/19/10	23:55	500.0	411.0	82	90	110	P	FAIL
Copper	11/19/10	23:55	500.0	554.0	111	90	110	P	FAIL
Iron	11/19/10	23:55	500.0	464.0	93	90	110	P	
Lead	11/19/10	23:55	500.0	495.0	99	90	110	P	
Magnesium	11/19/10	23:55	500.0	500.0	100	90	110	P	
Manganese	11/19/10	23:55	500.0	443.0	89	90	110	P	FAIL
Nickel	11/19/10	23:55	500.0	518.0	104	90	110	P	
Selenium	11/19/10	23:55	500.0	509.0	102	90	110	P	
Silver	11/19/10	23:55	50.00	53.40	107	90	110	P	
Thallium	11/19/10	23:55	500.0	553.0	111	90	110	P	FAIL
Vanadium	11/19/10	23:55	500.0	512.0	102	90	110	P	
Zinc	11/19/10	23:55	500.0	489.0	98	90	110	P	

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71910 Lab Sample ID: 875752

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M	
Aluminum	11/19/10	23:49	5000	5090	102	90	110	P	
Antimony	11/19/10	23:49	5000	5590	112	90	110	P	FAIL
Arsenic	11/19/10	23:49	5000	5130	103	90	110	P	
Barium	11/19/10	23:49	5000	5490	110	90	110	P	
Beryllium	11/19/10	23:49	500.0	477.0	95	90	110	P	
Cadmium	11/19/10	23:49	500.0	502.0	100	90	110	P	
Calcium	11/19/10	23:49	5000	5080	102	90	110	P	
Chromium	11/19/10	23:49	5000	4440	89	90	110	P	FAIL
Cobalt	11/19/10	23:49	5000	4340	87	90	110	P	FAIL
Copper	11/19/10	23:49	5000	5620	112	90	110	P	FAIL
Iron	11/19/10	23:49	5000	4490	90	90	110	P	
Lead	11/19/10	23:49	5000	5730	115	90	110	P	FAIL
Magnesium	11/19/10	23:49	5000	5260	105	90	110	P	
Manganese	11/19/10	23:49	5000	4630	93	90	110	P	
Nickel	11/19/10	23:49	5000	5940	119	90	110	P	FAIL
Selenium	11/19/10	23:49	5000	5280	106	90	110	P	
Silver	11/19/10	23:49	500.0	517.0	103	90	110	P	
Thallium	11/19/10	23:49	5000	4800	96	90	110	P	
Vanadium	11/19/10	23:49	5000	5300	106	90	110	P	
Zinc	11/19/10	23:49	5000	5310	106	90	110	P	

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71910 Lab Sample ID: 877041

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M	
Aluminum	11/29/10	16:44	500.0	543.0	109	90	110	P	
Antimony	11/29/10	16:44	500.0	527.0	105	90	110	P	
Arsenic	11/29/10	16:44	500.0	538.0	108	90	110	P	
Barium	11/29/10	16:44	500.0	535.0	107	90	110	P	
Beryllium	11/29/10	16:44	50.00	51.90	104	90	110	P	
Cadmium	11/29/10	16:44	50.00	51.80	104	90	110	P	
Calcium	11/29/10	16:44	500.0	502.0	100	90	110	P	
Chromium	11/29/10	16:44	500.0	522.0	104	90	110	P	
Cobalt	11/29/10	16:44	500.0	526.0	105	90	110	P	
Copper	11/29/10	16:44	500.0	543.0	109	90	110	P	
Iron	11/29/10	16:44	500.0	551.0	110	90	110	P	
Lead	11/29/10	16:44	500.0	533.0	107	90	110	P	
Magnesium	11/29/10	16:44	500.0	533.0	107	90	110	P	
Manganese	11/29/10	16:44	500.0	529.0	106	90	110	P	
Nickel	11/29/10	16:44	500.0	516.0	103	90	110	P	
Selenium	11/29/10	16:44	500.0	558.0	112	90	110	P	FAIL
Silver	11/29/10	16:44	50.00	51.40	103	90	110	P	
Thallium	11/29/10	16:44	500.0	473.0	95	90	110	P	
Vanadium	11/29/10	16:44	500.0	536.0	107	90	110	P	
Zinc	11/29/10	16:44	500.0	531.0	106	90	110	P	

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71910 Lab Sample ID: 877043

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Antimony	11/29/10	18:03	500.0	501.0	100	90	110	P
Arsenic	11/29/10	18:03	500.0	516.0	103	90	110	P
Beryllium	11/29/10	18:03	50.00	53.60	107	90	110	P
Cobalt	11/29/10	18:03	500.0	527.0	105	90	110	P
Lead	11/29/10	18:03	500.0	539.0	108	90	110	P
Magnesium	11/29/10	18:03	500.0	535.0	107	90	110	P
Manganese	11/29/10	18:03	500.0	535.0	107	90	110	P
Nickel	11/29/10	18:03	500.0	524.0	105	90	110	P
Selenium	11/29/10	18:03	500.0	538.0	108	90	110	P
Silver	11/29/10	18:03	50.00	51.00	102	90	110	P
Thallium	11/29/10	18:03	500.0	487.0	97	90	110	P
Vanadium	11/29/10	18:03	500.0	539.0	108	90	110	P
Zinc	11/29/10	18:03	500.0	536.0	107	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71910 Lab Sample ID: 877045

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Aluminum	11/29/10	19:22	500.0	536.0	107	90	110	P
Antimony	11/29/10	19:22	500.0	506.0	101	90	110	P
Arsenic	11/29/10	19:22	500.0	546.0	109	90	110	P
Barium	11/29/10	19:22	500.0	531.0	106	90	110	P
Beryllium	11/29/10	19:22	50.00	52.20	104	90	110	P
Cadmium	11/29/10	19:22	50.00	50.70	101	90	110	P
Calcium	11/29/10	19:22	500.0	495.0	99	90	110	P
Chromium	11/29/10	19:22	500.0	510.0	102	90	110	P
Cobalt	11/29/10	19:22	500.0	517.0	103	90	110	P
Copper	11/29/10	19:22	500.0	533.0	107	90	110	P
Iron	11/29/10	19:22	500.0	552.0	110	90	110	P
Lead	11/29/10	19:22	500.0	530.0	106	90	110	P
Magnesium	11/29/10	19:22	500.0	480.0	96	90	110	P
Manganese	11/29/10	19:22	500.0	526.0	105	90	110	P
Nickel	11/29/10	19:22	500.0	514.0	103	90	110	P
Selenium	11/29/10	19:22	500.0	552.0	110	90	110	P
Silver	11/29/10	19:22	50.00	51.00	102	90	110	P
Thallium	11/29/10	19:22	500.0	457.0	91	90	110	P
Vanadium	11/29/10	19:22	500.0	541.0	108	90	110	P
Zinc	11/29/10	19:22	500.0	526.0	105	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71910 Lab Sample ID: 877051

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Aluminum	11/29/10	19:16	5000	5230	105	90	110	P
Antimony	11/29/10	19:16	5000	4970	99	90	110	P
Arsenic	11/29/10	19:16	5000	5110	102	90	110	P
Barium	11/29/10	19:16	5000	5310	106	90	110	P
Beryllium	11/29/10	19:16	500.0	519.0	104	90	110	P
Cadmium	11/29/10	19:16	500.0	519.0	104	90	110	P
Calcium	11/29/10	19:16	5000	5080	102	90	110	P
Chromium	11/29/10	19:16	5000	5080	102	90	110	P
Cobalt	11/29/10	19:16	5000	5100	102	90	110	P
Copper	11/29/10	19:16	5000	5180	104	90	110	P
Iron	11/29/10	19:16	5000	5490	110	90	110	P
Lead	11/29/10	19:16	5000	5290	106	90	110	P
Magnesium	11/29/10	19:16	5000	4610	92	90	110	P
Manganese	11/29/10	19:16	5000	5290	106	90	110	P
Nickel	11/29/10	19:16	5000	5160	103	90	110	P
Selenium	11/29/10	19:16	5000	5290	106	90	110	P
Silver	11/29/10	19:16	500.0	466.0	93	90	110	P
Thallium	11/29/10	19:16	5000	4620	92	90	110	P
Vanadium	11/29/10	19:16	5000	5260	105	90	110	P
Zinc	11/29/10	19:16	5000	5180	104	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71910 Lab Sample ID: 877053

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Aluminum	11/29/10	17:58	5000	5370	107	90	110	P
Antimony	11/29/10	17:58	5000	4980	100	90	110	P
Arsenic	11/29/10	17:58	5000	5180	104	90	110	P
Beryllium	11/29/10	17:58	500.0	512.0	102	90	110	P
Cadmium	11/29/10	17:58	500.0	531.0	106	90	110	P
Calcium	11/29/10	17:58	5000	5100	102	90	110	P
Chromium	11/29/10	17:58	5000	5120	102	90	110	P
Cobalt	11/29/10	17:58	5000	5180	104	90	110	P
Copper	11/29/10	17:58	5000	5440	109	90	110	P
Iron	11/29/10	17:58	5000	5080	102	90	110	P
Lead	11/29/10	17:58	5000	5350	107	90	110	P
Magnesium	11/29/10	17:58	5000	5250	105	90	110	P
Manganese	11/29/10	17:58	5000	5330	107	90	110	P
Nickel	11/29/10	17:58	5000	5040	101	90	110	P
Selenium	11/29/10	17:58	5000	5510	110	90	110	P
Silver	11/29/10	17:58	500.0	466.0	93	90	110	P
Thallium	11/29/10	17:58	5000	4920	98	90	110	P
Vanadium	11/29/10	17:58	5000	5190	104	90	110	P
Zinc	11/29/10	17:58	5000	5160	103	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71910 Lab Sample ID: 877055

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Aluminum	11/29/10	16:39	5000	5240	105	90	110	P
Antimony	11/29/10	16:39	5000	4780	96	90	110	P
Arsenic	11/29/10	16:39	5000	4990	100	90	110	P
Barium	11/29/10	16:39	5000	5150	103	90	110	P
Beryllium	11/29/10	16:39	500.0	498.0	100	90	110	P
Cadmium	11/29/10	16:39	500.0	501.0	100	90	110	P
Calcium	11/29/10	16:39	5000	4920	98	90	110	P
Chromium	11/29/10	16:39	5000	4880	98	90	110	P
Cobalt	11/29/10	16:39	5000	4970	99	90	110	P
Copper	11/29/10	16:39	5000	5050	101	90	110	P
Iron	11/29/10	16:39	5000	5290	106	90	110	P
Lead	11/29/10	16:39	5000	5090	102	90	110	P
Magnesium	11/29/10	16:39	5000	4600	92	90	110	P
Manganese	11/29/10	16:39	5000	5120	102	90	110	P
Nickel	11/29/10	16:39	5000	5150	103	90	110	P
Selenium	11/29/10	16:39	5000	5120	102	90	110	P
Thallium	11/29/10	16:39	5000	4550	91	90	110	P
Vanadium	11/29/10	16:39	5000	5020	100	90	110	P
Zinc	11/29/10	16:39	5000	5020	100	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71910 Lab Sample ID: 878864

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Calcium	12/3/10	15:40	500.0	532.0	106	90	110	P
Selenium	12/3/10	15:40	500.0	517.0	103	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71910 Lab Sample ID: 878866

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Calcium	12/3/10	16:58	5000	5120	102	90	110	P
Selenium	12/3/10	16:58	5000	5140	103	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71910 Lab Sample ID: 878868

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Calcium	12/3/10	16:58	500.0	540.0	108	90	110	P
Selenium	12/3/10	16:58	500.0	496.0	99	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71910 Lab Sample ID: 878878

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Calcium	12/3/10	15:35	5000	5040	101	90	110	P
Selenium	12/3/10	15:35	5000	5070	101	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71911 Lab Sample ID: 874802

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Potassium	11/22/10	08:05	100000	94700	95	90	110	P
Sodium	11/22/10	08:05	100000	89700	90	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71911 Lab Sample ID: 874804

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Potassium	11/22/10	08:36	100000	104000	104	90	110	P
Sodium	11/22/10	08:36	100000	100000	100	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71911 Lab Sample ID: 874806

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Potassium	11/22/10	09:06	100000	103000	103	90	110	P
Sodium	11/22/10	09:06	100000	102000	102	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 72018 Lab Sample ID: 875795

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Mercury	11/24/10 09:57	3.00	2.69	90	80	120	CV

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 72018 Lab Sample ID: 875797

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Mercury	11/24/10	10:19	3.00	2.43	81	80	120	CV

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 72018 Lab Sample ID: 875799

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Mercury	11/24/10 10:42	3.00	2.65	88	80	120	CV

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

MRL

2B

MRL STANDARD CHECK

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71910 Lab Sample ID: 874988

ICP MRL Standard Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Aluminum	11/19/10	10:47	400.0	399.0	100	70	130	P
Antimony	11/19/10	10:47	20.00	17.10	86	70	130	P
Arsenic	11/19/10	10:47	10.00	9.33	93	70	130	P
Barium	11/19/10	10:47	10.00	10.00	100	70	130	P
Beryllium	11/19/10	10:47	4.00	4.29	107	70	130	P
Cadmium	11/19/10	10:47	5.00	5.32	106	70	130	P
Calcium	11/19/10	10:47	500.0	561.0	112	70	130	P
Chromium	11/19/10	10:47	10.00	9.03	90	70	130	P
Cobalt	11/19/10	10:47	10.00	11.30	113	70	130	P
Copper	11/19/10	10:47	10.00	10.80	108	70	130	P
Iron	11/19/10	10:47	300.0	318.0	106	70	130	P
Lead	11/19/10	10:47	10.00	8.86	89	70	130	P
Magnesium	11/19/10	10:47	500.0	497.0	99	70	130	P
Manganese	11/19/10	10:47	10.00	10.80	108	70	130	P
Nickel	11/19/10	10:47	10.00	8.67	87	70	130	P
Selenium	11/19/10	10:47	10.00	7.77	78	70	130	P
Silver	11/19/10	10:47	20.00	19.80	99	70	130	P
Thallium	11/19/10	10:47	20.00	22.80	114	70	130	P
Vanadium	11/19/10	10:47	10.00	10.00	100	70	130	P
Zinc	11/19/10	10:47	10.00	11.60	116	70	130	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
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Sample No.

MRL

2B

MRL STANDARD CHECK

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
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Sample No.

MRL

2B

MRL STANDARD CHECK

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71910 Lab Sample ID: 877036

ICP MRL Standard Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Aluminum	11/29/10	15:25	400.0	413.0	103	70	130	P
Antimony	11/29/10	15:25	20.00	14.90	74	70	130	P
Arsenic	11/29/10	15:25	10.00	11.20	112	70	130	P
Barium	11/29/10	15:25	10.00	10.80	108	70	130	P
Beryllium	11/29/10	15:25	4.00	4.33	108	70	130	P
Cadmium	11/29/10	15:25	5.00	5.11	102	70	130	P
Calcium	11/29/10	15:25	500.0	562.0	112	70	130	P
Chromium	11/29/10	15:25	10.00	9.38	94	70	130	P
Cobalt	11/29/10	15:25	10.00	11.20	112	70	130	P
Copper	11/29/10	15:25	10.00	11.80	118	70	130	P
Iron	11/29/10	15:25	300.0	286.0	95	70	130	P
Lead	11/29/10	15:25	10.00	10.10	101	70	130	P
Magnesium	11/29/10	15:25	500.0	497.0	99	70	130	P
Manganese	11/29/10	15:25	10.00	11.90	119	70	130	P
Nickel	11/29/10	15:25	10.00	11.00	110	70	130	P
Selenium	11/29/10	15:25	10.00	7.48	75	70	130	P
Silver	11/29/10	15:25	20.00	20.30	102	70	130	P
Thallium	11/29/10	15:25	20.00	22.30	112	70	130	P
Vanadium	11/29/10	15:25	10.00	9.72	97	70	130	P
Zinc	11/29/10	15:25	10.00	12.60	126	70	130	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
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Sample No.

MRL

2B

MRL STANDARD CHECK

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

MRL

2B

MRL STANDARD CHECK

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71910 Lab Sample ID: 878861

ICP MRL Standard Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Calcium	12/3/10	14:20	500.0	540.0	108	80	120	P
Selenium	12/3/10	14:20	10.00	10.90	109	80	120	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
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Sample No.

MRL

2B

MRL STANDARD CHECK

Lab Name: CT Laboratories

Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71911

Lab Sample ID: 874797

ICP MRL Standard Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Potassium	11/22/10	07:33	5000000	5280	106	80	120	P
Sodium	11/22/10	07:33	1000000	1090	109	80	120	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
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Sample No

ICB

3-1

INITIAL CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71911 Lab Sample ID: 874796

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Potassium	11/22/2010 07:30	193.0			400	P
Sodium	11/22/2010 07:30	16.00			150	P

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
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Sample No

ICB

3-1

INITIAL CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71910 Lab Sample ID: 874979

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M	
Aluminum	11/19/2010 10:36	-0.182			1.5	P	
Antimony	11/19/2010 10:36	1.43			3.0	P	
Arsenic	11/19/2010 10:36	-3.24			5.0	P	
Barium	11/19/2010 10:36	0.409			0.3	P	FAIL
Beryllium	11/19/2010 10:36	0.0200			0.15	P	
Cadmium	11/19/2010 10:36	-0.0320			0.3	P	
Calcium	11/19/2010 10:36	2.25			6.0	P	
Chromium	11/19/2010 10:36	-0.355			0.8	P	
Cobalt	11/19/2010 10:36	-0.0720			0.6	P	
Copper	11/19/2010 10:36	0.0610			2.4	P	
Iron	11/19/2010 10:36	-16.1			12	P	
Lead	11/19/2010 10:36	-1.88			1.7	P	
Magnesium	11/19/2010 10:36	5.61			5.0	P	FAIL
Manganese	11/19/2010 10:36	0.0540			0.6	P	
Nickel	11/19/2010 10:36	-1.86			0.7	P	
Selenium	11/19/2010 10:36	0.00200			2.6	P	
Silver	11/19/2010 10:36	-0.618			0.7	P	
Thallium	11/19/2010 10:36	-6.91			1.7	P	
Vanadium	11/19/2010 10:36	0.205			0.4	P	
Zinc	11/19/2010 10:36	-0.743			1.4	P	

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
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Sample No

ICB

3-1

INITIAL CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71910 Lab Sample ID: 877035

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Aluminum	11/29/2010 15:19	0.528			1.5	P
Antimony	11/29/2010 15:19	-8.22			3.0	P
Arsenic	11/29/2010 15:19	0.511			5.0	P
Barium	11/29/2010 15:19	-0.303			0.3	P
Beryllium	11/29/2010 15:19	0.116			0.15	P
Cadmium	11/29/2010 15:19	-0.0640			0.3	P
Calcium	11/29/2010 15:19	-2.53			6.0	P
Chromium	11/29/2010 15:19	-1.26			0.8	P
Cobalt	11/29/2010 15:19	0.319			0.6	P
Copper	11/29/2010 15:19	0.0260			2.4	P
Iron	11/29/2010 15:19	0			12	P
Lead	11/29/2010 15:19	-0.416			1.7	P
Magnesium	11/29/2010 15:19	2.11			5.0	P
Manganese	11/29/2010 15:19	0.521			0.6	P
Nickel	11/29/2010 15:19	-0.00700			0.7	P
Selenium	11/29/2010 15:19	-5.29			2.6	P
Silver	11/29/2010 15:19	-0.0380			0.7	P
Thallium	11/29/2010 15:19	0.188			1.7	P
Vanadium	11/29/2010 15:19	-1.10			0.4	P
Zinc	11/29/2010 15:19	-0.476			1.4	P

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
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Sample No

ICB

3-1

INITIAL CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71910 Lab Sample ID: 878860

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M	
Calcium	12/03/2010 14:15	25.40			6.0	P	FAIL
Selenium	12/03/2010 14:15	-0.384			2.6	P	

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
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Sample No

ICB

3-1

INITIAL CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 72018 Lab Sample ID: 875792

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Mercury	11/24/2010 09:37	0	U	0.06	0.06	CV

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
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Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71911 Lab Sample ID: 874803

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Potassium	11/22/2010 08:08	125.0			400	P
Sodium	11/22/2010 08:08	-16.0			0.15	P

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
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Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71911 Lab Sample ID: 874805

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Potassium	11/22/2010 08:38	110.0			400	P
Sodium	11/22/2010 08:38	-19.0			150	P

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
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Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71911 Lab Sample ID: 874807

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Potassium	11/22/2010 09:09	100.0			400	P
Sodium	11/22/2010 09:09	-16.0			150	P

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71910 Lab Sample ID: 875080

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M	
Aluminum	11/19/2010 18:49	-9.51			1.5	P	
Antimony	11/19/2010 18:49	-0.671			3.0	P	
Arsenic	11/19/2010 18:49	-1.98			5.0	P	
Barium	11/19/2010 18:49	0.191			0.3	P	
Beryllium	11/19/2010 18:49	-0.0130			0.15	P	
Cadmium	11/19/2010 18:49	-0.126			0.3	P	
Calcium	11/19/2010 18:49	243.0			6.0	P	FAIL
Chromium	11/19/2010 18:49	-0.550			0.8	P	
Cobalt	11/19/2010 18:49	-0.340			0.6	P	
Copper	11/19/2010 18:49	5.45			2.4	P	FAIL
Iron	11/19/2010 18:49	-31.5			12	P	
Lead	11/19/2010 18:49	-4.68			1.7	P	
Magnesium	11/19/2010 18:49	109.0			5.0	P	FAIL
Manganese	11/19/2010 18:49	0.192			0.6	P	
Nickel	11/19/2010 18:49	-1.71			0.7	P	
Selenium	11/19/2010 18:49	-5.80			2.6	P	
Silver	11/19/2010 18:49	-0.175			0.7	P	
Thallium	11/19/2010 18:49	-0.105			1.7	P	
Vanadium	11/19/2010 18:49	0.425			0.4	P	FAIL
Zinc	11/19/2010 18:49	-0.529			1.4	P	

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
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Sample No

3-2

CCB

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71910 Lab Sample ID: 875082

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M	
Aluminum	11/19/2010 20:07	-8.29			1.5	P	
Antimony	11/19/2010 20:07	0.197			3.0	P	
Arsenic	11/19/2010 20:07	-10.6			5.0	P	
Barium	11/19/2010 20:07	0.778			0.3	P	FAIL
Beryllium	11/19/2010 20:07	-0.0880			0.15	P	
Cadmium	11/19/2010 20:07	-0.140			0.3	P	
Chromium	11/19/2010 20:07	-0.216			0.8	P	
Cobalt	11/19/2010 20:07	0.105			0.6	P	
Copper	11/19/2010 20:07	5.61			2.4	P	FAIL
Iron	11/19/2010 20:07	-30.3			12	P	
Lead	11/19/2010 20:07	-2.91			1.7	P	
Manganese	11/19/2010 20:07	-0.0990			0.6	P	
Nickel	11/19/2010 20:07	-1.78			0.7	P	
Selenium	11/19/2010 20:07	0.204			2.6	P	
Silver	11/19/2010 20:07	-0.00900			0.7	P	
Thallium	11/19/2010 20:07	2.94			1.7	P	FAIL
Vanadium	11/19/2010 20:07	-0.146			0.4	P	
Zinc	11/19/2010 20:07	-0.459			1.4	P	

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

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Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71910 Lab Sample ID: 875747

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M	
Aluminum	11/19/2010 21:26	-7.52			1.5	P	
Antimony	11/19/2010 21:26	-1.19			3.0	P	
Arsenic	11/19/2010 21:26	-4.14			5.0	P	
Barium	11/19/2010 21:26	0.666			0.3	P	FAIL
Beryllium	11/19/2010 21:26	-0.0260			0.15	P	
Cadmium	11/19/2010 21:26	-0.0560			0.3	P	
Chromium	11/19/2010 21:26	-0.487			0.8	P	
Cobalt	11/19/2010 21:26	0.131			0.6	P	
Copper	11/19/2010 21:26	5.27			2.4	P	FAIL
Iron	11/19/2010 21:26	-30.0			12	P	
Lead	11/19/2010 21:26	-1.83			1.7	P	
Manganese	11/19/2010 21:26	0.186			0.6	P	
Nickel	11/19/2010 21:26	-2.23			0.7	P	
Selenium	11/19/2010 21:26	0.215			2.6	P	
Silver	11/19/2010 21:26	0.372			0.7	P	
Thallium	11/19/2010 21:26	-0.586			1.7	P	
Vanadium	11/19/2010 21:26	-1.20			0.4	P	
Zinc	11/19/2010 21:26	-0.581			1.4	P	

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
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Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71910 Lab Sample ID: 875749

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M	
Aluminum	11/19/2010 22:46	-6.21			1.5	P	
Antimony	11/19/2010 22:46	-0.673			3.0	P	
Arsenic	11/19/2010 22:46	2.60			5.0	P	
Barium	11/19/2010 22:46	0.606			0.3	P	FAIL
Beryllium	11/19/2010 22:46	-0.0850			0.15	P	
Cadmium	11/19/2010 22:46	0.0890			0.3	P	
Calcium	11/19/2010 22:46	244.0			6.0	P	FAIL
Chromium	11/19/2010 22:46	-0.776			0.8	P	
Cobalt	11/19/2010 22:46	0.259			0.6	P	
Copper	11/19/2010 22:46	5.44			2.4	P	FAIL
Iron	11/19/2010 22:46	-25.8			12	P	
Lead	11/19/2010 22:46	-2.40			1.7	P	
Magnesium	11/19/2010 22:46	108.0			5.0	P	FAIL
Manganese	11/19/2010 22:46	0.286			0.6	P	
Nickel	11/19/2010 22:46	-1.76			0.7	P	
Selenium	11/19/2010 22:46	2.94			2.6	P	FAIL
Silver	11/19/2010 22:46	-0.159			0.7	P	
Thallium	11/19/2010 22:46	2.93			1.7	P	FAIL
Vanadium	11/19/2010 22:46	0.878			0.4	P	FAIL
Zinc	11/19/2010 22:46	-0.188			1.4	P	

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less.

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Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71910 Lab Sample ID: 875751

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M	
Aluminum	11/20/2010 00:05	-10.3			1.5	P	
Antimony	11/20/2010 00:05	-1.17			3.0	P	
Arsenic	11/20/2010 00:05	-3.38			5.0	P	
Barium	11/20/2010 00:05	-0.0390			0.3	P	
Beryllium	11/20/2010 00:05	0.00700			0.15	P	
Cadmium	11/20/2010 00:05	-0.0740			0.3	P	
Calcium	11/20/2010 00:05	-27.2			6.0	P	
Chromium	11/20/2010 00:05	-0.502			0.8	P	
Cobalt	11/20/2010 00:05	-0.316			0.6	P	
Copper	11/20/2010 00:05	-0.126			2.4	P	
Iron	11/20/2010 00:05	-35.1			12	P	
Lead	11/20/2010 00:05	-1.67			1.7	P	
Magnesium	11/20/2010 00:05	-4.20			5.0	P	
Manganese	11/20/2010 00:05	-0.220			0.6	P	
Nickel	11/20/2010 00:05	-2.08			0.7	P	
Selenium	11/20/2010 00:05	7.75			2.6	P	FAIL
Silver	11/20/2010 00:05	-0.0900			0.7	P	
Thallium	11/20/2010 00:05	-6.77			1.7	P	
Vanadium	11/20/2010 00:05	0.881			0.4	P	FAIL
Zinc	11/20/2010 00:05	-1.01			1.4	P	

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

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Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71910 Lab Sample ID: 877042

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Aluminum	11/29/2010 16:55	0.113			1.5	P
Antimony	11/29/2010 16:55	-7.04			3.0	P
Arsenic	11/29/2010 16:55	-5.06			5.0	P
Barium	11/29/2010 16:55	0.0640			0.3	P
Beryllium	11/29/2010 16:55	0.0450			0.15	P
Cadmium	11/29/2010 16:55	0.0210			0.3	P
Calcium	11/29/2010 16:55	-3.37			6.0	P
Chromium	11/29/2010 16:55	-0.749			0.8	P
Cobalt	11/29/2010 16:55	0.167			0.6	P
Copper	11/29/2010 16:55	-0.194			2.4	P
Iron	11/29/2010 16:55	0			12	P
Lead	11/29/2010 16:55	-0.606			1.7	P
Magnesium	11/29/2010 16:55	0.657			5.0	P
Manganese	11/29/2010 16:55	0.469			0.6	P
Nickel	11/29/2010 16:55	-0.471			0.7	P
Selenium	11/29/2010 16:55	-6.57			2.6	P
Silver	11/29/2010 16:55	0.360			0.7	P
Thallium	11/29/2010 16:55	-3.03			1.7	P
Vanadium	11/29/2010 16:55	-0.749			0.4	P
Zinc	11/29/2010 16:55	-0.685			1.4	P

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
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Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71910 Lab Sample ID: 877044

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M	
Aluminum	11/29/2010 18:14	-6.72			1.5	P	
Antimony	11/29/2010 18:14	-9.73			3.0	P	
Arsenic	11/29/2010 18:14	-5.61			5.0	P	
Barium	11/29/2010 18:14	-0.382			0.3	P	
Beryllium	11/29/2010 18:14	0.0760			0.15	P	
Cadmium	11/29/2010 18:14	-0.0920			0.3	P	
Calcium	11/29/2010 18:14	-1.98			6.0	P	
Chromium	11/29/2010 18:14	-1.38			0.8	P	
Cobalt	11/29/2010 18:14	0.343			0.6	P	
Copper	11/29/2010 18:14	0.358			2.4	P	
Iron	11/29/2010 18:14	0			12	P	
Lead	11/29/2010 18:14	0.0130			1.7	P	
Magnesium	11/29/2010 18:14	0.961			5.0	P	
Manganese	11/29/2010 18:14	0.724			0.6	P	FAIL
Nickel	11/29/2010 18:14	0.149			0.7	P	
Selenium	11/29/2010 18:14	-5.25			2.6	P	
Silver	11/29/2010 18:14	0.0440			0.7	P	
Thallium	11/29/2010 18:14	-2.87			1.7	P	
Vanadium	11/29/2010 18:14	-1.82			0.4	P	
Zinc	11/29/2010 18:14	-0.616			1.4	P	

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
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Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71910 Lab Sample ID: 877046

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M	
Aluminum	11/29/2010 19:32	-5.18			1.5	P	
Antimony	11/29/2010 19:32	-8.16			3.0	P	
Arsenic	11/29/2010 19:32	-7.37			5.0	P	
Barium	11/29/2010 19:32	-0.228			0.3	P	
Beryllium	11/29/2010 19:32	0.0430			0.15	P	
Cadmium	11/29/2010 19:32	-0.0300			0.3	P	
Calcium	11/29/2010 19:32	-2.20			6.0	P	
Chromium	11/29/2010 19:32	-1.24			0.8	P	
Cobalt	11/29/2010 19:32	0.0680			0.6	P	
Copper	11/29/2010 19:32	-1.43			2.4	P	
Iron	11/29/2010 19:32	0			12	P	
Lead	11/29/2010 19:32	0.471			1.7	P	
Magnesium	11/29/2010 19:32	0.906			5.0	P	
Manganese	11/29/2010 19:32	0.685			0.6	P	FAIL
Nickel	11/29/2010 19:32	-0.306			0.7	P	
Selenium	11/29/2010 19:32	6.76			2.6	P	FAIL
Silver	11/29/2010 19:32	0.331			0.7	P	
Thallium	11/29/2010 19:32	-3.33			1.7	P	
Vanadium	11/29/2010 19:32	-1.65			0.4	P	
Zinc	11/29/2010 19:32	-0.581			1.4	P	

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

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Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71910 Lab Sample ID: 878865

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M	
Calcium	12/03/2010 15:50	6.91			6.0	P	FAIL
Selenium	12/03/2010 15:50	-6.35			2.6	P	

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
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Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71910 Lab Sample ID: 878867

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M	
Calcium	12/03/2010 17:08	10.50			6.0	P	FAIL
Selenium	12/03/2010 17:08	-4.51			2.6	P	

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
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Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 72018 Lab Sample ID: 875796

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Mercury	11/24/2010 09:59	0	U	0.06	0.06	CV

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
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Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 72018 Lab Sample ID: 875798

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Mercury	11/24/2010 10:21	0	U	0.06	0.06	CV

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

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Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 72018 Lab Sample ID: 875800

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Mercury	11/24/2010 10:44	0	U	0.06	0.06	CV

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

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Sample No

MB

3-3

METHOD BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71910 Lab Sample ID: 873322

Analytical Prep Batch # 35475 Preparation Date/Time: 11/18/2010 17:30

Concentration Units: mg/kg

Analysis Type: ReRun Re-Analysis #1

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Calcium	11/29/2010 15:53	0.0036	U	0.15	0.25	P
Magnesium	11/29/2010 15:53	0.036	U	0.12	0.20	P

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Thallium	11/29/2010 15:53	0	U	0.04	0.07	P

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
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Sample No

MB

3-3

METHOD BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71910 Lab Sample ID: 873322

Analytical Prep Batch # 35475 Preparation Date/Time: 11/18/2010 17:30

Concentration Units: mg/kg

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M	
Aluminum	11/19/2010 20:13	1.2		0.04	0.06	P	FAIL
Antimony	11/19/2010 20:13	0	U	0.08	0.135	P	
Arsenic	11/19/2010 20:13	0	U	0.13	0.225	P	
Barium	11/19/2010 20:13	0.0051	U	0.008	0.0135	P	
Beryllium	11/19/2010 20:13	0	U	0.004	0.060	P	
Cadmium	11/19/2010 20:13	0.00093	U	0.006	0.0105	P	
Chromium	11/19/2010 20:13	0.00045	U	0.019	0.0315	P	
Cobalt	11/19/2010 20:13	0	U	0.015	0.0245	P	
Copper	11/19/2010 20:13	0.0019	U	0.06	0.10	P	
Iron	11/19/2010 20:13	1.9		0.3	0.5	P	FAIL
Lead	11/19/2010 20:13	0	U	0.04	0.07	P	
Manganese	11/19/2010 20:13	0.11		0.016	0.025	P	FAIL
Nickel	11/19/2010 20:13	0	U	0.018	0.0305	P	
Selenium	11/19/2010 20:13	0	U	0.07	0.21	P	
Silver	11/19/2010 20:13	0.015	U	0.017	0.028	P	
Vanadium	11/19/2010 20:13	0.033		0.011	0.017	P	FAIL
Zinc	11/19/2010 20:13	0	U	0.04	0.06	P	

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
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Sample No

MB

3-3

METHOD BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71911 Lab Sample ID: 873322

Analytical Prep Batch # 35475 Preparation Date/Time: 11/18/2010 17:30

Concentration Units: mg/kg

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Potassium	11/22/2010 07:43	8.4	U	11	18	P
Sodium	11/22/2010 07:43	0	U	4	6.5	P

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
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Sample No

MB

3-3

METHOD BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71911 Lab Sample ID: 873322

Analytical Prep Batch # 35475 Preparation Date/Time: 11/18/2010 17:30

Concentration Units: mg/kg

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Potassium	11/22/2010 07:43	8.4	U	11	18	P
Sodium	11/22/2010 07:43	0	U	4	6.5	P

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

MB

3-3

METHOD BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 72018 Lab Sample ID: 874582

Analytical Prep Batch # 35531 Preparation Date/Time: 11/23/2010 15:30

Concentration Units: mg/kg

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Mercury	11/24/2010 09:42	0	U	0.0024	0.00395	CV

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
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Sample No:

4-1

ICP INTERFERENCE CHECK SAMPLE (SOL. A)

ICSA

Lab Name: CT Laboratories
Contract: USACE - LOUISVILLE-RAVENNA ORE PILES
ICP ID Number: TJA 6000
SDG No.: 82458
ICS Source: SPEX

Analytical Run #: 71911
Lab Sample ID: 874798
ICP MRL Standard Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R	Lower Limit (1)	Upper Limit (1)	M
Aluminum	11/22/2010 07:35	500000	538000	108	80	120	P
Calcium	11/22/2010 07:35	500000	493000	99	80	120	P
Iron	11/22/2010 07:35	500000	473000	95	80	120	P
Magnesium	11/22/2010 07:35	500000	458000	92	80	120	P
Potassium	11/22/2010 07:35	0	0		-275	275	P
Sodium	11/22/2010 07:35	0	0		-100	100	P

CT LABORATORIES
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Sample No:

4-1

ICP INTERFERENCE CHECK SAMPLE (SOL. A)

ICSA

Lab Name: CT Laboratories
Contract: USACE - LOUISVILLE-RAVENNA ORE PILES
ICP ID Number: TJA 6000
SDG No.: 82458
ICS Source: SPEX

Analytical Run #: 71910
Lab Sample ID: 874989
ICP MRL Standard Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R	Lower Limit (1)	Upper Limit (1)	M
Aluminum	11/19/2010 10:52	500000	447000	89	80	120	P
Antimony	11/19/2010 10:52	0	-0.100		-3.2	3.2	P
Arsenic	11/19/2010 10:52	0	-0.303		-5.2	5.2	P
Barium	11/19/2010 10:52	0	-0.0490		-0.32	0.32	P
Beryllium	11/19/2010 10:52	0	0.0510		-0.16	0.16	P
Cadmium	11/19/2010 10:52	0	0.0360		-0.24	0.24	P
Calcium	11/19/2010 10:52	500000	495000	99	80	120	P
Chromium	11/19/2010 10:52	0	0		-0.76	0.76	P
Cobalt	11/19/2010 10:52	0	0.0300		-0.6	0.6	P
Copper	11/19/2010 10:52	0	-0.0730		-2.4	2.4	P
Iron	11/19/2010 10:52	500000	495000	99	80	120	P
Lead	11/19/2010 10:52	0	-0.0270		-1.6	1.6	P
Magnesium	11/19/2010 10:52	500000	472000	94	80	120	P
Manganese	11/19/2010 10:52	0	0.0250		-1.6	1.6	P
Nickel	11/19/2010 10:52	0	0.00100		-0.72	0.72	P
Selenium	11/19/2010 10:52	0	0.00100		-2.8	2.8	P
Silver	11/19/2010 10:52	0	0		-0.68	0.68	P
Thallium	11/19/2010 10:52	0	0		-1.6	1.6	P
Vanadium	11/19/2010 10:52	0	0.0800		-0.44	0.44	P
Zinc	11/19/2010 10:52	0	0.0620		-1.6	1.6	P

CT LABORATORIES
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Sample No:

4-1

ICP INTERFERENCE CHECK SAMPLE (SOL. A)

ICSA

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
ICP ID Number:	TJA 6000	SDG No.:	82458
ICS Source:	SPEX		

CT LABORATORIES
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Sample No:

4-1

ICP INTERFERENCE CHECK SAMPLE (SOL. A)

ICSA

Lab Name: CT Laboratories
Contract: USACE - LOUISVILLE-RAVENNA ORE PILES
ICP ID Number: TJA 6000
SDG No.: 82458
ICS Source: SPEX

Analytical Run #: 71910
Lab Sample ID: 877037
ICP MRL Standard Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R	Lower Limit (1)	Upper Limit (1)	M
Aluminum	11/29/2010 15:30	500000	528000	106	80	120	P
Antimony	11/29/2010 15:30	0	0.00800		-3.2	3.2	P
Arsenic	11/29/2010 15:30	0	0.581		-5.2	5.2	P
Barium	11/29/2010 15:30	0	0		-0.32	0.32	P
Beryllium	11/29/2010 15:30	0	0		-0.16	0.16	P
Cadmium	11/29/2010 15:30	0	-0.00100		-0.24	0.24	P
Calcium	11/29/2010 15:30	500000	543000	109	80	120	P
Chromium	11/29/2010 15:30	0	0		-0.76	0.76	P
Cobalt	11/29/2010 15:30	0	0.00800		-0.6	0.6	P
Copper	11/29/2010 15:30	0	0.0400		-2.4	2.4	P
Iron	11/29/2010 15:30	500000	485000	97	80	120	P
Lead	11/29/2010 15:30	0	0.0510		-1.6	1.6	P
Magnesium	11/29/2010 15:30	500000	559000	112	80	120	P
Manganese	11/29/2010 15:30	0	0		-1.6	1.6	P
Nickel	11/29/2010 15:30	0	0.0110		-0.72	0.72	P
Selenium	11/29/2010 15:30	0	-0.0190		-2.8	2.8	P
Silver	11/29/2010 15:30	0	0		-0.68	0.68	P
Thallium	11/29/2010 15:30	0	0.620		-1.6	1.6	P
Vanadium	11/29/2010 15:30	0	0		-0.44	0.44	P
Zinc	11/29/2010 15:30	0	0		-1.6	1.6	P

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Sample No:

4-1

ICP INTERFERENCE CHECK SAMPLE (SOL. A)

ICSA

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
ICP ID Number:	TJA 6000	SDG No.:	82458
ICS Source:	SPEX		

CT LABORATORIES
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Sample No:

4-1

ICP INTERFERENCE CHECK SAMPLE (SOL. A)

ICSA

Lab Name: CT Laboratories
Contract: USACE - LOUISVILLE-RAVENNA ORE PILES
ICP ID Number: TJA 6000
SDG No.: 82458
ICS Source: SPEX

Analytical Run #: 71910
Lab Sample ID: 878862
ICP MRL Standard Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R	Lower Limit (1)	Upper Limit (1)	M
Aluminum	12/03/2010 14:26	500000	537000	107	80	120	P
Antimony	12/03/2010 14:26	0	0.0250		-3.2	3.2	P
Arsenic	12/03/2010 14:26	0	0.00300		-5.2	5.2	P
Barium	12/03/2010 14:26	0	0.0150		-0.32	0.32	P
Beryllium	12/03/2010 14:26	0	0.00300		-0.16	0.16	P
Cadmium	12/03/2010 14:26	0	0.0810		-0.24	0.24	P
Calcium	12/03/2010 14:26	500000	572000	114	80	120	P
Chromium	12/03/2010 14:26	0	0.00400		-0.76	0.76	P
Cobalt	12/03/2010 14:26	0	0.0370		-0.6	0.6	P
Copper	12/03/2010 14:26	0	0		-2.4	2.4	P
Iron	12/03/2010 14:26	500000	486000	97	80	120	P
Lead	12/03/2010 14:26	0	0.0160		-1.6	1.6	P
Magnesium	12/03/2010 14:26	500000	516000	103	80	120	P
Manganese	12/03/2010 14:26	0	0		-1.6	1.6	P
Nickel	12/03/2010 14:26	0	0.0270		-0.72	0.72	P
Selenium	12/03/2010 14:26	0	-0.0190		-2.8	2.8	P
Silver	12/03/2010 14:26	0	0		-0.68	0.68	P
Thallium	12/03/2010 14:26	0	0.0860		-1.6	1.6	P
Vanadium	12/03/2010 14:26	0	0.0770		-0.44	0.44	P
Zinc	12/03/2010 14:26	0	0		-1.6	1.6	P

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Sample No:

4-1

ICP INTERFERENCE CHECK SAMPLE (SOL. A)

ICSA

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
ICP ID Number:	TJA 6000	SDG No.:	82458
ICS Source:	SPEX		

CT LABORATORIES
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Sample No:

4-2

ICP INTERFERENCE CHECK SAMPLE (SOL. AB)

ICSAB

Lab Name: CT Laboratories
Contract: USACE - LOUISVILLE-RAVENNA ORE PILES
ICP ID Number: TJA 6000
SDG No.: 82458
ICS Source: SPEX, Ultra

Analytical Run #: 71911
Lab Sample ID: 874799
ICP MRL Standard Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R	Lower Limit (1)	Upper Limit (1)	M
Aluminum	11/22/2010 07:38	500000	517000	103	80	120	P
Calcium	11/22/2010 07:38	500000	480000	96	80	120	P
Iron	11/22/2010 07:38	500000	462000	92	80	120	P
Magnesium	11/22/2010 07:38	500000	442000	88	80	120	P
Potassium	11/22/2010 07:38	100000	109000	109	80	120	P
Sodium	11/22/2010 07:38	100000	97000	97	80	120	P

CT LABORATORIES
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Sample No:

4-2

ICP INTERFERENCE CHECK SAMPLE (SOL. AB)

ICSAB

Lab Name: CT Laboratories
Contract: USACE - LOUISVILLE-RAVENNA ORE PILES
ICP ID Number: TJA 6000
SDG No.: 82458
ICS Source: SPEX, Ultra

Analytical Run #: 71910
Lab Sample ID: 874990
ICP MRL Standard Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R	Lower Limit (1)	Upper Limit (1)	M
Aluminum	11/19/2010 10:59	500000	454000	91	80	120	P
Antimony	11/19/2010 10:59	500.0	425.0	85	80	120	P
Arsenic	11/19/2010 10:59	500.0	500.0	100	80	120	P
Barium	11/19/2010 10:59	500.0	586.0	117	80	120	P
Beryllium	11/19/2010 10:59	500.0	537.0	107	80	120	P
Cadmium	11/19/2010 10:59	500.0	429.0	86	80	120	P
Calcium	11/19/2010 10:59	500000	507000	101	80	120	P
Chromium	11/19/2010 10:59	500.0	419.0	84	80	120	P
Cobalt	11/19/2010 10:59	500.0	405.0	81	80	120	P
Copper	11/19/2010 10:59	500.0	466.0	93	80	120	P
Iron	11/19/2010 10:59	500000	509000	102	80	120	P
Lead	11/19/2010 10:59	500.0	445.0	89	80	120	P
Magnesium	11/19/2010 10:59	500000	484000	97	80	120	P
Manganese	11/19/2010 10:59	500.0	507.0	101	80	120	P
Nickel	11/19/2010 10:59	500.0	477.0	95	80	120	P
Selenium	11/19/2010 10:59	500.0	461.0	92	80	120	P
Silver	11/19/2010 10:59	500.0	474.0	95	80	120	P
Thallium	11/19/2010 10:59	500.0	412.0	82	80	120	P
Vanadium	11/19/2010 10:59	500.0	468.0	94	80	120	P
Zinc	11/19/2010 10:59	500.0	453.0	91	80	120	P

CT LABORATORIES
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Sample No:

4-2

ICP INTERFERENCE CHECK SAMPLE (SOL. AB)

ICSAB

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
ICP ID Number:	TJA 6000	SDG No.:	82458
ICS Source:	SPEX, Ultra		

CT LABORATORIES
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Sample No:

4-2

ICP INTERFERENCE CHECK SAMPLE (SOL. AB)

ICSAB

Lab Name: CT Laboratories
Contract: USACE - LOUISVILLE-RAVENNA ORE PILES
ICP ID Number: TJA 6000
SDG No.: 82458
ICS Source: SPEX, Ultra

Analytical Run #: 71910
Lab Sample ID: 877038
ICP MRL Standard Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R	Lower Limit (1)	Upper Limit (1)	M
Aluminum	11/29/2010 15:36	500000	547000	109	80	120	P
Antimony	11/29/2010 15:36	500.0	509.0	102	80	120	P
Arsenic	11/29/2010 15:36	500.0	519.0	104	80	120	P
Barium	11/29/2010 15:36	500.0	586.0	117	80	120	P
Beryllium	11/29/2010 15:36	500.0	562.0	112	80	120	P
Cadmium	11/29/2010 15:36	500.0	432.0	86	80	120	P
Calcium	11/29/2010 15:36	500000	558000	112	80	120	P
Chromium	11/29/2010 15:36	500.0	478.0	96	80	120	P
Cobalt	11/29/2010 15:36	500.0	461.0	92	80	120	P
Copper	11/29/2010 15:36	500.0	480.0	96	80	120	P
Iron	11/29/2010 15:36	500000	501000	100	80	120	P
Lead	11/29/2010 15:36	500.0	449.0	90	80	120	P
Magnesium	11/29/2010 15:36	500000	570000	114	80	120	P
Manganese	11/29/2010 15:36	500.0	561.0	112	80	120	P
Nickel	11/29/2010 15:36	500.0	435.0	87	80	120	P
Selenium	11/29/2010 15:36	500.0	510.0	102	80	120	P
Silver	11/29/2010 15:36	500.0	478.0	96	80	120	P
Thallium	11/29/2010 15:36	500.0	399.0	80	80	120	P
Vanadium	11/29/2010 15:36	500.0	530.0	106	80	120	P
Zinc	11/29/2010 15:36	500.0	520.0	104	80	120	P

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No:

4-2

ICP INTERFERENCE CHECK SAMPLE (SOL. AB)

ICSAB

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
ICP ID Number:	TJA 6000	SDG No.:	82458
ICS Source:	SPEX, Ultra		

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No:

4-2

ICP INTERFERENCE CHECK SAMPLE (SOL. AB)

ICSAB

Lab Name: CT Laboratories
Contract: USACE - LOUISVILLE-RAVENNA ORE PILES
ICP ID Number: TJA 6000
SDG No.: 82458
ICS Source: SPEX, Ultra

Analytical Run #: 71910
Lab Sample ID: 878863
ICP MRL Standard Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R	Lower Limit (1)	Upper Limit (1)	M
Aluminum	12/03/2010 14:32	500000	553000	111	80	120	P
Antimony	12/03/2010 14:32	500.0	580.0	116	80	120	P
Arsenic	12/03/2010 14:32	500.0	552.0	110	80	120	P
Barium	12/03/2010 14:32	500.0	595.0	119	80	120	P
Beryllium	12/03/2010 14:32	500.0	410.0	82	80	120	P
Cadmium	12/03/2010 14:32	500.0	442.0	88	80	120	P
Calcium	12/03/2010 14:32	500000	585000	117	80	120	P
Chromium	12/03/2010 14:32	500.0	474.0	95	80	120	P
Cobalt	12/03/2010 14:32	500.0	442.0	88	80	120	P
Copper	12/03/2010 14:32	500.0	509.0	102	80	120	P
Iron	12/03/2010 14:32	500000	467000	93	80	120	P
Lead	12/03/2010 14:32	500.0	480.0	96	80	120	P
Magnesium	12/03/2010 14:32	500000	504000	101	80	120	P
Manganese	12/03/2010 14:32	500.0	561.0	112	80	120	P
Nickel	12/03/2010 14:32	500.0	469.0	94	80	120	P
Selenium	12/03/2010 14:32	500.0	491.0	98	80	120	P
Silver	12/03/2010 14:32	500.0	535.0	107	80	120	P
Thallium	12/03/2010 14:32	500.0	477.0	95	80	120	P
Vanadium	12/03/2010 14:32	500.0	536.0	107	80	120	P
Zinc	12/03/2010 14:32	500.0	537.0	107	80	120	P

CT LABORATORIES
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Sample No:

4-2

ICP INTERFERENCE CHECK SAMPLE (SOL. AB)

ICSAB

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
ICP ID Number:	TJA 6000	SDG No.:	82458
ICS Source:	SPEX, Ultra		

CT LABORATORIES
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5A

SPIKE SAMPLE RECOVERY

Sample Description

DLASS-014-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82458
% Solids for Sample:	96.9	Concentration Units:	mg/kg

Analytical Run #: 71910 Sample No 873483 Parent Sample No.: 870201

Analytical Prep Batch # 35475 Analytical Preparation Date/Time: 11/18/2010 17:30

Analysis Type *Initial Analysis* Analysis Date: ----- 11/19/2010 Analysis Time: -------- 20:41

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Aluminum	80-120	14400		10200		5260	80		P	
Antimony	80-120	1.8		2.4		25.8	-2		P	*FAIL*
Arsenic	80-120	98.0		10.8		103	85		P	
Barium	80-120	196		94.4		103	99		P	
Beryllium	80-120	3.2		0.63		2.6	99		P	
Cadmium	80-120	3.3		1.1		2.6	85		P	
Iron	80-120	25500		22500		5210	58		P	*FAIL*
Lead	80-120	50.8		30.4		25.8	79		P	*FAIL*
Manganese	80-120	702		738		542	-7		P	*FAIL*
Selenium	80-120	81.0		0.87		103	78		P	*FAIL*
Silver	75-120	1.9		0.15		2.6	67		P	*FAIL*
Thallium	80-120	75.3		0.92		103	72		P	*FAIL*
Vanadium	80-120	45.0		22.8		25.8	86		P	
Zinc	80-120	67.1		47.6		25.8	76		P	*FAIL*

CT LABORATORIES
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5A

SPIKE SAMPLE RECOVERY

Sample Description

DLASS-014-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82458
% Solids for Sample:	96.9	Concentration Units:	mg/kg

Analytical Run #: 71910 Sample No 873483 Parent Sample No.: 870201

Analytical Prep Batch # 35475 Analytical Preparation Date/Time: 11/18/2010 17:30

ReRun *Re-Analysis #3* Analysis Date: ----- 11/19/2010 Analysis Time: -------- 20:41

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Copper	80-120	24.7		14.6		12.9	78		P	*FAIL*

CT LABORATORIES
delivering more than data from your environmental analyses

5A

SPIKE SAMPLE RECOVERY

Sample Description

DLASS-014-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID SDG No.: 82458

% Solids for Sample: 96.9 Concentration Units: mg/kg

Analytical Run #: 71910 Sample No 873483 Parent Sample No.: 870201

Analytical Prep Batch # 35475 Analytical Preparation Date/Time: 11/18/2010 17:30

ReRun *Re-Analysis #1* Analysis Date: ----- 11/29/2010 Analysis Time: -------- 16:21

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Calcium	80-120	8100		2880		5160	101		P	
Cobalt	80-120	33.2		10.9		25.8	86		P	
Magnesium	80-120	5420		2540		2580	112		P	

Analytical Run #: 71910 Sample No 873483 Parent Sample No.: 870201

Analytical Prep Batch # 35475 Analytical Preparation Date/Time: 11/18/2010 17:30

ReRun *Re-Analysis #2* Analysis Date: ----- 11/29/2010 Analysis Time: -------- 16:21

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Chromium	80-120	135		156		10.3	-204		P	*FAIL*
Nickel	80-120	43.6		20.6		25.8	89		P	

CT LABORATORIES
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5A

SPIKE SAMPLE RECOVERY

Sample Description

DLASS-014-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82458
% Solids for Sample:	96.9	Concentration Units:	mg/kg

Analytical Run #: 71911 Sample No 873483 Parent Sample No.: 870201

Analytical Prep Batch # 35475 Analytical Preparation Date/Time: 11/18/2010 17:30

Analysis Type *Initial Analysis* Analysis Date: ----- 11/22/2010 Analysis Time: -------- 07:55

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M
Potassium	80-120	3150		940		2500	88		P
Sodium	80-120	2120		55.5		2500	83		P

CT LABORATORIES
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5A

SPIKE SAMPLE RECOVERY

Sample Description

DLASS-014-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82458
% Solids for Sample:	96.9	Concentration Units:	mg/kg

Analytical Run #: 72018 Sample No 874585 Parent Sample No.: 870201

Analytical Prep Batch # 35531 Analytical Preparation Date/Time: 11/23/2010 15:30

Analysis Type *Initial Analysis* Analysis Date: ----- 11/24/2010 Analysis Time: -------- 09:51

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Mercury	80-120	0.11		0.040		0.089	79		CV	*FAIL*

CT LABORATORIES
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5B

POST DIGESTION SPIKE SAMPLE RECOVERY

Sample Description

DLASS-014-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82458
% Solids for Sample:	96.9	Concentration Units:	mg/L

Analytical Run #: 71911 Sample No 874801 Parent Sample No.: 870201

Analytical Prep Batch # 0 Analytical Preparation Date/Time:

Analysis Type *Initial Analysis* Analysis Date: ----- 11/22/2010 Analysis Time: -------- 08:00

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M
Potassium	75-125	134		37.6		100	96		P
Sodium	75-125	85.1		2.12	U	100	83		P

CT LABORATORIES
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5B

POST DIGESTION SPIKE SAMPLE RECOVERY

Sample Description

DLASS-014-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82458
% Solids for Sample:	96.9	Concentration Units:	ug/L

Analytical Run #: 71910 Sample No 875084 Parent Sample No.: 870201

Analytical Prep Batch # 0 Analytical Preparation Date/Time:

Analysis Type *Initial Analysis* Analysis Date: ----- 11/19/2010 Analysis Time: -------- 20:53

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Aluminum	75-125	349000.		197000.		204000	75		P	
Antimony	75-125	919.		47.4		1000	87		P	
Arsenic	75-125	3820.		209.		4000	90		P	
Barium	75-125	6040.		1830.		4000	105		P	
Beryllium	75-125	118.		12.2		100	106		P	
Cadmium	75-125	109.		20.4		100	89		P	
Iron	75-125	580000.		437000.		202000	71		P	*FAIL*
Lead	75-125	1470.		590.		1000	88		P	
Manganese	75-125	30700.		14300.		21000	78		P	
Selenium	75-125	3450.		16.9		4000	86		P	
Silver	75-125	74.7		2.84		100	72		P	*FAIL*
Thallium	75-125	3160.		7.15		4000	79		P	
Vanadium	75-125	1310.		441.		1000	87		P	
Zinc	75-125	1670.		923.		1000	75		P	

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5B

POST DIGESTION SPIKE SAMPLE RECOVERY

Sample Description: **DLASS-014-0001-SO**

Lab Name: CT Laboratories | Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID | SDG No.: 82458

% Solids for Sample: 96.9 | Concentration Units: ug/L

Analytical Run #: 71910 | Sample No 876019 | Parent Sample No.: 870201

Analytical Prep Batch # | Analytical Preparation Date/Time:

Analysis Type *Initial Analysis* | Analysis Date: ----- 11/29/2010 | Analysis Time: -------- 16:32

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Calcium	75-125	212000		22300.		200000	95		P	
Chromium	75-125	1390		1210.		400	45		P	*FAIL*
Cobalt	75-125	947		84.4		1000	86		P	
Magnesium	75-125	117000		19700.		100000	97		P	
Nickel	75-125	1030		160.		1000	87		P	

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5B

POST DIGESTION SPIKE SAMPLE RECOVERY

Sample Description

DLASS-014-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82458
% Solids for Sample:	96.9	Concentration Units:	ug/L

Analytical Run #: 71910 Sample No 877665 Parent Sample No.: 870201

Analytical Prep Batch # Analytical Preparation Date/Time:

Analysis Type *Initial Analysis* Analysis Date: ----- 11/19/2010 Analysis Time: -------- 20:53

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M
Copper	75-125	702		282.		500	84		P

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5B

POST DIGESTION SPIKE SAMPLE RECOVERY

Sample Description

DLASS-014-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82458
% Solids for Sample:	96.9	Concentration Units:	mg/kg
Analytical Run #:	72018	Sample No	875794
Parent Sample No.:	870201		
Analytical Prep Batch #	0	Analytical Preparation Date/Time:	

Analysis Type	*Initial Analysis*	Analysis Date: -----	11/24/2010	Analysis Time: --------	09:55

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Mercury	80-120	1.78		0.94		2	42		CV	*FAIL*

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5C

Sample Description

DLASS-014-0001-SO

SPIKE DUPLICATE SAMPLE RECOVERY

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID SDG No.: 82458

% Solids for Sample: 96.9 Concentration Units: mg/kg

Analytical Run #: 71910 Sample No 873484 Parent Sample No.: 873483

Analytical Prep Batch # 35475 Analytical Preparation Date/Time: 11/18/2010 17:30

Analysis Type *Initial Analysis* Analysis Date: ----- 11/19/2010 Analysis Time: -------- 20:47

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Aluminum	80-120	15300		10200		5260	97		P	
Antimony	80-120	7.5		2.4		25.8	20		P	*FAIL*
Arsenic	80-120	101		10.8		103	88		P	
Barium	80-120	205		94.4		103	107		P	
Beryllium	80-120	3.3		0.63		2.6	103		P	
Cadmium	80-120	3.4		1.1		2.6	88		P	
Iron	80-120	27200		22500		5210	90		P	
Lead	80-120	52.6		30.4		25.8	86		P	
Manganese	80-120	738		738		542	0		P	*FAIL*
Selenium	80-120	85.1		0.87		103	82		P	
Silver	75-120	2.0		0.15		2.6	71		P	*FAIL*
Thallium	80-120	77.9		0.92		103	75		P	*FAIL*
Vanadium	80-120	47.2		22.8		25.8	95		P	
Zinc	80-120	70.2		47.6		25.8	88		P	

CT LABORATORIES
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5C

SPIKE DUPLICATE SAMPLE RECOVERY

Sample Description

DLASS-014-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82458
% Solids for Sample:	96.9	Concentration Units:	mg/kg

Analytical Run #: 71910 Sample No 873484 Parent Sample No.: 873483

Analytical Prep Batch # 35475 Analytical Preparation Date/Time: 11/18/2010 17:30

ReRun *Re-Analysis #3* Analysis Date: ----- 11/19/2010 Analysis Time: -------- 20:47

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M
Copper	80-120	25.8		14.6		12.9	87		P

CT LABORATORIES
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5C

SPIKE DUPLICATE SAMPLE RECOVERY

Sample Description

DLASS-014-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID SDG No.: 82458

% Solids for Sample: 96.9 Concentration Units: mg/kg

Analytical Run #: 71910 Sample No 873484 Parent Sample No.: 873483

Analytical Prep Batch # 35475 Analytical Preparation Date/Time: 11/18/2010 17:30

ReRun *Re-Analysis #1* Analysis Date: ----- 11/29/2010 Analysis Time: -------- 16:27

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Calcium	80-120	8270		2880		5160	104		P	
Cobalt	80-120	33.4		10.9		25.8	87		P	
Magnesium	80-120	5340		2540		2580	109		P	

Analytical Run #: 71910 Sample No 873484 Parent Sample No.: 873483

Analytical Prep Batch # 35475 Analytical Preparation Date/Time: 11/18/2010 17:30

ReRun *Re-Analysis #2* Analysis Date: ----- 11/29/2010 Analysis Time: -------- 16:27

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Chromium	80-120	137		156		10.3	-184		P	*FAIL*
Nickel	80-120	43.7		20.6		25.8	90		P	

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5C

SPIKE DUPLICATE SAMPLE RECOVERY

Sample Description

DLASS-014-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82458
% Solids for Sample:	96.9	Concentration Units:	mg/kg

Analytical Run #: 71911 Sample No 873484 Parent Sample No.: 873483

Analytical Prep Batch # 35475 Analytical Preparation Date/Time: 11/18/2010 17:30

Analysis Type *Initial Analysis* Analysis Date: ----- 11/22/2010 Analysis Time: -------- 07:58

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M
Potassium	80-120	3130		940		2500	88		P
Sodium	80-120	2150		55.5		2500	84		P

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5C

SPIKE DUPLICATE SAMPLE RECOVERY

Sample Description

DLASS-014-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82458
% Solids for Sample:	96.9	Concentration Units:	mg/kg

Analytical Run #: 72018 Sample No 874586 Parent Sample No.: 874585

Analytical Prep Batch # 35531 Analytical Preparation Date/Time: 11/23/2010 15:30

Analysis Type *Initial Analysis* Analysis Date: ----- 11/24/2010 Analysis Time: -------- 09:53

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M
Mercury	80-120	0.13		0.040		0.087	103		CV

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DUPLICATES

Sample Description

DLASS-014-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID SDG No.: 82458

% Solid for Sample: 96.9 Concentration Units: mg/kg

Analytical Run #: 71910 Sample #: 873481 Parent Sample #: 870201

Analytical Prep Batch # 35475 Analytical Preparation Date/Time: 11/18/2010 17:30

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M	
Aluminum	11/19/2010	20:36	20	10200		9600		6		P	
Antimony	11/19/2010	20:36	20	2.4		1.6		40		P	*FAIL*
Arsenic	11/19/2010	20:36	20	10.8		9.8		10		P	
Barium	11/19/2010	20:36	20	94.4		89.3		6		P	
Beryllium	11/19/2010	20:36	20	0.63		0.60		5		P	
Cadmium	11/19/2010	20:36	20	1.1		0.96		9		P	
Copper	11/19/2010	20:36	20	14.6		13.7		6		P	
Iron	11/19/2010	20:36	20	22500		21600		4		P	
Lead	11/19/2010	20:36	20	30.4		30.4		0		P	
Manganese	11/19/2010	20:36	20	738		697		6		P	
Selenium	11/19/2010	20:36	20	0.87	J	1.1		19		P	
Silver	11/19/2010	20:36	20	0.15		0.11	J	25		P	*FAIL*
Vanadium	11/19/2010	20:36	20	22.8		21.4		6		P	
Zinc	11/19/2010	20:36	20	47.6		45.5		5		P	

CT LABORATORIES
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DUPLICATES

Sample Description

DLASS-014-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID SDG No.: 82458

% Solid for Sample: 96.9 Concentration Units: mg/kg

Analytical Run #: 71910 Sample #: 873481 Parent Sample #: 870201

Analytical Prep Batch # 35475 Analytical Preparation Date/Time: 11/18/2010 17:30

ReRun *Re-Analysis #1*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M
Calcium	11/29/2010	16:16	20	2880		2840		1		P
Cobalt	11/29/2010	16:16	20	10.9		10.3		6		P
Magnesium	11/29/2010	16:16	20	2540		2490		2		P

Analytical Run #: 71910 Sample #: 873481 Parent Sample #: 870201

Analytical Prep Batch # 35475 Analytical Preparation Date/Time: 11/18/2010 17:30

ReRun *Re-Analysis #2*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M
Chromium	11/29/2010	16:16	20	156		147		6		P
Nickel	11/29/2010	16:16	20	20.6		19.9		4		P

Analytical Run #: 71910 Sample #: 873481 Parent Sample #: 870201

Analytical Prep Batch # 35475 Analytical Preparation Date/Time: 11/18/2010 17:30

ReRun *Re-Analysis #3*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M

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DUPLICATES

Sample Description

DLASS-014-0001-SO

Lab Name: CT Laboratories

Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID

SDG No.: 82458

% Solid for Sample: 96.9

Concentration Units: mg/kg

Thallium	11/29/2010	16:16	20	0.92	0.37	J	87	P	*FAIL*

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DUPLICATES

Sample Description

DLASS-014-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID SDG No.: 82458

% Solid for Sample: 96.9 Concentration Units: mg/kg

Analytical Run #: 71911 Sample #: 873481 Parent Sample #: 870201

Analytical Prep Batch # 35475 Analytical Preparation Date/Time: 11/18/2010 17:30

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M
Potassium	11/22/2010	07:53	20	970		935		1		P
Sodium	11/22/2010	07:53	20	54.7		52.5		1		P

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6

DUPLICATES

Sample Description

DLASS-014-0001-SO

Lab Name: CT Laboratories

Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID

SDG No.: 82458

% Solid for Sample: 96.9

Concentration Units: mg/kg

Analytical Run #: 72018

Sample #: 874584

Parent Sample #: 870201

Analytical Prep Batch # 35531

Analytical Preparation Date/Time: 11/23/2010 15:30

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M
Mercury	11/24/2010	09:50	20	0.040		0.039		4		CV

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6A

MATRIX SPIKE DUPLICATES

Sample Description: **DLASS-014-0001-SO**

Lab Name: CT Laboratories | Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID | SDG No.: 82458

% Solid for Sample: 96.9 | Concentration Units: mg/kg

Analytical Run #: 71910 | Sample #: 873484 | Parent Sample #: 873483

Analytical Prep Batch # 17 | Analytical Preparation Date/Time: 11/19/49 1

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Matrix Spik Parent Conc. (S)	C	Matrix Spike Duplicate Conc. (D)	C	RPD	Q	M	
Aluminum	11/19/2010	20:47	20	14400		15300		6		P	
Antimony	11/19/2010	20:47	20	1.8		7.5		122		P	*FAIL*
Arsenic	11/19/2010	20:47	20	98.0		101		3		P	
Barium	11/19/2010	20:47	20	196		205		5		P	
Beryllium	11/19/2010	20:47	20	3.2		3.3		5		P	
Cadmium	11/19/2010	20:47	20	3.3		3.4		3		P	
Iron	11/19/2010	20:47	20	25500		27200		6		P	
Lead	11/19/2010	20:47	20	50.8		52.6		3		P	
Manganese	11/19/2010	20:47	20	702		738		5		P	*FAIL*
Selenium	11/19/2010	20:47	20	81.0		85.1		5		P	
Silver	11/19/2010	20:47	20	1.9		2.0		5		P	*FAIL*
Thallium	11/19/2010	20:47	20	75.3		77.9		3		P	*FAIL*
Vanadium	11/19/2010	20:47	20	45.0		47.2		5		P	
Zinc	11/19/2010	20:47	20	67.1		70.2		5		P	

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6A

MATRIX SPIKE DUPLICATES

Sample Description: **DLASS-014-0001-SO**

Lab Name: CT Laboratories | Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID | SDG No.: 82458

% Solid for Sample: 96.9 | Concentration Units: mg/kg

Analytical Run #: 71910 | Sample #: 873484 | Parent Sample #: 873483

Analytical Prep Batch # 17 | Analytical Preparation Date/Time: 11/29/50 2

ReRun *Re-Analysis #1*

Analyte	Analysis Date/Tim		RPD Limit	Matrix Spik Parent Conc. (S)	C	Matrix Spike Duplicate Conc. (D)	C	RPD	Q	M	
Calcium	11/29/2010	16:27	20	8100		8270		2		P	
Cobalt	11/29/2010	16:27	20	33.2		33.4		1		P	
Magnesium	11/29/2010	16:27	20	5420		5340		1		P	

Analytical Run #: 71910 | Sample #: 873484 | Parent Sample #: 873483

Analytical Prep Batch # 17 | Analytical Preparation Date/Time: 11/29/51 3

ReRun *Re-Analysis #2*

Analyte	Analysis Date/Tim		RPD Limit	Matrix Spik Parent Conc. (S)	C	Matrix Spike Duplicate Conc. (D)	C	RPD	Q	M	
Chromium	11/29/2010	16:27	20	135		137		1		P	*FAIL*
Nickel	11/29/2010	16:27	20	43.6		43.7		0		P	

Analytical Run #: 71910 | Sample #: 873484 | Parent Sample #: 873483

Analytical Prep Batch # 17 | Analytical Preparation Date/Time: 11/19/52 4

ReRun *Re-Analysis #3*

Analyte	Analysis Date/Tim		RPD Limit	Matrix Spik Parent Conc. (S)	C	Matrix Spike Duplicate Conc. (D)	C	RPD	Q	M	

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6A

MATRIX SPIKE DUPLICATES

Sample Description

DLASS-014-0001-SO

Lab Name: CT Laboratories

Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID

SDG No.: 82458

% Solid for Sample: 96.9

Concentration Units: mg/kg

Copper	11/19/2010	20:47	20	24.7	25.8	4	P

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6A

MATRIX SPIKE DUPLICATES

Sample Description

DLASS-014-0001-SO

Lab Name: CT Laboratories | Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID | SDG No.: 82458

% Solid for Sample: 96.9 | Concentration Units: mg/kg

Analytical Run #: 71911 | Sample #: 873484 | Parent Sample #: 873483

Analytical Prep Batch # 17 | Analytical Preparation Date/Time: 11/22/49 1

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Matrix Spik Parent Conc. (S)	C	Matrix Spike Duplicate Conc. (D)	C	RPD	Q	M
Potassium	11/22/2010	07:58	20	3150		3130		1		P
Sodium	11/22/2010	07:58	20	2120		2150		1		P

CT LABORATORIES
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6A

MATRIX SPIKE DUPLICATES

Sample Description

DLASS-014-0001-SO

Lab Name: CT Laboratories | Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID | SDG No.: 82458

% Solid for Sample: 96.9 | Concentration Units: mg/kg

Analytical Run #: 72018 | Sample #: 874586 | Parent Sample #: 874585

Analytical Prep Batch # 15 | Analytical Preparation Date/Time: 11/24/49 1

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Matrix Spik Parent Conc. (S)	C	Matrix Spike Duplicate Conc. (D)	C	RPD	Q	M
Mercury	11/24/2010	09:53	20	0.11		0.13		14		CV

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7-2

Sample No:

LABORATORY CONTROL SAMPLE - SOLID

LCS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

LCS Source: SPEX and Ultra SDG No.: 82458

Concentration Units: mg/kg

Analytical Run #: 71910 Sample No.:#: 873323

Analytical Prep Batch #: 35475 Preparation Date/Time: 11/18/2010 17:30

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	C	Spike Amount	%R	Q	M
Aluminum	11/19/2010 19:46	80-120	93.3		100	93		P
Antimony	11/19/2010 19:46	80-120	25.0		25.0	100		P
Arsenic	11/19/2010 19:46	80-120	91.3		100	91		P
Barium	11/19/2010 19:46	80-120	104		100	104		P
Beryllium	11/19/2010 19:46	80-120	2.6		2.5	104		P
Cadmium	11/19/2010 19:46	80-120	2.3		2.5	92		P
Copper	11/19/2010 19:46	80-120	11.5		12.5	92		P
Iron	11/19/2010 19:46	80-120	50.5		50.0	101		P
Lead	11/19/2010 19:46	80-120	21.0		25.0	84		P
Manganese	11/19/2010 19:46	80-120	22.0		25.0	88		P
Selenium	11/19/2010 19:46	80-120	90.0		100	90		P
Silver	11/19/2010 19:46	75-120	2.3		2.5	92		P
Thallium	11/19/2010 19:46	80-120	82.5		100	82		P
Vanadium	11/19/2010 19:46	80-120	24.1		25.0	96		P
Zinc	11/19/2010 19:46	80-120	22.2		25.0	89		P

CT LABORATORIES
delivering more than data from your environmental analyses

7-2

Sample No:

LABORATORY CONTROL SAMPLE - SOLID

LCS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

LCS Source: SPEX and Ultra SDG No.: 82458

Concentration Units: mg/kg

Analytical Run #: 71910 Sample No.:#: 873323

Analytical Prep Batch #: 35475 Preparation Date/Time: 11/18/2010 17:30

ReRun Re-Analysis #1

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	C	Spike Amount	%R	Q	M
Calcium	11/29/2010 15:47	80-120	4930		5000	99		P
Cobalt	11/29/2010 15:47	80-120	24.6		25.0	98		P
Magnesium	11/29/2010 15:47	80-120	2400		2500	96		P
Nickel	11/29/2010 15:47	80-120	22.2		25.0	89		P

Analytical Run #: 71910 Sample No.:#: 873323

Analytical Prep Batch #: 35475 Preparation Date/Time: 11/18/2010 17:30

ReRun Re-Analysis #2

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	C	Spike Amount	%R	Q	M
Chromium	11/29/2010 15:47	80-120	9.1		10.0	91		P

CT LABORATORIES
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7-2

Sample No:

LABORATORY CONTROL SAMPLE - SOLID

LCS

Lab Name: CT Laboratories Contract USACE - LOUISVILLE-RAVENNA ORE PILES

LCS Source: SPEX and Ultra SDG No.: 82458

Concentration Units: mg/kg

Analytical Run #: 71911 Sample No.:#: 873323

Analytical Prep Batch #: 35475 Preparation Date/Time: 11/18/2010 17:30

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	C	Spike Amount	%R	Q	M
Potassium	11/22/2010 07:41	80-120	2340		2500	94		P
Sodium	11/22/2010 07:41	80-120	2190		2500	88		P

CT LABORATORIES
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7-2

Sample No:

LABORATORY CONTROL SAMPLE - SOLID

LCS

Lab Name: CT Laboratories Contract USACE - LOUISVILLE-RAVENNA ORE PILES

LCS Source: SPEX and Ultra SDG No.: 82458

Concentration Units: mg/kg

Analytical Run #: 72018 Sample No.:#: 874583

Analytical Prep Batch #: 35531 Preparation Date/Time: 11/23/2010 15:30

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	C	Spike Amount	%R	Q	M
Mercury	11/24/2010 09:40	80-120	0.079		0.083	95		CV

CT LABORATORIES
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9

ICP SERIAL DILUTION

Sample Description

DLASS-014-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID SDG No.: 82458

Concentration Units: mg/L

LIMS Run #: 71911 Sample No.: 874800 Parent Sample No.: 870201

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Initial Sample Result (I)	C (I)	Serial Dilution Result (S)	C (S)	% Diff.	Q	M
Potassium	11/22/2010 07:51	37.6	U	39.55	U	5		P
Sodium	11/22/2010 07:51	2.12	U	2.005	U	5		P

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9

ICP SERIAL DILUTION

Sample Description

DLASS-014-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID SDG No.: 82458

Concentration Units: ug/L

LIMS Run #: 71910 Sample No.: 875083 Parent Sample No.: 870201

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Initial Sample Result (I)	C (I)	Serial Dilution Result (S)	C (S)	% Diff.	Q	M	
Aluminum	11/19/2010 20:30	197000.		217000		10		P	
Antimony	11/19/2010 20:30	47.4		43.45		8		P	
Arsenic	11/19/2010 20:30	209.		193		8		P	
Barium	11/19/2010 20:30	1830.		1905		4		P	
Beryllium	11/19/2010 20:30	12.2		12.8		5		P	
Cadmium	11/19/2010 20:30	20.4		23.85		17		P	*FAIL*
Copper	11/19/2010 20:30	282.		325.5		15		P	*FAIL*
Iron	11/19/2010 20:30	437000.		493500		13		P	*FAIL*
Lead	11/19/2010 20:30	590.		620		5		P	
Manganese	11/19/2010 20:30	14300.		14950		5		P	
Selenium	11/19/2010 20:30	16.9		39.6		134		P	*FAIL*
Silver	11/19/2010 20:30	2.84		2.945		4		P	
Vanadium	11/19/2010 20:30	441.		465		5		P	
Zinc	11/19/2010 20:30	923.		1060		15		P	*FAIL*

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9

ICP SERIAL DILUTION

Sample Description

DLASS-014-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID SDG No.: 82458

Concentration Units: ug/L

LIMS Run #: 71910 Sample No.: 877657 Parent Sample No.: 870201

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time		Initial Sample Result (I)	C (I)	Serial Dilution Result (S)	C (S)	% Diff.	Q	M	
Calcium	11/29/2010	16:10	22300.		21950		2		P	
Chromium	11/29/2010	16:10	1210.		1295		7		P	
Cobalt	11/29/2010	16:10	84.4		89.5		6		P	
Magnesium	11/29/2010	16:10	19700.		20500		4		P	
Nickel	11/29/2010	16:10	160.		168.5		5		P	
Thallium	11/29/2010	16:10	7.15		20.7		190		P	*FAIL*

CT LABORATORIES
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9

CVAA SERIAL DILUTION

Sample Description

DLASS-014-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID SDG No.: 82458

Concentration Units: ug/L

LIMS Run #: 72018 Sample No.: 875793 Parent Sample No.: 870201

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Initial Sample Result (I)	C (I)	Serial Dilution Result (S)	C (S)	% Diff.	Q	M	
Mercury	11/24/2010 09:48	0.94		0.8		15		CV	*FAIL*

CT LABORATORIES
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10

METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

ICP ID Number: TJA SDG No.: 82458

Matrix: SOLID

Analyte	Wavelength (nm)	Background	CRDL (ug/L)	MDL (mg/k)	M
Aluminum	167.0			0.04	P
Antimony	217.5			0.08	P
Arsenic	193.7			0.13	P
Barium	455.4			0.008	P
Beryllium	313.041			0.004	P
Cadmium	226.502			0.006	P
Calcium	393.3			0.06	P
Chromium	267.716			0.019	P
Cobalt	228.616			0.015	P
Copper	324.753			0.06	P
Iron	259.9			0.3	P
Lead	220.35			0.04	P
Magnesium	279.5			0.12	P
Manganese	257.61			0.016	P
Nickel	231.604			0.018	P
Potassium	766.491			11	P
Selenium	196.02			0.07	P
Silver	328.068			0.017	P
Sodium	330.232			4	P
Thallium	190.864			0.04	P
Vanadium	292.402			0.011	P
Zinc	213.856			0.04	P

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10

METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Matrix: SOLID

Analyte	Wavelength (nm)	Background	CRDL (ug/L)	MDL (mg/k)	M
Mercury	253.7			0.0024	CV

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11A

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

ICP ID Number: TA ICAP6000 / ICAP6500 SDG No.: 82458

Analyte	Wavelength (nm)	Interelement Correction Factors for:			
		Al	*Ca*	*Fe*	*Si (*Mg)*
Aluminum/1	167.079			0.000627 / 0.000627	
Aluminum/2	309.271				
Aluminum/3	396.152				
Antimony/1	206.833			0.000062 / -0.000014	
Antimony/2	217.581			-0.000121/-0.000060	
Arsenic/1	189.042			0.000084 / -0.000017	
Arsenic/2	193.759			0.000537 / -0.000283	
Barium/1	455.403			0.000005 / 0.000010	
Barium/2	493.409			0.000001 / 0.000007	
Beryllium/1	234.861			0.000198 / 0.000135	
Beryllium/2	313.042			0.000000 / 0.000000	
Cadmium/1	226.502			0.000104 / 0.000100	
Cadmium/2	228.802			0.000003 / 0.000000	
Calcium/1	317.933				
Calcium/2	393.366				
Calcium/3	396.847				
Chromium/1	205.552			0.000018 / 0.000003	
Chromium/2	267.716			0.000009 / 0.000010	
Cobalt/1	228.616			0.000003 / 0.000015	
Cobalt/2	238.892			-0.001663/-0.003056	
Copper/1	224.700			0.000514 / 0.000677	
Copper/2	327.396			-0.000120 / 0.000022	
Iron/1	234.349				
Iron/2	239.562				
Iron/3	259.940				

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11A

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

ICP ID Number: TA ICAP6000 / ICAP6500 SDG No.: 82458

Analyte	Wavelength (nm)	Interelement Correction Factors for:			
		Al	*Ca*	*Fe*	*Si (*Mg)*
Lead/1	216.999	0.001934 / 0.002195			
Lead/2	220.353			-0.000091/-0.000043	0.000022 / 0.000022
Magnesium/1	279.079				
Magnesium/2	279.553				
Magnesium/3	280.270				
Manganese/1	257.610			0.000028 / -0.000045	
Manganese/2	259.373				0.001354*/0.001290*
Molybdenum/1	202.030			-0.000008/-0.000005	
Molybdenum/2	204.598				
Nickel/1	221.647		-0.000025/-0.000005		
Nickel/2	231.604			0.000061 / 0.000019	
Selenium/1	196.090			-0.000095/-0.000122	
Selenium/2	206.279			0.000396 / 0.000000	
Silver/1	328.068		-0.000003/-0.000002		
Silver/2	338.289		0.000129 / 0.000219		
Thallium/1	190.856		0.000003 / -0.000056		
Thallium/2	351.924		-0.000272/-0.000272		
Tin (high [ ] li	189.989				
Tin (low [ ] li	189.989				
Vanadium/1	292.402			0.000043 / 0.000043	
Vanadium/2	292.402			0.000011 / 0.000010	
Zinc/1	206.200				
Zinc/2	213.856			0.000114 / 0.000128	

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11B

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

ICP ID Number: TA ICAP6000 / ICAP6500 SDG No.: 82458

Analyte	Wavelength (nm)	Interelement Correction Factors for:			
		Al	*Ca*	*Fe*	*Si (*Mg)*
Aluminum/4	308.215				
Calcium/1	317.933				
Iron/1	234.349				
Magnesium/4	285.213				
Potassium	766.490			-0.000546/-0.000634	
Sodium/1	330.237			--------- / 0.020000	
Sodium/2	589.592			0.000162 / 0.000385	

ICP LINEAR RANGES (QUARTERLY)

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

ICP ID Number: TJA SDG No.: 82458

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Aluminum	15.00	1000000	P
Antimony	15.00	10000	P
Arsenic	15.00	10000	P
Barium	15.00	10000	P
Beryllium	15.00	10000	P
Boron	15.00	10000	P
Cadmium	15.00	10000	P
Calcium	15.00	1000000	P
Chromium	15.00	100000	P
Cobalt	15.00	100000	P
Copper	15.00	100000	P
Iron	15.00	1000000	P
Lead	15.00	100000	P
Lithium	15.00	10000	P
Magnesium	15.00	1000000	P
Manganese	15.00	100000	P
Molybdenum	15.00	10000	P
Nickel	15.00	10000	P
Potassium	15.00	200000	P
Selenium	15.00	10000	P
Silicon	15.00	5000	P
Silver	15.00	1000	P
Sodium	15.00	200000	P
Strontium	15.00	10000	P
Thallium	15.00	10000	P
Tin	15.00	10000	P
Titanium	15.00	10000	P
Tungsten	15.00	10000	P
Vanadium	15.00	100000	P
Zinc	15.00	100000	P

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PREPARATION LOG

Lab Name: CT Laboratories Contrac USACE - LOUISVILLE-RAVENNA ORE PILES

Method: EPA 3050 SDG No.: 82458

Preparation Batch #:: 35475

CTL Sample No.	Preparation Date/Time		Weight (gram)	Volume (mL)
870200	11/18/2010	17:30	2.0	50
870201	11/18/2010	17:30	2.0	50
870202	11/18/2010	17:30	2.0	50
870203	11/18/2010	17:30	2.0	50
870204	11/18/2010	17:30	2.0	50
870207	11/18/2010	17:30	2.0	50
871184	11/18/2010	17:30	2.0	50
871186	11/18/2010	17:30	2.0	50
871187	11/18/2010	17:30	2.0	50
871188	11/18/2010	17:30	2.0	50
871189	11/18/2010	17:30	2.0	50
871190	11/18/2010	17:30	2.0	50
871191	11/18/2010	17:30	2.0	50
871192	11/18/2010	17:30	2.0	50
871193	11/18/2010	17:30	2.0	50
871194	11/18/2010	17:30	2.0	50
871195	11/18/2010	17:30	2.0	50
871196	11/18/2010	17:30	2.0	50
871197	11/18/2010	17:30	2.0	50
871198	11/18/2010	17:30	2.0	50
873481	11/18/2010	17:30	2.0	50
873483	11/18/2010	17:30	2.0	50
873484	11/18/2010	17:30	2.0	50

CT LABORATORIES
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PREPARATION LOG

Lab Name: CT Laboratories Contrac USACE - LOUISVILLE-RAVENNA ORE PILES

Method: EPA 7471A SDG No.: 82458

Preparation Batch #:: 35531

CTL Sample No.	Preparation Date/Time		Weight (gram)	Volume (mL)
870200	11/23/2010	15:30	0.60	25
870201	11/23/2010	15:30	0.60	25
870202	11/23/2010	15:30	0.57	25
870203	11/23/2010	15:30	0.57	25
870204	11/23/2010	15:30	0.56	25
870207	11/23/2010	15:30	0.57	25
871184	11/23/2010	15:30	0.55	25
871186	11/23/2010	15:30	0.55	25
871187	11/23/2010	15:30	0.57	25
871188	11/23/2010	15:30	0.58	25
871189	11/23/2010	15:30	0.58	25
871190	11/23/2010	15:30	0.55	25
871191	11/23/2010	15:30	0.59	25
871192	11/23/2010	15:30	0.56	25
871193	11/23/2010	15:30	0.55	25
871194	11/23/2010	15:30	0.55	25
871195	11/23/2010	15:30	0.57	25
871196	11/23/2010	15:30	0.59	25
871197	11/23/2010	15:30	0.57	25
871198	11/23/2010	15:30	0.57	25
874584	11/23/2010	15:30	0.59	25
874585	11/23/2010	15:30	0.58	25
874586	11/23/2010	15:30	0.59	25

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ANALYSIS RUN LOG

Lab Name: CT Laboratories

Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

Lab Code: CTL

SDG No.: 82458

Instrument ID Number: TJA

Method Number: P

Start & End Date: 11/19/2010 to 12/03/2010

Analytical Run #: 71910

Sample Number	Analysis or QC Type	DF	Analysis Date/ Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Mo	Li	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	W	V	Zn
874986	ICV	1.00	11/19 10:31	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
874979	ICB	1.00	11/19 10:36	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
874988	MRL	1.00	11/19 10:47	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
874989	ICSA	1.00	11/19 10:52	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
874990	ICSAB	1.00	11/19 10:59	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
874993	CCV	1.00	11/19 18:33	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
875079	CCV	1.00	11/19 18:39	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
875080	CCB	1.00	11/19 18:49	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
873323	LCSS	1.00	11/19 19:46	X	X	X	X	X		X				X	X	X		X						X		X			X			X	X
875077	CCV	1.00	11/19 19:52	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
875081	CCV	1.00	11/19 19:57	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
875082	CCB	1.00	11/19 20:07	X	X	X	X	X		X		X	X	X	X	X		X				X		X		X			X			X	X
873322	MBS	1.00	11/19 20:13	X	X	X	X	X		X		X	X	X	X	X		X				X		X		X						X	X
870200	Initial	2.00	11/19 20:18	X	X	X	X	X		X				X	X	X		X						X		X						X	X
870201	Initial	2.00	11/19 20:24	X	X	X	X	X		X				X	X	X		X						X		X						X	X
875083	L	5	11/19 20:30	X	X	X	X	X		X				X	X	X		X						X		X						X	X
873481	DUP	2.00	11/19 20:36	X	X	X	X	X		X				X	X	X		X						X		X						X	X
873483	MSS	2.00	11/19 20:41	X	X	X	X	X		X					X	X		X						X		X			X			X	X
873483	MSS	2.00	11/19 20:41											X																			
873484	MSDS	2.00	11/19 20:47	X	X	X	X	X		X					X	X		X						X		X			X			X	X
873484	MSDS	2.00	11/19 20:47											X																			
875084	PDSS	1.00	11/19 20:53	X	X	X	X	X		X					X	X		X						X		X			X			X	X
877665	PDSS	1.00	11/19 20:53											X																			
870202	Initial	2.00	11/19 20:59	X	X	X	X	X		X				X	X	X		X						X		X						X	X
870203	Initial	2.00	11/19 21:04	X	X	X	X	X		X				X	X	X		X						X		X						X	X
874994	CCV	1.00	11/19 21:10	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
875746	CCV	1.00	11/19 21:15	X	X	X	X	X		X		X	X	X	X	X		X				X		X		X			X			X	X
875747	CCB	1.00	11/19 21:26	X	X	X	X	X		X		X	X	X	X	X		X				X		X		X			X			X	X
870204	Initial	2.00	11/19 21:31	X	X	X	X	X		X	X			X	X	X	X	X								X						X	X

CT LABORATORIES
delivering more than data from your environmental analyses

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ANALYSIS RUN LOG

Lab Name: CT Laboratories

Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

Lab Code: CTL

SDG No.: 82458

Instrument ID Number: TJA

Method Number: P

Start & End Date: 11/19/2010 to 12/03/2010

Analytical Run #: 71910

Sample Number	Analysis or QC Type	DF	Analysis Date/ Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Mo	Li	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	W	V	Zn
870207	Initial	2.00	11/19 21:37	X	X	X	X	X		X	X			X	X	X	X	X								X						X	X
871184	Initial	2.00	11/19 21:43	X	X	X	X	X		X				X	X	X	X	X								X						X	X
871186	Initial	2.00	11/19 21:49	X	X	X	X	X		X	X			X	X	X	X	X						X		X						X	X
871187	Initial	2.00	11/19 21:54	X	X	X	X	X		X	X			X	X	X	X	X								X						X	X
871188	Initial	2.00	11/19 22:00	X	X	X	X	X		X				X	X	X	X	X								X						X	X
871189	Initial	2.00	11/19 22:07	X	X	X	X	X		X	X			X	X	X	X	X						X		X						X	X
871190	Initial	2.00	11/19 22:13	X	X	X	X	X		X	X			X	X	X	X	X								X						X	X
871191	Initial	2.00	11/19 22:18	X	X	X	X	X		X				X	X	X	X	X						X		X						X	X
871192	Initial	2.00	11/19 22:25	X	X	X	X	X		X	X			X	X	X	X	X								X						X	X
874996	CCV	1.00	11/19 22:30	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
875748	CCV	1.00	11/19 22:36	X	X	X	X	X		X		X	X	X	X	X		X				X		X		X			X			X	X
875749	CCB	1.00	11/19 22:46	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
871193	Initial	2.00	11/19 22:52	X		X	X	X		X	X				X		X									X						X	X
871194	Initial	2.00	11/19 22:58	X		X	X	X		X	X				X		X									X						X	X
871195	Initial	2.00	11/19 23:03	X		X	X	X		X	X				X		X							X		X						X	X
871196	Initial	2.00	11/19 23:09	X		X	X	X		X	X				X		X							X		X						X	X
871197	Initial	2.00	11/19 23:15	X	X	X	X	X		X	X				X		X									X			X			X	X
871198	Initial	2.00	11/19 23:20	X		X	X	X		X					X		X									X						X	X
875752	CCV	1.00	11/19 23:49	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
875750	CCV	1.00	11/19 23:55	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
875751	CCB	1.00	11/20 00:05	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
877034	ICV	1.00	11/29 15:08	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
877035	ICB	1.00	11/29 15:19	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
877036	MRL	1.00	11/29 15:25	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
877037	ICSA	1.00	11/29 15:30	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
877038	ICSAB	1.00	11/29 15:36	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
873323	LCSS	1.00	11/29 15:47								X	X	X				X					X											

CT LABORATORIES
delivering more than data from your environmental analyses

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ANALYSIS RUN LOG

Lab Name: CT Laboratories | Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

Lab Code: CTL | SDG No.: 82458

Instrument ID Number: TJA | Method Number: P

Start & End Date: 11/19/2010 to 12/03/2010 | Analytical Run #: 71910

Sample Number	Analysis or QC Type	DF	Analysis Date/ Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Mo	Li	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	W	V	Zn
873322	MBS	1.00	11/29 15:53								X						X												X				
870200	Re-Analysis	5.00	11/29 15:59								X	X	X				X					X							X				
870201	Re-Analysis	5.00	11/29 16:04								X	X	X				X					X							X				
877657	L	5	11/29 16:10								X	X	X				X					X							X				
873481	DUP	5.00	11/29 16:16								X	X	X				X					X							X				
873483	MSS	5.00	11/29 16:21								X	X	X				X					X											
873484	MSDS	5.00	11/29 16:27								X	X	X				X					X											
876019	PDSS	1.00	11/29 16:32								X	X	X				X					X											
877055	CCV	1.00	11/29 16:39	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X					X			X	X
877041	CCV	1.00	11/29 16:44	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
877042	CCB	1.00	11/29 16:55	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
870202	Re-Analysis	5.00	11/29 17:00								X	X	X				X					X							X				
870203	Re-Analysis	5.00	11/29 17:06								X	X	X				X					X							X				
870204	Re-Analysis	5.00	11/29 17:12									X	X									X							X				
870207	Re-Analysis	1.00	11/29 17:17										X									X											
870207	Re-Analysis	5.00	11/29 17:17									X																	X				
871184	Re-Analysis	5.00	11/29 17:23								X	X	X									X							X				
871186	Re-Analysis	5.00	11/29 17:29									X	X									X							X				
871187	Re-Analysis	5.00	11/29 17:35									X	X									X							X				
871188	Re-Analysis	5.00	11/29 17:40									X	X									X							X				
871189	Re-Analysis	5.00	11/29 17:46									X	X									X							X				
871190	Re-Analysis	5.00	11/29 17:52									X	X									X							X				
877053	CCV	1.00	11/29 17:58	X	X	X		X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
877043	CCV	1.00	11/29 18:03		X	X		X					X			X	X	X				X		X		X			X			X	X
877044	CCB	1.00	11/29 18:14	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
871191	Re-Analysis	5.00	11/29 18:19									X	X									X							X				
871192	Re-Analysis	5.00	11/29 18:25									X	X									X							X				
871193	Re-Analysis	5.00	11/29 18:31		X							X	X	X		X		X				X							X				
871194	Re-Analysis	5.00	11/29 18:37		X							X	X	X		X		X				X							X				

CT LABORATORIES
delivering more than data from your environmental analyses

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ANALYSIS RUN LOG

Lab Name: CT Laboratories
Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

Lab Code: CTL
SDG No.: 82458

Instrument ID Number: TJA
Method Number: P

Start & End Date: 11/19/2010 to 12/03/2010
Analytical Run #: 71910

Sample Number	Analysis or QC Type	DF	Analysis Date/ Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Mo	Li	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	W	V	Zn
871195	Re-Analysis	5.00	11/29 18:42		X							X	X	X		X		X				X							X				
871196	Re-Analysis	5.00	11/29 18:48		X							X	X	X		X		X				X							X				
871197	Re-Analysis	5.00	11/29 18:54									X	X	X		X		X				X											
871198	Re-Analysis	5.00	11/29 18:59		X						X	X	X	X		X		X				X							X				
877051	CCV	1.00	11/29 19:16	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
877045	CCV	1.00	11/29 19:22	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
877046	CCB	1.00	11/29 19:32	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
878859	ICV	1.00	12/03 14:04								X													X									
878860	ICB	1.00	12/03 14:15								X													X									
878861	MRL	1.00	12/03 14:20								X													X									
878862	ICSA	1.00	12/03 14:26	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
878863	ICSAB	1.00	12/03 14:32	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
870204	Re-Analysis	2.00	12/03 14:37																					X									
870207	Re-Analysis	2.00	12/03 14:43																					X									
871184	Re-Analysis	2.00	12/03 14:49																					X									
871187	Re-Analysis	2.00	12/03 15:00																					X									
871188	Re-Analysis	10.00	12/03 15:06								X													X									
871190	Re-Analysis	2.00	12/03 15:17																					X									
871191	Re-Analysis	10.00	12/03 15:23								X																						
871192	Re-Analysis	2.00	12/03 15:29																					X									
878878	CCV	1.00	12/03 15:35								X													X									
878864	CCV	1.00	12/03 15:40								X													X									
878865	CCB	1.00	12/03 15:50								X													X									
871193	Re-Analysis	2.00	12/03 15:56																					X									
871194	Re-Analysis	2.00	12/03 16:02																					X									
871197	Re-Analysis	2.00	12/03 16:19																					X									
871198	Re-Analysis	2.00	12/03 16:24																					X									
878866	CCV	1.00	12/03 16:58								X													X									

CT LABORATORIES
delivering more than data from your environmental analyses

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ANALYSIS RUN LOG

Lab Name: CT Laboratories
Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

Lab Code: CTL
SDG No.: 82458

Instrument ID Number: TJA
Method Number: P

Start & End Date: 11/19/2010 to 12/03/2010
Analytical Run #: 71910

Sample Number	Analysis or QC Type	DF	Analysis Date/ Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Mo	Li	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	W	V	Zn
878868	CCV	1.00	12/03 16:58								X													X								
878867	CCB	1.00	12/03 17:08								X													X								

CT LABORATORIES
delivering more than data from your environmental analyses

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ANALYSIS RUN LOG

Lab Name: CT Laboratories
Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

Lab Code: CTL
SDG No.: 82458

Instrument ID Number: TJA
Method Number: P

Start & End Date: 11/22/2010 to 11/22/2010
Analytical Run #: 71911

Sample Number	Analysis or QC Type	DF	Analysis Date/ Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Mo	Li	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	W	V	Zn
874795	ICV	1.00	11/22 07:28																				X				X					
874796	ICB	1.00	11/22 07:30																				X				X					
874797	MRL	1.00	11/22 07:33																				X				X					
874798	ICSA	1.00	11/22 07:35	X							X				X		X						X				X					
874799	ICSAB	1.00	11/22 07:38	X							X				X		X						X				X					
873323	LCSS	1.00	11/22 07:41																				X				X					
873322	MBS	1.00	11/22 07:43																				X				X					
870200	Initial	1.00	11/22 07:46																				X				X					
870201	Initial	1.00	11/22 07:48																				X				X					
874800	L	5	11/22 07:51																				X				X					
873481	DUP	1.00	11/22 07:53																				X				X					
873483	MSS	1.00	11/22 07:55																				X				X					
873484	MSDS	1.00	11/22 07:58																				X				X					
874801	PDSS	1.00	11/22 08:00																				X				X					
870202	Initial	1.00	11/22 08:03																				X				X					
874802	CCV	1.00	11/22 08:05																				X				X					
874803	CCB	1.00	11/22 08:08																				X				X					
870203	Initial	1.00	11/22 08:10																				X				X					
870204	Initial	1.00	11/22 08:13																				X				X					
870207	Initial	1.00	11/22 08:15																				X				X					
871184	Initial	1.00	11/22 08:18																				X				X					
871186	Initial	1.00	11/22 08:20																				X				X					
871187	Initial	1.00	11/22 08:23																				X				X					
871188	Initial	1.00	11/22 08:25																				X				X					
871189	Initial	1.00	11/22 08:28																				X				X					
871190	Initial	1.00	11/22 08:31																				X				X					
871191	Initial	1.00	11/22 08:33																				X				X					
874804	CCV	1.00	11/22 08:36																				X				X					
874805	CCB	1.00	11/22 08:38																				X				X					

CT LABORATORIES
delivering more than data from your environmental analyses

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ANALYSIS RUN LOG

Lab Name: CT Laboratories
Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

Lab Code: CTL
SDG No.: 82458

Instrument ID Number: TJA
Method Number: P

Start & End Date: 11/22/2010 to 11/22/2010
Analytical Run #: 71911

Sample Number	Analysis or QC Type	DF	Analysis Date/ Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Mo	Li	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	W	V	Zn
871192	Initial	1.00	11/22 08:41																				X				X					
871193	Initial	1.00	11/22 08:43																				X				X					
871194	Initial	1.00	11/22 08:46																				X				X					
871195	Initial	1.00	11/22 08:48																				X				X					
871196	Initial	1.00	11/22 08:51																				X				X					
871197	Initial	1.00	11/22 08:53																				X				X					
871198	Initial	1.00	11/22 08:56																				X				X					
874806	CCV	1.00	11/22 09:06																				X				X					
874807	CCB	1.00	11/22 09:09																				X				X					

CT LABORATORIES
delivering more than data from your environmental analyses

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ANALYSIS RUN LOG

Lab Name: CT Laboratories
Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

Lab Code: CTL
SDG No.: 82458

Instrument ID Number: CETAC
Method Number: CV

Start & End Date: 11/24/2010 to 11/24/2010
Analytical Run #: 72018

Sample Number	Analysis or QC Type	DF	Analysis Date/ Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Mo	Li	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	W	V	Zn
875791	ICV	1.00	11/24 09:35																X													
875792	ICB	1.00	11/24 09:37																X													
874583	LCSS	1.00	11/24 09:40																X													
874582	MBS	1.00	11/24 09:42																X													
870200	Initial	1.00	11/24 09:44																X													
870201	Initial	1.00	11/24 09:46																X													
875793	L	5	11/24 09:48																X													
874584	DUP	1.00	11/24 09:50																X													
874585	MSS	1.00	11/24 09:51																X													
874586	MSDS	1.00	11/24 09:53																X													
875794	PDSS	1.00	11/24 09:55																X													
875795	CCV	1.00	11/24 09:57																X													
875796	CCB	1.00	11/24 09:59																X													
870202	Initial	1.00	11/24 10:01																X													
870203	Initial	1.00	11/24 10:03																X													
870204	Initial	1.00	11/24 10:05																X													
870207	Initial	1.00	11/24 10:06																X													
871184	Initial	1.00	11/24 10:08																X													
871186	Initial	1.00	11/24 10:10																X													
871187	Initial	1.00	11/24 10:12																X													
871188	Initial	1.00	11/24 10:14																X													
871189	Initial	1.00	11/24 10:16																X													
871190	Initial	1.00	11/24 10:18																X													
875797	CCV	1.00	11/24 10:19																X													
875798	CCB	1.00	11/24 10:21																X													
871191	Initial	1.00	11/24 10:23																X													
871192	Initial	1.00	11/24 10:25																X													
871193	Initial	1.00	11/24 10:27																X													
871194	Initial	1.00	11/24 10:29																X													

CT LABORATORIES
delivering more than data from your environmental analyses

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ANALYSIS RUN LOG

Lab Name: CT Laboratories

Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

Lab Code: CTL

SDG No.: 82458

Instrument ID Number: CETAC

Method Number: CV

Start & End Date: 11/24/2010 to 11/24/2010

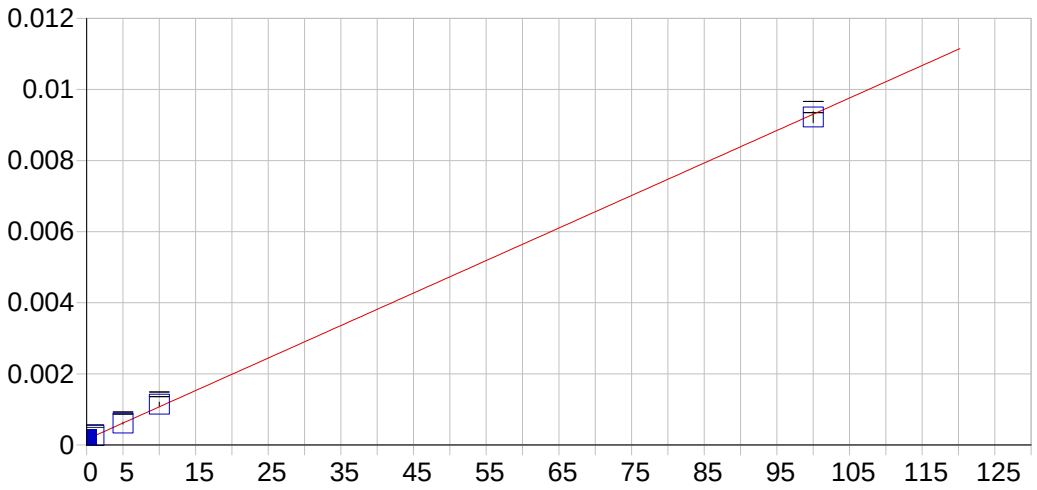
Analytical Run #: 72018

Sample Number	Analysis or QC Type	DF	Analysis Date/ Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Mo	Li	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	W	V	Zn
871195	Initial	1.00	11/24 10:31																X													
871196	Initial	1.00	11/24 10:33																X													
871197	Initial	1.00	11/24 10:35																X													
871198	Initial	1.00	11/24 10:36																X													
875799	CCV	1.00	11/24 10:42																X													
875800	CCB	1.00	11/24 10:44																X													

METALS
RAW DATA
DOCUMENTS

Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)	Correlation	Std Error of Est	Predicted MDL	Predicted MQL
Ag 328.068 {103}	11/19/2010 09:50:47	11/19/2010 09:50:47	Linear	None	0.000073	0.000114	0.000000	1.000000	0.999903	0.000079	1.574029	5.246764
Ag 338.289 {100}	11/19/2010 09:07:06	11/19/2010 09:07:06	Linear	None	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	-1.000000	-1.000000
Al 167.079 {502}	11/19/2010 09:55:50	11/19/2010 09:55:50	Linear	None	0.000011	0.000001	0.000000	1.000000	0.999735	0.000010	5.778066	19.260222
Al 309.271 {109}	11/19/2010 10:13:16	11/19/2010 10:13:16	Linear	1/Conc	0.000549	0.000003	0.000000	1.000000	0.999821	0.000028	42.480664	141.602212
Al 396.152 { 85}	11/19/2010 10:25:31	11/19/2010 10:25:31	Full Fit	1/Conc	0.000116	0.000004	0.000000	1.030000	0.999937	0.000143	42.406139	141.353797
As 189.042 {479}	11/19/2010 10:01:38	11/19/2010 10:01:38	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000	0.999883	0.000000	26.336138	87.787126
As 193.759 {474}	11/22/2010 08:35:01	11/19/2010 09:55:50	Linear	None	-0.000002	0.000000	0.000000	1.000000	0.999926	0.000003	16.095048	53.650159
Ba 455.403 { 74}	11/19/2010 09:50:47	11/19/2010 09:50:47	Linear	1/Conc	0.000243	0.000277	0.000000	1.000000	0.998906	0.000007	1.034623	3.448745
Ba 493.409 { 68}	11/19/2010 10:01:38	11/19/2010 10:01:38	Linear	1/Conc	0.015837	0.000335	0.000000	1.000000	0.999987	0.000309	1.644466	5.481555
Be 234.861 {144}	11/19/2010 09:55:50	11/19/2010 09:55:50	Linear	None	0.000107	0.000041	0.000000	1.000000	0.999992	0.000132	0.883275	2.944251
Be 313.042 {108}	11/19/2010 09:55:50	11/19/2010 09:55:50	Linear	1/Conc	0.000099	0.000436	0.000000	1.000000	0.999875	0.000004	0.284556	0.948520
Ca 317.933 {106}	11/19/2010 10:25:31	11/19/2010 10:25:31	Full Fit	1/Conc	0.004619	0.000008	-0.000000	1.010000	0.999995	0.000059	8.263439	27.544798
Ca 393.366 { 86}	11/19/2010 09:55:50	11/19/2010 09:55:50	Linear	None	0.014279	0.000839	0.000000	1.000000	0.999908	0.009090	0.175990	0.586633
Ca 396.847 { 85}	11/19/2010 10:01:38	11/19/2010 10:01:38	Linear	1/Conc	0.004396	0.000405	0.000000	1.000000	0.999940	0.000209	0.292103	0.973677
Cd 226.502 {449}	11/19/2010 09:55:50	11/19/2010 09:55:50	Linear	1/Conc	0.000003	0.000031	0.000000	1.000000	0.999619	0.000001	0.434395	1.447983
Cd 228.802 {447}	11/19/2010 09:55:50	11/19/2010 09:55:50	Linear	None	0.000135	0.000031	0.000000	1.000000	0.999973	0.000176	0.496281	1.654271
Co 228.616 {447}	11/19/2010 09:55:50	11/19/2010 09:55:50	Linear	1/Conc	0.000005	0.000016	0.000000	1.000000	0.999696	0.000000	0.778882	2.596274
Co 238.892 {141}	11/19/2010 10:01:38	11/19/2010 10:01:38	Linear	1/Conc	0.000003	0.000005	0.000000	1.000000	1.000000	0.000000	7.988738	26.629128
Cr 267.716 {126}	11/19/2010 09:55:50	11/19/2010 09:55:50	Linear	1/Conc	0.000033	0.000044	0.000000	1.000000	0.999537	0.000002	1.636688	5.455625
Cr 283.563 {119}	11/19/2010 10:07:29	11/19/2010 10:07:29	Linear	1/Conc	0.000032	0.000012	0.000000	1.000000	0.999991	0.000004	5.913434	19.711447
Cu 224.700 {450}	11/19/2010 10:01:38	11/19/2010 10:01:38	Linear	1/Conc	0.000057	0.000007	0.000000	1.000000	0.999820	0.000001	1.856968	6.189893
Cu 324.754 {104}	11/19/2010 10:07:29	11/19/2010 10:07:29	Linear	None	0.002672	0.000003	0.000000	1.000000	0.999993	0.000610	32.871242	109.570806
Cu 327.396 {103}	11/19/2010 09:55:50	11/19/2010 09:55:50	Linear	None	0.001979	0.000037	0.000000	1.000000	0.999848	0.000287	4.993249	16.644164
Fe 234.349 {144}	11/19/2010 10:25:31	11/19/2010 10:25:31	Full Fit	1/Conc	0.000079	0.000001	0.000000	1.040000	0.999997	0.000006	59.554381	198.514603
Fe 239.562 {141}	11/19/2010 10:01:38	11/19/2010 10:01:38	Linear	None	0.000214	0.000004	0.000000	1.000000	0.999995	0.000108	6.851589	22.838631
Fe 259.940 {130}	11/22/2010 08:35:21	11/19/2010 09:55:50	Linear	None	0.000262	0.000007	0.000000	1.000000	0.998778	0.000176	7.379404	24.598015
Mg 279.079 {121}	11/19/2010 10:25:31	11/19/2010 10:25:31	Full Fit	None	0.000418	0.000001	0.000000	1.060000	1.000000	0.000514	101.517204	338.390681
Mg 279.553 {121}	11/19/2010 09:45:25	11/19/2010 09:45:25	Linear	None	0.000928	0.000198	0.000000	1.000000	0.999797	0.000106	0.169631	0.565436
Mg 280.270 {120}	11/19/2010 10:01:38	11/19/2010 10:01:38	Linear	1/Conc	0.000713	0.000129	0.000000	1.000000	0.999964	0.000199	0.346747	1.155825
Mn 257.610 {131}	11/19/2010 10:01:38	11/19/2010 10:01:38	Linear	1/Conc	0.000007	0.000076	0.000000	1.000000	0.999886	0.000004	0.863768	2.879228
Mn 259.373 {130}	11/19/2010 10:07:29	11/19/2010 10:07:29	Linear	1/Conc	0.000051	0.000055	0.000000	1.000000	0.999970	0.000200	1.150590	3.835299
Mo 202.030 {467}	11/19/2010 09:55:50	11/19/2010 09:55:50	Linear	None	0.000012	0.000005	0.000000	1.000000	0.999975	0.000012	1.831375	6.104584
Mo 203.844 {465}	11/19/2010 09:55:50	11/19/2010 09:55:50	Linear	None	0.000009	0.000002	0.000000	1.000000	0.999968	0.000007	3.745062	12.483540
Mo 204.598 {465}	11/19/2010 10:01:38	11/19/2010 10:01:38	Linear	1/Conc	-0.000002	0.000003	0.000000	1.000000	0.999832	0.000002	2.908810	9.696033
Ni 221.647 {452}	11/19/2010 10:01:38	11/19/2010 10:01:38	Linear	1/Conc	0.000004	0.000014	0.000000	1.000000	0.999962	0.000006	1.189901	3.966336
Ni 231.604 {445}	11/19/2010 09:55:50	11/19/2010 09:55:50	Linear	None	0.000013	0.000007	0.000000	1.000000	0.999973	0.000021	1.827872	6.092908
Pb 216.999 {455}	11/19/2010 10:07:29	11/19/2010 10:07:29	Full Fit	None	0.000010	0.000001	0.000000	0.950000	1.000000	0.000000	16.895798	56.319326
Pb 220.353 {453}	11/19/2010 09:55:50	11/19/2010 09:55:50	Linear	1/Conc	0.000004	0.000004	0.000000	1.000000	0.998886	0.000000	4.147797	13.825992
Sb 206.833 {463}	11/19/2010 10:01:38	11/19/2010 10:01:38	Linear	1/Conc	0.000000	0.000001	0.000000	1.000000	0.999757	0.000000	8.929338	29.764461
Sb 217.581 {455}	11/19/2010 10:01:38	11/19/2010 10:01:38	Linear	1/Conc	-0.000007	0.000001	0.000000	1.000000	0.999849	0.000000	11.286894	37.622979
Se 196.090 {472}	11/19/2010 10:01:38	11/19/2010 10:01:38	Linear	1/Conc	0.000005	0.000000	0.000000	1.000000	0.999503	0.000000	20.775374	69.251247
Se 206.279 {463}	11/19/2010 10:01:38	11/19/2010 10:01:38	Linear	1/Conc	0.000003	0.000000	0.000000	1.000000	0.999861	0.000000	115.247644	384.158815
Tl 190.856 {477}	11/19/2010 10:01:38	11/19/2010 10:01:38	Linear	1/Conc	-0.000000	0.000000	0.000000	1.000000	0.999258	0.000000	16.881577	56.271922
Tl 276.787 {122}	11/19/2010 10:01:38	11/19/2010 10:01:38	Linear	None	0.000001	0.000000	0.000000	1.000000	0.999970	0.000021	255.056925	850.189751

Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)	Correlation	Std Error of Est	Predicted MDL	Predicted MQL
V 290.882 {116}	11/19/2010 10:01:38	11/19/2010 10:01:38	Linear	1/Conc	0.000927	0.000058	0.000000	1.000000	0.999992	0.000043	1.788995	5.963317
V 292.402 {115}	11/19/2010 09:55:50	11/19/2010 09:55:50	Linear	1/Conc	0.000101	0.000043	0.000000	1.000000	0.999897	0.000001	2.389161	7.963868
Zn 206.200 {463}	11/19/2010 10:07:29	11/19/2010 10:07:29	Full Fit	None	-0.000013	0.000012	-0.000000	0.980000	1.000000	0.000000	0.722657	2.408858
Zn 213.856 {458}	11/19/2010 09:55:50	11/19/2010 09:55:50	Linear	1/Conc	0.000033	0.000020	0.000000	1.000000	0.999538	0.000003	0.493507	1.645022
Y 360.073 { 94}*	11/19/2010 09:07:07	11/19/2010 09:07:07	Linear	None	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	-1.000000	-1.000000
B 249.773 {135}	11/19/2010 09:55:50	11/19/2010 09:55:50	Linear	None	0.000020	0.000006	0.000000	1.000000	0.999961	0.000029	9.882118	32.940395
Li 670.784 { 50}	11/19/2010 09:55:50	11/19/2010 09:55:50	Linear	None	0.000003	0.000096	0.000000	1.000000	0.999976	0.000298	4.288791	14.295971
Na 330.298 {102}	11/19/2010 10:13:16	11/19/2010 10:13:16	Linear	1/Conc	0.000002	0.000000	0.000000	1.000000	1.000000	0.000000	6274.46151	20914.8717
Si 251.611 {134}	11/19/2010 09:55:50	11/19/2010 09:55:50	Linear	None	0.000070	0.000000	0.000000	1.000000	1.000000	0.000000	562.053924	1873.51307
Sr 407.771 { 83}	11/19/2010 10:01:38	11/19/2010 10:01:38	Linear	1/Conc	-0.002599	0.000688	0.000000	1.000000	0.999908	0.000036	0.246340	0.821133
Ti 334.941 {101}	11/19/2010 09:55:50	11/19/2010 09:55:50	Linear	1/Conc	0.000016	0.000038	0.000000	1.000000	0.999365	0.000006	2.728691	9.095638

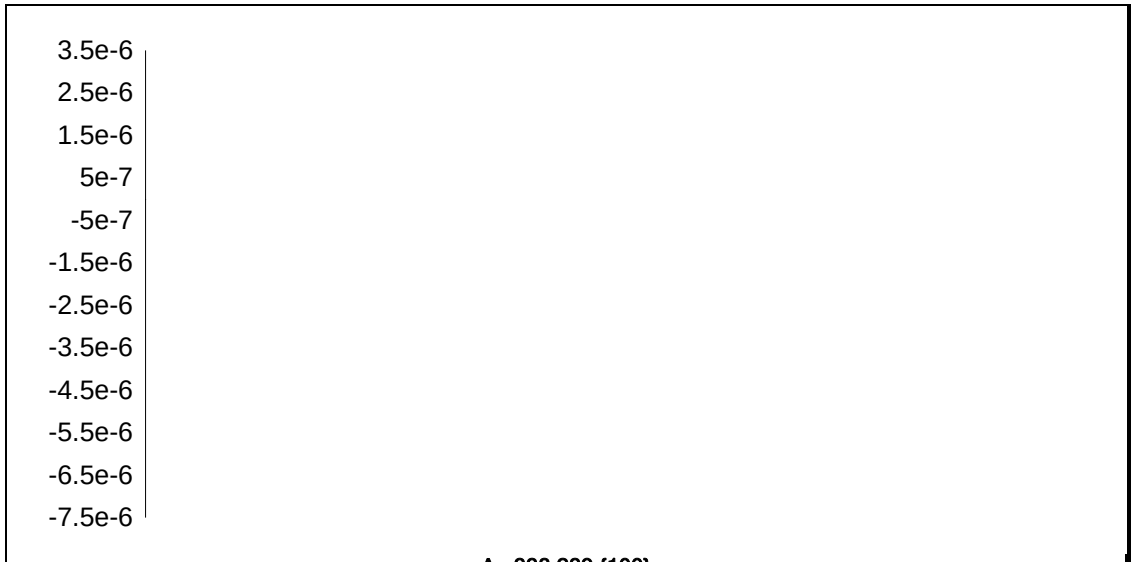


Ag 328.068 {103}

Date of Fit:	11/19/2010 09:50:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000159	Re-Slope:	1.000000
A1 (Gain):	0.000091	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999640	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	1.964047		
Predicted MQL:	6.546823		

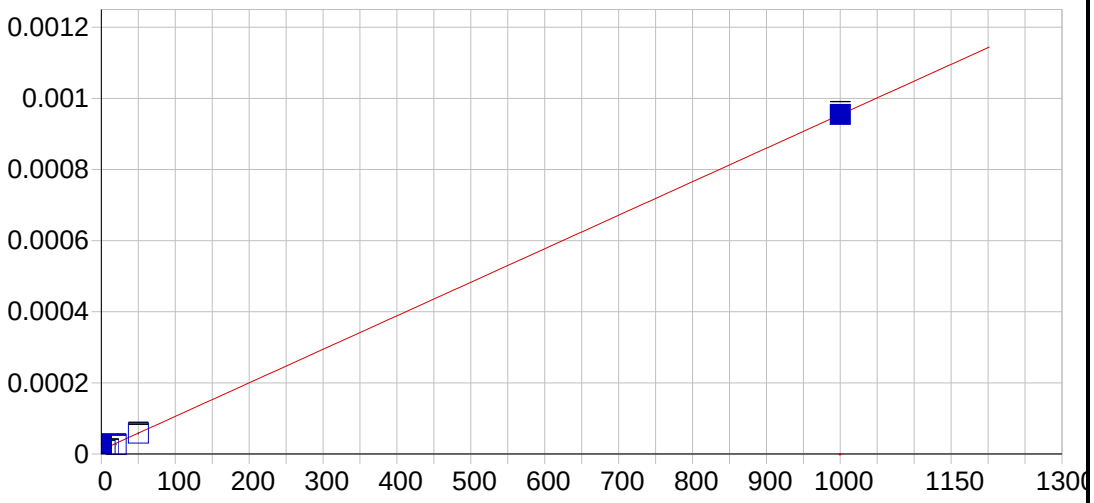
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00020	.000	.000	.00016	.000	1
CalibStd=100	100.00	99.132	-.868	-.868	.00922	.000	1
CalibStd=10	10.000	10.746	.746	7.46	.00114	.000	1
CalibStd=1	1.0000	1.1421	.142	14.2	.00026	.000	1
CalibStd=5	5.0000	4.9801	-.020	-.397	.00061	.000	1



Ag 338.289 {100}

Date of Fit:	11/19/2010 09:07:06	Type of Fit:	Linear	Weighting:	None	
A0 (Offset):	0.000000		Re-Slope:	1.000000		
A1 (Gain):	0.000000		Y-int:	0.000000		
A2 (Curvature):	0.000000					
n (Exponent):	1.000000					
Correlation:	0.000000		Status:	Warning	Zero Gain	
Std Error of Est:	0.000000					
Predicted MDL:	n/a					
Predicted MQL:	n/a					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00000	.000	1

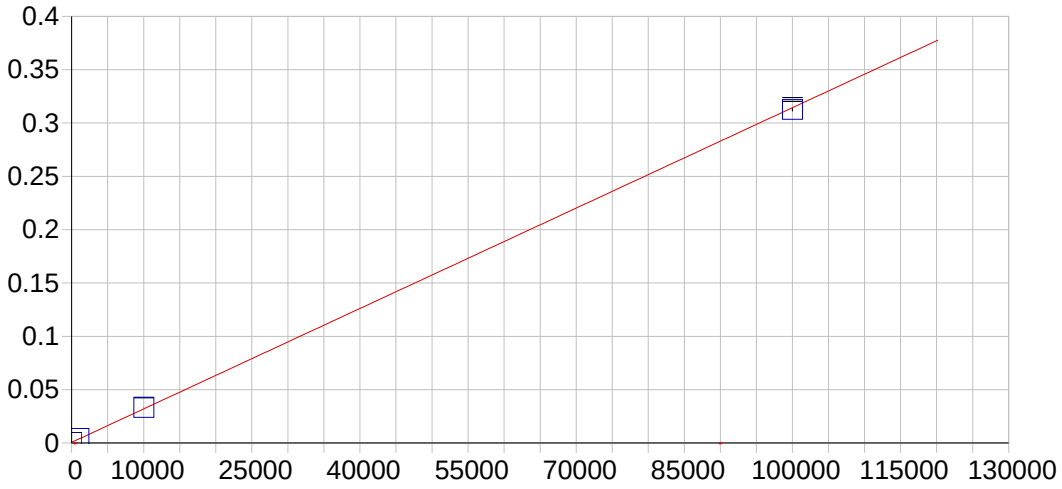


Al 167.079 {502}

Date of Fit:	11/19/2010 09:55:50	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000011	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999735	Status:	OK.
Std Error of Est:	0.000010		
Predicted MDL:	5.778066		
Predicted MQL:	19.260222		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	17.790	17.8	.000	.00003	.000	1
CalibStd=100	1000.0	1000.2	.226	.023	.00096	.000	1
CalibStd=20	20.000	15.804	-4.20	-21.0	.00003	.000	1
CalibStd=10	10.000	1.5979	-8.40	-84.0	.00001	.000	1
CalibStd=5	5.0000	.27855	-4.72	-94.4	.00001	.000	1
CalibStd=50	50.000	49.303	-.697	-1.39	.00006	.000	1

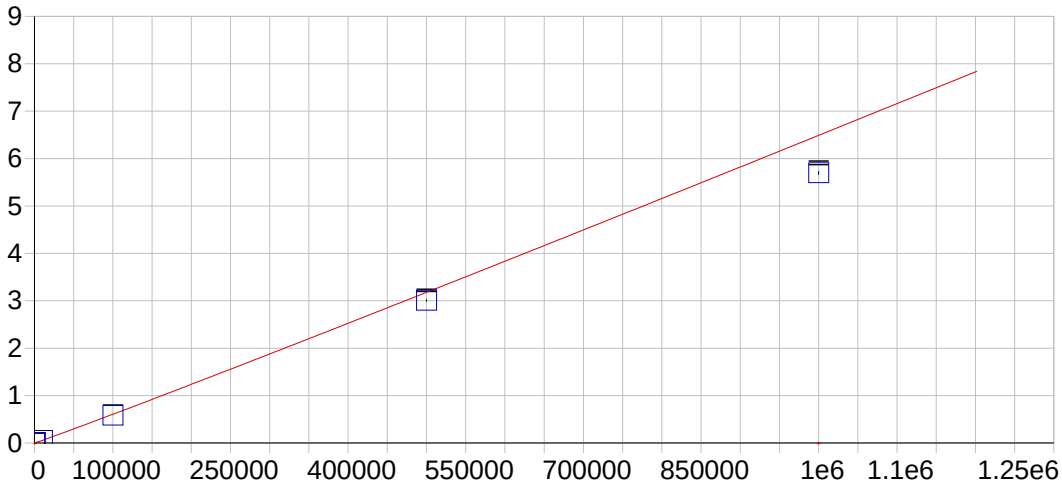


Al 309.271 {109}

Date of Fit:	11/19/2010 10:13:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000549	Re-Slope:	1.000000
A1 (Gain):	0.000003	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999821	Status:	OK.
Std Error of Est:	0.000028		
Predicted MDL:	42.480664		
Predicted MQL:	141.602212		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.17909	-.179	.000	.00055	.000	1
CalibStd=100	10000.	10398.	398.	3.98	.03318	.000	1
CalibStd=100	100000.	99457.	-543.	-.543	.31271	.002	1
CalibStd=100	1000.0	1144.7	145.	14.5	.00414	.000	1

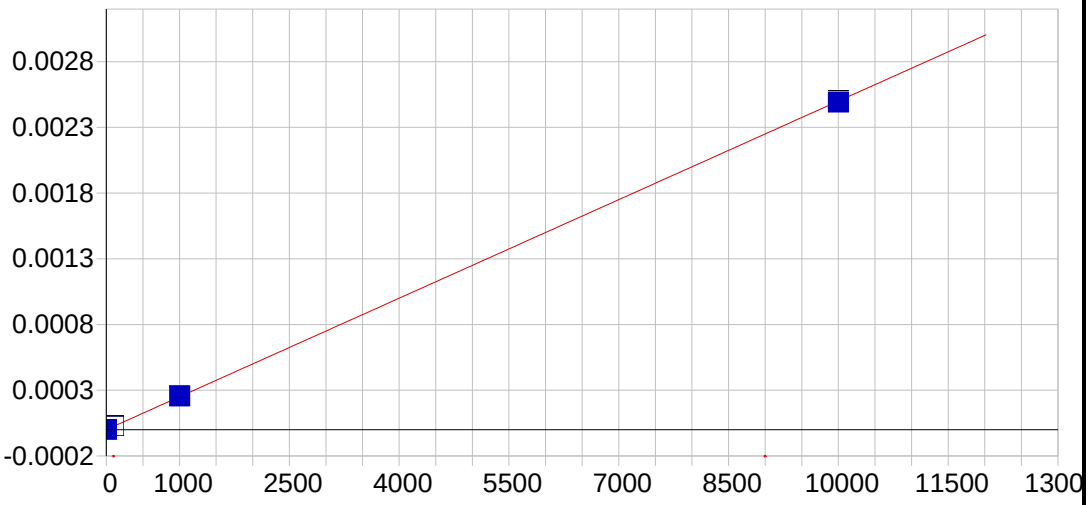


Al 396.152 { 85}

Date of Fit:	11/19/2010 10:25:31	Type of Fit:	Full Fit	Weighting:	1/Conc

A0 (Offset):	0.000116	Re-Slope:	1.000000
A1 (Gain):	0.000004	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.030000		
Correlation:	0.999937	Status:	OK.
Std Error of Est:	0.000143		
Predicted MDL:	42.406139		
Predicted MQL:	141.353797		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00011	.000	1
CalibStd=100	100000.	96289.	-3710.	-3.71	.58258	.002	1
CalibStd-100	1000000.	881300.	-119000.	-11.9	5.6974	.040	1
CalibStd=500	500000.	473830.	-26200.	-5.23	3.0067	.024	1
CalibStd=100	1000.0	1154.1	154.	15.4	.00623	.000	1
CalibStd=100	10000.	10898.	898.	8.98	.06187	.000	1

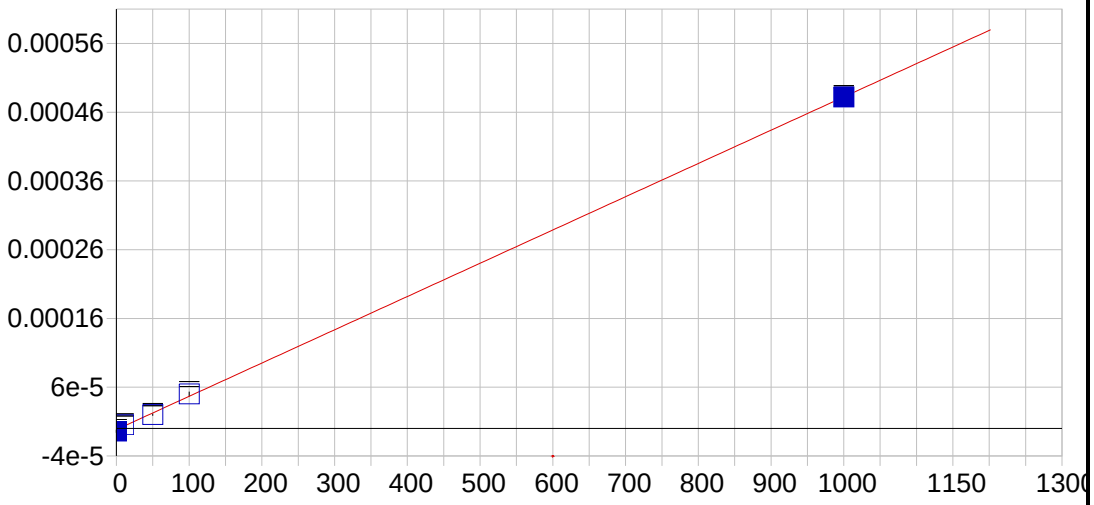


As 189.042 {479}

Date of Fit:	11/19/2010 10:01:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999883	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	26.336138		
Predicted MQL:	87.787126		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.01602	-.016	.000	.00000	.000	1
CalibStd=100	1000.0	1020.9	20.9	2.09	.00026	.000	1
CalibStd=100	10000.	9964.8	-35.2	-.352	.00249	.000	1
CalibStd=100	100.00	114.28	14.3	14.3	.00003	.000	1

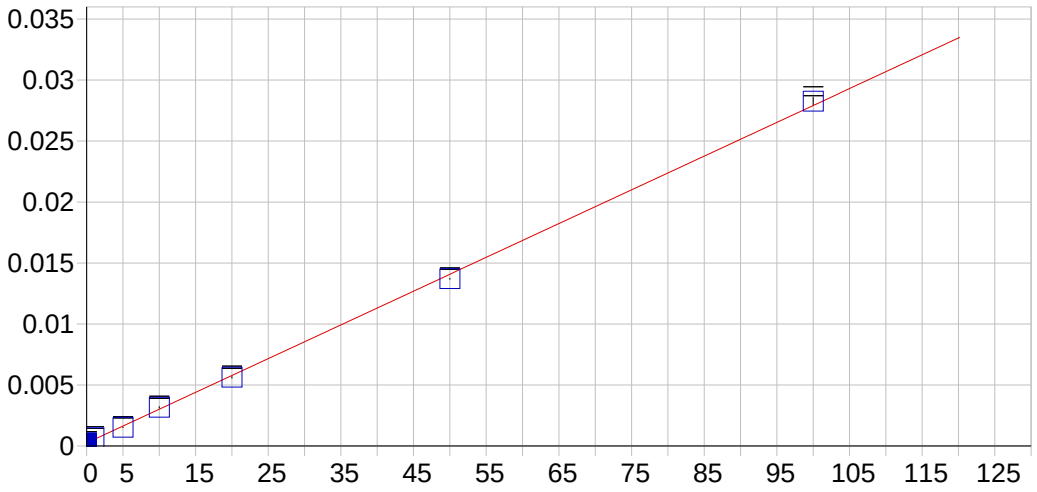


As 193.759 {474}

Date of Fit:	11/22/2010 08:35:01	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-0.000002	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999926	Status:	OK.
Std Error of Est:	0.000003		
Predicted MDL:	16.095048		
Predicted MQL:	53.650159		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-4.9027	-4.90	.000	.00000	.000	1
CalibStd=100	1000.0	999.56	-.444	-.044	.00048	.000	1
CalibStd=50	50.000	44.852	-5.15	-10.3	.00002	.000	1
CalibStd=10	10.000	13.866	3.87	38.7	.00001	.000	1
CalibStd=100	100.00	106.63	6.63	6.63	.00005	.000	1

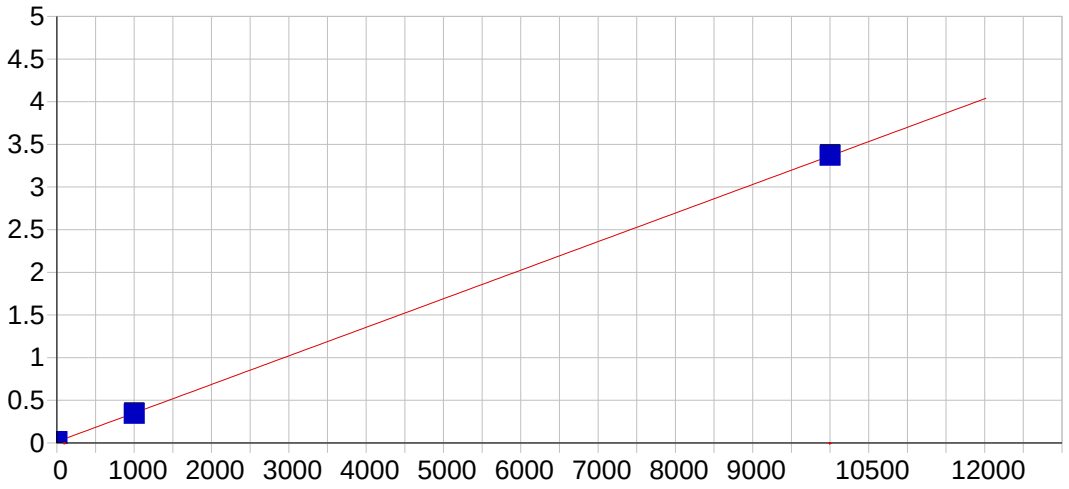


Ba 455.403 { 74}

Date of Fit:	11/19/2010 09:50:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000243	Re-Slope:	1.000000
A1 (Gain):	0.000277	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998906	Status:	OK.
Std Error of Est:	0.000007		
Predicted MDL:	1.034623		
Predicted MQL:	3.448745		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00046	.000	.000	.00024	.000	1
CalibStd=50	50.000	48.649	-1.35	-2.70	.01371	.000	1
CalibStd=10	10.000	10.530	.530	5.30	.00316	.000	1
CalibStd=20	20.000	19.442	-.558	-2.79	.00562	.000	1
CalibStd=100	100.00	101.24	1.24	1.24	.02826	.000	1
CalibStd=1	1.0000	1.5300	.530	53.0	.00067	.000	1
CalibStd=5	5.0000	4.6072	-.393	-7.86	.00152	.000	1

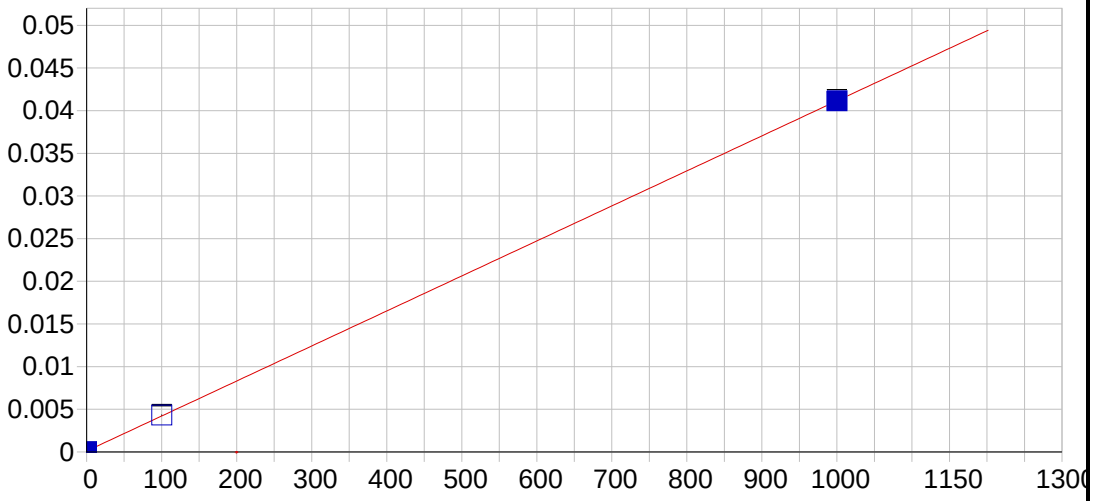


Ba 493.409 { 68}

Date of Fit:	11/19/2010 10:01:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.015837	Re-Slope:	1.000000
A1 (Gain):	0.000335	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999987	Status:	OK.
Std Error of Est:	0.000309		
Predicted MDL:	1.644466		
Predicted MQL:	5.481555		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.01447	.014	.000	.01584	.000	1
CalibStd=100	1000.0	983.92	-16.1	-1.61	.34536	.001	1
CalibStd=100	10000.	10016.	16.1	.161	3.3703	.007	1

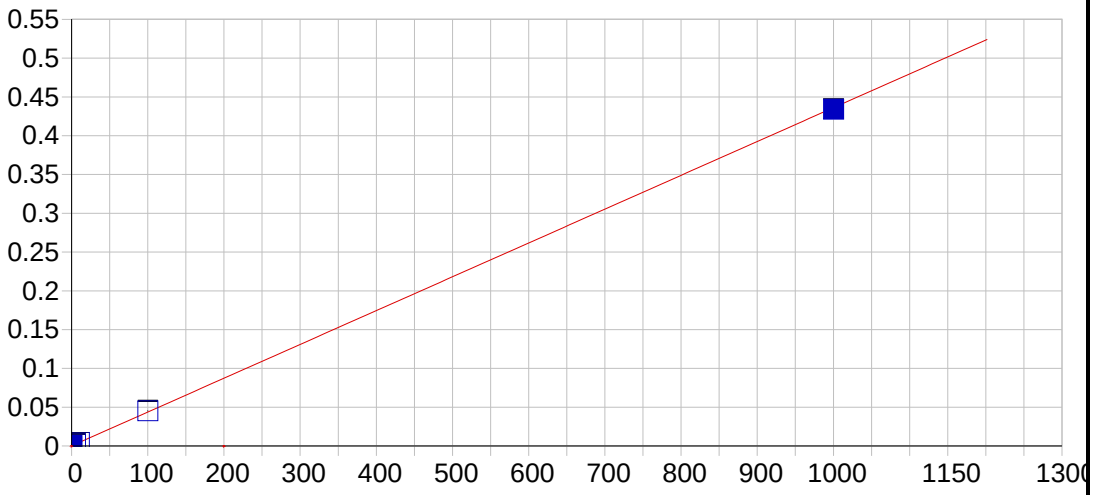


Be 234.861 {144}

Date of Fit:	11/19/2010 09:55:50	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000107	Re-Slope:	1.000000
A1 (Gain):	0.000041	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999992	Status:	OK.
Std Error of Est:	0.000132		
Predicted MDL:	0.883275		
Predicted MQL:	2.944251		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-2.1392	-2.14	.000	.00002	.000	1
CalibStd=100	1000.0	999.76	-.238	-.024	.04113	.000	1
CalibStd=100	100.00	102.38	2.38	2.38	.00431	.000	1

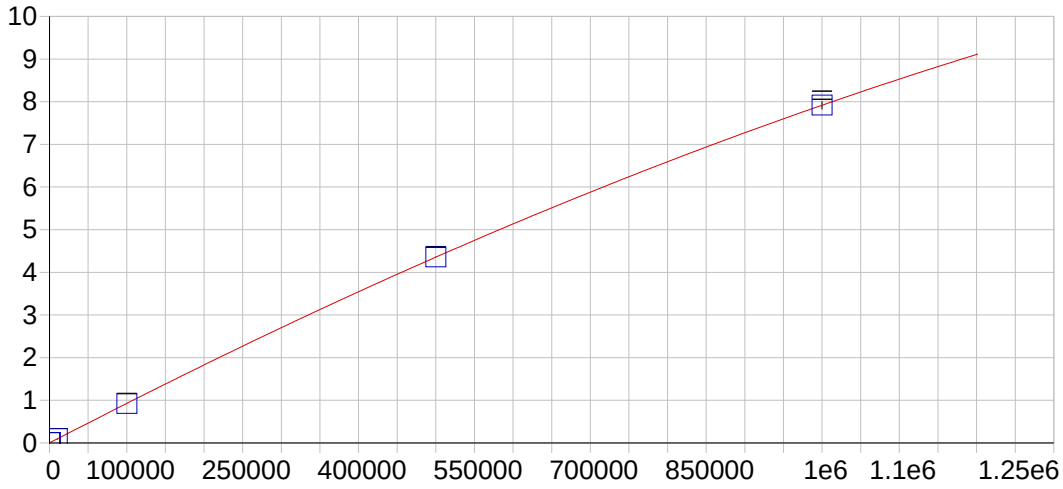


Be 313.042 {108}

Date of Fit:	11/19/2010 09:55:50	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000099	Re-Slope:	1.000000
A1 (Gain):	0.000436	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999875	Status:	OK.
Std Error of Est:	0.000004		
Predicted MDL:	0.284556		
Predicted MQL:	0.948520		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00006	.000	.000	.00010	.000	1
CalibStd=10	10.000	11.005	1.00	10.0	.00490	.000	1
CalibStd=100	100.00	103.55	3.55	3.55	.04525	.001	1
CalibStd=0.5	.50000	.53958	.040	7.92	.00033	.000	1
CalibStd=5	5.0000	5.3429	.343	6.86	.00243	.000	1
CalibStd=0.2	.25000	.24204	-.008	-3.18	.00020	.000	1
CalibStd=100	1000.0	995.07	-4.93	-.493	.43399	.001	1

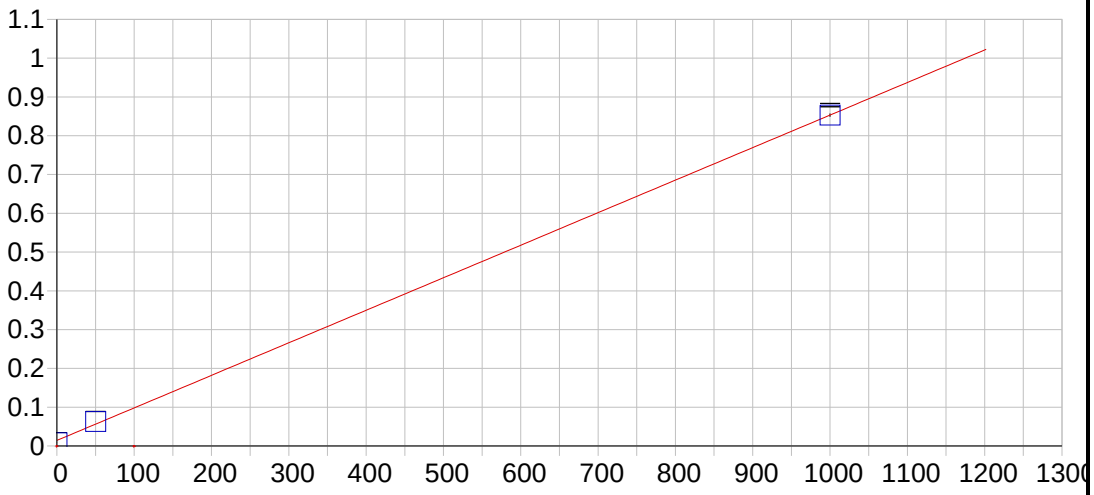


Ca 317.933 {106}

Date of Fit:	11/19/2010 10:25:31	Type of Fit:	Full Fit	Weighting:	1/Conc

A0 (Offset):	0.004619	Re-Slope:	1.000000
A1 (Gain):	0.000008	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	1.010000		
Correlation:	0.999995	Status:	OK.
Std Error of Est:	0.000059		
Predicted MDL:	8.263439		
Predicted MQL:	27.544798		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00462	.000	1
CalibStd=100	10000.	10159.	159.	1.59	.09763	.000	1
CalibStd=100	100000.	99510.	-490.	-.490	.92230	.004	1
CalibStd=500	500000.	500450.	448.	.090	4.3595	.009	1
CalibStd-100	1000000.	999790.	-213.	-.021	7.9165	.095	1
CalibStd=100	1000.0	1092.9	92.9	9.29	.01442	.000	1

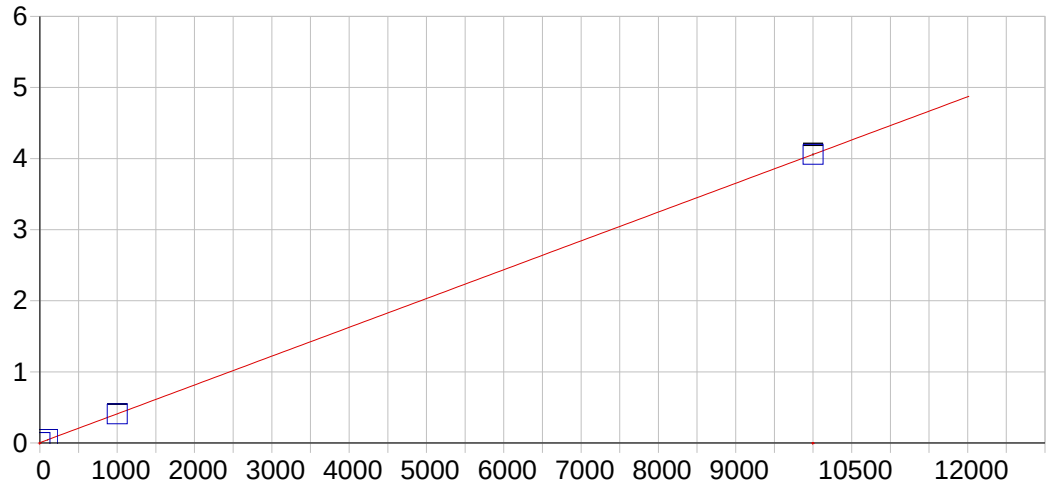


Ca 393.366 { 86}

Date of Fit:	11/19/2010 09:55:50	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.014279	Re-Slope:	1.000000
A1 (Gain):	0.000839	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999908	Status:	OK.
Std Error of Est:	0.009090		
Predicted MDL:	0.175990		
Predicted MQL:	0.586633		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-7.4569	-7.46	.000	.00802	.000	1
CalibStd=50	50.000	57.849	7.85	15.7	.06282	.000	1
CalibStd=100	1000.0	999.61	-.392	-.039	.85298	.004	1

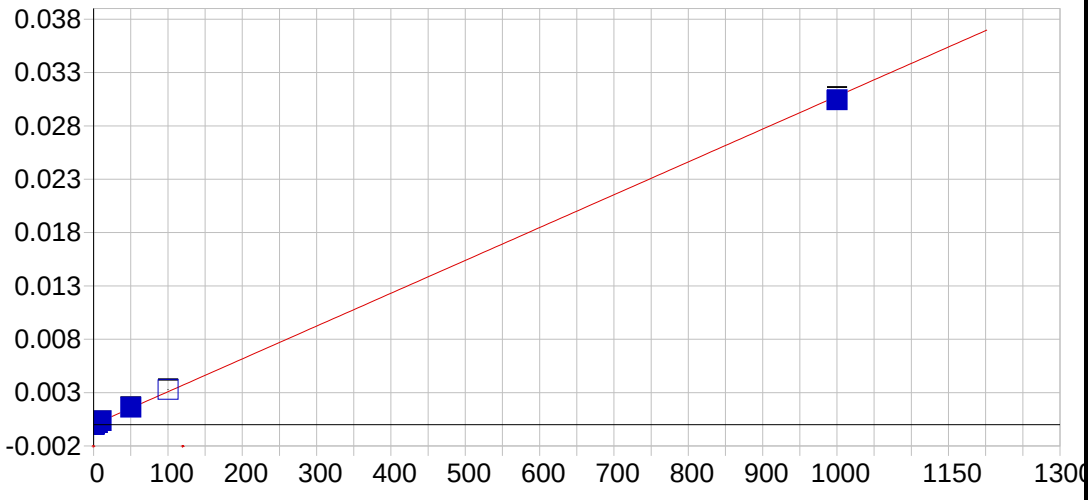


Ca 396.847 { 85}

Date of Fit:	11/19/2010 10:01:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004396	Re-Slope:	1.000000
A1 (Gain):	0.000405	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999940	Status:	OK.
Std Error of Est:	0.000209		
Predicted MDL:	0.292103		
Predicted MQL:	0.973677		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.01029	-.010	.000	.00439	.000	1
CalibStd=100	10000.	9997.6	-2.42	-.024	4.0576	.016	1
CalibStd=100	100.00	111.19	11.2	11.2	.04948	.000	1
CalibStd=100	1000.0	991.23	-8.77	-.877	.40625	.002	1

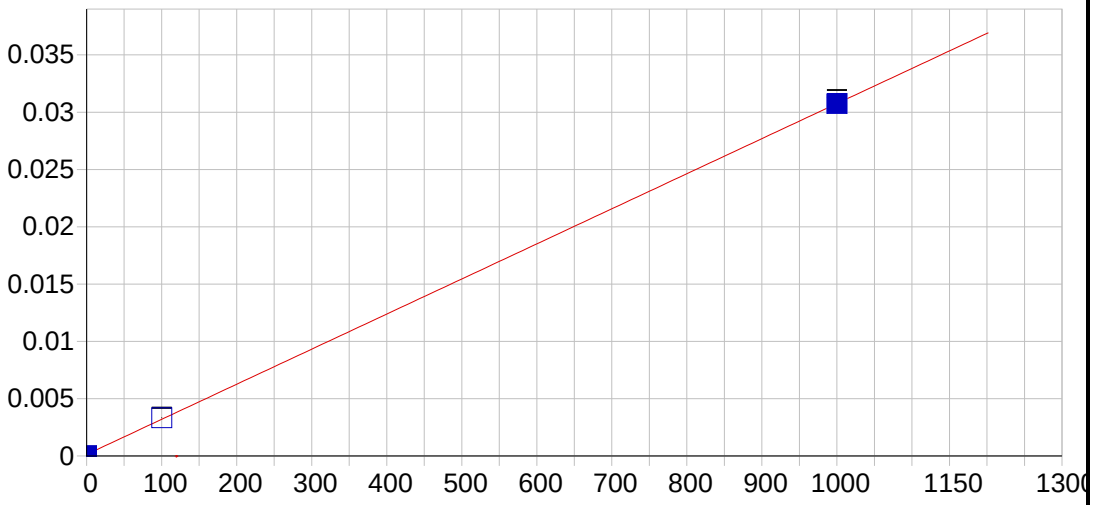


Cd 226.502 {449}

Date of Fit:	11/19/2010 09:55:50	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000003	Re-Slope:	1.000000
A1 (Gain):	0.000031	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999619	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	0.434395		
Predicted MQL:	1.447983		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00004	.000	.000	.00000	.000	1
CalibStd=50	50.000	52.833	2.83	5.67	.00163	.000	1
CalibStd=1	1.0000	.98315	-.017	-1.68	.00003	.000	1
CalibStd=0.5	.50000	.42638	-.074	-14.7	.00002	.000	1
CalibStd=5	5.0000	5.4526	.453	9.05	.00017	.000	1
CalibStd=0.2	.25000	.25252	.003	1.01	.00001	.000	1
CalibStd=100	100.00	106.70	6.70	6.70	.00329	.000	1
CalibStd=10	10.000	11.043	1.04	10.4	.00034	.000	1
CalibStd=100	1000.0	989.06	-10.9	-1.09	.03044	.000	1

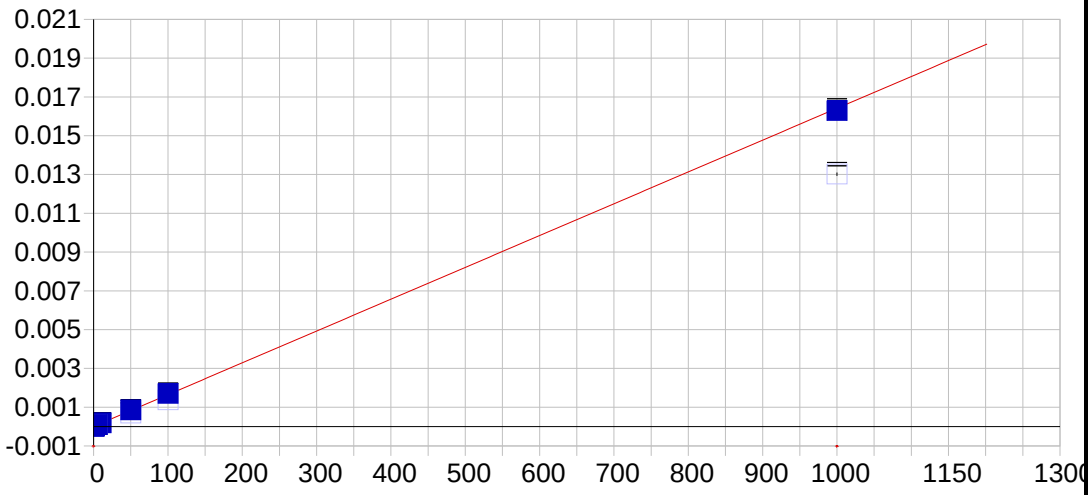


Cd 228.802 {447}

Date of Fit:	11/19/2010 09:55:50	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000135	Re-Slope:	1.000000
A1 (Gain):	0.000031	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999973	Status:	OK.
Std Error of Est:	0.000176		
Predicted MDL:	0.496281		
Predicted MQL:	1.654271		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-3.8432	-3.84	.000	.00002	.000	1
CalibStd=100	1000.0	999.57	-.427	-.043	.03074	.000	1
CalibStd=100	100.00	104.27	4.27	4.27	.00333	.000	1

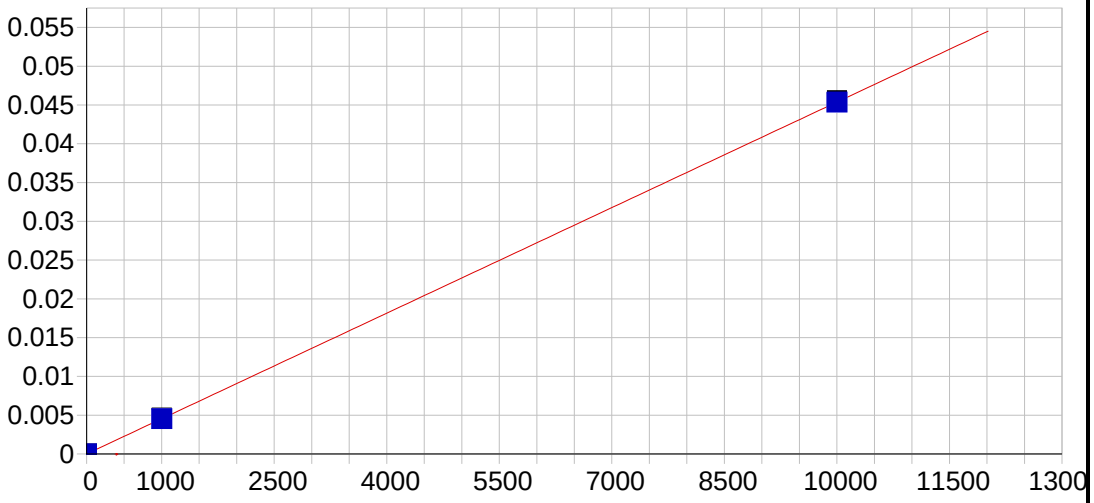


Co 228.616 {447}

Date of Fit:	11/19/2010 09:55:50	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000005	Re-Slope:	1.000000
A1 (Gain):	0.000016	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999696	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.778882		
Predicted MQL:	2.596274		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00005	.000	.000	.00000	.000	1
CalibStd=50	50.000	51.963	1.96	3.93	.00069	.000	1
CalibStd=10	10.000	11.026	1.03	10.3	.00015	.000	1
CalibStd=5	5.0000	5.4293	.429	8.59	.00008	.000	1
CalibStd=1	1.0000	.79467	-.205	-20.5	.00002	.000	1
CalibStd=100	100.00	103.80	3.80	3.80	.00138	.000	1
CalibStd=100	1000.0	993.04	-6.96	-.696	.01302	.000	1

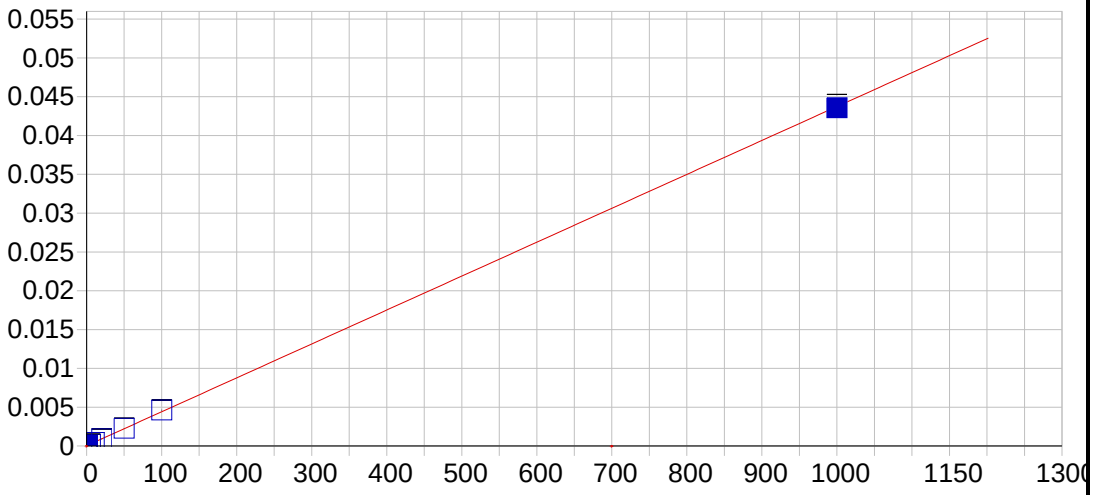


Co 238.892 {141}

Date of Fit:	11/19/2010 10:01:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000003	Re-Slope:	1.000000
A1 (Gain):	0.000005	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	7.988738		
Predicted MQL:	26.629128		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00098	-.001	.000	.00000	.000	1
CalibStd=100	1000.0	1001.1	1.09	.109	.00454	.000	1
CalibStd=100	10000.	9998.9	-1.09	-.011	.04530	.000	1

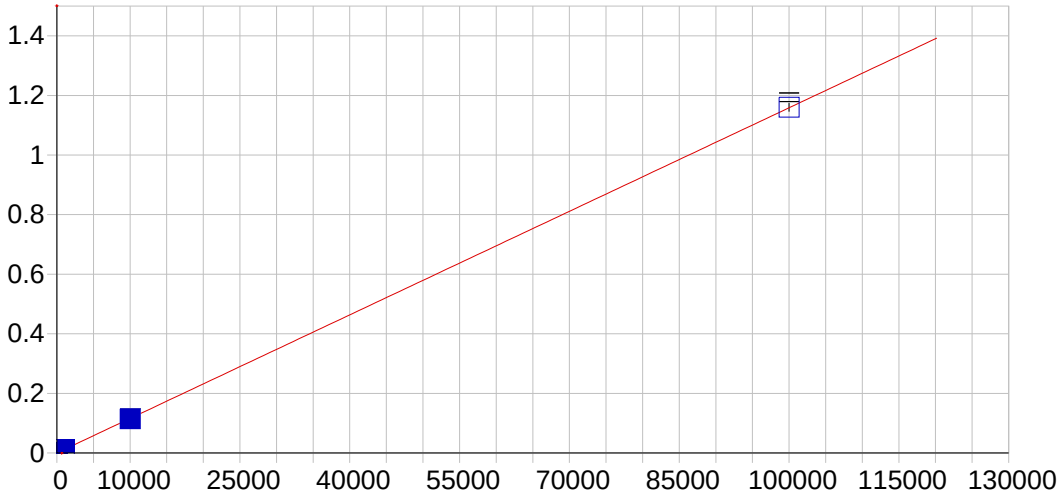


Cr 267.716 {126}

Date of Fit:	11/19/2010 09:55:50	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000033	Re-Slope:	1.000000
A1 (Gain):	0.000044	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999537	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	1.636688		
Predicted MQL:	5.455625		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00096	.001	.000	.00003	.000	1
CalibStd=10	10.000	9.1716	-.828	-8.28	.00043	.000	1
CalibStd=5	5.0000	4.2885	-.712	-14.2	.00022	.000	1
CalibStd=1	1.0000	.20271	-.797	-79.7	.00004	.000	1
CalibStd=50	50.000	51.156	1.16	2.31	.00227	.000	1
CalibStd=100	1000.0	996.22	-3.78	-.378	.04357	.000	1
CalibStd=20	20.000	19.945	-.055	-.274	.00091	.000	1
CalibStd=100	100.00	105.01	5.01	5.01	.00462	.000	1

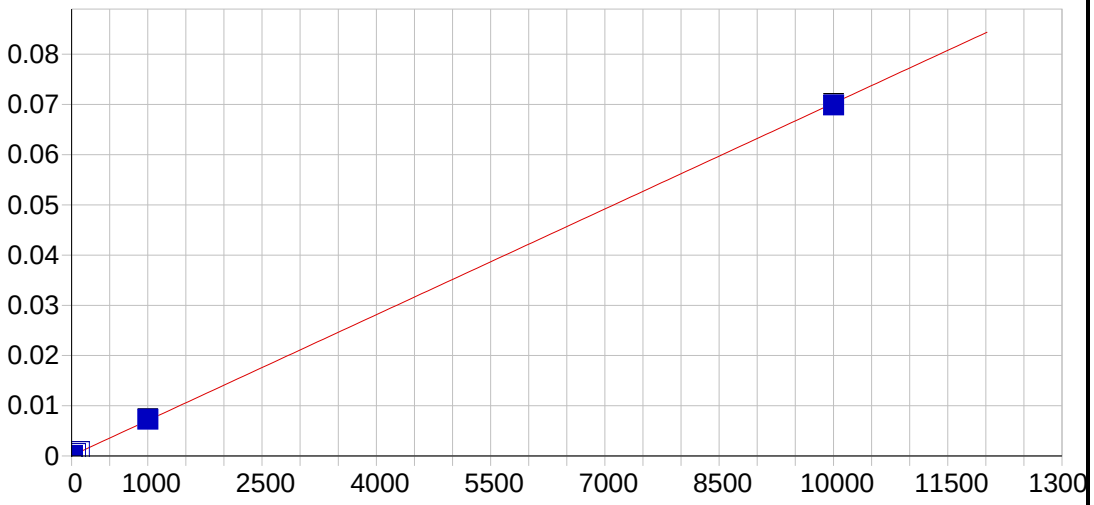


Cr 283.563 {119}

Date of Fit:	11/19/2010 10:07:29	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000032	Re-Slope:	1.000000
A1 (Gain):	0.000012	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999991	Status:	OK.
Std Error of Est:	0.000004		
Predicted MDL:	5.913434		
Predicted MQL:	19.711447		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00108	-.001	.000	.00003	.000	1
CalibStd=50	50.000	48.939	-1.06	-2.12	.00060	.000	1
CalibStd=100	100.00	105.27	5.27	5.27	.00125	.000	1
CalibStd=100	1000.0	1001.2	1.24	.124	.01165	.000	1
CalibStd=100	10000.	9876.7	-123.	-1.23	.11462	.000	1
CalibStd-100	100000.	100120.	118.	.118	1.1600	.015	1

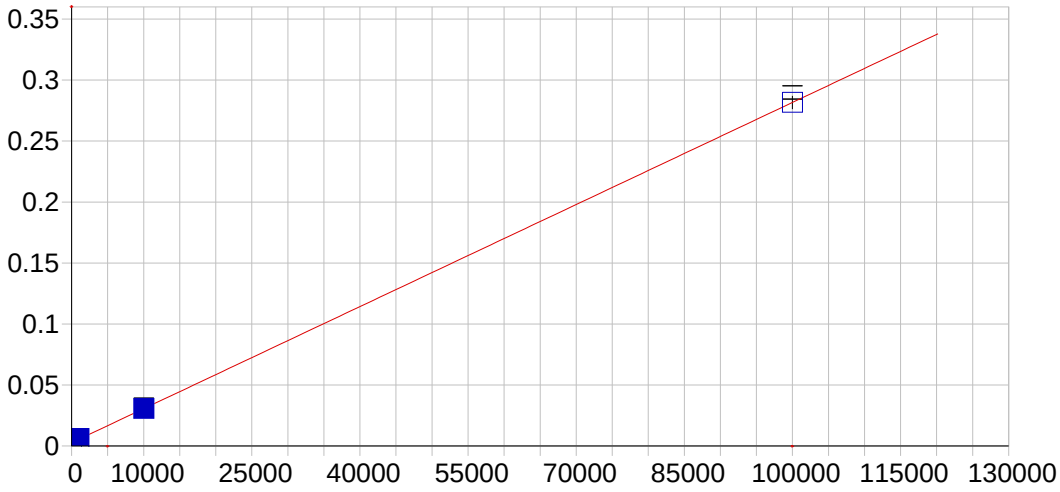


Cu 224.700 {450}

Date of Fit:	11/19/2010 10:01:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000057	Re-Slope:	1.000000
A1 (Gain):	0.000007	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999820	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	1.856968		
Predicted MQL:	6.189893		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00329	-.003	.000	.00006	.000	1
CalibStd=100	1000.0	1030.8	30.8	3.08	.00729	.000	1
CalibStd=50	50.000	56.924	6.92	13.8	.00046	.000	1
CalibStd=100	100.00	111.17	11.2	11.2	.00084	.000	1
CalibStd=5	5.0000	5.8485	.849	17.0	.00010	.000	1
CalibStd=10	10.000	12.118	2.12	21.2	.00014	.000	1
CalibStd=100	10000.	9948.2	-51.8	-.518	.06990	.000	1

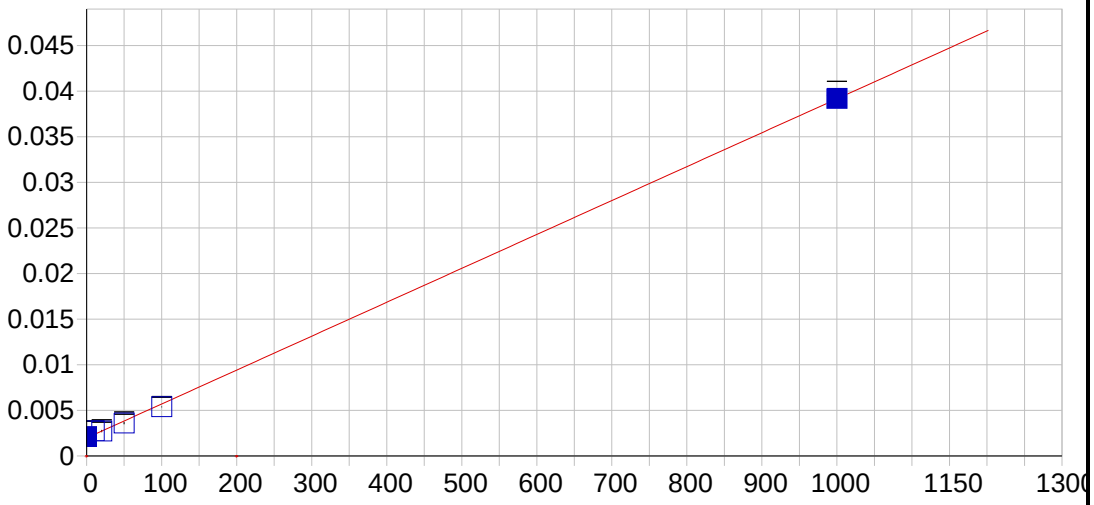


Cu 324.754 {104}

Date of Fit:	11/19/2010 10:07:29	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.002672	Re-Slope:	1.000000
A1 (Gain):	0.000003	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999993	Status:	OK.
Std Error of Est:	0.000610		
Predicted MDL:	32.871242		
Predicted MQL:	109.570806		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-227.84	-228.	.000	.00204	.000	1
CalibStd=100	10000.	10025.	24.9	.249	.03064	.000	1
CalibStd-100	100000.	99995.	-4.56	-.005	.28166	.005	1
CalibStd=100	1000.0	1207.5	208.	20.8	.00604	.000	1

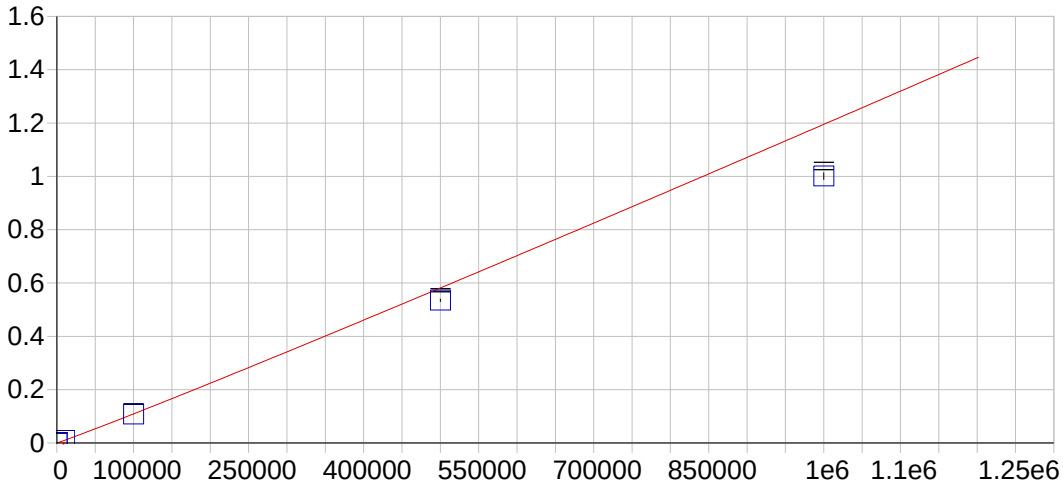


Cu 327.396 {103}

Date of Fit:	11/19/2010 09:55:50	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.001979	Re-Slope:	1.000000
A1 (Gain):	0.000037	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999848	Status:	OK.
Std Error of Est:	0.000287		
Predicted MDL:	4.993249		
Predicted MQL:	16.644164		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	3.5451	3.55	.000	.00211	.000	1
CalibStd=20	20.000	20.022	.022	.112	.00272	.000	1
CalibStd=50	50.000	43.507	-6.49	-13.0	.00360	.000	1
CalibStd=100	100.00	91.439	-8.56	-8.56	.00538	.000	1
CalibStd=10	10.000	20.410	10.4	104.	.00274	.000	1
CalibStd=100	1000.0	1001.1	1.08	.108	.03920	.001	1

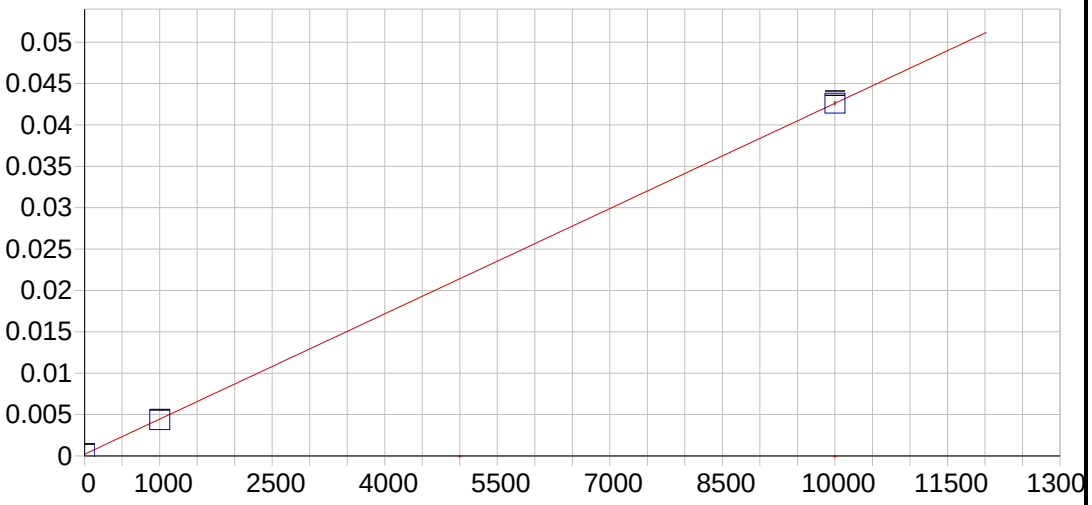


Fe 234.349 {144}

Date of Fit:	11/19/2010 10:25:31	Type of Fit:	Full Fit	Weighting:	1/Conc

A0 (Offset):	0.000079	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.040000		
Correlation:	0.999997	Status:	OK.
Std Error of Est:	0.000006		
Predicted MDL:	59.554381		
Predicted MQL:	198.514603		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.15425	.154	.000	.00008	.000	1
CalibStd=100	10000.	9836.9	-163.	-1.63	.00985	.000	1
CalibStd=500	500000.	461880.	-38100.	-7.62	.53522	.006	1
CalibStd=100	100000.	98825.	-1180.	-1.18	.10773	.001	1
CalibStd-100	1000000.	843240.	-157000.	-15.7	1.0009	.014	1
CalibStd=100	1000.0	908.91	-91.1	-9.11	.00090	.000	1

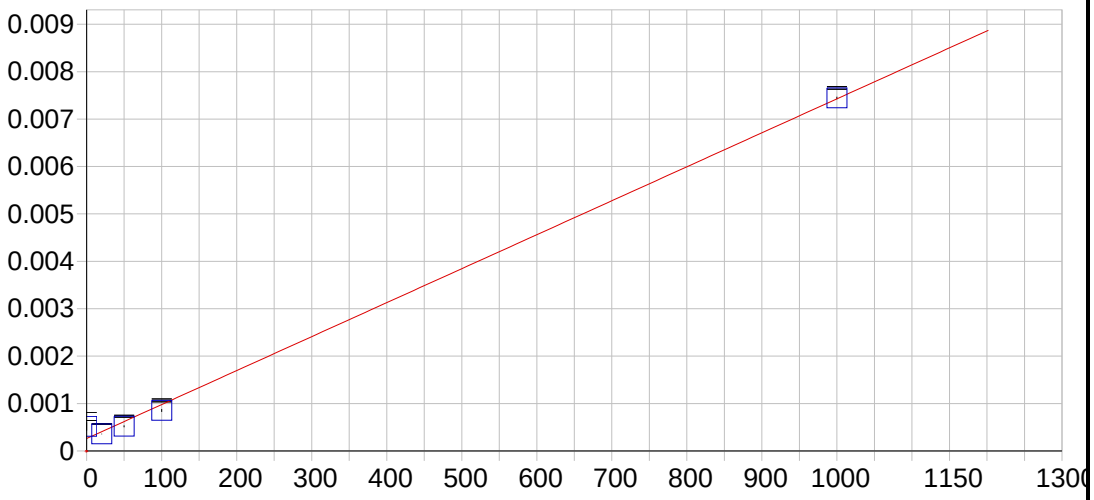


Fe 239.562 {141}

Date of Fit:	11/19/2010 10:01:38	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000214	Re-Slope:	1.000000
A1 (Gain):	0.000004	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999995	Status:	OK.
Std Error of Est:	0.000108		
Predicted MDL:	6.851589		
Predicted MQL:	22.838631		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	16.954	17.0	.000	.00029	.000	1
CalibStd=100	1000.0	981.16	-18.8	-1.88	.00437	.000	1
CalibStd=100	10000.	10002.	1.88	.019	.04262	.000	1

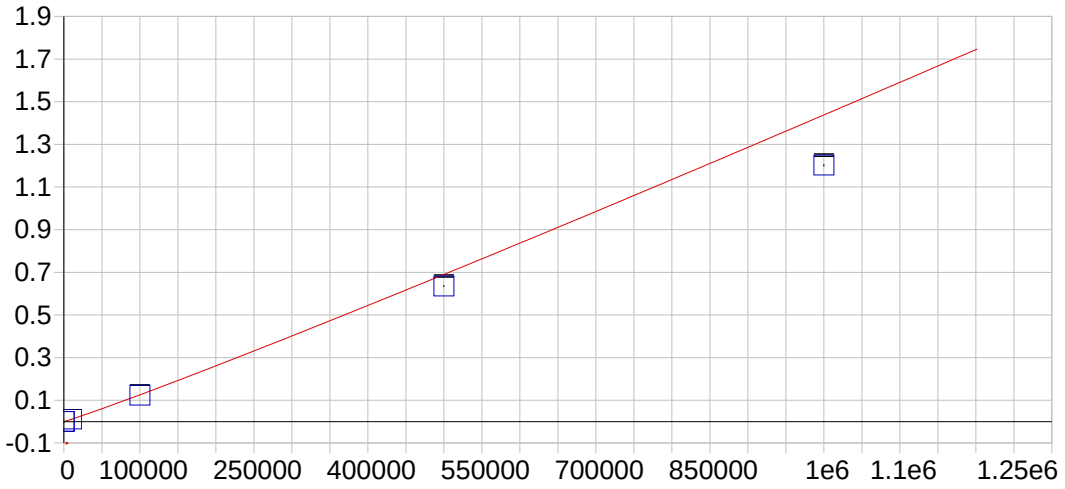


Fe 259.940 {130}

Date of Fit:	11/22/2010 08:35:21	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000262	Re-Slope:	1.000000
A1 (Gain):	0.000007	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998778	Status:	OK.
Std Error of Est:	0.000176		
Predicted MDL:	7.379404		
Predicted MQL:	24.598015		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	35.459	35.5	.000	.00052	.000	1
CalibStd=100	1000.0	1002.6	2.58	.258	.00745	.000	1
CalibStd=50	50.000	36.076	-13.9	-27.8	.00052	.000	1
CalibStd=100	100.00	82.447	-17.6	-17.6	.00085	.000	1
CalibStd=20	20.000	13.435	-6.56	-32.8	.00036	.000	1

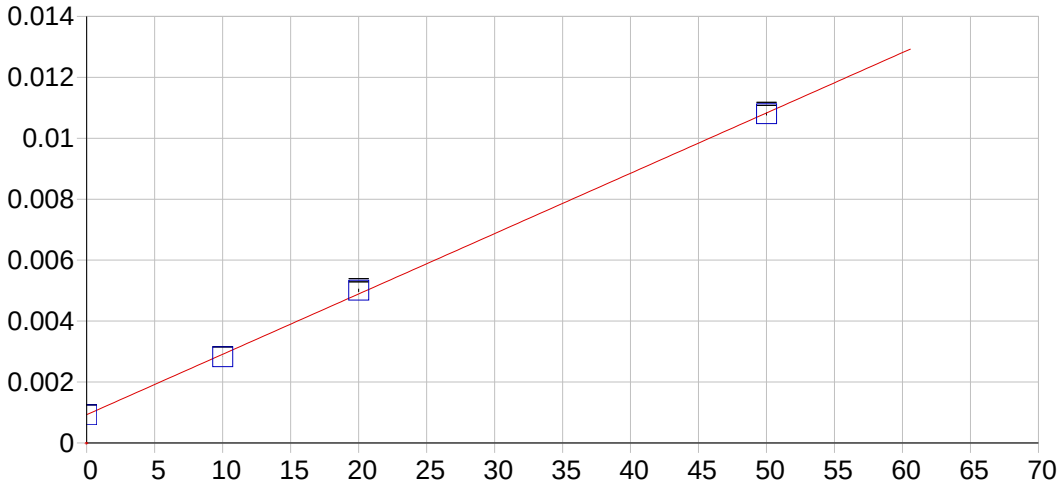


Mg 279.079 {121}

Date of Fit:	11/19/2010 10:25:31	Type of Fit:	Full Fit	Weighting:	None

A0 (Offset):	0.000418	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.060000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000514		
Predicted MDL:	101.517204		
Predicted MQL:	338.390681		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00000	.000	1
CalibStd=100	100000.	98688.	-1310.	-1.31	.12386	.000	1
CalibStd=500	500000.	462780.	-37200.	-7.44	.63554	.005	1
CalibStd=100	10000.	10479.	479.	4.79	.01188	.000	1
CalibStd-100	1000000.	844490.	-156000.	-15.6	1.2020	.006	1
CalibStd=100	1000.0	822.24	-178.	-17.8	.00119	.000	1

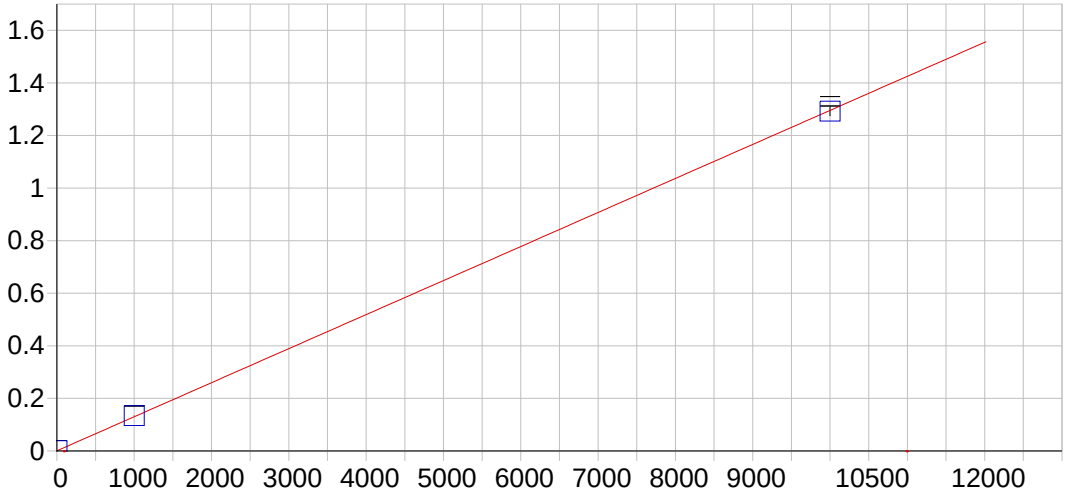


Mg 279.553 {121}

Date of Fit:	11/19/2010 09:45:25	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000928	Re-Slope:	1.000000
A1 (Gain):	0.000198	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999797	Status:	OK.
Std Error of Est:	0.000106		
Predicted MDL:	0.169631		
Predicted MQL:	0.565436		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.03419	-.034	.000	.00092	.000	1
CalibStd=50	50.000	49.839	-.161	-.321	.01080	.000	1
CalibStd=20	20.000	20.608	.608	3.04	.00501	.000	1
CalibStd=10	10.000	9.5866	-.413	-4.13	.00283	.000	1

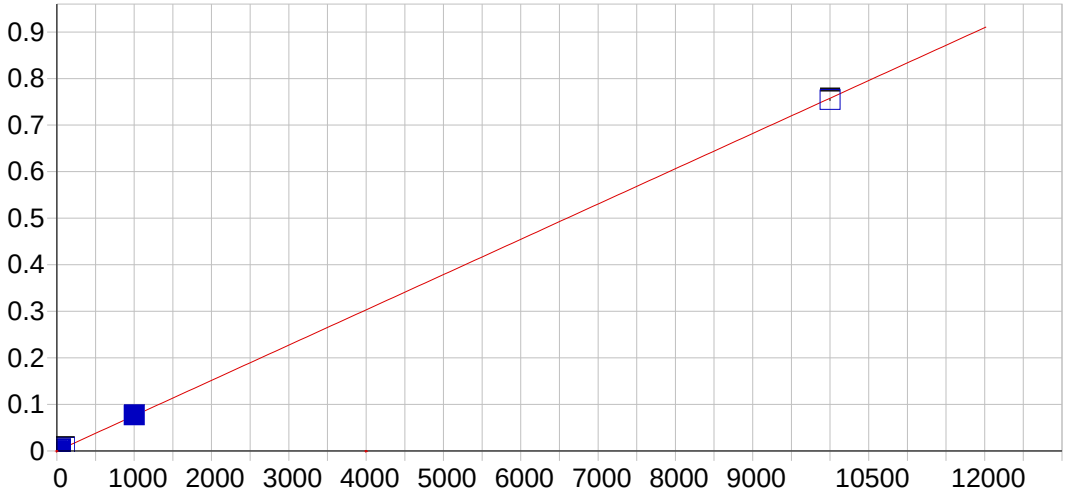


Mg 280.270 {120}

Date of Fit:	11/19/2010 10:01:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000713	Re-Slope:	1.000000
A1 (Gain):	0.000129	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999964	Status:	OK.
Std Error of Est:	0.000199		
Predicted MDL:	0.346747		
Predicted MQL:	1.155825		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.02412	-.024	.000	.00071	.000	1
CalibStd=100	1000.0	1026.8	26.8	2.68	.13368	.001	1
CalibStd=100	10000.	9973.2	-26.8	-.268	1.2922	.018	1

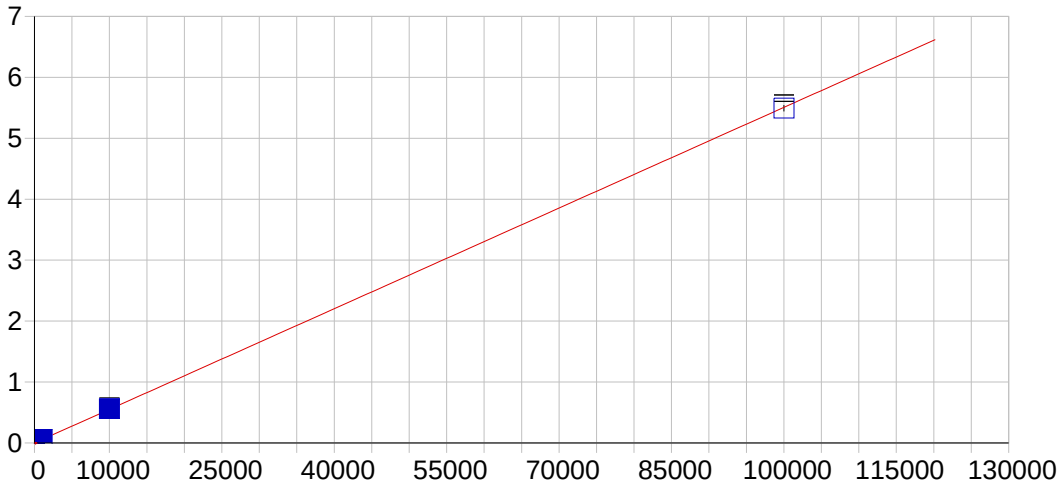


Mn 257.610 {131}

Date of Fit:	11/19/2010 10:01:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000007	Re-Slope:	1.000000
A1 (Gain):	0.000076	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999886	Status:	OK.
Std Error of Est:	0.000004		
Predicted MDL:	0.863768		
Predicted MQL:	2.879228		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00038	.000	.000	.00001	.000	1
CalibStd=10	10.000	10.950	.950	9.50	.00084	.000	1
CalibStd=50	50.000	54.773	4.77	9.55	.00416	.000	1
CalibStd=20	20.000	21.968	1.97	9.84	.00167	.000	1
CalibStd=100	100.00	110.94	10.9	10.9	.00841	.000	1
CalibStd=5	5.0000	5.0642	.064	1.28	.00039	.000	1
CalibStd=1	1.0000	.95384	-.046	-4.62	.00008	.000	1
CalibStd=100	1000.0	1021.4	21.4	2.14	.07741	.001	1
CalibStd=100	10000.	9960.0	-40.0	-.400	.75479	.003	1

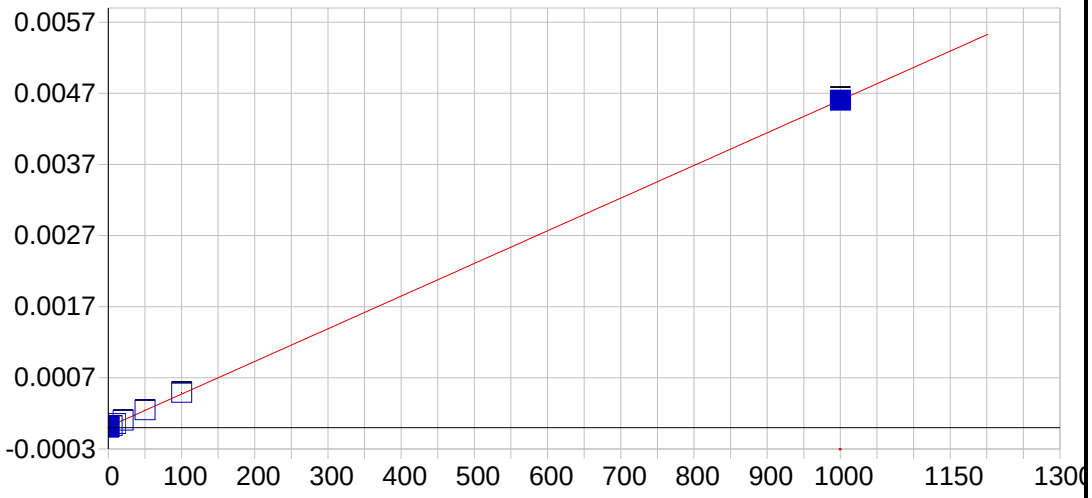


Mn 259.373 {130}

Date of Fit:	11/19/2010 10:07:29	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000051	Re-Slope:	1.000000
A1 (Gain):	0.000055	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999970	Status:	OK.
Std Error of Est:	0.000200		
Predicted MDL:	1.150590		
Predicted MQL:	3.835299		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.05477	-.055	.000	.00005	.000	1
CalibStd=100	10000.	10217.	217.	2.17	.56558	.003	1
CalibStd-100	100000.	99746.	-254.	-.254	5.4931	.051	1
CalibStd=100	1000.0	1035.6	35.6	3.56	.05737	.000	1

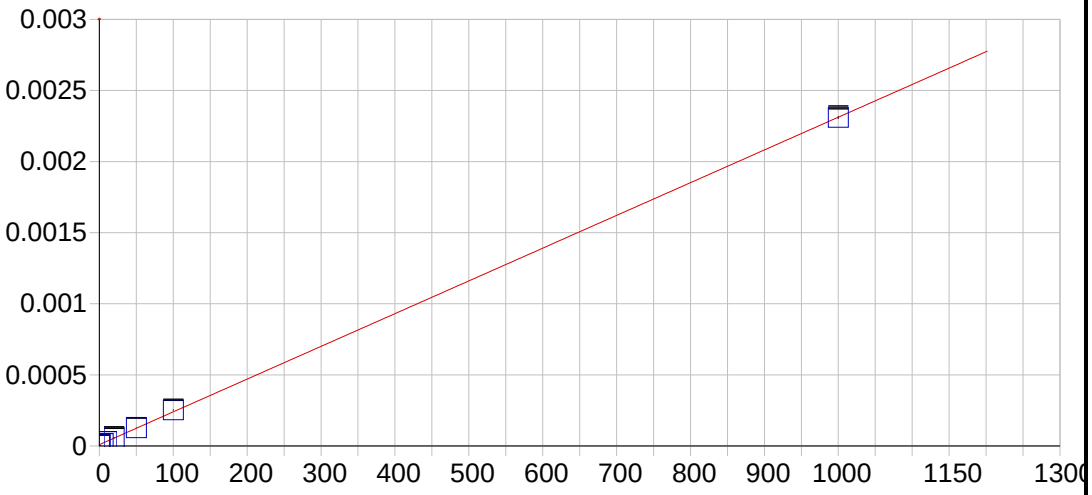


Mo 202.030 {467}

Date of Fit:	11/19/2010 09:55:50	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000012	Re-Slope:	1.000000
A1 (Gain):	0.000005	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999975	Status:	OK.
Std Error of Est:	0.000012		
Predicted MDL:	1.831375		
Predicted MQL:	6.104584		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-1.9551	-1.96	.000	.00000	.000	1
CalibStd=50	50.000	51.759	1.76	3.52	.00025	.000	1
CalibStd=1	1.0000	-.60113	-1.60	-160.	.00001	.000	1
CalibStd=20	20.000	20.004	.004	.021	.00010	.000	1
CalibStd=10	10.000	9.2848	-.715	-7.15	.00005	.000	1
CalibStd=100	100.00	105.23	5.23	5.23	.00050	.000	1
CalibStd=5	5.0000	2.8707	-2.13	-42.6	.00002	.000	1
CalibStd=100	1000.0	999.41	-.592	-.059	.00460	.000	1

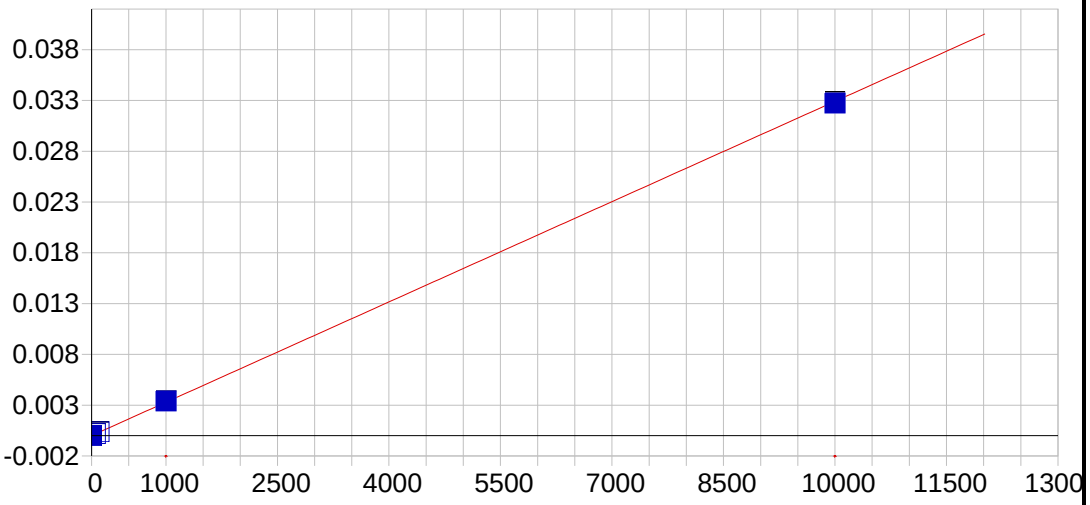


Mo 203.844 {465}

Date of Fit:	11/19/2010 09:55:50	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000009	Re-Slope:	1.000000
A1 (Gain):	0.000002	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999968	Status:	OK.
Std Error of Est:	0.000007		
Predicted MDL:	3.745062		
Predicted MQL:	12.483540		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-1.7304	-1.73	.000	.00001	.000	1
CalibStd=50	50.000	51.210	1.21	2.42	.00013	.000	1
CalibStd=1	1.0000	-1.2510	-2.25	-225.	.00001	.000	1
CalibStd=20	20.000	21.247	1.25	6.23	.00006	.000	1
CalibStd=10	10.000	8.7011	-1.30	-13.0	.00003	.000	1
CalibStd=100	100.00	105.84	5.84	5.84	.00025	.000	1
CalibStd=5	5.0000	2.6282	-2.37	-47.4	.00002	.000	1
CalibStd=100	1000.0	999.36	-.642	-.064	.00231	.000	1

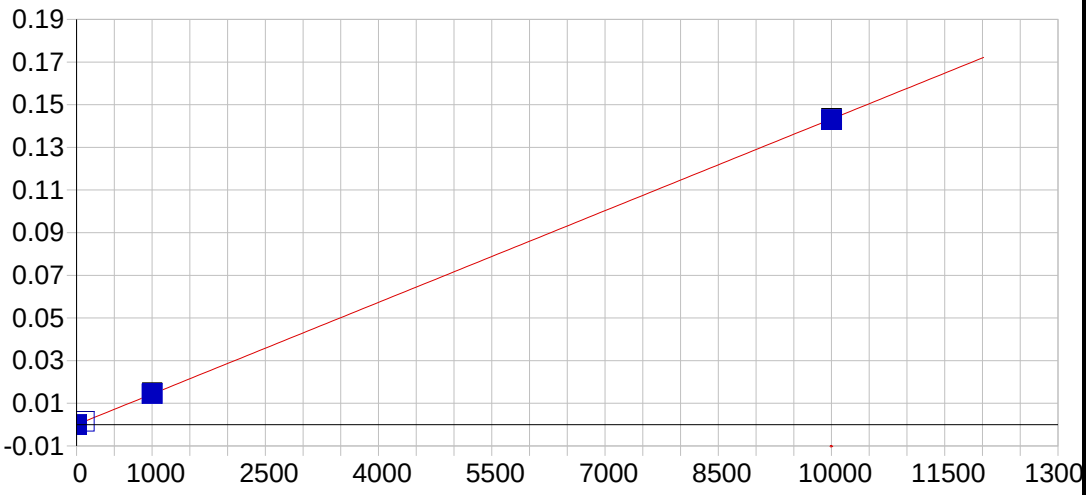


Mo 204.598 {465}

Date of Fit:	11/19/2010 10:01:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000002	Re-Slope:	1.000000
A1 (Gain):	0.000003	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999832	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	2.908810		
Predicted MQL:	9.696033		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.01425	-.014	.000	.00000	.000	1
CalibStd=100	1000.0	1034.1	34.1	3.41	.00340	.000	1
CalibStd=100	10000.	9947.4	-52.6	-.526	.03274	.000	1
CalibStd=50	50.000	57.156	7.16	14.3	.00019	.000	1
CalibStd=100	100.00	111.30	11.3	11.3	.00036	.000	1

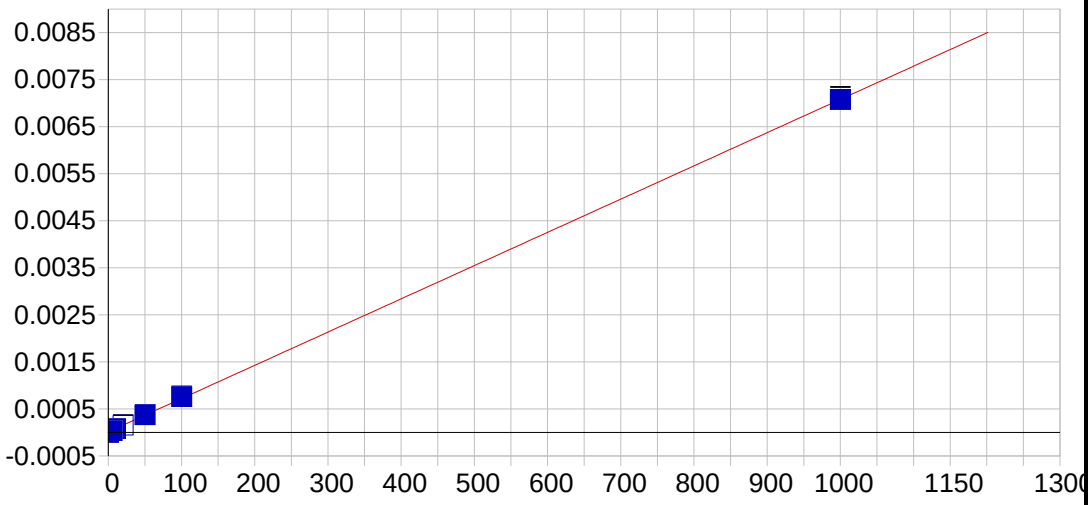


Ni 221.647 {452}

Date of Fit:	11/19/2010 10:01:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000004	Re-Slope:	1.000000
A1 (Gain):	0.000014	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999962	Status:	OK.
Std Error of Est:	0.000006		
Predicted MDL:	1.189901		
Predicted MQL:	3.966336		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00882	-.009	.000	.00000	.000	1
CalibStd=100	10000.	9977.9	-22.1	-.221	.14299	.000	1
CalibStd=100	100.00	107.59	7.59	7.59	.00155	.000	1
CalibStd=100	1000.0	1014.5	14.5	1.45	.01454	.000	1

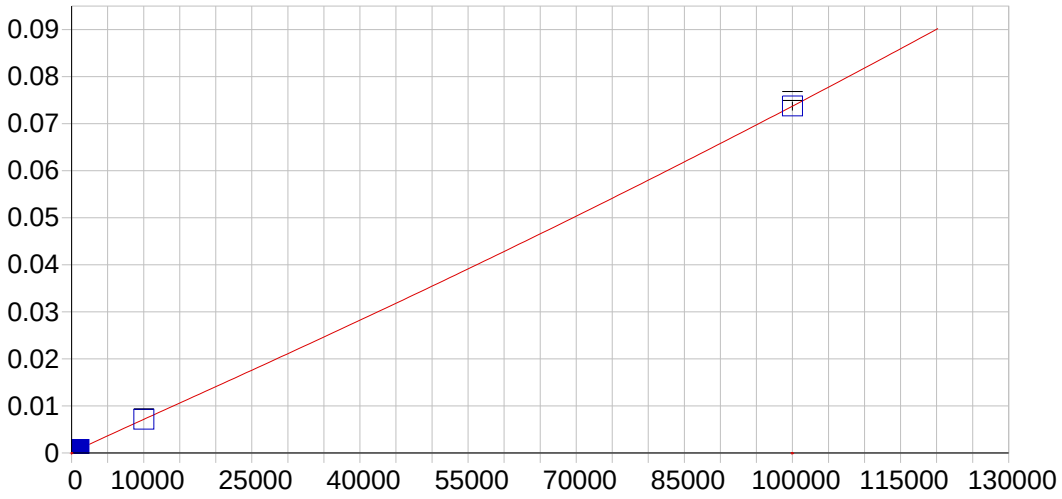


Ni 231.604 {445}

Date of Fit:	11/19/2010 09:55:50	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000013	Re-Slope:	1.000000
A1 (Gain):	0.000007	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999973	Status:	OK.
Std Error of Est:	0.000021		
Predicted MDL:	1.827872		
Predicted MQL:	6.092908		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-2.2584	-2.26	.000	.00000	.000	1
CalibStd=50	50.000	50.931	.931	1.86	.00037	.000	1
CalibStd=20	20.000	19.699	-.301	-1.50	.00015	.000	1
CalibStd=10	10.000	8.6034	-1.40	-14.0	.00007	.000	1
CalibStd=100	100.00	105.63	5.63	5.63	.00076	.000	1
CalibStd=5	5.0000	2.9728	-2.03	-40.5	.00003	.000	1
CalibStd=100	1000.0	999.42	-.580	-.058	.00708	.000	1

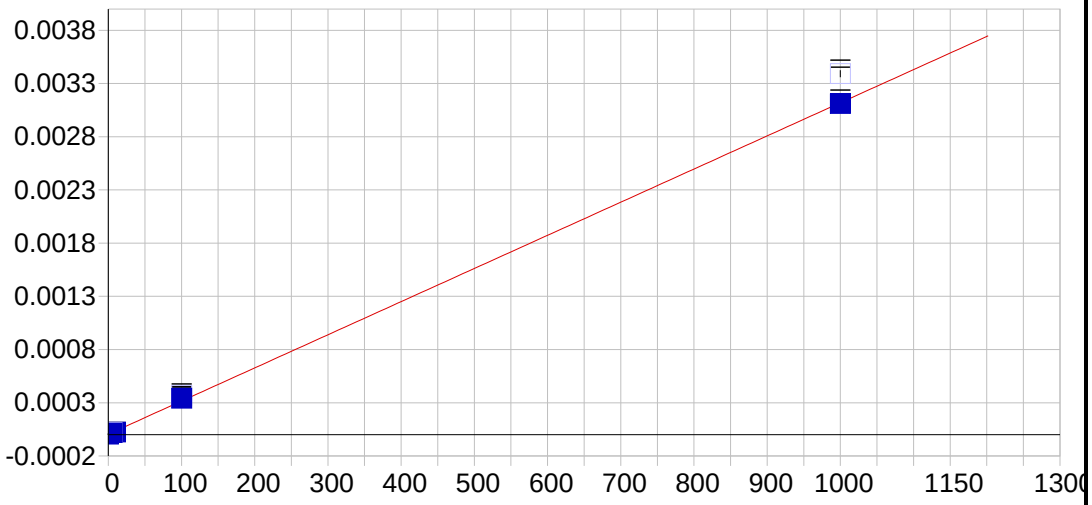


Pb 216.999 {455}

Date of Fit:	11/19/2010 10:07:29	Type of Fit:	Full Fit	Weighting:	None

A0 (Offset):	0.000009	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	0.960000		
Correlation:	1.000000	Status:	Warning Positive Curvature
Std Error of Est:	0.000000		
Predicted MDL:	14.862636		
Predicted MQL:	49.542121		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.20284	.203	.000	.00001	.000	1
CalibStd=100	1000.0	999.66	-.336	-.034	.00078	.000	1
CalibStd=100	10000.	10000.	.044	.000	.00714	.000	1
CalibStd-100	100000.	100000.	.000	.000	.07373	.001	1

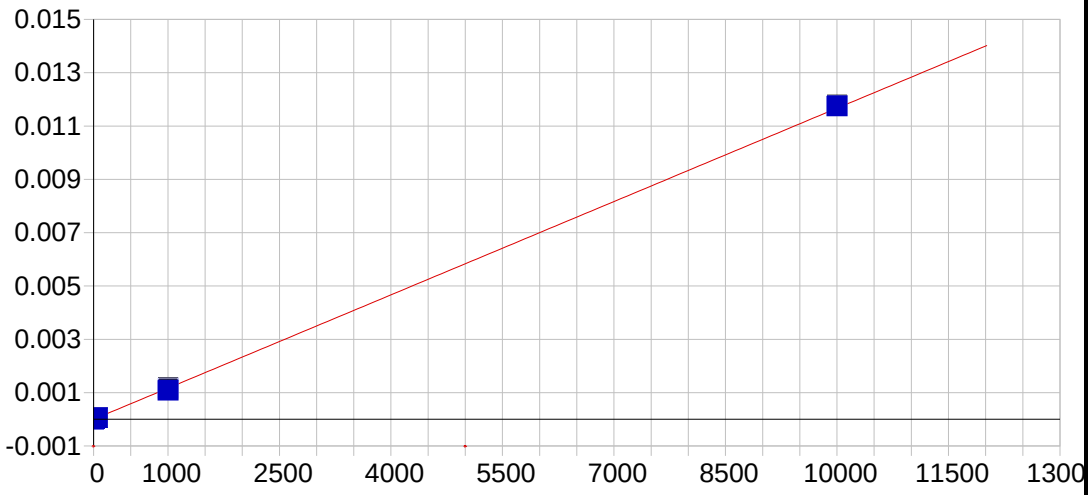


Pb 220.353 {453}

Date of Fit:	11/19/2010 09:55:50	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000004	Re-Slope:	1.000000
A1 (Gain):	0.000003	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999078	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	5.326749		
Predicted MQL:	17.755828		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00296	.003	.000	.00000	.000	1
CalibStd=10	10.000	6.3421	-3.66	-36.6	.00003	.000	1
CalibStd=100	100.00	107.99	7.99	7.99	.00037	.000	1
CalibStd=5	5.0000	3.4833	-1.52	-30.3	.00002	.000	1
CalibStd=100	1000.0	997.19	-2.81	-.281	.00339	.000	1

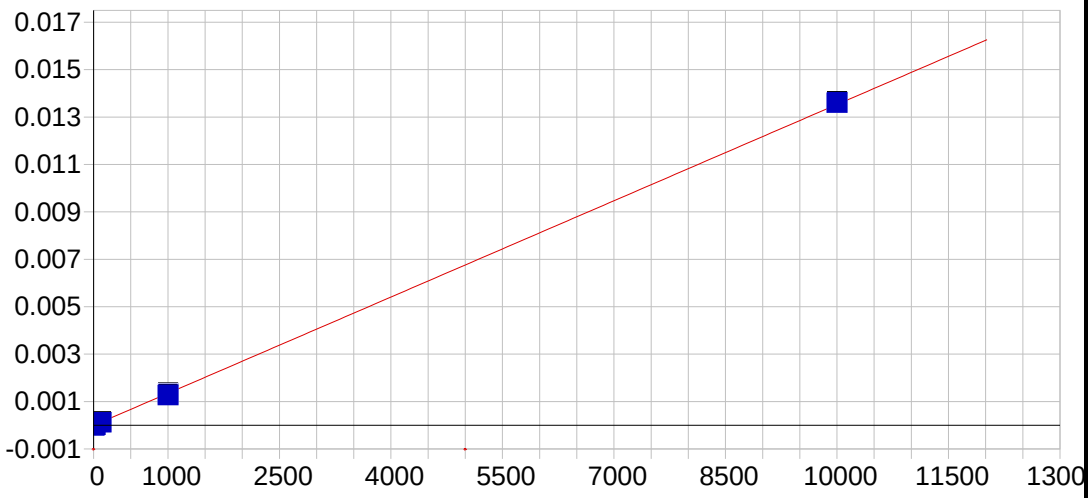


Sb 206.833 {463}

Date of Fit:	11/19/2010 10:01:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999757	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	8.929338		
Predicted MQL:	29.764461		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00022	.000	.000	.00000	.000	1
CalibStd=100	1000.0	932.78	-67.2	-6.72	.00117	.000	1
CalibStd=10	10.000	11.429	1.43	14.3	.00001	.000	1
CalibStd=50	50.000	46.968	-3.03	-6.06	.00006	.000	1
CalibStd=100	10000.	10074.	73.6	.736	.01175	.000	1

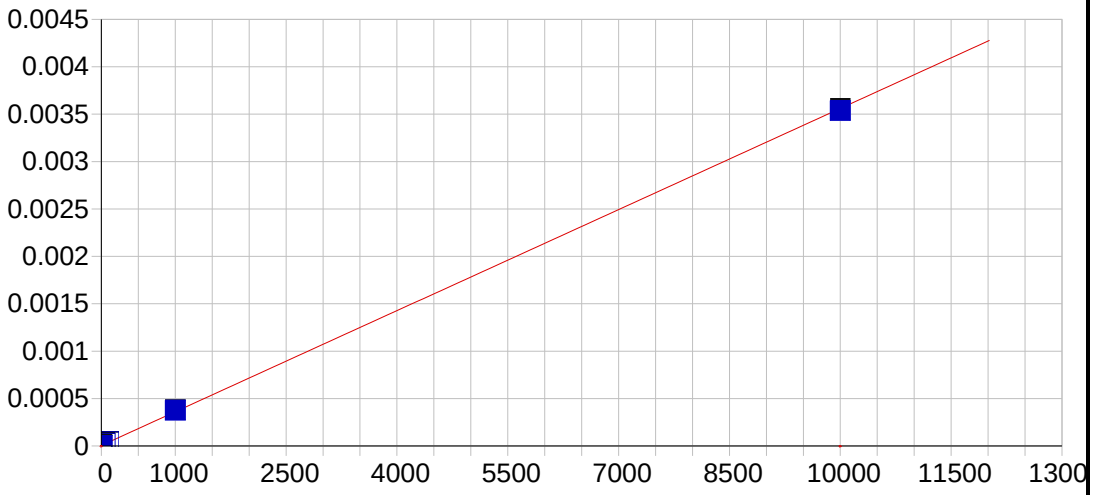


Sb 217.581 {455}

Date of Fit:	11/19/2010 10:01:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000007	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999849	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	11.286894		
Predicted MQL:	37.622979		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00241	.002	.000	-.00001	.000	1
CalibStd=100	1000.0	947.38	-52.6	-5.26	.00134	.000	1
CalibStd=20	20.000	18.047	-1.95	-9.76	.00002	.000	1
CalibStd=10	10.000	8.9923	-1.01	-10.1	.00001	.000	1
CalibStd=100	100.00	100.47	.472	.472	.00014	.000	1
CalibStd=100	10000.	10058.	57.9	.579	.01361	.000	1

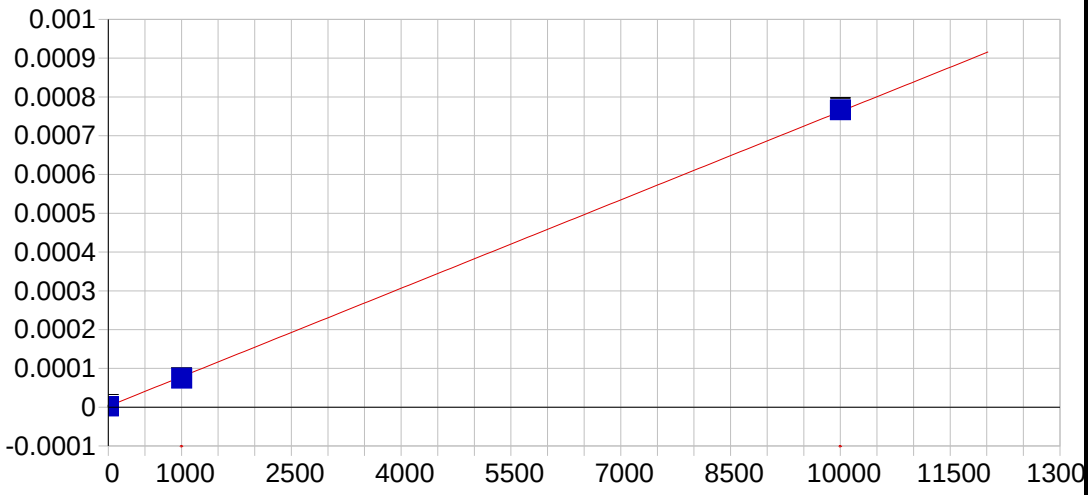


Se 196.090 {472}

Date of Fit:	11/19/2010 10:01:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000005	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999503	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	20.775374		
Predicted MQL:	69.251247		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00319	.003	.000	.00000	.000	1
CalibStd=50	50.000	62.295	12.3	24.6	.00003	.000	1
CalibStd=100	1000.0	1045.2	45.2	4.52	.00038	.000	1
CalibStd=5	5.0000	.60644	-4.39	-87.9	.00000	.000	1
CalibStd=10	10.000	8.3467	-1.65	-16.5	.00001	.000	1
CalibStd=100	100.00	112.20	12.2	12.2	.00004	.000	1
CalibStd=100	10000.	9936.3	-63.7	-.637	.00354	.000	1

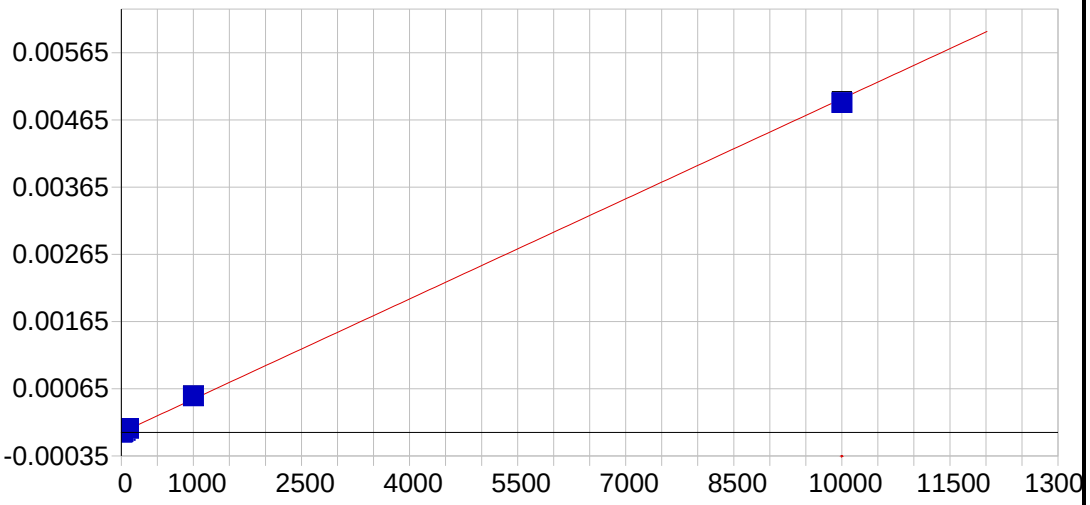


Se 206.279 {463}

Date of Fit:	11/19/2010 10:01:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000003	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999861	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	115.247644		
Predicted MQL:	384.158815		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.04741	.047	.000	.00000	.000	1
CalibStd=100	1000.0	947.33	-52.7	-5.27	.00007	.000	1
CalibStd=100	10000.	10053.	52.7	.527	.00077	.000	1

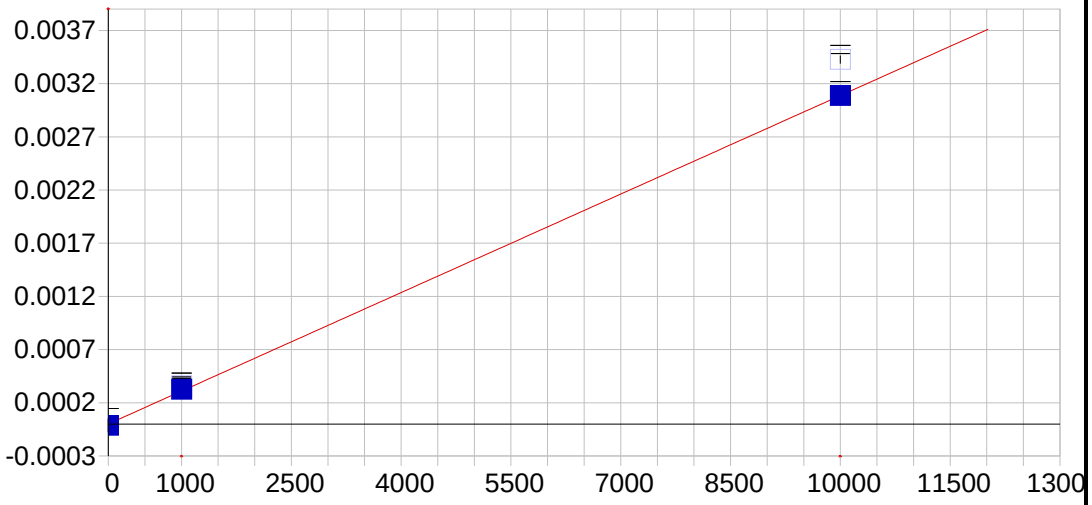


Tl 190.856 {477}

Date of Fit:	11/19/2010 10:01:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999258	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	16.881577		
Predicted MQL:	56.271922		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00401	-.004	.000	.00000	.000	1
CalibStd=50	50.000	56.611	6.61	13.2	.00003	.000	1
CalibStd=100	1000.0	1094.8	94.8	9.48	.00054	.000	1
CalibStd=20	20.000	16.057	-3.94	-19.7	.00001	.000	1
CalibStd=100	100.00	120.53	20.5	20.5	.00006	.000	1
CalibStd=10	10.000	11.782	1.78	17.8	.00001	.000	1
CalibStd=100	10000.	9880.3	-120.	-1.20	.00491	.000	1

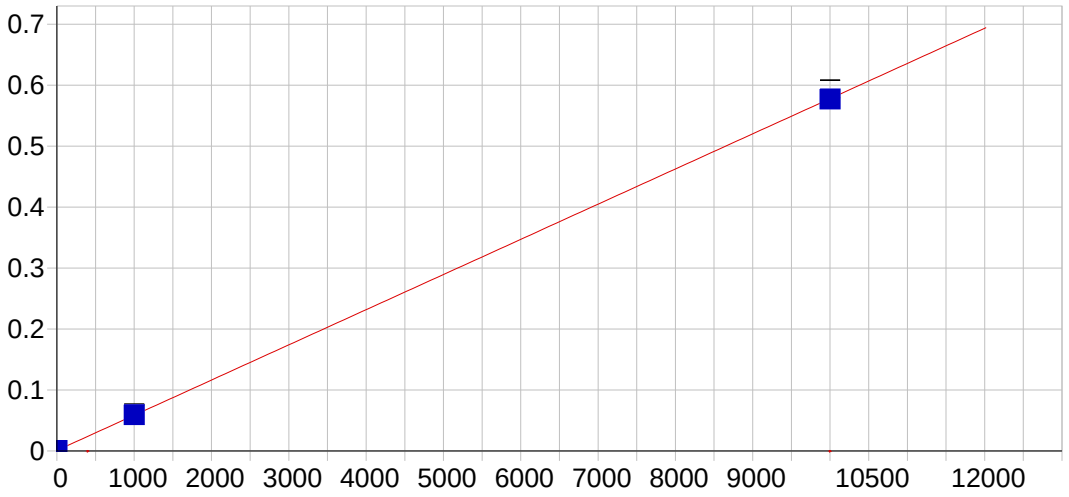


Tl 276.787 {122}

Date of Fit:	11/19/2010 10:01:38	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000001	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999970	Status:	OK.
Std Error of Est:	0.000021		
Predicted MDL:	255.056925		
Predicted MQL:	850.189751		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-44.878	-44.9	.000	-.00001	.000	1
CalibStd=100	1000.0	1049.9	49.9	4.99	.00036	.000	1
CalibStd=100	10000.	9995.0	-4.99	-.050	.00343	.000	1

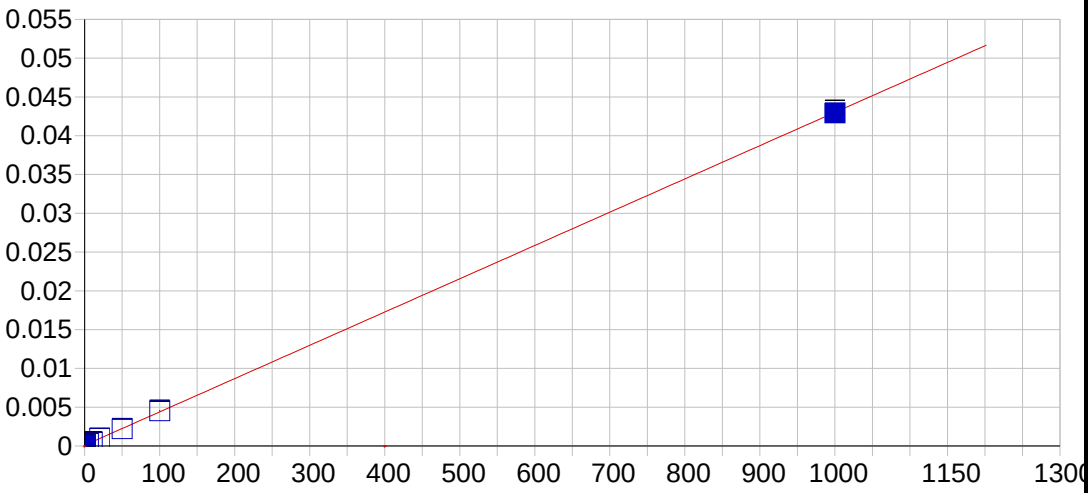


V 290.882 {116}

Date of Fit:	11/19/2010 10:01:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000927	Re-Slope:	1.000000
A1 (Gain):	0.000058	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999992	Status:	OK.
Std Error of Est:	0.000043		
Predicted MDL:	1.788995		
Predicted MQL:	5.963317		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.01160	-.012	.000	.00093	.000	1
CalibStd=100	1000.0	1012.9	12.9	1.29	.05939	.001	1
CalibStd=100	10000.	9987.1	-12.9	-.129	.57732	.014	1

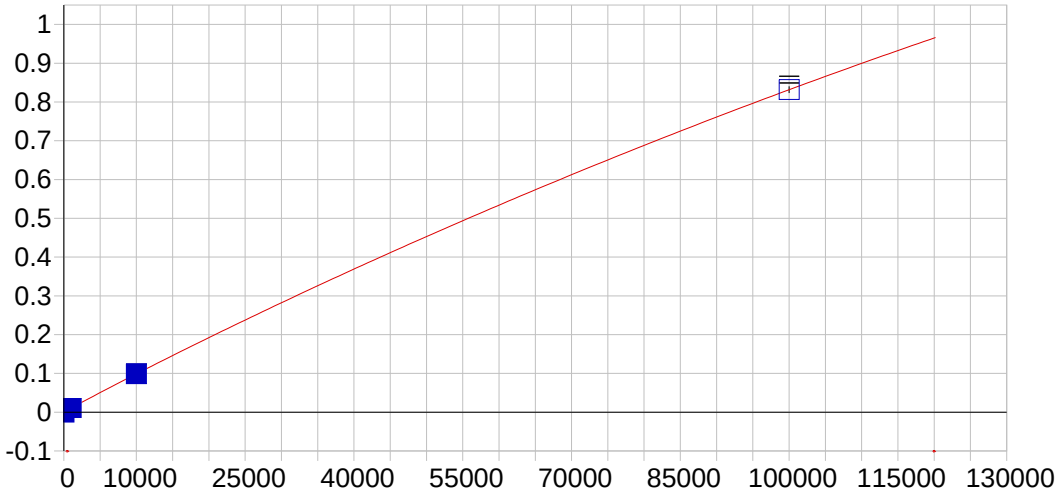


V 292.402 {115}

Date of Fit:	11/19/2010 09:55:50	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000101	Re-Slope:	1.000000
A1 (Gain):	0.000043	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999897	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	2.389161		
Predicted MQL:	7.963868		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00022	.000	.000	.00010	.000	1
CalibStd=50	50.000	49.232	-.768	-1.54	.00221	.000	1
CalibStd=100	1000.0	998.17	-1.83	-.183	.04294	.000	1
CalibStd=1	1.0000	.76187	-.238	-23.8	.00013	.000	1
CalibStd=20	20.000	20.100	.100	.499	.00096	.000	1
CalibStd=5	5.0000	5.3554	.355	7.11	.00033	.000	1
CalibStd=10	10.000	9.2883	-.712	-7.12	.00050	.000	1
CalibStd=100	100.00	103.09	3.09	3.09	.00452	.000	1

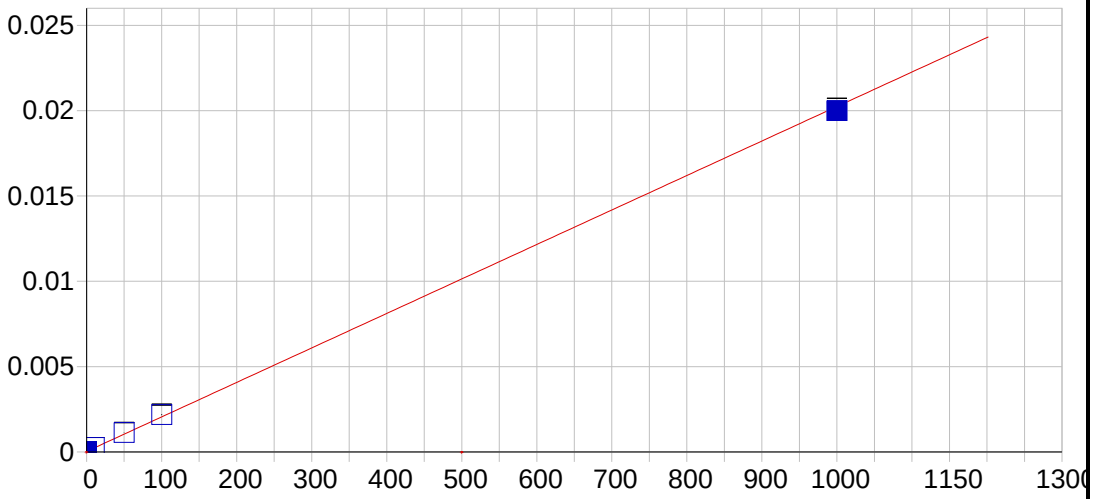


Zn 206.200 {463}

Date of Fit:	11/19/2010 10:07:29	Type of Fit:	Full Fit	Weighting:	None

A0 (Offset):	-0.000013	Re-Slope:	1.000000
A1 (Gain):	0.000012	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	0.980000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.722657		
Predicted MQL:	2.408858		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
CalibStd=100	10000.	10000.	.370	.004	.09881	.000	1
CalibStd-100	100000.	100000.	-.005	.000	.83160	.009	1
Blank	.00000	2.2816	2.28	.000	.00001	.000	1
CalibStd=100	1000.0	997.02	-2.98	-.298	.01043	.000	1

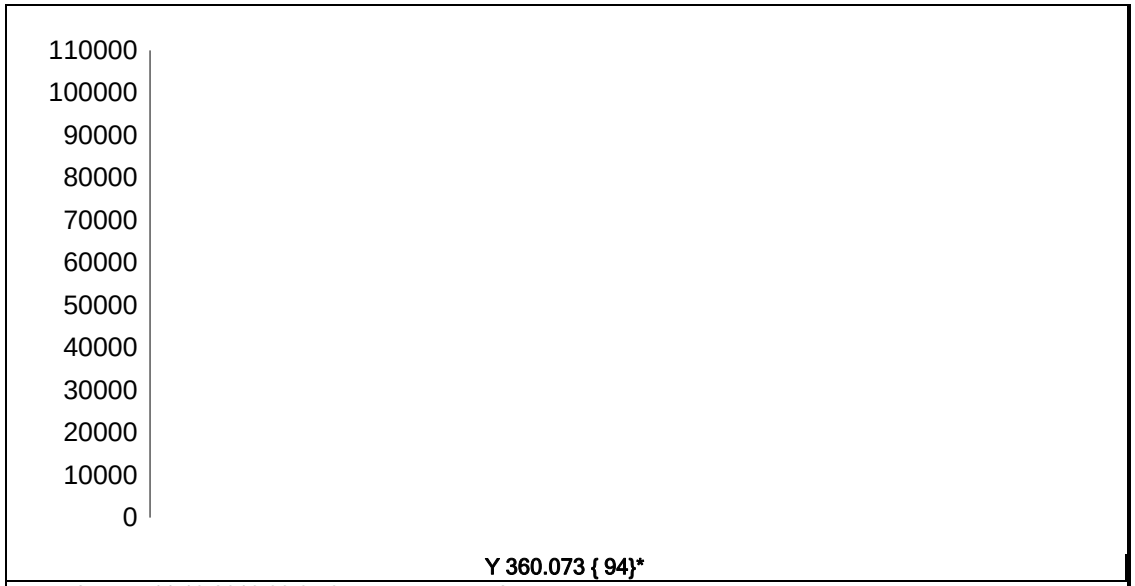


Zn 213.856 {458}

Date of Fit:	11/19/2010 09:55:50	Type of Fit:	Linear	Weighting:	1/Conc

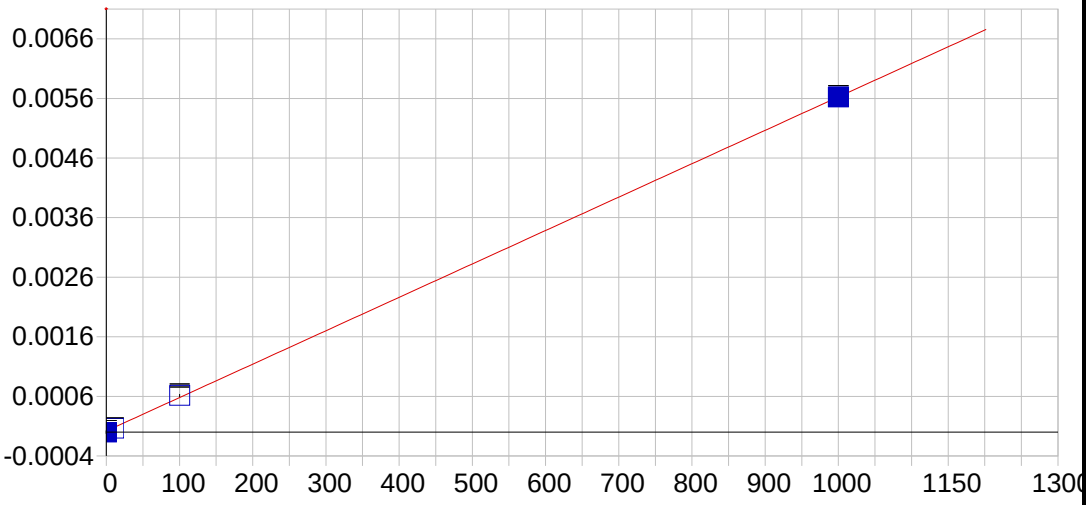
A0 (Offset):	0.000033	Re-Slope:	1.000000
A1 (Gain):	0.000020	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999538	Status:	OK.
Std Error of Est:	0.000003		
Predicted MDL:	0.493507		
Predicted MQL:	1.645022		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00215	-.002	.000	.00003	.000	1
CalibStd=100	100.00	106.68	6.68	6.68	.00219	.000	1
CalibStd=50	50.000	54.676	4.68	9.35	.00114	.000	1
CalibStd=10	10.000	10.668	.668	6.68	.00025	.000	1
CalibStd=100	1000.0	987.97	-12.0	-1.20	.02000	.000	1



Date of Fit:	11/19/2010 09:07:07	Type of Fit:	Linear	Weighting:	None	
A0 (Offset):	0.000000		Re-Slope:	1.000000		
A1 (Gain):	0.000000		Y-int:	0.000000		
A2 (Curvature):	0.000000					
n (Exponent):	1.000000					
Correlation:	0.000000		Status:	Warning	Zero Gain	
Std Error of Est:	0.000000					
Predicted MDL:	n/a					
Predicted MQL:	n/a					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	102210.	1120.	1

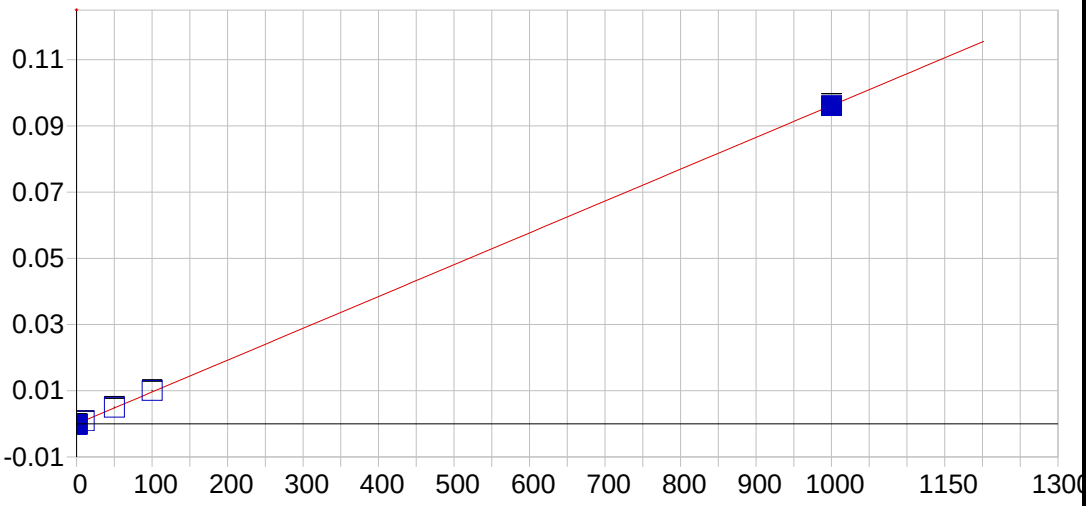


B 249.773 {135}

Date of Fit:	11/19/2010 09:55:50	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000020	Re-Slope:	1.000000
A1 (Gain):	0.000006	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999961	Status:	OK.
Std Error of Est:	0.000029		
Predicted MDL:	9.882118		
Predicted MQL:	32.940395		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-3.4772	-3.48	.000	.00000	.000	1
CalibStd=10	10.000	7.9142	-2.09	-20.9	.00006	.000	1
CalibStd=100	100.00	106.16	6.16	6.16	.00061	.000	1
CalibStd=100	1000.0	999.41	-.595	-.059	.00563	.000	1

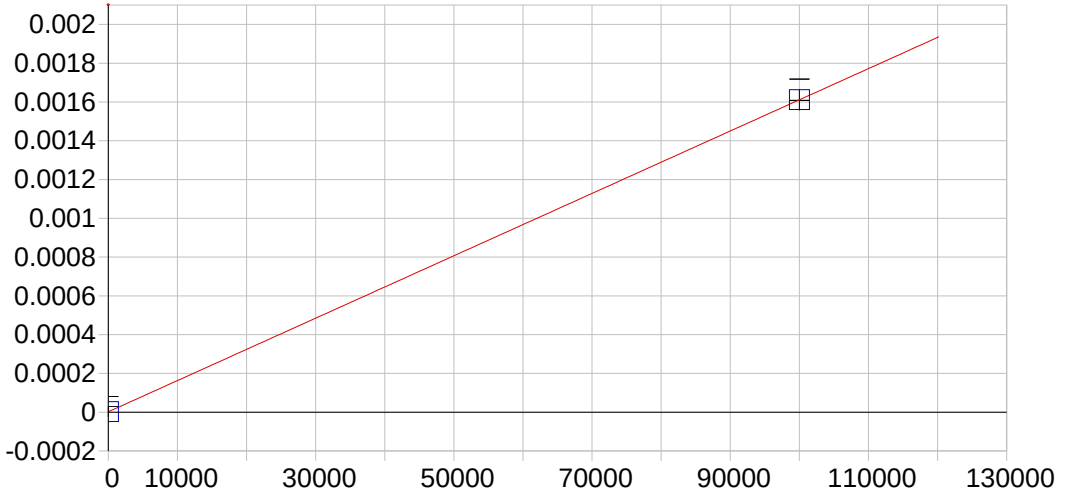


Li 670.784 { 50}

Date of Fit:	11/19/2010 09:55:50	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000003	Re-Slope:	1.000000
A1 (Gain):	0.000096	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999976	Status:	OK.
Std Error of Est:	0.000298		
Predicted MDL:	4.288791		
Predicted MQL:	14.295971		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-2.5589	-2.56	.000	-.00024	.000	1
CalibStd=10	10.000	8.9759	-1.02	-10.2	.00087	.000	1
CalibStd=50	50.000	51.648	1.65	3.30	.00497	.000	1
CalibStd=100	100.00	104.75	4.75	4.75	.01008	.000	1
CalibStd=100	1000.0	999.45	-.545	-.055	.09611	.001	1
CalibStd=1	1.0000	-1.2720	-2.27	-227.	-.00012	.000	1

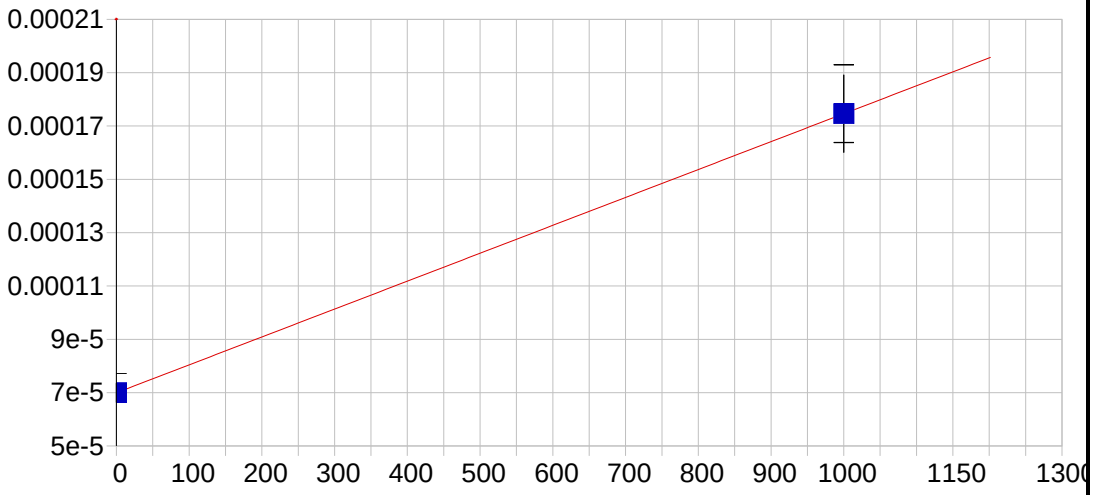


Na 330.298 {102}

Date of Fit:	11/19/2010 10:13:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000002	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	6274.461515		
Predicted MQL:	20914.87171		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00000	.000	1
CalibStd=100	100000.	100000.	.000	.000	.00161	.000	1

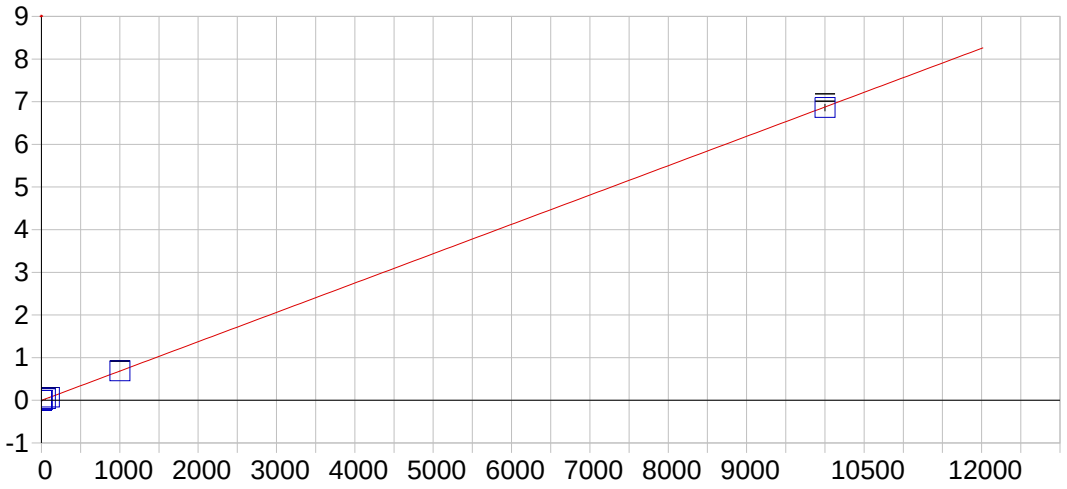


Si 251.611 {134}

Date of Fit:	11/19/2010 09:55:50	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000070	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	562.053924		
Predicted MQL:	1873.513079		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00007	.000	1
CalibStd=100	1000.0	1000.0	.000	.000	.00017	.000	1

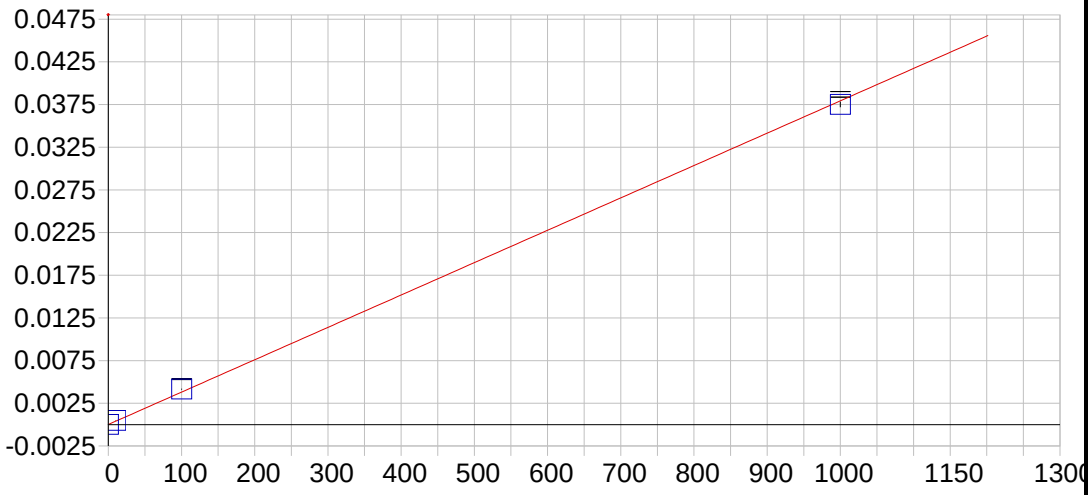


Sr 407.771 { 83}

Date of Fit:	11/19/2010 10:01:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.002599	Re-Slope:	1.000000
A1 (Gain):	0.000688	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999908	Status:	OK.
Std Error of Est:	0.000036		
Predicted MDL:	0.246340		
Predicted MQL:	0.821133		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00063	-.001	.000	-.00260	.000	1
CalibStd=1	1.0000	1.1295	.129	12.9	-.00182	.000	1
CalibStd=5	5.0000	5.5457	.546	10.9	.00122	.000	1
CalibStd=10	10.000	11.802	1.80	18.0	.00552	.000	1
CalibStd=50	50.000	55.168	5.17	10.3	.03535	.000	1
CalibStd=100	100.00	110.35	10.3	10.3	.07330	.001	1
CalibStd=100	1000.0	1001.8	1.81	.181	.68648	.005	1
CalibStd=100	10000.	9980.2	-19.8	-.198	6.8622	.088	1



Ti 334.941 {101}

Date of Fit:	11/19/2010 09:55:50	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000016	Re-Slope:	1.000000
A1 (Gain):	0.000038	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999365	Status:	OK.
Std Error of Est:	0.000006		
Predicted MDL:	2.728691		
Predicted MQL:	9.095638		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00289	-.003	.000	.00002	.000	1
CalibStd=10	10.000	12.076	2.08	20.8	.00047	.000	1
CalibStd=100	100.00	109.22	9.22	9.22	.00416	.000	1
CalibStd=100	1000.0	988.70	-11.3	-1.13	.03751	.000	1

Sample Name: Blank Acquired: 11/19/2010 09:01:43 Type: Cal
Method: DOD Calibration 1(v1278) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	Al3092	Al3961	As1890	As1937	Ba4554	Ba4934	Be2348	Be3130	Ca3179	Ca3933
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.001**	**.000**	**.000**	**.000**	**.000**	**.016**	**.000**	**.000**	**.005**	**.008**
Stddev	.000	.000	.000	.000	.000	.00	.000	.000	.000	.000	.000	.000
%RSD	2.84	3.18	12.8	45.5	159.	53.4	32.5	2.06	22.1	53.3	.015	.791

Elem	Ca3968	Cd2265	Cd2288	Co2286	Co2388	Cr2677	Cr2835	Cu2247	Fe2343	Fe2395	Fe2599	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.004**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.001**	**.000**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	1.95	111.	47.7	106.	72.0	44.0	6.04	7.85	27.9	22.9	17.2	364.

Elem	Mg2795	Mg2802	Mn2576	Mn2593	Mo2020	Mo2045	Ni2216	Ni2316	Pb2169	Pb2203	Sb2068	Sb2175
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.001**	**.001**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**
Stddev	.000	.000	.000	.000	.000	.00	.000	.00	.000	.000	.000	.00
%RSD	.331	1.31	48.0	42.2	175.	327.	190.	197.	14.2	175.	2110.	17.5

Elem	Se1960	Se2062	Tl1908	Tl2767	V_2908	V_2924	Zn2062	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.000**	**.000**	**.001**	**.000**	**.000**	**.000**
Stddev	.000	.000	.00	.00	.000	.000	.000	.000
%RSD	82.5	125.	930.	506.	3.90	6.93	5.77	12.6

Sample Name: Blank Acquired: 11/19/2010 09:01:43 Type: Cal
Method: DOD Calibration 1(v1278) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Units	Cts/S
Avg	**102210.**
Stddev	1118.
%RSD	1.0938

Sample Name: CalibStd=0.25 Acquired: 11/19/2010 09:07:09 Type: Cal
Method: DOD Calibration 1(v1278) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Be3130	Cd2265
Units	Cts/S	Cts/S
Avg	**.000**	**.000**
Stddev	.000	.000
%RSD	23.7	13.0

Int. Std.	Y_3600
Units	Cts/S
Avg	**102210.**
Stddev	791.
%RSD	.77407

Sample Name: CalibStd=0.5 Acquired: 11/19/2010 09:12:38 Type: Cal
Method: DOD Calibration 1(v1278) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Be3130	Cd2265
Units	Cts/S	Cts/S
Avg	**.000**	**.000**
Stddev	.000	.000
%RSD	3.74	42.6

Int. Std.	Y_3600
Units	Cts/S
Avg	**102300.**
Stddev	659.
%RSD	.64440

Sample Name: CalibStd=1 Acquired: 11/19/2010 09:18:06 Type: Cal
Method: DOD Calibration 1(v1278) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Ba4554	Cd2265	Co2286	Cr2677	Mn2576	Mo2020	V_2924
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.001**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	16.8	11.3	.633	6.78	75.8	22.6	26.4	23.5

Int. Std.	Y_3600
Units	Cts/S
Avg	**101750.**
Stddev	498.
%RSD	.48976

Sample Name: CalibStd=5 Acquired: 11/19/2010 09:23:35 Type: Cal
Method: DOD Calibration 1(v1278) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	Ba4554	Be3130	Cd2265	Co2286	Cr2677	Cu2247	Mn2576	Mo2020	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.001**	**.000**	**.002**	**.002**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	4.60	11.3	3.56	1.69	3.35	5.37	9.99	1.93	3.87	5.41	6.86	20.7

Elem	Se1960	V_2924
Units	Cts/S	Cts/S
Avg	**.000**	**.000**
Stddev	.000	.000
%RSD	28.8	2.33

Int. Std.	Y_3600
Units	Cts/S
Avg	**101900.**
Stddev	687.
%RSD	.67449

Sample Name: CalibStd=10 Acquired: 11/19/2010 09:29:05 Type: Cal
Method: DOD Calibration 1(v1278) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Cd2265	Co2286	Cr2677	Cu2247	Mg2795	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.001**	**.000**	**.000**	**.003**	**.005**	**.000**	**.000**	**.000**	**.000**	**.003**	**.001**	**.000**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	5.80	9.47	30.1	2.84	.788	1.21	4.74	3.47	2.37	.081	1.93	2.12

Elem	Ni2316	Pb2203	Sb2068	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	5.72	3.50	21.4	38.6	55.0	66.2	7.66	1.40

Int. Std.	Y_3600
Units	Cts/S
Avg	**99575.**
Stddev	511.
%RSD	.51355

Sample Name: CalibStd=20 Acquired: 11/19/2010 09:34:34 Type: Cal
Method: DOD Calibration 1(v1278) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al1670	Ba4554	Cr2677	Fe2599	Mg2795	Mn2576	Mo2020	Ni2316	Sb2175	Tl1908	V_2924
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.006**	**.001**	**.000**	**.005**	**.002**	**.000**	**.000**	**.000**	**.000**	**.001**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	6.65	1.64	4.38	1.61	1.06	.204	2.53	3.34	31.2	53.3	2.31

Int. Std.	Y_3600
Units	Cts/S
Avg	**98452.**
Stddev	1254.
%RSD	1.2734

Sample Name: CalibStd=50 Acquired: 11/19/2010 09:40:03 Type: Cal
Method: DOD Calibration 1(v1278) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al1670	As1937	Ba4554	Ca3933	Cd2265	Co2286	Cr2677	Cr2835	Cu2247	Fe2599	Mg2795	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.014**	**.063**	**.002**	**.001**	**.002**	**.001**	**.000**	**.001**	**.011**	**.004**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	4.86	8.43	.459	.259	.929	.232	.750	2.38	1.41	4.02	.472	.758

Elem	Mo2020	Mo2045	Ni2316	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.002**	**.001**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	1.82	.927	1.22	3.96	17.4	4.87	2.01	.796

Int. Std.	Y_3600
Units	Cts/S
Avg	**98362.**
Stddev	792.
%RSD	.80563

Sample Name: CalibStd=100 Acquired: 11/19/2010 09:45:28 Type: Cal
Method: DOD Calibration 1(v1278) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	As1890	As1937	Ba4554	Be2348	Be3130	Ca3968	Cd2265	Cd2288	Co2286	Cr2677	Cr2835
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.009**	**.000**	**.000**	**.028**	**.004**	**.045**	**.049**	**.003**	**.003**	**.001**	**.005**	**.001**
Stddev	.000	.000	.000	.000	.000	.001	.000	.000	.000	.000	.000	.000
%RSD	1.72	3.23	7.30	1.32	1.81	1.39	.904	1.33	1.09	.839	.825	1.04

Elem	Cu2247	Fe2599	Mn2576	Mo2020	Mo2045	Ni2216	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.001**	**.001**	**.008**	**.000**	**.000**	**.002**	**.001**	**.000**	**.000**	**.000**	**.000**	**.005**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	1.25	3.51	1.49	1.74	1.99	1.39	.601	3.39	5.06	6.50	5.06	1.62

Elem	Zn2138
Units	Cts/S
Avg	**.002**
Stddev	.000
%RSD	1.30

Int. Std.	Y_3600
Units	Cts/S
Avg	**98955.**
Stddev	1111.
%RSD	1.1224

Sample Name: CalibStd=1000 Acquired: 11/19/2010 09:50:51 Type: Cal
Method: DOD Calibration 1(v1278) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al1670	Al3092	Al3961	As1890	As1937	Ba4934	Be2348	Be3130	Ca3179	Ca3933	Ca3968	Cd2265
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.001**	**.004**	**.006**	**.000**	**.000**	**.345**	**.041**	**.434**	**.014**	**.853**	**.406**	**.030**
Stddev	.000	.000	.000	.000	.000	.001	.000	.001	.000	.004	.002	.000
%RSD	.831	.941	1.32	.858	.363	.276	.392	.157	.634	.496	.457	.826

Elem	Cd2288	Co2286	Co2388	Cr2677	Cr2835	Cu2247	Fe2343	Fe2395	Fe2599	Mg2790	Mg2802	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.031**	**.013**	**.005**	**.044**	**.012**	**.007**	**.001**	**.004**	**.007**	**.001**	**.134**	**.077**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	.001
%RSD	1.04	.672	.973	.965	.067	.780	.246	.762	.374	.709	.675	.723

Elem	Mn2593	Mo2020	Mo2045	Ni2216	Ni2316	Pb2169	Pb2203	Sb2068	Sb2175	Se1960	Se2062	Tl1908
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.057**	**.005**	**.003**	**.015**	**.007**	**.001**	**.003**	**.001**	**.001**	**.000**	**.000**	**.001**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	.589	.985	.893	.924	.778	1.19	.975	.991	1.06	.700	1.90	.748

Elem	Tl2767	V_2908	V_2924	Zn2062	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.059**	**.043**	**.010**	**.020**
Stddev	.000	.001	.000	.000	.000
%RSD	6.94	1.01	.767	.661	.655

Sample Name: CalibStd=1000 Acquired: 11/19/2010 09:50:51 Type: Cal
Method: DOD Calibration 1(v1278) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Units	Cts/S
Avg	**100780.**
Stddev	827.
%RSD	.82074

Sample Name: CalibStd=10000 Acquired: 11/19/2010 09:55:54 Type: Cal
Method: DOD Calibration 1(v1278) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al3092	Al3961	As1890	Ba4934	Ca3179	Ca3968	Co2388	Cr2835	Cu2247	Fe2343	Fe2395	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.033**	**.062**	**.002**	**3.37**	**.098**	**4.06**	**.045**	**.115**	**.070**	**.010**	**.043**	**.012**
Stddev	.000	.000	.000	.01	.000	.02	.000	.000	.000	.000	.000	.000
%RSD	.373	.635	.513	.193	.273	.401	.301	.367	.321	1.32	.603	.974

Elem	Mg2802	Mn2576	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068	Sb2175	Se1960	Se2062	Tl1908	Tl2767
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.29**	**.755**	**.566**	**.033**	**.143**	**.007**	**.012**	**.014**	**.004**	**.001**	**.005**	**.003**
Stddev	.02	.003	.003	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	1.39	.345	.582	.364	.240	.576	.160	.205	.468	.621	.196	1.13

Elem	V_2908	Zn2062
Units	Cts/S	Cts/S
Avg	**.577**	**.099**
Stddev	.014	.000
%RSD	2.48	.302

Int. Std.	Y_3600
Units	Cts/S
Avg	**101410.**
Stddev	304.
%RSD	.29998

Sample Name: CalibStd-100k Acquired: 11/19/2010 10:01:42 Type: Cal
Method: DOD Calibration 1(v1278) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Cr2835	Mn2593	Pb2169	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.16**	**5.49**	**.074**	**.832**
Stddev	.01	.05	.001	.009
%RSD	1.26	.936	1.29	1.05

Int. Std.	Y_3600
Units	Cts/S
Avg	**102850.**
Stddev	1302.
%RSD	1.2660

Sample Name: CalibStd=100000 Acquired: 11/19/2010 10:07:33 Type: Cal
Method: DOD Calibration 1(v1278) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al3092	Al3961	Ca3179	Fe2343	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.313**	**.583**	**.922**	**.108**	**.124**
Stddev	.002	.002	.004	.001	.000
%RSD	.563	.390	.434	.723	.300

Int. Std.	Y_3600
Units	Cts/S
Avg	**100490.**
Stddev	122.
%RSD	.12111

Sample Name: CalibStd=500000 Acquired: 11/19/2010 10:13:20 Type: Cal
Method: DOD Calibration 1(v1278) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al3961	Ca3179	Fe2343	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3.01**	**4.36**	**.535**	**.636**
Stddev	.02	.01	.006	.005
%RSD	.812	.199	1.04	.752

Int. Std.	Y_3600
Units	Cts/S
Avg	**96299.**
Stddev	403.
%RSD	.41857

Sample Name: CalibStd-1000k Acquired: 11/19/2010 10:19:21 Type: Cal
Method: DOD Calibration 1(v1278) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al3961	Ca3179	Fe2343	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5.70**	**7.92**	**1.00**	**1.20**
Stddev	.04	.10	.01	.01
%RSD	.694	1.20	1.37	.479

Int. Std.	Y_3600
Units	Cts/S
Avg	**93658.**
Stddev	419.
%RSD	.44702

Sample Name: icv Acquired: 11/19/2010 10:31:00 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2388	Cr2677	Cu2247
Avg	**117.**	**11400.**	**11500.**	**1980.**	**2090.**	**52.6**	**9950.**	**50.0**	**462.**	**179.**	**251.**
Stddev	.	6.	48.	6.	5.	.8	10.	.1	1.	3.	1.
%RSD	.306	.051	.416	.285	.237	1.44	.099	.259	.276	1.53	.337
Check ?	None	None	None	None	None	None	None	None	None	None	None
Value											
Range											

Elem	Fe2395	Mg2790	Mg2802	Mn2576	Mo2020	Ni2216	Ni2316	Pb2169	Pb2203	Sb2068	Sb2175
Avg	**4780.**	**10800.**	**10300.**	**488.**	**478.**	**526.**	**473.**	**482.**	**512.**	**507.**	**501.**
Stddev	14.	171.	16.	.	1.	.	1.	5.	1.	1.	.
%RSD	.301	1.58	.159	.057	.134	.029	.137	.997	.185	.252	.015
Check ?	None	None	None	None	None	None	None	None	None	None	None
Value											
Range											

Elem	Se1960	Se2062	Tl1908	Tl2767	V_2908	Zn2138
Avg	**2010.**	**2020.**	**2100.**	**2170.**	**483.**	**473.**
Stddev	12.	7.	7.	47.	8.	2.
%RSD	.582	.323	.324	2.18	1.59	.461
Check ?	None	None	None	None	None	None
Value						
Range						

Sample Name: icv Acquired: 11/19/2010 10:31:00 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Avg	**101300.**
Stddev	103.
%RSD	.10167

Sample Name: icb Acquired: 11/19/2010 10:36:35 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3968	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**-.618**	**-.182**	**-3.24**	**.409**	**.020**	**2.25**	**-.032**	**-.072**	**-.355**	**.061**	**-16.1**	**5.61**
Stddev	.213	3.01	5.72	.165	.139	3.02	.062	.227	.534	.884	7.9	2.52
%RSD	34.5	1650.	177.	40.4	703.	134.	195.	316.	150.	1440.	48.9	44.9
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**.054**	**-.615**	**-1.86**	**-1.88**	**1.43**	**.002**	**-6.91**	**.205**	**-.743**
Stddev	.152	1.04	.38	1.96	1.54	5.10	3.39	.375	.186
%RSD	282.	170.	20.6	104.	108.	231000.	49.0	183.	25.0
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**100640.**
Stddev	453.
%RSD	.45046

Sample Name: MRL Acquired: 11/19/2010 10:47:33 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3968	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**19.8**	**399.**	**9.33**	**10.0**	**4.29**	**561.**	**5.32**	**11.3**	**9.03**	**10.8**	**318.**	**497.**
Stddev	.0	1.	2.10	.1	.11	1.	.15	.3	.16	.5	1.	.
%RSD	.116	.243	22.5	1.20	2.49	.182	2.87	3.09	1.72	4.72	.314	.011
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	**10.8**	**7.95**	**8.67**	**8.86**	**17.1**	**7.77**	**22.8**	**10.0**	**11.6**
Stddev	.5	.66	.72	1.58	7.6	9.26	5.8	.9	.0
%RSD	4.40	8.25	8.27	17.8	44.3	119.	25.6	9.26	.281
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**101500.**
Stddev	216.
%RSD	.21295

Sample Name: icsa Acquired: 11/19/2010 10:52:57 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3961	As1937	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Avg	**.000**	**447000.**	**-.303**	**-.049**	**.051**	**495000.**	**.036**	**.030**	**.000**	**-.073**
Stddev	.87	5240.	15.0	.185	.102	2910.	.493	.471	.74	1.55
%RSD	1563e15	1.17	4940.	377.	200.	.588	1370.	1560.	15e6	2130.
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2343	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Avg	**495000.**	**472000.**	**.025**	**.244**	**.001**	**-.027**	**-.100**	**.001**	**.000**	**.080**
Stddev	4460.	2360.	.343	.211	1.00	2.43	5.68	5.22	3.24	.653
%RSD	.901	.500	1380.	86.6	170000.	8960.	5650.	730000.	218e6	820.
Check ?	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Zn2138
Avg	**.062**
Stddev	.476
%RSD	769.
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: icsa Acquired: 11/19/2010 10:52:57 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Avg	**96381.**
Stddev	274.
%RSD	.28465

Sample Name: icsab Acquired: 11/19/2010 10:59:00 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be2348	Ca3179	Cd2288	Co2388	Cr2677	Cu2247
Avg	**474.**	**454000.**	**500.**	**586.**	**537.**	**507000.**	**429.**	**405.**	**419.**	**466.**
Stddev	1.	7030.	17.	3.	1.	2810.	1.	1.	3.	2.
%RSD	.219	1.55	3.37	.574	.265	.554	.158	.139	.662	.487
Check ?	None	None	None	None	None	None	None	None	None	None
Value										
Range										

Elem	Fe2343	Mg2790	Mn2576	Mo2020	Ni2216	Pb2169	Sb2175	Se1960	Tl1908	V_2908
Avg	**509000.**	**484000.**	**507.**	**459.**	**477.**	**445.**	**425.**	**461.**	**412.**	**468.**
Stddev	1510.	1630.	4.	1.	1.	2.	7.	1.	8.	1.
%RSD	.297	.337	.833	.114	.129	.361	1.76	.278	2.01	.115
Check ?	None	None	None	None	None	None	None	None	None	None
Value										
Range										

Elem	Zn2138
Avg	**453.**
Stddev	1.
%RSD	.294
Check ?	None
Value	
Range	

Sample Name: icsab Acquired: 11/19/2010 10:59:00 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Avg	**96623.**
Stddev	30.
%RSD	.03086

Sample Name: ccv1 Acquired: 11/19/2010 18:33:53 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	Al3961	As1890	Ba4554	Ba4934	Be2348	Ca3179	Ca3968	Cd2288	Co2388	Cr2835
Avg	**482.**	**4760.**	**5110.**	**4820.**	**4650.**	**5230.**	**479.**	**6450.**	**7100.**	**468.**	**4360.**	**4370.**
Stddev	9.	124.	121.	143.	129.	142.	12.	282.	567.	14.	121.	108.
%RSD	1.95	2.61	2.37	2.96	2.77	2.71	2.58	4.37	7.98	2.99	2.77	2.47
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Cu2247	Fe2395	Mg2790	Mg2802	Mn2593	Mo2045	Ni2216	Ni2316	Pb2169	Pb2203	Sb2068	Se1960
Avg	**5170.**	**4760.**	**5880.**	**5810.**	**4590.**	**4690.**	**5420.**	**4870.**	**5280.**	**4990.**	**5140.**	**4800.**
Stddev	135.	93.	130.	84.	118.	131.	142.	129.	157.	138.	137.	133.
%RSD	2.62	1.95	2.20	1.44	2.58	2.80	2.63	2.65	2.98	2.76	2.66	2.77
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Se2062	Tl1908	Tl2767	V_2908	Zn2062
Avg	**4900.**	**4980.**	**5080.**	**4930.**	**4900.**
Stddev	145.	129.	142.	108.	123.
%RSD	2.96	2.59	2.79	2.20	2.51
Check ?	None	None	None	None	None
Value					
Range					

Sample Name: ccv1 Acquired: 11/19/2010 18:33:53 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Avg	**101820.**
Stddev	2700.
%RSD	2.6516

Sample Name: ccv2 Acquired: 11/19/2010 18:39:10 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1890	As1937	Ba4554	Ba4934	Be3130	Ca3179	Ca3968	Cd2265	Co2286	Co2388
Avg	**52.4**	**516.**	**495.**	**475.**	**460.**	**525.**	**53.0**	**557.**	**620.**	**52.7**	**558.**	**435.**
Stddev	2.7	21.	23.	25.	23.	30.	2.7	34.	35.	2.2	23.	21.
%RSD	5.10	4.07	4.67	5.24	5.06	5.69	5.17	6.14	5.67	4.09	4.10	4.75
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Cr2677	Cu2247	Fe2599	Mg2795	Mg2802	Mn2576	Mn2593	Mo2020	Ni2216	Ni2316	Pb2169	Pb2203
Avg	**463.**	**532.**	**499.**	**492.**	**544.**	**469.**	**469.**	**466.**	**559.**	**499.**	**517.**	**480.**
Stddev	24.	22.	31.	26.	28.	23.	23.	20.	24.	22.	25.	18.
%RSD	5.27	4.18	6.17	5.20	5.07	4.85	4.89	4.33	4.30	4.49	4.90	3.79
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Sb2068	Sb2175	Se1960	Tl1908	V_2908	Zn2138
Avg	**534.**	**534.**	**500.**	**533.**	**505.**	**474.**
Stddev	20.	22.	19.	16.	27.	20.
%RSD	3.70	4.09	3.84	3.04	5.37	4.26
Check ?	None	None	None	None	None	None
Value						
Range						

Sample Name: ccv2 Acquired: 11/19/2010 18:39:10 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Avg	**102370.**
Stddev	3829.
%RSD	3.7407

Sample Name: ccb Acquired: 11/19/2010 18:49:51 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3179	Ca3968	Cd2265	Co2286	Cr2677	Cu2247	Fe2599
Avg	**-.175**	**-9.51**	**-1.98**	**.191**	**-.013**	**211.**	**243.**	**-.126**	**-.340**	**-.550**	**5.45**	**-31.5**
Stddev	.688	1.22	11.2	.202	.028	8.	12.	.080	.115	.350	.93	3.4
%RSD	393.	12.9	563.	106.	221.	3.92	4.83	63.9	34.0	63.6	17.0	10.9
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mg2795	Mg2802	Mn2576	Mo2020	Ni2216	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**99.4**	**109.**	**.192**	**-1.41**	**.033**	**-1.71**	**-4.68**	**-.671**	**-5.80**	**-.105**	**.425**	**-.529**
Stddev	4.8	5.	.207	.50	.681	.30	.82	1.45	6.17	8.39	.280	.181
%RSD	4.85	4.86	108.	35.2	2060.	17.6	17.6	215.	106.	8010.	65.8	34.3
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Int. Std.	Y_3600
Avg	**97939.**
Stddev	4427.
%RSD	4.5205

Sample Name: lcss35475 Acquired: 11/19/2010 19:46:20 Type: Unk
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2388	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**92.8**	**3730.**	**3650.**	**4150.**	**103.**	**178000.**	**93.6**	**817.**	**333.**	**460.**
Stddev	.7	23.	6.	5.	.	2440.	.5	3.	2.	3.
%RSD	.753	.618	.166	.118	.408	1.37	.515	.407	.706	.621

Elem	Fe2599	Mg2790	Mn2576	Mo2020	Ni2216	Pb2169	Sb2068	Se2062	Tl1908	V_2908
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**2020.**	**90500.**	**881.**	**-1.53**	**985.**	**838.**	**1000.**	**3600.**	**3300.**	**962.**
Stddev	38.	348.	1.	.15	2.	12.	1.	64.	15.	5.
%RSD	1.89	.384	.097	9.79	.224	1.47	.141	1.77	.444	.537

Elem	Zn2062
Units	ug/L
Avg	**889.**
Stddev	4.
%RSD	.452

Int. Std.	Y_3600
Units	Cts/S
Avg	94643.
Stddev	349.
%RSD	.36849

Sample Name: ccv1 Acquired: 11/19/2010 19:52:03 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	Al3961	As1890	Ba4554	Ba4934	Be2348	Ca3179	Ca3968	Cd2288	Co2388	Cr2835
Avg	**487.**	**4630.**	**4970.**	**4860.**	**4630.**	**5290.**	**471.**	**5940.**	**6620.**	**473.**	**4270.**	**4310.**
Stddev	4.	29.	11.	44.	1.	3.	4.	182.	272.	5.	6.	16.
%RSD	.881	.635	.226	.899	.024	.050	.851	3.07	4.11	1.06	.138	.366
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Cu2247	Fe2395	Mg2790	Mg2802	Mn2593	Mo2045	Ni2216	Ni2316	Pb2169	Pb2203	Sb2068	Se1960
Avg	**5280.**	**4480.**	**5700.**	**5600.**	**4520.**	**4720.**	**5570.**	**4970.**	**5390.**	**5060.**	**5300.**	**4860.**
Stddev	58.	27.	116.	100.	14.	60.	60.	57.	64.	55.	54.	67.
%RSD	1.10	.590	2.03	1.79	.308	1.28	1.07	1.15	1.18	1.09	1.02	1.37
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Se2062	Tl1908	Tl2767	V_2908	Zn2062
Avg	**4950.**	**5090.**	**4860.**	**5000.**	**5020.**
Stddev	30.	59.	170.	39.	54.
%RSD	.607	1.17	3.49	.771	1.08
Check ?	None	None	None	None	None
Value					
Range					

Sample Name: ccv1 Acquired: 11/19/2010 19:52:03 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Avg	**99105.**
Stddev	995.
%RSD	1.0043

Sample Name: ccv2 Acquired: 11/19/2010 19:57:18 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1890	As1937	Ba4554	Ba4934	Be3130	Ca3179	Ca3968	Cd2265	Co2286	Co2388
Avg	**52.6**	**525.**	**494.**	**481.**	**454.**	**520.**	**52.7**	**586.**	**663.**	**53.9**	**572.**	**423.**
Stddev	1.7	19.	31.	10.	24.	31.	2.9	38.	44.	1.8	20.	22.
%RSD	3.31	3.61	6.28	2.00	5.31	5.92	5.45	6.42	6.58	3.31	3.55	5.23
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Cr2677	Cu2247	Fe2599	Mg2795	Mg2802	Mn2576	Mn2593	Mo2020	Ni2216	Ni2316	Pb2169	Pb2203
Avg	**460.**	**541.**	**495.**	**504.**	**560.**	**456.**	**454.**	**471.**	**571.**	**508.**	**526.**	**480.**
Stddev	17.	20.	34.	31.	34.	27.	24.	15.	21.	18.	17.	22.
%RSD	3.76	3.71	6.79	6.14	5.99	5.82	5.25	3.24	3.68	3.48	3.28	4.51
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Sb2068	Sb2175	Se1960	Tl1908	V_2908	Zn2138
Avg	**543.**	**547.**	**498.**	**543.**	**506.**	**478.**
Stddev	15.	17.	16.	22.	18.	16.
%RSD	2.68	3.16	3.18	4.09	3.48	3.35
Check ?	None	None	None	None	None	None
Value						
Range						

Sample Name: ccv2 Acquired: 11/19/2010 19:57:18 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Avg	**100940.**
Stddev	3787.
%RSD	3.7519

Sample Name: ccb Acquired: 11/19/2010 20:07:58 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3179	Ca3968	Cd2265	Co2286	Cr2677	Cu2247	Fe2599
Avg	**-.009**	**-8.29**	**-10.6**	**.778**	**-.088**	**198.**	**242.**	**-.140**	**.105**	**-.216**	**5.61**	**-30.3**
Stddev	.458	.64	5.1	.193	.017	2.	1.	.131	.242	.411	1.18	1.0
%RSD	5030.	7.72	48.3	24.8	18.9	1.18	.450	93.5	231.	191.	21.0	3.45
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mg2795	Mg2802	Mn2576	Mo2020	Ni2216	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**97.3**	**108.**	**-.099**	**-1.35**	**-.171**	**-1.78**	**-2.91**	**.197**	**.204**	**2.94**	**-.146**	**-.459**
Stddev	.3	1.	.152	.35	.328	.09	1.20	3.28	8.12	2.26	.422	.114
%RSD	.323	.523	153.	26.2	192.	4.97	41.1	1670.	3980.	76.6	288.	24.9
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Int. Std.	Y_3600
Avg	**98776.**
Stddev	430.
%RSD	.43519

Sample Name: mbs35475 Acquired: 11/19/2010 20:13:25 Type: Unk
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.582**	**46.6**	**-6.13**	**.203**	**-.052**	**33.2**	**.037**	**-.198**	**.018**	**.075**	**74.4**	**9.45**
Stddev	.329	1.5	1.64	.278	.016	.2	.095	.142	.998	.571	2.2	.26
%RSD	56.5	3.15	26.8	137.	31.5	.517	256.	71.6	5460.	761.	2.93	2.79

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**4.47**	**-1.37**	**-1.73**	**-.376**	**-1.00**	**-.485**	**6.27**	**1.31**	**-.052**
Stddev	.32	.74	.68	1.28	5.91	7.36	1.89	.55	.318
%RSD	7.11	53.8	39.3	342.	591.	1520.	30.2	41.8	616.

Int. Std.	Y_3600
Units	Cts/S
Avg	**99610.**
Stddev	1566.
%RSD	1.5717

Sample Name: 870200 Acquired: 11/19/2010 20:18:54 Type: Unk
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: 2 Post Digestion:
Comment:

Elem	Ag3280	Al3961	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**3.97**	**188000.**	**231.**	**2550.**	**19.2**	**309000.**	**21.5**	**212.**	**565.**	**345.**
Stddev	.44	855.	6.	4.	.1	1410.	.0	1.	4.	3.
%RSD	11.1	.455	2.57	.172	.438	.456	.094	.680	.648	.908

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2216	Pb2169	Sb2175	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**466000.**	**66800.**	**25100.**	**28.2**	**679.**	**2560.**	**10700.**	**12.6**	**28.0**	**339.**
Stddev	1830.	266.	80.	1.5	3.	9.	46.	6.3	1.3	3.
%RSD	.393	.398	.320	5.27	.398	.365	.429	50.3	4.53	.762

Elem	Zn2062
Units	ug/L
Avg	**1470.**
Stddev	2.
%RSD	.152

Int. Std.	Y_3600
Units	Cts/S
Avg	**98584.**
Stddev	218.
%RSD	.22133

Sample Name: 870201 Acquired: 11/19/2010 20:24:38 Type: Unk
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: 2 Post Digestion:
Comment:

Elem	Ag3280	Al3961	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**2.84**	**197000.**	**209.**	**1830.**	**12.2**	**48700.**	**20.4**	**206.**	**2170.**	**282.**
Stddev	.17	858.	11.	7.	.1	232.	.2	1.	8.	2.
%RSD	6.16	.436	5.09	.389	.810	.477	.759	.520	.367	.666

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2216	Pb2169	Sb2068	Se1960	Tl1908	V_2908
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**437000.**	**37800.**	**14300.**	**27.7**	**435.**	**590.**	**47.4**	**16.9**	**13.4**	**441.**
Stddev	5680.	296.	78.	.7	3.	5.	2.5	.6	16.4	3.
%RSD	1.30	.784	.547	2.35	.636	.784	5.31	3.29	123.	.668

Elem	Zn2062
Units	ug/L
Avg	**923.**
Stddev	8.
%RSD	.865

Int. Std.	Y_3600
Units	Cts/S
Avg	**99592.**
Stddev	818.
%RSD	.82098

Sample Name: I870201 Acquired: 11/19/2010 20:30:25 Type: Unk
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: 2 Post Digestion:
Comment:

Elem	Ag3280	Al3092	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247	Fe2343
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.589**	**43400.**	**38.6**	**381.**	**2.56**	**10500.**	**4.77**	**46.9**	**508.**	**65.1**	**98700.**
Stddev	.134	118.	10.7	1.	.21	12.	.11	.1	21.	.2	266.
%RSD	22.8	.272	27.7	.145	8.13	.117	2.35	.220	4.15	.374	.270

Elem	Mg2802	Mn2576	Mo2020	Ni2216	Pb2169	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**8170.**	**2990.**	**4.89**	**100.**	**124.**	**8.69**	**7.92**	**5.26**	**93.0**	**212.**
Stddev	8.	6.	.94	.	5.	1.38	2.15	5.02	2.9	1.
%RSD	.099	.202	19.2	.089	3.84	15.9	27.1	95.5	3.08	.649

Int. Std.	Y_3600
Units	Cts/S
Avg	**100150.**
Stddev	576.
%RSD	.57474

Sample Name: dup870201 Acquired: 11/19/2010 20:36:07 Type: Unk
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: 2 Post Digestion:
Comment:

Elem	Ag3280	Al3961	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**2.20**	**186000.**	**190.**	**1730.**	**11.6**	**46100.**	**18.7**	**194.**	**1940.**	**266.**
Stddev	.12	102.	10.	1.	.1	44.	.6	3.	9.	4.
%RSD	5.62	.055	5.42	.081	.797	.094	2.95	1.35	.467	1.59

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2216	Pb2169	Sb2068	Se1960	Tl1908	V_2908
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**419000.**	**36100.**	**13500.**	**26.0**	**420.**	**590.**	**31.7**	**20.5**	**16.3**	**415.**
Stddev	1440.	164.	26.	.8	3.	8.	3.8	9.4	10.0	5.
%RSD	.343	.453	.191	3.15	.705	1.32	11.8	46.1	61.6	1.32

Elem	Zn2062
Units	ug/L
Avg	**882.**
Stddev	11.
%RSD	1.25

Int. Std.	Y_3600
Units	Cts/S
Avg	**101070.**
Stddev	265.
%RSD	.26213

Sample Name: mss870201 Acquired: 11/19/2010 20:41:54 Type: Unk
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: 2 Post Digestion:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**37.6**	**279000.**	**1900.**	**3790.**	**61.8**	**133000.**	**63.0**	**620.**	**1790.**	**479.**
Stddev	.6	482.	18.	8.	.1	410.	.8	6.	13.	8.
%RSD	1.68	.173	.921	.220	.092	.309	1.21	.959	.697	1.64

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2216	Pb2169	Sb2175	Se1960	Tl1908	V_2908
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**495000.**	**79300.**	**13600.**	**24.6**	**870.**	**985.**	**35.4**	**1570.**	**1460.**	**872.**
Stddev	1370.	297.	15.	.4	9.	9.	2.5	11.	7.	5.
%RSD	.276	.375	.107	1.64	1.04	.914	6.98	.687	.493	.626

Elem	Zn2062
Units	ug/L
Avg	**1300.**
Stddev	12.
%RSD	.948

Int. Std.	Y_3600
Units	Cts/S
Avg	**98228.**
Stddev	752.
%RSD	.76523

Sample Name: msds870201 Acquired: 11/19/2010 20:47:31 Type: Unk
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: 2 Post Digestion:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**39.5**	**296000.**	**1950.**	**3980.**	**64.8**	**139000.**	**65.2**	**645.**	**2150.**	**500.**
Stddev	.3	513.	9.	10.	.3	477.	.4	5.	6.	4.
%RSD	.874	.173	.464	.248	.453	.344	.587	.757	.297	.865

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2216	Pb2169	Sb2068	Se1960	Tl1908	V_2908
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**528000.**	**83500.**	**14300.**	**28.7**	**948.**	**1020.**	**146.**	**1650.**	**1510.**	**914.**
Stddev	5750.	447.	15.	.5	7.	35.	6.	21.	8.	8.
%RSD	1.09	.535	.102	1.78	.755	3.47	4.44	1.30	.542	.857

Elem	Zn2062
Units	ug/L
Avg	**1360.**
Stddev	9.
%RSD	.627

Int. Std.	Y_3600
Units	Cts/S
Avg	**98975.**
Stddev	523.
%RSD	.52823

Sample Name: pdss870201 Acquired: 11/19/2010 20:53:18 Type: Unk
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: 2 Post Digestion:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2388	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**74.7**	**349000.**	**3820.**	**6040.**	**118.**	**221000.**	**109.**	**819.**	**2120.**	**702.**
Stddev	8.7	38700.	386.	703.	14.	22600.	11.	98.	244.	72.
%RSD	11.6	11.1	10.1	11.6	11.7	10.2	9.89	12.0	11.5	10.3

Elem	Fe2343	Mg2790	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068	Se1960	Tl1908	V_2908
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**580000.**	**121000.**	**30700.**	**1730.**	**1340.**	**1470.**	**919.**	**3450.**	**3160.**	**1310.**
Stddev	64500.	13300.	3530.	181.	141.	141.	102.	367.	327.	139.
%RSD	11.1	11.0	11.5	10.5	10.5	9.62	11.1	10.6	10.3	10.6

Elem	Zn2062
Units	ug/L
Avg	**1670.**
Stddev	175.
%RSD	10.5

Int. Std.	Y_3600
Units	Cts/S
Avg	**92629.**
Stddev	8999.
%RSD	9.7155

Sample Name: 870202 Acquired: 11/19/2010 20:59:06 Type: Unk
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: 2 Post Digestion:
Comment:

Elem	Ag3280	Al3961	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**2.72**	**181000.**	**213.**	**1650.**	**13.1**	**69100.**	**19.8**	**218.**	**397.**	**290.**
Stddev	.57	534.	6.	1.	.0	49.	.2	1.	7.	3.
%RSD	21.1	.296	2.85	.032	.270	.070	.981	.372	1.84	1.03

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2216	Pb2169	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**433000.**	**45300.**	**12300.**	**22.9**	**457.**	**700.**	**5.98**	**11.9**	**15.6**	**371.**
Stddev	3270.	161.	31.	.4	2.	6.	1.65	9.8	5.5	8.
%RSD	.754	.355	.249	1.64	.427	.893	27.6	82.0	35.0	2.27

Elem	Zn2062
Units	ug/L
Avg	**1010.**
Stddev	2.
%RSD	.184

Int. Std.	Y_3600
Units	Cts/S
Avg	**100740.**
Stddev	357.
%RSD	.35466

Sample Name: 870203 Acquired: 11/19/2010 21:04:44 Type: Unk
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: 2 Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**3.27**	**187000.**	**203.**	**1720.**	**11.8**	**46200.**	**20.1**	**191.**	**515.**	**269.**
Stddev	1.27	4910.	5.	44.	.2	1160.	.3	4.	14.	6.
%RSD	38.7	2.63	2.56	2.54	1.59	2.52	1.54	1.97	2.63	2.14

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2216	Pb2169	Sb2068	Se1960	Tl1908	V_2908
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**434000.**	**37100.**	**14700.**	**24.3**	**437.**	**597.**	**9.03**	**16.8**	**22.6**	**426.**
Stddev	6260.	806.	379.	.9	7.	10.	1.46	6.0	3.6	9.
%RSD	1.44	2.18	2.57	3.89	1.54	1.70	16.1	35.6	15.9	2.16

Elem	Zn2062
Units	ug/L
Avg	**920.**
Stddev	16.
%RSD	1.68

Int. Std.	Y_3600
Units	Cts/S
Avg	**100140.**
Stddev	1759.
%RSD	1.7570

Sample Name: ccv1 Acquired: 11/19/2010 21:10:33 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be2348	Ca3179	Cd2288	Co2388	Cr2835	Cu2247	Fe2343	Mg2790
Avg	**493.**	**4530.**	**4870.**	**5220.**	**463.**	**5140.**	**478.**	**4190.**	**4250.**	**5340.**	**5350.**	**5250.**
Stddev	.	14.	62.	16.	1.	23.	5.	11.	12.	70.	166.	53.
%RSD	.082	.318	1.28	.312	.167	.456	1.01	.253	.276	1.32	3.11	1.01
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2045	Ni2216	Pb2169	Sb2068	Se1960	Tl1908	V_2908	Zn2062
Avg	**4480.**	**4770.**	**5650.**	**5410.**	**5310.**	**4870.**	**5120.**	**5040.**	**5080.**
Stddev	13.	53.	79.	62.	59.	51.	34.	18.	63.
%RSD	.291	1.11	1.40	1.15	1.10	1.04	.657	.348	1.25
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**97380.**
Stddev	202.
%RSD	.20698

Sample Name: ccv2 Acquired: 11/19/2010 21:15:50 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1890	As1937	Ba4554	Ba4934	Be3130	Cd2265	Co2286	Co2388	Cr2677	Cu2247
Avg	**52.3**	**540.**	**491.**	**487.**	**456.**	**524.**	**52.5**	**54.8**	**580.**	**419.**	**462.**	**548.**
Stddev	.9	6.	21.	5.	2.	3.	.3	.3	5.	3.	.	4.
%RSD	1.73	1.02	4.26	1.00	.430	.486	.584	.614	.780	.835	.108	.671
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Fe2599	Mg2795	Mg2802	Mn2576	Mn2593	Mo2020	Ni2216	Ni2316	Pb2169	Pb2203	Sb2068	Sb2175
Avg	**509.**	**526.**	**584.**	**457.**	**454.**	**479.**	**579.**	**514.**	**544.**	**492.**	**548.**	**552.**
Stddev	15.	2.	1.	2.	3.	3.	4.	4.	4.	2.	1.	2.
%RSD	2.98	.415	.245	.383	.623	.689	.749	.722	.805	.433	.272	.425
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Se1960	Tl1908	V_2908	Zn2138
Avg	**507.**	**552.**	**509.**	**485.**
Stddev	13.	3.	3.	3.
%RSD	2.61	.510	.604	.647
Check ?	None	None	None	None
Value				
Range				

Sample Name: ccv2 Acquired: 11/19/2010 21:15:50 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Avg	**98214.**
Stddev	734.
%RSD	.74741

Sample Name: ccb Acquired: 11/19/2010 21:26:30 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3179	Ca3968	Cd2265	Co2286	Cr2677	Cu2247	Fe2599
Avg	**.372**	**-7.52**	**-4.14**	**.666**	**-.026**	**207.**	**249.**	**-.056**	**.131**	**-.487**	**5.27**	**-30.0**
Stddev	.456	.68	2.65	.511	.042	1.	1.	.089	.104	.133	.11	2.1
%RSD	123.	9.02	64.0	76.7	161.	.416	.229	159.	79.3	27.4	2.05	6.92
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mg2795	Mg2802	Mn2576	Mo2020	Ni2216	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	**101.**	**111.**	**.186**	**-.892**	**.258**	**-2.23**	**-1.83**	**-1.19**	**.215**	**-.586**	**-1.20**	**-.581**
Stddev	.	1.	.504	.600	.707	1.22	.44	3.08	2.83	6.90	.80	.182
%RSD	.295	.642	271.	67.3	275.	54.8	24.3	258.	1320.	1180.	66.9	31.4
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Int. Std.	Y_3600
Avg	**96689.**
Stddev	750.
%RSD	.77561

Sample Name: 870204 Acquired: 11/19/2010 21:31:58 Type: Unk
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: 2 Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**3.93**	**178000.**	**198.**	**2180.**	**13.3**	**70200.**	**19.2**	**189.**	**1150.**	**221.**
Stddev	.29	836.	12.	6.	.1	218.	.4	1.	13.	1.
%RSD	7.48	.470	6.17	.274	.407	.310	2.21	.339	1.13	.377

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2216	Pb2169	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**388000.**	**37300.**	**25000.**	**26.2**	**348.**	**608.**	**18.9**	**16.8**	**21.3**	**390.**
Stddev	3580.	214.	82.	.2	2.	25.	7.9	12.0	4.5	3.
%RSD	.921	.573	.329	.901	.441	4.10	41.7	71.5	21.2	.857

Elem	Zn2062
Units	ug/L
Avg	**1000.**
Stddev	2.
%RSD	.157

Int. Std.	Y_3600
Units	Cts/S
Avg	**98360.**
Stddev	159.
%RSD	.16131

Sample Name: 870207 Acquired: 11/19/2010 21:37:39 Type: Unk
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: 2 Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**2.58**	**186000.**	**185.**	**2030.**	**13.1**	**77700.**	**20.5**	**201.**	**2240.**	**275.**
Stddev	.61	415.	18.	1.	.1	74.	.3	1.	4.	2.
%RSD	23.7	.223	9.80	.072	.740	.096	1.40	.513	.198	.564

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2216	Pb2169	Sb2068	Se1960	Tl1908	V_2908
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**425000.**	**42200.**	**16500.**	**27.9**	**446.**	**596.**	**42.9**	**19.7**	**19.2**	**415.**
Stddev	4350.	272.	42.	1.8	2.	3.	2.5	16.4	1.4	5.
%RSD	1.02	.644	.252	6.54	.470	.503	5.89	83.5	7.17	1.11

Elem	Zn2062
Units	ug/L
Avg	**1010.**
Stddev	6.
%RSD	.605

Int. Std.	Y_3600
Units	Cts/S
Avg	**98533.**
Stddev	358.
%RSD	.36378

Sample Name: 871184 Acquired: 11/19/2010 21:43:19 Type: Unk
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: 2 Post Digestion: Y
Comment:

Elem	Ag3280	Al3961	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**3.95**	**144000.**	**246.**	**3830.**	**14.6**	**1060000.**	**26.9**	**195.**	**273.**
Stddev	.37	267.	7.	18.	.2	21900.	.2	1.	2.
%RSD	9.33	.185	2.76	.478	1.37	2.07	.885	.594	.755

Elem	Cu2247	Fe2343	Mg2790	Mn2593	Mo2020	Ni2216	Pb2169	Sb2068	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**263.**	**495000.**	**45300.**	**20900.**	**31.2**	**437.**	**595.**	**4.26**	**24.2**
Stddev	3.	3500.	169.	14.	1.2	2.	13.	1.75	5.2
%RSD	1.02	.706	.374	.066	3.92	.475	2.18	41.2	21.4

Elem	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L
Avg	**21.3**	**323.**	**1050.**
Stddev	8.0	1.	7.
%RSD	37.7	.351	.623

Int. Std.	Y_3600
Units	Cts/S
Avg	**95363.**
Stddev	496.
%RSD	.52057

Sample Name: 871186 Acquired: 11/19/2010 21:49:09 Type: Unk
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: 2 Post Digestion: J
Comment:

Elem	Ag3280	Al3092	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1.58**	**69200.**	**134.**	**1230.**	**9.80**	**833000.**	**14.1**	**431.**	**161.**	**1980.**
Stddev	.61	64.	11.	4.	.03	9050.	.2	3.	1.	15.
%RSD	38.7	.093	7.92	.326	.269	1.09	1.42	.731	.874	.750

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2216	Pb2169	Sb2175	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**230000.**	**42100.**	**9280.**	**7.20**	**373.**	**594.**	**731.**	**-12.6**	**13.8**	**91.6**
Stddev	1960.	147.	7.	1.43	3.	10.	5.	6.5	11.3	1.2
%RSD	.851	.349	.072	19.8	.770	1.62	.686	51.4	81.3	1.33

Elem	Zn2062
Units	ug/L
Avg	**12600.**
Stddev	78.
%RSD	.617

Int. Std.	Y_3600
Units	Cts/S
Avg	**94099.**
Stddev	441.
%RSD	.46862

Sample Name: 871187 Acquired: 11/19/2010 21:54:54 Type: Unk
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: 2 Post Digestion: J
Comment:

Elem	Ag3280	Al3961	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**3.17**	**169000.**	**187.**	**1770.**	**9.59**	**482000.**	**18.0**	**177.**	**860.**	**236.**
Stddev	.34	251.	10.	7.	.01	11900.	.7	2.	1.	3.
%RSD	10.7	.149	5.52	.412	.137	2.47	4.04	1.15	.130	1.16

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2216	Pb2169	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**396000.**	**36100.**	**17500.**	**18.9**	**333.**	**440.**	**24.4**	**3.69**	**20.9**	**377.**
Stddev	1530.	137.	54.	.7	2.	12.	2.5	5.05	3.1	3.
%RSD	.386	.379	.305	3.85	.729	2.74	10.2	137.	14.8	.776

Elem	Zn2062
Units	ug/L
Avg	**961.**
Stddev	8.
%RSD	.855

Int. Std.	Y_3600
Units	Cts/S
Avg	**95252.**
Stddev	501.
%RSD	.52552

Sample Name: 871188 Acquired: 11/19/2010 22:00:45 Type: Unk
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: 2 Post Digestion: J
Comment:

Elem	Ag3280	Al3961	As1937	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**5.62**	**157000.**	**278.**	**10300.**	**24.3**	**.000**	**32.8**	**140.**	**527.**	**274.**
Stddev	.46	638.	10.	169.	.1	.000	.6	.	1.	2.
%RSD	8.13	.407	3.45	1.64	.469	.000	1.81	.319	.231	.638

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2216	Pb2169	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**557000.**	**105000.**	**25500.**	**35.4**	**624.**	**916.**	**17.3**	**15.5**	**25.0**	**210.**
Stddev	2650.	297.	112.	1.4	2.	12.	2.8	5.6	9.5	1.
%RSD	.476	.283	.440	3.96	.383	1.35	16.5	36.3	38.0	.378

Elem	Zn2062
Units	ug/L
Avg	**1230.**
Stddev	7.
%RSD	.574

Int. Std.	Y_3600
Units	Cts/S
Avg	**94445.**
Stddev	470.
%RSD	.49733

Sample Name: 871189 Acquired: 11/19/2010 22:07:09 Type: Unk
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: 2 Post Digestion: J
Comment:

Elem	Ag3280	Al3961	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**3.39**	**142000.**	**229.**	**3530.**	**11.8**	**952000.**	**50.9**	**186.**	**260.**	**253.**
Stddev	.59	418.	10.	9.	.1	19800.	1.4	4.	5.	8.
%RSD	17.5	.294	4.30	.257	1.16	2.08	2.70	2.40	1.79	3.16

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2216	Pb2169	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**504000.**	**42600.**	**17000.**	**27.5**	**462.**	**633.**	**-6.40**	**-1.74**	**21.4**	**311.**
Stddev	2750.	102.	86.	.7	8.	10.	5.60	7.84	5.4	7.
%RSD	.546	.239	.507	2.47	1.68	1.57	87.4	450.	25.2	2.27

Elem	Zn2062
Units	ug/L
Avg	**3400.**
Stddev	49.
%RSD	1.45

Int. Std.	Y_3600
Units	Cts/S
Avg	**96487.**
Stddev	1493.
%RSD	1.5473

Sample Name: 871190 Acquired: 11/19/2010 22:13:02 Type: Unk
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: 2 Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**3.62**	**185000.**	**229.**	**2130.**	**12.8**	**399000.**	**21.9**	**250.**	**1800.**	**347.**
Stddev	.67	860.	2.	10.	.2	2580.	.2	2.	15.	3.
%RSD	18.5	.464	.738	.462	1.49	.646	.822	.662	.849	.786

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2216	Pb2169	Sb2068	Se1960	Tl1908	V_2908
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**452000.**	**39400.**	**23900.**	**27.3**	**486.**	**529.**	**27.1**	**10.3**	**27.8**	**403.**
Stddev	2920.	88.	99.	1.0	2.	6.	3.6	10.9	11.3	1.
%RSD	.645	.224	.416	3.77	.370	1.20	13.5	106.	40.7	.340

Elem	Zn2062
Units	ug/L
Avg	**986.**
Stddev	4.
%RSD	.452

Int. Std.	Y_3600
Units	Cts/S
Avg	**98876.**
Stddev	294.
%RSD	.29737

Sample Name: 871191 Acquired: 11/19/2010 22:18:51 Type: Unk
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: 2 Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**3.89**	**110000.**	**209.**	**8450.**	**12.6**	**.000**	**35.2**	**149.**	**568.**	**247.**
Stddev	1.16	761.	18.	45.	.0	.000	.3	1.	3.	1.
%RSD	30.0	.690	8.50	.535	.369	.000	.792	.627	.471	.316

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2216	Pb2169	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**539000.**	**52200.**	**16400.**	**34.0**	**526.**	**658.**	**11.3**	**-.377**	**18.5**	**241.**
Stddev	1640.	260.	127.	.4	4.	2.	3.6	7.72	17.5	1.
%RSD	.304	.497	.774	1.13	.719	.286	32.1	2050.	94.5	.464

Elem	Zn2062
Units	ug/L
Avg	**1210.**
Stddev	10.
%RSD	.857

Int. Std.	Y_3600
Units	Cts/S
Avg	**96057.**
Stddev	564.
%RSD	.58745

Sample Name: 871192 Acquired: 11/19/2010 22:25:01 Type: Unk
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: 2 Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**2.39**	**154000.**	**168.**	**1900.**	**9.68**	**747000.**	**15.5**	**159.**	**891.**	**211.**
Stddev	.77	1720.	9.	33.	.18	9000.	.3	1.	9.	2.
%RSD	32.1	1.12	5.28	1.72	1.90	1.20	2.07	.597	.982	.953

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2216	Pb2169	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**354000.**	**36400.**	**13500.**	**17.4**	**368.**	**424.**	**13.6**	**2.96**	**11.0**	**332.**
Stddev	6790.	508.	166.	.6	2.	8.	3.7	13.3	4.1	2.
%RSD	1.92	1.39	1.23	3.62	.636	1.93	27.1	449.	37.0	.519

Elem	Zn2062
Units	ug/L
Avg	**805.**
Stddev	7.
%RSD	.845

Int. Std.	Y_3600
Units	Cts/S
Avg	**97250.**
Stddev	894.
%RSD	.91925

Sample Name: ccv1 Acquired: 11/19/2010 22:30:52 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	Al3961	As1890	Ba4554	Ba4934	Be2348	Ca3179	Ca3968	Cd2288	Co2388	Cr2835
Avg	**491.**	**4570.**	**4950.**	**4850.**	**4590.**	**5230.**	**459.**	**5140.**	**5760.**	**476.**	**4160.**	**4220.**
Stddev	3.	17.	27.	19.	4.	14.	2.	23.	106.	2.	3.	4.
%RSD	.540	.373	.554	.385	.076	.264	.334	.446	1.85	.448	.064	.105
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Cu2247	Fe2343	Mg2790	Mg2802	Mn2593	Mo2045	Ni2216	Ni2316	Pb2169	Pb2203	Sb2068	Se1960
Avg	**5280.**	**4770.**	**5120.**	**5090.**	**4730.**	**4730.**	**5570.**	**4970.**	**5430.**	**4680.**	**5290.**	**4850.**
Stddev	22.	99.	25.	13.	20.	29.	24.	23.	19.	23.	7.	11.
%RSD	.420	2.07	.481	.258	.427	.611	.431	.456	.347	.494	.135	.232
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Se2062	Tl1908	Tl2767	V_2908	Zn2062
Avg	**5060.**	**5070.**	**4510.**	**5000.**	**4970.**
Stddev	12.	39.	73.	13.	28.
%RSD	.229	.772	1.61	.267	.573
Check ?	None	None	None	None	None
Value					
Range					

Sample Name: ccv1 Acquired: 11/19/2010 22:30:52 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Avg	99595.
Stddev	483.
%RSD	.48453

Sample Name: ccv2 Acquired: 11/19/2010 22:36:08 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3968	Cd2265	Co2286	Co2388	Cr2677	Cu2247	Fe2343
Avg	**51.7**	**529.**	**472.**	**448.**	**51.3**	**703.**	**53.2**	**567.**	**410.**	**453.**	**537.**	**460.**
Stddev	1.4	2.	2.	1.	.4	3.	.2	3.	3.	4.	4.	9.
%RSD	2.61	.400	.342	.309	.701	.478	.460	.544	.653	.946	.692	2.04
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Fe2599	Mg2795	Mg2802	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Sb2175	Se1960	Tl1908	V_2908
Avg	**510.**	**515.**	**572.**	**477.**	**466.**	**502.**	**484.**	**535.**	**543.**	**495.**	**538.**	**498.**
Stddev	7.	3.	3.	4.	3.	1.	4.	4.	2.	18.	9.	3.
%RSD	1.34	.565	.607	.761	.591	.162	.801	.771	.296	3.62	1.60	.593
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Zn2138
Avg	**474.**
Stddev	2.
%RSD	.433
Check ?	None
Value	
Range	

Sample Name: ccv2 Acquired: 11/19/2010 22:36:08 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Avg	**101790.**
Stddev	665.
%RSD	.65287

Sample Name: ccb Acquired: 11/19/2010 22:46:49 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3179	Ca3968	Cd2265	Co2286	Cr2677	Cu2247	Fe2599
Avg	**-.159**	**-6.21**	**2.60**	**.606**	**-.085**	**205.**	**244.**	**.089**	**.259**	**-.776**	**5.44**	**-25.8**
Stddev	.678	.83	3.62	.655	.114	5.	2.	.143	.547	.275	1.01	1.8
%RSD	428.	13.4	140.	108.	135.	2.42	.800	161.	212.	35.5	18.5	6.92
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mg2795	Mg2802	Mn2576	Mo2020	Ni2216	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**98.4**	**108.**	**.286**	**-1.02**	**.313**	**-1.76**	**-2.40**	**-.673**	**2.94**	**2.93**	**.878**	**-.188**
Stddev	.3	.	.262	.56	.416	.28	2.83	3.20	1.86	2.90	.109	.216
%RSD	.309	.200	91.5	54.8	133.	16.2	118.	476.	63.2	99.2	12.4	115.
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Int. Std.	Y_3600
Avg	**99671.**
Stddev	159.
%RSD	.15923

Sample Name: 871193 Acquired: 11/19/2010 22:52:16 Type: Unk
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: 2 Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**2.07**	**153000.**	**202.**	**1880.**	**13.4**	**721000.**	**16.6**	**193.**	**269.**	**306.**
Stddev	.37	1910.	6.	17.	.3	6830.	.5	2.	6.	5.
%RSD	18.0	1.25	2.93	.914	2.16	.947	3.16	1.28	2.31	1.47

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2216	Pb2169	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**358000.**	**46200.**	**12600.**	**18.6**	**432.**	**436.**	**.239**	**9.58**	**.197**	**291.**
Stddev	3130.	580.	129.	.7	5.	11.	2.31	8.87	2.59	5.
%RSD	.875	1.26	1.02	3.85	1.20	2.46	965.	92.6	1320.	1.87

Elem	Zn2062
Units	ug/L
Avg	**904.**
Stddev	12.
%RSD	1.35

Int. Std.	Y_3600
Units	Cts/S
Avg	**97380.**
Stddev	1281.
%RSD	1.3159

Sample Name: 871194 Acquired: 11/19/2010 22:58:07 Type: Unk
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: 2 Post Digestion: J
Comment:

Elem	Ag3280	Al3092	Al3961	As1937	Ba4554	Ba4934	Be3130	Ca3179	Cd2265	Co2286
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1.66**	**61400.**	**60500.**	**127.**	**764.**	**881.**	**7.34**	**207000.**	**15.7**	**440.**
Stddev	1.91	1480.	1350.	4.	17.	24.	.01	2760.	.1	6.
%RSD	115.	2.41	2.23	3.01	2.22	2.74	.168	1.34	.422	1.34

Elem	Cr2835	Cu2247	Fe2343	Mg2790	Mn2593	Mo2020	Ni2216	Ni2316	Pb2169	Pb2203
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**2900.**	**1990.**	**219000.**	**24500.**	**6560.**	**12.3**	**437.**	**385.**	**593.**	**418.**
Stddev	69.	27.	4960.	565.	170.	.3	7.	6.	4.	7.
%RSD	2.38	1.35	2.27	2.31	2.60	2.59	1.57	1.64	.637	1.64

Elem	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**26.7**	**14.0**	**1.29**	**116.**	**5340.**
Stddev	.2	.3	2.29	1.	83.
%RSD	.909	2.11	178.	1.15	1.56

Int. Std.	Y_3600
Units	Cts/S
Avg	**97638.**
Stddev	1339.
%RSD	1.3717

Sample Name: 871195 Acquired: 11/19/2010 23:03:51 Type: Unk
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: 2 Post Digestion: 2
Comment:

Elem	Ag3280	Al3092	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.694**	**47000.**	**142.**	**559.**	**5.77**	**125000.**	**14.7**	**579.**	**194.**	**2710.**
Stddev	.670	170.	6.	1.	.08	177.	.3	3.	1.	13.
%RSD	96.4	.362	4.21	.250	1.41	.142	2.06	.493	.633	.477

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2216	Pb2169	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**229000.**	**19500.**	**6500.**	**6.96**	**284.**	**431.**	**1.35**	**-9.06**	**6.09**	**106.**
Stddev	120.	100.	21.	.15	1.	5.	4.36	7.18	6.94	1.
%RSD	.052	.514	.321	2.16	.421	1.26	322.	79.2	114.	1.23

Elem	Zn2062
Units	ug/L
Avg	**1000.**
Stddev	4.
%RSD	.403

Int. Std.	Y_3600
Units	Cts/S
Avg	**98143.**
Stddev	400.
%RSD	.40739

Sample Name: 871196 Acquired: 11/19/2010 23:09:27 Type: Unk
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: 2 Post Digestion: 2
Comment:

Elem	Ag3280	Al3092	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2388	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**2.52**	**45200.**	**168.**	**939.**	**5.22**	**729000.**	**13.3**	**15.2**	**155.**	**8860.**
Stddev	1.38	239.	7.	6.	.06	13200.	.2	5.3	1.	37.
%RSD	54.7	.529	4.15	.624	1.09	1.81	1.53	35.1	.720	.419

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2216	Pb2169	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**207000.**	**21900.**	**5590.**	**8.73**	**440.**	**562.**	**1.38**	**-4.93**	**3.67**	**96.9**
Stddev	2270.	93.	21.	1.10	2.	3.	1.77	3.41	5.15	1.3
%RSD	1.10	.427	.381	12.6	.558	.542	128.	69.0	140.	1.30

Elem	Zn2062
Units	ug/L
Avg	**1110.**
Stddev	5.
%RSD	.477

Int. Std.	Y_3600
Units	Cts/S
Avg	**95079.**
Stddev	811.
%RSD	.85282

Sample Name: 871197 Acquired: 11/19/2010 23:15:11 Type: Unk
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: 2 Post Digestion: J
Comment:

Elem	Ag3280	Al3092	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1.13**	**58200.**	**134.**	**1290.**	**8.25**	**934000.**	**14.6**	**451.**	**154.**	**2080.**
Stddev	.76	286.	3.	8.	.08	3420.	.5	5.	1.	25.
%RSD	67.1	.492	2.28	.603	1.01	.366	3.13	1.14	.435	1.18

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2216	Pb2169	Sb2175	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**219000.**	**34700.**	**8180.**	**8.63**	**365.**	**508.**	**-8.33**	**3.76**	**-5.19**	**86.4**
Stddev	768.	247.	42.	.36	4.	11.	4.54	11.5	6.02	.2
%RSD	.351	.712	.510	4.15	1.11	2.09	54.5	305.	116.	.236

Elem	Zn2062
Units	ug/L
Avg	**6090.**
Stddev	77.
%RSD	1.26

Int. Std.	Y_3600
Units	Cts/S
Avg	**95747.**
Stddev	189.
%RSD	.19733

Sample Name: 871198 Acquired: 11/19/2010 23:20:56 Type: Unk
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: 2 Post Digestion: 7
Comment:

Elem	Ag3280	Al3961	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**4.40**	**158000.**	**253.**	**6230.**	**17.5**	**1350000.**	**32.3**	**204.**	**1310.**
Stddev	.98	10600.	10.	440.	1.3	128000.	1.3	12.	89.
%RSD	22.4	6.70	3.87	7.07	7.31	9.51	4.16	5.65	6.79

Elem	Cu2247	Fe2343	Mg2790	Mn2593	Mo2020	Ni2216	Pb2169	Sb2068	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**348.**	**557000.**	**50600.**	**20100.**	**41.8**	**507.**	**780.**	**23.4**	**8.53**
Stddev	17.	37700.	3240.	1370.	1.8	28.	66.	3.1	11.3
%RSD	4.99	6.77	6.41	6.80	4.32	5.51	8.51	13.5	132.

Elem	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L
Avg	**29.7**	**343.**	**1190.**
Stddev	9.5	19.	69.
%RSD	32.1	5.50	5.77

Int. Std.	Y_3600
Units	Cts/S
Avg	**98224.**
Stddev	5736.
%RSD	5.8398

Sample Name: ccv1 Acquired: 11/19/2010 23:49:46 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

11.29.10

Elem	Ag3280	Al3092	Al3961	As1890	Ba4554	Ba4934	Be2348	Ca3179	Ca3968	Cd2288	Co2388	Cr2835
Avg	**517.**	**4700.**	**5090.**	**5130.**	**4810.**	**5490.**	**477.**	**5080.**	**5750.**	**502.**	**4340.**	**4440.**
Stddev	19.	201.	179.	175.	188.	209.	18.	201.	178.	18.	175.	178.
%RSD	3.59	4.27	3.52	3.42	3.91	3.80	3.71	3.96	3.10	3.60	4.03	4.01
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Cu2247	Fe2395	Mg2790	Mg2802	Mn2593	Mo2045	Ni2216	Ni2316	Pb2169	Pb2203	Sb2068	Se1960
Avg	**5620.**	**4490.**	**5260.**	**5170.**	**4630.**	**5030.**	**5940.**	**5300.**	**5730.**	**5250.**	**5590.**	**5080.**
Stddev	196.	183.	206.	208.	179.	180.	200.	185.	191.	390.	187.	181.
%RSD	3.49	4.08	3.91	4.02	3.86	3.58	3.36	3.50	3.33	7.43	3.33	3.57
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Se2062	Tl1908	Tl2767	V_2908	Zn2062
Avg	**5280.**	**5340.**	**4800.**	**5300.**	**5310.**
Stddev	207.	175.	345.	241.	189.
%RSD	3.93	3.28	7.19	4.56	3.57
Check ?	None	None	None	None	None
Value					
Range					

Sample Name: ccv1 Acquired: 11/19/2010 23:49:46 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Avg	**99064.**
Stddev	3379.
%RSD	3.4107

Sample Name: ccv2 Acquired: 11/19/2010 23:55:03 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1890	As1937	Ba4554	Ba4934	Be3130	Ca3179	Ca3968	Cd2265	Co2286	Co2388
Avg	**53.4**	**538.**	**497.**	**491.**	**449.**	**517.**	**51.3**	**473.**	**545.**	**55.0**	**584.**	**411.**
Stddev	3.3	41.	40.	36.	36.	47.	4.5	40.	45.	3.9	41.	30.
%RSD	6.13	7.63	8.09	7.34	7.95	9.08	8.73	8.54	8.26	7.07	6.95	7.21
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Cr2677	Cu2247	Fe2599	Mg2795	Mg2802	Mn2576	Mn2593	Mo2020	Ni2216	Ni2316	Pb2169	Pb2203
Avg	**469.**	**554.**	**464.**	**451.**	**500.**	**447.**	**443.**	**482.**	**582.**	**518.**	**549.**	**495.**
Stddev	33.	39.	39.	39.	43.	40.	38.	34.	41.	37.	44.	43.
%RSD	7.02	7.06	8.40	8.61	8.59	8.85	8.51	7.05	7.00	7.05	7.99	8.65
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Sb2068	Sb2175	Se1960	Tl1908	V_2908	Zn2138
Avg	**548.**	**557.**	**509.**	**553.**	**512.**	**489.**
Stddev	41.	36.	29.	39.	37.	35.
%RSD	7.43	6.53	5.77	7.00	7.25	7.05
Check ?	None	None	None	None	None	None
Value						
Range						

Sample Name: ccv2 Acquired: 11/19/2010 23:55:03 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Avg	**101400.**
Stddev	7240.
%RSD	7.1398

Sample Name: ccb Acquired: 11/20/2010 00:05:48 Type: QC
Method: DOD Calibration 1(v1278) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

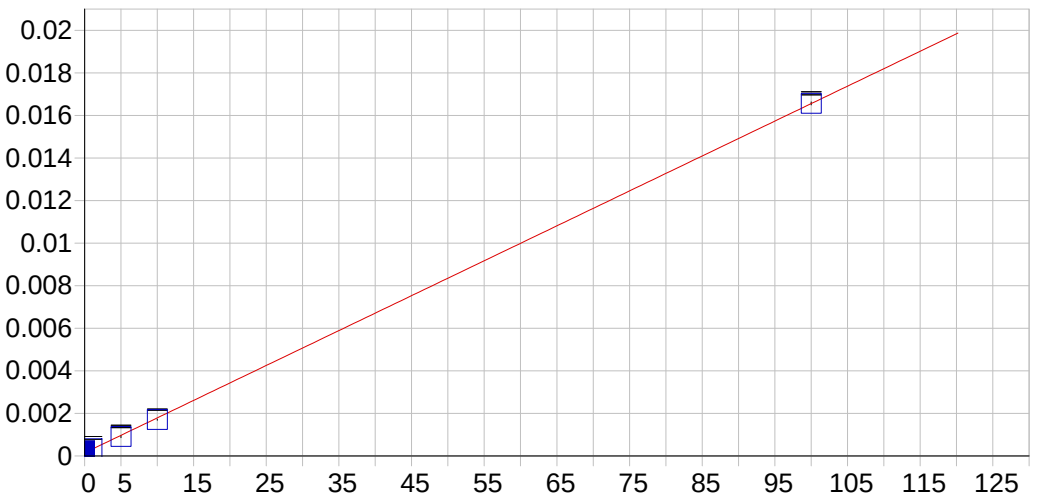
Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**-.090**	**-10.3**	**-3.38**	**-.039**	**.007**	**-27.2**	**-.074**	**-.316**	**-.502**	**-.126**	**-35.1**	**-4.20**
Stddev	.425	1.8	3.67	.444	.101	2.9	.076	.151	.633	.564	1.2	.07
%RSD	473.	17.0	108.	1130.	1380.	10.8	103.	47.7	126.	449.	3.50	1.65
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2216	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**-.220**	**-1.62**	**-.406**	**-2.08**	**-1.67**	**-1.17**	**7.75**	**-6.77**	**.881**	**-1.01**
Stddev	.492	.24	.230	.47	1.83	2.07	5.28	1.56	1.58	.13
%RSD	224.	14.9	56.6	22.8	110.	177.	68.2	23.0	179.	12.5
Check ?	None	None	None	None	None	None	None	None	None	None
Value										
Range										

Int. Std.	Y_3600
Avg	**96604.**
Stddev	1613.
%RSD	1.6694

Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)	Correlation	Std Error of Est	Predicted MDL	Predicted MQL
Ag 328.068 {103}	11/29/2010 14:28:12	11/29/2010 14:28:12	Linear	None	0.000149	0.000164	0.000000	1.000000	0.999950	0.000082	0.750653	2.502177
Ag 338.289 {100}	11/29/2010 13:44:25	11/29/2010 13:44:25	Linear	None	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	-1.000000	-1.000000
Al 167.079 {502}	11/29/2010 14:33:14	11/29/2010 14:33:14	Linear	None	0.000005	0.000001	0.000000	1.000000	0.999985	0.000002	5.116132	17.053772
Al 309.271 {109}	11/29/2010 14:50:36	11/29/2010 14:50:36	Linear	1/Conc	0.000777	0.000004	0.000000	1.000000	0.999992	0.000007	21.755675	72.518915
Al 396.152 { 85}	11/29/2010 15:02:54	11/29/2010 15:02:54	Full Fit	1/Conc	-0.000007	0.000007	0.000000	1.010000	0.999986	0.000089	17.280652	57.602174
As 189.042 {479}	11/29/2010 14:38:56	11/29/2010 14:38:56	Linear	1/Conc	0.000002	0.000000	0.000000	1.000000	0.999993	0.000000	14.569907	48.566358
As 193.759 {474}	11/30/2010 12:41:52	11/29/2010 14:33:14	Linear	None	-0.000003	0.000000	0.000000	1.000000	0.999953	0.000003	13.394792	44.649308
Ba 455.403 { 74}	11/29/2010 14:28:12	11/29/2010 14:28:12	Linear	1/Conc	0.000346	0.000354	0.000000	1.000000	0.999584	0.000005	0.517691	1.725638
Ba 493.409 { 68}	11/29/2010 14:38:56	11/29/2010 14:38:56	Linear	1/Conc	0.024320	0.000406	0.000000	1.000000	0.999981	0.000450	0.872765	2.909217
Be 234.861 {144}	11/29/2010 14:33:14	11/29/2010 14:33:14	Linear	None	0.000106	0.000051	0.000000	1.000000	0.999996	0.000110	0.465511	1.551704
Be 313.042 {108}	11/29/2010 14:33:14	11/29/2010 14:33:14	Linear	1/Conc	0.000077	0.000704	0.000000	1.000000	0.999989	0.000002	0.113431	0.378104
Ca 317.933 {106}	11/29/2010 15:02:54	11/29/2010 15:02:54	Full Fit	1/Conc	0.006641	0.000013	-0.000000	0.990000	0.999993	0.000087	3.401242	11.337472
Ca 393.366 { 86}	11/29/2010 14:33:14	11/29/2010 14:33:14	Linear	None	0.003072	0.000385	0.000000	1.000000	0.999986	0.001649	0.346863	1.156209
Ca 396.847 { 85}	11/29/2010 14:38:56	11/29/2010 14:38:56	Linear	1/Conc	0.002441	0.000583	0.000000	1.000000	0.999986	0.000145	0.131460	0.438199
Cd 226.502 {449}	11/29/2010 14:33:14	11/29/2010 14:33:14	Linear	1/Conc	-0.000005	0.000053	0.000000	1.000000	0.999728	0.000001	0.231121	0.770404
Cd 228.802 {447}	11/29/2010 14:33:14	11/29/2010 14:33:14	Linear	None	0.000171	0.000041	0.000000	1.000000	0.999975	0.000226	0.254003	0.846676
Co 228.616 {447}	11/29/2010 14:33:14	11/29/2010 14:33:14	Linear	1/Conc	-0.000002	0.000024	0.000000	1.000000	0.999796	0.000000	0.362995	1.209985
Co 238.892 {141}	11/29/2010 14:38:56	11/29/2010 14:38:56	Linear	1/Conc	-0.000006	0.000005	0.000000	1.000000	1.000000	0.000000	4.447794	14.825980
Cr 267.716 {126}	11/29/2010 14:33:14	11/29/2010 14:33:14	Linear	1/Conc	0.000083	0.000048	0.000000	1.000000	0.999312	0.000002	1.147255	3.824183
Cr 283.563 {119}	11/29/2010 14:44:49	11/29/2010 14:44:49	Linear	1/Conc	0.000038	0.000014	0.000000	1.000000	0.999975	0.000009	3.164401	10.548005
Cu 224.700 {450}	11/29/2010 14:38:56	11/29/2010 14:38:56	Linear	1/Conc	0.000046	0.000010	0.000000	1.000000	0.999849	0.000002	1.053570	3.511902
Cu 324.754 {104}	11/29/2010 14:44:49	11/29/2010 14:44:49	Linear	None	0.001803	0.000003	0.000000	1.000000	0.999927	0.002137	19.765185	65.883951
Cu 327.396 {103}	11/29/2010 14:33:14	11/29/2010 14:33:14	Linear	None	0.003126	0.000066	0.000000	1.000000	0.999955	0.000276	1.929896	6.432986
Fe 234.349 {144}	11/29/2010 15:02:54	11/29/2010 15:02:54	Full Fit	1/Conc	0.000115	0.000001	0.000000	1.030000	0.999991	0.000012	26.149134	87.163780
Fe 239.562 {141}	11/29/2010 14:38:56	11/29/2010 14:38:56	Linear	None	0.000284	0.000005	0.000000	1.000000	0.999977	0.000263	3.758813	12.529376
Fe 259.940 {130}	12/01/2010 12:56:40	11/29/2010 14:33:14	Linear	None	12.944856	0.326141	0.000000	1.000000	0.996143	14.258800	9.293138	30.977125
Mg 279.079 {121}	11/29/2010 15:02:54	11/29/2010 15:02:54	Full Fit	None	-0.000066	0.000001	0.000000	0.980000	0.999999	0.000369	61.851101	206.170336
Mg 279.553 {121}	11/29/2010 14:22:50	11/29/2010 14:22:50	Linear	None	0.000133	0.000175	0.000000	1.000000	0.999949	0.000047	0.135029	0.450096
Mg 280.270 {120}	11/29/2010 14:38:56	11/29/2010 14:38:56	Linear	1/Conc	0.000057	0.000151	0.000000	1.000000	0.999931	0.000323	0.206956	0.689854
Mn 257.610 {131}	11/29/2010 14:38:56	11/29/2010 14:38:56	Linear	1/Conc	-0.000035	0.000092	0.000000	1.000000	0.999955	0.000003	0.451911	1.506371
Mn 259.373 {130}	11/29/2010 14:44:49	11/29/2010 14:44:49	Linear	1/Conc	0.000030	0.000066	0.000000	1.000000	0.999958	0.000284	0.618200	2.060668
Mo 202.030 {467}	11/29/2010 14:33:14	11/29/2010 14:33:14	Linear	None	0.000012	0.000006	0.000000	1.000000	0.999989	0.000010	0.982107	3.273690
Mo 203.844 {465}	11/29/2010 14:33:14	11/29/2010 14:33:14	Linear	None	0.000011	0.000003	0.000000	1.000000	0.999989	0.000005	1.977565	6.591883
Mo 204.598 {465}	11/29/2010 14:38:56	11/29/2010 14:38:56	Linear	1/Conc	0.000004	0.000004	0.000000	1.000000	0.999981	0.000001	1.533800	5.112667
Ni 221.647 {452}	11/29/2010 14:38:56	11/29/2010 14:38:56	Linear	1/Conc	0.318728	1.473390	0.000000	1.000000	0.999865	1.139195	0.574955	1.916516
Ni 231.604 {445}	11/29/2010 14:33:14	11/29/2010 14:33:14	Linear	None	-0.148209	1.131184	0.000000	1.000000	0.999976	2.527325	0.625252	2.084174
Pb 216.999 {455}	11/29/2010 14:44:49	11/29/2010 14:44:49	Full Fit	None	0.000012	0.000001	0.000000	0.960000	1.000000	0.000000	8.945351	29.817838
Pb 220.353 {453}	11/29/2010 14:33:14	11/29/2010 14:33:14	Linear	1/Conc	-0.000007	0.000005	0.000000	1.000000	0.999616	0.000000	2.141912	7.139708
Sb 206.833 {463}	11/29/2010 14:38:57	11/29/2010 14:38:57	Linear	1/Conc	0.000014	0.000002	0.000000	1.000000	0.999373	0.000001	4.151887	13.839624
Sb 217.581 {455}	11/29/2010 14:38:57	11/29/2010 14:38:57	Linear	1/Conc	0.000005	0.000002	0.000000	1.000000	0.999479	0.000001	5.174056	17.246853
Se 196.090 {472}	11/30/2010 12:52:25	11/29/2010 14:38:57	Linear	1/Conc	0.000010	0.000000	0.000000	1.000000	0.999874	0.000000	13.937161	46.457203
Se 206.279 {463}	11/30/2010 12:47:49	11/29/2010 14:38:57	Linear	None	-0.000001	0.000000	0.000000	1.000000	0.999998	0.000002	57.647198	192.157326
Tl 190.856 {477}	11/30/2010 13:12:13	11/29/2010 14:38:57	Full Fit	1/Conc	-0.000001	0.000001	-0.000000	1.010000	0.999898	0.000000	7.504357	25.014524
Tl 276.787 {122}	11/29/2010 14:38:57	11/29/2010 14:38:57	Linear	None	0.000014	0.000000	0.000000	1.000000	0.999993	0.000010	156.463453	521.544842

Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)	Correlation	Std Error of Est	Predicted MDL	Predicted MQL
V 290.882 {116}	11/29/2010 14:38:57	11/29/2010 14:38:57	Linear	1/Conc	0.001482	0.000084	0.000000	1.000000	0.999997	0.000034	0.854991	2.849969
V 292.402 {115}	11/30/2010 12:34:27	11/29/2010 14:33:15	Linear	None	0.000066	0.000054	0.000000	1.000000	0.999994	0.000078	1.321853	4.406176
Zn 206.200 {463}	11/29/2010 14:44:49	11/29/2010 14:44:49	Full Fit	None	0.000131	0.000013	-0.000000	1.000000	1.000000	0.000000	0.455110	1.517034
Zn 213.856 {458}	11/29/2010 14:33:15	11/29/2010 14:33:15	Linear	1/Conc	0.000035	0.000027	0.000000	1.000000	0.999888	0.000002	0.257457	0.858191
Y 360.073 { 94}*	11/29/2010 13:44:25	11/29/2010 13:44:25	Linear	None	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	-1.000000	-1.000000
B 249.773 {135}	11/29/2010 14:33:15	11/29/2010 14:33:15	Linear	None	0.000023	0.000008	0.000000	1.000000	0.999996	0.000014	4.511657	15.038857
Li 670.784 { 50}	11/29/2010 14:33:15	11/29/2010 14:33:15	Linear	None	0.000268	0.000134	0.000000	1.000000	0.999992	0.000230	1.989618	6.632061
Na 330.298 {102}	11/29/2010 14:50:36	11/29/2010 14:50:36	Linear	1/Conc	0.000033	0.000000	0.000000	1.000000	1.000000	0.000000	3215.59022	10718.6340
Si 251.611 {134}	11/29/2010 14:33:15	11/29/2010 14:33:15	Linear	None	0.000105	0.000000	0.000000	1.000000	1.000000	0.000000	359.657868	1198.85956
Sr 407.771 { 83}	11/29/2010 14:38:57	11/29/2010 14:38:57	Linear	1/Conc	-0.003909	0.000965	0.000000	1.000000	0.999989	0.000018	0.114919	0.383064
Ti 334.941 {101}	11/29/2010 14:33:15	11/29/2010 14:33:15	Linear	1/Conc	-0.000015	0.000055	0.000000	1.000000	0.999901	0.000004	1.186034	3.953447

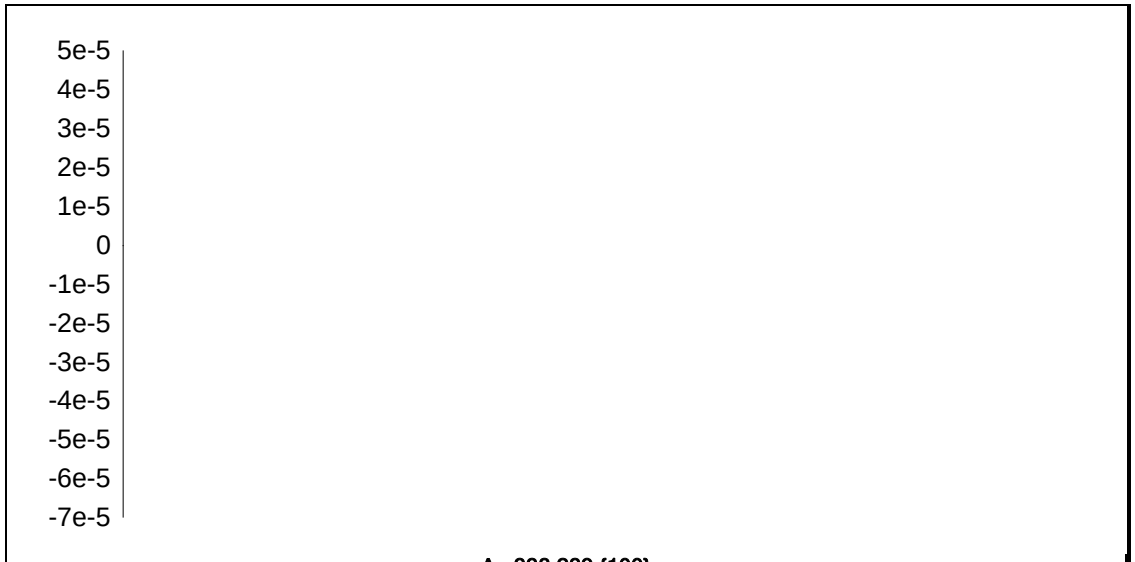


Ag 328.068 {103}

Date of Fit:	11/29/2010 14:28:12	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000149	Re-Slope:	1.000000
A1 (Gain):	0.000164	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999950	Status:	OK.
Std Error of Est:	0.000082		
Predicted MDL:	0.750653		
Predicted MQL:	2.502177		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.51260	.513	.000	.00023	.000	1
CalibStd=100	100.00	100.07	.067	.067	.01657	.000	1
CalibStd=10	10.000	9.4778	-.522	-5.22	.00170	.000	1
CalibStd=1	1.0000	1.2921	.292	29.2	.00036	.000	1
CalibStd=5	5.0000	4.6507	-.349	-6.99	.00091	.000	1

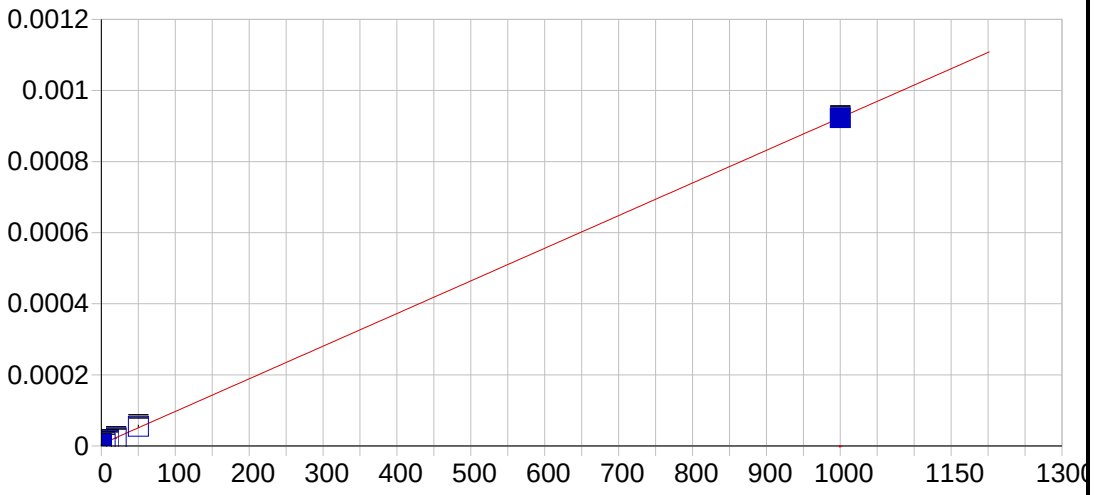


Ag 338.289 {100}

Date of Fit:	11/29/2010 13:44:25	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning Zero Gain
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00001	.000	1

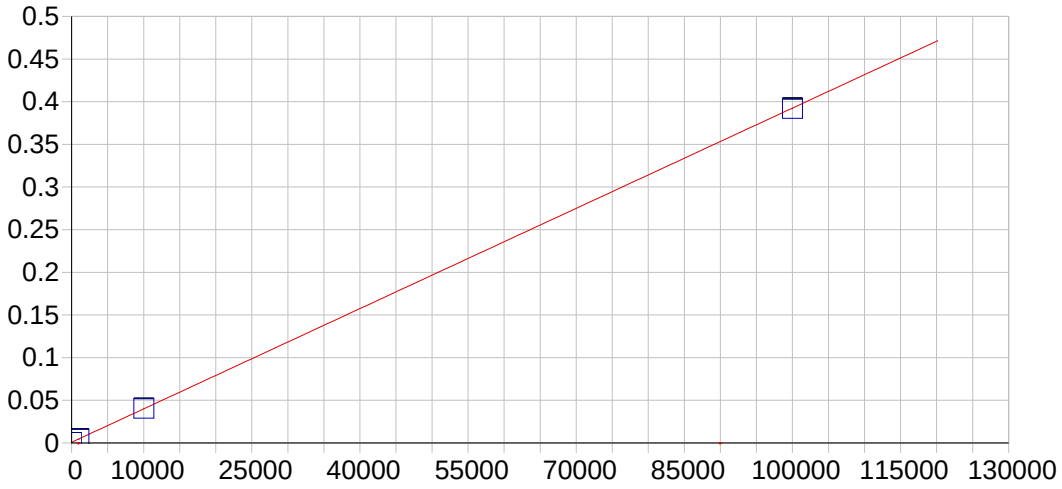


Al 167.079 {502}

Date of Fit:	11/29/2010 14:33:14	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000005	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999985	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	5.116132		
Predicted MQL:	17.053772		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-1.4034	-1.40	.000	.00000	.000	1
CalibStd=100	1000.0	999.82	-.179	-.018	.00092	.000	1
CalibStd=20	20.000	18.778	-1.22	-6.11	.00002	.000	1
CalibStd=10	10.000	10.323	.323	3.23	.00001	.000	1
CalibStd=5	5.0000	3.3093	-1.69	-33.8	.00001	.000	1
CalibStd=50	50.000	54.173	4.17	8.35	.00005	.000	1

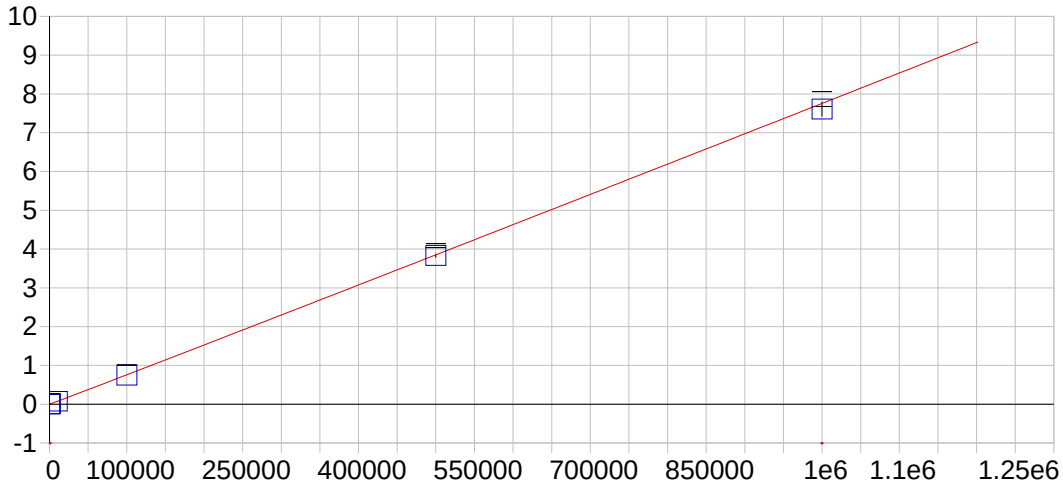


Al 309.271 {109}

Date of Fit:	11/29/2010 14:50:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000777	Re-Slope:	1.000000
A1 (Gain):	0.000004	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999992	Status:	OK.
Std Error of Est:	0.000007		
Predicted MDL:	21.755675		
Predicted MQL:	72.518915		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00420	-.004	.000	.00078	.000	1
CalibStd=100	10000.	10125.	125.	1.25	.04044	.000	1
CalibStd=100	100000.	99883.	-117.	-.117	.39206	.001	1
CalibStd=100	1000.0	992.92	-7.08	-.708	.00467	.000	1

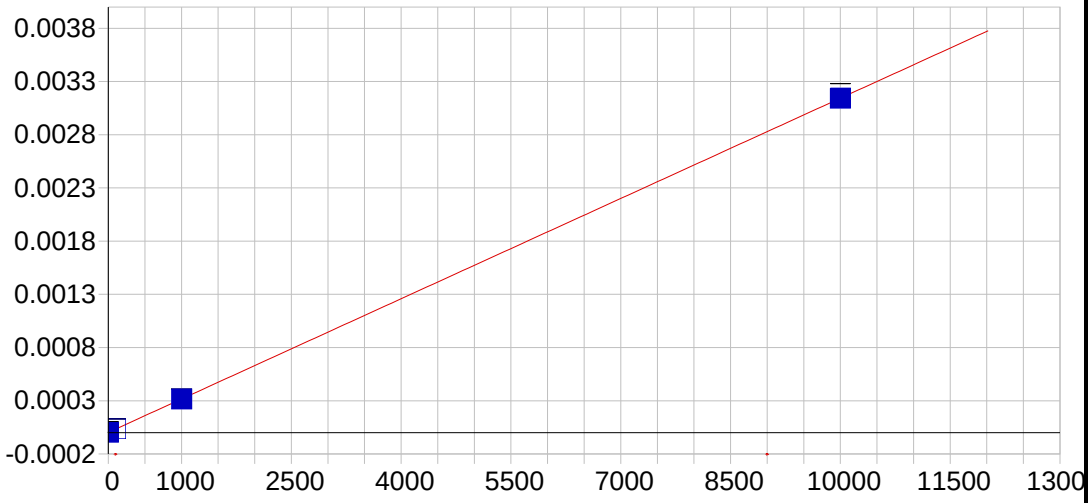


Al 396.152 { 85}

Date of Fit:	11/29/2010 15:02:54	Type of Fit:	Full Fit	Weighting:	1/Conc

A0 (Offset):	-0.000007	Re-Slope:	1.000000
A1 (Gain):	0.000007	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.010000		
Correlation:	0.999986	Status:	OK.
Std Error of Est:	0.000089		
Predicted MDL:	17.280652		
Predicted MQL:	57.602174		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00001	.000	1
CalibStd=100	100000.	98361.	-1640.	-1.64	.74539	.002	1
CalibStd-100	1000000.	981200.	-18800.	-1.88	7.6088	.190	1
CalibStd=500	500000.	497260.	-2740.	-.548	3.8299	.053	1
CalibStd=100	1000.0	1060.0	60.0	6.00	.00767	.000	1
CalibStd=100	10000.	10374.	374.	3.74	.07686	.000	1

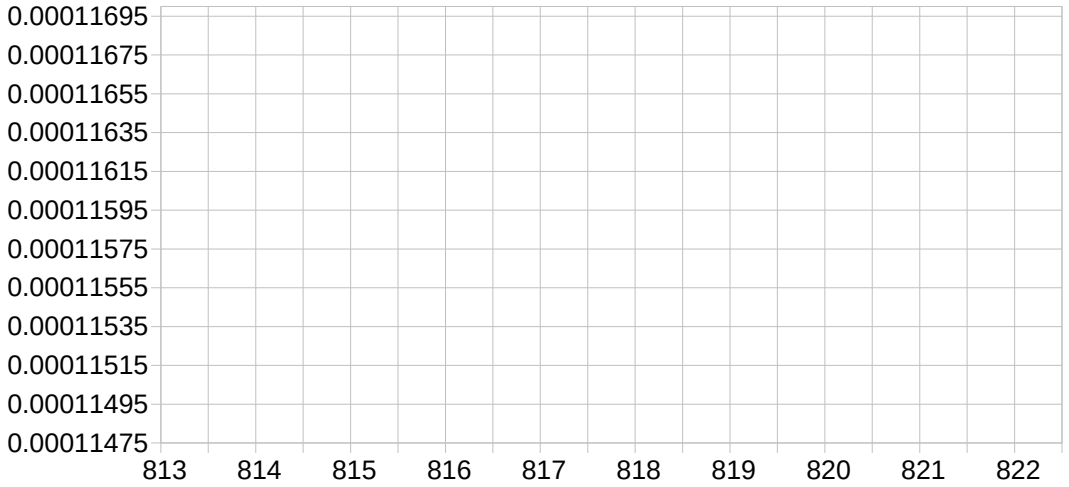


As 189.042 {479}

Date of Fit:	11/29/2010 14:38:56	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000002	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999993	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	14.569907		
Predicted MQL:	48.566358		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00361	-.004	.000	.00000	.000	1
CalibStd=100	1000.0	998.54	-1.46	-.146	.00032	.000	1
CalibStd=100	10000.	9997.7	-2.32	-.023	.00314	.000	1
CalibStd=100	100.00	103.78	3.78	3.78	.00004	.000	1

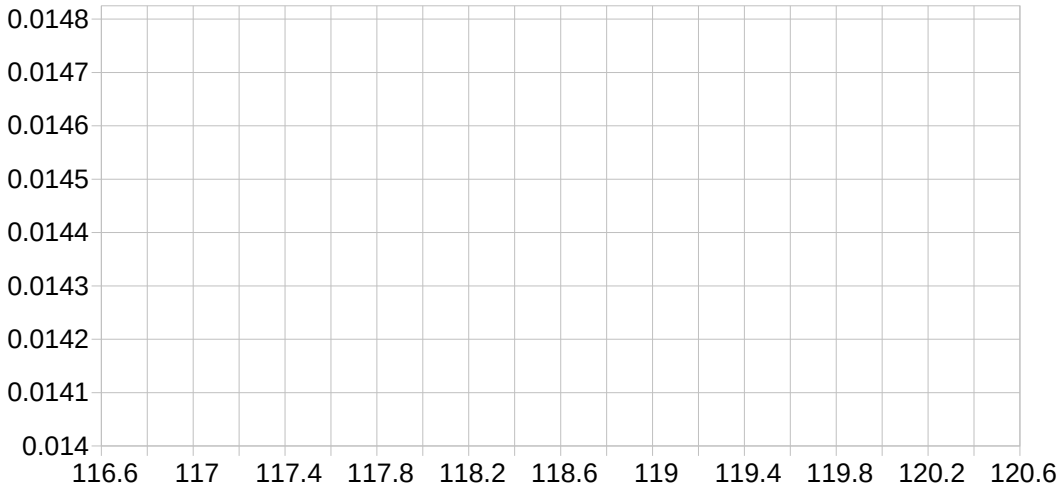


As 193.759 {474}

Date of Fit:	11/30/2010 12:41:52	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-0.000003	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999953	Status:	OK.
Std Error of Est:	0.000003		
Predicted MDL:	13.394792		
Predicted MQL:	44.649308		

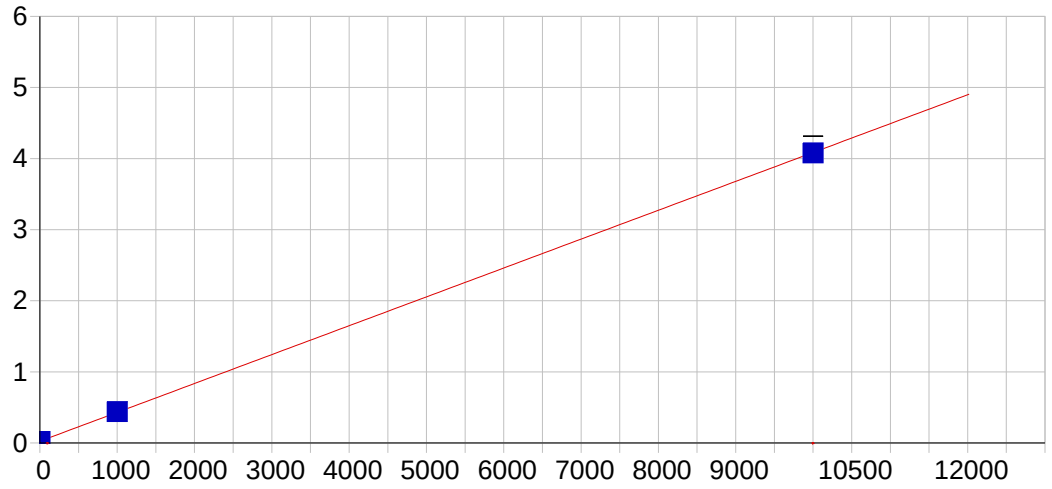
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	5.9779	5.98	.000	.00000	.000	1
CalibStd=100	1000.0	1000.6	.587	.059	.00049	.000	1
CalibStd=50	50.000	48.617	-1.38	-2.77	.00002	.000	1
CalibStd=10	10.000	2.3844	-7.62	-76.2	.00000	.000	0
CalibStd=100	100.00	94.819	-5.18	-5.18	.00004	.000	1



Ba 455.403 { 74}

Date of Fit:	11/29/2010 14:28:12	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000346		Re-Slope:	1.000000	
A1 (Gain):	0.000354		Y-int:	0.000000	
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.999584		Status:	OK.	
Std Error of Est:	0.000005				
Predicted MDL:	0.517691				
Predicted MQL:	1.725638				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00031	.000	.000	.00035	.000	1
CalibStd=50	50.000	49.634	-.366	-.733	.01793	.000	1
CalibStd=10	10.000	9.9257	-.074	-.743	.00386	.000	1
CalibStd=20	20.000	20.166	.166	.829	.00749	.000	1
CalibStd=100	100.00	101.18	1.18	1.18	.03619	.000	1
CalibStd=1	1.0000	.83163	-.168	-16.8	.00064	.000	1
CalibStd=5	5.0000	4.2660	-.734	-14.7	.00186	.000	1

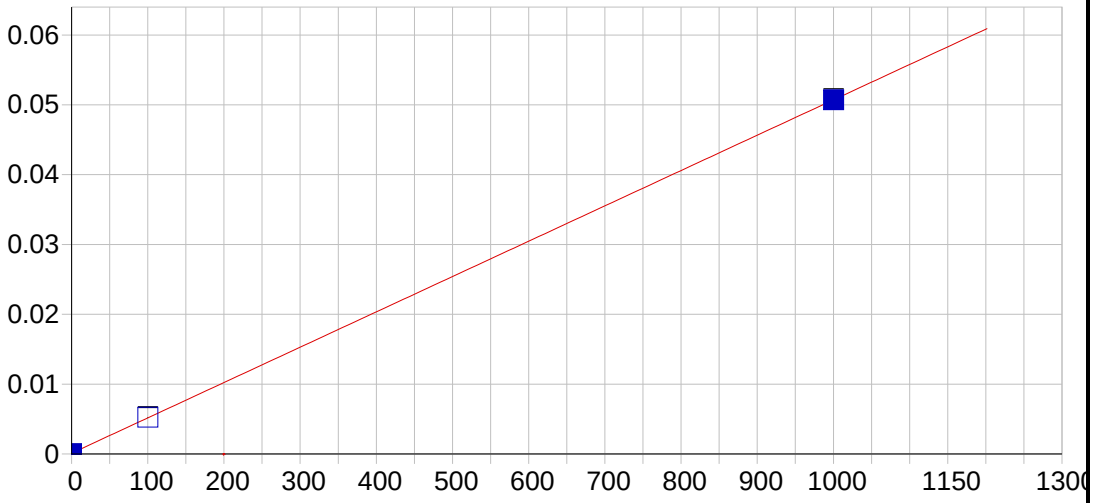


Ba 493.409 { 68}

Date of Fit:	11/29/2010 14:38:56	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.024320	Re-Slope:	1.000000
A1 (Gain):	0.000406	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999981	Status:	OK.
Std Error of Est:	0.000450		
Predicted MDL:	0.872765		
Predicted MQL:	2.909217		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.01735	-.017	.000	.02431	.001	1
CalibStd=100	1000.0	1019.3	19.3	1.93	.43828	.001	1
CalibStd=100	10000.	9980.7	-19.3	-.193	4.0778	.095	1

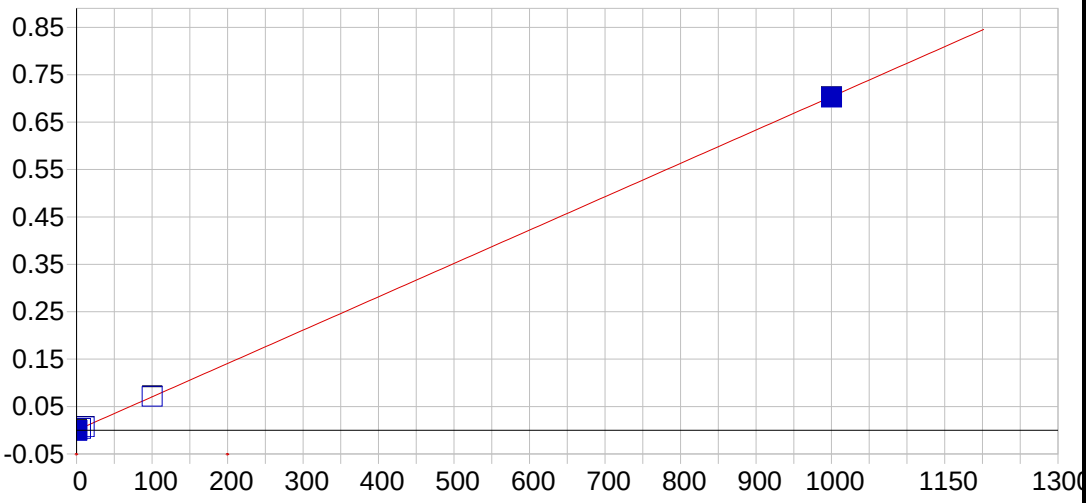


Be 234.861 {144}

Date of Fit:	11/29/2010 14:33:14	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000106	Re-Slope:	1.000000
A1 (Gain):	0.000051	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999996	Status:	OK.
Std Error of Est:	0.000110		
Predicted MDL:	0.465511		
Predicted MQL:	1.551704		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-1.4451	-1.45	.000	.00003	.000	1
CalibStd=100	1000.0	999.84	-.161	-.016	.05070	.000	1
CalibStd=100	100.00	101.61	1.61	1.61	.00525	.000	1

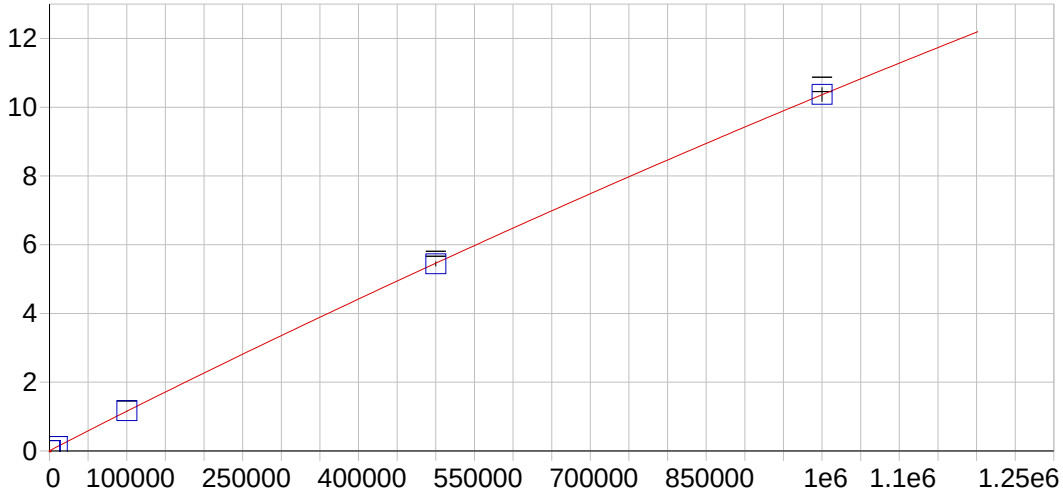


Be 313.042 {108}

Date of Fit:	11/29/2010 14:33:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000077	Re-Slope:	1.000000
A1 (Gain):	0.000704	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999989	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	0.113431		
Predicted MQL:	0.378104		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00003	.000	.000	.00008	.000	1
CalibStd=10	10.000	9.9429	-.057	-.571	.00707	.000	1
CalibStd=100	100.00	101.38	1.38	1.38	.07141	.000	1
CalibStd=0.5	.50000	.52967	.030	5.93	.00045	.000	1
CalibStd=5	5.0000	4.9559	-.044	-.883	.00356	.000	1
CalibStd=0.2	.25000	.26861	.019	7.44	.00027	.000	1
CalibStd=100	1000.0	998.67	-1.33	-.133	.70276	.001	1

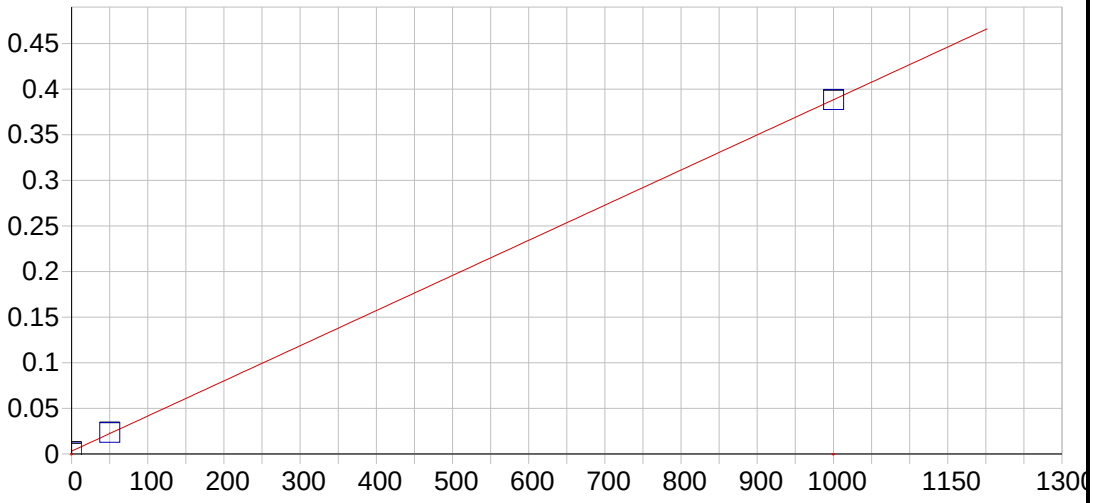


Ca 317.933 {106}

Date of Fit:	11/29/2010 15:02:54	Type of Fit:	Full Fit	Weighting:	1/Conc

A0 (Offset):	0.006641	Re-Slope:	1.000000
A1 (Gain):	0.000013	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	0.990000		
Correlation:	0.999993	Status:	OK.
Std Error of Est:	0.000087		
Predicted MDL:	3.401242		
Predicted MQL:	11.337472		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.03259	.033	.000	.00664	.000	1
CalibStd=100	10000.	9902.9	-97.1	-.971	.12394	.001	1
CalibStd=100	100000.	101070.	1070.	1.07	1.1670	.001	1
CalibStd=500	500000.	498170.	-1830.	-.365	5.4429	.073	1
CalibStd-100	1000000.	1000900.	894.	.089	10.371	.208	1
CalibStd=100	1000.0	965.40	-34.6	-3.46	.01835	.000	1

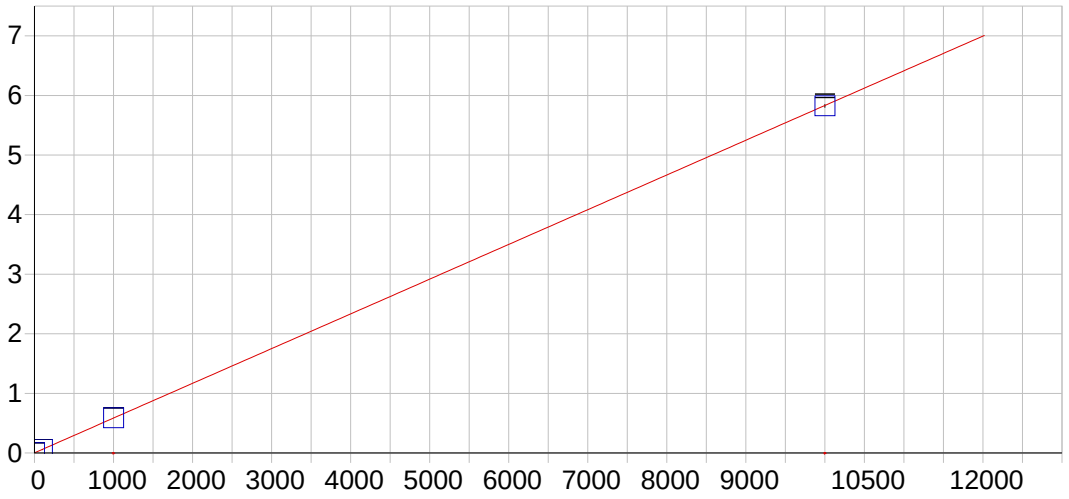


Ca 393.366 { 86}

Date of Fit:	11/29/2010 14:33:14	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.003072	Re-Slope:	1.000000
A1 (Gain):	0.000385	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999986	Status:	OK.
Std Error of Est:	0.001649		
Predicted MDL:	0.346863		
Predicted MQL:	1.156209		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-2.9448	-2.94	.000	.00194	.001	1
CalibStd=50	50.000	53.100	3.10	6.20	.02353	.000	1
CalibStd=100	1000.0	999.85	-.155	-.015	.38834	.000	1

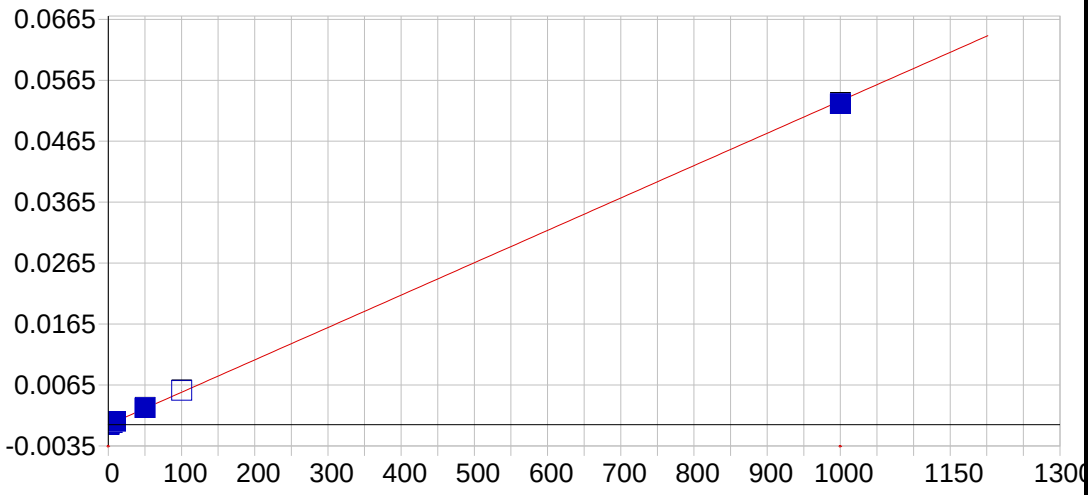


Ca 396.847 { 85}

Date of Fit:	11/29/2010 14:38:56	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002441	Re-Slope:	1.000000
A1 (Gain):	0.000583	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999986	Status:	OK.
Std Error of Est:	0.000145		
Predicted MDL:	0.131460		
Predicted MQL:	0.438199		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00561	-.006	.000	.00244	.001	1
CalibStd=100	10000.	9989.5	-10.5	-.105	5.8251	.030	1
CalibStd=100	100.00	105.19	5.19	5.19	.06375	.000	1
CalibStd=100	1000.0	1005.3	5.26	.526	.58839	.001	1

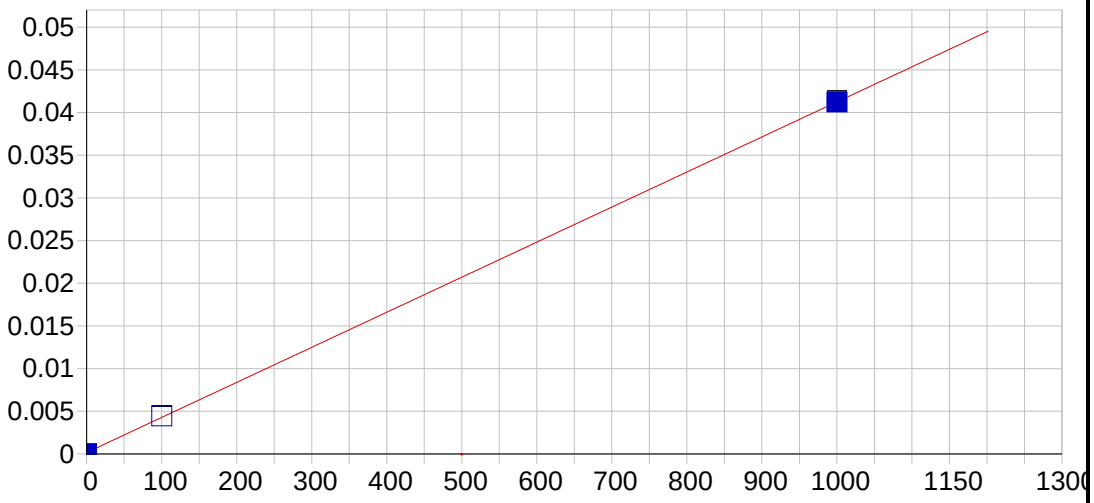


Cd 226.502 {449}

Date of Fit:	11/29/2010 14:33:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000005	Re-Slope:	1.000000
A1 (Gain):	0.000053	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999728	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	0.231121		
Predicted MQL:	0.770404		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00025	.000	.000	.00000	.000	1
CalibStd=50	50.000	52.289	2.29	4.58	.00277	.000	1
CalibStd=1	1.0000	1.0913	.091	9.13	.00005	.000	1
CalibStd=0.5	.50000	.57626	.076	15.3	.00003	.000	1
CalibStd=5	5.0000	5.3816	.382	7.63	.00028	.000	1
CalibStd=0.2	.25000	.39155	.142	56.6	.00002	.000	1
CalibStd=100	100.00	105.66	5.66	5.66	.00561	.000	1
CalibStd=10	10.000	10.174	.174	1.74	.00054	.000	1
CalibStd=100	1000.0	991.19	-8.81	-.881	.05265	.000	1

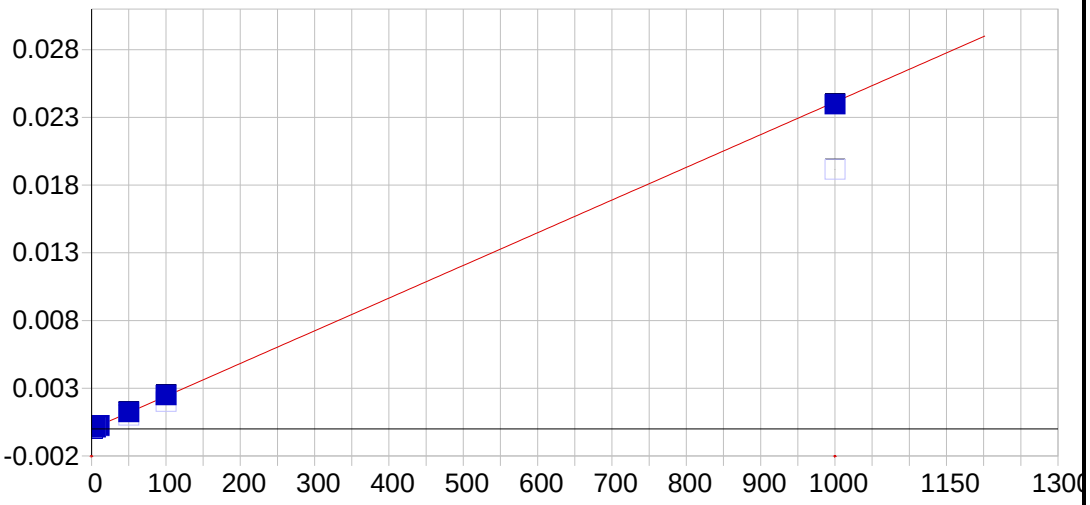


Cd 228.802 {447}

Date of Fit:	11/29/2010 14:33:14	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000171	Re-Slope:	1.000000
A1 (Gain):	0.000041	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999975	Status:	OK.
Std Error of Est:	0.000226		
Predicted MDL:	0.254003		
Predicted MQL:	0.846676		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-3.6742	-3.67	.000	.00002	.000	1
CalibStd=100	1000.0	999.59	-.408	-.041	.04124	.000	1
CalibStd=100	100.00	104.08	4.08	4.08	.00445	.000	1

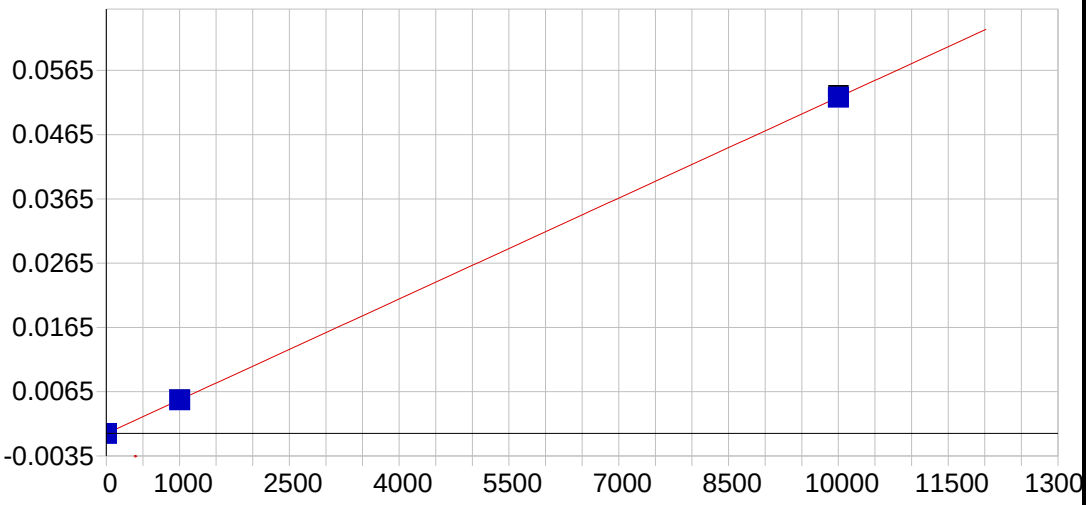


Co 228.616 {447}

Date of Fit:	11/29/2010 14:33:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000002	Re-Slope:	1.000000
A1 (Gain):	0.000024	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999796	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.362995		
Predicted MQL:	1.209985		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00029	.000	.000	.00000	.000	1
CalibStd=50	50.000	51.694	1.69	3.39	.00100	.000	1
CalibStd=10	10.000	10.334	.334	3.34	.00020	.000	1
CalibStd=5	5.0000	5.4350	.435	8.70	.00011	.000	1
CalibStd=1	1.0000	1.1080	.108	10.8	.00002	.000	1
CalibStd=100	100.00	103.82	3.82	3.82	.00202	.000	1
CalibStd=100	1000.0	993.58	-6.42	-.642	.01916	.000	1

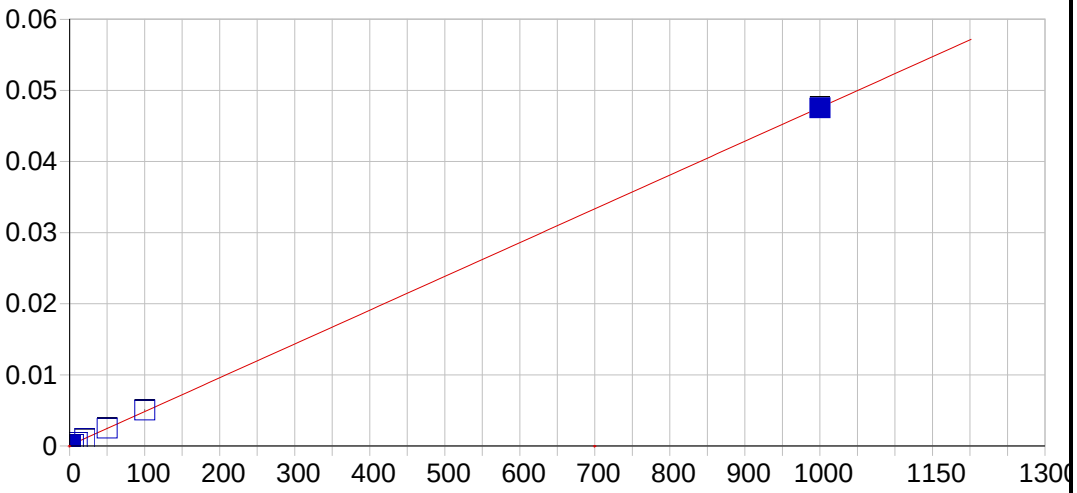


Co 238.892 {141}

Date of Fit:	11/29/2010 14:38:56	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000006	Re-Slope:	1.000000
A1 (Gain):	0.000005	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	4.447794		
Predicted MQL:	14.825980		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00089	.001	.000	-.00001	.000	1
CalibStd=100	1000.0	999.01	-.988	-.099	.00521	.000	1
CalibStd=100	10000.	10001.	.988	.010	.05226	.000	1

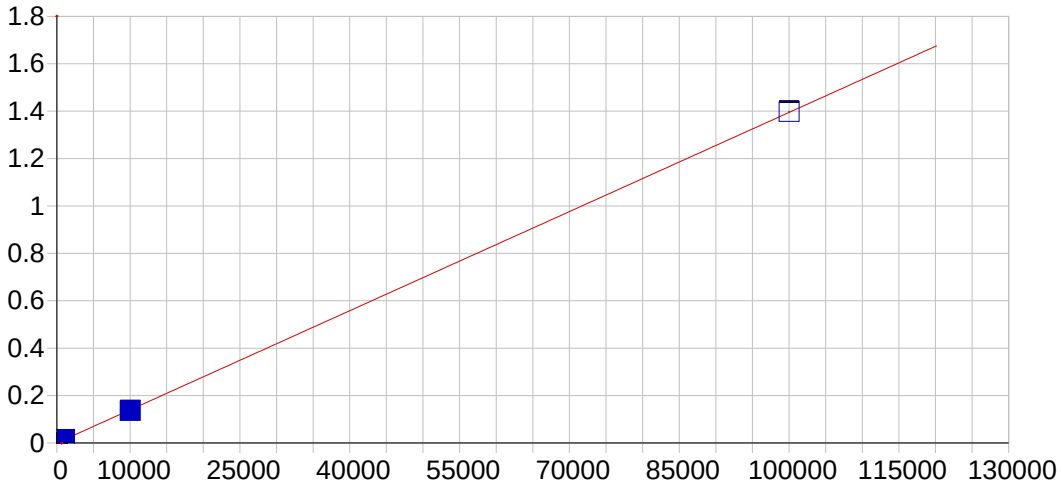


Cr 267.716 {126}

Date of Fit:	11/29/2010 14:33:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000083	Re-Slope:	1.000000
A1 (Gain):	0.000048	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999312	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	1.147255		
Predicted MQL:	3.824183		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00120	.001	.000	.00008	.000	1
CalibStd=10	10.000	8.5756	-1.42	-14.2	.00049	.000	1
CalibStd=5	5.0000	3.1708	-1.83	-36.6	.00023	.000	1
CalibStd=1	1.0000	.26070	-.739	-73.9	.00010	.000	1
CalibStd=50	50.000	50.933	.933	1.87	.00250	.000	1
CalibStd=100	1000.0	998.98	-1.02	-.102	.04756	.000	1
CalibStd=20	20.000	19.714	-.286	-1.43	.00102	.000	1
CalibStd=100	100.00	104.37	4.37	4.37	.00504	.000	1

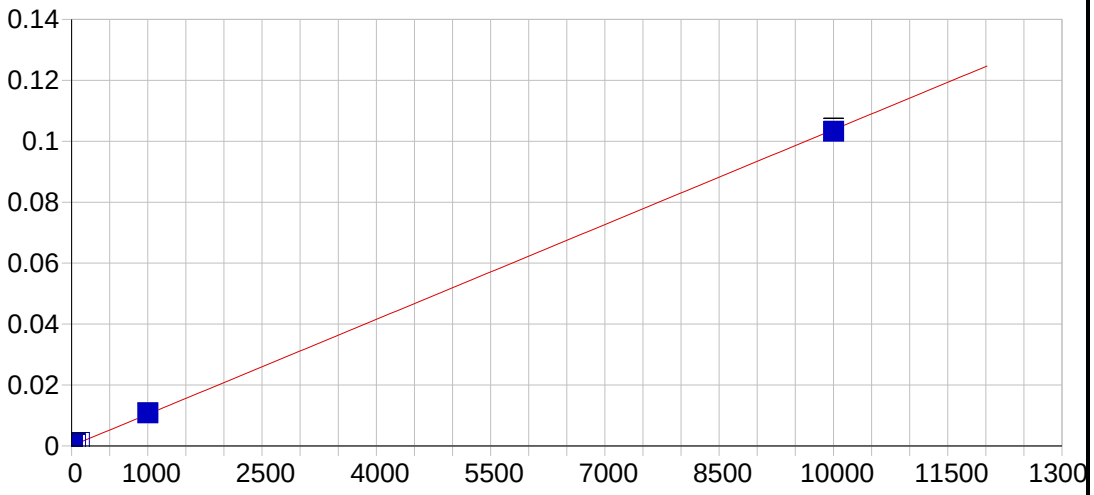


Cr 283.563 {119}

Date of Fit:	11/29/2010 14:44:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000038	Re-Slope:	1.000000
A1 (Gain):	0.000014	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999975	Status:	OK.
Std Error of Est:	0.000009		
Predicted MDL:	3.164401		
Predicted MQL:	10.548005		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00381	.004	.000	.00004	.000	1
CalibStd=50	50.000	47.992	-2.01	-4.02	.00071	.000	1
CalibStd=100	100.00	100.84	.841	.841	.00144	.000	1
CalibStd=100	1000.0	973.69	-26.3	-2.63	.01364	.000	1
CalibStd=100	10000.	9795.6	-204.	-2.04	.13686	.001	1
CalibStd-100	100000.	100230.	232.	.232	1.3980	.003	1

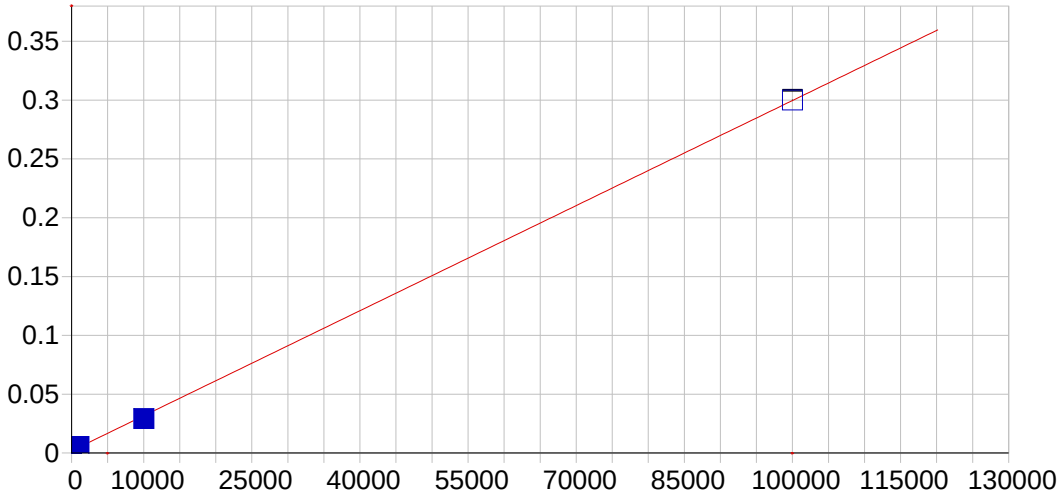


Cu 224.700 {450}

Date of Fit:	11/29/2010 14:38:56	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000046	Re-Slope:	1.000000
A1 (Gain):	0.000010	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999849	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	1.053570		
Predicted MQL:	3.511902		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00226	-.002	.000	.00005	.000	1
CalibStd=100	1000.0	1037.1	37.1	3.71	.01081	.000	1
CalibStd=50	50.000	54.607	4.61	9.21	.00061	.000	1
CalibStd=100	100.00	110.38	10.4	10.4	.00119	.000	1
CalibStd=5	5.0000	6.0083	1.01	20.2	.00011	.000	1
CalibStd=10	10.000	10.225	.225	2.25	.00015	.000	1
CalibStd=100	10000.	9946.7	-53.3	-.533	.10328	.001	1

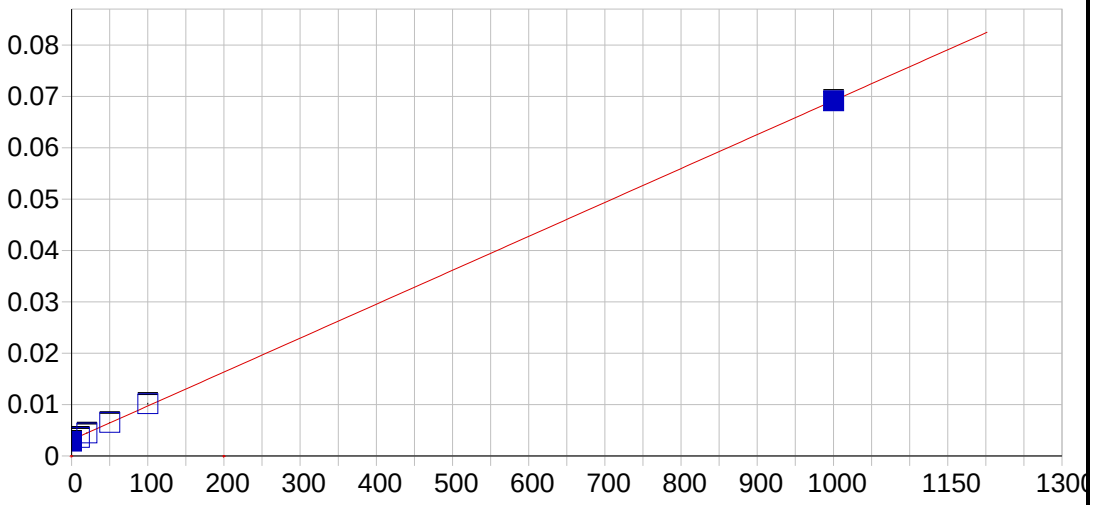


Cu 324.754 {104}

Date of Fit:	11/29/2010 14:44:49	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.001803	Re-Slope:	1.000000
A1 (Gain):	0.000003	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999927	Status:	OK.
Std Error of Est:	0.002137		
Predicted MDL:	19.765185		
Predicted MQL:	65.883951		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	474.25	474.	.000	.00322	.000	1
CalibStd=100	10000.	9155.1	-845.	-8.45	.02908	.000	1
CalibStd-100	100000.	100080.	81.6	.082	.29995	.001	1
CalibStd=100	1000.0	1289.1	289.	28.9	.00564	.000	1

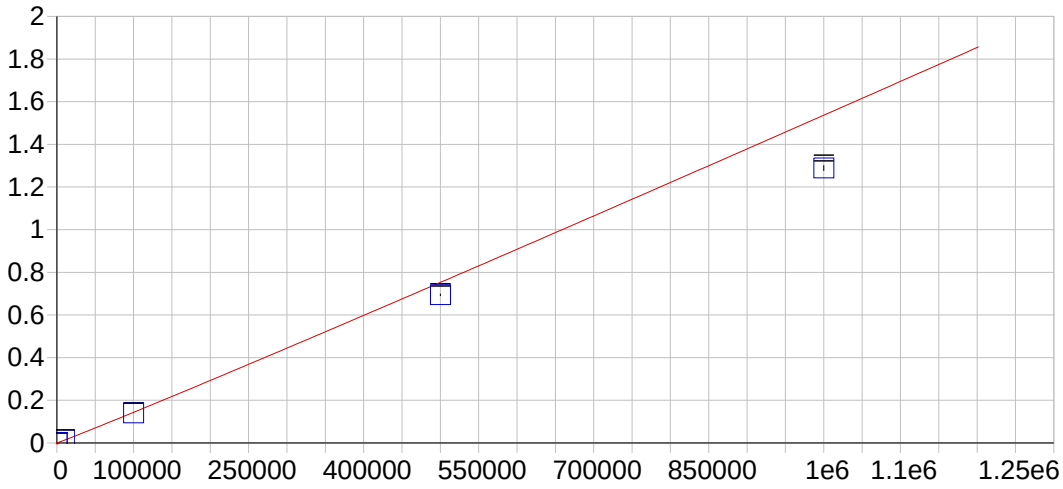


Cu 327.396 {103}

Date of Fit:	11/29/2010 14:33:14	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.003126	Re-Slope:	1.000000
A1 (Gain):	0.000066	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999955	Status:	OK.
Std Error of Est:	0.000276		
Predicted MDL:	1.929896		
Predicted MQL:	6.432986		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-3.9704	-3.97	.000	.00286	.000	1
CalibStd=20	20.000	19.918	-.082	-.409	.00444	.000	1
CalibStd=50	50.000	51.043	1.04	2.09	.00650	.000	1
CalibStd=100	100.00	106.62	6.62	6.62	.01017	.000	1
CalibStd=10	10.000	7.0744	-2.93	-29.3	.00359	.000	1
CalibStd=100	1000.0	999.32	-.683	-.068	.06912	.000	1

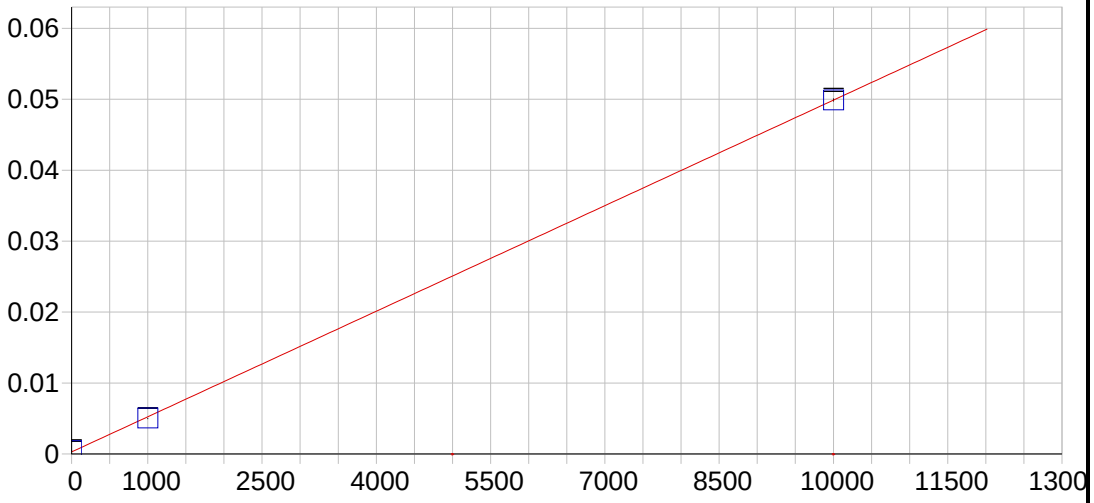


Fe 234.349 {144}

Date of Fit:	11/29/2010 15:02:54	Type of Fit:	Full Fit	Weighting:	1/Conc

A0 (Offset):	0.000115	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.030000		
Correlation:	0.999991	Status:	OK.
Std Error of Est:	0.000012		
Predicted MDL:	26.149134		
Predicted MQL:	87.163780		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00011	.000	1
CalibStd=100	10000.	10371.	371.	3.71	.01401	.000	1
CalibStd=500	500000.	462460.	-37500.	-7.51	.69449	.005	1
CalibStd=100	100000.	97672.	-2330.	-2.33	.14008	.000	1
CalibStd-100	1000000.	842980.	-157000.	-15.7	1.2888	.014	1
CalibStd=100	1000.0	1018.9	18.9	1.89	.00139	.000	1

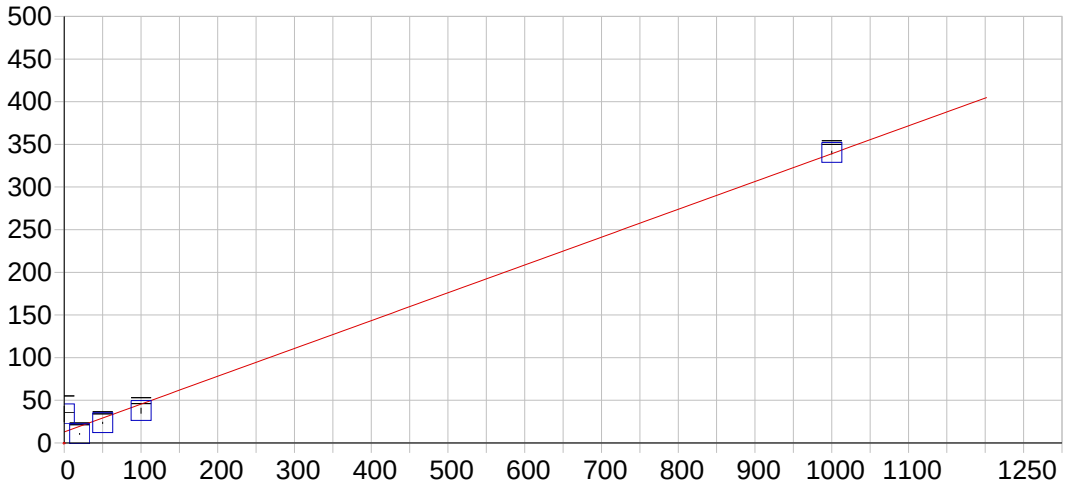


Fe 239.562 {141}

Date of Fit:	11/29/2010 14:38:56	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000284	Re-Slope:	1.000000
A1 (Gain):	0.000005	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999977	Status:	OK.
Std Error of Est:	0.000263		
Predicted MDL:	3.758813		
Predicted MQL:	12.529376		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	35.405	35.4	.000	.00046	.000	1
CalibStd=100	1000.0	960.66	-39.3	-3.93	.00505	.000	1
CalibStd=100	10000.	10004.	3.93	.039	.04990	.000	1

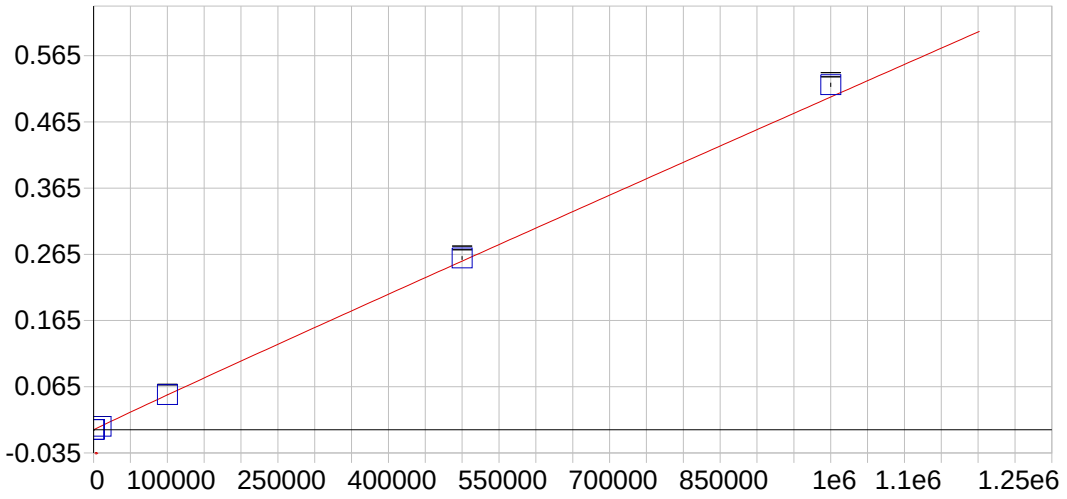


Fe 259.940 {130}

Date of Fit:	12/01/2010 12:56:40	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	12.944856	Re-Slope:	1.000000
A1 (Gain):	0.326141	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.996143	Status:	OK.
Std Error of Est:	14.258800		
Predicted MDL:	9.293138		
Predicted MQL:	30.977125		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	64.258	64.3	.000	33.902	9.50	1
CalibStd=100	1000.0	1003.8	3.78	.378	340.32	2.23	1
CalibStd=50	50.000	32.655	-17.3	-34.7	23.595	1.20	1
CalibStd=100	100.00	76.272	-23.7	-23.7	37.820	3.44	1
CalibStd=20	20.000	-6.9639	-27.0	-135.	10.674	1.03	1

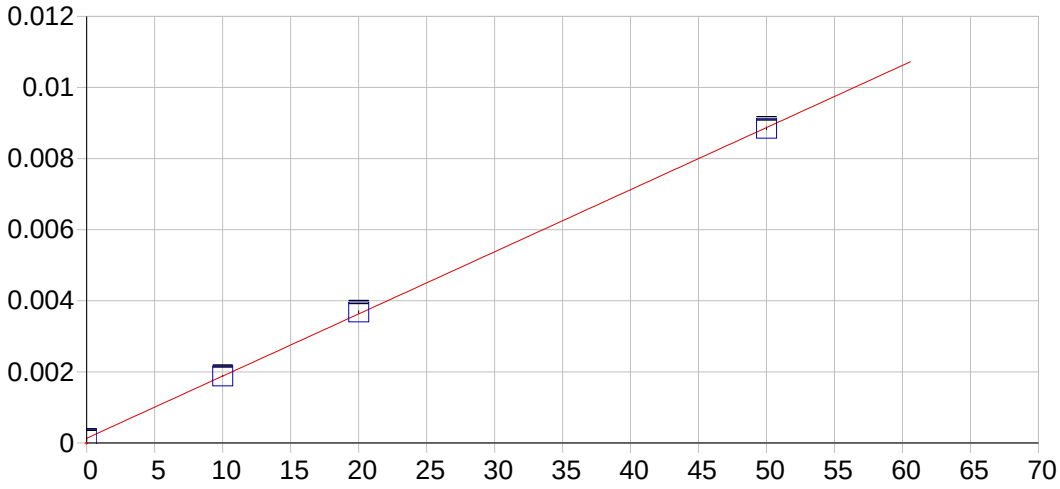


Mg 279.079 {121}

Date of Fit:	11/29/2010 15:02:54	Type of Fit:	Full Fit	Weighting:	None

A0 (Offset):	-0.000066	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	0.980000		
Correlation:	0.999999	Status:	OK.
Std Error of Est:	0.000369		
Predicted MDL:	61.851101		
Predicted MQL:	206.170336		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	136.98	137.	.000	.00002	.000	1
CalibStd=100	100000.	100990.	987.	.987	.05308	.000	1
CalibStd=500	500000.	509320.	9320.	1.86	.25944	.003	1
CalibStd=100	10000.	9277.0	-723.	-7.23	.00505	.000	1
CalibStd-100	1000000.	1037600.	37600.	3.76	.52114	.003	1
CalibStd=100	1000.0	1142.7	143.	14.3	.00059	.000	1

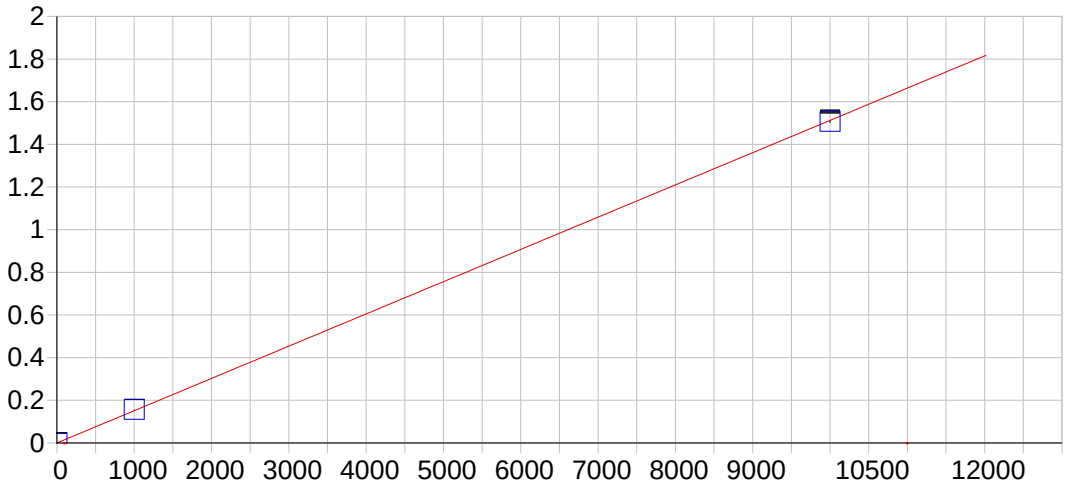


Mg 279.553 {121}

Date of Fit:	11/29/2010 14:22:50	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000133	Re-Slope:	1.000000
A1 (Gain):	0.000175	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999949	Status:	OK.
Std Error of Est:	0.000047		
Predicted MDL:	0.135029		
Predicted MQL:	0.450096		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.19097	-.191	.000	.00010	.000	1
CalibStd=50	50.000	49.876	-.124	-.247	.00885	.000	1
CalibStd=20	20.000	20.303	.303	1.52	.00368	.000	1
CalibStd=10	10.000	10.011	.011	.111	.00188	.000	1

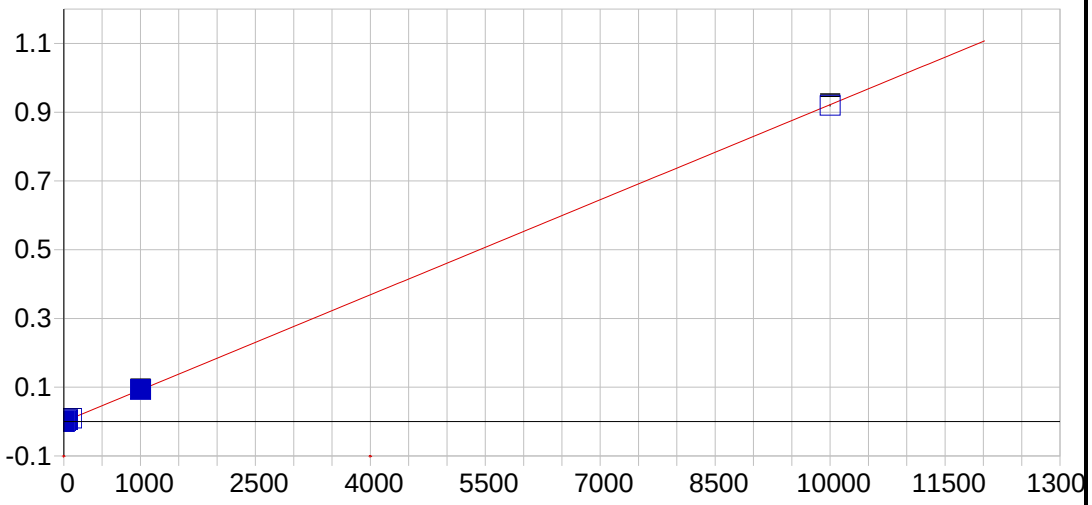


Mg 280.270 {120}

Date of Fit:	11/29/2010 14:38:56	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000057	Re-Slope:	1.000000
A1 (Gain):	0.000151	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999931	Status:	OK.
Std Error of Est:	0.000323		
Predicted MDL:	0.206956		
Predicted MQL:	0.689854		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.03343	-.033	.000	.00005	.000	1
CalibStd=100	1000.0	1037.1	37.1	3.71	.15691	.000	1
CalibStd=100	10000.	9962.9	-37.1	-.371	1.5068	.007	1

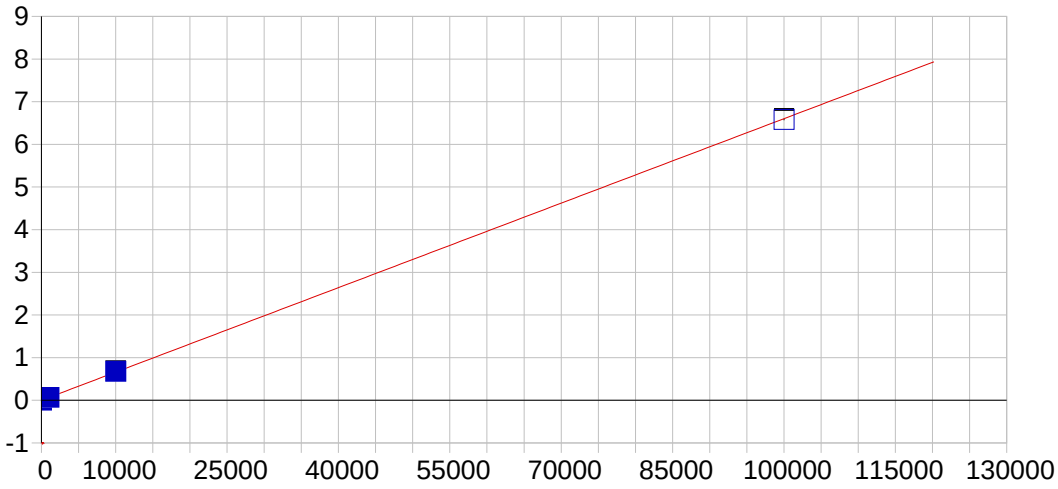


Mn 257.610 {131}

Date of Fit:	11/29/2010 14:38:56	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000035	Re-Slope:	1.000000
A1 (Gain):	0.000092	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999955	Status:	OK.
Std Error of Est:	0.000003		
Predicted MDL:	0.451911		
Predicted MQL:	1.506371		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00082	-.001	.000	-.00004	.000	1
CalibStd=10	10.000	10.818	.818	8.18	.00096	.000	1
CalibStd=50	50.000	52.380	2.38	4.76	.00479	.000	1
CalibStd=20	20.000	21.364	1.36	6.82	.00193	.000	1
CalibStd=100	100.00	105.81	5.81	5.81	.00972	.000	1
CalibStd=5	5.0000	5.6947	.695	13.9	.00049	.000	1
CalibStd=1	1.0000	1.4146	.415	41.5	.00010	.000	1
CalibStd=100	1000.0	1009.6	9.60	.960	.09303	.000	1
CalibStd=100	10000.	9978.9	-21.1	-.211	.91987	.004	1

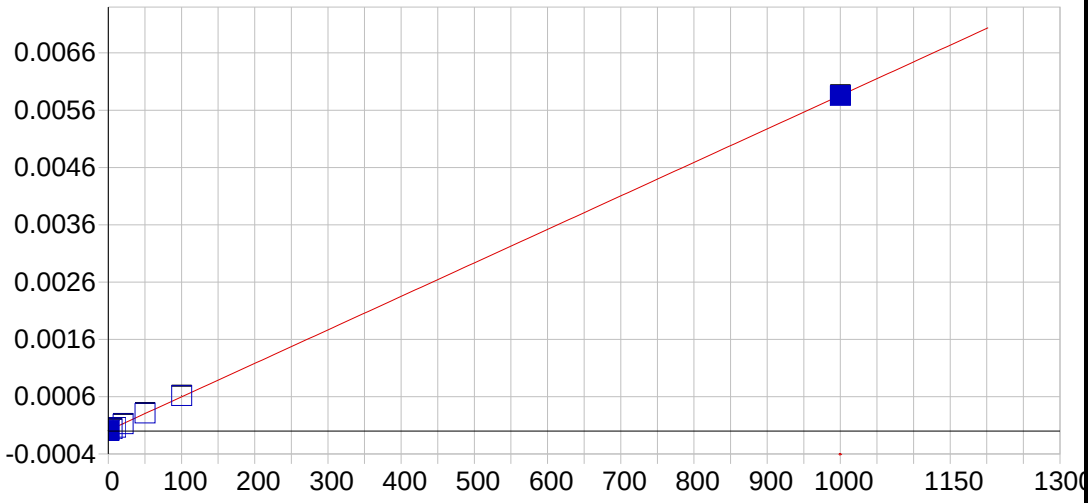


Mn 259.373 {130}

Date of Fit:	11/29/2010 14:44:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000030	Re-Slope:	1.000000
A1 (Gain):	0.000066	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999958	Status:	OK.
Std Error of Est:	0.000284		
Predicted MDL:	0.618200		
Predicted MQL:	2.060668		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.05807	-.058	.000	.00003	.000	1
CalibStd=100	10000.	10267.	267.	2.67	.68134	.002	1
CalibStd-100	100000.	99697.	-303.	-.303	6.5825	.017	1
CalibStd=100	1000.0	1034.4	34.4	3.44	.06867	.000	1

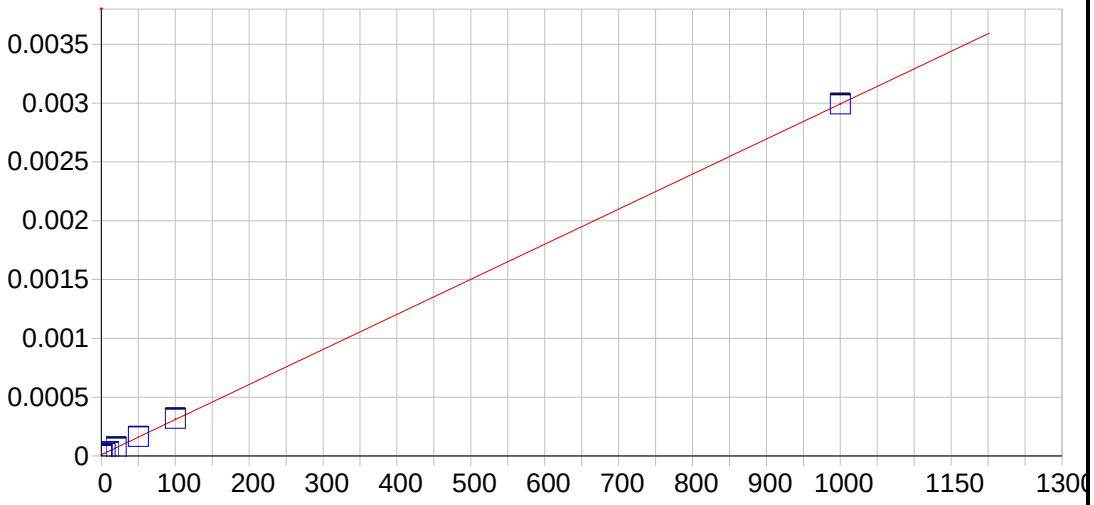


Mo 202.030 {467}

Date of Fit:	11/29/2010 14:33:14	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000012	Re-Slope:	1.000000
A1 (Gain):	0.000006	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999989	Status:	OK.
Std Error of Est:	0.000010		
Predicted MDL:	0.982107		
Predicted MQL:	3.273690		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-1.0419	-1.04	.000	.00001	.000	1
CalibStd=50	50.000	51.600	1.60	3.20	.00031	.000	1
CalibStd=1	1.0000	.37734	-.623	-62.3	.00001	.000	1
CalibStd=20	20.000	19.282	-.718	-3.59	.00012	.000	1
CalibStd=10	10.000	8.6681	-1.33	-13.3	.00006	.000	1
CalibStd=100	100.00	103.36	3.36	3.36	.00062	.000	1
CalibStd=5	5.0000	4.1338	-.866	-17.3	.00004	.000	1
CalibStd=100	1000.0	999.62	-.384	-.038	.00586	.000	1

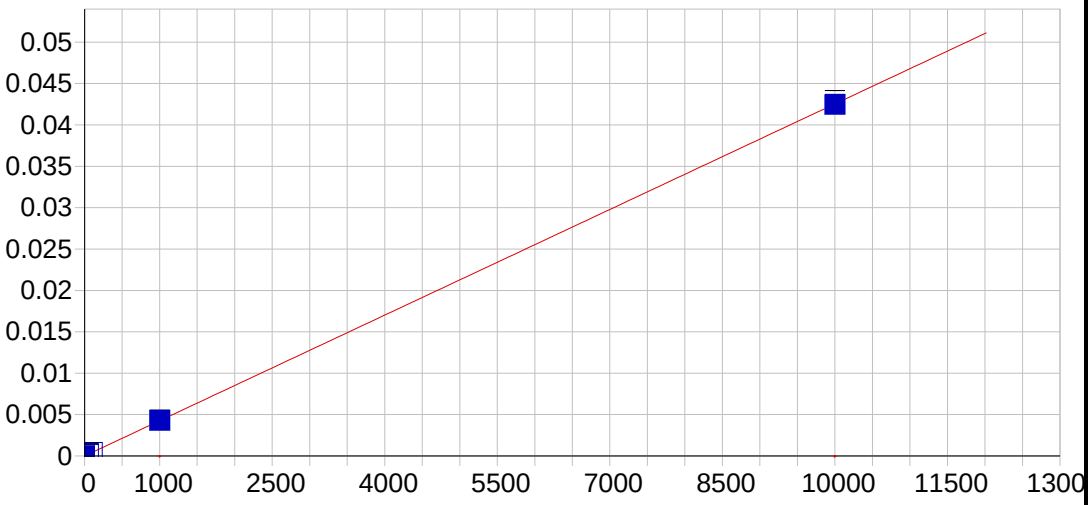


Mo 203.844 {465}

Date of Fit:	11/29/2010 14:33:14	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000011	Re-Slope:	1.000000
A1 (Gain):	0.000003	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999989	Status:	OK.
Std Error of Est:	0.000005		
Predicted MDL:	1.977565		
Predicted MQL:	6.591883		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.93760	-.938	.000	.00001	.000	1
CalibStd=50	50.000	51.404	1.40	2.81	.00016	.000	1
CalibStd=1	1.0000	-.49711	-1.50	-150.	.00001	.000	1
CalibStd=20	20.000	20.503	.503	2.52	.00007	.000	1
CalibStd=10	10.000	8.6029	-1.40	-14.0	.00004	.000	1
CalibStd=100	100.00	103.19	3.19	3.19	.00032	.000	1
CalibStd=5	5.0000	4.1100	-.890	-17.8	.00002	.000	1
CalibStd=100	1000.0	999.62	-.380	-.038	.00299	.000	1

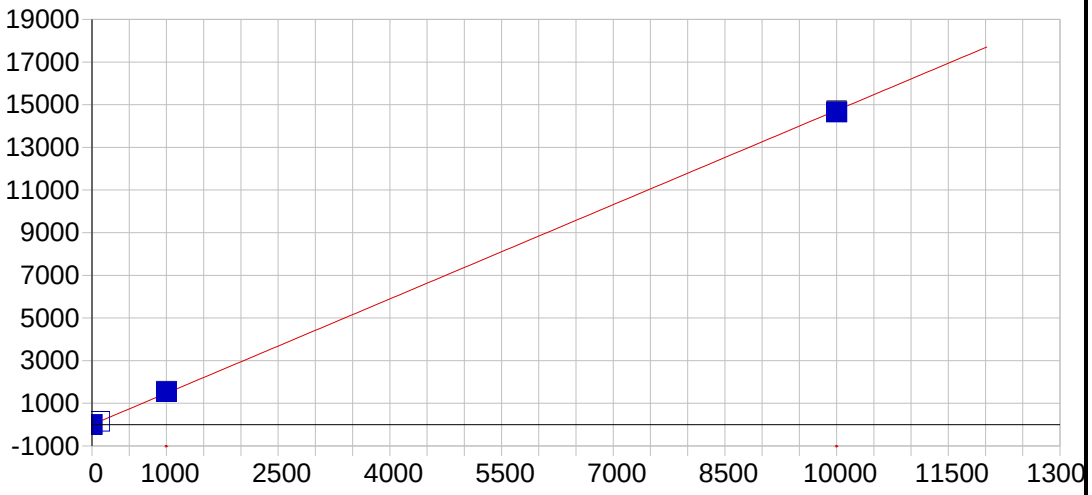


Mo 204.598 {465}

Date of Fit:	11/29/2010 14:38:56	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000004	Re-Slope:	1.000000
A1 (Gain):	0.000004	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999981	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	1.533800		
Predicted MQL:	5.112667		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00529	-.005	.000	.00000	.000	1
CalibStd=100	1000.0	1006.9	6.90	.690	.00429	.000	1
CalibStd=100	10000.	9985.9	-14.1	-.141	.04248	.000	1
CalibStd=50	50.000	52.849	2.85	5.70	.00023	.000	1
CalibStd=100	100.00	104.34	4.34	4.34	.00045	.000	1

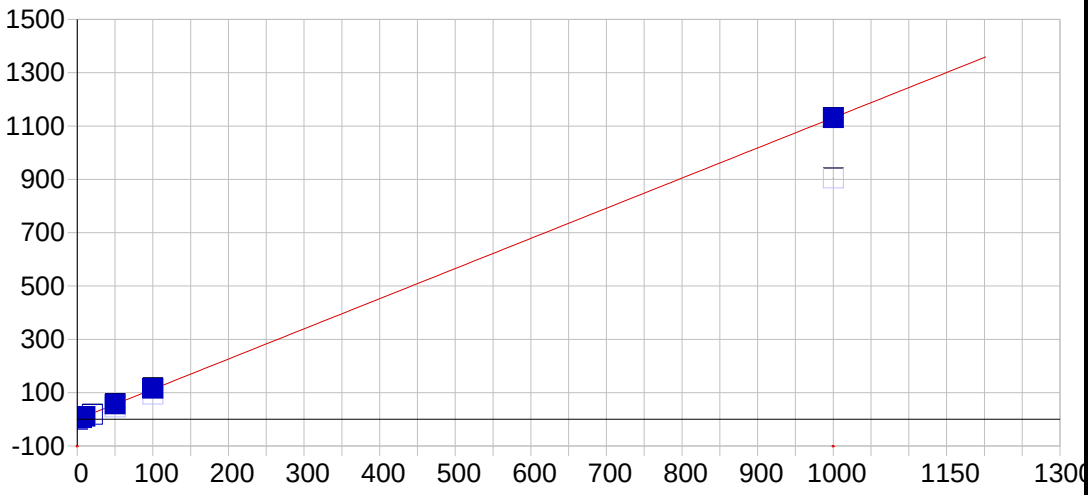


Ni 221.647 {452}

Date of Fit:	11/29/2010 14:38:56	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.318728	Re-Slope:	1.000000
A1 (Gain):	1.473390	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999865	Status:	OK.
Std Error of Est:	1.139195		
Predicted MDL:	0.574955		
Predicted MQL:	1.916516		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.01164	-.012	.000	.30158	.702	1
CalibStd=100	10000.	9946.3	-53.7	-.537	14655.	30.1	1
CalibStd=100	100.00	107.56	7.56	7.56	158.80	.467	1
CalibStd=100	1000.0	1046.2	46.2	4.62	1541.7	5.35	1

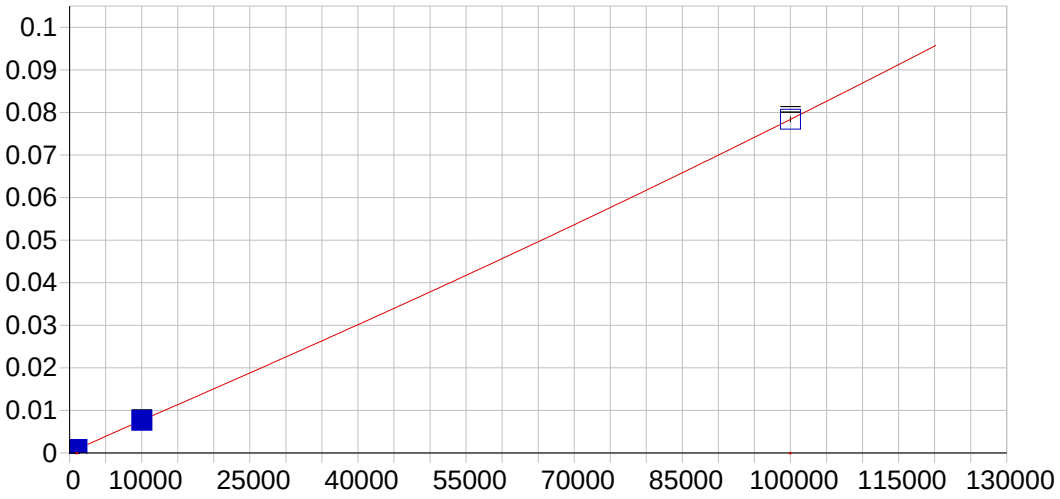


Ni 231.604 {445}

Date of Fit:	11/29/2010 14:33:14	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-0.148209	Re-Slope:	1.000000
A1 (Gain):	1.131184	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999976	Status:	OK.
Std Error of Est:	2.527325		
Predicted MDL:	0.625252		
Predicted MQL:	2.084174		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.27993	-.280	.000	-.46486	.511	1
CalibStd=50	50.000	50.864	.864	1.73	46.076	.210	1
CalibStd=20	20.000	16.123	-3.88	-19.4	18.090	.373	1
CalibStd=10	10.000	10.325	.325	3.25	9.2689	.296	1
CalibStd=100	100.00	102.98	2.98	2.98	93.717	.761	1
CalibStd=5	5.0000	5.2376	.238	4.75	4.6453	.349	1
CalibStd=100	1000.0	999.75	-.249	-.025	904.62	.647	1

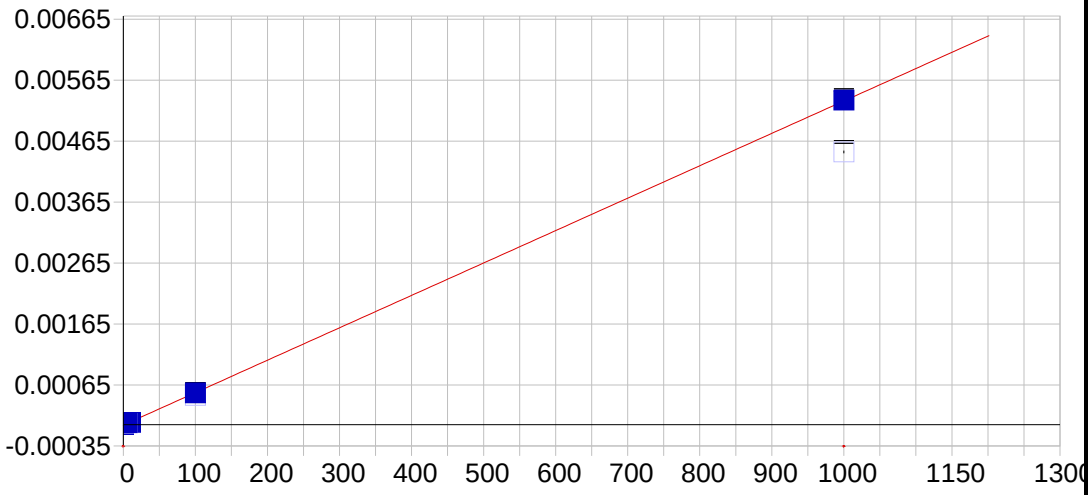


Pb 216.999 {455}

Date of Fit:	11/29/2010 14:44:49	Type of Fit:	Full Fit	Weighting:	None

A0 (Offset):	0.000012	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	0.960000		
Correlation:	1.000000	Status:	Warning Positive Curvature
Std Error of Est:	0.000000		
Predicted MDL:	8.945351		
Predicted MQL:	29.817838		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00001	.000	1
CalibStd=100	1000.0	1004.6	4.60	.460	.00084	.000	1
CalibStd=100	10000.	9999.4	-.597	-.006	.00766	.000	1
CalibStd-100	100000.	100000.	.006	.000	.07838	.001	1

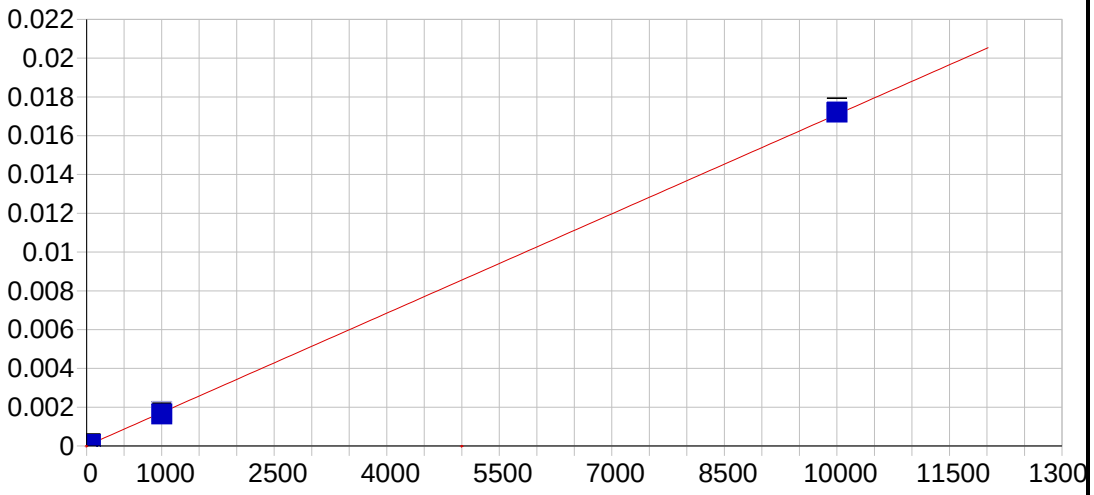


Pb 220.353 {453}

Date of Fit:	11/29/2010 14:33:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000007	Re-Slope:	1.000000
A1 (Gain):	0.000005	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999616	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	2.141912		
Predicted MQL:	7.139708		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00005	.000	.000	-.00001	.000	1
CalibStd=10	10.000	8.0031	-2.00	-20.0	.00003	.000	1
CalibStd=100	100.00	98.808	-1.19	-1.19	.00048	.000	1
CalibStd=5	5.0000	5.9943	.994	19.9	.00002	.000	1
CalibStd=100	1000.0	1002.4	2.40	.240	.00447	.000	1

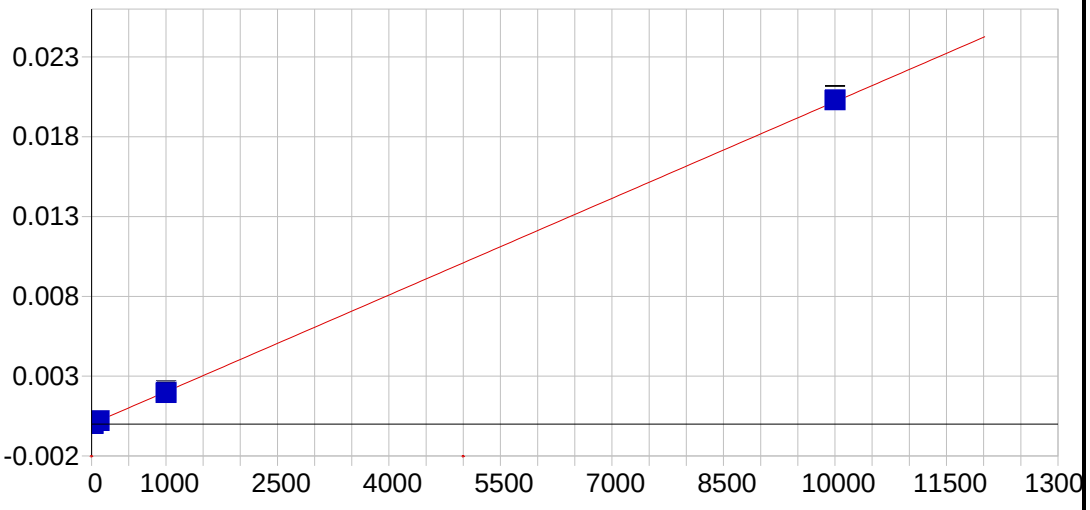


Sb 206.833 {463}

Date of Fit:	11/29/2010 14:38:57	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000014	Re-Slope:	1.000000
A1 (Gain):	0.000002	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999373	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	4.151887		
Predicted MQL:	13.839624		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.01215	.012	.000	.00001	.000	1
CalibStd=100	1000.0	955.30	-44.7	-4.47	.00176	.000	1
CalibStd=10	10.000	-.12909	-10.1	-101.	.00001	.000	1
CalibStd=50	50.000	41.782	-8.22	-16.4	.00009	.000	1
CalibStd=100	10000.	10067.	67.4	.674	.01721	.000	1

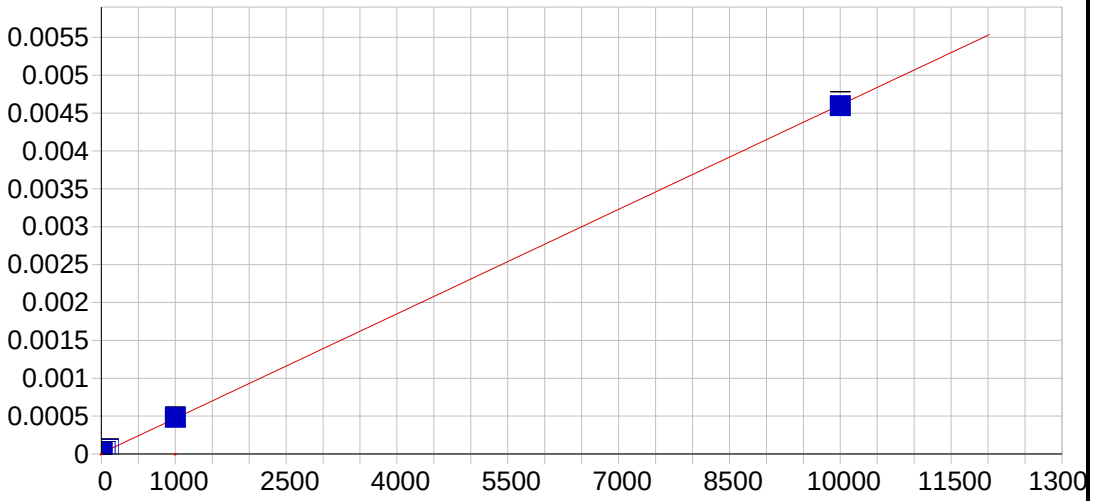


Sb 217.581 {455}

Date of Fit:	11/29/2010 14:38:57	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000005	Re-Slope:	1.000000
A1 (Gain):	0.000002	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999479	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	5.174056		
Predicted MQL:	17.246853		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.01296	.013	.000	.00000	.000	1
CalibStd=100	1000.0	969.08	-30.9	-3.09	.00206	.000	1
CalibStd=20	20.000	10.092	-9.91	-49.5	.00003	.000	1
CalibStd=10	10.000	2.6749	-7.33	-73.3	.00001	.000	1
CalibStd=100	100.00	95.731	-4.27	-4.27	.00021	.000	1
CalibStd=100	10000.	10055.	55.0	.550	.02030	.000	1

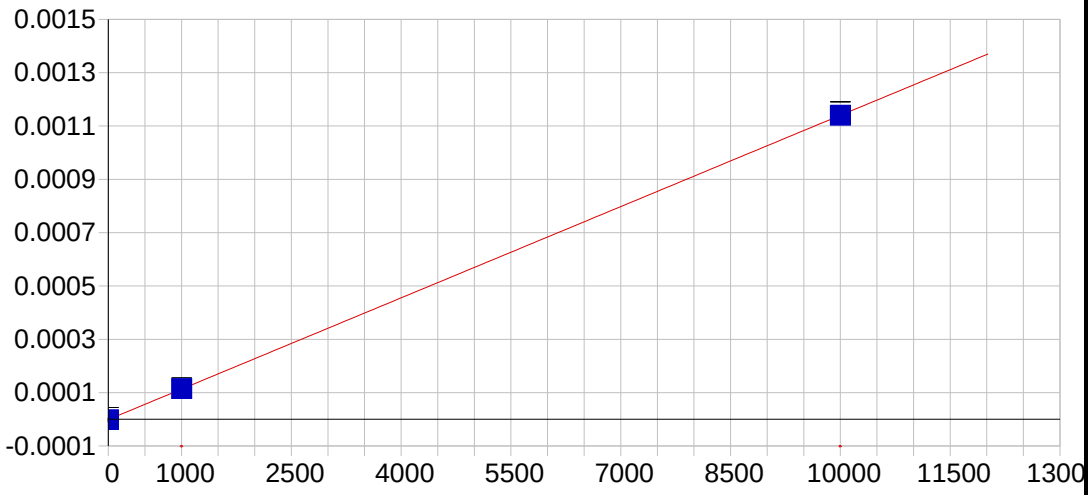


Se 196.090 {472}

Date of Fit:	11/30/2010 12:52:25	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000010	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999874	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	13.937161		
Predicted MQL:	46.457203		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00286	.003	.000	.00001	.000	1
CalibStd=50	50.000	46.971	-3.03	-6.06	.00003	.000	1
CalibStd=100	1000.0	1024.8	24.8	2.48	.00048	.000	1
CalibStd=10	10.000	6.6285	-3.37	-33.7	.00001	.000	1
CalibStd=100	100.00	108.96	8.96	8.96	.00006	.000	1
CalibStd=100	10000.	9972.6	-27.4	-.274	.00459	.000	1

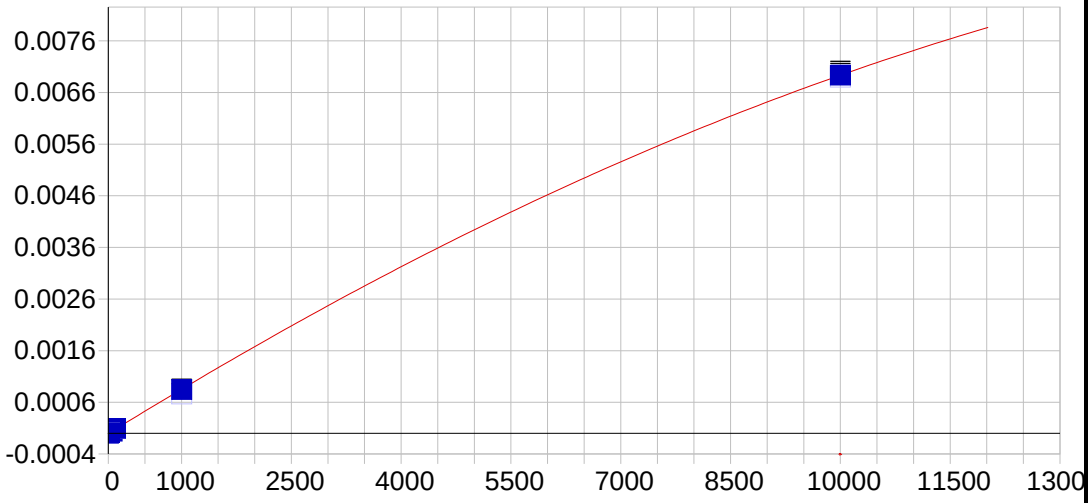


Se 206.279 {463}

Date of Fit:	11/30/2010 12:47:49	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-0.000001	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999998	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	57.647198		
Predicted MQL:	192.157326		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-11.259	-11.3	.000	.00000	.000	1
CalibStd=100	1000.0	1012.5	12.5	1.25	.00011	.000	1
CalibStd=100	10000.	9998.7	-1.25	-.013	.00114	.000	1

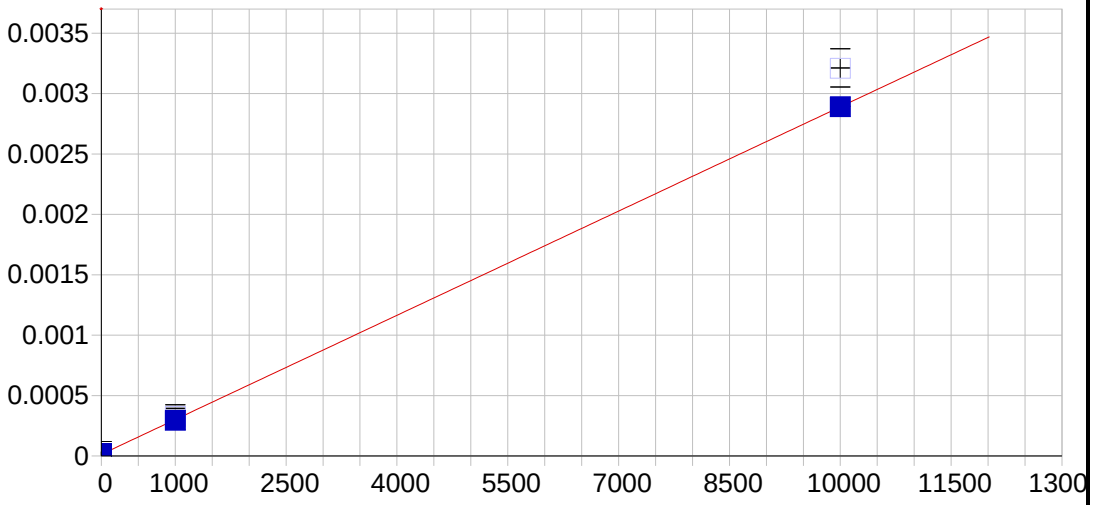


Tl 190.856 {477}

Date of Fit:	11/30/2010 13:12:13	Type of Fit:	Full Fit	Weighting:	1/Conc

A0 (Offset):	-0.000001	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	1.010000		
Correlation:	0.999898	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	7.504357		
Predicted MQL:	25.014524		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00152	.002	.000	.00000	.000	1
CalibStd=50	50.000	48.502	-1.50	-3.00	.00004	.000	1
CalibStd=100	1000.0	993.06	-6.94	-.694	.00076	.000	1
CalibStd=20	20.000	19.459	-.541	-2.71	.00002	.000	1
CalibStd=100	100.00	110.44	10.4	10.4	.00008	.000	1
CalibStd=10	10.000	8.1965	-1.80	-18.0	.00001	.000	1
CalibStd=100	10000.	10001.	.972	.010	.00689	.000	1

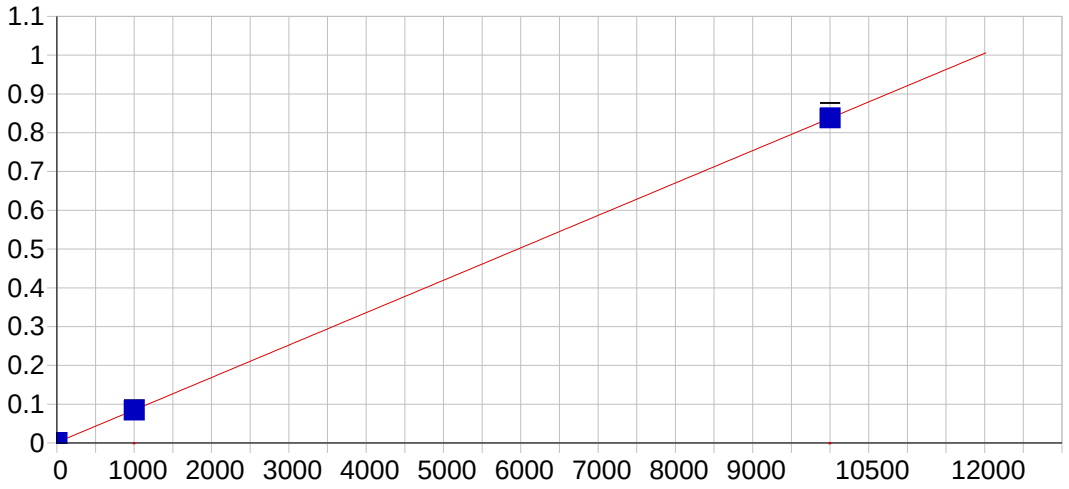


Tl 276.787 {122}

Date of Fit:	11/29/2010 14:38:57	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000014	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999993	Status:	OK.
Std Error of Est:	0.000010		
Predicted MDL:	156.463453		
Predicted MQL:	521.544842		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	22.153	22.2	.000	.00002	.000	1
CalibStd=100	1000.0	975.39	-24.6	-2.46	.00033	.000	1
CalibStd=100	10000.	10002.	2.46	.025	.00321	.000	1

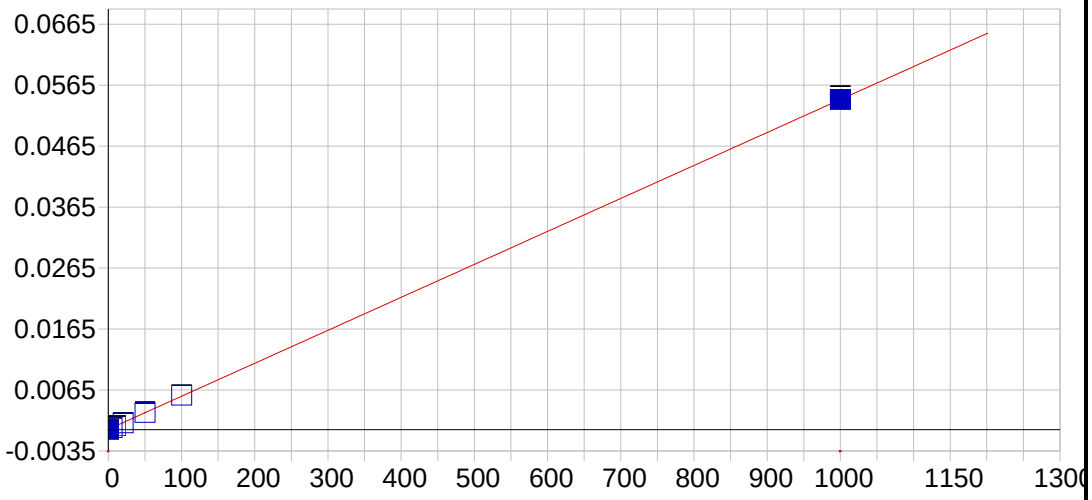


V 290.882 {116}

Date of Fit:	11/29/2010 14:38:57	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001482	Re-Slope:	1.000000
A1 (Gain):	0.000084	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999997	Status:	OK.
Std Error of Est:	0.000034		
Predicted MDL:	0.854991		
Predicted MQL:	2.849969		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00638	.006	.000	.00148	.000	1
CalibStd=100	1000.0	992.92	-7.08	-.708	.08450	.000	1
CalibStd=100	10000.	10007.	7.08	.071	.83822	.013	1

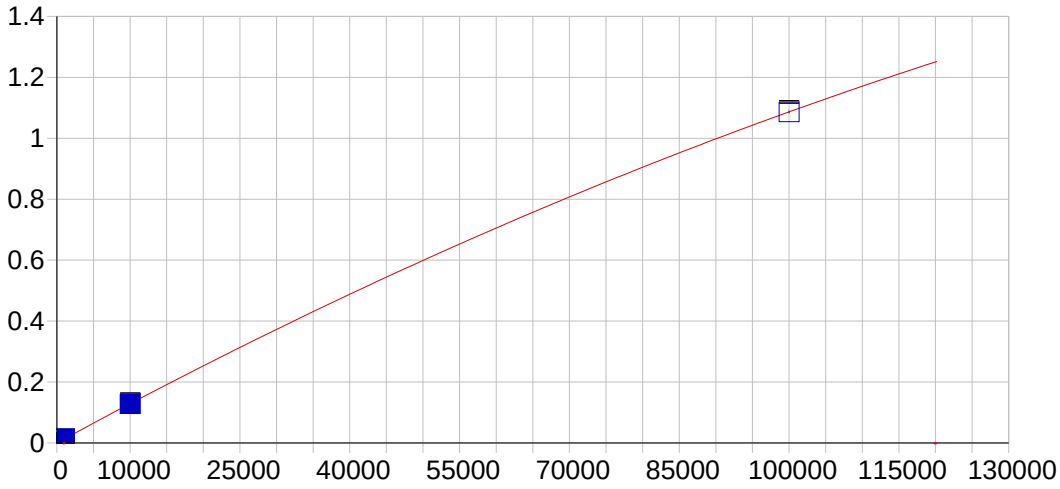


V 292.402 {115}

Date of Fit:	11/30/2010 12:34:27	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000066	Re-Slope:	1.000000
A1 (Gain):	0.000054	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999994	Status:	OK.
Std Error of Est:	0.000078		
Predicted MDL:	1.321853		
Predicted MQL:	4.406176		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.85881	-.859	.000	.00002	.000	1
CalibStd=50	50.000	50.324	.324	.647	.00279	.000	1
CalibStd=100	1000.0	999.73	-.275	-.027	.05414	.001	1
CalibStd=20	20.000	19.181	-.819	-4.10	.00110	.000	1
CalibStd=5	5.0000	4.2090	-.791	-15.8	.00029	.000	1
CalibStd=10	10.000	9.5923	-.408	-4.08	.00058	.000	1
CalibStd=100	100.00	102.83	2.83	2.83	.00563	.000	1

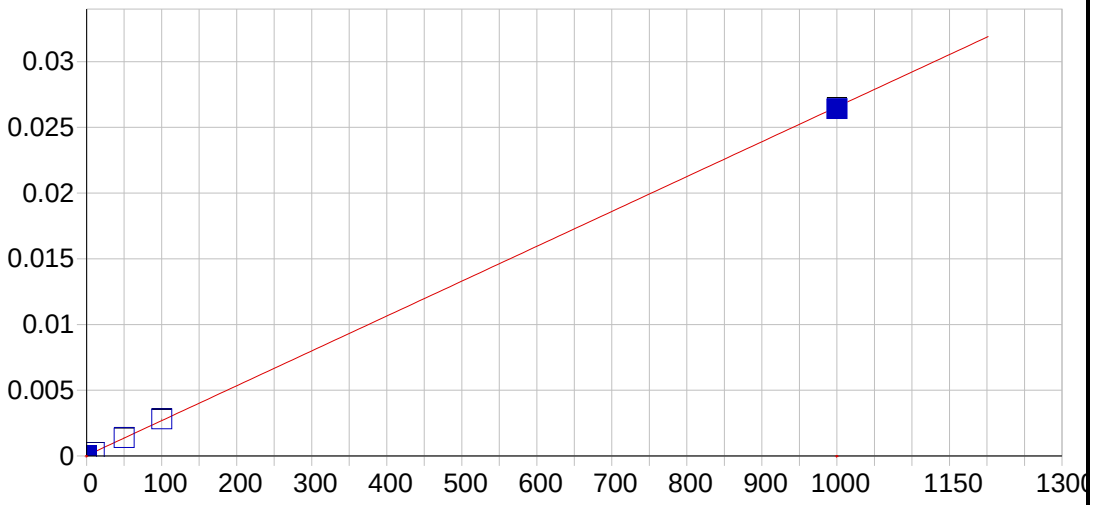


Zn 206.200 {463}

Date of Fit:	11/29/2010 14:44:49	Type of Fit:	Full Fit	Weighting:	None

A0 (Offset):	0.000131	Re-Slope:	1.000000
A1 (Gain):	0.000013	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.455110		
Predicted MQL:	1.517034		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
CalibStd=100	10000.	9998.8	-1.15	-.012	.12878	.001	1
CalibStd-100	100000.	100000.	.015	.000	1.0867	.004	1
Blank	.00000	.00000	.000	.000	.00001	.000	1
CalibStd=100	1000.0	1010.2	10.2	1.02	.01333	.000	1

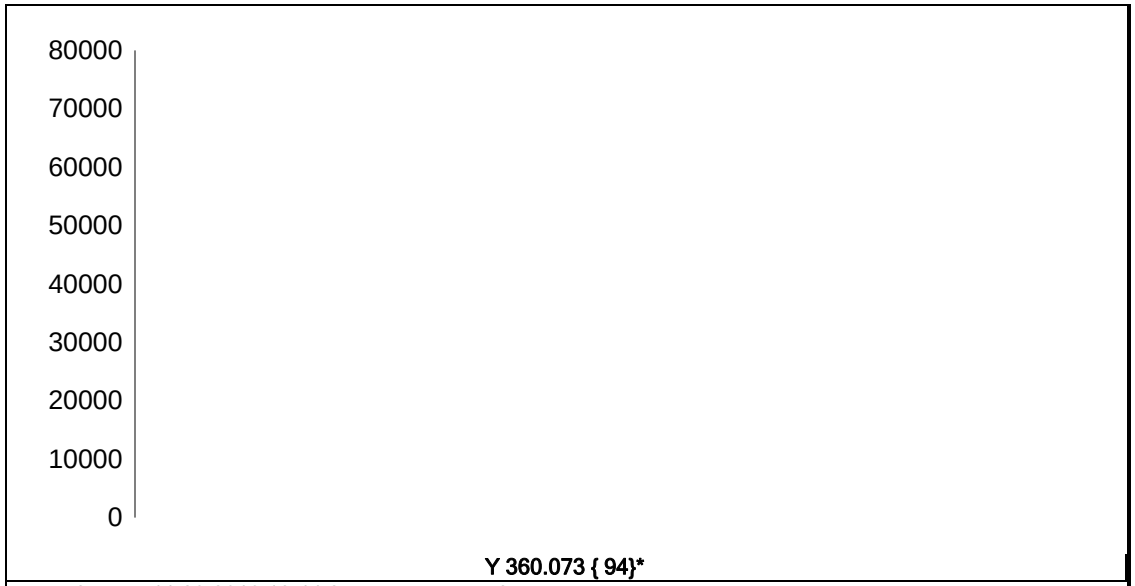


Zn 213.856 {458}

Date of Fit:	11/29/2010 14:33:15	Type of Fit:	Linear	Weighting:	1/Conc

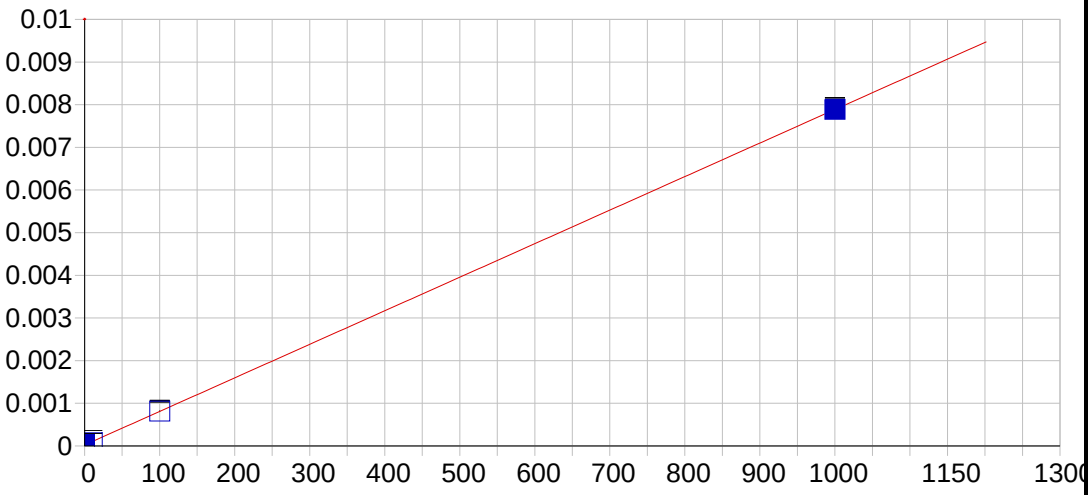
A0 (Offset):	0.000035	Re-Slope:	1.000000
A1 (Gain):	0.000027	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999888	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	0.257457		
Predicted MQL:	0.858191		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00028	.000	.000	.00004	.000	1
CalibStd=100	100.00	104.49	4.49	4.49	.00281	.000	1
CalibStd=50	50.000	51.023	1.02	2.05	.00139	.000	1
CalibStd=10	10.000	9.6770	-.323	-3.23	.00029	.000	1
CalibStd=100	1000.0	994.81	-5.19	-.519	.02643	.000	1



Date of Fit:	11/29/2010 13:44:25	Type of Fit:	Linear	Weighting:	None	
A0 (Offset):	0.000000		Re-Slope:	1.000000		
A1 (Gain):	0.000000		Y-int:	0.000000		
A2 (Curvature):	0.000000					
n (Exponent):	1.000000					
Correlation:	0.000000		Status:	Warning	Zero Gain	
Std Error of Est:	0.000000					
Predicted MDL:	n/a					
Predicted MQL:	n/a					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	71799.	2810.	1

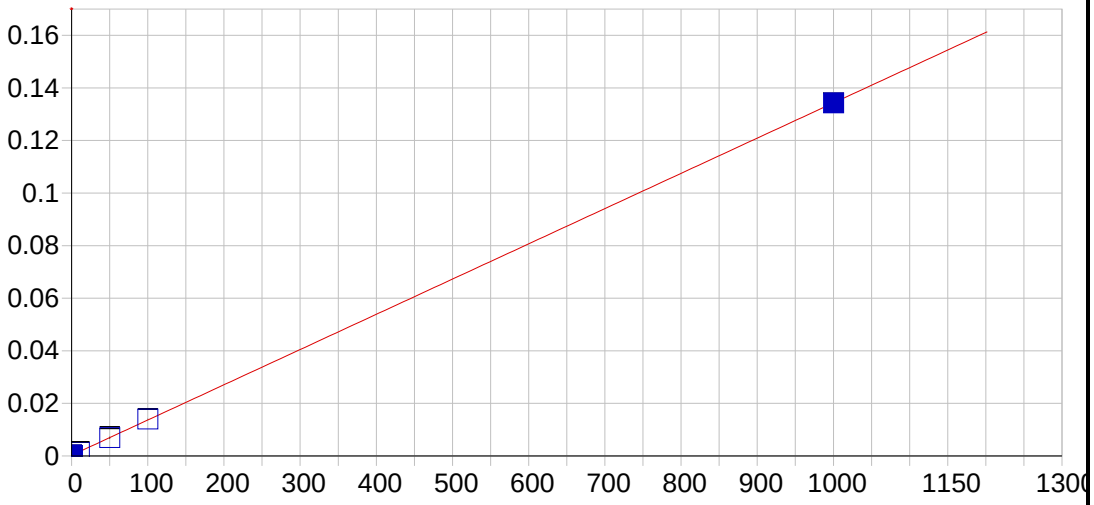


B 249.773 {135}

Date of Fit:	11/29/2010 14:33:15	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000023	Re-Slope:	1.000000
A1 (Gain):	0.000008	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999996	Status:	OK.
Std Error of Est:	0.000014		
Predicted MDL:	4.511657		
Predicted MQL:	15.038857		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	1.4325	1.43	.000	.00003	.000	1
CalibStd=10	10.000	8.0736	-1.93	-19.3	.00009	.000	1
CalibStd=100	100.00	100.53	.527	.527	.00081	.000	1
CalibStd=100	1000.0	999.97	-.033	-.003	.00789	.000	1

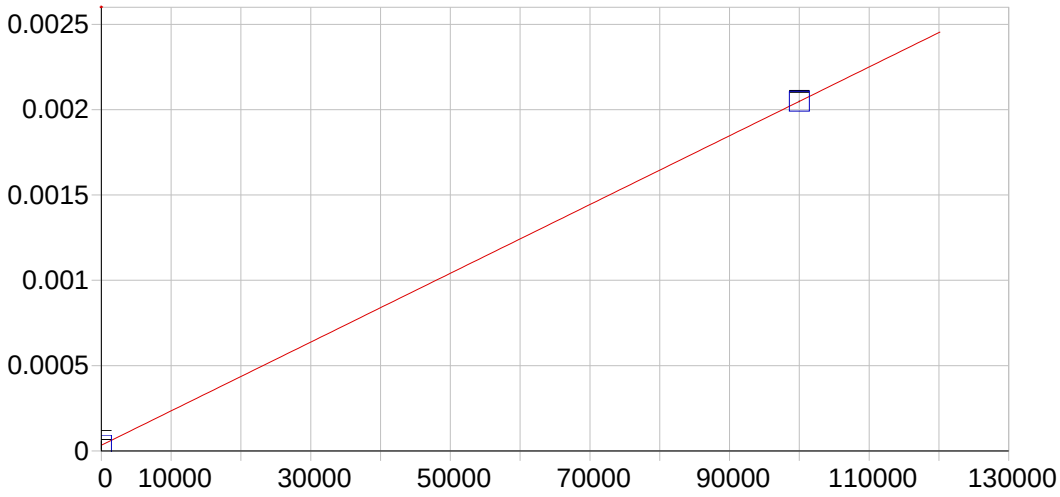


Li 670.784 { 50}

Date of Fit:	11/29/2010 14:33:15	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000268	Re-Slope:	1.000000
A1 (Gain):	0.000134	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999992	Status:	OK.
Std Error of Est:	0.000230		
Predicted MDL:	1.989618		
Predicted MQL:	6.632061		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.84122	.841	.000	.00038	.000	1
CalibStd=10	10.000	8.9190	-1.08	-10.8	.00146	.000	1
CalibStd=50	50.000	49.634	-.366	-.733	.00692	.000	1
CalibStd=100	100.00	102.59	2.59	2.59	.01402	.000	1
CalibStd=100	1000.0	999.77	-.228	-.023	.13428	.000	1
CalibStd=1	1.0000	-.75262	-1.75	-175.	.00017	.000	1

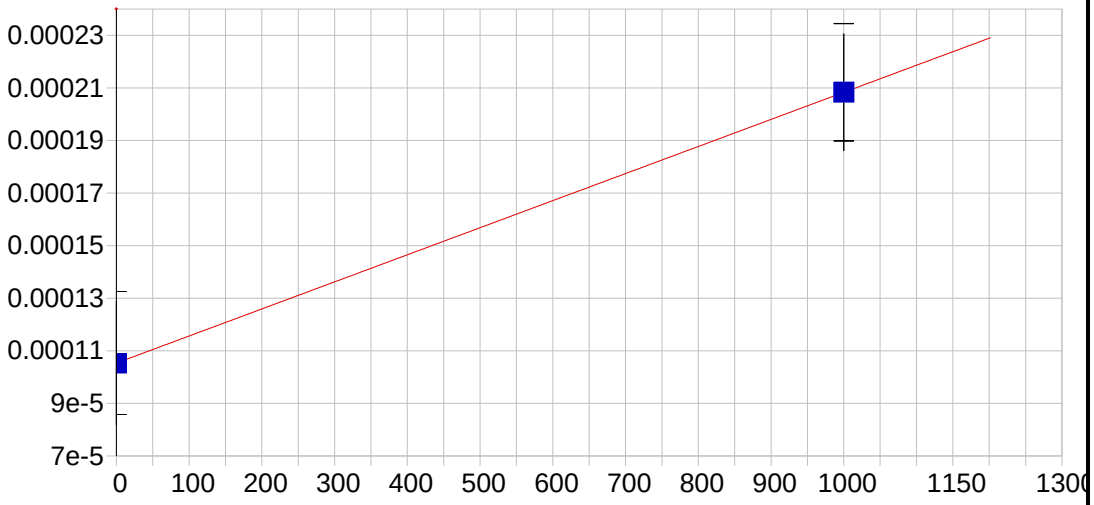


Na 330.298 {102}

Date of Fit:	11/29/2010 14:50:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000033	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	3215.590228		
Predicted MQL:	10718.63409		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00003	.000	1
CalibStd=100	100000.	100000.	.000	.000	.00205	.000	1

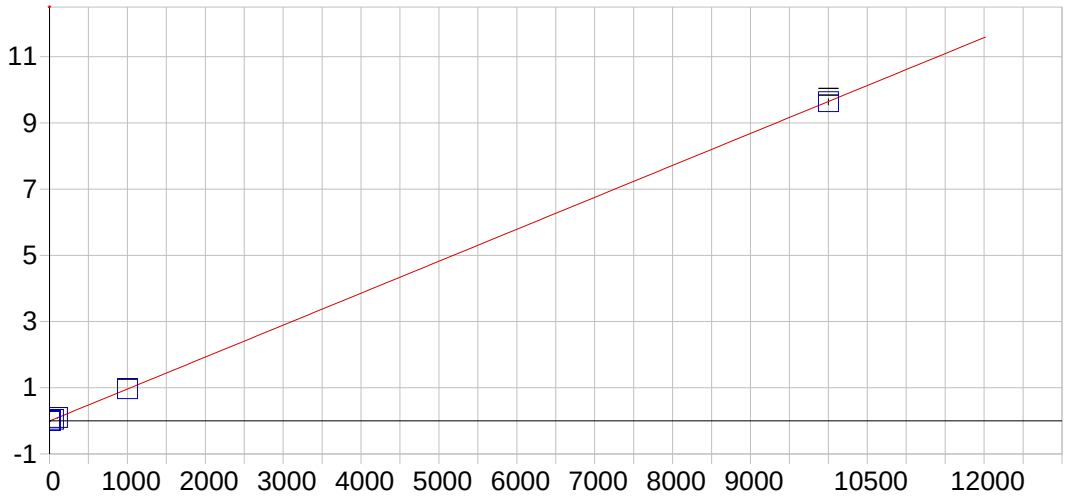


Si 251.611 {134}

Date of Fit:	11/29/2010 14:33:15	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000105	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	359.657868		
Predicted MQL:	1198.859562		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00011	.000	1
CalibStd=100	1000.0	1000.0	.000	.000	.00021	.000	1

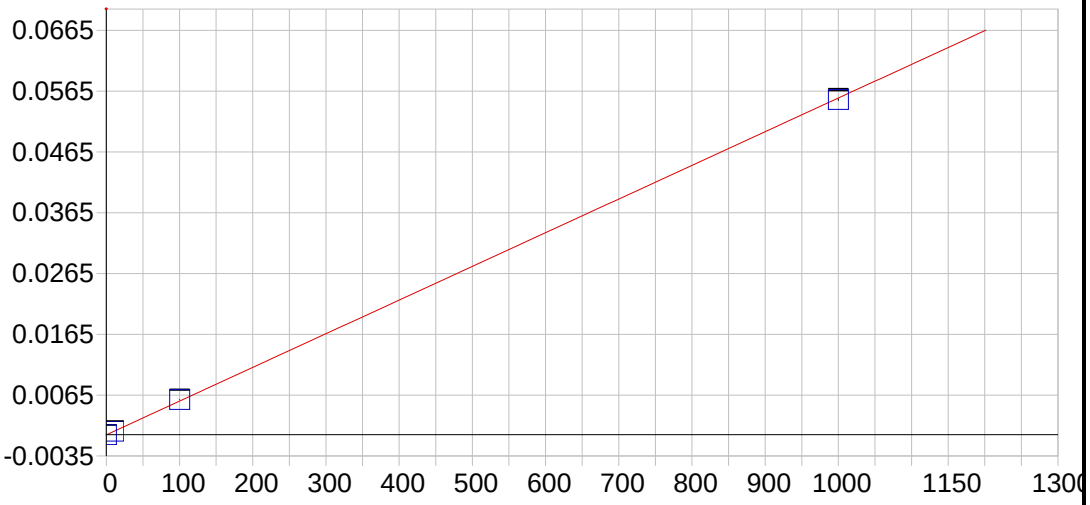


Sr 407.771 { 83}

Date of Fit:	11/29/2010 14:38:57	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.003909	Re-Slope:	1.000000
A1 (Gain):	0.000965	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999989	Status:	OK.
Std Error of Est:	0.000018		
Predicted MDL:	0.114919		
Predicted MQL:	0.383064		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00020	.000	.000	-.00391	.000	1
CalibStd=1	1.0000	1.0735	.073	7.35	-.00287	.000	1
CalibStd=5	5.0000	5.0967	.097	1.93	.00101	.000	1
CalibStd=10	10.000	10.390	.390	3.90	.00612	.000	1
CalibStd=50	50.000	51.230	1.23	2.46	.04553	.000	1
CalibStd=100	100.00	104.13	4.13	4.13	.09658	.000	1
CalibStd=100	1000.0	1004.4	4.45	.445	.96548	.002	1
CalibStd=100	10000.	9989.6	-10.4	-.104	9.6371	.102	1



Ti 334.941 {101}

Date of Fit:	11/29/2010 14:33:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000015	Re-Slope:	1.000000
A1 (Gain):	0.000055	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999901	Status:	OK.
Std Error of Est:	0.000004		
Predicted MDL:	1.186034		
Predicted MQL:	3.953447		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00081	-.001	.000	-.00002	.000	1
CalibStd=10	10.000	10.430	.430	4.30	.00056	.000	1
CalibStd=100	100.00	104.24	4.24	4.24	.00576	.000	1
CalibStd=100	1000.0	995.33	-4.67	-.467	.05511	.000	1

Sample Name: Blank Acquired: 11/29/2010 13:38:59 Type: Cal
Method: DOD Calibration 1(v1282) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	Al3092	Al3961	As1890	As1937	Ba4554	Ba4934	Be2348	Be3130	Ca3179	Ca3933
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.001**	**.000**	**.000**	**.000**	**.000**	**.024**	**.000**	**.000**	**.007**	**.002**
Stddev	.000	.000	.000	.00	.000	.00	.000	.001	.000	.000	.000	.001
%RSD	14.1	42.2	3.91	758.	187.	6170.	50.2	3.15	77.2	103.	.267	52.8

Elem	Ca3968	Cd2265	Cd2288	Co2286	Co2388	Cr2677	Cr2835	Cu2247	Fe2343	Fe2395	Fe2599	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.002**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**33.9**	**.000**
Stddev	.001	.00	.000	.00	.00	.000	.000	.000	.000	.000	9.5	.000
%RSD	60.0	244.	62.0	211.	226.	29.8	85.0	9.23	16.0	23.5	28.0	19.4

Elem	Mg2795	Mg2802	Mn2576	Mn2593	Mo2020	Mo2045	Ni2216	Ni2316	Pb2169	Pb2203	Sb2068	Sb2175
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.302**	**-.465**	**.000**	**.000**	**.000**	**.000**
Stddev	.000	.000	.00	.000	.000	.000	.702	.511	.000	.00	.000	.000
%RSD	32.7	53.3	128.	122.	113.	51.4	233.	110.	61.0	23.8	37.5	105.

Elem	Se1960	Se2062	Tl1908	V_2908	V_2924	Zn2062	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.000**	**.001**	**.000**	**.000**	**.000**
Stddev	.000	.00	.00	.000	.000	.000	.000
%RSD	2.21	394.	388.	6.86	194.	48.5	21.0

Sample Name: Blank Acquired: 11/29/2010 13:38:59 Type: Cal
Method: DOD Calibration 1(v1282) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Units	Cts/S
Avg	**71799.**
Stddev	2812.
%RSD	3.9165

Sample Name: CalibStd=0.25 Acquired: 11/29/2010 13:44:28 Type: Cal
Method: DOD Calibration 1(v1282) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Be3130	Cd2265
Units	Cts/S	Cts/S
Avg	**.000**	**.000**
Stddev	.000	.000
%RSD	27.0	73.7

Int. Std.	Y_3600
Units	Cts/S
Avg	**70758.**
Stddev	1090.
%RSD	1.5399

Sample Name: CalibStd=0.5 Acquired: 11/29/2010 13:49:58 Type: Cal
Method: DOD Calibration 1(v1282) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Be3130	Cd2265
Units	Cts/S	Cts/S
Avg	**.000**	**.000**
Stddev	.000	.000
%RSD	7.03	19.7

Int. Std.	Y_3600
Units	Cts/S
Avg	**71430.**
Stddev	834.
%RSD	1.1683

Sample Name: CalibStd=1 Acquired: 11/29/2010 13:55:28 Type: Cal
Method: DOD Calibration 1(v1282) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Ba4554	Cd2265	Co2286	Cr2677	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.001**	**.000**	**.000**	**.000**	**.000**	**.000**
Stddev	.000	.000	.000	.000	.000	.000	.000
%RSD	21.7	17.8	14.3	26.2	26.0	13.5	14.2

Int. Std.	Y_3600
Units	Cts/S
Avg	**71437.**
Stddev	416.
%RSD	.58218

Sample Name: CalibStd=5 Acquired: 11/29/2010 14:00:58 Type: Cal
Method: DOD Calibration 1(v1282) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	Ba4554	Be3130	Cd2265	Co2286	Cr2677	Cu2247	Mn2576	Mo2020	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.001**	**.000**	**.002**	**.004**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**4.65**	**.000**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.35	.000
%RSD	6.35	39.9	4.00	3.80	1.25	9.68	2.97	8.37	3.72	9.03	7.50	49.7

Elem	V_2924
Units	Cts/S
Avg	**.000**
Stddev	.000
%RSD	9.93

Int. Std.	Y_3600
Units	Cts/S
Avg	**71821.**
Stddev	1042.
%RSD	1.4507

Sample Name: CalibStd=10 Acquired: 11/29/2010 14:06:28 Type: Cal
Method: DOD Calibration 1(v1282) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Cd2265	Co2286	Cr2677	Cu2247	Mg2795	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.002**	**.000**	**.000**	**.004**	**.007**	**.001**	**.000**	**.000**	**.000**	**.002**	**.001**	**.000**
Stddev	.000	.000	.00	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	1.49	22.1	504.	2.66	.472	2.59	3.03	2.84	2.27	1.46	4.93	2.69

Elem	Ni2316	Pb2203	Sb2068	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**9.27**	**.000**	**.000**	**.000**	**.000**	**.000**	**.001**	**.000**
Stddev	.30	.000	.000	.000	.000	.000	.000	.000
%RSD	3.19	14.2	12.2	46.9	18.0	77.3	10.2	1.54

Int. Std.	Y_3600
Units	Cts/S
Avg	**71293.**
Stddev	449.
%RSD	.62917

Sample Name: CalibStd=20 Acquired: 11/29/2010 14:11:58 Type: Cal
Method: DOD Calibration 1(v1282) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al1670	Ba4554	Cr2677	Fe2599	Mg2795	Mn2576	Mo2020	Ni2316	Sb2175	Tl1908	V_2924
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.007**	**.001**	**10.7**	**.004**	**.002**	**.000**	**18.1**	**.000**	**.000**	**.001**
Stddev	.000	.000	.000	1.0	.000	.000	.000	.4	.000	.000	.000
%RSD	13.8	1.37	2.33	9.65	1.17	3.46	3.97	2.06	40.8	19.0	4.45

Int. Std.	Y_3600
Units	Cts/S
Avg	**71220.**
Stddev	1277.
%RSD	1.7932

Sample Name: CalibStd=50 Acquired: 11/29/2010 14:17:27 Type: Cal
Method: DOD Calibration 1(v1282) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al1670	As1937	Ba4554	Ca3933	Cd2265	Co2286	Cr2677	Cr2835	Cu2247	Fe2599	Mg2795	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.018**	**.024**	**.003**	**.001**	**.003**	**.001**	**.001**	**23.6**	**.009**	**.005**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	1.2	.000	.000
%RSD	8.12	3.53	.409	.692	.802	.580	1.44	3.56	.971	5.08	.546	.799

Elem	Mo2020	Mo2045	Ni2316	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**46.1**	**.000**	**.000**	**.000**	**.003**	**.001**
Stddev	.000	.000	.2	.000	.000	.000	.000	.000
%RSD	1.19	.714	.456	7.59	10.0	14.4	4.24	1.16

Int. Std.	Y_3600
Units	Cts/S
Avg	**70679.**
Stddev	720.
%RSD	1.0192

Sample Name: CalibStd=100 Acquired: 11/29/2010 14:22:53 Type: Cal
Method: DOD Calibration 1(v1282) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	As1890	As1937	Ba4554	Be2348	Be3130	Ca3968	Cd2265	Cd2288	Co2286	Cr2677	Cr2835
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.017**	**.000**	**.000**	**.036**	**.005**	**.071**	**.064**	**.006**	**.004**	**.002**	**.005**	**.001**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	.423	3.22	9.68	.542	.716	.609	.546	.387	.345	.693	1.11	3.75

Elem	Cu2247	Fe2599	Mn2576	Mo2020	Mo2045	Ni2216	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.001**	**37.8**	**.010**	**.001**	**.000**	**159.**	**93.7**	**.000**	**.000**	**.000**	**.000**	**.006**
Stddev	.000	3.4	.000	.000	.000	.	.8	.000	.000	.000	.000	.000
%RSD	1.63	9.08	.430	.884	2.02	.294	.812	1.32	1.90	9.27	.943	.177

Elem	Zn2138
Units	Cts/S
Avg	**.003**
Stddev	.000
%RSD	.539

Int. Std.	Y_3600
Units	Cts/S
Avg	**70429.**
Stddev	250.
%RSD	.35472

Sample Name: CalibStd=1000 Acquired: 11/29/2010 14:28:15 Type: Cal
Method: DOD Calibration 1(v1282) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al1670	Al3092	Al3961	As1890	As1937	Ba4934	Be2348	Be3130	Ca3179	Ca3933	Ca3968	Cd2265
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.001**	**.005**	**.008**	**.000**	**.000**	**.438**	**.051**	**.703**	**.018**	**.388**	**.588**	**.053**
Stddev	.000	.000	.000	.000	.000	.001	.000	.001	.000	.000	.001	.000
%RSD	.446	.837	2.15	1.38	.992	.114	.196	.155	.421	.047	.216	.317

Elem	Cd2288	Co2286	Co2388	Cr2677	Cr2835	Cu2247	Fe2343	Fe2395	Fe2599	Mg2790	Mg2802	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.041**	**.019**	**.005**	**.048**	**.014**	**.011**	**.001**	**.005**	**340.**	**.001**	**.157**	**.093**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	2.	.000	.000	.000
%RSD	.259	.023	.392	.288	.308	.141	3.20	.093	.656	2.53	.142	.406

Elem	Mn2593	Mo2020	Mo2045	Ni2216	Ni2316	Pb2169	Pb2203	Sb2068	Sb2175	Se1960	Se2062	Tl1908
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.069**	**.006**	**.004**	**1540.**	**905.**	**.001**	**.004**	**.002**	**.002**	**.000**	**.000**	**.001**
Stddev	.000	.000	.000	5.	1.	.000	.000	.000	.000	.000	.000	.000
%RSD	.373	.109	.285	.347	.072	.780	.474	.760	.754	.716	1.59	.682

Elem	V_2908	V_2924	Zn2062	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.085**	**.054**	**.013**	**.026**
Stddev	.000	.001	.000	.000
%RSD	.276	1.01	.231	.221

Sample Name: CalibStd=1000 Acquired: 11/29/2010 14:28:15 Type: Cal
Method: DOD Calibration 1(v1282) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Units	Cts/S
Avg	**71597.**
Stddev	115.
%RSD	.16026

Sample Name: CalibStd=10000 Acquired: 11/29/2010 14:33:18 Type: Cal
Method: DOD Calibration 1(v1282) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al3092	Al3961	As1890	Ba4934	Ca3179	Ca3968	Co2388	Cr2835	Cu2247	Fe2343	Fe2395
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.040**	**.077**	**.003**	**4.08**	**.124**	**5.83**	**.052**	**.137**	**.103**	**.014**	**.050**
Stddev	.000	.000	.000	.10	.001	.03	.000	.001	.001	.000	.000
%RSD	.534	.173	1.37	2.33	.572	.517	.392	.385	.923	1.37	.413

Elem	Mg2790	Mg2802	Mn2576	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068	Sb2175	Se1960	Se2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.005**	**1.51**	**.920**	**.681**	**.042**	**14700.**	**.008**	**.017**	**.020**	**.005**	**.001**
Stddev	.000	.01	.004	.002	.000	30.	.000	.000	.000	.000	.000
%RSD	1.34	.442	.382	.357	1.07	.206	1.16	1.18	1.24	1.20	1.13

Elem	Tl1908	V_2908	Zn2062
Units	Cts/S	Cts/S	Cts/S
Avg	**.007**	**.838**	**.129**
Stddev	.000	.013	.001
%RSD	1.08	1.50	1.13

Int. Std.	Y_3600
Units	Cts/S
Avg	**70548.**
Stddev	798.
%RSD	1.1311

Sample Name: CalibStd-100k Acquired: 11/29/2010 14:39:00 Type: Cal
Method: DOD Calibration 1(v1282) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Cr2835	Mn2593	Pb2169	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.40**	**6.58**	**.078**	**1.09**
Stddev	.00	.02	.001	.00
%RSD	.223	.258	.841	.385

Int. Std.	Y_3600
Units	Cts/S
Avg	**71221.**
Stddev	337.
%RSD	.47375

Sample Name: CalibStd=100000 Acquired: 11/29/2010 14:44:53 Type: Cal
Method: DOD Calibration 1(v1282) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al3092	Al3961	Ca3179	Fe2343	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.392**	**.745**	**1.17**	**.140**	**.053**
Stddev	.001	.002	.00	.000	.000
%RSD	.161	.281	.069	.300	.486

Int. Std.	Y_3600
Units	Cts/S
Avg	**70271.**
Stddev	228.
%RSD	.32457

Sample Name: CalibStd=500000 Acquired: 11/29/2010 14:50:40 Type: Cal
Method: DOD Calibration 1(v1282) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al3961	Ca3179	Fe2343	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3.83**	**5.44**	**.694**	**.259**
Stddev	.05	.07	.005	.003
%RSD	1.38	1.34	.788	1.06

Int. Std.	Y_3600
Units	Cts/S
Avg	**68082.**
Stddev	732.
%RSD	1.0753

Sample Name: CalibStd-1000k Acquired: 11/29/2010 14:56:43 Type: Cal
Method: DOD Calibration 1(v1282) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al3961	Ca3179	Fe2343	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7.61**	**10.4**	**1.29**	**.521**
Stddev	.19	.2	.01	.003
%RSD	2.50	2.01	1.05	.615

Int. Std.	Y_3600
Units	Cts/S
Avg	**65950.**
Stddev	616.
%RSD	.93434

Sample Name: icv Acquired: 11/29/2010 15:08:27 Type: QC
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247	Fe2395
Avg	**116.**	**12500.**	**2130.**	**2110.**	**51.7**	**10500.**	**49.9**	**459.**	**199.**	**257.**	**5230.**
Stddev	.	63.	20.	11.	.1	41.	.4	3.	2.	2.	22.
%RSD	.261	.505	.948	.520	.240	.392	.704	.680	1.04	.752	.424
Check ?	None	None	None	None	None	None	None	None	None	None	None
Value											
Range											

Elem	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se2062	Tl1908	V_2924	Zn2138
Avg	**9920.**	**531.**	**536.**	**514.**	**527.**	**516.**	**2210.**	**1830.**	**527.**	**534.**
Stddev	102.	3.	5.	2.	4.	3.	29.	19.	6.	4.
%RSD	1.02	.573	.897	.298	.834	.644	1.30	1.03	1.21	.810
Check ?	None	None	None	None	None	None	None	None	None	None
Value										
Range										

Int. Std.	Y_3600
Avg	**71175.**
Stddev	459.
%RSD	.64529

Sample Name: icb Acquired: 11/29/2010 15:19:31 Type: QC
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**-.038**	**.528**	**.511**	**-.303**	**.116**	**-2.53**	**-.064**	**.319**	**-1.26**	**.026**	**-133.**	**2.11**
Stddev	.331	3.12	1.11	.200	.080	1.93	.143	.278	.65	1.06	7.	1.99
%RSD	879.	591.	217.	66.0	68.6	76.4	223.	87.2	51.4	4010.	5.32	94.7
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	**.521**	**-1.26**	**-.007**	**-.416**	**-8.22**	**-5.29**	**.188**	**-1.10**	**-.476**
Stddev	.676	.41	.270	1.50	3.52	11.0	3.87	1.42	.088
%RSD	130.	32.4	3630.	361.	42.8	207.	2060.	129.	18.5
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**70062.**
Stddev	428.
%RSD	.61151

Sample Name: MRL Acquired: 11/29/2010 15:25:02 Type: QC
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1890	Ba4554	Be3130	Ca3968	Cd2265	Co2286	Cr2677	Cu2247	Fe2395	Mg2795
Avg	**20.3**	**413.**	**11.2**	**10.8**	**4.33**	**562.**	**5.11**	**11.2**	**9.38**	**11.8**	**286.**	**497.**
Stddev	.7	4.	2.8	.1	.04	2.	.09	.3	.25	.3	3.	2.
%RSD	3.58	1.02	24.9	.644	1.01	.364	1.72	3.07	2.68	2.68	1.05	.319
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	**11.9**	**9.74**	**11.0**	**10.1**	**14.9**	**7.48**	**22.3**	**9.72**	**12.6**
Stddev	.3	.49	.4	.2	.8	3.82	5.0	1.90	.3
%RSD	2.78	5.06	3.26	1.93	5.06	51.0	22.1	19.5	1.99
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	70585.
Stddev	250.
%RSD	.35349

Sample Name: icsa Acquired: 11/29/2010 15:30:27 Type: QC
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3961	As1937	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Avg	**.000**	**528000.**	**.581**	**.000**	**.000**	**543000.**	**-.001**	**.008**	**.000**	**.040**
Stddev	.28	5910.	4.41	.252	.088	3140.	.195	.152	.710	2.95
%RSD	42e15	1.12	758.	248e15	198e6	.579	21100.	1930.	1470000.	7460.
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2343	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Avg	**485000.**	**559000.**	**.000**	**-.120**	**.011**	**.051**	**.008**	**-.019**	**.620**	**.000**
Stddev	2350.	4250.	.33	.338	.957	2.07	7.55	5.29	6.51	1.73
%RSD	.484	.760	11e6	282.	8620.	4080.	91700.	27300.	1050.	1830000.
Check ?	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Zn2138
Avg	**.000**
Stddev	.61
%RSD	598000.
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: icsa Acquired: 11/29/2010 15:30:27 Type: QC
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Avg	**66871.**
Stddev	575.
%RSD	.86005

Sample Name: icsab Acquired: 11/29/2010 15:36:29 Type: QC
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be2348	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Avg	**478.**	**547000.**	**519.**	**586.**	**562.**	**558000.**	**432.**	**461.**	**478.**	**480.**
Stddev	7.	2680.	13.	8.	3.	4180.	7.	6.	6.	10.
%RSD	1.52	.490	2.53	1.43	.580	.749	1.69	1.32	1.31	2.05
Check ?	None	None	None	None	None	None	None	None	None	None
Value										
Range										

Elem	Fe2343	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Avg	**501000.**	**570000.**	**561.**	**520.**	**435.**	**449.**	**509.**	**510.**	**399.**	**530.**
Stddev	3220.	8530.	3.	7.	3.	7.	12.	18.	1.	10.
%RSD	.642	1.50	.579	1.33	.602	1.51	2.32	3.44	.336	1.90
Check ?	None	None	None	None	None	None	None	None	None	None
Value										
Range										

Elem	Zn2138
Avg	**520.**
Stddev	8.
%RSD	1.51
Check ?	None
Value	
Range	

Sample Name: icsab Acquired: 11/29/2010 15:36:29 Type: QC
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Avg	**66864.**
Stddev	683.
%RSD	1.0212

Sample Name: lcss35475 Acquired: 11/29/2010 15:47:54 Type: Unk
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2388	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**86.8**	**4240.**	**4120.**	**4100.**	**98.2**	**197000.**	**91.9**	**984.**	**362.**	**462.**
Stddev	.3	7.	26.	11.	.2	1440.	.5	6.	3.	1.
%RSD	.294	.158	.631	.255	.232	.729	.490	.609	.780	.301

Elem	Fe2343	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se2062	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**2180.**	**95900.**	**1010.**	**-1.51**	**887.**	**918.**	**1020.**	**4090.**	**3090.**	**967.**
Stddev	35.	1270.	3.	.59	1.	1.	2.	70.	5.	8.
%RSD	1.60	1.33	.260	38.8	.168	.135	.231	1.72	.174	.849

Elem	Zn2138
Units	ug/L
Avg	**995.**
Stddev	1.
%RSD	.054

Int. Std.	Y_3600
Units	Cts/S
Avg	**67787.**
Stddev	38.
%RSD	.05646

Sample Name: mbs35475 Acquired: 11/29/2010 15:53:35 Type: Unk
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-.089**	**.067**	**-1.61**	**-.207**	**.103**	**.143**	**-.024**	**.470**	**-1.40**	**-.459**	**-129.**	**1.45**
Stddev	.735	3.62	7.67	.120	.021	1.65	.221	.135	.44	.569	3.	.72
%RSD	826.	5430.	477.	57.7	20.4	1160.	924.	28.6	31.2	124.	2.70	49.3

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.499**	**-1.43**	**.202**	**1.21**	**-4.03**	**-.442**	**-1.47**	**-.450**	**-.511**
Stddev	.177	.35	.259	1.04	1.89	2.12	1.00	.732	.108
%RSD	35.3	24.8	128.	86.0	46.8	480.	68.2	163.	21.2

Int. Std.	Y_3600
Units	Cts/S
Avg	**70365.**
Stddev	132.
%RSD	.18704

Sample Name: 870200 Acquired: 11/29/2010 15:59:05 Type: Unk
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 5
Comment:

Elem	Ag3280	Al3961	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.992**	**97100.**	**-9.59**	**1130.**	**8.11**	**144000.**	**6.73**	**87.9**	**304.**	**143.**
Stddev	.089	827.	21.7	16.	.05	1810.	.14	.8	3.	2.
%RSD	8.93	.851	226.	1.39	.601	1.25	2.16	.941	.894	1.33

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**188000.**	**34700.**	**12600.**	**10.2**	**240.**	**852.**	**2450.**	**12.7**	**6.20**	**167.**
Stddev	1890.	90.	143.	.3	1.	8.	26.	7.1	7.34	1.
%RSD	1.01	.260	1.13	2.84	.520	.978	1.04	56.1	118.	.388

Elem	Zn2138
Units	ug/L
Avg	**733.**
Stddev	6.
%RSD	.772

Int. Std.	Y_3600
Units	Cts/S
Avg	**70988.**
Stddev	351.
%RSD	.49384

Sample Name: 870201 Acquired: 11/29/2010 16:04:39 Type: Unk
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 5
Comment:

Elem	Ag3280	Al3961	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.014**	**106000.**	**25.7**	**821.**	**5.06**	**22300.**	**5.69**	**84.4**	**1210.**	**115.**
Stddev	.586	164.	19.7	3.	.04	59.	.42	.5	7.	1.
%RSD	4120.	.155	76.7	.378	.818	.262	7.33	.565	.542	1.13

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**171000.**	**19700.**	**7090.**	**10.9**	**160.**	**181.**	**17.2**	**12.2**	**7.15**	**220.**
Stddev	1170.	298.	15.	.3	.	1.	4.5	8.6	3.14	1.
%RSD	.683	1.52	.217	3.07	.165	.568	26.2	70.1	43.9	.385

Elem	Zn2138
Units	ug/L
Avg	**465.**
Stddev	2.
%RSD	.364

Int. Std.	Y_3600
Units	Cts/S
Avg	**71688.**
Stddev	240.
%RSD	.33470

Sample Name: I870201 Acquired: 11/29/2010 16:10:24 Type: Unk
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 5
Comment:

Elem	Ag3280	Al3092	As1937	Ba4934	Be3130	Ca3968	Cd2265	Co2286	Cr2677	Cu2247	Fe2343
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.833**	**21600.**	**8.09**	**164.**	**1.06**	**4390.**	**1.05**	**17.9**	**259.**	**23.9**	**36400.**
Stddev	.521	36.	10.5	1.	.08	52.	.05	.1	4.	.4	84.
%RSD	62.6	.169	130.	.795	7.76	1.19	4.67	.619	1.47	1.80	.230

Elem	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**4100.**	**1450.**	**.462**	**33.7**	**38.4**	**-4.32**	**-4.82**	**4.14**	**43.0**	**100.**
Stddev	96.	2.	.544	.6	1.0	3.32	4.17	2.84	.7	1.
%RSD	2.33	.121	118.	1.81	2.56	76.8	86.4	68.7	1.52	1.10

Int. Std.	Y_3600
Units	Cts/S
Avg	**71874.**
Stddev	543.
%RSD	.75579

Sample Name: dup870201 Acquired: 11/29/2010 16:16:00 Type: Unk
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 5
Comment:

Elem	Ag3280	Al3961	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-.008**	**103000.**	**13.5**	**809.**	**5.11**	**22000.**	**5.44**	**79.6**	**1140.**	**108.**
Stddev	.384	681.	15.5	8.	.08	133.	.04	1.1	6.	3.
%RSD	4630.	.658	114.	.981	1.54	.605	.774	1.33	.508	2.99

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**169000.**	**19300.**	**7020.**	**9.06**	**154.**	**180.**	**8.41**	**-3.77**	**2.83**	**211.**
Stddev	541.	473.	45.	.21	2.	4.	4.67	12.3	4.31	3.
%RSD	.321	2.45	.646	2.37	1.21	2.14	55.5	327.	152.	1.65

Elem	Zn2138
Units	ug/L
Avg	**444.**
Stddev	5.
%RSD	1.19

Int. Std.	Y_3600
Units	Cts/S
Avg	**71976.**
Stddev	318.
%RSD	.44161

Sample Name: mss870201 Acquired: 11/29/2010 16:21:46 Type: Unk
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 5
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**15.0**	**151000.**	**914.**	**1700.**	**26.7**	**62800.**	**25.9**	**257.**	**1050.**	**204.**
Stddev	.5	137.	29.	1.	.1	127.	.1	1.	3.	1.
%RSD	3.26	.091	3.22	.079	.481	.203	.430	.415	.295	.597

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**203000.**	**42000.**	**6950.**	**9.65**	**338.**	**356.**	**26.8**	**817.**	**617.**	**419.**
Stddev	1020.	269.	7.	1.42	1.	2.	1.0	8.	11.	2.
%RSD	.501	.640	.098	14.7	.284	.468	3.60	1.03	1.81	.422

Elem	Zn2138
Units	ug/L
Avg	**661.**
Stddev	3.
%RSD	.394

Int. Std.	Y_3600
Units	Cts/S
Avg	**71014.**
Stddev	338.
%RSD	.47664

Sample Name: msds870201 Acquired: 11/29/2010 16:27:22 Type: Unk
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 5
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**15.7**	**153000.**	**920.**	**1710.**	**26.9**	**64100.**	**25.1**	**259.**	**1060.**	**208.**
Stddev	1.2	373.	22.	5.	.1	211.	.2	2.	7.	2.
%RSD	7.36	.244	2.43	.309	.511	.330	.788	.785	.684	1.02

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**212000.**	**41400.**	**7070.**	**10.8**	**339.**	**359.**	**28.5**	**798.**	**614.**	**425.**
Stddev	878.	191.	20.	.4	1.	4.	1.1	13.	8.	6.
%RSD	.415	.462	.283	4.09	.280	1.06	3.67	1.65	1.38	1.40

Elem	Zn2138
Units	ug/L
Avg	**668.**
Stddev	6.
%RSD	.876

Int. Std.	Y_3600
Units	Cts/S
Avg	**70586.**
Stddev	589.
%RSD	.83412

Sample Name: pdss870201 Acquired: 11/29/2010 16:32:59 Type: Unk
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 5
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2388	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**100.**	**290000.**	**3930.**	**5000.**	**104.**	**212000.**	**92.2**	**947.**	**1390.**	**527.**
Stddev	1.	5660.	36.	91.	2.	710.	.6	18.	31.	4.
%RSD	.995	1.95	.905	1.82	1.77	.335	.678	1.85	2.24	.697

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2216	Pb2203	Sb2068	Se2062	Tl1908	V_2908
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**335000.**	**117000.**	**187000.**	**8.96**	**1030.**	**994.**	**960.**	**3700.**	**2810.**	**1140.**
Stddev	7680.	2040.	2790.	.91	1.	5.	8.	69.	13.	10.
%RSD	2.29	1.75	1.49	10.2	.089	.510	.802	1.86	.475	.894

Elem	Zn2062
Units	ug/L
Avg	**1270.**
Stddev	6.
%RSD	.499

Int. Std.	Y_3600
Units	Cts/S
Avg	**69290.**
Stddev	417.
%RSD	.60145

Sample Name: ccv1 Acquired: 11/29/2010 16:39:01 Type: QC
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be2348	Ca3179	Cd2288	Co2388	Cr2835	Cu2247	Fe2343	Mg2790
Avg	**447.**	**5240.**	**4990.**	**5150.**	**498.**	**4920.**	**501.**	**4970.**	**4880.**	**5050.**	**5290.**	**4600.**
Stddev	19.	230.	191.	243.	25.	251.	19.	235.	243.	194.	215.	262.
%RSD	4.26	4.40	3.82	4.73	5.05	5.10	3.70	4.73	4.98	3.84	4.07	5.70
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068	Se2062	Tl1908	V_2908	Zn2062
Avg	**5120.**	**4990.**	**5150.**	**5090.**	**4780.**	**5120.**	**4550.**	**5020.**	**5020.**
Stddev	243.	191.	3.	213.	185.	215.	201.	198.	206.
%RSD	4.75	3.83	.052	4.19	3.86	4.19	4.42	3.95	4.10
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**71293.**
Stddev	2843.
%RSD	3.9880

Sample Name: ccv2 Acquired: 11/29/2010 16:44:18 Type: QC
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4934	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	**51.4**	**543.**	**538.**	**535.**	**51.9**	**502.**	**51.8**	**526.**	**522.**	**543.**	**551.**	**533.**
Stddev	.9	2.	11.	3.	.2	2.	.2	2.	13.	1.	6.	1.
%RSD	1.76	.452	2.11	.480	.383	.466	.332	.405	2.44	.191	1.17	.103
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	**529.**	**527.**	**516.**	**533.**	**527.**	**558.**	**473.**	**536.**	**531.**
Stddev	2.	1.	2.	1.	4.	7.	2.	7.	1.
%RSD	.368	.099	.412	.239	.797	1.18	.493	1.39	.237
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**69507.**
Stddev	283.
%RSD	.40726

Sample Name: ccb Acquired: 11/29/2010 16:55:00 Type: QC
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**.360**	**.113**	**-5.06**	**.064**	**.045**	**-3.37**	**.021**	**.167**	**-.749**	**-.194**	**-144.**	**.657**
Stddev	.711	5.65	6.56	.184	.047	.20	.138	.159	1.30	.418	10.	.125
%RSD	198.	4980.	130.	287.	105.	5.86	655.	94.8	174.	215.	6.85	19.0
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**.469**	**-1.24**	**-.471**	**-.606**	**-7.04**	**-6.57**	**-3.03**	**-.749**	**-.685**
Stddev	.232	.18	.587	2.11	3.21	11.5	4.56	.855	.146
%RSD	49.5	14.2	125.	348.	45.6	175.	151.	114.	21.3
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**69054.**
Stddev	321.
%RSD	.46516

Sample Name: 870202 Acquired: 11/29/2010 17:00:32 Type: Unk
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 5
Comment:

Elem	Ag3280	Al3961	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.332**	**102000.**	**-20.3**	**750.**	**5.80**	**35400.**	**3.98**	**90.8**	**204.**	**123.**
Stddev	.626	1180.	10.8	13.	.19	342.	.13	.4	3.	1.
%RSD	189.	1.15	53.3	1.69	3.22	.966	3.28	.437	1.61	.812

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**212000.**	**20600.**	**6710.**	**8.83**	**167.**	**209.**	**-3.92**	**3.90**	**4.49**	**197.**
Stddev	633.	375.	78.	1.38	2.	2.	2.57	7.09	4.25	3.
%RSD	.299	1.82	1.17	15.6	1.48	.994	65.6	182.	94.6	1.36

Elem	Zn2138
Units	ug/L
Avg	**517.**
Stddev	1.
%RSD	.216

Int. Std.	Y_3600
Units	Cts/S
Avg	**69501.**
Stddev	564.
%RSD	.81216

Sample Name: 870203 Acquired: 11/29/2010 17:06:18 Type: Unk
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 5
Comment:

Elem	Ag3280	Al3961	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.322**	**103000.**	**-19.0**	**747.**	**5.13**	**22500.**	**3.41**	**69.5**	**238.**	**95.5**
Stddev	.195	2710.	12.5	20.	.20	659.	.04	1.5	3.	1.7
%RSD	60.4	2.63	65.5	2.61	3.95	2.94	1.10	2.14	1.18	1.82

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**204000.**	**15800.**	**7700.**	**9.48**	**141.**	**154.**	**-3.99**	**19.5**	**2.29**	**202.**
Stddev	6510.	323.	188.	1.61	2.	1.	6.02	2.5	4.13	4.
%RSD	3.20	2.04	2.44	16.9	1.60	.642	151.	12.7	180.	2.16

Elem	Zn2138
Units	ug/L
Avg	**421.**
Stddev	8.
%RSD	1.88

Int. Std.	Y_3600
Units	Cts/S
Avg	**70134.**
Stddev	321.
%RSD	.45819

Sample Name: 870204 Acquired: 11/29/2010 17:12:04 Type: Unk
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 5
Comment:

Elem	Ag3280	Al3961	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1.02**	**97200.**	**-29.0**	**941.**	**5.72**	**34800.**	**3.78**	**72.6**	**634.**	**84.5**
Stddev	.33	1280.	16.3	14.	.05	344.	.43	.5	3.	1.9
%RSD	32.6	1.31	56.2	1.46	.832	.988	11.3	.675	.397	2.24

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**185000.**	**15700.**	**13300.**	**10.3**	**121.**	**180.**	**3.37**	**16.4**	**10.1**	**195.**
Stddev	893.	229.	153.	1.3	1.	4.	1.92	5.0	9.1	3.
%RSD	.483	1.46	1.15	12.7	.472	2.22	56.9	30.2	90.2	1.41

Elem	Zn2138
Units	ug/L
Avg	**486.**
Stddev	5.
%RSD	1.01

Int. Std.	Y_3600
Units	Cts/S
Avg	**70595.**
Stddev	152.
%RSD	.21564

Sample Name: 870207 Acquired: 11/29/2010 17:17:50 Type: Unk
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 5
Comment:

Elem	Ag3280	Al3961	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.739**	**97100.**	**-19.1**	**865.**	**5.59**	**37100.**	**4.03**	**77.3**	**1200.**	**105.**
Stddev	.109	2420.	8.0	21.	.07	924.	.13	1.2	32.	1.
%RSD	14.8	2.49	42.0	2.44	1.22	2.49	3.29	1.52	2.66	.618

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**196000.**	**17900.**	**8320.**	**11.1**	**150.**	**158.**	**10.2**	**9.10**	**6.64**	**195.**
Stddev	5410.	558.	207.	.5	.	4.	5.5	1.95	7.71	3.
%RSD	2.76	3.12	2.49	4.80	.089	2.65	53.6	21.4	116.	1.67

Elem	Zn2138
Units	ug/L
Avg	**477.**
Stddev	8.
%RSD	1.73

Int. Std.	Y_3600
Units	Cts/S
Avg	**69899.**
Stddev	1263.
%RSD	1.8065

Sample Name: 871184 Acquired: 11/29/2010 17:23:35 Type: Unk
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 5
Comment:

Elem	Ag3280	Al3092	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1.50**	**81600.**	**-90.5**	**2060.**	**6.63**	**509000.**	**6.72**	**71.2**	**155.**	**81.8**
Stddev	.27	2120.	12.1	56.	.24	14800.	.12	2.3	2.	3.8
%RSD	18.1	2.60	13.4	2.69	3.66	2.91	1.73	3.17	1.12	4.68

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**225000.**	**22900.**	**11300.**	**12.8**	**145.**	**120.**	**-5.10**	**17.5**	**5.85**	**159.**
Stddev	4840.	888.	280.	.9	5.	4.	2.70	11.7	4.89	1.
%RSD	2.15	3.87	2.48	6.83	3.20	2.98	52.9	67.3	83.7	.413

Elem	Zn2138
Units	ug/L
Avg	**495.**
Stddev	13.
%RSD	2.69

Int. Std.	Y_3600
Units	Cts/S
Avg	**68974.**
Stddev	444.
%RSD	.64427

Sample Name: 871186 Acquired: 11/29/2010 17:29:22 Type: Unk
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 5
Comment:

Elem	Ag3280	Al3092	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.098**	**38700.**	**-10.1**	**636.**	**4.67**	**434000.**	**4.50**	**195.**	**93.0**	**902.**
Stddev	.151	1820.	11.7	34.	.25	24100.	.17	6.	1.4	28.
%RSD	155.	4.70	116.	5.27	5.32	5.55	3.81	3.00	1.47	3.07

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**101000.**	**24400.**	**5310.**	**2.75**	**158.**	**202.**	**214.**	**5.40**	**-.656**	**45.4**
Stddev	4320.	1370.	232.	.83	4.	8.	7.	7.53	7.54	2.1
%RSD	4.29	5.61	4.37	30.3	2.55	3.83	3.14	139.	1150.	4.62

Elem	Zn2062
Units	ug/L
Avg	**5760.**
Stddev	168.
%RSD	2.91

Int. Std.	Y_3600
Units	Cts/S
Avg	**68492.**
Stddev	421.
%RSD	.61495

Sample Name: 871187 Acquired: 11/29/2010 17:35:07 Type: Unk
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 5
Comment:

Elem	Ag3280	Al3961	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1.43**	**96200.**	**-28.7**	**908.**	**4.50**	**244000.**	**4.52**	**62.4**	**555.**	**67.3**
Stddev	.44	5710.	16.9	51.	.19	12300.	.41	.9	13.	2.4
%RSD	30.8	5.94	58.8	5.59	4.16	5.06	9.19	1.48	2.25	3.58

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**164000.**	**20700.**	**9540.**	**5.89**	**107.**	**107.**	**.069**	**6.81**	**2.49**	**183.**
Stddev	9670.	1100.	543.	.81	2.	1.	3.14	6.87	1.70	3.
%RSD	5.89	5.30	5.69	13.7	1.69	1.36	4550.	101.	68.2	1.77

Elem	Zn2138
Units	ug/L
Avg	**388.**
Stddev	9.
%RSD	2.25

Int. Std.	Y_3600
Units	Cts/S
Avg	**69791.**
Stddev	556.
%RSD	.79736

Sample Name: 871188 Acquired: 11/29/2010 17:40:54 Type: Unk
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 5
Comment:

Elem	Ag3280	Al3092	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1.02**	**88700.**	**-55.3**	**5820.**	**11.9**	**1490000.**	**11.4**	**58.5**	**329.**
Stddev	.23	1770.	12.8	126.	.2	22600.	.2	.5	6.
%RSD	22.9	1.99	23.2	2.17	1.93	1.52	1.48	.842	1.81

Elem	Cu2247	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**106.**	**241000.**	**67000.**	**14300.**	**15.3**	**168.**	**273.**	**.363**	**13.3**
Stddev	3.	3520.	1280.	257.	.8	2.	1.	4.46	14.0
%RSD	2.51	1.46	1.91	1.81	5.54	.962	.372	1230.	105.

Elem	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L
Avg	**13.5**	**114.**	**695.**
Stddev	10.7	2.	4.
%RSD	79.6	2.04	.642

Int. Std.	Y_3600
Units	Cts/S
Avg	**68800.**
Stddev	401.
%RSD	.58290

Sample Name: 871189 Acquired: 11/29/2010 17:46:46 Type: Unk
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 5
Comment:

Elem	Ag3280	Al3092	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1.17**	**78400.**	**-66.3**	**1770.**	**5.25**	**409000.**	**19.2**	**78.2**	**147.**	**96.8**
Stddev	.17	297.	19.2	3.	.08	1170.	.3	.3	1.	.7
%RSD	14.3	.379	28.9	.172	1.48	.285	1.47	.401	.706	.753

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**210000.**	**23300.**	**8880.**	**11.4**	**171.**	**140.**	**-7.88**	**6.03**	**-.091**	**163.**
Stddev	909.	169.	13.	.8	1.	2.	4.19	10.2	4.09	1.
%RSD	.433	.727	.150	7.23	.375	1.68	53.2	169.	4480.	.446

Elem	Zn2062
Units	ug/L
Avg	**1680.**
Stddev	5.
%RSD	.271

Int. Std.	Y_3600
Units	Cts/S
Avg	**70032.**
Stddev	297.
%RSD	.42383

Sample Name: 871190 Acquired: 11/29/2010 17:52:33 Type: Unk
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 5
Comment:

Elem	Ag3280	Al3961	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.939**	**106000.**	**-26.5**	**1010.**	**5.96**	**198000.**	**5.15**	**95.6**	**1140.**	**124.**
Stddev	.545	7030.	3.9	62.	.32	11000.	.19	3.7	79.	3.
%RSD	58.1	6.62	14.6	6.13	5.29	5.54	3.58	3.85	6.98	2.32

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**196000.**	**21800.**	**13100.**	**10.9**	**167.**	**131.**	**9.29**	**14.1**	**-1.18**	**199.**
Stddev	13900.	1110.	837.	2.1	3.	5.	3.02	10.0	7.49	7.
%RSD	7.06	5.11	6.40	19.6	1.51	3.64	32.5	71.1	634.	3.50

Elem	Zn2138
Units	ug/L
Avg	**447.**
Stddev	19.
%RSD	4.26

Int. Std.	Y_3600
Units	Cts/S
Avg	**70916.**
Stddev	1722.
%RSD	2.4275

Sample Name: ccv1 Acquired: 11/29/2010 17:58:17 Type: QC
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be2348	Ca3179	Cd2288	Co2388	Cr2835	Cu2247	Fe2343	Mg2790
Avg	**466.**	**5370.**	**5180.**	**5600.**	**512.**	**5100.**	**531.**	**5180.**	**5120.**	**5440.**	**5080.**	**5250.**
Stddev	14.	249.	150.	244.	19.	199.	14.	194.	190.	152.	141.	250.
%RSD	2.96	4.64	2.89	4.36	3.65	3.90	2.68	3.75	3.71	2.79	2.77	4.76
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2593	Mo2045	Ni2216	Pb2169	Sb2175	Se2062	Tl1908	V_2908	Zn2062
Avg	**5330.**	**5220.**	**5040.**	**5350.**	**4980.**	**5510.**	**4920.**	**5190.**	**5160.**
Stddev	205.	137.	11.	130.	119.	211.	164.	151.	149.
%RSD	3.85	2.63	.225	2.44	2.39	3.83	3.33	2.91	2.90
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**69017.**
Stddev	1990.
%RSD	2.8835

Sample Name: ccv2 Acquired: 11/29/2010 18:03:34 Type: QC
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4934	Be3130	Ca3933	Cd2265	Co2286	Co2388	Cr2677	Cu2247	Mg2795
Avg	**51.0**	**587.**	**516.**	**568.**	**53.6**	**591.**	**55.3**	**543.**	**527.**	**561.**	**566.**	**535.**
Stddev	.1	4.	21.	1.	.2	2.	.2	3.	2.	3.	3.	2.
%RSD	.237	.714	4.00	.104	.367	.310	.422	.566	.407	.548	.602	.310
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**535.**	**529.**	**524.**	**539.**	**501.**	**538.**	**487.**	**539.**	**536.**
Stddev	2.	4.	.	5.	5.	16.	13.	4.	2.
%RSD	.371	.679	.078	.939	1.08	2.88	2.59	.806	.417
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**69576.**
Stddev	355.
%RSD	.51041

Sample Name: ccb Acquired: 11/29/2010 18:14:17 Type: QC
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**.044**	**-6.72**	**-5.61**	**-.382**	**.076**	**-1.98**	**-.092**	**.343**	**-1.38**	**.358**	**-134.**	**.961**
Stddev	.365	.82	5.84	.167	.080	.21	.051	.149	.71	.435	8.	.143
%RSD	828.	12.3	104.	43.7	105.	10.4	55.7	43.5	51.3	121.	5.76	14.9
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	**.724**	**-.957**	**.149**	**.013**	**-9.73**	**-5.25**	**-2.87**	**-1.82**	**-.616**
Stddev	.358	.377	.226	1.72	2.97	3.09	4.95	1.01	.082
%RSD	49.4	39.5	152.	13300.	30.6	58.9	172.	55.6	13.3
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**68955.**
Stddev	873.
%RSD	1.2654

Sample Name: 871191 Acquired: 11/29/2010 18:19:48 Type: Unk
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 5
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1.37**	**70100.**	**88.7**	**4440.**	**6.69**	**1130000.**	**9.81**	**64.0**	**317.**
Stddev	.12	2730.	8.0	168.	.27	44900.	.20	1.2	2.
%RSD	9.03	3.89	8.99	3.78	4.09	3.99	2.01	1.89	.571

Elem	Cu2247	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**100.**	**290000.**	**30300.**	**9930.**	**17.0**	**178.**	**128.**	**1.55**	**7.01**
Stddev	.	9170.	1180.	358.	1.3	1.	3.	2.16	5.77
%RSD	.456	3.16	3.90	3.60	7.91	.813	2.20	140.	82.3

Elem	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L
Avg	**12.9**	**136.**	**706.**
Stddev	2.4	.	12.
%RSD	18.3	.198	1.65

Int. Std.	Y_3600
Units	Cts/S
Avg	**67797.**
Stddev	443.
%RSD	.65304

Sample Name: 871192 Acquired: 11/29/2010 18:25:44 Type: Unk
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 5
Comment:

Elem	Ag3280	Al3092	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.837**	**86800.**	**-28.9**	**837.**	**4.49**	**368000.**	**2.85**	**62.9**	**515.**	**81.9**
Stddev	.795	2230.	7.5	22.	.17	12300.	.26	1.5	13.	1.4
%RSD	95.0	2.57	25.7	2.62	3.86	3.34	8.92	2.33	2.42	1.66

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**170000.**	**17300.**	**7350.**	**6.34**	**127.**	**116.**	**3.96**	**-1.37**	**3.26**	**173.**
Stddev	4670.	428.	176.	.99	3.	1.	4.47	12.6	5.74	3.
%RSD	2.75	2.47	2.40	15.6	2.04	1.10	113.	915.	176.	1.67

Elem	Zn2138
Units	ug/L
Avg	**405.**
Stddev	10.
%RSD	2.41

Int. Std.	Y_3600
Units	Cts/S
Avg	**68448.**
Stddev	841.
%RSD	1.2290

Sample Name: 871193 Acquired: 11/29/2010 18:31:32 Type: Unk
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 5
Comment:

Elem	Ag3280	Al3092	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.306**	**81200.**	**.013**	**819.**	**5.80**	**342000.**	**3.38**	**75.4**	**121.**	**123.**
Stddev	.257	704.	22.0	12.	.05	3110.	.08	.4	2.	1.
%RSD	84.2	.867	172000.	1.47	.846	.908	2.47	.514	1.41	.455

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**168000.**	**20300.**	**6560.**	**6.77**	**148.**	**115.**	**-7.84**	**12.8**	**4.05**	**145.**
Stddev	816.	261.	59.	.29	2.	.	4.94	12.2	3.88	.
%RSD	.485	1.29	.904	4.27	1.31	.429	63.1	95.2	95.7	.163

Elem	Zn2138
Units	ug/L
Avg	**445.**
Stddev	3.
%RSD	.755

Int. Std.	Y_3600
Units	Cts/S
Avg	**68205.**
Stddev	39.
%RSD	.05748

Sample Name: 871194 Acquired: 11/29/2010 18:37:22 Type: Unk
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 5
Comment:

Elem	Ag3280	Al3092	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-.225**	**37200.**	**-25.6**	**447.**	**3.74**	**121000.**	**4.27**	**204.**	**1860.**	**928.**
Stddev	.179	943.	9.2	11.	.13	3030.	.13	.	50.	3.
%RSD	79.5	2.53	35.9	2.44	3.52	2.50	3.08	.106	2.71	.301

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**123000.**	**11400.**	**4130.**	**5.82**	**189.**	**217.**	**3.81**	**1.78**	**.611**	**62.8**
Stddev	2740.	246.	110.	.96	1.	1.	1.94	12.7	2.00	.4
%RSD	2.23	2.15	2.67	16.4	.471	.353	51.1	716.	328.	.710

Elem	Zn2062
Units	ug/L
Avg	**2850.**
Stddev	18.
%RSD	.630

Int. Std.	Y_3600
Units	Cts/S
Avg	**68223.**
Stddev	475.
%RSD	.69664

Sample Name: 871195 Acquired: 11/29/2010 18:42:52 Type: Unk
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 5
Comment:

Elem	Ag3280	Al3092	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.046**	**27900.**	**-46.8**	**288.**	**3.07**	**71600.**	**2.96**	**268.**	**77.9**	**1260.**
Stddev	.477	437.	9.4	6.	.07	1300.	.27	2.	.6	9.
%RSD	1040.	1.57	20.1	1.98	2.10	1.82	9.25	.579	.753	.699

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**130000.**	**8690.**	**4010.**	**2.09**	**145.**	**146.**	**-5.66**	**.764**	**3.88**	**55.6**
Stddev	1850.	164.	59.	1.29	1.	1.	4.77	1.83	7.11	1.3
%RSD	1.42	1.89	1.46	62.0	.700	.756	84.3	240.	183.	2.40

Elem	Zn2138
Units	ug/L
Avg	**503.**
Stddev	4.
%RSD	.797

Int. Std.	Y_3600
Units	Cts/S
Avg	**67746.**
Stddev	358.
%RSD	.52836

Sample Name: 871196 Acquired: 11/29/2010 18:48:23 Type: Unk
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 5
Comment:

Elem	Ag3280	Al3092	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.159**	**21500.**	**4.44**	**426.**	**2.14**	**336000.**	**2.63**	**698.**	**65.7**	**3420.**
Stddev	.284	689.	2.18	13.	.07	13500.	.11	12.	1.5	55.
%RSD	178.	3.21	49.0	3.07	3.52	4.01	4.12	1.65	2.32	1.61

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**92800.**	**8510.**	**2790.**	**1.89**	**259.**	**217.**	**-6.94**	**6.33**	**3.42**	**39.0**
Stddev	2760.	382.	95.	.90	4.	4.	2.25	8.43	3.11	.2
%RSD	2.97	4.49	3.41	47.7	1.39	1.65	32.4	133.	91.0	.412

Elem	Zn2138
Units	ug/L
Avg	**484.**
Stddev	9.
%RSD	1.85

Int. Std.	Y_3600
Units	Cts/S
Avg	**67266.**
Stddev	224.
%RSD	.33229

Sample Name: 871197 Acquired: 11/29/2010 18:54:01 Type: Unk
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 5
Comment:

Elem	Ag3280	Al3092	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.556**	**32500.**	**-17.1**	**660.**	**3.94**	**473000.**	**4.47**	**204.**	**82.7**	**944.**
Stddev	.096	954.	12.0	23.	.14	15100.	.22	2.	1.7	11.
%RSD	17.3	2.93	70.1	3.46	3.64	3.20	4.90	.978	2.01	1.18

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**106000.**	**17100.**	**4710.**	**3.00**	**163.**	**171.**	**-7.54**	**-7.02**	**6.12**	**43.6**
Stddev	3180.	683.	137.	.42	1.	3.	1.93	7.06	.20	.9
%RSD	2.99	3.98	2.90	13.9	.440	1.64	25.6	101.	3.19	1.96

Elem	Zn2062
Units	ug/L
Avg	**2990.**
Stddev	36.
%RSD	1.19

Int. Std.	Y_3600
Units	Cts/S
Avg	**67649.**
Stddev	385.
%RSD	.56891

Sample Name: 871198 Acquired: 11/29/2010 18:59:48 Type: Unk
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 5
Comment:

Elem	Ag3280	Al3092	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1.44**	**85500.**	**-73.9**	**2790.**	**7.70**	**570000.**	**8.59**	**80.4**	**812.**	**127.**
Stddev	.25	719.	5.6	23.	.17	7830.	.32	1.3	9.	4.
%RSD	17.6	.841	7.55	.839	2.18	1.37	3.72	1.65	1.06	3.20

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**245000.**	**25200.**	**10600.**	**17.9**	**181.**	**176.**	**1.10**	**18.1**	**8.32**	**174.**
Stddev	1070.	380.	81.	1.2	1.	5.	1.14	7.8	5.38	3.
%RSD	.436	1.51	.761	6.60	.801	2.69	104.	43.2	64.6	1.73

Elem	Zn2138
Units	ug/L
Avg	**588.**
Stddev	9.
%RSD	1.61

Int. Std.	Y_3600
Units	Cts/S
Avg	**68705.**
Stddev	648.
%RSD	.94267

Sample Name: ccv1 Acquired: 11/29/2010 19:16:44 Type: QC
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be2348	Ca3179	Cd2288	Co2388	Cr2835	Cu2247	Fe2343	Mg2790
Avg	**466.**	**5230.**	**5110.**	**5310.**	**519.**	**5080.**	**519.**	**5100.**	**5080.**	**5180.**	**5490.**	**4610.**
Stddev	4.	17.	35.	8.	4.	21.	2.	28.	25.	19.	47.	14.
%RSD	.801	.333	.687	.155	.767	.422	.311	.540	.487	.364	.850	.315
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068	Se2062	Tl1908	V_2908	Zn2062
Avg	**5290.**	**5090.**	**5160.**	**5290.**	**4970.**	**5290.**	**4620.**	**5260.**	**5180.**
Stddev	33.	14.	5.	11.	26.	59.	12.	2.	25.
%RSD	.624	.279	.089	.199	.513	1.11	.259	.033	.484
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**68625.**
Stddev	272.
%RSD	.39586

Sample Name: ccv2 Acquired: 11/29/2010 19:22:00 Type: QC
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4934	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**51.0**	**536.**	**546.**	**531.**	**52.2**	**495.**	**50.7**	**517.**	**510.**	**533.**	**552.**	**480.**
Stddev	.7	5.	4.	8.	.5	6.	.3	3.	8.	4.	6.	7.
%RSD	1.33	1.02	.795	1.51	.965	1.21	.502	.562	1.48	.798	1.05	1.54
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**526.**	**518.**	**514.**	**530.**	**506.**	**552.**	**457.**	**541.**	**526.**
Stddev	6.	4.	2.	5.	6.	3.	1.	5.	3.
%RSD	1.14	.736	.374	.943	1.09	.519	.225	.860	.560
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**69806.**
Stddev	452.
%RSD	.64780

Sample Name: ccb Acquired: 11/29/2010 19:32:42 Type: QC
Method: DOD Calibration 1(v1282) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

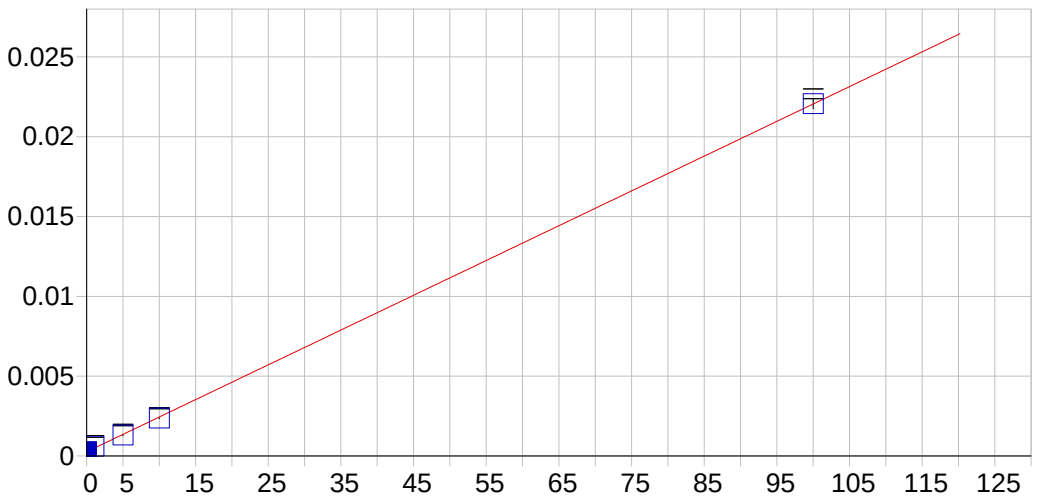
Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**.331**	**-5.18**	**-7.37**	**-.228**	**.043**	**-2.20**	**-.030**	**.068**	**-1.24**	**-1.43**	**-135.**	**.906**
Stddev	.694	2.40	5.36	.142	.049	.17	.144	.401	.44	.95	5.	.103
%RSD	210.	46.4	72.8	62.1	116.	7.53	478.	590.	35.0	67.0	3.86	11.4
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	**.685**	**-1.33**	**-.306**	**.471**	**-8.16**	**6.76**	**-3.33**	**-1.65**	**-.581**
Stddev	.185	.30	.427	.658	2.04	5.56	5.75	1.70	.124
%RSD	27.0	22.5	139.	140.	25.0	82.3	173.	103.	21.3
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**68128.**
Stddev	310.
%RSD	.45555

Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)	Correlation	Std Error of Est	Predicted MDL	Predicted MQL
Ag 328.068 {103}	12/03/2010 13:24:08	12/03/2010 13:24:08	Linear	None	0.000262	0.000218	0.000000	1.000000	0.999969	0.000086	0.782889	2.609630
Ag 338.289 {100}	12/03/2010 12:40:18	12/03/2010 12:40:18	Linear	None	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	-1.000000	-1.000000
Al 167.079 {502}	12/03/2010 13:29:13	12/03/2010 13:29:13	Linear	None	0.000003	0.000002	0.000000	1.000000	0.999968	0.000009	2.185326	7.284421
Al 309.271 {109}	12/03/2010 13:46:44	12/03/2010 13:46:44	Linear	1/Conc	0.001036	0.000005	0.000000	1.000000	0.999458	0.000072	23.295930	77.653099
Al 396.152 { 85}	12/03/2010 13:58:49	12/03/2010 13:58:49	Full Fit	1/Conc	0.000191	0.000009	0.000000	1.020000	0.999904	0.000342	17.981099	59.936998
As 189.042 {479}	12/03/2010 13:34:58	12/03/2010 13:34:58	Linear	1/Conc	0.000001	0.000000	0.000000	1.000000	0.999916	0.000000	15.294384	50.981279
As 193.759 {474}	12/03/2010 13:29:13	12/03/2010 13:29:13	Linear	None	-0.000002	0.000000	0.000000	1.000000	0.999952	0.000002	15.455569	51.518562
Ba 455.403 { 74}	12/03/2010 13:24:08	12/03/2010 13:24:08	Linear	1/Conc	-0.000476	0.000490	0.000000	1.000000	0.999844	0.000004	0.515510	1.718368
Ba 493.409 { 68}	12/03/2010 13:34:58	12/03/2010 13:34:58	Linear	1/Conc	0.033137	0.000625	0.000000	1.000000	0.999983	0.000661	0.790795	2.635984
Be 234.861 {144}	12/03/2010 13:29:13	12/03/2010 13:29:13	Linear	None	-0.000100	0.000067	0.000000	1.000000	0.999997	0.000124	0.475079	1.583595
Be 313.042 {108}	12/03/2010 13:29:13	12/03/2010 13:29:13	Linear	1/Conc	0.000050	0.001028	0.000000	1.000000	0.999970	0.000005	0.108934	0.363113
Ca 317.933 {106}	12/03/2010 13:58:49	12/03/2010 13:58:49	Full Fit	1/Conc	0.003803	0.000015	-0.000000	0.990000	0.999965	0.000220	3.694505	12.315015
Ca 393.366 { 86}	12/06/2010 13:55:09	12/03/2010 13:29:13	Linear	None	0.011790	0.002655	0.000000	1.000000	1.000000	0.000000	0.054122	0.180407
Ca 396.847 { 85}	12/06/2010 13:58:31	12/03/2010 13:34:58	Linear	1/Conc	0.004308	0.000814	0.000000	1.000000	0.995910	0.003479	0.124558	0.415194
Cd 226.502 {449}	12/03/2010 13:29:13	12/03/2010 13:29:13	Linear	1/Conc	0.000006	0.000100	0.000000	1.000000	0.999812	0.000001	0.170774	0.569248
Cd 228.802 {447}	12/03/2010 13:29:13	12/03/2010 13:29:13	Linear	None	0.000031	0.000059	0.000000	1.000000	1.000000	0.000028	0.246135	0.820448
Co 228.616 {447}	12/03/2010 13:29:13	12/03/2010 13:29:13	Linear	1/Conc	-0.000003	0.000039	0.000000	1.000000	0.999959	0.000000	0.316067	1.053556
Co 238.892 {141}	12/03/2010 13:34:58	12/03/2010 13:34:58	Linear	1/Conc	0.000006	0.000006	0.000000	1.000000	0.999901	0.000014	5.341604	17.805347
Cr 267.716 {126}	12/03/2010 13:29:13	12/03/2010 13:29:13	Linear	1/Conc	-0.000011	0.000105	0.000000	1.000000	0.999532	0.000004	0.761934	2.539780
Cr 283.563 {119}	12/03/2010 13:40:52	12/03/2010 13:40:52	Linear	1/Conc	0.000069	0.000021	0.000000	1.000000	0.999991	0.000008	3.053421	10.178069
Cu 224.700 {450}	12/03/2010 13:34:58	12/03/2010 13:34:58	Linear	1/Conc	0.000086	0.000018	0.000000	1.000000	0.999892	0.000002	0.857844	2.859479
Cu 324.754 {104}	12/03/2010 13:40:52	12/03/2010 13:40:52	Linear	None	0.000943	0.000006	0.000000	1.000000	1.000000	0.000153	11.840714	39.469047
Cu 327.396 {103}	12/03/2010 13:29:13	12/03/2010 13:29:13	Linear	None	0.000881	0.000077	0.000000	1.000000	0.999927	0.000413	2.353007	7.843358
Fe 234.349 {144}	12/06/2010 14:05:25	12/03/2010 13:58:50	Full Fit	None	0.000059	0.000000	0.000000	1.030000	1.000000	0.000084	321.366440	1071.22146
Fe 239.562 {141}	12/06/2010 13:50:57	12/03/2010 13:34:58	Linear	None	0.000509	0.000003	0.000000	1.000000	0.999621	0.000712	6.935094	23.116979
Fe 259.940 {130}	12/06/2010 14:07:05	12/03/2010 13:29:14	Linear	1/Conc	0.000152	0.000021	0.000000	1.000000	0.996417	0.000011	2.352812	7.842707
Mg 279.079 {121}	12/06/2010 13:52:40	12/03/2010 13:58:50	Full Fit	None	0.000386	0.000001	0.000000	1.030000	1.000000	0.000256	61.906950	206.356499
Mg 279.553 {121}	12/03/2010 13:18:45	12/03/2010 13:18:45	Linear	None	0.000521	0.000354	0.000000	1.000000	0.999870	0.000151	0.085664	0.285547
Mg 280.270 {120}	12/06/2010 13:53:25	12/03/2010 13:34:58	Linear	1/Conc	0.000271	0.000216	0.000000	1.000000	0.996154	0.003446	0.184356	0.614520
Mn 257.610 {131}	12/03/2010 13:34:58	12/03/2010 13:34:58	Linear	1/Conc	0.000031	0.000116	0.000000	1.000000	0.999967	0.000004	0.544024	1.813415
Mn 259.373 {130}	12/03/2010 13:40:52	12/03/2010 13:40:52	Linear	1/Conc	-0.000007	0.000065	0.000000	1.000000	0.999918	0.000395	0.789048	2.630161
Mo 202.030 {467}	12/03/2010 13:29:14	12/03/2010 13:29:14	Linear	None	0.000004	0.000009	0.000000	1.000000	0.999999	0.000005	0.896640	2.988798
Mo 203.844 {465}	12/03/2010 13:29:14	12/03/2010 13:29:14	Linear	None	0.000008	0.000004	0.000000	1.000000	1.000000	0.000002	1.850950	6.169835
Mo 204.598 {465}	12/03/2010 13:34:58	12/03/2010 13:34:58	Linear	1/Conc	0.000003	0.000007	0.000000	1.000000	0.999949	0.000002	1.394092	4.646972
Ni 221.647 {452}	12/03/2010 13:34:58	12/03/2010 13:34:58	Linear	1/Conc	0.000004	0.000030	0.000000	1.000000	0.999895	0.000021	0.537311	1.791036
Ni 231.604 {445}	12/06/2010 14:31:10	12/03/2010 13:29:14	Linear	1/Conc	-0.000002	0.000028	0.000000	1.000000	0.999336	0.000002	0.494329	1.647764
Pb 216.999 {455}	12/03/2010 13:40:52	12/03/2010 13:40:52	Full Fit	None	0.000013	0.000001	0.000000	0.970000	1.000000	0.000000	10.791424	35.971414
Pb 220.353 {453}	12/03/2010 13:29:14	12/03/2010 13:29:14	Linear	1/Conc	-0.000010	0.000008	0.000000	1.000000	0.999804	0.000000	2.072715	6.909051
Sb 206.833 {463}	12/03/2010 13:34:58	12/03/2010 13:34:58	Linear	1/Conc	0.000002	0.000002	0.000000	1.000000	0.999963	0.000000	5.027101	16.757005
Sb 217.581 {455}	12/03/2010 13:34:59	12/03/2010 13:34:59	Linear	1/Conc	-0.000014	0.000001	0.000000	1.000000	0.998781	0.000000	22.755935	75.853116
Se 196.090 {472}	12/03/2010 13:34:59	12/03/2010 13:34:59	Linear	1/Conc	0.000008	0.000001	0.000000	1.000000	0.999175	0.000000	10.989014	36.630047
Se 206.279 {463}	12/03/2010 13:34:59	12/03/2010 13:34:59	Linear	None	0.000000	0.000000	0.000000	1.000000	0.999998	0.000003	54.697681	182.325602
Tl 190.856 {477}	12/03/2010 13:34:59	12/03/2010 13:34:59	Linear	1/Conc	-0.000006	0.000001	0.000000	1.000000	0.999550	0.000000	7.817368	26.057894
Tl 276.787 {122}	12/03/2010 13:34:59	12/03/2010 13:34:59	Linear	None	0.000022	0.000000	0.000000	1.000000	0.999986	0.000019	137.066887	456.889623

Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)	Correlation	Std Error of Est	Predicted MDL	Predicted MQL
V 290.882 {116}	12/03/2010 13:34:59	12/03/2010 13:34:59	Linear	1/Conc	0.001479	0.000132	0.000000	1.000000	0.999857	0.000406	0.817399	2.724663
V 292.402 {115}	12/03/2010 13:29:14	12/03/2010 13:29:14	Linear	None	-0.000027	0.000136	0.000000	1.000000	0.999999	0.000070	0.883468	2.944893
Zn 206.200 {463}	12/03/2010 13:40:52	12/03/2010 13:40:52	Full Fit	None	-0.000032	0.000024	-0.000000	0.970000	1.000000	0.000000	0.343458	1.144860
Zn 213.856 {458}	12/03/2010 13:29:14	12/03/2010 13:29:14	Linear	1/Conc	0.000116	0.000038	0.000000	1.000000	0.999957	0.000002	0.248361	0.827870
Y 360.073 { 94}*	12/03/2010 12:40:18	12/03/2010 12:40:18	Linear	None	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	-1.000000	-1.000000
B 249.773 {135}	12/03/2010 13:29:14	12/03/2010 13:29:14	Linear	None	0.000043	0.000007	0.000000	1.000000	0.999864	0.000072	6.303696	21.012320
Li 670.784 { 50}	12/03/2010 13:29:14	12/03/2010 13:29:14	Linear	None	0.001090	0.000179	0.000000	1.000000	0.999995	0.000244	2.062434	6.874779
Na 330.298 {102}	12/03/2010 13:46:44	12/03/2010 13:46:44	Linear	1/Conc	0.000011	0.000000	0.000000	1.000000	1.000000	0.000000	3383.86811	11279.5603
Si 251.611 {134}	12/03/2010 13:29:14	12/03/2010 13:29:14	Linear	None	0.000114	0.000000	0.000000	1.000000	1.000000	0.000000	575.029642	1916.76547
Sr 407.771 { 83}	12/03/2010 13:34:59	12/03/2010 13:34:59	Linear	1/Conc	-0.001611	0.001126	0.000000	1.000000	0.999644	0.000116	0.121208	0.404025
Ti 334.941 {101}	12/03/2010 13:29:14	12/03/2010 13:29:14	Linear	1/Conc	0.000091	0.000081	0.000000	1.000000	0.999912	0.000005	1.050606	3.502021

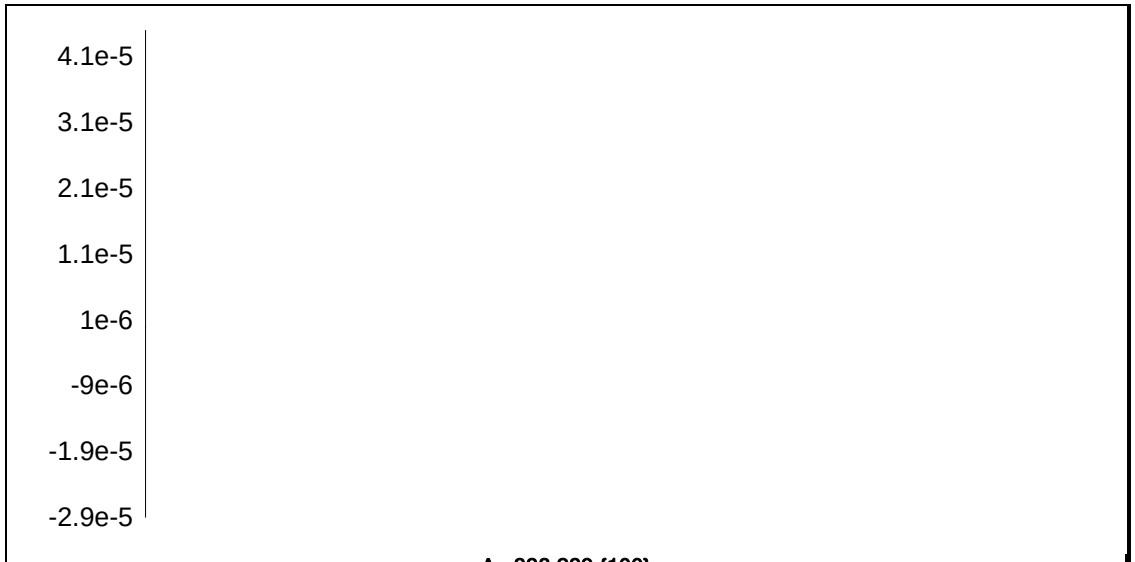


Ag 328.068 {103}

Date of Fit:	12/03/2010 13:24:08	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000262	Re-Slope:	1.000000
A1 (Gain):	0.000218	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999969	Status:	OK.
Std Error of Est:	0.000086		
Predicted MDL:	0.782889		
Predicted MQL:	2.609630		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.01178	-.012	.000	.00026	.000	1
CalibStd=100	100.00	100.04	.041	.041	.02206	.000	1
CalibStd=10	10.000	9.6377	-.362	-3.62	.00236	.000	1
CalibStd=1	1.0000	1.5368	.537	53.7	.00060	.000	1
CalibStd=5	5.0000	4.7962	-.204	-4.08	.00131	.000	1

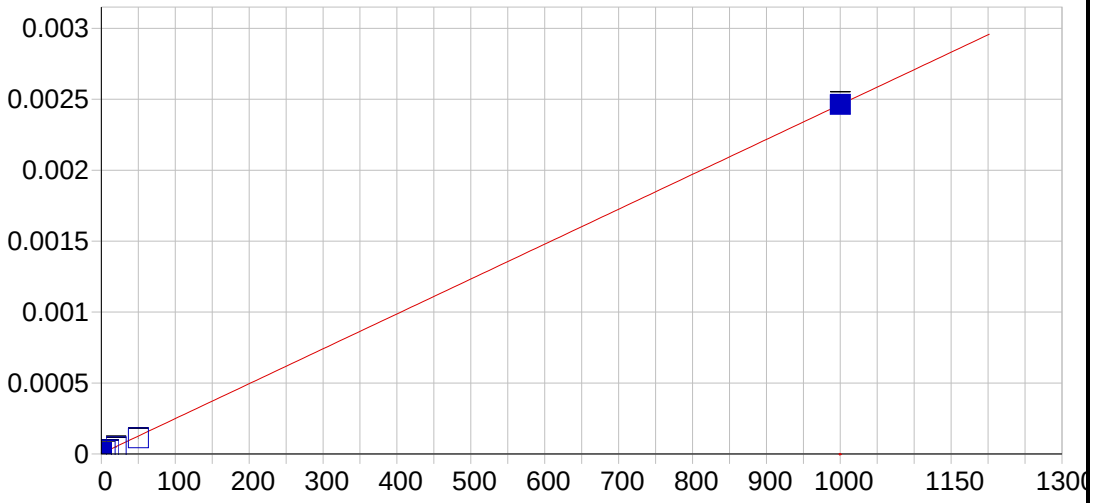


Ag 338.289 {100}

Date of Fit:	12/03/2010 12:40:18	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning Zero Gain
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00001	.000	1

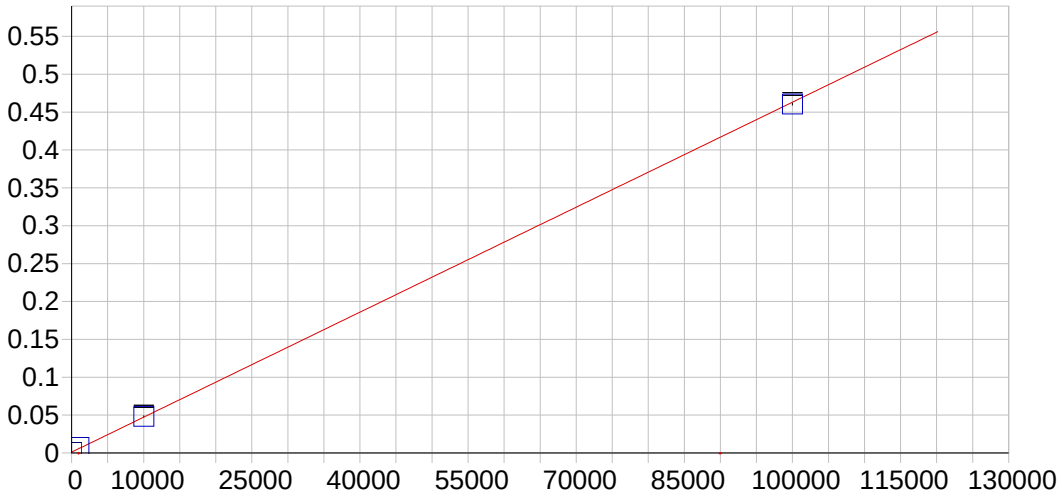


Al 167.079 {502}

Date of Fit:	12/03/2010 13:29:13	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000003	Re-Slope:	1.000000
A1 (Gain):	0.000002	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999968	Status:	OK.
Std Error of Est:	0.000009		
Predicted MDL:	2.185326		
Predicted MQL:	7.284421		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	3.0369	3.04	.000	.00001	.000	1
CalibStd=100	1000.0	1000.3	.286	.029	.00247	.000	1
CalibStd=20	20.000	18.978	-1.02	-5.11	.00005	.000	1
CalibStd=10	10.000	10.269	.269	2.69	.00003	.000	1
CalibStd=5	5.0000	8.1079	3.11	62.2	.00002	.000	1
CalibStd=50	50.000	44.322	-5.68	-11.4	.00011	.000	1

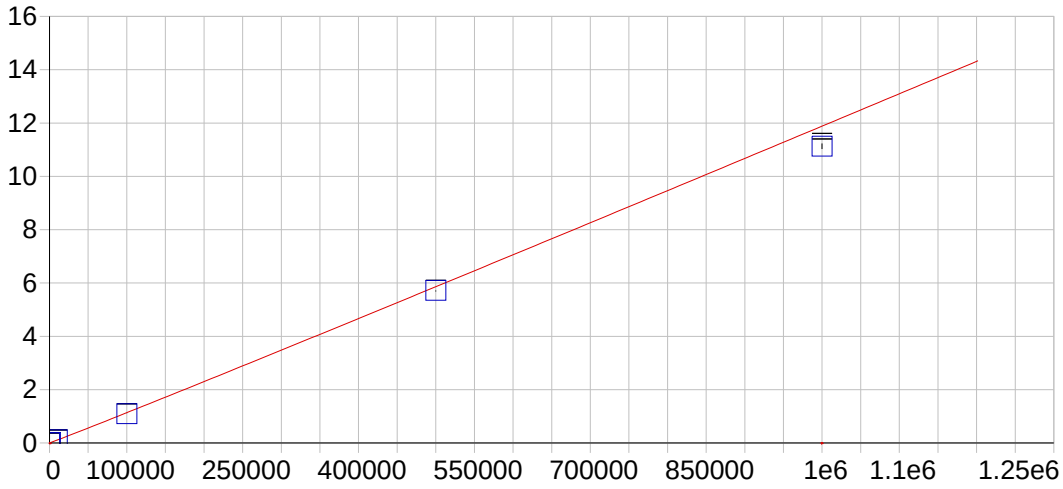


Al 309.271 {109}

Date of Fit:	12/03/2010 13:46:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001036	Re-Slope:	1.000000
A1 (Gain):	0.000005	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999458	Status:	OK.
Std Error of Est:	0.000072		
Predicted MDL:	23.295930		
Predicted MQL:	77.653099		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.35144	-.351	.000	.00103	.000	1
CalibStd=100	10000.	10212.	212.	2.12	.04822	.001	1
CalibStd=100	100000.	99453.	-547.	-.547	.46059	.002	1
CalibStd=100	1000.0	1335.8	336.	33.6	.00721	.000	1

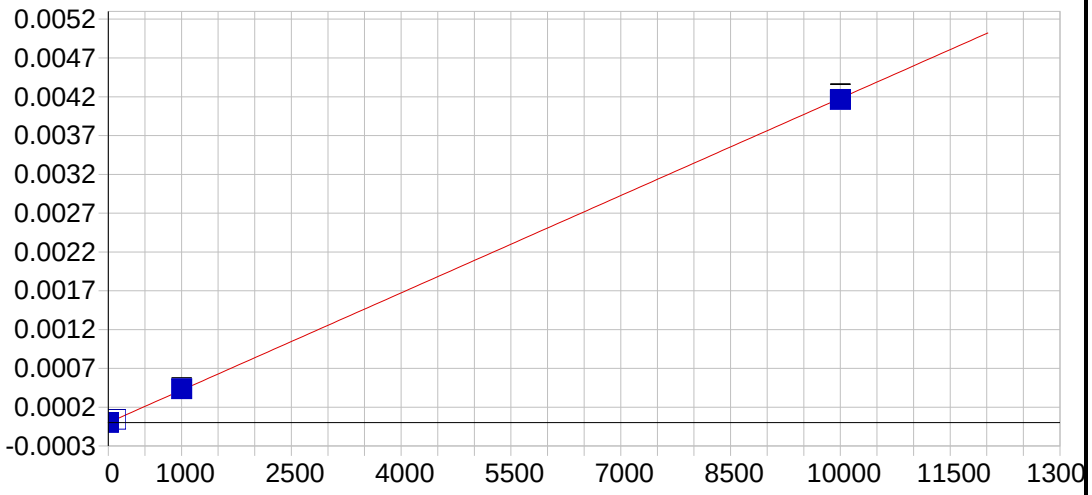


Al 396.152 { 85}

Date of Fit:	12/03/2010 13:58:49	Type of Fit:	Full Fit	Weighting:	1/Conc

A0 (Offset):	0.000191	Re-Slope:	1.000000
A1 (Gain):	0.000009	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.020000		
Correlation:	0.999904	Status:	OK.
Std Error of Est:	0.000342		
Predicted MDL:	17.981099		
Predicted MQL:	59.936998		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00019	.000	1
CalibStd=100	100000.	96538.	-3460.	-3.46	1.0950	.004	1
CalibStd-100	1000000.	937680.	-62300.	-6.23	11.129	.106	1
CalibStd=500	500000.	488420.	-11600.	-2.32	5.7217	.001	1
CalibStd=100	1000.0	1442.4	442.	44.2	.01523	.000	1
CalibStd=100	10000.	10415.	415.	4.15	.11316	.003	1

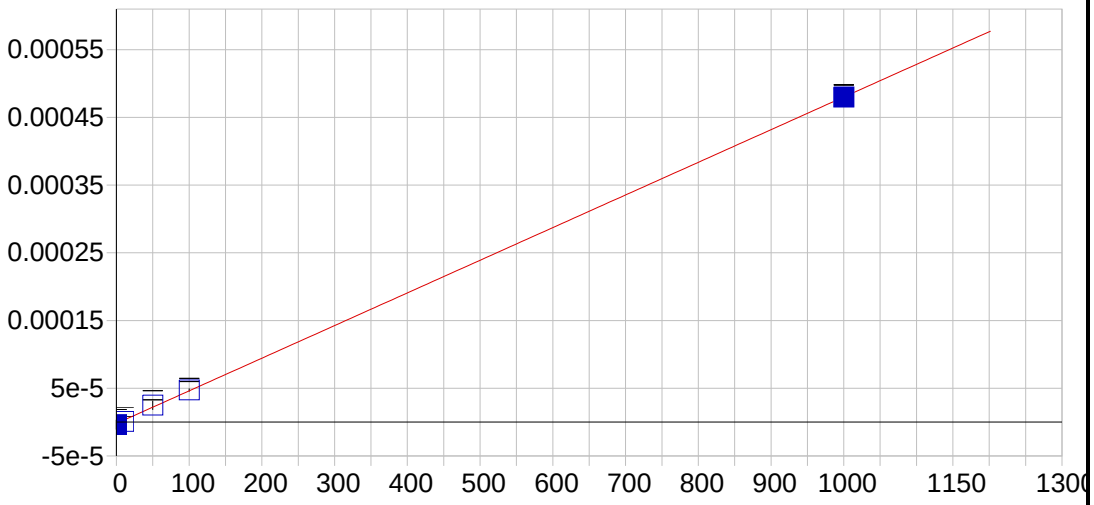


As 189.042 {479}

Date of Fit:	12/03/2010 13:34:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000001	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999916	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	15.294384		
Predicted MQL:	50.981279		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00434	-.004	.000	.00000	.000	1
CalibStd=100	1000.0	1041.0	41.0	4.10	.00044	.000	1
CalibStd=100	10000.	9958.4	-41.6	-.416	.00416	.000	1
CalibStd=100	100.00	100.66	.658	.658	.00004	.000	1

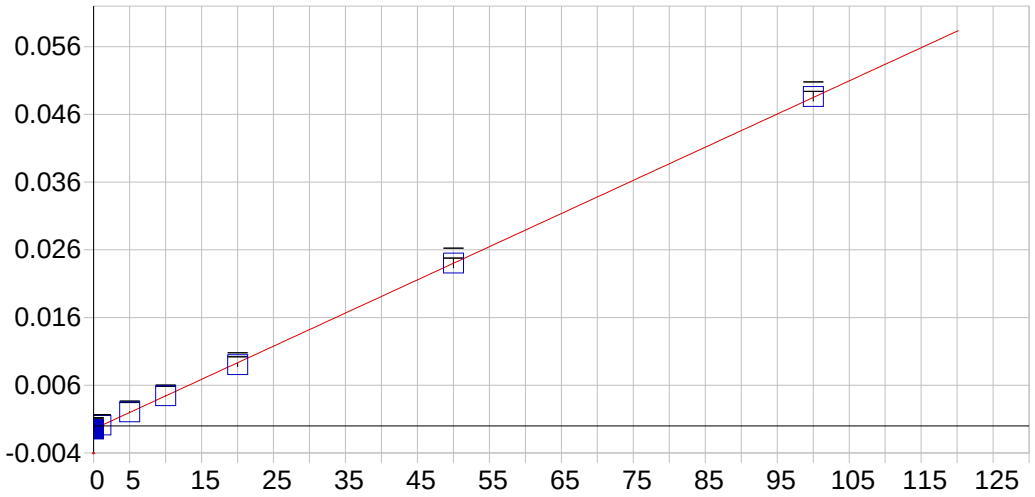


As 193.759 {474}

Date of Fit:	12/03/2010 13:29:13	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-0.000002	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999952	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	15.455569		
Predicted MQL:	51.518562		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-3.5778	-3.58	.000	.00000	.000	1
CalibStd=100	1000.0	999.50	-.498	-.050	.00048	.000	1
CalibStd=50	50.000	55.804	5.80	11.6	.00002	.000	1
CalibStd=10	10.000	5.7671	-4.23	-42.3	.00000	.000	1
CalibStd=100	100.00	102.50	2.50	2.50	.00005	.000	1

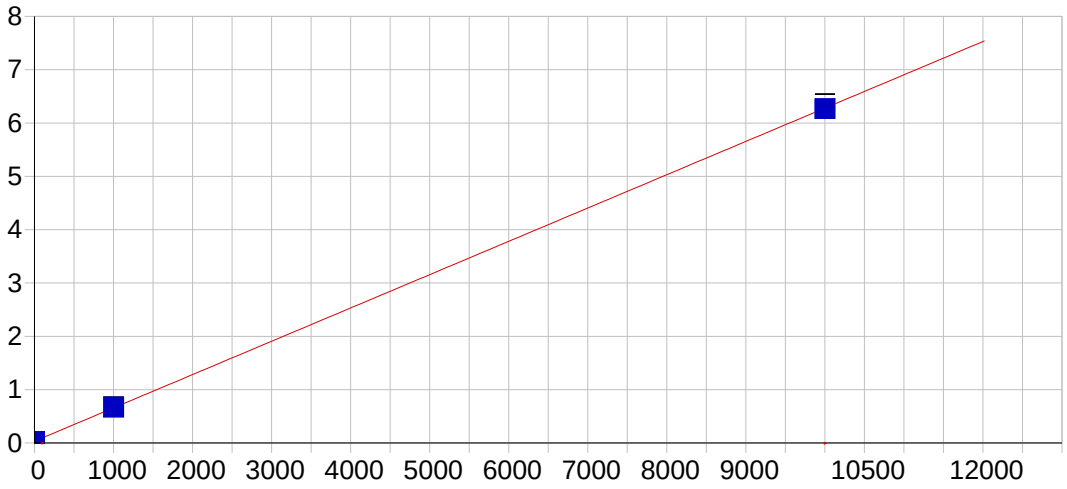


Ba 455.403 { 74}

Date of Fit:	12/03/2010 13:24:08	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000476	Re-Slope:	1.000000
A1 (Gain):	0.000490	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999844	Status:	OK.
Std Error of Est:	0.000004		
Predicted MDL:	0.515510		
Predicted MQL:	1.718368		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00019	.000	.000	-.00048	.000	1
CalibStd=50	50.000	50.020	.020	.040	.02402	.001	1
CalibStd=10	10.000	10.031	.031	.315	.00444	.000	1
CalibStd=20	20.000	19.371	-.629	-3.14	.00901	.000	1
CalibStd=100	100.00	100.23	.228	.228	.04861	.001	1
CalibStd=1	1.0000	1.1786	.179	17.9	.00010	.000	1
CalibStd=5	5.0000	5.1709	.171	3.42	.00206	.000	1

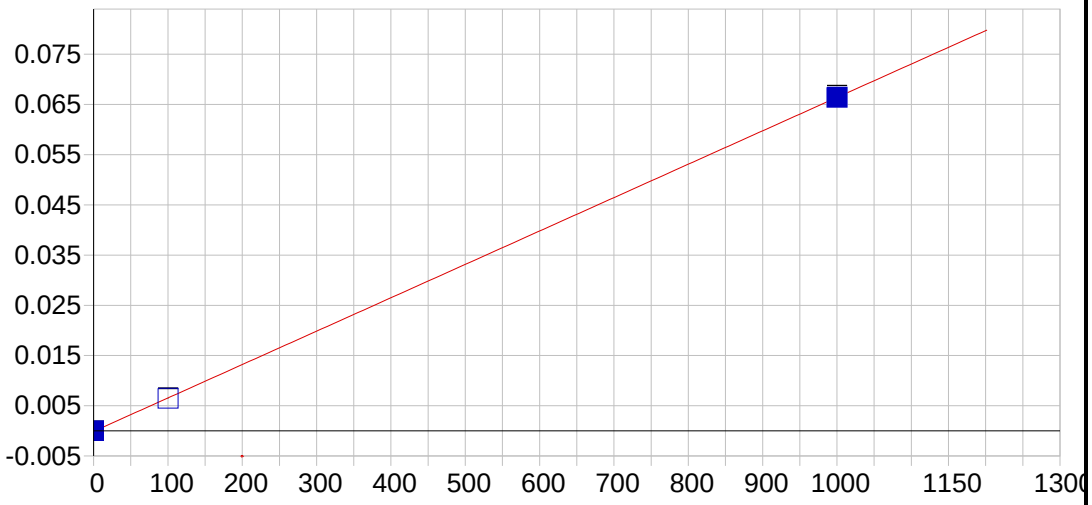


Ba 493.409 { 68}

Date of Fit:	12/03/2010 13:34:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.033137	Re-Slope:	1.000000
A1 (Gain):	0.000625	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999983	Status:	OK.
Std Error of Est:	0.000661		
Predicted MDL:	0.790795		
Predicted MQL:	2.635984		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.01657	-.017	.000	.03313	.000	1
CalibStd=100	1000.0	1018.4	18.4	1.84	.66932	.002	1
CalibStd=100	10000.	9981.6	-18.4	-.184	6.2684	.083	1

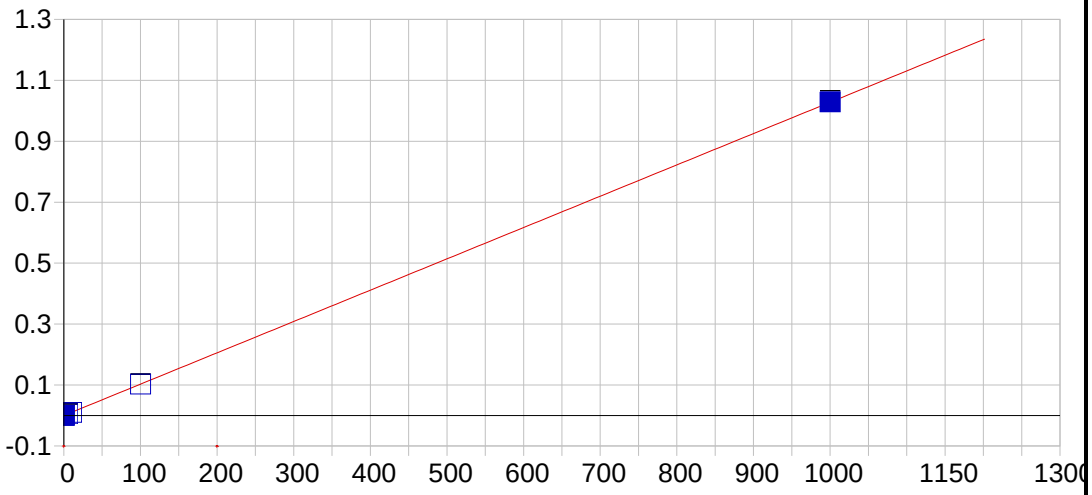


Be 234.861 {144}

Date of Fit:	12/03/2010 13:29:13	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-0.000100	Re-Slope:	1.000000
A1 (Gain):	0.000067	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999997	Status:	OK.
Std Error of Est:	0.000124		
Predicted MDL:	0.475079		
Predicted MQL:	1.583595		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	1.2448	1.24	.000	-.00002	.000	1
CalibStd=100	1000.0	1000.1	.138	.014	.06643	.000	1
CalibStd=100	100.00	98.617	-1.38	-1.38	.00646	.000	1

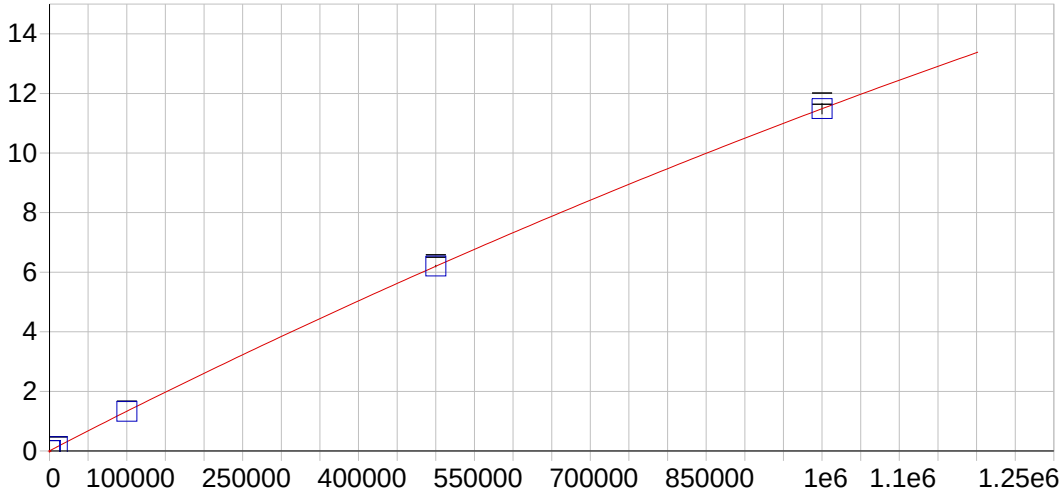


Be 313.042 {108}

Date of Fit:	12/03/2010 13:29:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000050	Re-Slope:	1.000000
A1 (Gain):	0.001028	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999970	Status:	OK.
Std Error of Est:	0.000005		
Predicted MDL:	0.108934		
Predicted MQL:	0.363113		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00005	.000	.000	.00005	.000	1
CalibStd=10	10.000	9.4825	-.518	-5.18	.00980	.000	1
CalibStd=100	100.00	99.606	-.394	-.394	.10245	.001	1
CalibStd=0.5	.50000	.63447	.134	26.9	.00070	.000	1
CalibStd=5	5.0000	4.9422	-.058	-1.16	.00513	.000	1
CalibStd=0.2	.25000	.24993	.000	-.028	.00031	.000	1
CalibStd=100	1000.0	1000.8	.835	.084	1.0289	.004	1

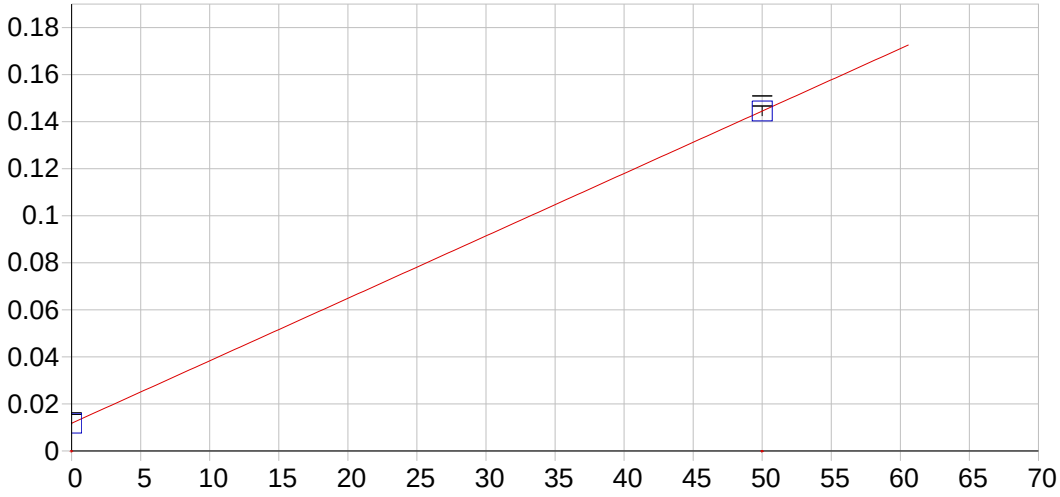


Ca 317.933 {106}

Date of Fit:	12/03/2010 13:58:49	Type of Fit:	Full Fit	Weighting:	1/Conc

A0 (Offset):	0.003803	Re-Slope:	1.000000
A1 (Gain):	0.000015	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	0.990000		
Correlation:	0.999965	Status:	OK.
Std Error of Est:	0.000220		
Predicted MDL:	3.694505		
Predicted MQL:	12.315015		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00380	.000	1
CalibStd=100	10000.	9817.8	-182.	-1.82	.13870	.004	1
CalibStd=100	100000.	99603.	-397.	-.397	1.3256	.005	1
CalibStd=500	500000.	500550.	546.	.109	6.2054	.041	1
CalibStd-100	1000000.	999730.	-267.	-.027	11.486	.187	1
CalibStd=100	1000.0	1280.0	280.	28.0	.02177	.000	1

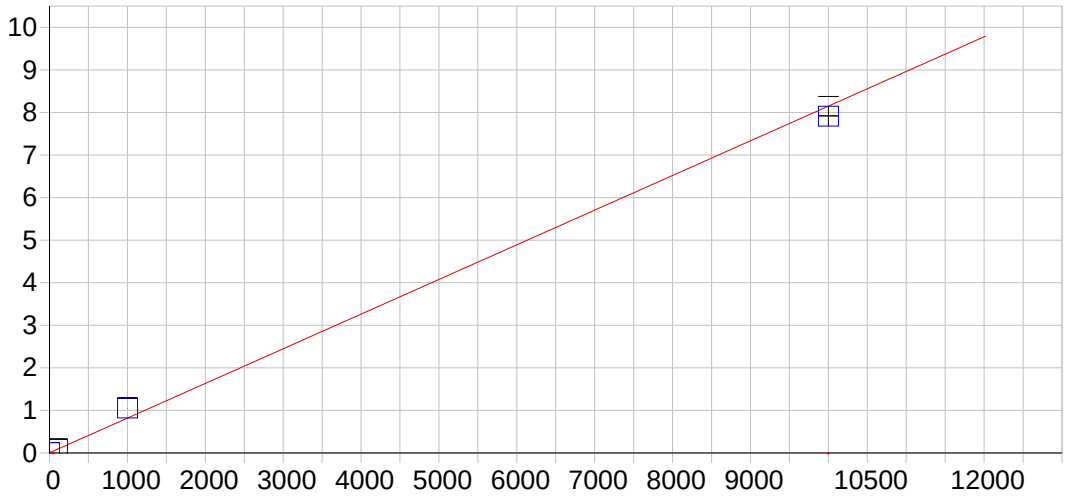


Ca 393.366 { 86}

Date of Fit:	12/06/2010 13:55:09	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.011790	Re-Slope:	1.000000
A1 (Gain):	0.002655	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.054122		
Predicted MQL:	0.180407		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.01179	.000	1
CalibStd=50	50.000	50.000	.000	.000	.14452	.002	1

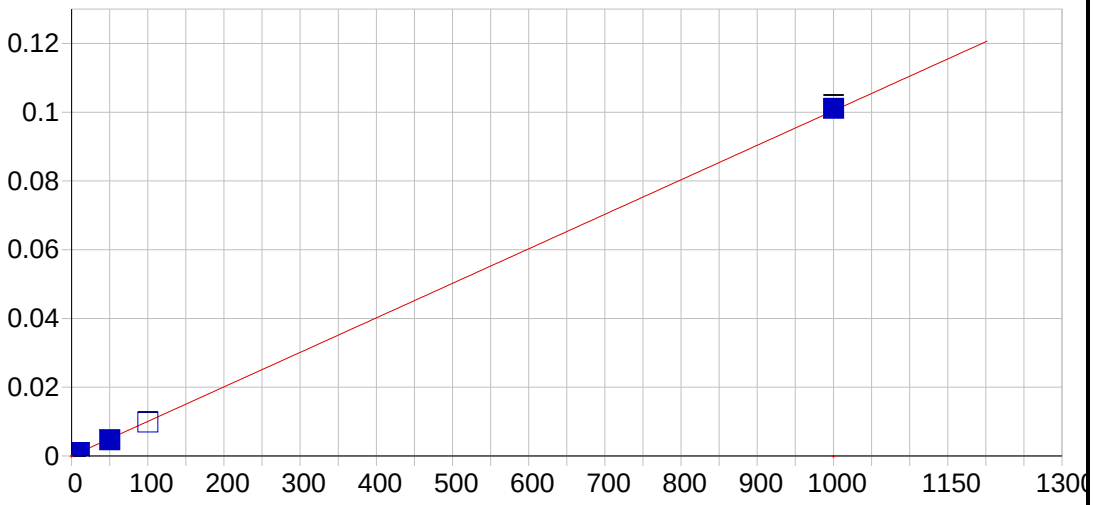


Ca 396.847 { 85}

Date of Fit:	12/06/2010 13:58:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004308	Re-Slope:	1.000000
A1 (Gain):	0.000814	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.995910	Status:	OK.
Std Error of Est:	0.003479		
Predicted MDL:	0.124558		
Predicted MQL:	0.415194		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.03263	-.033	.000	.00428	.000	1
CalibStd=100	10000.	9706.3	-294.	-2.94	7.9099	.227	1
CalibStd=100	100.00	106.89	6.89	6.89	.09136	.001	1
CalibStd=100	1000.0	1286.8	287.	28.7	1.0524	.003	1

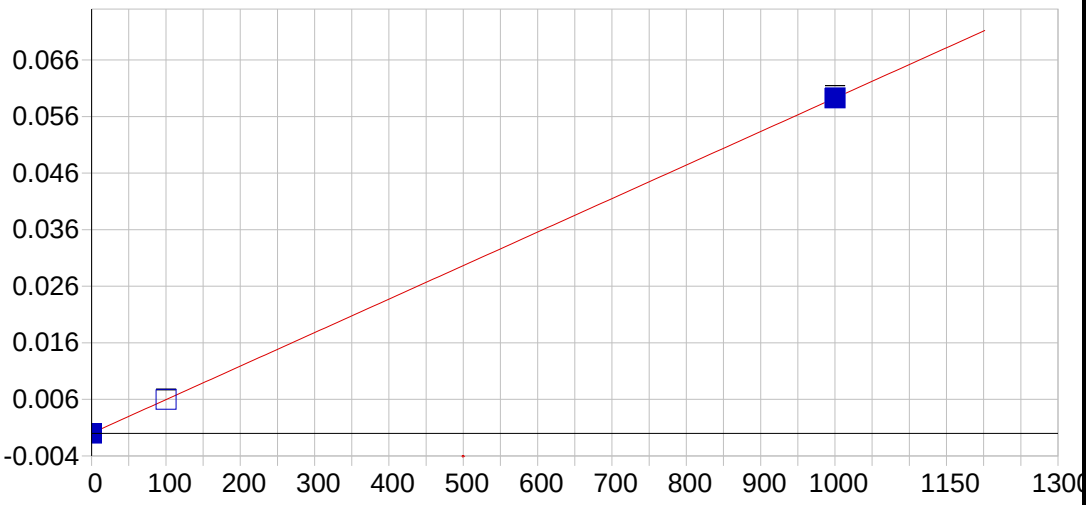


Cd 226.502 {449}

Date of Fit:	12/03/2010 13:29:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000006	Re-Slope:	1.000000
A1 (Gain):	0.000100	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999812	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	0.170774		
Predicted MQL:	0.569248		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00015	.000	.000	.00001	.000	1
CalibStd=50	50.000	46.349	-3.65	-7.30	.00466	.000	1
CalibStd=1	1.0000	.86191	-.138	-13.8	.00009	.000	1
CalibStd=0.5	.50000	.35253	-.147	-29.5	.00004	.000	1
CalibStd=5	5.0000	4.8804	-.120	-2.39	.00050	.000	1
CalibStd=0.2	.25000	.24999	.000	-.005	.00003	.000	1
CalibStd=100	100.00	97.807	-2.19	-2.19	.00983	.000	1
CalibStd=10	10.000	9.6280	-.372	-3.72	.00097	.000	1
CalibStd=100	1000.0	1006.6	6.62	.662	.10109	.001	1

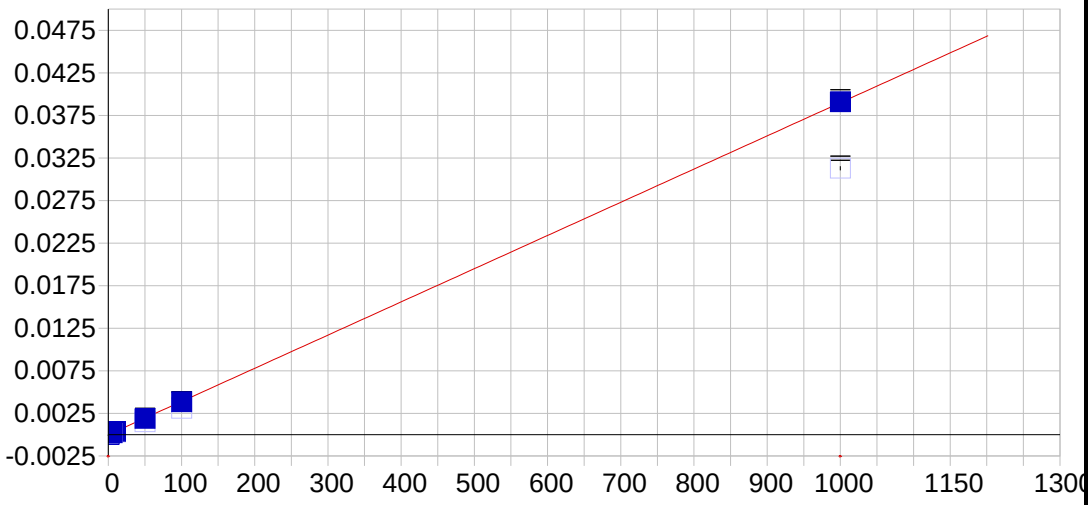


Cd 228.802 {447}

Date of Fit:	12/03/2010 13:29:13	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000031	Re-Slope:	1.000000
A1 (Gain):	0.000059	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000028		
Predicted MDL:	0.246135		
Predicted MQL:	0.820448		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.31870	-.319	.000	.00001	.000	1
CalibStd=100	1000.0	999.96	-.035	-.004	.05927	.000	1
CalibStd=100	100.00	100.35	.354	.354	.00598	.000	1

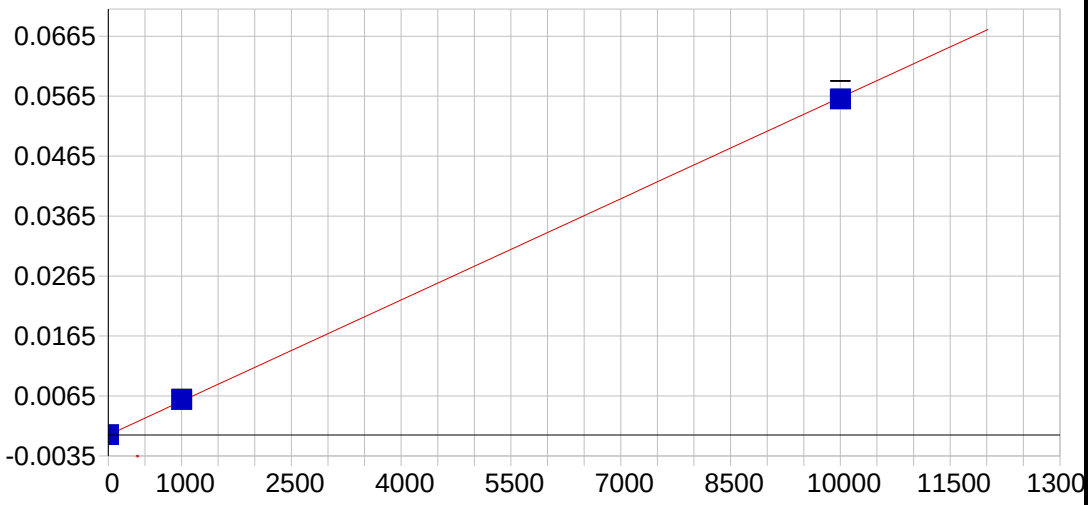


Co 228.616 {447}

Date of Fit:	12/03/2010 13:29:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000003	Re-Slope:	1.000000
A1 (Gain):	0.000039	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999959	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.316067		
Predicted MQL:	1.053556		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00004	.000	.000	.00000	.000	1
CalibStd=50	50.000	48.678	-1.32	-2.64	.00151	.000	1
CalibStd=10	10.000	9.8795	-.120	-1.20	.00030	.000	1
CalibStd=5	5.0000	5.0604	.060	1.21	.00016	.000	1
CalibStd=1	1.0000	1.0719	.072	7.19	.00004	.000	1
CalibStd=100	100.00	98.863	-1.14	-1.14	.00307	.000	1
CalibStd=100	1000.0	1002.4	2.43	.243	.03130	.000	1

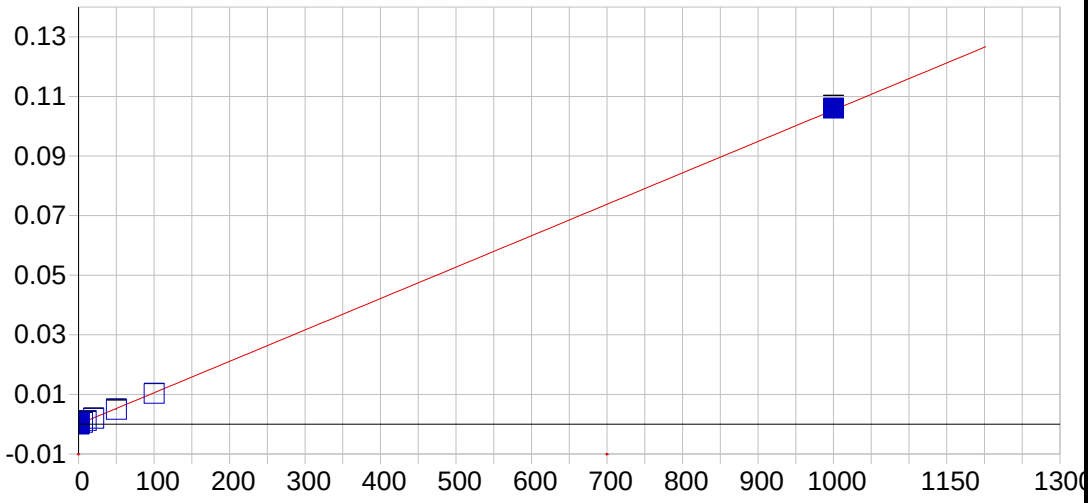


Co 238.892 {141}

Date of Fit:	12/03/2010 13:34:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000006	Re-Slope:	1.000000
A1 (Gain):	0.000006	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999901	Status:	OK.
Std Error of Est:	0.000014		
Predicted MDL:	5.341604		
Predicted MQL:	17.805347		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.03992	-.040	.000	.00001	.000	1
CalibStd=100	1000.0	1044.4	44.4	4.44	.00588	.000	1
CalibStd=100	10000.	9955.6	-44.4	-.444	.05597	.001	1

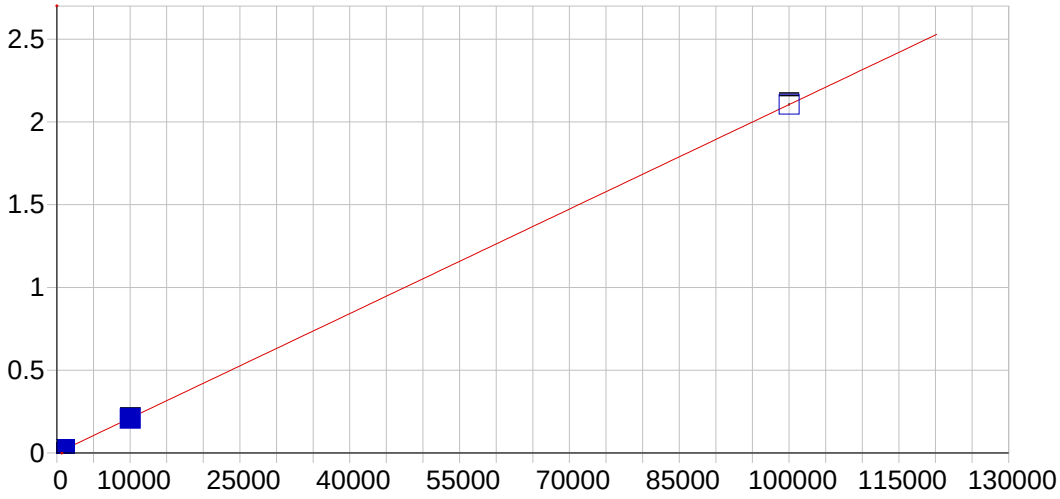


Cr 267.716 {126}

Date of Fit:	12/03/2010 13:29:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000011	Re-Slope:	1.000000
A1 (Gain):	0.000105	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999532	Status:	OK.
Std Error of Est:	0.000004		
Predicted MDL:	0.761934		
Predicted MQL:	2.539780		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00076	-.001	.000	-.00001	.000	1
CalibStd=10	10.000	10.064	.064	.636	.00105	.000	1
CalibStd=5	5.0000	5.6027	.603	12.1	.00058	.000	1
CalibStd=1	1.0000	1.7899	.790	79.0	.00018	.000	1
CalibStd=50	50.000	46.736	-3.26	-6.53	.00492	.000	1
CalibStd=100	1000.0	1005.7	5.72	.572	.10603	.001	1
CalibStd=20	20.000	18.531	-1.47	-7.35	.00194	.000	1
CalibStd=100	100.00	97.562	-2.44	-2.44	.01028	.000	1

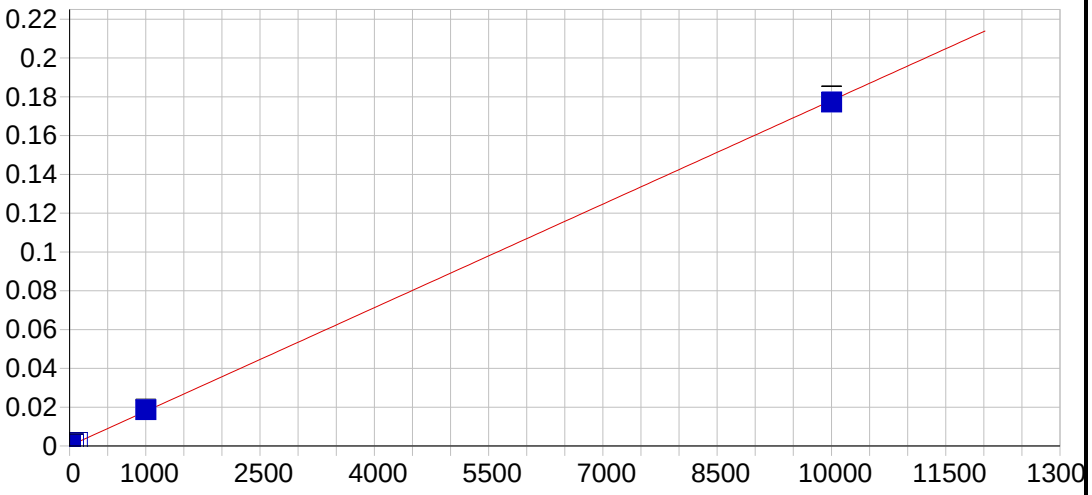


Cr 283.563 {119}

Date of Fit:	12/03/2010 13:40:52	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000069	Re-Slope:	1.000000
A1 (Gain):	0.000021	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999991	Status:	OK.
Std Error of Est:	0.000008		
Predicted MDL:	3.053421		
Predicted MQL:	10.178069		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00230	-.002	.000	.00007	.000	1
CalibStd=50	50.000	50.436	.436	.872	.00113	.000	1
CalibStd=100	100.00	101.57	1.57	1.57	.00221	.000	1
CalibStd=100	1000.0	1030.6	30.6	3.06	.02180	.000	1
CalibStd=100	10000.	9902.3	-97.7	-.977	.20884	.005	1
CalibStd-100	100000.	100070.	65.2	.065	2.1061	.008	1

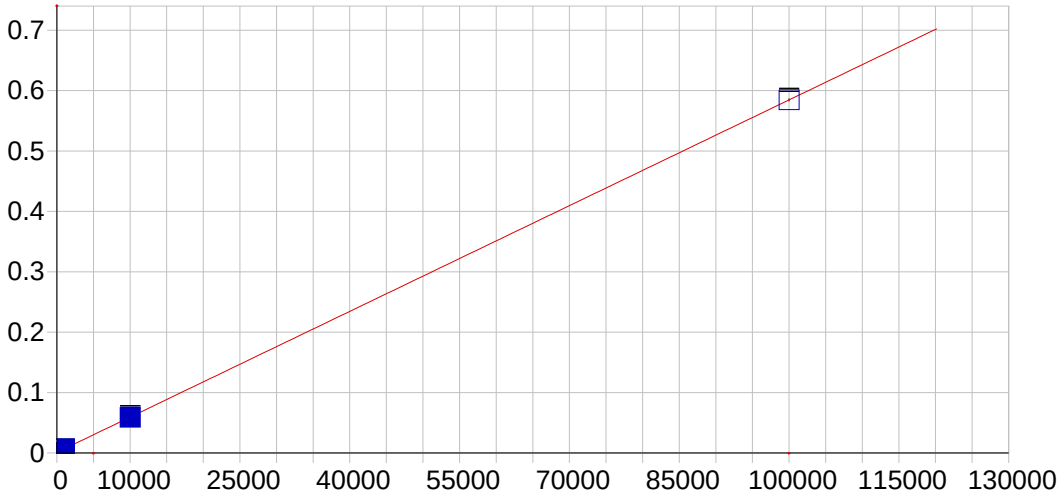


Cu 224.700 {450}

Date of Fit:	12/03/2010 13:34:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000086	Re-Slope:	1.000000
A1 (Gain):	0.000018	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999892	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	0.857844		
Predicted MQL:	2.859479		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00072	-.001	.000	.00009	.000	1
CalibStd=100	1000.0	1044.1	44.1	4.41	.01867	.000	1
CalibStd=50	50.000	49.725	-.275	-.550	.00097	.000	1
CalibStd=100	100.00	103.70	3.70	3.70	.00193	.000	1
CalibStd=5	5.0000	5.6288	.629	12.6	.00019	.000	1
CalibStd=10	10.000	9.4732	-.527	-5.27	.00025	.000	1
CalibStd=100	10000.	9952.4	-47.6	-.476	.17724	.003	1

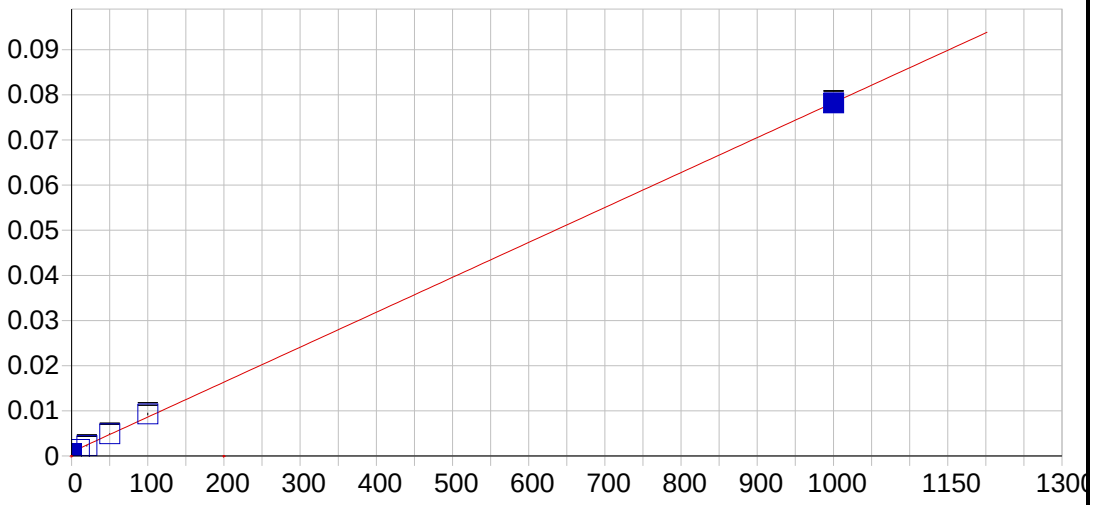


Cu 324.754 {104}

Date of Fit:	12/03/2010 13:40:52	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000943	Re-Slope:	1.000000
A1 (Gain):	0.000006	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000153		
Predicted MDL:	11.840714		
Predicted MQL:	39.469047		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	29.568	29.6	.000	.00112	.000	1
CalibStd=100	10000.	9983.0	-17.0	-.170	.05921	.002	1
CalibStd-100	100000.	100000.	1.85	.002	.58463	.002	1
CalibStd=100	1000.0	985.62	-14.4	-1.44	.00670	.000	1

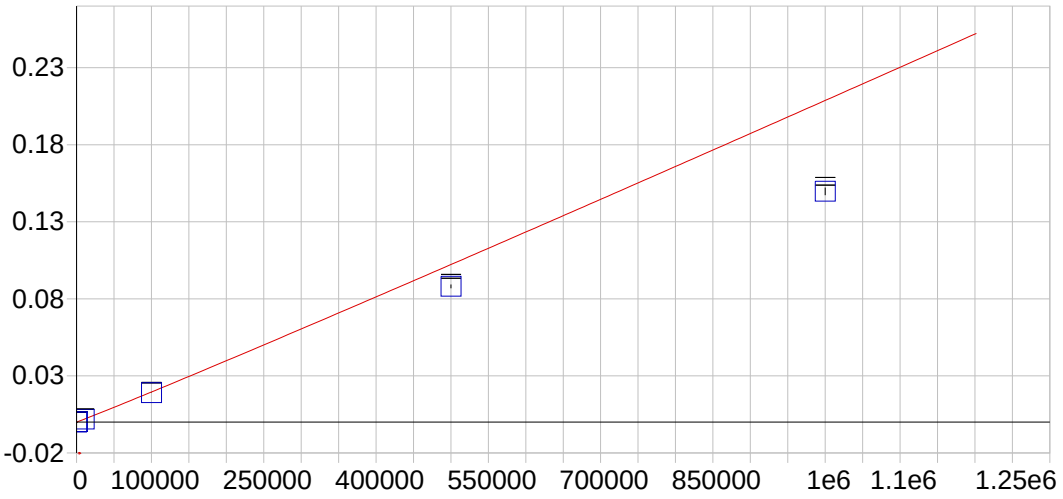


Cu 327.396 {103}

Date of Fit:	12/03/2010 13:29:13	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000881	Re-Slope:	1.000000
A1 (Gain):	0.000077	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999927	Status:	OK.
Std Error of Est:	0.000413		
Predicted MDL:	2.353007		
Predicted MQL:	7.843358		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-4.8142	-4.81	.000	.00051	.000	1
CalibStd=20	20.000	18.110	-1.89	-9.45	.00228	.000	1
CalibStd=50	50.000	52.004	2.00	4.01	.00490	.000	1
CalibStd=100	100.00	108.57	8.57	8.57	.00928	.000	1
CalibStd=10	10.000	7.0220	-2.98	-29.8	.00142	.000	1
CalibStd=100	1000.0	999.11	-.889	-.089	.07819	.000	1

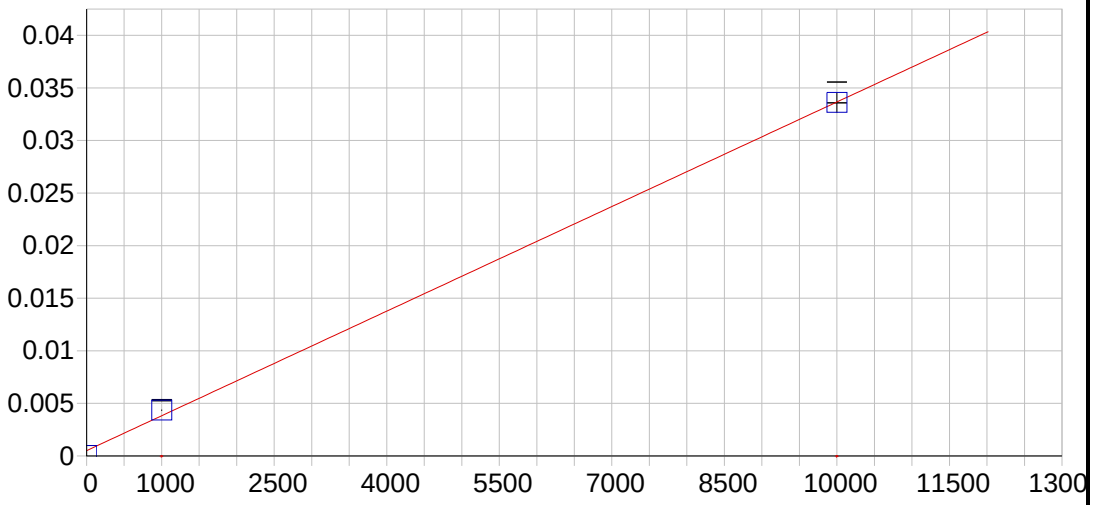


Fe 234.349 {144}

Date of Fit:	12/06/2010 14:05:25	Type of Fit:	Full Fit	Weighting:	None

A0 (Offset):	0.000059	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.030000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000084		
Predicted MDL:	321.366440		
Predicted MQL:	1071.221466		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00003	.000	1
CalibStd=100	10000.	10071.	70.7	.707	.00189	.000	1
CalibStd=500	500000.	432560.	-67400.	-13.5	.08809	.001	1
CalibStd=100	100000.	97786.	-2210.	-2.21	.01909	.000	1
CalibStd-100	1000000.	724380.	-276000.	-27.6	.14978	.002	1
CalibStd=100	1000.0	1118.9	119.	11.9	.00025	.000	1

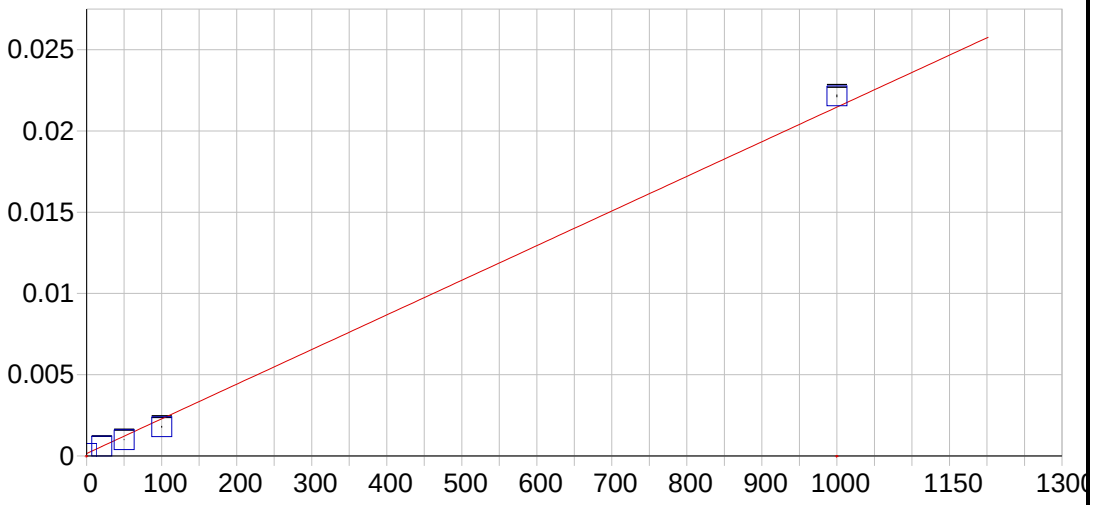


Fe 239.562 {141}

Date of Fit:	12/06/2010 13:50:57	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000509	Re-Slope:	1.000000
A1 (Gain):	0.000003	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999621	Status:	OK.
Std Error of Est:	0.000712		
Predicted MDL:	6.935094		
Predicted MQL:	23.116979		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-143.19	-143.	.000	.00003	.000	1
CalibStd=100	1000.0	1159.1	159.	15.9	.00435	.000	1
CalibStd=100	10000.	9984.1	-15.9	-.159	.03361	.001	1

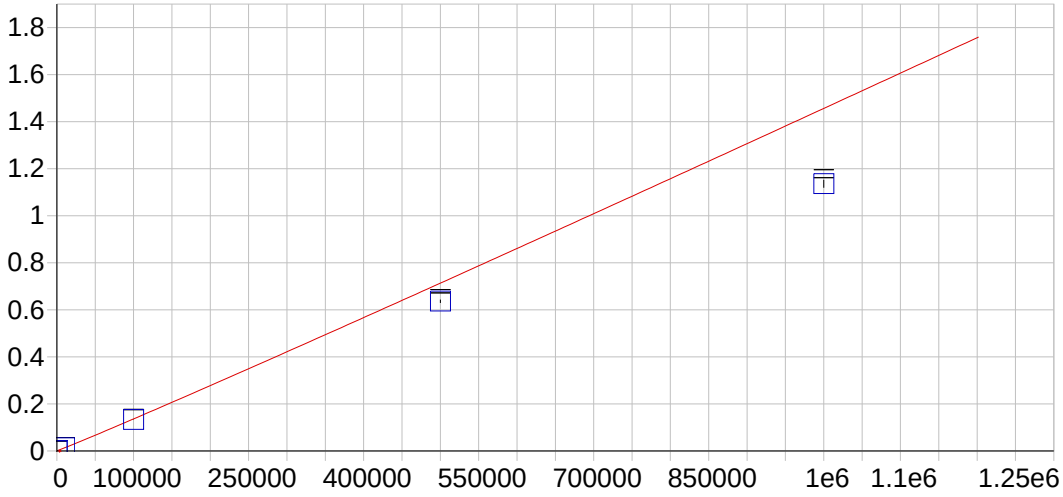


Fe 259.940 {130}

Date of Fit:	12/06/2010 14:07:05	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000152	Re-Slope:	1.000000
A1 (Gain):	0.000021	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.996417	Status:	OK.
Std Error of Est:	0.000011		
Predicted MDL:	2.352812		
Predicted MQL:	7.842707		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00723	.007	.000	.00015	.000	1
CalibStd=100	1000.0	1032.3	32.3	3.23	.02216	.000	1
CalibStd=50	50.000	39.709	-10.3	-20.6	.00100	.000	1
CalibStd=100	100.00	77.134	-22.9	-22.9	.00180	.000	1
CalibStd=20	20.000	20.811	.811	4.05	.00060	.000	1

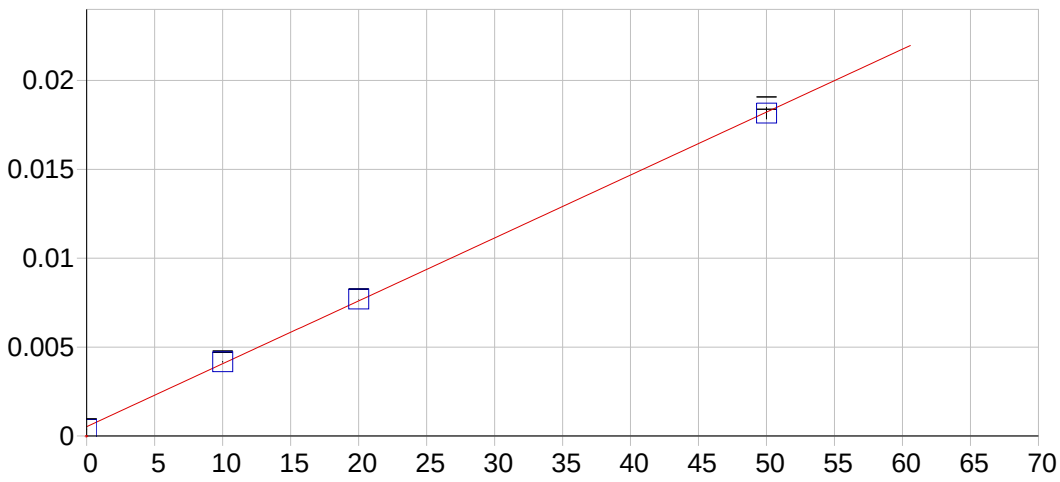


Mg 279.079 {121}

Date of Fit:	12/06/2010 13:52:40	Type of Fit:	Full Fit	Weighting:	None

A0 (Offset):	0.000386	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.030000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000256		
Predicted MDL:	61.906950		
Predicted MQL:	206.356499		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00008	.000	1
CalibStd=100	100000.	98064.	-1940.	-1.94	.13355	.001	1
CalibStd=500	500000.	447620.	-52400.	-10.5	.63655	.007	1
CalibStd=100	10000.	10078.	77.7	.777	.01317	.000	1
CalibStd-100	1000000.	785760.	-214000.	-21.4	1.1361	.017	1
CalibStd=100	1000.0	1101.0	101.	10.1	.00169	.000	1

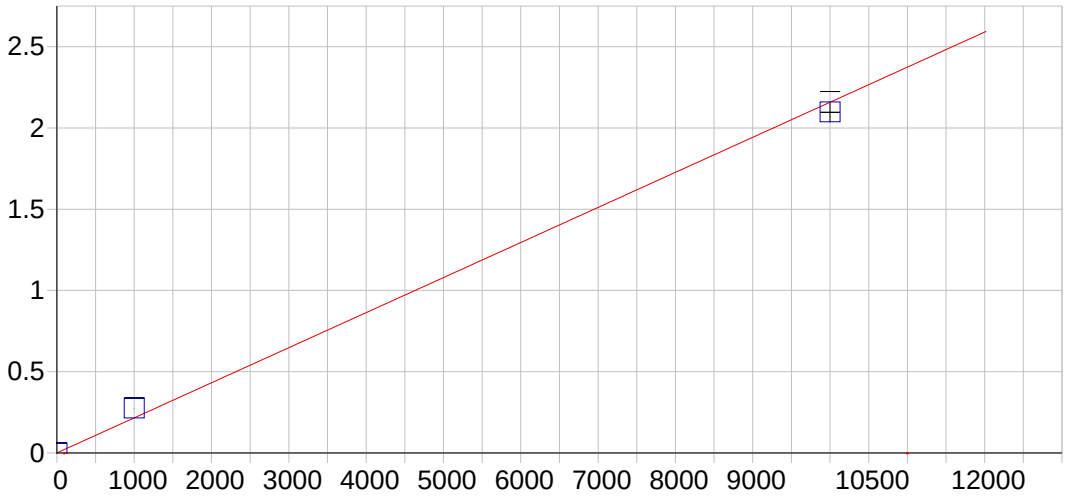


Mg 279.553 {121}

Date of Fit:	12/03/2010 13:18:45	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000521	Re-Slope:	1.000000
A1 (Gain):	0.000354	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999870	Status:	OK.
Std Error of Est:	0.000151		
Predicted MDL:	0.085664		
Predicted MQL:	0.285547		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.40959	-.410	.000	.00038	.000	1
CalibStd=50	50.000	49.831	-.169	-.337	.01816	.000	1
CalibStd=20	20.000	20.265	.265	1.32	.00769	.000	1
CalibStd=10	10.000	10.314	.314	3.14	.00417	.000	1

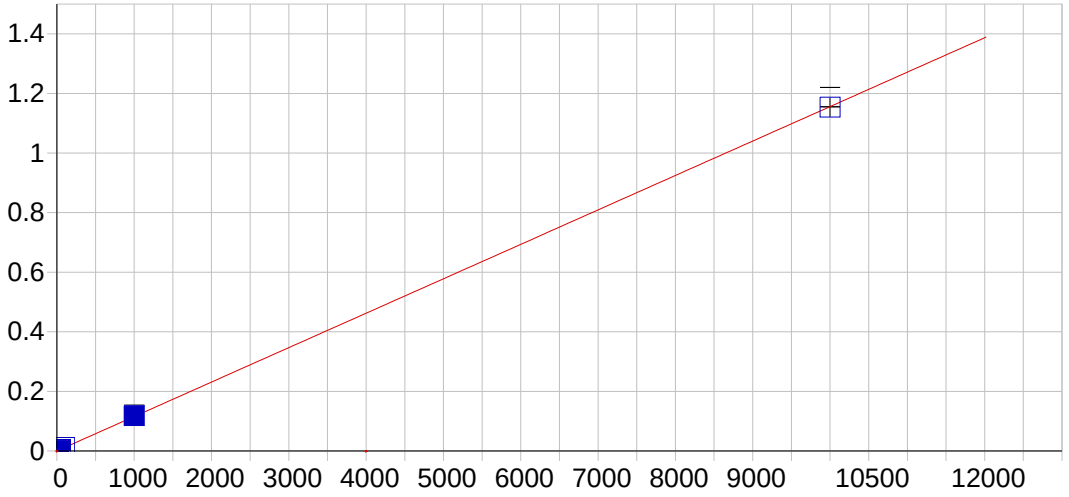


Mg 280.270 {120}

Date of Fit:	12/06/2010 13:53:25	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000271	Re-Slope:	1.000000
A1 (Gain):	0.000216	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.996154	Status:	OK.
Std Error of Est:	0.003446		
Predicted MDL:	0.184356		
Predicted MQL:	0.614520		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.25021	-.250	.000	.00022	.000	1
CalibStd=100	1000.0	1278.0	278.	27.8	.27606	.001	1
CalibStd=100	10000.	9722.0	-278.	-2.78	2.0983	.064	1

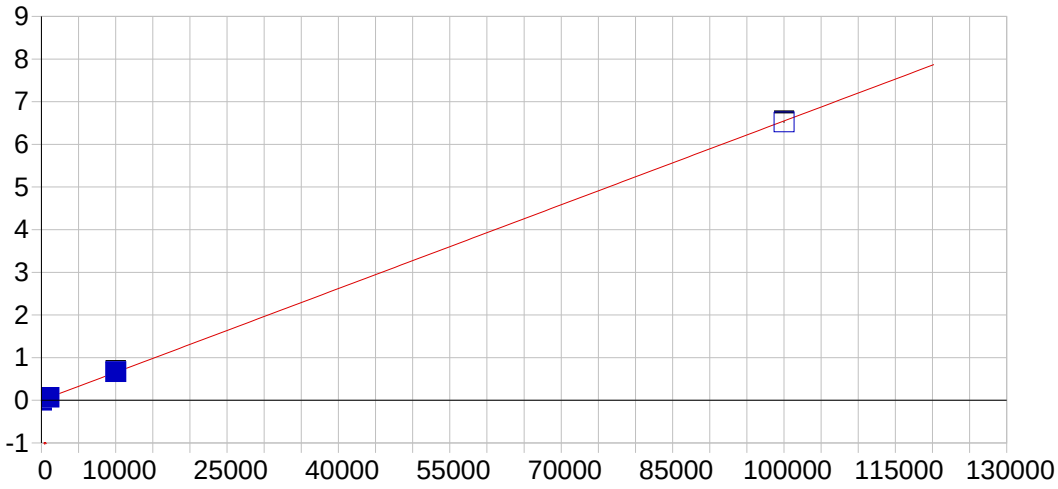


Mn 257.610 {131}

Date of Fit:	12/03/2010 13:34:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000031	Re-Slope:	1.000000
A1 (Gain):	0.000116	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999967	Status:	OK.
Std Error of Est:	0.000004		
Predicted MDL:	0.544024		
Predicted MQL:	1.813415		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00001	.000	.000	.00003	.000	1
CalibStd=10	10.000	9.8111	-.189	-1.89	.00116	.000	1
CalibStd=50	50.000	48.085	-1.91	-3.83	.00559	.000	1
CalibStd=20	20.000	19.084	-.916	-4.58	.00224	.000	1
CalibStd=100	100.00	98.994	-1.01	-1.01	.01147	.000	1
CalibStd=5	5.0000	5.3295	.329	6.59	.00065	.000	1
CalibStd=1	1.0000	1.0194	.019	1.94	.00015	.000	1
CalibStd=100	1000.0	1023.2	23.2	2.32	.11830	.001	1
CalibStd=100	10000.	9980.5	-19.5	-.195	1.1536	.032	1

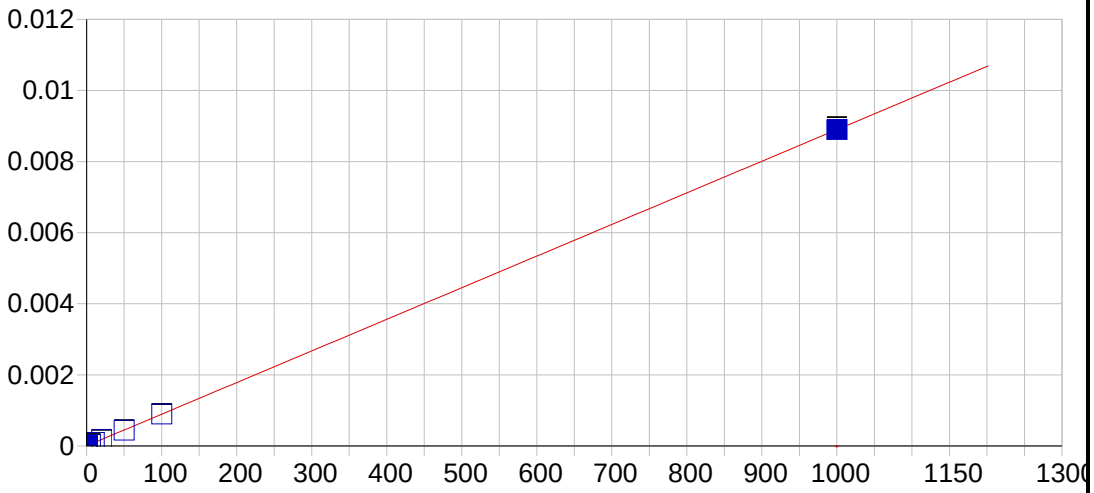


Mn 259.373 {130}

Date of Fit:	12/03/2010 13:40:52	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000007	Re-Slope:	1.000000
A1 (Gain):	0.000065	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999918	Status:	OK.
Std Error of Est:	0.000395		
Predicted MDL:	0.789048		
Predicted MQL:	2.630161		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.12678	-.127	.000	-.00002	.000	1
CalibStd=100	10000.	10239.	239.	2.39	.67386	.016	1
CalibStd-100	100000.	99653.	-347.	-.347	6.5253	.019	1
CalibStd=100	1000.0	1106.3	106.	10.6	.07278	.000	1

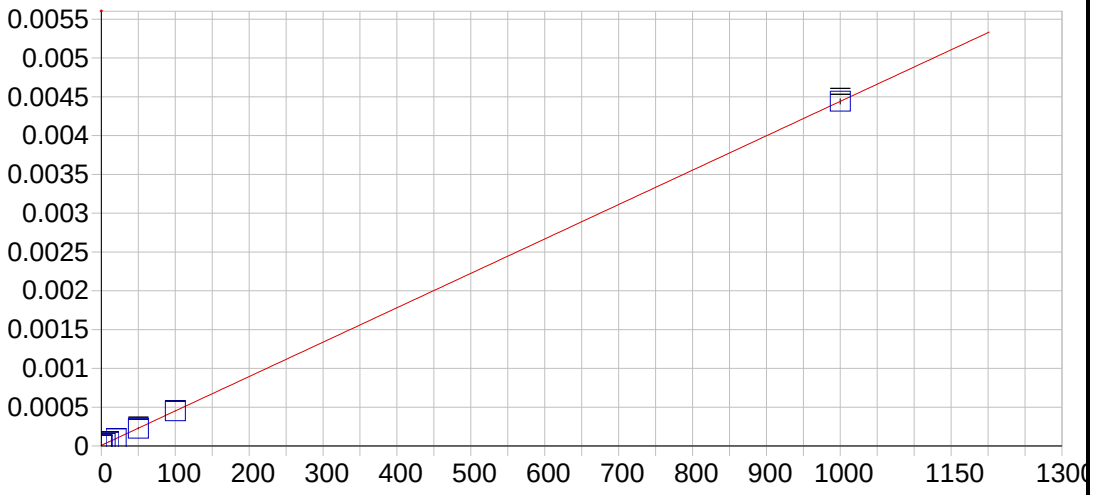


Mo 202.030 {467}

Date of Fit:	12/03/2010 13:29:14	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000004	Re-Slope:	1.000000
A1 (Gain):	0.000009	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999999	Status:	OK.
Std Error of Est:	0.000005		
Predicted MDL:	0.896640		
Predicted MQL:	2.988798		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.55090	.551	.000	.00001	.000	1
CalibStd=50	50.000	49.378	-.622	-1.24	.00044	.000	1
CalibStd=1	1.0000	.71540	-.285	-28.5	.00001	.000	1
CalibStd=20	20.000	19.133	-.867	-4.34	.00017	.000	1
CalibStd=10	10.000	10.449	.449	4.49	.00010	.000	1
CalibStd=100	100.00	100.49	.491	.491	.00090	.000	1
CalibStd=5	5.0000	5.2884	.288	5.77	.00005	.000	1
CalibStd=100	1000.0	999.99	-.006	-.001	.00890	.000	1

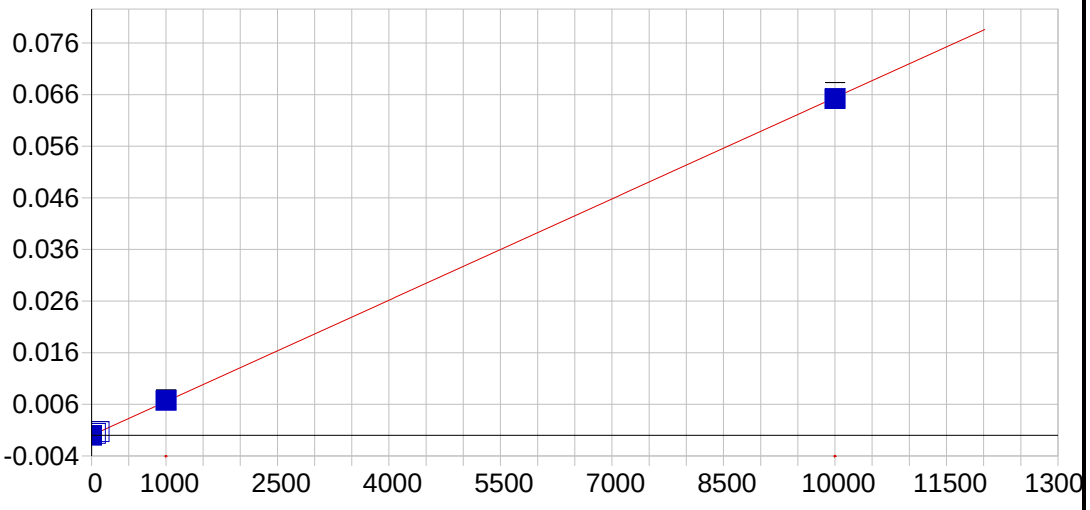


Mo 203.844 {465}

Date of Fit:	12/03/2010 13:29:14	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000008	Re-Slope:	1.000000
A1 (Gain):	0.000004	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	1.850950		
Predicted MQL:	6.169835		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.55285	.553	.000	.00001	.000	1
CalibStd=50	50.000	49.535	-.465	-.931	.00023	.000	1
CalibStd=1	1.0000	.92829	-.072	-7.17	.00001	.000	1
CalibStd=20	20.000	19.638	-.362	-1.81	.00009	.000	1
CalibStd=10	10.000	10.030	.030	.297	.00005	.000	1
CalibStd=100	100.00	100.10	.097	.097	.00045	.000	1
CalibStd=5	5.0000	5.2000	.200	4.00	.00003	.000	1
CalibStd=100	1000.0	1000.0	.020	.002	.00444	.000	1

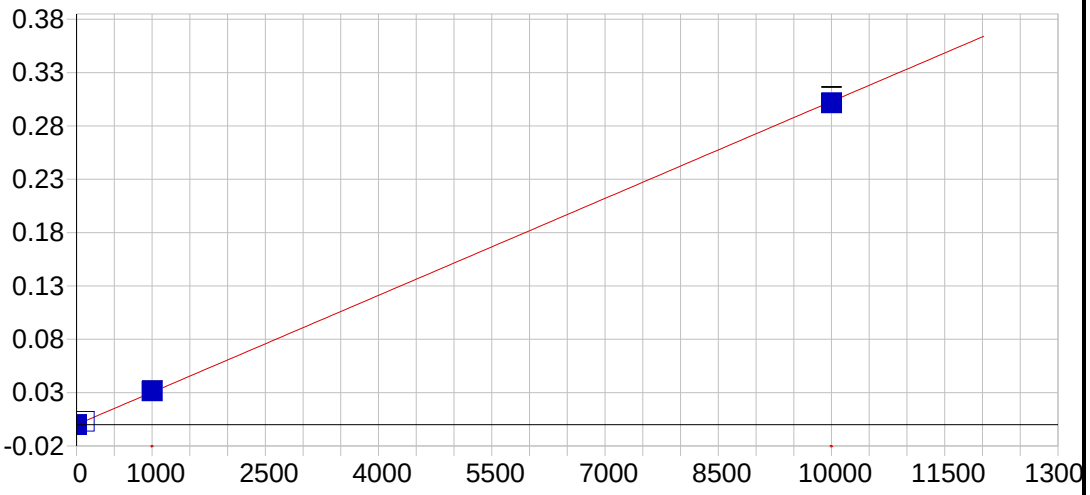


Mo 204.598 {465}

Date of Fit:	12/03/2010 13:34:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000003	Re-Slope:	1.000000
A1 (Gain):	0.000007	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999949	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	1.394092		
Predicted MQL:	4.646972		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00344	-.003	.000	.00000	.000	1
CalibStd=100	1000.0	1030.7	30.7	3.07	.00675	.000	1
CalibStd=100	10000.	9965.8	-34.2	-.342	.06520	.001	1
CalibStd=50	50.000	50.686	.686	1.37	.00033	.000	1
CalibStd=100	100.00	102.78	2.78	2.78	.00068	.000	1

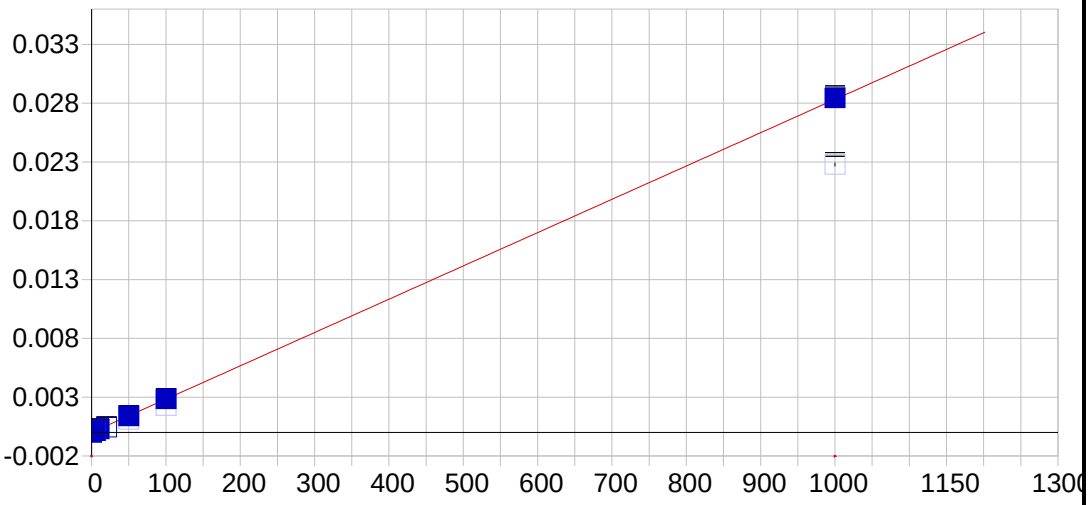


Ni 221.647 {452}

Date of Fit:	12/03/2010 13:34:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000004	Re-Slope:	1.000000
A1 (Gain):	0.000030	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999895	Status:	OK.
Std Error of Est:	0.000021		
Predicted MDL:	0.537311		
Predicted MQL:	1.791036		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00620	-.006	.000	.00000	.000	1
CalibStd=100	10000.	9952.6	-47.4	-.474	.30154	.006	1
CalibStd=100	100.00	102.14	2.14	2.14	.00310	.000	1
CalibStd=100	1000.0	1045.3	45.3	4.53	.03167	.000	1

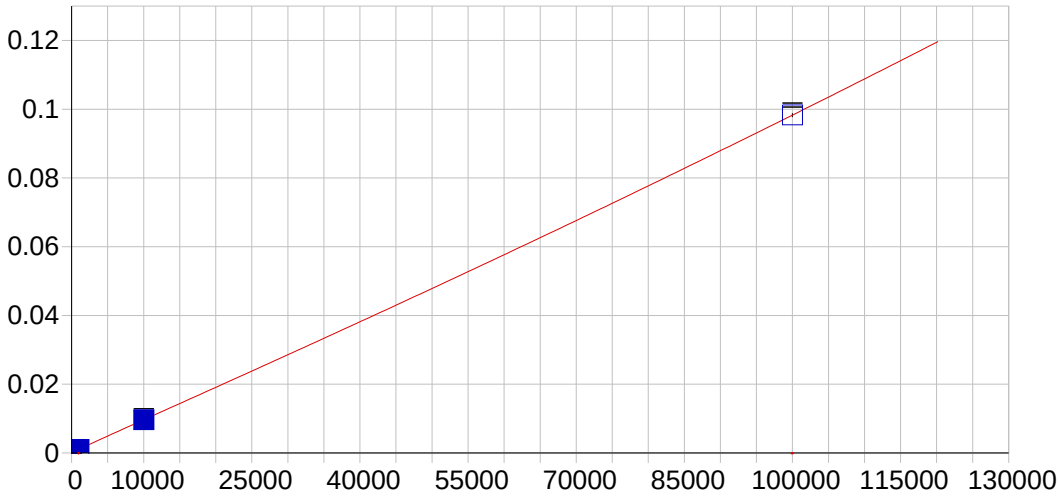


Ni 231.604 {445}

Date of Fit:	12/06/2010 14:31:10	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000002	Re-Slope:	1.000000
A1 (Gain):	0.000028	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999336	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	0.494329		
Predicted MQL:	1.647764		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00052	.001	.000	.00000	.000	1
CalibStd=50	50.000	49.477	-.523	-1.05	.00112	.000	1
CalibStd=20	20.000	15.669	-4.33	-21.7	.00044	.000	1
CalibStd=10	10.000	10.156	.156	1.56	.00023	.000	1
CalibStd=100	100.00	100.74	.737	.737	.00229	.000	1
CalibStd=5	5.0000	5.4735	.473	9.47	.00013	.000	1
CalibStd=100	1000.0	1004.6	4.57	.457	.02279	.000	1

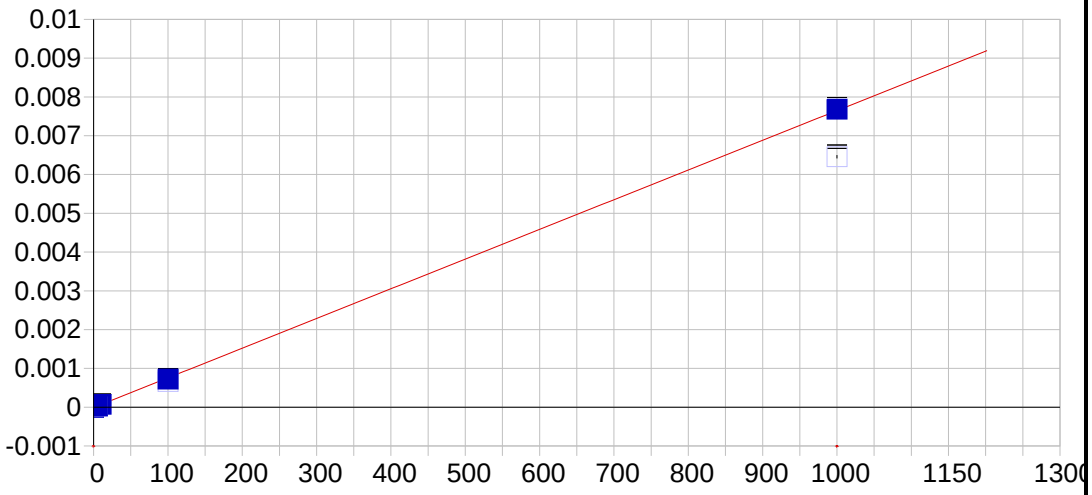


Pb 216.999 {455}

Date of Fit:	12/03/2010 13:40:52	Type of Fit:	Full Fit	Weighting:	None

A0 (Offset):	0.000013	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	0.970000		
Correlation:	1.000000	Status:	Warning Positive Curvature
Std Error of Est:	0.000000		
Predicted MDL:	10.791424		
Predicted MQL:	35.971414		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00001	.000	1
CalibStd=100	1000.0	1000.3	.316	.032	.00104	.000	1
CalibStd=100	10000.	10000.0	-.039	.000	.00967	.000	1
CalibStd-100	100000.	100000.	.000	.000	.09829	.001	1

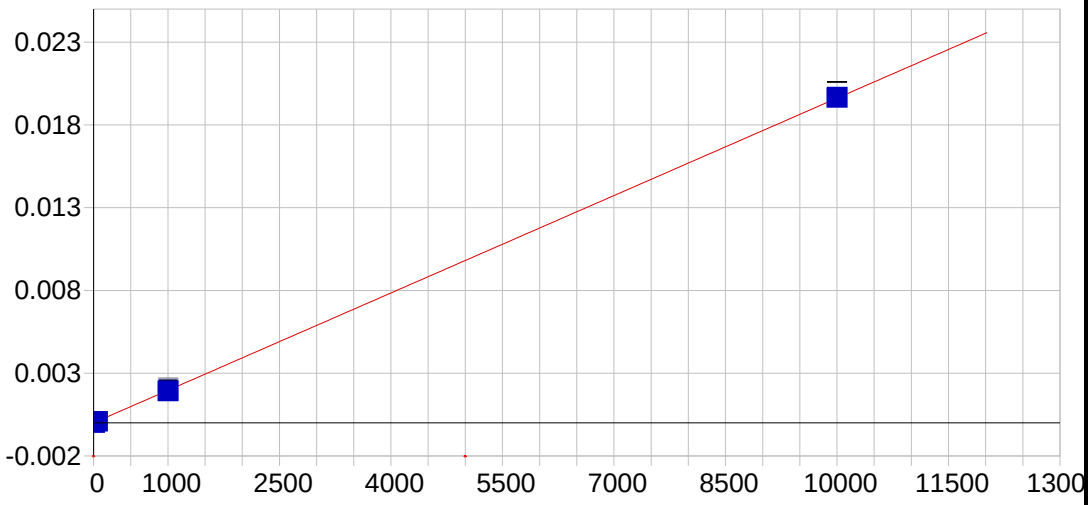


Pb 220.353 {453}

Date of Fit:	12/03/2010 13:29:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000010	Re-Slope:	1.000000
A1 (Gain):	0.000008	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999804	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	2.072715		
Predicted MQL:	6.909051		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00005	.000	.000	-.00001	.000	1
CalibStd=10	10.000	10.875	.875	8.75	.00007	.000	1
CalibStd=100	100.00	95.485	-4.51	-4.51	.00066	.000	1
CalibStd=5	5.0000	4.7139	-.286	-5.72	.00002	.000	1
CalibStd=100	1000.0	1004.3	4.30	.430	.00646	.000	1

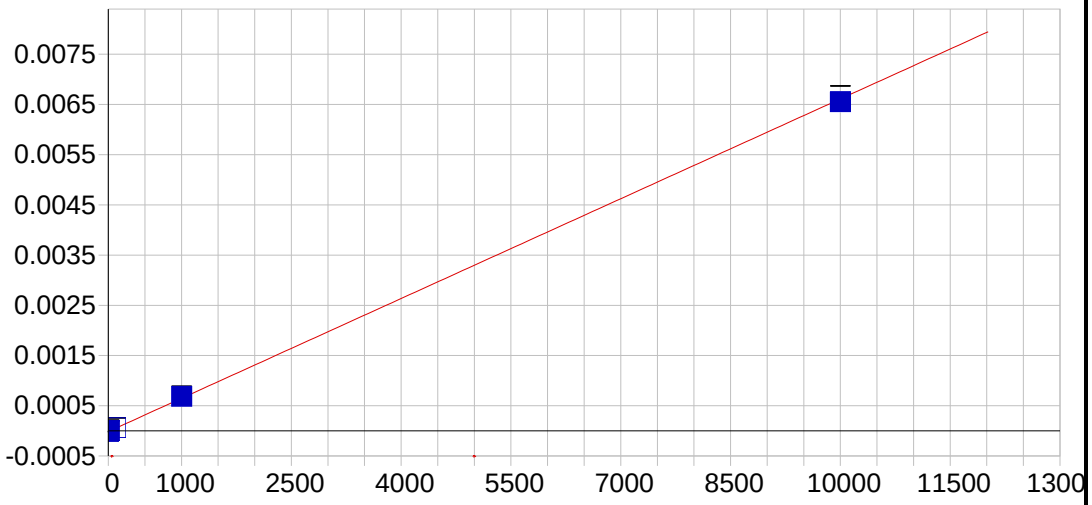


Sb 206.833 {463}

Date of Fit:	12/03/2010 13:34:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000002	Re-Slope:	1.000000
A1 (Gain):	0.000002	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999963	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	5.027101		
Predicted MQL:	16.757005		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00204	.002	.000	.00000	.000	1
CalibStd=100	1000.0	978.77	-21.2	-2.12	.00206	.000	1
CalibStd=10	10.000	8.2085	-1.79	-17.9	.00002	.000	1
CalibStd=50	50.000	49.695	-.305	-.610	.00011	.000	1
CalibStd=100	10000.	10025.	24.9	.249	.01967	.000	1

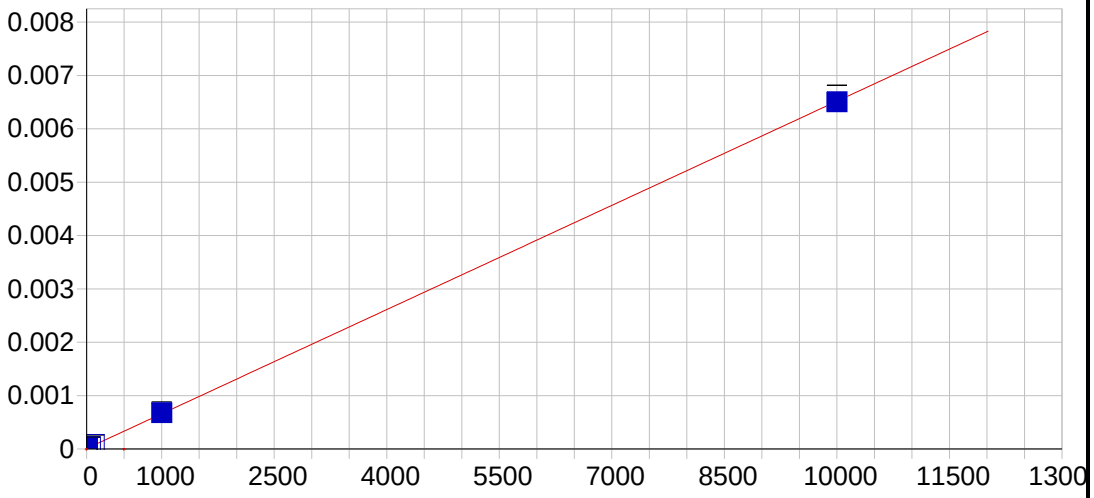


Sb 217.581 {455}

Date of Fit:	12/03/2010 13:34:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000014	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998781	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	22.755935		
Predicted MQL:	75.853116		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.01880	-.019	.000	-.00001	.000	1
CalibStd=100	1000.0	1054.0	54.0	5.40	.00068	.000	1
CalibStd=20	20.000	25.772	5.77	28.9	.00000	.000	1
CalibStd=10	10.000	24.297	14.3	143.	.00000	.000	1
CalibStd=100	100.00	111.59	11.6	11.6	.00006	.000	1
CalibStd=100	10000.	9914.3	-85.7	-.857	.00655	.000	1

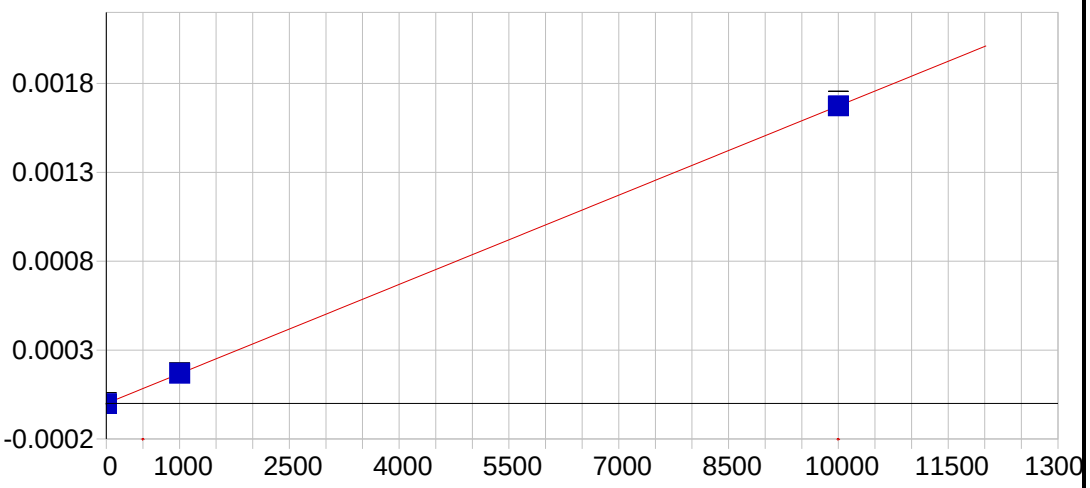


Se 196.090 {472}

Date of Fit:	12/03/2010 13:34:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000008	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999175	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	10.989014		
Predicted MQL:	36.630047		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.01247	.012	.000	.00001	.000	1
CalibStd=50	50.000	40.808	-9.19	-18.4	.00003	.000	1
CalibStd=100	1000.0	1030.4	30.4	3.04	.00068	.000	1
CalibStd=10	10.000	-2.0373	-12.0	-120.	.00001	.000	1
CalibStd=100	100.00	111.22	11.2	11.2	.00008	.000	1
CalibStd=100	10000.	9979.6	-20.4	-.204	.00650	.000	1

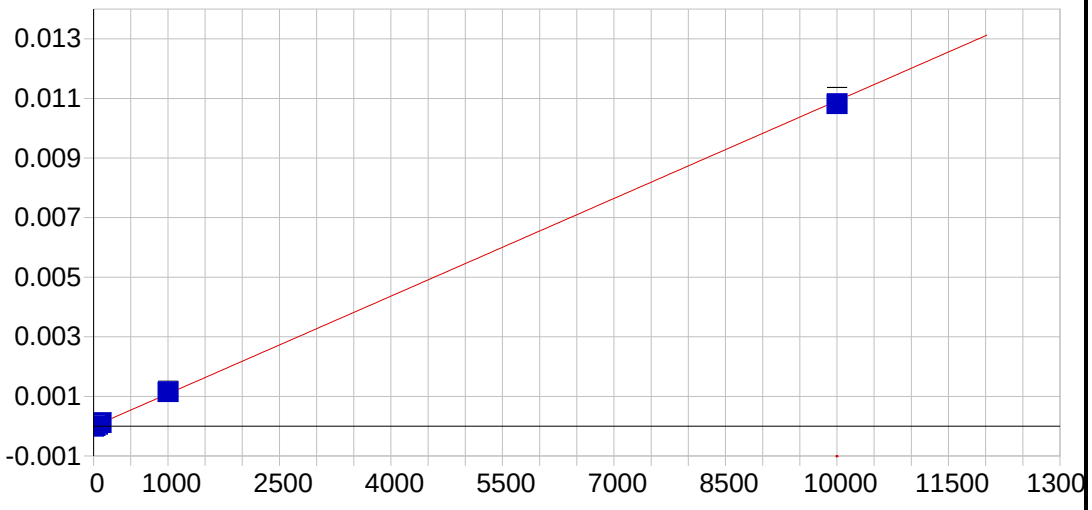


Se 206.279 {463}

Date of Fit:	12/03/2010 13:34:59	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999998	Status:	OK.
Std Error of Est:	0.000003		
Predicted MDL:	54.697681		
Predicted MQL:	182.325602		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-10.459	-10.5	.000	.00000	.000	1
CalibStd=100	1000.0	1011.6	11.6	1.16	.00017	.000	1
CalibStd=100	10000.	9998.8	-1.16	-.012	.00167	.000	1

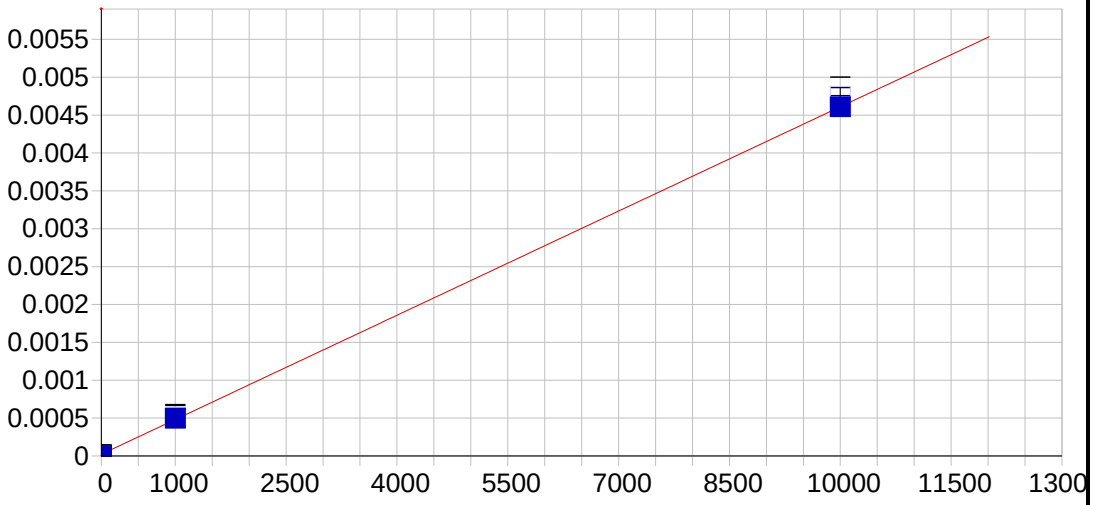


Tl 190.856 {477}

Date of Fit:	12/03/2010 13:34:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000006	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999550	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	7.817368		
Predicted MQL:	26.057894		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00987	-.010	.000	-.00001	.000	1
CalibStd=50	50.000	58.052	8.05	16.1	.00006	.000	1
CalibStd=100	1000.0	1063.8	63.8	6.38	.00116	.000	1
CalibStd=20	20.000	24.201	4.20	21.0	.00002	.000	1
CalibStd=100	100.00	108.79	8.79	8.79	.00011	.000	1
CalibStd=10	10.000	14.731	4.73	47.3	.00001	.000	1
CalibStd=100	10000.	9910.5	-89.5	-.895	.01082	.000	1

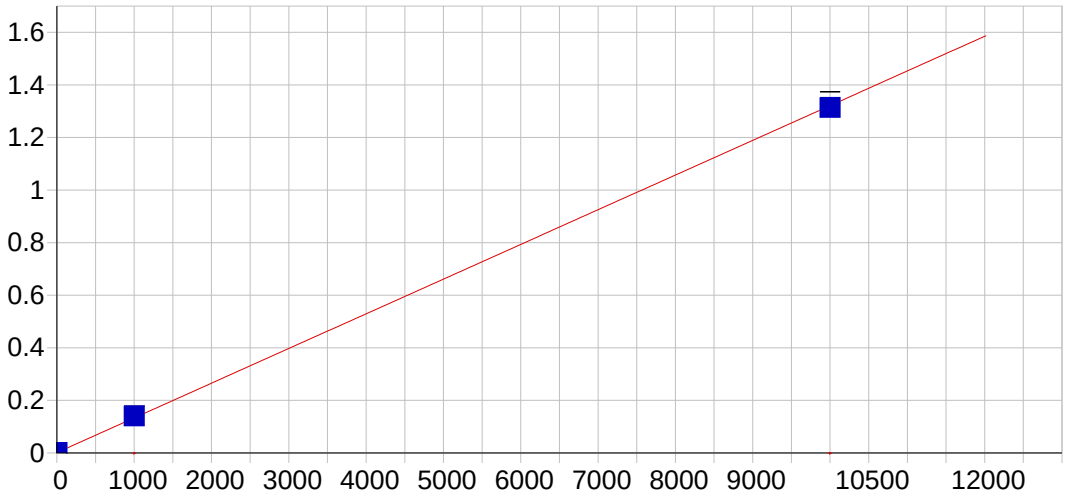


Tl 276.787 {122}

Date of Fit:	12/03/2010 13:34:59	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000022	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999986	Status:	OK.
Std Error of Est:	0.000019		
Predicted MDL:	137.066887		
Predicted MQL:	456.889623		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-28.148	-28.1	.000	.00001	.000	1
CalibStd=100	1000.0	1031.3	31.3	3.13	.00051	.000	1
CalibStd=100	10000.	9996.9	-3.13	-.031	.00475	.000	1

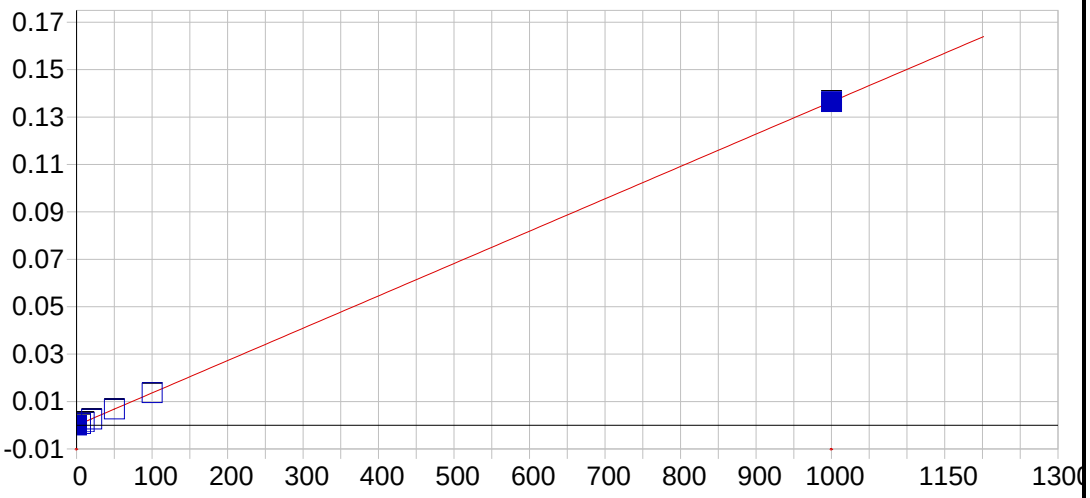


V 290.882 {116}

Date of Fit:	12/03/2010 13:34:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001479	Re-Slope:	1.000000
A1 (Gain):	0.000132	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999857	Status:	OK.
Std Error of Est:	0.000406		
Predicted MDL:	0.817399		
Predicted MQL:	2.724663		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.04817	-.048	.000	.00147	.000	1
CalibStd=100	1000.0	1053.5	53.5	5.35	.14052	.001	1
CalibStd=100	10000.	9946.5	-53.5	-.535	1.3142	.022	1

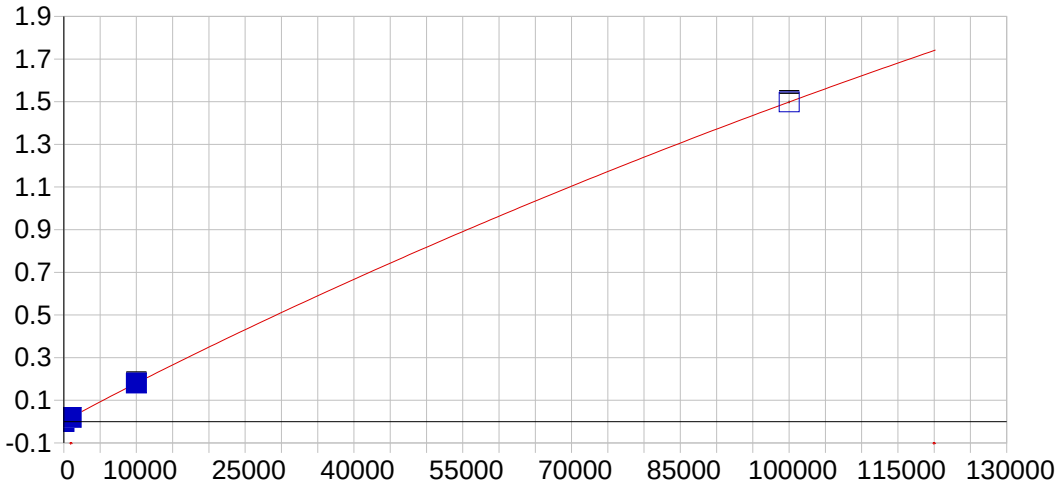


V 292.402 {115}

Date of Fit:	12/03/2010 13:29:14	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-0.000027	Re-Slope:	1.000000
A1 (Gain):	0.000136	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999999	Status:	OK.
Std Error of Est:	0.000070		
Predicted MDL:	0.883468		
Predicted MQL:	2.944893		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.40341	.403	.000	.00003	.000	1
CalibStd=50	50.000	49.948	-.052	-.104	.00679	.000	1
CalibStd=100	1000.0	999.99	-.007	-.001	.13647	.000	1
CalibStd=20	20.000	18.993	-1.01	-5.03	.00257	.000	1
CalibStd=5	5.0000	5.1509	.151	3.02	.00068	.000	1
CalibStd=10	10.000	10.246	.246	2.46	.00137	.000	1
CalibStd=100	100.00	100.27	.266	.266	.01366	.000	1

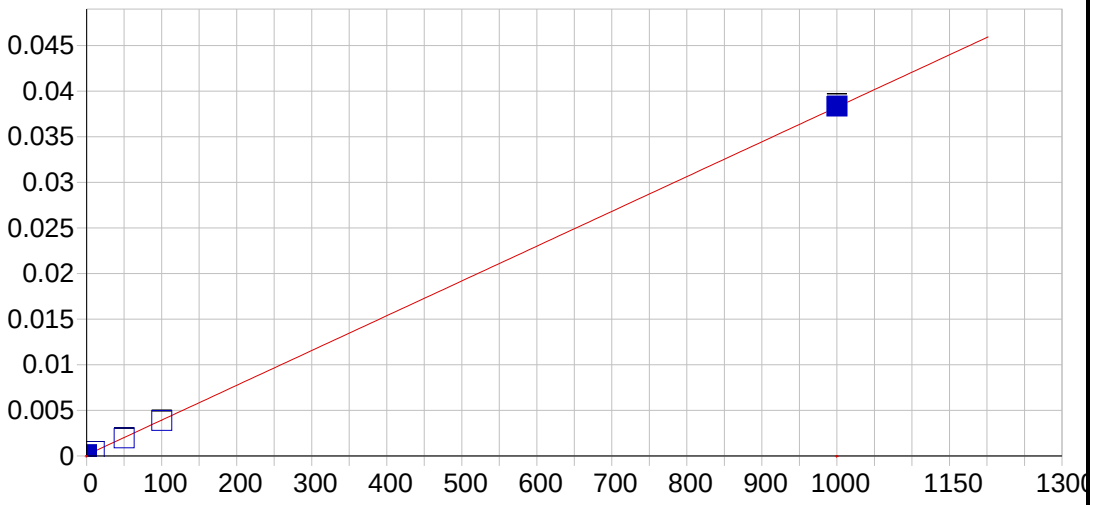


Zn 206.200 {463}

Date of Fit:	12/03/2010 13:40:52	Type of Fit:	Full Fit	Weighting:	None

A0 (Offset):	-0.000032	Re-Slope:	1.000000
A1 (Gain):	0.000024	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	0.970000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.343458		
Predicted MQL:	1.144860		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
CalibStd=100	10000.	10001.	.671	.007	.18072	.004	1
CalibStd-100	100000.	100000.	-.010	.000	1.4986	.006	1
Blank	.00000	3.7175	3.72	.000	.00005	.000	1
CalibStd=100	1000.0	994.85	-5.15	-.515	.01947	.000	1

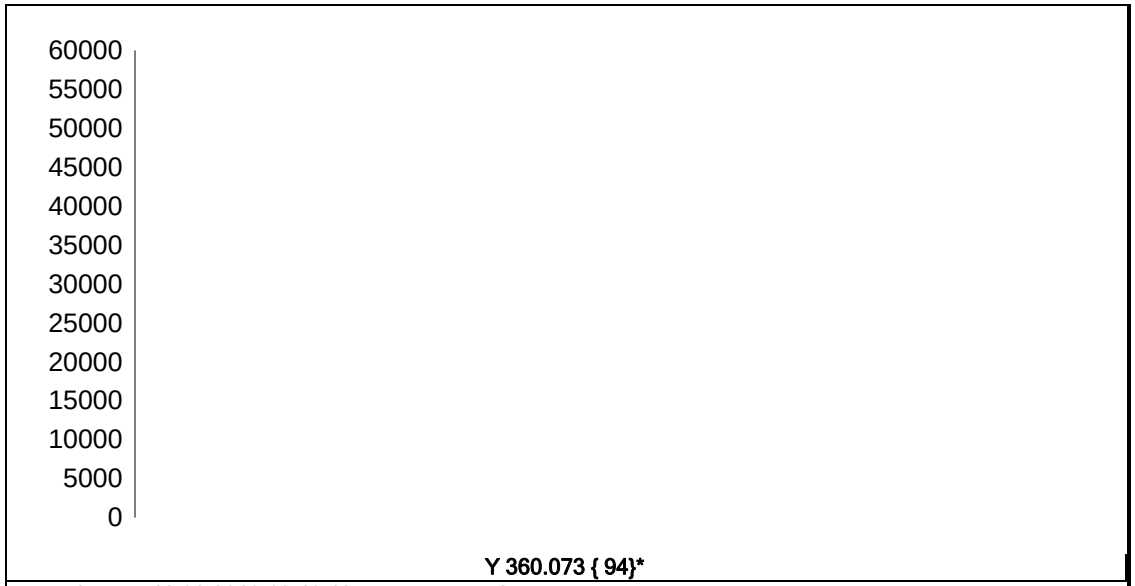


Zn 213.856 {458}

Date of Fit:	12/03/2010 13:29:14	Type of Fit:	Linear	Weighting:	1/Conc

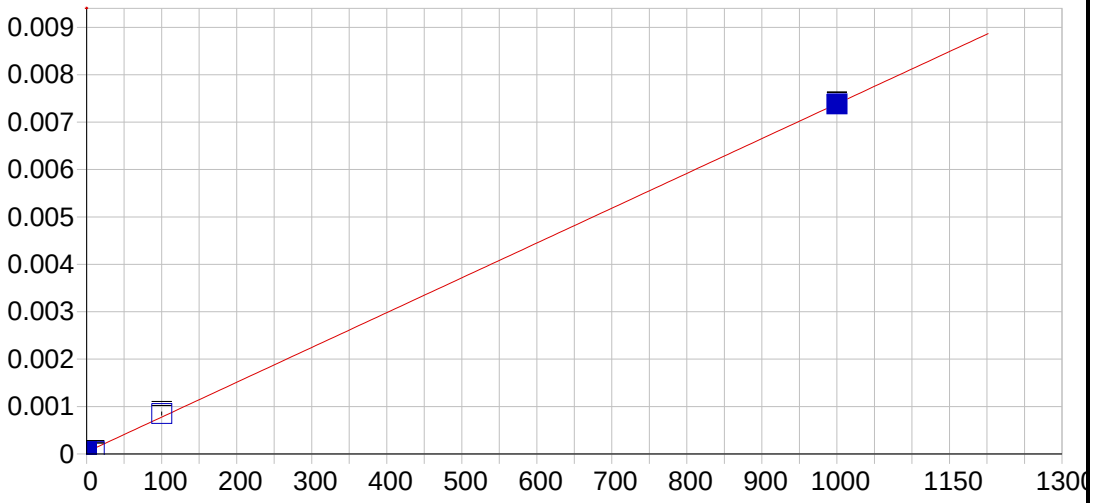
A0 (Offset):	0.000116	Re-Slope:	1.000000
A1 (Gain):	0.000038	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999957	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	0.248361		
Predicted MQL:	0.827870		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00002	.000	.000	.00012	.000	1
CalibStd=100	100.00	98.625	-1.38	-1.38	.00388	.000	1
CalibStd=50	50.000	48.375	-1.63	-3.25	.00196	.000	1
CalibStd=10	10.000	10.458	.458	4.58	.00052	.000	1
CalibStd=100	1000.0	1002.5	2.54	.254	.03836	.000	1



Date of Fit:	12/03/2010 12:40:18	Type of Fit:	Linear	Weighting:	None	
A0 (Offset):	0.000000		Re-Slope:	1.000000		
A1 (Gain):	0.000000		Y-int:	0.000000		
A2 (Curvature):	0.000000					
n (Exponent):	1.000000					
Correlation:	0.000000		Status:	Warning	Zero Gain	
Std Error of Est:	0.000000					
Predicted MDL:	n/a					
Predicted MQL:	n/a					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	51016.	498.	1

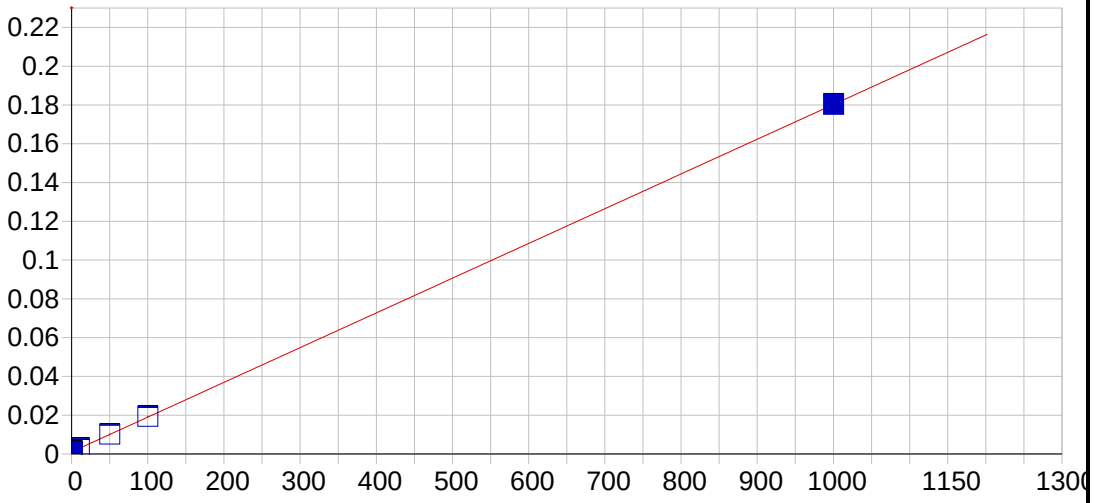


B 249.773 {135}

Date of Fit:	12/03/2010 13:29:14	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000043	Re-Slope:	1.000000
A1 (Gain):	0.000007	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999864	Status:	OK.
Std Error of Est:	0.000072		
Predicted MDL:	6.303696		
Predicted MQL:	21.012320		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.10078	.101	.000	.00004	.000	1
CalibStd=10	10.000	.66264	-9.34	-93.4	.00005	.000	1
CalibStd=100	100.00	110.16	10.2	10.2	.00085	.000	1
CalibStd=100	1000.0	999.08	-.922	-.092	.00738	.000	1

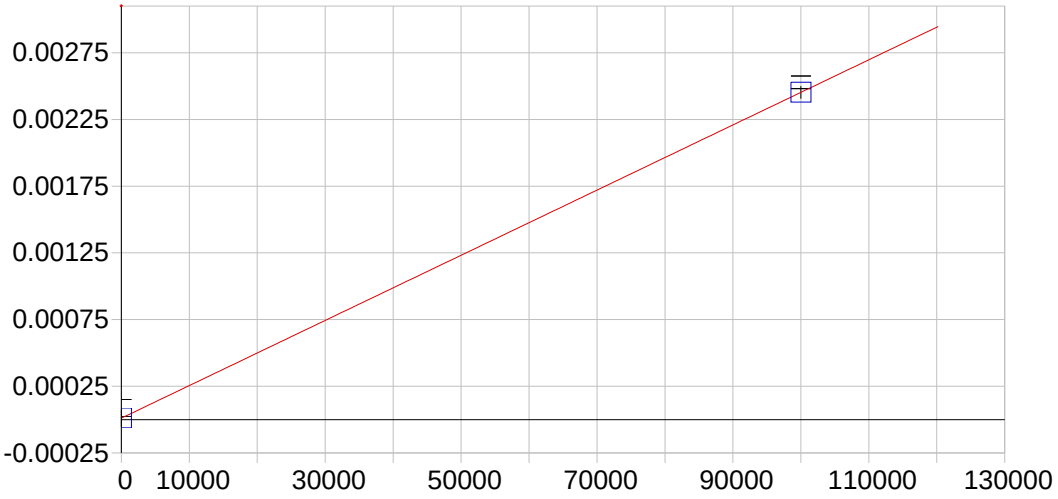


Li 670.784 { 50}

Date of Fit:	12/03/2010 13:29:14	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.001090	Re-Slope:	1.000000
A1 (Gain):	0.000179	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999995	Status:	OK.
Std Error of Est:	0.000244		
Predicted MDL:	2.062434		
Predicted MQL:	6.874779		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-1.9164	-1.92	.000	.00075	.000	1
CalibStd=10	10.000	9.4167	-.583	-5.83	.00278	.001	1
CalibStd=50	50.000	50.348	.348	.696	.01011	.000	1
CalibStd=100	100.00	101.68	1.68	1.68	.01931	.000	1
CalibStd=100	1000.0	999.82	-.180	-.018	.18023	.000	1
CalibStd=1	1.0000	1.6523	.652	65.2	.00139	.000	1

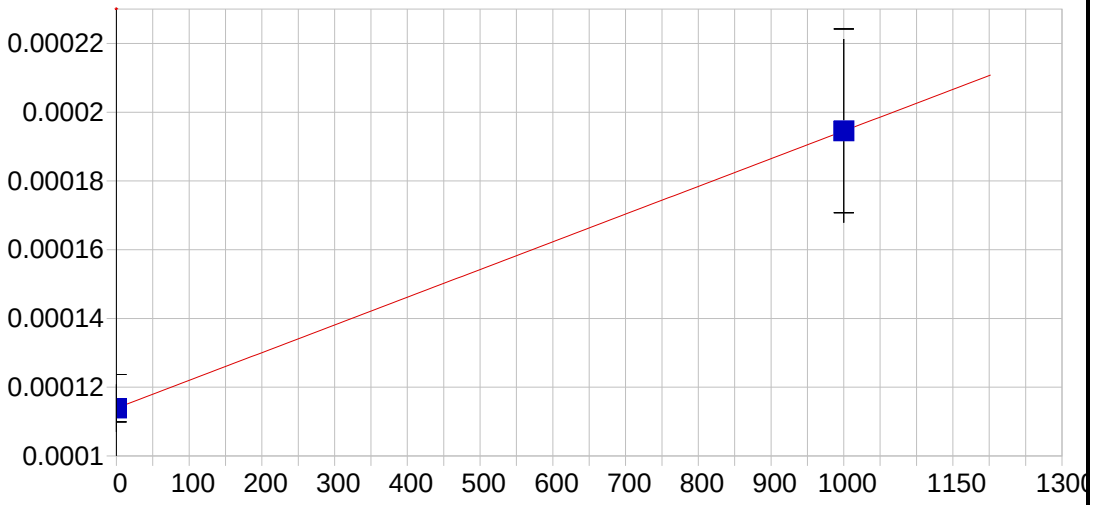


Na 330.298 {102}

Date of Fit:	12/03/2010 13:46:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000011	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	3383.868119		
Predicted MQL:	11279.56039		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00001	.000	1
CalibStd=100	100000.	100000.	.000	.000	.00245	.000	1

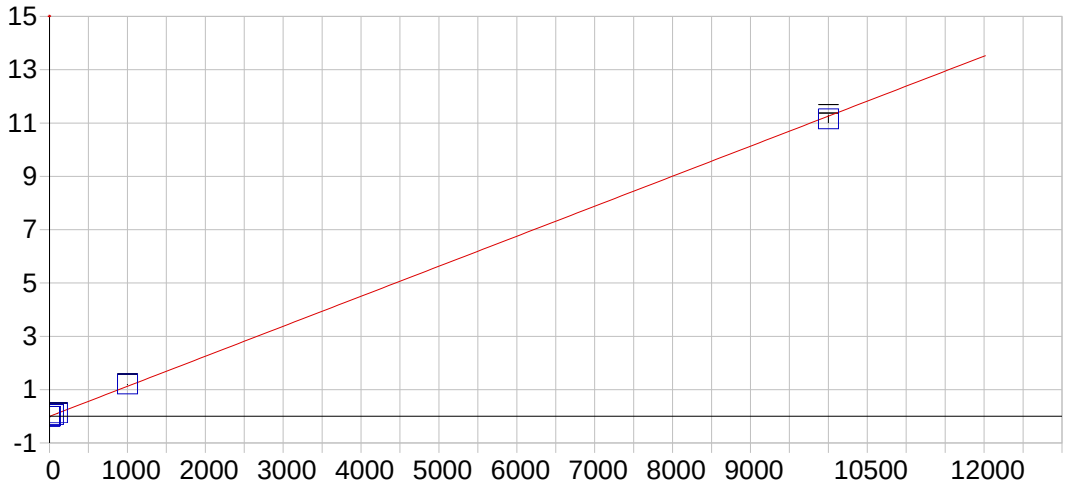


Si 251.611 {134}

Date of Fit:	12/03/2010 13:29:14	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000114	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	575.029642		
Predicted MQL:	1916.765472		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00011	.000	1
CalibStd=100	1000.0	1000.0	.000	.000	.00019	.000	1

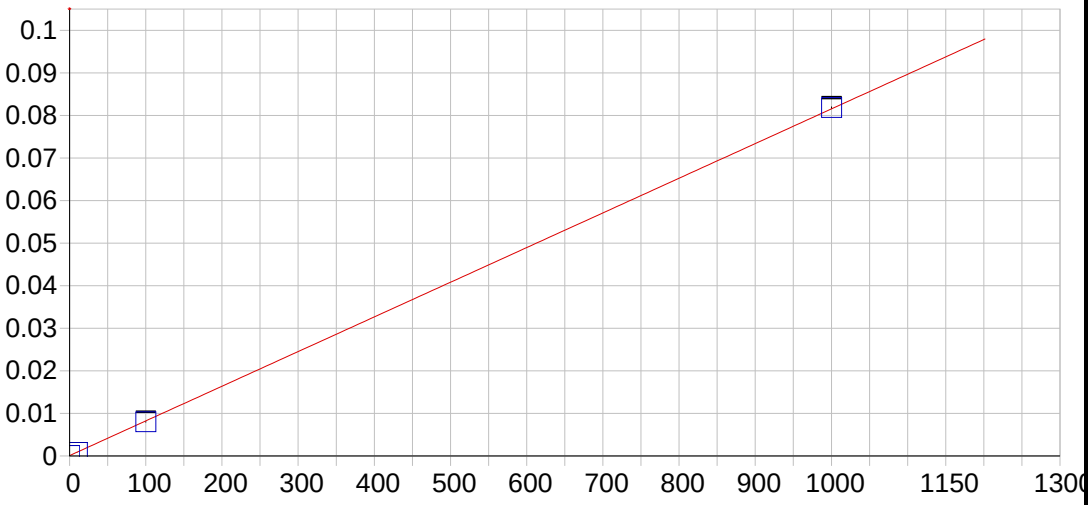


Sr 407.771 { 83}

Date of Fit:	12/03/2010 13:34:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001611	Re-Slope:	1.000000
A1 (Gain):	0.001126	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999644	Status:	OK.
Std Error of Est:	0.000116		
Predicted MDL:	0.121208		
Predicted MQL:	0.404025		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00032	.000	.000	-.00161	.000	1
CalibStd=1	1.0000	.98460	-.015	-1.54	-.00050	.000	1
CalibStd=5	5.0000	5.1951	.195	3.90	.00424	.000	1
CalibStd=10	10.000	10.443	.443	4.43	.01015	.000	1
CalibStd=50	50.000	54.128	4.13	8.26	.05933	.001	1
CalibStd=100	100.00	110.50	10.5	10.5	.12280	.001	1
CalibStd=100	1000.0	1075.3	75.3	7.53	1.2091	.002	1
CalibStd=100	10000.	9909.5	-90.5	-.905	11.156	.157	1



Ti 334.941 {101}

Date of Fit:	12/03/2010 13:29:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000091	Re-Slope:	1.000000
A1 (Gain):	0.000081	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999912	Status:	OK.
Std Error of Est:	0.000005		
Predicted MDL:	1.050606		
Predicted MQL:	3.502021		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00125	.001	.000	.00009	.000	1
CalibStd=10	10.000	8.9889	-1.01	-10.1	.00082	.000	1
CalibStd=100	100.00	97.206	-2.79	-2.79	.00801	.000	1
CalibStd=100	1000.0	1003.8	3.80	.380	.08185	.000	1

Sample Name: Blank Acquired: 12/03/2010 12:34:51 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	Al3092	Al3961	As1890	Ba4554	Ba4934	Be2348	Be3130	Ca3179	Ca3933	Ca3968
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.001**	**.000**	**.000**	**.000**	**.033**	**.000**	**.000**	**.004**	**.012**	**.004**
Stddev	.000	.000	.000	.000	.000	.00	.000	.00	.000	.000	.000	.000
%RSD	3.11	9.41	2.79	34.6	378.	35.8	1.23	140.	169.	1.86	4.04	10.2

Elem	Cd2265	Cd2288	Co2286	Co2388	Cr2677	Cr2835	Cu2247	Fe2343	Fe2395	Fe2599	Mg2790	Mg2795
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**
Stddev	.000	.000	.00	.000	.00	.000	.000	.00	.000	.000	.000	.000
%RSD	16.0	122.	82.4	185.	227.	63.6	6.51	21.9	26.0	8.08	23.4	4.58

Elem	Mg2802	Mn2576	Mn2593	Mo2020	Mo2045	Ni2216	Ni2316	Pb2169	Pb2203	Sb2068	Sb2175	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**
Stddev	.000	.000	.00	.000	.000	.000	.00	.000	.00	.000	.00	.000
%RSD	3.06	91.2	122.	28.2	564.	161.	889.	74.0	73.4	181.	102.	47.2

Elem	Se2062	Tl1908	V_2908	V_2924	Zn2062	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.001**	**.000**	**.000**	**.000**
Stddev	.00	.00	.000	.000	.000	.000
%RSD	239.	35.4	5.04	24.0	8.49	9.35

Sample Name: Blank Acquired: 12/03/2010 12:34:51 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Units	Cts/S
Avg	**51016.**
Stddev	498.
%RSD	.97521

Sample Name: CalibStd=0.25 Acquired: 12/03/2010 12:40:21 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Be3130	Cd2265
Units	Cts/S	Cts/S
Avg	**.000**	**.000**
Stddev	.000	.000
%RSD	42.4	16.9

Int. Std.	Y_3600
Units	Cts/S
Avg	**49657.**
Stddev	355.
%RSD	.71391

Sample Name: CalibStd=0.5 Acquired: 12/03/2010 12:45:50 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Be3130	Cd2265
Units	Cts/S	Cts/S
Avg	**.001**	**.000**
Stddev	.000	.000
%RSD	25.1	17.9

Int. Std.	Y_3600
Units	Cts/S
Avg	**50470.**
Stddev	244.
%RSD	.48414

Sample Name: CalibStd=1 Acquired: 12/03/2010 12:51:20 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Ba4554	Cd2265	Co2286	Cr2677	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.001**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**
Stddev	.000	.000	.000	.000	.000	.000	.000
%RSD	9.31	80.9	4.54	31.3	35.9	24.2	59.5

Int. Std.	Y_3600
Units	Cts/S
Avg	**50017.**
Stddev	656.
%RSD	1.3120

Sample Name: CalibStd=5 Acquired: 12/03/2010 12:56:50 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	Ba4554	Be3130	Cd2265	Co2286	Cr2677	Cu2247	Mn2576	Mo2020	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.001**	**.000**	**.002**	**.005**	**.000**	**.000**	**.001**	**.000**	**.001**	**.000**	**.000**	**.000**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	3.26	11.4	5.51	3.03	2.73	2.39	4.98	2.78	8.80	11.3	7.83	59.4

Elem	V_2924
Units	Cts/S
Avg	**.001**
Stddev	.000
%RSD	20.2

Int. Std.	Y_3600
Units	Cts/S
Avg	**50884.**
Stddev	145.
%RSD	.28425

Sample Name: CalibStd=10 Acquired: 12/03/2010 13:02:21 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	Ba4554	Be3130	Cd2265	Co2286	Cr2677	Cu2247	Mg2795	Mn2576	Mo2020	Ni2316
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.002**	**.000**	**.004**	**.010**	**.001**	**.000**	**.001**	**.000**	**.004**	**.001**	**.000**	**.000**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	1.37	7.34	1.93	.735	.834	2.61	2.21	4.40	.969	4.42	4.45	4.03

Elem	Pb2203	Sb2068	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.000**	**.000**	**.000**	**.001**	**.001**
Stddev	.000	.000	.000	.000	.000	.000	.000
%RSD	9.06	27.2	769.	91.2	41.6	6.68	.810

Int. Std.	Y_3600
Units	Cts/S
Avg	**51091.**
Stddev	216.
%RSD	.42311

Sample Name: CalibStd=20 Acquired: 12/03/2010 13:07:53 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al1670	Ba4554	Cr2677	Fe2599	Mg2795	Mn2576	Mo2020	Ni2316	Sb2175	Tl1908	V_2924
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.009**	**.002**	**.001**	**.008**	**.002**	**.000**	**.000**	**.000**	**.000**	**.003**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	10.3	3.36	2.11	3.18	.197	1.69	4.47	3.23	108.	20.1	4.02

Int. Std.	Y_3600
Units	Cts/S
Avg	**51608.**
Stddev	228.
%RSD	.44108

Sample Name: CalibStd=50 Acquired: 12/03/2010 13:13:22 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al1670	Ba4554	Ca3933	Cd2265	Co2286	Cr2677	Cr2835	Cu2247	Fe2599	Mg2795	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.024**	**.145**	**.005**	**.002**	**.005**	**.001**	**.001**	**.001**	**.018**	**.006**	**.000**
Stddev	.000	.001	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	1.80	3.02	1.50	1.17	1.88	2.57	2.53	2.37	2.86	1.92	2.86	1.01

Elem	Mo2045	Ni2316	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.001**	**.000**	**.000**	**.000**	**.007**	**.002**
Stddev	.000	.000	.000	.000	.000	.000	.000
%RSD	3.34	.727	4.96	13.5	11.1	1.79	1.15

Int. Std.	Y_3600
Units	Cts/S
Avg	**50814.**
Stddev	712.
%RSD	1.4004

Sample Name: CalibStd=100 Acquired: 12/03/2010 13:18:48 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	As1890	Ba4554	Be2348	Be3130	Ca3968	Cd2265	Cd2288	Co2286	Cr2677	Cr2835	Cu2247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.022**	**.000**	**.049**	**.006**	**.102**	**.091**	**.010**	**.006**	**.003**	**.010**	**.002**	**.002**
Stddev	.000	.000	.001	.000	.001	.001	.000	.000	.000	.000	.000	.000
%RSD	1.39	4.00	1.44	.657	.777	1.10	.492	.725	.787	.094	.703	.926

Elem	Fe2599	Mn2576	Mo2020	Mo2045	Ni2216	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.002**	**.011**	**.001**	**.001**	**.003**	**.002**	**.001**	**.000**	**.000**	**.000**	**.014**	**.004**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	2.78	1.56	.956	.204	.865	.909	2.40	7.26	7.55	2.40	.303	.824

Int. Std.	Y_3600
Units	Cts/S
Avg	**50760.**
Stddev	367.
%RSD	.72350

Sample Name: CalibStd=1000 Acquired: 12/03/2010 13:24:12 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al1670	Al3092	Al3961	As1890	Ba4934	Be2348	Be3130	Ca3179	Ca3968	Cd2265	Cd2288	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.002**	**.007**	**.015**	**.000**	**.669**	**.066**	**1.03**	**.022**	**1.05**	**.101**	**.059**	**.031**
Stddev	.000	.000	.000	.000	.002	.000	.00	.000	.00	.001	.000	.000
%RSD	.739	1.82	.752	1.96	.301	.538	.347	.740	.284	.986	.727	.793

Elem	Co2388	Cr2677	Cr2835	Cu2247	Fe2343	Fe2395	Fe2599	Mg2790	Mg2802	Mn2576	Mn2593	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.006**	**.106**	**.022**	**.019**	**.000**	**.004**	**.022**	**.002**	**.276**	**.118**	**.073**	**.009**
Stddev	.000	.001	.000	.000	.000	.000	.000	.000	.001	.001	.000	.000
%RSD	.678	.882	.839	.882	2.82	1.28	.389	2.14	.387	.919	.418	.776

Elem	Mo2045	Ni2216	Ni2316	Pb2169	Pb2203	Sb2068	Sb2175	Se1960	Se2062	Tl1908	V_2908	V_2924
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.007**	**.032**	**.023**	**.001**	**.006**	**.002**	**.001**	**.001**	**.000**	**.001**	**.141**	**.136**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000
%RSD	.629	.905	.692	1.06	.682	.888	.516	1.05	1.84	.795	.441	.365

Elem	Zn2062	Zn2138
Units	Cts/S	Cts/S
Avg	**.019**	**.038**
Stddev	.000	.000
%RSD	.448	.674

Sample Name: CalibStd=1000 Acquired: 12/03/2010 13:24:12 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Units	Cts/S
Avg	**50134.**
Stddev	228.
%RSD	.45426

Sample Name: CalibStd=10000 Acquired: 12/03/2010 13:29:17 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al3092	Al3961	As1890	Ba4934	Ca3179	Ca3968	Co2388	Cr2835	Cu2247	Fe2343	Fe2395	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.048**	**.113**	**.004**	**6.27**	**.139**	**7.91**	**.056**	**.209**	**.177**	**.002**	**.034**	**.013**
Stddev	.001	.003	.000	.08	.004	.23	.001	.005	.003	.000	.001	.000
%RSD	2.90	2.52	1.68	1.33	2.77	2.88	2.43	2.42	1.69	5.25	2.95	3.56

Elem	Mg2802	Mn2576	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068	Sb2175	Se1960	Se2062	Tl1908	V_2908
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.10**	**1.15**	**.674**	**.065**	**.302**	**.010**	**.020**	**.007**	**.007**	**.002**	**.011**	**1.31**
Stddev	.06	.03	.016	.001	.006	.000	.000	.000	.000	.000	.000	.02
%RSD	3.04	2.82	2.31	1.80	1.88	2.15	1.65	1.83	1.87	1.50	1.92	1.66

Elem	Zn2062
Units	Cts/S
Avg	**.181**
Stddev	.004
%RSD	1.96

Int. Std.	Y_3600
Units	Cts/S
Avg	**50253.**
Stddev	916.
%RSD	1.8220

Sample Name: CalibStd-100k Acquired: 12/03/2010 13:35:02 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Cr2835	Mn2593	Pb2169	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.11**	**6.53**	**.098**	**1.50**
Stddev	.01	.02	.001	.01
%RSD	.397	.298	.581	.415

Int. Std.	Y_3600
Units	Cts/S
Avg	**50345.**
Stddev	197.
%RSD	.39078

Sample Name: CalibStd=100000 Acquired: 12/03/2010 13:40:56 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al3092	Al3961	Ca3179	Fe2343	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.461**	**1.09**	**1.33**	**.019**	**.134**
Stddev	.002	.00	.01	.000	.001
%RSD	.390	.399	.353	.791	.493

Int. Std.	Y_3600
Units	Cts/S
Avg	**49360.**
Stddev	372.
%RSD	.75426

Sample Name: CalibStd=500000 Acquired: 12/03/2010 13:46:48 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al3961	Ca3179	Fe2343	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5.72**	**6.21**	**.088**	**.637**
Stddev	.00	.04	.001	.007
%RSD	.010	.658	1.41	1.13

Int. Std.	Y_3600
Units	Cts/S
Avg	**48356.**
Stddev	337.
%RSD	.69793

Sample Name: CalibStd-1000k Acquired: 12/03/2010 13:52:40 Type: Cal
Method: DOD Calibration 1(v1290) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al3961	Ca3179	Fe2343	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**11.1**	**11.5**	**.150**	**1.14**
Stddev	.1	.2	.002	.02
%RSD	.957	1.63	1.64	1.48

Int. Std.	Y_3600
Units	Cts/S
Avg	**47243.**
Stddev	385.
%RSD	.81400

Sample Name: icv Acquired: 12/03/2010 14:04:19 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2388	Cr2677	Cu2247	Fe2395
Avg	**116.**	**12200.**	**2050.**	**2060.**	**50.5**	**10100.**	**49.8**	**518.**	**197.**	**252.**	**4920.**
Stddev	2.	65.	21.	14.	.1	35.	.2	8.	2.	1.	21.
%RSD	1.62	.532	1.00	.677	.291	.347	.483	1.46	.924	.207	.434
Check ?	None	None	None	None	None	None	None	None	None	None	None
Value											
Range											

Elem	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se2062	Tl1908	V_2924	Zn2138
Avg	**10400.**	**508.**	**504.**	**495.**	**499.**	**536.**	**2120.**	**2110.**	**491.**	**505.**
Stddev	80.	1.	2.	2.	2.	10.	54.	15.	1.	2.
%RSD	.765	.244	.323	.345	.333	1.87	2.53	.714	.243	.410
Check ?	None	None	None	None	None	None	None	None	None	None
Value										
Range										

Int. Std.	Y_3600
Avg	**50998.**
Stddev	122.
%RSD	.23904

Sample Name: icb Acquired: 12/03/2010 14:15:22 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1890	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**.016**	**25.9**	**-8.14**	**.479**	**.030**	**25.4**	**-.062**	**.328**	**.945**	**.261**	**22.1**	**28.2**
Stddev	1.05	2.5	5.23	.213	.013	2.5	.223	.028	.076	.898	4.2	3.0
%RSD	6540.	9.71	64.2	44.6	41.7	9.77	361.	8.41	8.00	345.	18.8	10.5
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**.414**	**.913**	**.560**	**.941**	**-1.05**	**-.384**	**.938**	**.226**	**-.551**
Stddev	.143	.850	.641	1.45	3.80	.674	3.54	.085	.153
%RSD	34.6	93.2	115.	154.	362.	175.	378.	37.4	27.8
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**50932.**
Stddev	149.
%RSD	.29297

Sample Name: MRL Acquired: 12/03/2010 14:20:52 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1890	Ba4554	Be3130	Ca3968	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**20.1**	**346.**	**7.68**	**9.83**	**3.95**	**540.**	**5.00**	**10.4**	**10.9**	**11.3**	**289.**	**522.**
Stddev	.0	3.	18.8	.37	.04	.	.08	.3	.6	.1	5.	.
%RSD	.024	.765	245.	3.78	1.05	.030	1.61	2.49	5.29	.540	1.57	.028
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**12.7**	**10.0**	**10.2**	**12.0**	**20.5**	**10.9**	**24.6**	**9.89**	**10.6**
Stddev	.1	.5	.4	1.1	2.5	3.2	1.3	.43	.1
%RSD	.619	5.30	4.04	9.26	12.4	29.3	5.32	4.36	1.40
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**51209.**
Stddev	49.
%RSD	.09568

Sample Name: icsa Acquired: 12/03/2010 14:26:19 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Avg	**.000**	**537000.**	**.003**	**.015**	**.003**	**572000.**	**.081**	**.037**	**.004**	**.000**
Stddev	.398	5370.	9.83	.246	.019	8930.	.035	.331	.846	.189
%RSD	30e15	.998	374000.	1590.	685.	1.56	43.2	891.	23800.	108000.
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2343	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Avg	**486000.**	**516000.**	**.000**	**-.056**	**.027**	**.016**	**.025**	**-.019**	**.086**	**.077**
Stddev	1830.	4630.	.706	.860	.219	2.37	5.72	11.6	7.02	.402
%RSD	.375	.898	1085e6	1540.	808.	14400.	22500.	60300.	8190.	522.
Check ?	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Zn2138
Avg	**.000**
Stddev	.625
%RSD	416000.
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: icsa Acquired: 12/03/2010 14:26:19 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Avg	**47864.**
Stddev	285.
%RSD	.59480

Sample Name: icsab Acquired: 12/03/2010 14:32:18 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be2348	Ca3179	Cd2265	Co2388	Cr2677	Cu2247
Avg	**535.**	**553000.**	**552.**	**595.**	**410.**	**585000.**	**442.**	**442.**	**474.**	**509.**
Stddev	3.	780.	22.	4.	3.	4230.	4.	10.	2.	5.
%RSD	.647	.141	4.05	.602	.716	.723	.962	2.27	.442	.940
Check ?	None	None	None	None	None	None	None	None	None	None
Value										
Range										

Elem	Fe2343	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se2062	Tl1908	V_2924
Avg	**467000.**	**504000.**	**561.**	**527.**	**469.**	**480.**	**580.**	**491.**	**477.**	**536.**
Stddev	4660.	3770.	6.	3.	4.	5.	6.	79.	4.	3.
%RSD	.997	.747	1.15	.604	.883	1.02	1.03	16.1	.937	.570
Check ?	None	None	None	None	None	None	None	None	None	None
Value										
Range										

Elem	Zn2138
Avg	**537.**
Stddev	5.
%RSD	.971
Check ?	None
Value	
Range	

Sample Name: icsab Acquired: 12/03/2010 14:32:18 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Avg	**48226.**
Stddev	399.
%RSD	.82646

Sample Name: 870204 Acquired: 12/03/2010 14:37:58 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.456**	**216000.**	**188.**	**2050.**	**11.8**	**75400.**	**4.90**	**160.**	**1620.**	**198.**
Stddev	.221	1780.	4.	16.	.2	564.	.10	1.	16.	1.
%RSD	48.6	.823	1.95	.786	1.86	.748	2.03	.730	.992	.414

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**328000.**	**34600.**	**30300.**	**25.8**	**265.**	**410.**	**31.7**	**23.3**	**12.0**	**413.**
Stddev	2060.	343.	262.	1.0	2.	1.	3.1	4.4	5.8	3.
%RSD	.629	.992	.868	3.96	.823	.358	9.87	18.9	48.3	.671

Elem	Zn2062
Units	ug/L
Avg	**1070.**
Stddev	11.
%RSD	.996

Int. Std.	Y_3600
Units	Cts/S
Avg	**51593.**
Stddev	308.
%RSD	.59676

Sample Name: 870207 Acquired: 12/03/2010 14:43:38 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-.248**	**214000.**	**185.**	**1830.**	**11.3**	**79400.**	**4.70**	**163.**	**2750.**	**228.**
Stddev	1.18	2570.	4.	38.	.1	1200.	.24	1.	39.	1.
%RSD	477.	1.20	2.39	2.11	.583	1.51	5.07	.517	1.43	.489

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**361000.**	**39000.**	**19000.**	**25.6**	**316.**	**348.**	**53.8**	**15.1**	**7.97**	**410.**
Stddev	9890.	989.	205.	.5	3.	2.	1.1	9.1	6.05	1.
%RSD	2.74	2.54	1.08	2.00	.791	.543	1.96	60.6	75.9	.298

Elem	Zn2062
Units	ug/L
Avg	**1110.**
Stddev	3.
%RSD	.260

Int. Std.	Y_3600
Units	Cts/S
Avg	**50989.**
Stddev	221.
%RSD	.43288

Sample Name: 871184 Acquired: 12/03/2010 14:49:16 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**3.22**	**174000.**	**219.**	**4290.**	**13.2**	**1080000.**	**10.6**	**163.**	**354.**
Stddev	.59	591.	30.	11.	.1	4390.	.3	1.	3.
%RSD	18.2	.341	13.8	.255	.430	.405	2.60	.504	.901

Elem	Cu2247	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**205.**	**481000.**	**47100.**	**24100.**	**32.2**	**337.**	**274.**	**7.67**	**38.7**
Stddev	1.	3000.	176.	102.	1.4	1.	2.	1.89	3.4
%RSD	.461	.625	.375	.422	4.29	.350	.800	24.7	8.87

Elem	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L
Avg	**4.65**	**339.**	**1080.**
Stddev	6.11	1.	5.
%RSD	131.	.365	.505

Int. Std.	Y_3600
Units	Cts/S
Avg	**49184.**
Stddev	244.
%RSD	.49628

Sample Name: 871187 Acquired: 12/03/2010 15:00:41 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**3.15**	**204000.**	**186.**	**1890.**	**8.82**	**539000.**	**5.68**	**149.**	**1170.**	**182.**
Stddev	.53	247.	14.	2.	.14	2560.	.35	.	1.	1.
%RSD	16.8	.121	7.51	.120	1.57	.474	6.11	.067	.090	.746

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**415000.**	**40300.**	**20600.**	**21.1**	**261.**	**250.**	**25.5**	**32.5**	**10.3**	**401.**
Stddev	1270.	161.	75.	.5	1.	2.	.3	14.5	4.0	2.
%RSD	.306	.399	.365	2.60	.297	.831	1.09	44.5	39.3	.425

Elem	Zn2062
Units	ug/L
Avg	**939.**
Stddev	6.
%RSD	.609

Int. Std.	Y_3600
Units	Cts/S
Avg	**49677.**
Stddev	45.
%RSD	.09023

Sample Name: 871188 Acquired: 12/03/2010 15:06:23 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 10
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1.39**	**50700.**	**56.6**	**2860.**	**6.18**	**815000.**	**3.31**	**37.2**	**177.**	**70.5**
Stddev	.29	99.	10.8	5.	.10	5520.	.14	.5	1.	.8
%RSD	21.0	.194	19.1	.174	1.67	.677	4.40	1.27	.773	1.11

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**160000.**	**31100.**	**8160.**	**10.1**	**106.**	**167.**	**77.5**	**4.36**	**.659**	**66.9**
Stddev	2660.	221.	17.	.8	.	2.	16.4	15.9	6.58	.6
%RSD	1.66	.711	.209	7.47	.253	1.42	21.1	365.	997.	.947

Elem	Zn2138
Units	ug/L
Avg	**420.**
Stddev	3.
%RSD	.604

Int. Std.	Y_3600
Units	Cts/S
Avg	**50489.**
Stddev	383.
%RSD	.75936

Sample Name: 871190 Acquired: 12/03/2010 15:17:52 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-.382**	**198000.**	**194.**	**1740.**	**10.2**	**368000.**	**4.44**	**191.**	**2120.**	**283.**
Stddev	.635	1260.	20.	8.	.0	6680.	.27	1.	14.	2.
%RSD	166.	.636	10.1	.475	.191	1.82	6.18	.686	.667	.708

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**343000.**	**32600.**	**25300.**	**24.2**	**333.**	**278.**	**38.5**	**4.55**	**13.3**	**376.**
Stddev	1010.	120.	226.	.3	3.	6.	10.2	5.31	10.3	4.
%RSD	.294	.370	.896	1.25	.813	2.02	26.5	117.	77.4	1.05

Elem	Zn2138
Units	ug/L
Avg	**953.**
Stddev	10.
%RSD	1.000

Int. Std.	Y_3600
Units	Cts/S
Avg	**51431.**
Stddev	329.
%RSD	.63998

Sample Name: 871191 Acquired: 12/03/2010 15:23:33 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 10
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.847**	**33500.**	**45.9**	**1860.**	**3.11**	**496000.**	**2.77**	**34.7**	**164.**	**58.6**
Stddev	1.08	998.	16.1	56.	.15	17100.	.25	1.1	5.	1.5
%RSD	127.	2.98	35.1	3.01	4.80	3.44	9.05	3.02	2.95	2.61

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**131000.**	**13400.**	**5060.**	**7.71**	**98.0**	**73.4**	**5.13**	**8.79**	**8.96**	**67.5**
Stddev	5360.	561.	122.	.36	2.9	2.7	4.85	5.87	4.45	1.9
%RSD	4.08	4.20	2.41	4.70	2.92	3.73	94.6	66.8	49.7	2.75

Elem	Zn2138
Units	ug/L
Avg	**352.**
Stddev	10.
%RSD	2.87

Int. Std.	Y_3600
Units	Cts/S
Avg	**50940.**
Stddev	1444.
%RSD	2.8354

Sample Name: 871192 Acquired: 12/03/2010 15:29:20 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**3.44**	**281000.**	**194.**	**2670.**	**13.5**	**1260000.**	**3.74**	**165.**	**1830.**
Stddev	.07	12000.	21.	132.	.6	67800.	.71	13.	77.
%RSD	2.14	4.29	10.5	4.93	4.12	5.37	18.9	7.72	4.19

Elem	Cu2247	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**202.**	**514000.**	**56200.**	**24100.**	**23.1**	**350.**	**307.**	**23.9**	**41.1**
Stddev	19.	24500.	2360.	1020.	1.8	27.	26.	3.2	6.4
%RSD	9.25	4.78	4.20	4.23	7.85	7.77	8.36	13.3	15.6

Elem	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L
Avg	**6.43**	**485.**	**1010.**
Stddev	13.3	16.	80.
%RSD	208.	3.32	7.89

Int. Std.	Y_3600
Units	Cts/S
Avg	**48718.**
Stddev	827.
%RSD	1.6981

Sample Name: ccv1 Acquired: 12/03/2010 15:35:01 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be2348	Ca3179	Cd2288	Co2388	Cr2835	Cu2247	Fe2395	Mg2790
Avg	**465.**	**5290.**	**5000.**	**5160.**	**514.**	**5040.**	**511.**	**5270.**	**5130.**	**5070.**	**5200.**	**5120.**
Stddev	2.	13.	48.	5.	1.	21.	3.	25.	35.	33.	40.	15.
%RSD	.464	.247	.963	.089	.239	.407	.682	.479	.676	.641	.763	.299
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068	Se2062	Tl1908	V_2908	Zn2062
Avg	**5390.**	**5010.**	**5060.**	**5060.**	**4770.**	**5070.**	**5080.**	**5090.**	**4980.**
Stddev	39.	38.	37.	42.	48.	98.	43.	19.	32.
%RSD	.729	.755	.722	.838	1.00	1.93	.844	.378	.632
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**50434.**
Stddev	314.
%RSD	.62190

Sample Name: ccv2 Acquired: 12/03/2010 15:40:11 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1890	Ba4934	Be3130	Ca3968	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**51.3**	**427.**	**509.**	**514.**	**50.1**	**532.**	**51.5**	**505.**	**502.**	**525.**	**435.**	**515.**
Stddev	.6	6.	10.	11.	1.0	10.	.6	7.	7.	6.	10.	9.
%RSD	1.13	1.39	1.89	2.18	2.00	1.90	1.20	1.31	1.32	1.18	2.29	1.80
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**525.**	**496.**	**512.**	**510.**	**495.**	**517.**	**544.**	**505.**	**504.**
Stddev	10.	9.	7.	9.	11.	9.	11.	6.	7.
%RSD	1.88	1.86	1.43	1.85	2.24	1.73	2.07	1.12	1.30
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**51125.**
Stddev	725.
%RSD	1.4189

Sample Name: ccb Acquired: 12/03/2010 15:50:53 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1890	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**-.165**	**4.51**	**-5.51**	**.796**	**.128**	**6.91**	**-.036**	**.714**	**.753**	**.641**	**5.59**	**3.47**
Stddev	.135	.58	11.0	.257	.105	.15	.114	.195	.476	.198	1.51	.06
%RSD	81.7	12.9	200.	32.3	82.3	2.13	316.	27.3	63.2	30.9	27.1	1.82
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**.297**	**-.267**	**.439**	**.542**	**-1.76**	**-6.35**	**-.976**	**.005**	**-1.25**
Stddev	.467	.212	.266	1.84	4.47	3.97	7.18	.841	.09
%RSD	157.	79.5	60.7	339.	255.	62.5	735.	16200.	7.06
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**50804.**
Stddev	107.
%RSD	.21017

Sample Name: 871193 Acquired: 12/03/2010 15:56:24 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.114**	**189000.**	**196.**	**1830.**	**12.8**	**796000.**	**3.00**	**160.**	**259.**	**265.**
Stddev	.341	3440.	23.	30.	.2	8470.	.15	1.	5.	2.
%RSD	300.	1.82	11.6	1.65	1.71	1.06	4.93	.678	1.95	.880

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**324000.**	**44600.**	**15700.**	**18.8**	**324.**	**255.**	**4.06**	**11.0**	**3.45**	**316.**
Stddev	3640.	545.	317.	.2	2.	3.	2.11	5.0	10.8	6.
%RSD	1.12	1.22	2.02	1.29	.516	1.04	52.0	45.7	313.	2.02

Elem	Zn2062
Units	ug/L
Avg	**989.**
Stddev	8.
%RSD	.784

Int. Std.	Y_3600
Units	Cts/S
Avg	**51151.**
Stddev	991.
%RSD	1.9366

Sample Name: 871194 Acquired: 12/03/2010 16:02:07 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.264**	**80300.**	**101.**	**958.**	**7.66**	**256000.**	**6.43**	**443.**	**4290.**	**2020.**
Stddev	.456	866.	8.	7.	.06	3190.	.07	3.	44.	14.
%RSD	173.	1.08	8.39	.731	.789	1.24	1.02	.692	1.02	.698

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**220000.**	**25100.**	**9500.**	**16.5**	**417.**	**470.**	**62.4**	**5.75**	**4.91**	**131.**
Stddev	4430.	132.	35.	.2	2.	5.	3.5	6.41	2.87	1.
%RSD	2.01	.524	.367	1.04	.517	.964	5.69	112.	58.6	.443

Elem	Zn2062
Units	ug/L
Avg	**5960.**
Stddev	47.
%RSD	.782

Int. Std.	Y_3600
Units	Cts/S
Avg	**51458.**
Stddev	369.
%RSD	.71684

Sample Name: 871195 Acquired: 12/03/2010 16:07:54 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1.88**	**72300.**	**165.**	**769.**	**7.26**	**187000.**	**4.39**	**607.**	**530.**	**2850.**
Stddev	.43	471.	25.	5.	.05	1500.	.14	4.	10.	20.
%RSD	22.7	.651	15.4	.682	.678	.802	3.28	.652	1.90	.686

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**290000.**	**25600.**	**10600.**	**12.0**	**348.**	**349.**	**6.35**	**13.8**	**4.90**	**133.**
Stddev	1580.	186.	114.	.5	2.	3.	6.62	5.6	5.32	2.
%RSD	.546	.727	1.07	3.83	.548	.895	104.	40.9	109.	1.79

Elem	Zn2062
Units	ug/L
Avg	**1580.**
Stddev	9.
%RSD	.558

Int. Std.	Y_3600
Units	Cts/S
Avg	**51732.**
Stddev	1272.
%RSD	2.4592

Sample Name: 871196 Acquired: 12/03/2010 16:13:32 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2388	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**2.44**	**52300.**	**142.**	**1000.**	**4.79**	**816000.**	**4.02**	**43.8**	**153.**	**7420.**
Stddev	.31	3030.	7.	61.	.19	49600.	.07	11.6	1.	132.
%RSD	12.7	5.80	4.72	6.08	3.90	6.09	1.64	26.5	.928	1.78

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**214000.**	**22500.**	**6800.**	**8.44**	**272.**	**348.**	**.205**	**14.0**	**-1.25**	**91.2**
Stddev	12100.	1290.	391.	.76	5.	7.	2.76	5.3	7.42	2.3
%RSD	5.67	5.74	5.74	8.97	1.70	1.98	1350.	37.6	595.	2.47

Elem	Zn2062
Units	ug/L
Avg	**986.**
Stddev	20.
%RSD	2.06

Int. Std.	Y_3600
Units	Cts/S
Avg	**49376.**
Stddev	376.
%RSD	.76155

Sample Name: 871197 Acquired: 12/03/2010 16:19:15 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**2.63**	**82900.**	**128.**	**1610.**	**9.30**	**1280000.**	**6.66**	**461.**	**188.**
Stddev	.57	2390.	16.	53.	.23	55600.	.07	6.	3.
%RSD	21.9	2.88	12.8	3.27	2.50	4.33	.984	1.38	1.78

Elem	Cu2247	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2175	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**2130.**	**278000.**	**44100.**	**12000.**	**11.8**	**386.**	**389.**	**129.**	**23.6**
Stddev	31.	9380.	1320.	381.	.3	5.	6.	25.	2.2
%RSD	1.45	3.37	2.99	3.17	2.95	1.37	1.59	19.2	9.32

Elem	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L
Avg	**8.08**	**104.**	**6590.**
Stddev	4.07	1.	98.
%RSD	50.3	.486	1.49

Int. Std.	Y_3600
Units	Cts/S
Avg	**49209.**
Stddev	29.
%RSD	.05899

Sample Name: 871198 Acquired: 12/03/2010 16:24:58 Type: Unk
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**3.04**	**184000.**	**208.**	**5700.**	**15.5**	**1290000.**	**9.86**	**159.**	**1710.**
Stddev	.22	1840.	27.	65.	.2	24600.	.20	1.	16.
%RSD	7.19	1.00	12.8	1.14	1.55	1.90	2.01	.941	.927

Elem	Cu2247	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**261.**	**531000.**	**49900.**	**23000.**	**40.4**	**365.**	**346.**	**28.0**	**45.4**
Stddev	2.	7870.	802.	226.	1.3	3.	3.	2.7	5.5
%RSD	.626	1.48	1.61	.980	3.22	.950	.948	9.61	12.0

Elem	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L
Avg	**7.87**	**346.**	**1080.**
Stddev	1.84	3.	10.
%RSD	23.4	.722	.946

Int. Std.	Y_3600
Units	Cts/S
Avg	**50315.**
Stddev	331.
%RSD	.65817

Sample Name: ccv1 Acquired: 12/03/2010 16:53:05 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be2348	Ca3179	Cd2288	Co2388	Cr2835	Cu2247	Fe2395	Mg2790
Avg	**471.**	**5280.**	**5070.**	**5240.**	**545.**	**5120.**	**515.**	**5500.**	**5200.**	**5100.**	**5380.**	**5180.**
Stddev	8.	111.	64.	115.	10.	96.	8.	115.	101.	90.	107.	119.
%RSD	1.70	2.10	1.27	2.19	1.83	1.86	1.54	2.10	1.94	1.77	1.99	2.30
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068	Se2062	Tl1908	V_2908	Zn2062
Avg	**5510.**	**5050.**	**5080.**	**5080.**	**4870.**	**5140.**	**5050.**	**5200.**	**5050.**
Stddev	98.	82.	85.	83.	73.	133.	77.	83.	89.
%RSD	1.78	1.63	1.68	1.63	1.50	2.59	1.53	1.59	1.76
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**50038.**
Stddev	793.
%RSD	1.5852

Sample Name: ccv2 Acquired: 12/03/2010 16:58:16 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1890	Ba4934	Be3130	Ca3968	Cd2265	Co2388	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**50.4**	**423.**	**489.**	**511.**	**49.4**	**540.**	**50.0**	**542.**	**487.**	**514.**	**435.**	**513.**
Stddev	1.5	8.	21.	13.	1.5	13.	1.1	18.	12.	9.	13.	14.
%RSD	2.99	1.98	4.36	2.59	2.99	2.45	2.13	3.26	2.43	1.85	2.91	2.70
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**517.**	**487.**	**507.**	**506.**	**486.**	**496.**	**526.**	**499.**	**496.**
Stddev	13.	12.	13.	13.	13.	17.	5.	11.	11.
%RSD	2.52	2.42	2.53	2.49	2.59	3.32	.919	2.20	2.11
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

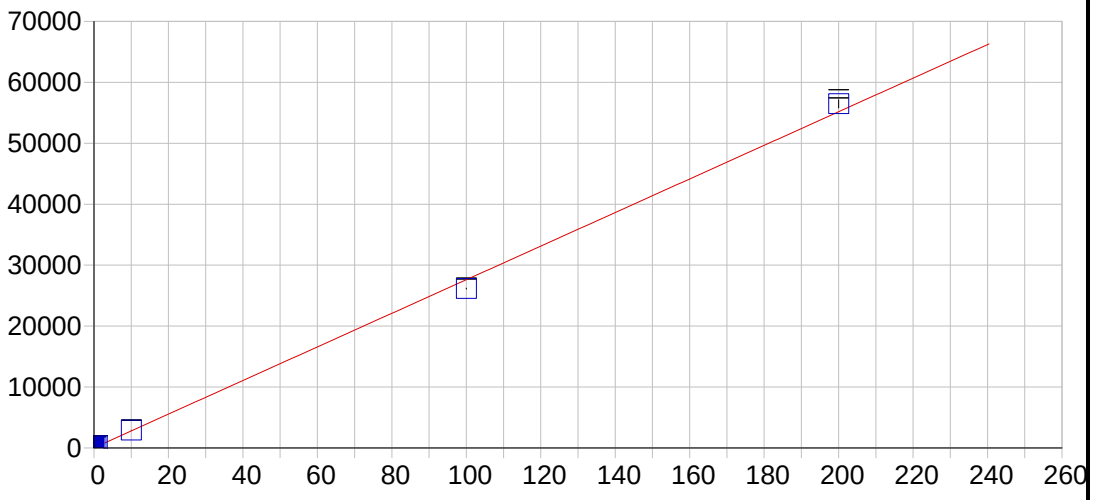
Int. Std.	Y_3600
Avg	**51995.**
Stddev	1137.
%RSD	2.1864

Sample Name: ccb Acquired: 12/03/2010 17:08:57 Type: QC
Method: DOD Calibration 1(v1290) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1890	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**.048**	**7.31**	**1.60**	**1.24**	**.009**	**10.5**	**-.012**	**.489**	**.842**	**-.219**	**3.66**	**3.84**
Stddev	.216	.23	10.5	.29	.051	.1	.131	.217	.571	.690	1.37	.05
%RSD	450.	3.07	658.	23.3	549.	.571	1040.	44.4	67.8	316.	37.4	1.38
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**.752**	**.381**	**.404**	**1.19**	**-.344**	**-4.51**	**3.27**	**.367**	**-1.14**
Stddev	.144	.613	.352	.57	1.10	14.4	3.41	.076	.14
%RSD	19.1	161.	87.3	47.5	321.	320.	104.	20.7	12.1
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**51556.**
Stddev	202.
%RSD	.39225

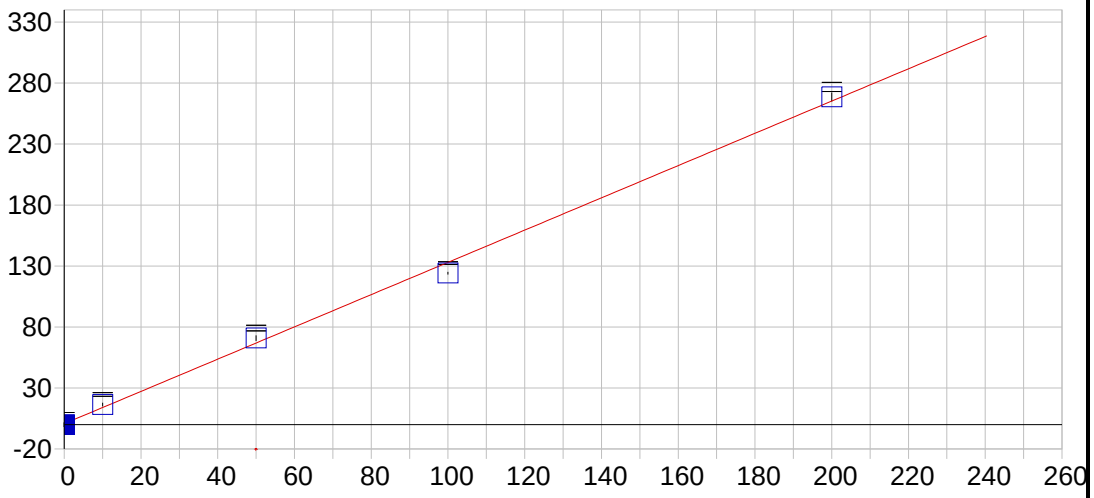


K 766.490 { 44}

Date of Fit:	11/22/2010 12:29:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	41.979862	Re-Slope:	1.000000
A1 (Gain):	275.656701	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999326	Status:	OK.
Std Error of Est:	4.890653		
Predicted MDL:	0.033629		
Predicted MQL:	0.112098		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00010	.000	.000	41.952	11.9	1
CalibStd-1.0	1.0000	1.1270	.127	12.7	352.65	3.62	1
CalibStd-10.0	10.000	10.374	.374	3.74	2901.6	8.64	1
CalibStd-0.5	.50000	.53303	.033	6.61	188.91	4.80	1
CalibStd-100	100.00	94.742	-5.26	-5.26	26158.	78.0	1
CalibStd-200	200.00	204.72	4.72	2.36	56475.	671.	1

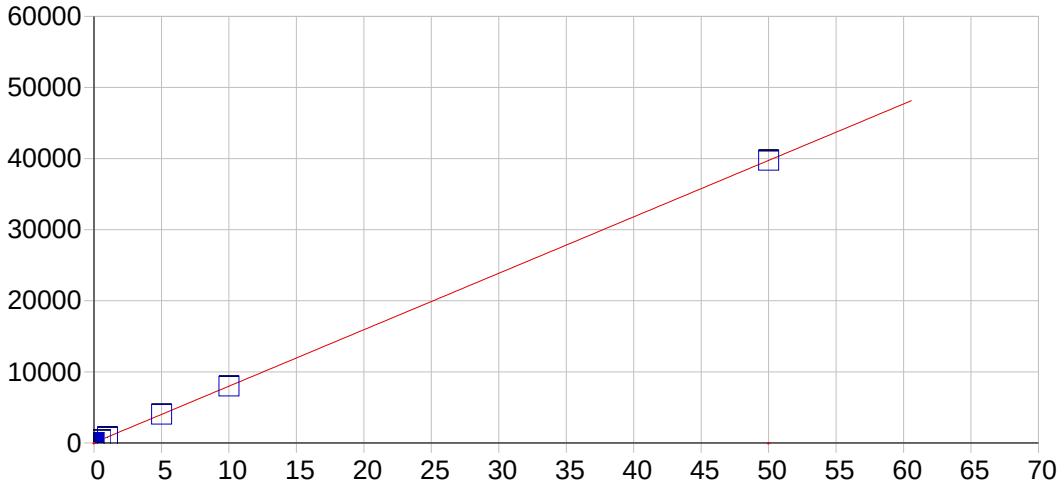


Na 330.237 {102}

Date of Fit:	11/22/2010 07:25:40	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.730901	Re-Slope:	1.000000
A1 (Gain):	1.322714	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998799	Status:	OK.
Std Error of Est:	6.119149		
Predicted MDL:	1.694771		
Predicted MQL:	5.649236		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.65214	-.652	.000	-.13169	1.91	1
CalibStd-200	200.00	202.51	2.51	1.25	268.59	3.70	1
CalibStd-10.0	10.000	11.835	1.84	18.4	16.386	1.52	1
CalibStd-50	50.000	53.017	3.02	6.03	70.858	2.32	1
CalibStd-100	100.00	93.291	-6.71	-6.71	124.13	1.15	1

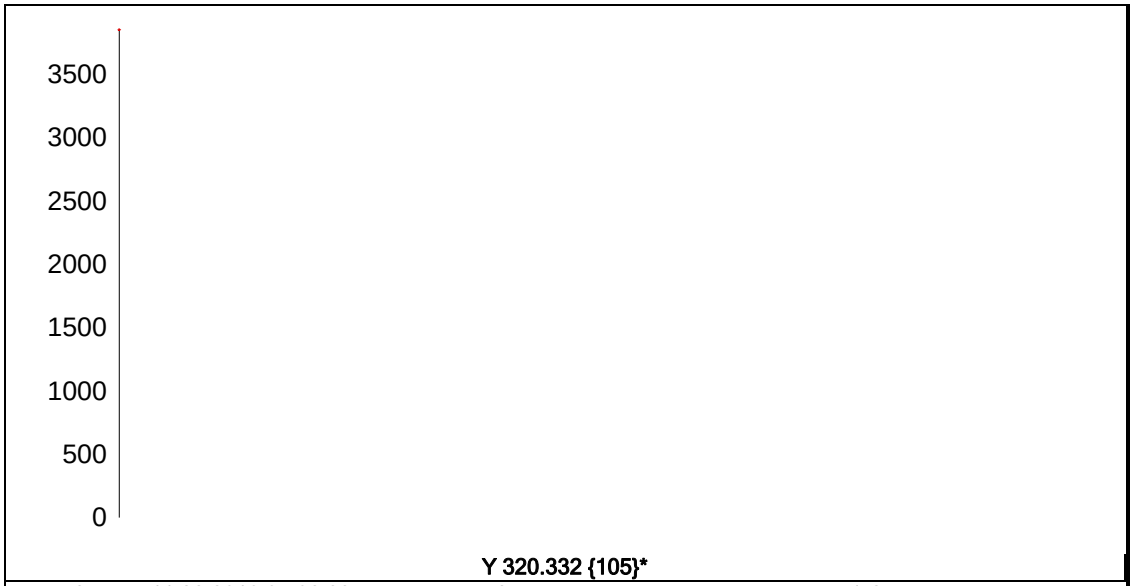


Na 589.592 { 57}

Date of Fit:	11/22/2010 07:20:47	Type of Fit:	Linear	Weighting:	None

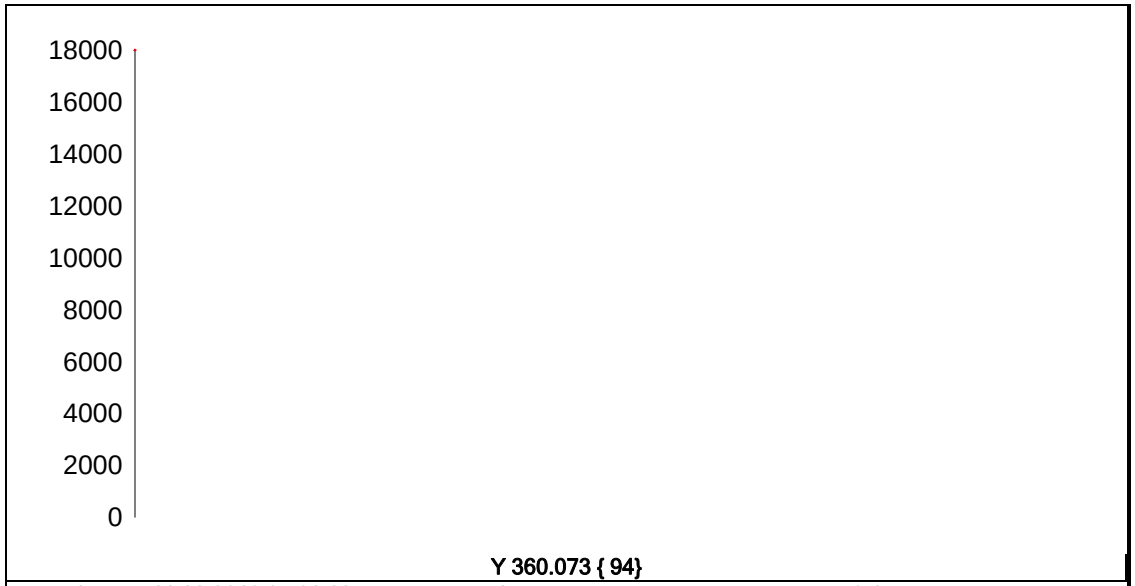
A0 (Offset):	43.502833	Re-Slope:	1.000000
A1 (Gain):	793.980305	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	15.750651		
Predicted MDL:	0.009923		
Predicted MQL:	0.033076		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.01608	.016	.000	56.271	3.39	1
CalibStd-0.5	.50000	.47261	-.027	-5.48	418.75	8.31	1
CalibStd-1.0	1.0000	.99181	-.008	-.819	830.98	6.05	1
CalibStd-5.0	5.0000	5.0222	.022	.445	4031.1	28.1	1
CalibStd-10.0	10.000	9.9988	-.001	-.012	7982.4	31.5	1
CalibStd-50	50.000	49.998	-.002	-.003	39741.	71.2	1



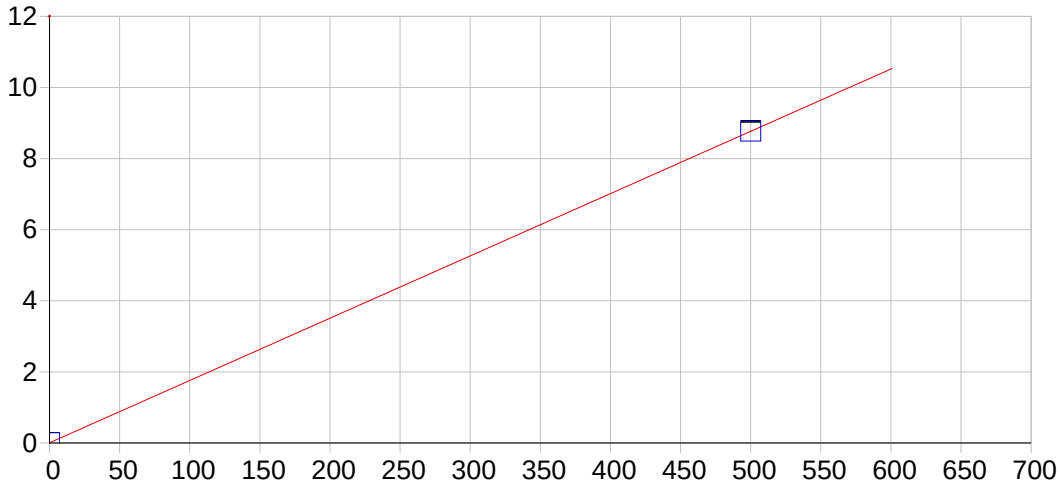
Date of Fit:	11/22/2010 07:08:33	Type of Fit:	Linear	Weighting:	1/Conc	
A0 (Offset):	0.000000		Re-Slope:	1.000000		
A1 (Gain):	0.000000		Y-int:	0.000000		
A2 (Curvature):	0.000000					
n (Exponent):	1.000000					
Correlation:	0.000000		Status:	Warning	Zero Gain	
Std Error of Est:	0.000000					
Predicted MDL:	n/a					
Predicted MQL:	n/a					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	3619.3	9.99	1



Date of Fit:	11/22/2010 07:08:33	Type of Fit:	Linear	Weighting:	1/Conc	
A0 (Offset):	0.000000		Re-Slope:	1.000000		
A1 (Gain):	0.000000		Y-int:	0.000000		
A2 (Curvature):	0.000000					
n (Exponent):	1.000000					
Correlation:	0.000000		Status:	Warning	Zero Gain	
Std Error of Est:	0.000000					
Predicted MDL:	n/a					
Predicted MQL:	n/a					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	16938.	101.	1

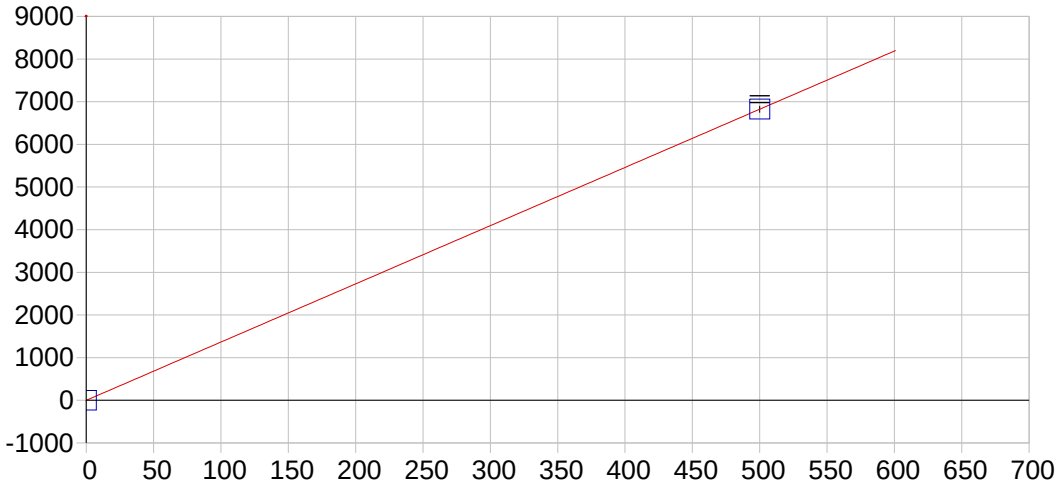


Al 308.215 {109}

Date of Fit:	11/22/2010 07:28:21	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.004072	Re-Slope:	1.000000
A1 (Gain):	0.017526	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.026740		
Predicted MQL:	0.089135		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00407	.000	1
CalibStd-500	500.00	500.00	.000	.000	8.7671	.021	1

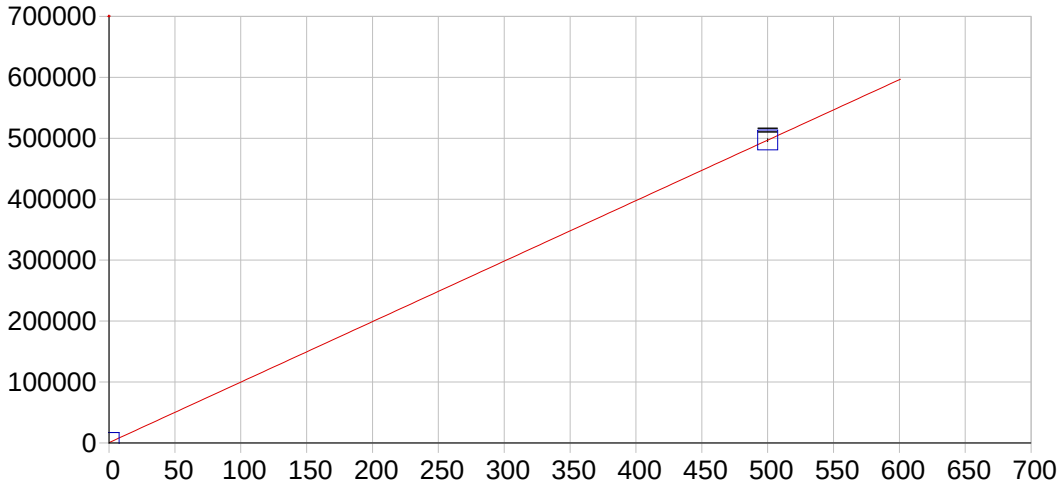


Al 396.152 { 85}

Date of Fit:	11/22/2010 07:28:21	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.548284	Re-Slope:	1.000000
A1 (Gain):	13.645900	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.280652		
Predicted MQL:	0.935506		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.54828	.666	1
CalibStd-500	500.00	500.00	.000	.000	6823.5	80.3	1

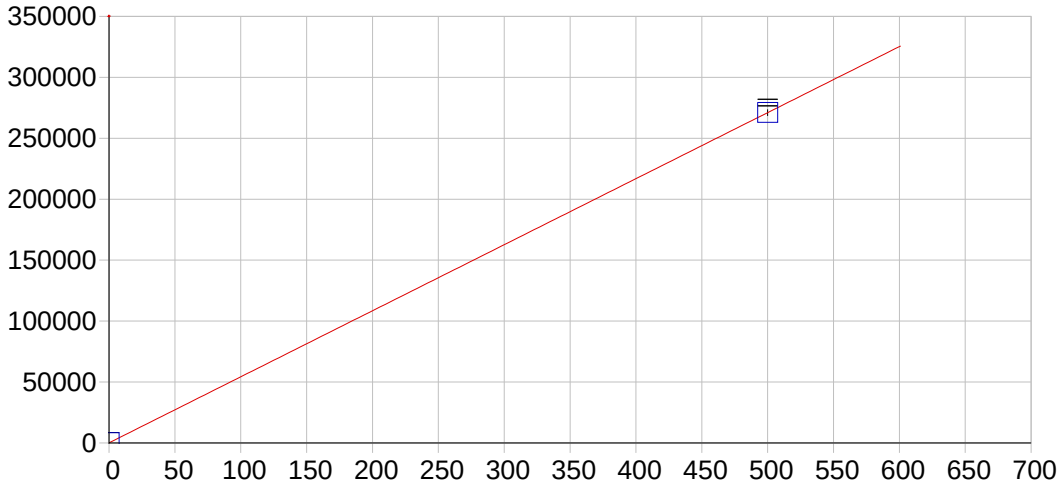


Mg 279.553 {121}

Date of Fit:	11/22/2010 07:28:21	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	579.664443	Re-Slope:	1.000000
A1 (Gain):	992.663774	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.001147		
Predicted MQL:	0.003823		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	579.66	35.0	1
CalibStd-500	500.00	500.00	.000	.000	496910.	2930.	1

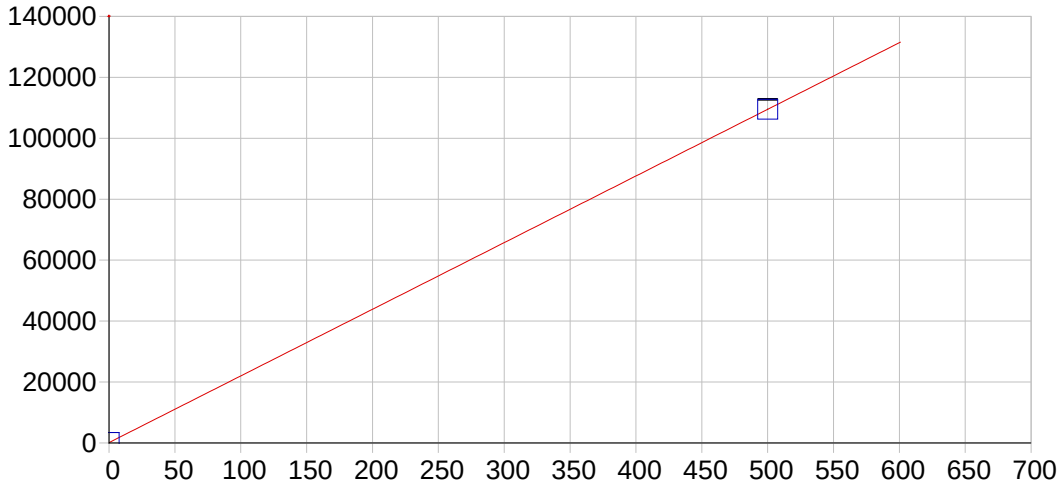


Mg 285.213 {118}

Date of Fit:	11/22/2010 07:28:21	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	90.420758	Re-Slope:	1.000000
A1 (Gain):	541.901541	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.002589		
Predicted MQL:	0.008631		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	90.421	4.78	1
CalibStd-500	500.00	500.00	.000	.000	271040.	2700.	1

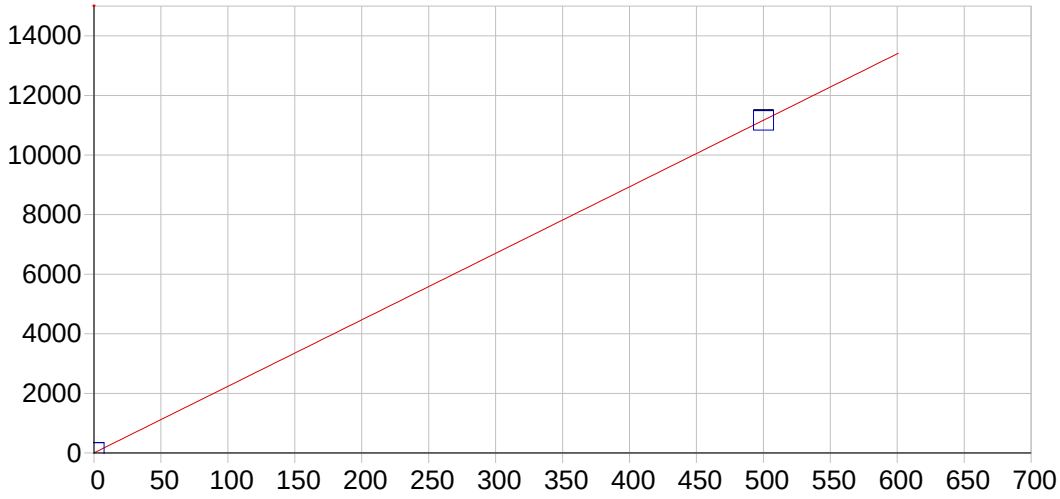


Ca 317.933 {106}

Date of Fit:	11/22/2010 07:28:21	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	122.629336	Re-Slope:	1.000000
A1 (Gain):	218.751299	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.007996		
Predicted MQL:	0.026652		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	122.63	6.17	1
CalibStd-500	500.00	500.00	.000	.000	109500.	205.	1



Fe 234.349 {144}

Date of Fit:	11/22/2010 07:28:21	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	2.908833	Re-Slope:	1.000000
A1 (Gain):	22.326041	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.043846		
Predicted MQL:	0.146154		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	2.9088	.178	1
CalibStd-500	500.00	500.00	.000	.000	11166.	12.7	1

Sample Name: Blank Acquired: 11/22/2010 07:05:58 Type: Cal
Method: Sodium and Potassium 1(v114) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**42.0**	**-.132**	**56.3**	**.548**	**90.4**	**123.**	**2.91**
Stddev	11.9	1.91	3.4	.666	4.8	6.	.18
%RSD	28.4	1450.	6.02	121.	5.29	5.03	6.12

Int. Std.	Y_3203
Units	Cts/S
Avg	**3619.3**
Stddev	10.0
%RSD	.27608

Sample Name: CalibStd-0.5 Acquired: 11/22/2010 07:08:36 Type: Cal
Method: Sodium and Potassium 1(v114) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895
Units	Cts/S	Cts/S
Avg	**189.**	**419.**
Stddev	5.	8.
%RSD	2.54	1.99

Sample Name: CalibStd-1.0 Acquired: 11/22/2010 07:11:04 Type: Cal
Method: Sodium and Potassium 1(v114) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895
Units	Cts/S	Cts/S
Avg	**353.**	**831.**
Stddev	4.	6.
%RSD	1.03	.728

Sample Name: CalibStd-5.0 Acquired: 11/22/2010 07:13:31 Type: Cal
Method: Sodium and Potassium 1(v114) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	Na5895
Units	Cts/S
Avg	**4030.**
Stddev	28.
%RSD	.697

Sample Name: CalibStd-10.0 Acquired: 11/22/2010 07:15:57 Type: Cal
Method: Sodium and Potassium 1(v114) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302	Na5895
Units	Cts/S	Cts/S	Cts/S
Avg	**2900.**	**16.4**	**7980.**
Stddev	9.	1.5	32.
%RSD	.298	9.28	.394

Sample Name: CalibStd-50 Acquired: 11/22/2010 07:18:24 Type: Cal
Method: Sodium and Potassium 1(v114) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	Na3302	Na5895
Units	Cts/S	Cts/S
Avg	**70.9**	**39700.**
Stddev	2.3	71.
%RSD	3.27	.179

Sample Name: CalibStd-100 Acquired: 11/22/2010 07:20:51 Type: Cal
Method: Sodium and Potassium 1(v114) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302
Units	Cts/S	Cts/S
Avg	**26200.**	**124.**
Stddev	78.	1.
%RSD	.298	.929

Sample Name: CalibStd-200 Acquired: 11/22/2010 07:23:18 Type: Cal
Method: Sodium and Potassium 1(v114) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302
Units	Cts/S	Cts/S
Avg	**56500.**	**269.**
Stddev	671.	4.
%RSD	1.19	1.38

Sample Name: CalibStd-500 Acquired: 11/22/2010 07:25:43 Type: Cal
Method: Sodium and Potassium 1(v114) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	Al3961	Mg2852	Ca3179	Fe2343
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6820.**	**271000.**	**109000.**	**11200.**
Stddev	80.	2700.	205.	13.
%RSD	1.18	.995	.187	.114

Int. Std.	Y_3203
Units	Cts/S
Avg	**2995.3**
Stddev	9.9
%RSD	.33074

Sample Name: icv Acquired: 11/22/2010 07:28:24 Type: QC
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**105.**	**101.**	**.105**	**.360**	**.023**	**.501**
Stddev	1.	1.	.142	.003	.006	.095
%RSD	.543	.835	136.	.704	27.9	19.0
#1	104.	100.	-.056	.357	.029	.611
#2	105.	101.	.155	.362	.017	.450
#3	105.	102.	.215	.360	.023	.442
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	**3269.8**
Stddev	13.2
%RSD	.40462
#1	3255.1
#2	3273.5
#3	3280.8

Sample Name: icb Acquired: 11/22/2010 07:30:50 Type: QC
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**.193**	**.016**	**-.090**	**-.124**	**-.428**	**-.086**
Stddev	.020	.005	.175	.000	.001	.019
%RSD	10.4	29.8	194.	.247	.327	21.9
#1	.216	.020	-.272	-.124	-.430	-.091
#2	.178	.017	-.076	-.125	-.427	-.065
#3	.185	.011	.077	-.124	-.428	-.102
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	**3377.7**
Stddev	17.3
%RSD	.51233
#1	3360.0
#2	3394.5
#3	3378.5

Sample Name: mrl Acquired: 11/22/2010 07:33:18 Type: QC
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**5.28**	**1.09**	**.318**	**.491**	**.103**	**.308**
Stddev	.02	.00	.118	.003	.008	.013
%RSD	.400	.397	37.0	.575	7.85	4.11
#1	5.25	1.10	.216	.488	.101	.321
#2	5.30	1.09	.447	.492	.113	.307
#3	5.28	1.09	.291	.493	.097	.296
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	**3338.8**
Stddev	14.3
%RSD	.42777
#1	3324.6
#2	3338.5
#3	3353.2

Sample Name: icsa Acquired: 11/22/2010 07:35:44 Type: QC
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**.000**	**.000**	**538.**	**458.**	**493.**	**473.**
Stddev	.01	.00	1.	1.	3.	2.
%RSD	23e15	20e15	.275	.290	.507	.390
#1	.004	.000	539.	458.	490.	471.
#2	-.011	-.003	540.	457.	493.	474.
#3	.007	.003	537.	459.	495.	474.
Check ?	Chk Pass	Chk Pass	None	None	None	None
High Limit						
Low Limit						

Int. Std.	Y_3203
Units	Cts/S
Avg	**2893.5**
Stddev	6.3
%RSD	.21641
#1	2888.5
#2	2891.4
#3	2900.5

Sample Name: icsab Acquired: 11/22/2010 07:38:26 Type: QC
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**109.**	**97.0**	**517.**	**442.**	**480.**	**462.**
Stddev	.	1.5	6.	4.	8.	6.
%RSD	.394	1.52	1.21	.810	1.65	1.29
#1	109.	98.6	512.	439.	471.	456.
#2	108.	96.6	516.	440.	481.	463.
#3	108.	95.8	524.	446.	487.	468.
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	**2844.4**
Stddev	14.5
%RSD	.51028
#1	2827.6
#2	2851.9
#3	2853.6

Sample Name: lcss35475 Acquired: 11/22/2010 07:41:06 Type: Unk
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**93.6**	**87.6**	**3.39**	**98.2**	**182.**	**2.03**
Stddev	.3	1.3	.36	.7	2.	.04
%RSD	.313	1.53	10.5	.738	1.26	2.00
#1	93.2	88.6	2.98	97.6	180.	1.98
#2	93.7	86.1	3.55	97.9	182.	2.06
#3	93.8	88.1	3.64	99.0	184.	2.04

Int. Std.	Y_3203
Units	Cts/S
Avg	**2993.2**
Stddev	14.2
%RSD	.47460
#1	2978.9
#2	2993.3
#3	3007.3

Sample Name: mbs35475 Acquired: 11/22/2010 07:43:40 Type: Unk
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**.334**	**.000**	**-.070**	**-.110**	**-.355**	**.022**
Stddev	.018	.01	.279	.002	.010	.021
%RSD	5.32	5620.	399.	2.03	2.79	97.0
#1	.339	.004	-.303	-.112	-.361	.047
#2	.350	-.009	.239	-.109	-.361	.008
#3	.315	.005	-.146	-.108	-.344	.011

Int. Std.	Y_3203
Units	Cts/S
Avg	**3217.4**
Stddev	25.1
%RSD	.78135
#1	3193.8
#2	3214.7
#3	3243.9

Sample Name: 870200 Acquired: 11/22/2010 07:46:08 Type: Unk
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**29.0**	**3.55**	**441.**	**140.**	**585.**	**814.**
Stddev	.1	.02	5.	1.	5.	7.
%RSD	.389	.518	1.24	.585	.793	.887
#1	28.8	3.53	443.	139.	583.	808.
#2	29.0	3.56	435.	141.	583.	812.
#3	29.0	3.56	446.	140.	591.	822.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2864.7**
Stddev	14.1
%RSD	.49257
#1	2851.7
#2	2862.7
#3	2879.7

Sample Name: 870201 Acquired: 11/22/2010 07:48:39 Type: Unk
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**37.6**	**2.12**	**465.**	**74.8**	**92.7**	**767.**
Stddev	.4	.01	8.	.3	.9	5.
%RSD	.942	.521	1.70	.337	.991	.652
#1	37.3	2.11	460.	74.5	92.4	765.
#2	37.6	2.12	461.	74.8	92.0	764.
#3	38.0	2.13	474.	75.0	93.8	773.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2951.8**
Stddev	18.1
%RSD	.61253
#1	2936.1
#2	2947.7
#3	2971.6

Sample Name: I870201 Acquired: 11/22/2010 07:51:02 Type: Unk
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**7.91**	**.401**	**72.6**	**16.4**	**20.6**	**188.**
Stddev	.06	.001	.4	.1	.1	1.
%RSD	.691	.371	.615	.372	.426	.570
#1	7.95	.399	73.1	16.4	20.7	189.
#2	7.85	.402	72.2	16.3	20.7	187.
#3	7.92	.402	72.4	16.4	20.6	188.

Int. Std.	Y_3203
Units	Cts/S
Avg	**3261.4**
Stddev	11.0
%RSD	.33743
#1	3257.1
#2	3253.3
#3	3273.9

Sample Name: dup870201 Acquired: 11/22/2010 07:53:26 Type: Unk
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**37.4**	**2.10**	**467.**	**73.9**	**91.5**	**757.**
Stddev	.1	.01	5.	.1	1.0	6.
%RSD	.156	.337	1.07	.149	1.09	.778
#1	37.4	2.11	464.	73.7	90.5	751.
#2	37.3	2.09	464.	73.9	91.6	756.
#3	37.4	2.10	473.	73.9	92.5	762.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2927.4**
Stddev	13.4
%RSD	.45609
#1	2912.5
#2	2931.5
#3	2938.3

Sample Name: mss870201 Acquired: 11/22/2010 07:55:48 Type: Unk
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**126.**	**84.9**	**764.**	**161.**	**260.**	**869.**
Stddev	1.	1.7	11.	1.	5.	13.
%RSD	.551	1.96	1.40	.548	1.84	1.46
#1	125.	83.1	752.	160.	254.	854.
#2	125.	85.4	768.	161.	262.	878.
#3	127.	86.3	772.	162.	262.	874.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2878.3**
Stddev	27.2
%RSD	.94612
#1	2847.8
#2	2887.1
#3	2900.2

Sample Name: msds870201 Acquired: 11/22/2010 07:58:20 Type: Unk
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**125.**	**85.8**	**771.**	**162.**	**262.**	**886.**
Stddev	.	1.5	7.	1.	2.	5.
%RSD	.384	1.69	.848	.602	.775	.584
#1	125.	84.4	763.	162.	260.	881.
#2	125.	87.3	776.	162.	262.	888.
#3	126.	85.8	773.	163.	264.	891.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2901.5**
Stddev	11.7
%RSD	.40428
#1	2896.9
#2	2892.7
#3	2914.8

Sample Name: pdss870201 Acquired: 11/22/2010 08:00:53 Type: Unk
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**134.**	**85.1**	**456.**	**72.6**	**91.7**	**763.**
Stddev	.	.4	4.	.2	.8	7.
%RSD	.325	.495	.839	.281	.882	.858
#1	134.	85.6	457.	72.3	90.8	755.
#2	133.	85.0	452.	72.6	92.0	766.
#3	134.	84.8	459.	72.7	92.3	767.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2970.1**
Stddev	17.2
%RSD	.57901
#1	2951.2
#2	2984.8
#3	2974.3

Sample Name: 870202 Acquired: 11/22/2010 08:03:18 Type: Unk
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**27.9**	**1.26**	**467.**	**94.9**	**145.**	**813.**
Stddev	.2	.01	6.	.3	1.	6.
%RSD	.551	.976	1.33	.321	.929	.726
#1	27.7	1.25	461.	94.8	144.	810.
#2	28.0	1.26	473.	94.7	145.	810.
#3	28.0	1.27	469.	95.3	146.	820.

Int. Std.	Y_3203
Units	Cts/S
Avg	**3028.4**
Stddev	22.7
%RSD	.75021
#1	3003.2
#2	3034.7
#3	3047.3

Sample Name: ccv Acquired: 11/22/2010 08:05:50 Type: QC

Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000

User: NAH ICAP6500: Prep Batch: Post Digestion dilution:

Comment:

Elem	K_7664	Na3302	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**94.7**	**89.7**	**-.247**	**-.148**	**-.411**	**.058**
Stddev	.1	.5	.078	.001	.006	.123
%RSD	.131	.553	31.7	.464	1.47	211.
#1	94.8	89.3	-.303	-.147	-.407	.145
#2	94.6	90.0	-.192	-.148	-.416	-.029
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	3216.9
Stddev	8.7
%RSD	.26965
#1	3210.7
#2	3223.0

Sample Name: ccb Acquired: 11/22/2010 08:08:18 Type: QC
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**.125**	**-.016**	**-.246**	**-.149**	**-.399**	**-.054**
Stddev	.009	.006	.015	.001	.004	.028
%RSD	6.80	37.7	6.27	.693	1.03	52.4
#1	.123	-.016	-.262	-.149	-.398	-.079
#2	.134	-.022	-.231	-.149	-.403	-.023
#3	.118	-.010	-.246	-.147	-.395	-.060
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	**3381.9**
Stddev	6.3
%RSD	.18726
#1	3374.8
#2	3383.9
#3	3387.0

Sample Name: 870203 Acquired: 11/22/2010 08:10:46 Type: Unk
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**24.0**	**.970**	**431.**	**71.8**	**87.9**	**755.**
Stddev	.2	.010	4.	.2	.7	4.
%RSD	.877	.990	1.02	.340	.752	.477
#1	23.8	.964	427.	71.6	87.4	751.
#2	24.2	.964	431.	72.1	87.7	755.
#3	24.0	.981	435.	71.8	88.6	758.

Int. Std.	Y_3203
Units	Cts/S
Avg	**3019.3**
Stddev	11.1
%RSD	.36794
#1	3006.6
#2	3027.2
#3	3024.1

Sample Name: 870204 Acquired: 11/22/2010 08:13:10 Type: Unk
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**32.5**	**2.21**	**450.**	**78.8**	**149.**	**736.**
Stddev	.1	.01	6.	.7	2.	7.
%RSD	.428	.372	1.39	.842	1.43	.992
#1	32.4	2.21	449.	78.2	147.	729.
#2	32.4	2.20	445.	78.7	149.	736.
#3	32.7	2.22	457.	79.5	152.	743.

Int. Std.	Y_3203
Units	Cts/S
Avg	**3032.1**
Stddev	28.2
%RSD	.93141
#1	3007.9
#2	3025.2
#3	3063.1

Sample Name: 870207 Acquired: 11/22/2010 08:15:33 Type: Unk
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**37.0**	**2.34**	**443.**	**88.0**	**158.**	**792.**
Stddev	.1	.02	2.	.2	2.	6.
%RSD	.183	.684	.464	.175	.952	.732
#1	37.1	2.36	445.	88.0	157.	787.
#2	36.9	2.34	441.	87.9	158.	791.
#3	37.0	2.33	443.	88.2	160.	799.

Int. Std.	Y_3203
Units	Cts/S
Avg	**3044.6**
Stddev	17.1
%RSD	.56241
#1	3031.2
#2	3038.7
#3	3063.9

Sample Name: 871184 Acquired: 11/22/2010 08:18:05 Type: Unk
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**22.7**	**3.02**	**289.**	**95.0**	**1600.**	**842.**
Stddev	.1	.00	2.	.4	16.	7.
%RSD	.511	.030	.659	.473	.998	.811
#1	22.6	3.02	287.	94.6	1580.	834.
#2	22.7	3.02	288.	95.5	1600.	847.
#3	22.9	3.02	291.	95.0	1610.	846.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2826.4**
Stddev	19.6
%RSD	.69493
#1	2803.8
#2	2837.6
#3	2837.9

Sample Name: 871186 Acquired: 11/22/2010 08:20:43 Type: Unk
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**18.5**	**3.42**	**124.**	**97.3**	**1480.**	**443.**
Stddev	.0	.02	1.	.5	16.	2.
%RSD	.162	.531	.865	.467	1.09	.499
#1	18.5	3.44	125.	97.1	1460.	442.
#2	18.6	3.40	123.	97.0	1490.	441.
#3	18.6	3.43	124.	97.8	1480.	445.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2919.2**
Stddev	17.4
%RSD	.59522
#1	2911.5
#2	2907.1
#3	2939.1

Sample Name: 871187 Acquired: 11/22/2010 08:23:23 Type: Unk
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**27.6**	**1.42**	**381.**	**79.5**	**904.**	**731.**
Stddev	.1	.01	5.	.5	6.	5.
%RSD	.266	.353	1.19	.584	.706	.658
#1	27.7	1.41	384.	79.0	906.	726.
#2	27.7	1.42	376.	79.8	909.	730.
#3	27.5	1.41	383.	79.7	897.	736.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2878.5**
Stddev	8.9
%RSD	.30762
#1	2873.3
#2	2873.6
#3	2888.8

Sample Name: 871188 Acquired: 11/22/2010 08:25:48 Type: Unk
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**53.9**	**12.7**	**321.**	**235.**	**3390.**	**892.**
Stddev	.1	.0	3.	1.	52.	8.
%RSD	.171	.067	.959	.599	1.53	.853
#1	54.0	12.7	319.	234.	3340.	884.
#2	54.0	12.7	324.	235.	3400.	892.
#3	53.8	12.7	319.	236.	3440.	900.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2582.3**
Stddev	26.0
%RSD	1.0084
#1	2552.7
#2	2592.7
#3	2601.6

Sample Name: 871189 Acquired: 11/22/2010 08:28:29 Type: Unk
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**24.0**	**2.51**	**280.**	**90.3**	**1430.**	**899.**
Stddev	.1	.01	2.	.4	20.	5.
%RSD	.300	.411	.873	.407	1.40	.524
#1	23.9	2.52	278.	90.3	1410.	895.
#2	24.1	2.52	283.	90.6	1430.	898.
#3	24.1	2.50	281.	89.9	1450.	904.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2856.4**
Stddev	9.5
%RSD	.33426
#1	2847.0
#2	2856.0
#3	2866.1

Sample Name: 871190 Acquired: 11/22/2010 08:31:03 Type: Unk
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**39.4**	**1.85**	**368.**	**82.1**	**705.**	**780.**
Stddev	.1	.01	3.	.6	4.	5.
%RSD	.330	.280	.789	.733	.609	.620
#1	39.3	1.85	370.	81.4	700.	775.
#2	39.3	1.84	365.	82.2	705.	779.
#3	39.5	1.85	370.	82.6	709.	785.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2953.6**
Stddev	27.0
%RSD	.91435
#1	2922.8
#2	2964.9
#3	2973.2

Sample Name: 871191 Acquired: 11/22/2010 08:33:27 Type: Unk
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**43.6**	**5.93**	**213.**	**129.**	**2790.**	**964.**
Stddev	.3	.05	1.	1.	19.	7.
%RSD	.704	.828	.391	.941	.664	.680
#1	43.3	5.88	212.	128.	2770.	957.
#2	43.8	5.94	214.	129.	2790.	963.
#3	43.8	5.98	213.	130.	2810.	970.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2645.7**
Stddev	23.4
%RSD	.88410
#1	2620.4
#2	2650.2
#3	2666.5

Sample Name: ccv Acquired: 11/22/2010 08:36:08 Type: QC
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**104.**	**100.**	**.329**	**.348**	**.279**	**.592**
Stddev	.	1.	.226	.002	.020	.072
%RSD	.253	.766	68.8	.667	7.07	12.1
#1	104.	101.	.223	.348	.301	.674
#2	104.	99.6	.176	.351	.271	.563
#3	104.	101.	.589	.346	.264	.540
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	**3301.1**
Stddev	18.5
%RSD	.56145
#1	3280.7
#2	3316.8
#3	3306.0

Sample Name: ccb Acquired: 11/22/2010 08:38:35 Type: QC
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**.110**	**-.019**	**-.142**	**-.147**	**-.132**	**.001**
Stddev	.022	.008	.140	.003	.026	.016
%RSD	19.8	43.6	98.4	1.81	19.3	1490.
#1	.130	-.029	-.006	-.144	-.103	-.003
#2	.113	-.012	-.286	-.148	-.148	.019
#3	.087	-.017	-.134	-.149	-.146	-.013
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	**3611.4**
Stddev	370.6
%RSD	10.260
#1	4034.3
#2	3343.6
#3	3456.4

Sample Name: 871192 Acquired: 11/22/2010 08:41:03 Type: Unk
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**26.1**	**1.56**	**299.**	**82.8**	**1240.**	**640.**
Stddev	.2	.01	3.	.6	11.	6.
%RSD	.654	.643	1.04	.719	.847	1.01
#1	26.1	1.55	297.	82.4	1230.	633.
#2	26.0	1.55	298.	82.5	1240.	642.
#3	26.3	1.57	303.	83.5	1250.	645.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2890.3**
Stddev	31.4
%RSD	1.0864
#1	2859.4
#2	2889.4
#3	2922.2

Sample Name: 871193 Acquired: 11/22/2010 08:43:35 Type: Unk
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**24.7**	**1.75**	**293.**	**105.**	**1230.**	**650.**
Stddev	.1	.01	1.	.	13.	4.
%RSD	.214	.298	.264	.331	1.02	.627
#1	24.7	1.76	293.	105.	1210.	646.
#2	24.6	1.75	294.	105.	1240.	653.
#3	24.8	1.75	292.	106.	1230.	653.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2925.3**
Stddev	15.5
%RSD	.52940
#1	2907.9
#2	2930.3
#3	2937.6

Sample Name: 871194 Acquired: 11/22/2010 08:46:16 Type: Unk
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**28.3**	**2.48**	**113.**	**61.9**	**476.**	**477.**
Stddev	.1	.01	1.	.2	4.	3.
%RSD	.421	.407	1.15	.398	.790	.592
#1	28.2	2.47	113.	61.7	474.	475.
#2	28.4	2.48	111.	62.2	473.	476.
#3	28.4	2.49	114.	61.9	480.	481.

Int. Std.	Y_3203
Units	Cts/S
Avg	**3096.2**
Stddev	25.8
%RSD	.83297
#1	3068.7
#2	3100.0
#3	3119.8

Sample Name: 871195 Acquired: 11/22/2010 08:48:41 Type: Unk
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**15.8**	**1.41**	**85.7**	**50.0**	**302.**	**523.**
Stddev	.0	.01	.9	.2	3.	4.
%RSD	.178	.552	1.03	.452	.828	.770
#1	15.8	1.42	85.8	49.7	299.	519.
#2	15.8	1.40	84.7	49.9	301.	522.
#3	15.8	1.40	86.5	50.2	304.	527.

Int. Std.	Y_3203
Units	Cts/S
Avg	**3118.0**
Stddev	20.5
%RSD	.65802
#1	3101.9
#2	3110.9
#3	3141.1

Sample Name: 871196 Acquired: 11/22/2010 08:51:05 Type: Unk
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**14.4**	**1.40**	**65.0**	**48.2**	**1230.**	**379.**
Stddev	.0	.00	.6	.2	24.	3.
%RSD	.288	.278	.885	.516	1.96	.839
#1	14.4	1.40	64.5	47.9	1200.	375.
#2	14.3	1.40	64.9	48.2	1240.	381.
#3	14.4	1.40	65.6	48.4	1250.	381.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2989.8**
Stddev	11.8
%RSD	.39455
#1	2977.3
#2	2991.4
#3	3000.7

Sample Name: 871197 Acquired: 11/22/2010 08:53:38 Type: Unk
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**16.5**	**2.80**	**98.5**	**89.6**	**1610.**	**443.**
Stddev	.1	.01	1.1	.4	10.	5.
%RSD	.462	.345	1.12	.404	.611	1.02
#1	16.4	2.79	97.4	89.2	1600.	438.
#2	16.5	2.80	99.6	89.7	1610.	444.
#3	16.5	2.81	98.6	89.9	1620.	447.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2910.5**
Stddev	32.3
%RSD	1.1107
#1	2912.9
#2	2877.0
#3	2941.5

Sample Name: 871198 Acquired: 11/22/2010 08:56:10 Type: Unk
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**38.3**	**4.64**	**285.**	**115.**	**1790.**	**928.**
Stddev	.1	.01	3.	1.	25.	5.
%RSD	.210	.319	1.20	.624	1.37	.585
#1	38.2	4.63	289.	115.	1760.	923.
#2	38.3	4.65	282.	116.	1810.	926.
#3	38.4	4.66	284.	116.	1810.	934.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2816.2**
Stddev	19.2
%RSD	.68004
#1	2794.1
#2	2826.9
#3	2827.6

Sample Name: ccv Acquired: 11/22/2010 09:06:42 Type: QC
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**103.**	**102.**	**.248**	**.385**	**.192**	**.576**
Stddev	1.	1.	.182	.004	.009	.050
%RSD	.844	1.03	73.4	1.09	4.86	8.62
#1	102.	102.	.337	.388	.195	.633
#2	104.	103.	.039	.380	.198	.558
#3	104.	101.	.367	.386	.181	.539
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	3291.6
Stddev	17.5
%RSD	.53048
#1	3271.9
#2	3304.9
#3	3298.2

Sample Name: ccb Acquired: 11/22/2010 09:09:08 Type: QC
Method: Sodium and Potassium 1(v114) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**.100**	**-.016**	**-.204**	**-.129**	**-.305**	**-.042**
Stddev	.026	.007	.143	.004	.008	.023
%RSD	26.0	42.4	70.1	2.78	2.75	54.0
#1	.130	-.014	-.304	-.125	-.299	-.030
#2	.086	-.023	-.040	-.129	-.302	-.068
#3	.084	-.011	-.268	-.132	-.315	-.028
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	3429.2
Stddev	10.4
%RSD	.30404
#1	3417.2
#2	3434.3
#3	3436.0

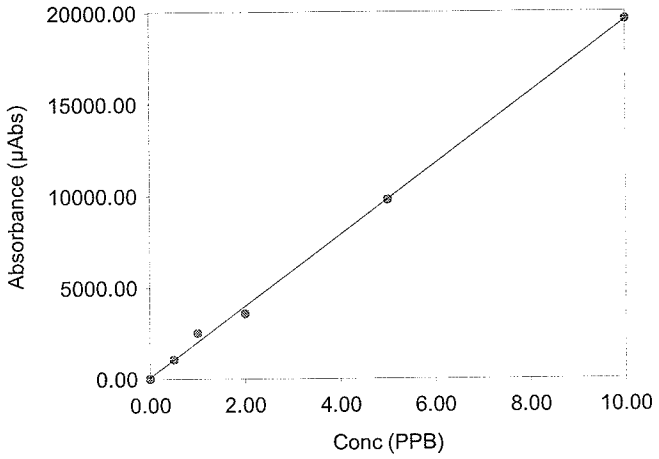
CETAC Hg Analysis Report - 10112400.DB - 11/24/2010, 10:46:48

Analyst
Date Started 11/24/2010, 09:21:36
Worksheet 7471 Soil (10ppb as high std)
Comment

* All concentrations are dilution corrected.

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
Calibration Zero	24-Nov-2010, 09:21	0.00	15.20	17.00	14	17	20	18	
Standard #1	24-Nov-2010, 09:23	0.50	4.42	1050.00	986	1051	1082	1086	
Standard #2	24-Nov-2010, 09:25	1.00	3.66	2500.00	2373	2513	2557	2576	
Standard #3	24-Nov-2010, 09:27	2.00	17.50	3560.00	2687	3537	3948	4061	
Standard #4	24-Nov-2010, 09:29	5.00	3.63	9770.00	9251	9837	9957	10029	
Standard #5	24-Nov-2010, 09:30	10.00	4.71	19600.00	18297	19613	20098	20378	

Calibration Data



Int.	84.202
Slope	1945.445
Correlation	0.99926

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
ICV	24-Nov-2010, 09:35	2.93	4.55	5790.00	5410	5827	5924	5986	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
ICB	24-Nov-2010, 09:37	-0.03	3.61	16.50	20	14	16	16	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
MRL	24-Nov-2010, 09:39	0.17	5.41	405.00	381	407	413	421	
874583 LCSS35531	24-Nov-2010, 09:40	1.89	5.53	3760.00	3457	3799	3871	3895	
874582 MBS35531	24-Nov-2010, 09:42	-0.04	1.91	9.28	10	9	8	11	
870200	24-Nov-2010, 09:44	2.07	5.82	4110.00	3772	4127	4262	4274	
870201	24-Nov-2010, 09:46	0.94	12.90	1920.00	1588	1915	2052	2121	
L870201	24-Nov-2010, 09:48	0.16	15.90	399.00	328	401	427	441	
DUP870201	24-Nov-2010, 09:50	0.90	6.69	1830.00	1669	1835	1856	1950	
MSS870201	24-Nov-2010, 09:51	2.54	13.30	5030.00	4098	5059	5422	5549	
MSDS870201	24-Nov-2010, 09:53	2.93	7.93	5780.00	5120	5846	6034	6108	
PDSS870201	24-Nov-2010, 09:55	1.78	7.89	3560.00	3150	3642	3732	3703	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
CCV	24-Nov-2010, 09:57	2.69	10.20	5320.00	4576	5313	5577	5804	Q

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
CCB	24-Nov-2010, 09:59	-0.05	3.89	-22.20	-17	-23	-22	-27	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
870202	24-Nov-2010, 10:01	0.78	5.13	1590.00	1498	1583	1615	1685	
870203	24-Nov-2010, 10:03	1.00	8.79	2020.00	1786	2014	2133	2161	
870204	24-Nov-2010, 10:05	1.18	14.40	2380.00	1981	2251	2572	2719	
870207	24-Nov-2010, 10:06	0.98	5.49	1990.00	1837	1996	2048	2067	
871184	24-Nov-2010, 10:08	0.97	7.02	1970.00	1782	1990	2042	2078	
871186	24-Nov-2010, 10:10	0.17	19.40	413.00	363	385	397	506	
871187	24-Nov-2010, 10:12	0.92	9.61	1870.00	1642	1845	1978	2026	
871188	24-Nov-2010, 10:14	0.78	4.37	1600.00	1504	1614	1645	1642	
871189	24-Nov-2010, 10:16	1.22	7.31	2450.00	2205	2466	2558	2585	

CETAC Hg Analysis Report - 10112400.DB - 11/24/2010, 10:46:48

Analyst
Date Started 11/24/2010, 10:18:04
Worksheet 7471 Soil (10ppb as high std)
Comment

* All concentrations are dilution corrected.

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
871190	24-Nov-2010, 10:18	0.84	4.03	1720.00	1627	1747	1756	1769	
CCV	24-Nov-2010, 10:19	2.43	27.90	4820.00	3082	4529	5647	6015	Q
CCB	24-Nov-2010, 10:21	-0.04	5.74	-0.13	-6	-2	2	5	
871191	24-Nov-2010, 10:23	1.35	8.99	2710.00	2391	2693	2854	2921	
871192	24-Nov-2010, 10:25	0.77	9.13	1580.00	1383	1609	1669	1673	
871193	24-Nov-2010, 10:27	0.70	10.90	1440.00	1229	1457	1534	1550	
871194	24-Nov-2010, 10:29	0.23	22.70	536.00	391	538	597	618	
871195	24-Nov-2010, 10:31	0.18	16.50	439.00	355	445	477	481	
871196	24-Nov-2010, 10:33	0.14	8.05	357.00	329	350	368	379	
871197	24-Nov-2010, 10:35	0.56	8.36	1160.00	1040	1159	1218	1242	
871198	24-Nov-2010, 10:36	0.81	26.10	1660.00	1257	1430	1764	2189	
874620 LCSS35532	24-Nov-2010, 10:38	1.72	17.90	3430.00	2558	3518	3805	3834	
874619 MBS35532	24-Nov-2010, 10:40	-0.04	5.18	2.39	-3	2	7	3	
CCV	24-Nov-2010, 10:42	2.65	14.40	5230.00	4163	5298	5681	5782	Q
CCB	24-Nov-2010, 10:44	-0.04	4.55	2.04	-2	-0	6	5	

METALS
LOGBOOK
DOCUMENTS

MICP SOIL QSM Analytical Run
71910 on 12/6/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	876018						ICP QSM				
				L 870201							
	874986						MICP SOIL QSM				
				ICV				0			
	874979						MICP SOIL QSM				
				ICB				0			
	874988						MICP SOIL QSM				
				MRL				0			
	874989						MICP SOIL QSM				
				ICSA				0			
	874990						MICP SOIL QSM				
				ICSAB				0			
	874993						MICP SOIL QSM				
				CCV				0			
	875079						MICP SOIL QSM				
				CCV				0			
	875080						MICP SOIL QSM				
				CCB				0			
	873323						ICP QSM				
				LCSS				35475			
	875077						MICP SOIL QSM				
				CCV				0			
	875081						MICP SOIL QSM				
				CCV				0			
	875082						MICP SOIL QSM				
				CCB				0			
	873322						ICP QSM				
				MBS				35475			
82424	870200		11/9/2010 0920				ICP QSM		S	**4**	
		DLASS-005-0001-SO						35475			
82424	870201		11/9/2010 1525				ICP QSM		S	**4**	
		DLASS-014-0001-SO		Designated MS/MSD				35475			
	875083						ICP QSM				
				L 870201				0			
	873481		11/9/2010 1525				ICP QSM				
		DLASS-014-0001-SO		DUP 870201				35475			
	873483		11/9/2010 1525				ICP QSM				
		DLASS-014-0001-SO		MSS 870201				35475			
RERUN		DLASS-014-0001-SO		MSS 870201				35475			

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MICP SOIL QSM Analytical Run
71910 on 12/6/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)		CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	873484		11/9/2010 1525					ICP QSM				
		DLASS-014-0001-SO		MSDS	873483				35475			
RERUN		DLASS-014-0001-SO		MSDS	873483				35475			
	875084							ICP QSM				
				PDSS	870201				0			
	877665							ICP QSM				
				PDSS	870201							
82424	870202		11/9/2010 1500					ICP QSM		S	4	
		DLASS-011-0001-SO							35475			
82424	870203		11/9/2010 1535					ICP QSM		S	4	
		DLASS-014-0003-SO							35475			
	874994							MICP SOIL QSM				
				CCV					0			
	875746							MICP SOIL QSM				
				CCV					0			
	875747							MICP SOIL QSM				
				CCB					0			
82424	870204		11/10/2010 1316					ICP QSM		S	4	
		DLASS-030-0001-SO							35475			
82424	870207		11/9/2010 1600					ICP QSM		S	4	
		DLASS-026-0001-SO							35475			
82458	871184		11/11/2010 0900			USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S	4	
		DLASS-032-0003-SO							35475			
82458	871186		11/11/2010 1230			USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S	4	
		DLASS-042-0003-SO							35475			
82458	871187		11/11/2010 0931			USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S	4	
		DLASS-035-0001-SO							35475			
82458	871188		11/11/2010 1045			USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S	4	
		DLASS-036-0001-SO							35475			
82458	871189		11/11/2010 0945			USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S	4	
		DLASS-031-0001-SO							35475			
82458	871190		11/11/2010 1000			USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S	4	
		DLASS-039-0001-SO							35475			
82458	871191		11/11/2010 1310			USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S	4	
		DLASS-037-0001-SO							35475			
82458	871192		11/11/2010 1030			USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S	4	
		DLASS-034-0001-SO							35475			
	874996							MICP SOIL QSM				
				CCV					0			

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MICP SOIL QSM Analytical Run
71910 on 12/6/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	875748						MICP SOIL QSM				
				CCV				0			
	875749						MICP SOIL QSM				
				CCB				0			
82458	871193		11/11/2010 1043		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S		**4**
		DLASS-038-0001-SO						35475			
82458	871194		11/11/2010 1235		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S		**4**
		DLASS-044-0001-SO						35475			
82458	871195		11/11/2010 1020		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S		**4**
		DLASS-041-0001-SO						35475			
82458	871196		11/11/2010 0920		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S		**4**
		DLASS-040-0001-SO						35475			
82458	871197		11/11/2010 1220		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S		**4**
		DLASS-042-0001-SO						35475			
82458	871198		11/11/2010 0900		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S		**4**
		DLASS-032-0001-SO						35475			
	875752						MICP SOIL QSM				
				CCV				0			
	875750						MICP SOIL QSM				
				CCV				0			
	875751						MICP SOIL QSM				
				CCB				0			
82424	870207		11/9/2010 1600				ICP QSM		S		**4**
RERUN		DLASS-026-0001-SO						35475			
82458	871184		11/11/2010 0900		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S		**4**
RERUN		DLASS-032-0003-SO						35475			
82458	871187		11/11/2010 0931		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S		**4**
RERUN		DLASS-035-0001-SO						35475			
82458	871188		11/11/2010 1045		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S		**4**
RERUN		DLASS-036-0001-SO						35475			
RERUN		DLASS-036-0001-SO						35475			
82458	871190		11/11/2010 1000		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S		**4**
RERUN		DLASS-039-0001-SO						35475			
82458	871191		11/11/2010 1310		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S		**4**
RERUN		DLASS-037-0001-SO						35475			
82458	871192		11/11/2010 1030		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S		**4**
RERUN		DLASS-034-0001-SO						35475			
82458	871193		11/11/2010 1043		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S		**4**
RERUN		DLASS-038-0001-SO						35475			

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MICP SOIL QSM Analytical Run
71910 on 12/6/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
82458	871194		11/11/2010 1235		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S	**4**	
RERUN		DLASS-044-0001-SO						35475			
82458	871197		11/11/2010 1220		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S	**4**	
RERUN		DLASS-042-0001-SO						35475			
82458	871198		11/11/2010 0900		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S	**4**	
RERUN		DLASS-032-0001-SO						35475			
	877034						MICP SOIL QSM				
				ICV				0			
	877035						MICP SOIL QSM				
				ICB				0			
	877036						MICP SOIL QSM				
				MRL				0			
	877037						MICP SOIL QSM				
				ICSA				0			
	877038						MICP SOIL QSM				
				ICSAB				0			
	873323						ICP QSM				
RERUN				LCSS				35475			
RERUN				LCSS				35475			
	873322						ICP QSM				
RERUN				MBS				35475			
RERUN				MBS				35475			
82424	870200		11/9/2010 0920				ICP QSM		S	**4**	
RERUN		DLASS-005-0001-SO						35475			
RERUN		DLASS-005-0001-SO						35475			
RERUN		DLASS-005-0001-SO						35475			
82424	870201		11/9/2010 1525				ICP QSM		S	**4**	
RERUN		DLASS-014-0001-SO		Designated MS/MSD				35475			
RERUN		DLASS-014-0001-SO		Designated MS/MSD				35475			
RERUN		DLASS-014-0001-SO		Designated MS/MSD				35475			
	877657						ICP QSM				
				L 870201							
	873481		11/9/2010 1525				ICP QSM				
RERUN		DLASS-014-0001-SO		DUP 870201				35475			
RERUN		DLASS-014-0001-SO		DUP 870201				35475			
RERUN		DLASS-014-0001-SO		DUP 870201				35475			
	873483		11/9/2010 1525				ICP QSM				
RERUN		DLASS-014-0001-SO		MSS 870201				35475			
RERUN		DLASS-014-0001-SO		MSS 870201				35475			

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MICP SOIL QSM Analytical Run
71910 on 12/6/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)		CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	873484		11/9/2010 1525					ICP QSM				
RERUN		DLASS-014-0001-SO		MSDS	873483				35475			
RERUN		DLASS-014-0001-SO		MSDS	873483				35475			
	876019							ICP QSM				
				PDSS	870201							
	877055							MICP SOIL QSM				
				CCV					0			
	877041							MICP SOIL QSM				
				CCV					0			
	877042							MICP SOIL QSM				
				CCB					0			
82424	870202		11/9/2010 1500					ICP QSM		S	**4**	
RERUN		DLASS-011-0001-SO							35475			
RERUN		DLASS-011-0001-SO							35475			
RERUN		DLASS-011-0001-SO							35475			
82424	870203		11/9/2010 1535					ICP QSM		S	**4**	
RERUN		DLASS-014-0003-SO							35475			
RERUN		DLASS-014-0003-SO							35475			
RERUN		DLASS-014-0003-SO							35475			
82424	870204		11/10/2010 1316					ICP QSM		S	**4**	
RERUN		DLASS-030-0001-SO							35475			
RERUN		DLASS-030-0001-SO							35475			
RERUN		DLASS-030-0001-SO							35475			
82424	870207		11/9/2010 1600					ICP QSM		S	**4**	
RERUN		DLASS-026-0001-SO							35475			
RERUN		DLASS-026-0001-SO							35475			
RERUN		DLASS-026-0001-SO							35475			
82458	871184		11/11/2010 0900			USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S	**4**	
RERUN		DLASS-032-0003-SO							35475			
RERUN		DLASS-032-0003-SO							35475			
RERUN		DLASS-032-0003-SO							35475			
RERUN		DLASS-032-0003-SO							35475			
82458	871186		11/11/2010 1230			USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S	**4**	
RERUN		DLASS-042-0003-SO							35475			
RERUN		DLASS-042-0003-SO							35475			
RERUN		DLASS-042-0003-SO							35475			
82458	871187		11/11/2010 0931			USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S	**4**	
RERUN		DLASS-035-0001-SO							35475			
RERUN		DLASS-035-0001-SO							35475			
RERUN		DLASS-035-0001-SO							35475			

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MICP SOIL QSM Analytical Run
71910 on 12/6/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
82458	871188		11/11/2010 1045		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S	**4**	
RERUN		DLASS-036-0001-SO						35475			
RERUN		DLASS-036-0001-SO						35475			
RERUN		DLASS-036-0001-SO						35475			
82458	871189		11/11/2010 0945		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S	**4**	
RERUN		DLASS-031-0001-SO						35475			
RERUN		DLASS-031-0001-SO						35475			
RERUN		DLASS-031-0001-SO						35475			
82458	871190		11/11/2010 1000		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S	**4**	
RERUN		DLASS-039-0001-SO						35475			
RERUN		DLASS-039-0001-SO						35475			
RERUN		DLASS-039-0001-SO						35475			
	877053						MICP SOIL QSM				
				CCV				0			
	877043						MICP SOIL QSM				
				CCV				0			
	877044						MICP SOIL QSM				
				CCB				0			
82458	871191		11/11/2010 1310		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S	**4**	
RERUN		DLASS-037-0001-SO						35475			
RERUN		DLASS-037-0001-SO						35475			
RERUN		DLASS-037-0001-SO						35475			
82458	871192		11/11/2010 1030		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S	**4**	
RERUN		DLASS-034-0001-SO						35475			
RERUN		DLASS-034-0001-SO						35475			
RERUN		DLASS-034-0001-SO						35475			
82458	871193		11/11/2010 1043		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S	**4**	
RERUN		DLASS-038-0001-SO						35475			
RERUN		DLASS-038-0001-SO						35475			
RERUN		DLASS-038-0001-SO						35475			
RERUN		DLASS-038-0001-SO						35475			
RERUN		DLASS-038-0001-SO						35475			
82458	871194		11/11/2010 1235		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S	**4**	
RERUN		DLASS-044-0001-SO						35475			
RERUN		DLASS-044-0001-SO						35475			
RERUN		DLASS-044-0001-SO						35475			
RERUN		DLASS-044-0001-SO						35475			
RERUN		DLASS-044-0001-SO						35475			

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MICP SOIL QSM Analytical Run
71910 on 12/6/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
82458	871195		11/11/2010 1020		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S	**4**	
RERUN		DLASS-041-0001-SO						35475			
RERUN		DLASS-041-0001-SO						35475			
RERUN		DLASS-041-0001-SO						35475			
RERUN		DLASS-041-0001-SO						35475			
RERUN		DLASS-041-0001-SO						35475			
82458	871196		11/11/2010 0920		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S	**4**	
RERUN		DLASS-040-0001-SO						35475			
RERUN		DLASS-040-0001-SO						35475			
RERUN		DLASS-040-0001-SO						35475			
RERUN		DLASS-040-0001-SO						35475			
RERUN		DLASS-040-0001-SO						35475			
82458	871197		11/11/2010 1220		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S	**4**	
RERUN		DLASS-042-0001-SO						35475			
RERUN		DLASS-042-0001-SO						35475			
RERUN		DLASS-042-0001-SO						35475			
RERUN		DLASS-042-0001-SO						35475			
82458	871198		11/11/2010 0900		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP QSM		S	**4**	
RERUN		DLASS-032-0001-SO						35475			
RERUN		DLASS-032-0001-SO						35475			
RERUN		DLASS-032-0001-SO						35475			
RERUN		DLASS-032-0001-SO						35475			
RERUN		DLASS-032-0001-SO						35475			
RERUN		DLASS-032-0001-SO						35475			
	877051						MICP SOIL QSM				
				CCV				0			
	877045						MICP SOIL QSM				
				CCV				0			
	877046						MICP SOIL QSM				
				CCB				0			
82424	870204		11/10/2010 1316				ICP QSM		S	**4**	
RERUN		DLASS-030-0001-SO						35475			

164 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MICP SOIL QSM Analytical Run
71911 on 12/6/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	874795						MICP SOIL QSM				
				ICV				0			
	874796						MICP SOIL QSM				
				ICB				0			
	874797						MICP SOIL QSM				
				MRL				0			
	874798						MICP SOIL QSM				
				ICSA				0			
	874799						MICP SOIL QSM				
				ICSAB				0			
	873323						ICP K QSM				
				LCSS				35475			
	873323						ICP NA QSM				
				LCSS				35475			
	873322						ICP K QSM				
				MBS				35475			
	873322						ICP NA QSM				
				MBS				35475			
82424	870200		11/9/2010 0920				ICP K QSM		S		**4**
		DLASS-005-0001-SO						35475			
82424	870200		11/9/2010 0920				ICP NA QSM		S		**4**
		DLASS-005-0001-SO						35475			
82424	870201		11/9/2010 1525				ICP K QSM		S		**4**
		DLASS-014-0001-SO		Designated MS/MSD				35475			
82424	870201		11/9/2010 1525				ICP NA QSM		S		**4**
		DLASS-014-0001-SO		Designated MS/MSD				35475			
	874800						ICP K QSM				
				L	870201			0			
	874800						ICP NA QSM				
				L	870201			0			
	873481		11/9/2010 1525				ICP K QSM				
		DLASS-014-0001-SO		DUP	870201			35475			
	873481		11/9/2010 1525				ICP NA QSM				
		DLASS-014-0001-SO		DUP	870201			35475			
	873483		11/9/2010 1525				ICP K QSM				
		DLASS-014-0001-SO		MSS	870201			35475			
	873483		11/9/2010 1525				ICP NA QSM				
		DLASS-014-0001-SO		MSS	870201			35475			

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MICP SOIL QSM Analytical Run
71911 on 12/6/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)		CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	873484		11/9/2010 1525					ICP K QSM				
		DLASS-014-0001-SO		MSDS	873483				35475			
	873484		11/9/2010 1525					ICP NA QSM				
		DLASS-014-0001-SO		MSDS	873483				35475			
	874801							ICP K QSM				
				PDSS	870201				0			
	874801							ICP NA QSM				
				PDSS	870201				0			
82424	870202		11/9/2010 1500					ICP K QSM		S	4	
		DLASS-011-0001-SO							35475			
82424	870202		11/9/2010 1500					ICP NA QSM		S	4	
		DLASS-011-0001-SO							35475			
	874802							MICP SOIL QSM				
				CCV					0			
	874803							MICP SOIL QSM				
				CCB					0			
82424	870203		11/9/2010 1535					ICP K QSM		S	4	
		DLASS-014-0003-SO							35475			
82424	870203		11/9/2010 1535					ICP NA QSM		S	4	
		DLASS-014-0003-SO							35475			
82424	870204		11/10/2010 1316					ICP K QSM		S	4	
		DLASS-030-0001-SO							35475			
82424	870204		11/10/2010 1316					ICP NA QSM		S	4	
		DLASS-030-0001-SO							35475			
82424	870207		11/9/2010 1600					ICP K QSM		S	4	
		DLASS-026-0001-SO							35475			
82424	870207		11/9/2010 1600					ICP NA QSM		S	4	
		DLASS-026-0001-SO							35475			
82458	871184		11/11/2010 0900			USACE - LOUISVILLE	RAVENNA ORE PILES	ICP K QSM		S	4	
		DLASS-032-0003-SO							35475			
82458	871184		11/11/2010 0900			USACE - LOUISVILLE	RAVENNA ORE PILES	ICP NA QSM		S	4	
		DLASS-032-0003-SO							35475			
82458	871186		11/11/2010 1230			USACE - LOUISVILLE	RAVENNA ORE PILES	ICP K QSM		S	4	
		DLASS-042-0003-SO							35475			
82458	871186		11/11/2010 1230			USACE - LOUISVILLE	RAVENNA ORE PILES	ICP NA QSM		S	4	
		DLASS-042-0003-SO							35475			

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MICP SOIL QSM Analytical Run
71911 on 12/6/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
82458	871187		11/11/2010 0931		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP K QSM		S	4	
		DLASS-035-0001-SO						35475			
82458	871187		11/11/2010 0931		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP NA QSM		S	4	
		DLASS-035-0001-SO						35475			
82458	871188		11/11/2010 1045		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP K QSM		S	4	
		DLASS-036-0001-SO						35475			
82458	871188		11/11/2010 1045		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP NA QSM		S	4	
		DLASS-036-0001-SO						35475			
82458	871189		11/11/2010 0945		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP K QSM		S	4	
		DLASS-031-0001-SO						35475			
82458	871189		11/11/2010 0945		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP NA QSM		S	4	
		DLASS-031-0001-SO						35475			
82458	871190		11/11/2010 1000		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP K QSM		S	4	
		DLASS-039-0001-SO						35475			
82458	871190		11/11/2010 1000		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP NA QSM		S	4	
		DLASS-039-0001-SO						35475			
82458	871191		11/11/2010 1310		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP K QSM		S	4	
		DLASS-037-0001-SO						35475			
82458	871191		11/11/2010 1310		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP NA QSM		S	4	
		DLASS-037-0001-SO						35475			
	874804						MICP SOIL QSM				
				CCV				0			
	874805						MICP SOIL QSM				
				CCB				0			
82458	871192		11/11/2010 1030		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP K QSM		S	4	
		DLASS-034-0001-SO						35475			
82458	871192		11/11/2010 1030		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP NA QSM		S	4	
		DLASS-034-0001-SO						35475			
82458	871193		11/11/2010 1043		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP K QSM		S	4	
		DLASS-038-0001-SO						35475			
82458	871193		11/11/2010 1043		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP NA QSM		S	4	
		DLASS-038-0001-SO						35475			
82458	871194		11/11/2010 1235		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP K QSM		S	4	
		DLASS-044-0001-SO						35475			
82458	871194		11/11/2010 1235		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP NA QSM		S	4	
		DLASS-044-0001-SO						35475			

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MICP SOIL QSM Analytical Run
71911 on 12/6/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
82458	871195		11/11/2010 1020		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP K QSM		S	**4**	
		DLASS-041-0001-SO						35475			
82458	871195		11/11/2010 1020		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP NA QSM		S	**4**	
		DLASS-041-0001-SO						35475			
82458	871196		11/11/2010 0920		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP K QSM		S	**4**	
		DLASS-040-0001-SO						35475			
82458	871196		11/11/2010 0920		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP NA QSM		S	**4**	
		DLASS-040-0001-SO						35475			
82458	871197		11/11/2010 1220		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP K QSM		S	**4**	
		DLASS-042-0001-SO						35475			
82458	871197		11/11/2010 1220		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP NA QSM		S	**4**	
		DLASS-042-0001-SO						35475			
82458	871198		11/11/2010 0900		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP K QSM		S	**4**	
		DLASS-032-0001-SO						35475			
82458	871198		11/11/2010 0900		USACE - LOUISVILLE	RAVENNA ORE PILES	ICP NA QSM		S	**4**	
		DLASS-032-0001-SO						35475			
	874806						MICP SOIL QSM				
				CCV				0			
	874807						MICP SOIL QSM				
				CCB				0			

65 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MERCURY QSM SOIL Analytical Run
72018 on 12/6/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)		CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	875791							MERCURY QSM SOIL				
				ICV					0			
	875792							MERCURY QSM SOIL				
				ICB					0			
	874583							MERCURY QSM				
				LCSS					35531			
	874582							MERCURY QSM				
				MBS					35531			
82424	870200		11/9/2010 0920					MERCURY QSM		S	4	
		DLASS-005-0001-SO							35531			
82424	870201		11/9/2010 1525					MERCURY QSM		S	4	
		DLASS-014-0001-SO		Designated MS/MSD					35531			
	875793							MERCURY QSM				
				L	870201				0			
	874584		11/9/2010 1525					MERCURY QSM				
		DLASS-014-0001-SO		DUP	870201				35531			
	874585		11/9/2010 1525					MERCURY QSM				
		DLASS-014-0001-SO		MSS	870201				35531			
	874586		11/9/2010 1525					MERCURY QSM				
		DLASS-014-0001-SO		MSDS	874585				35531			
	875794							MERCURY QSM				
				PDSS	870201				0			
	875795							MERCURY QSM SOIL				
				CCV					0			
	875796							MERCURY QSM SOIL				
				CCB					0			
82424	870202		11/9/2010 1500					MERCURY QSM		S	4	
		DLASS-011-0001-SO							35531			
82424	870203		11/9/2010 1535					MERCURY QSM		S	4	
		DLASS-014-0003-SO							35531			
82424	870204		11/10/2010 1316					MERCURY QSM		S	4	
		DLASS-030-0001-SO							35531			
82424	870207		11/9/2010 1600					MERCURY QSM		S	4	
		DLASS-026-0001-SO							35531			
82458	871184		11/11/2010 0900			USACE - LOUISVILLE	RAVENNA ORE PILES	MERCURY QSM		S	4	
		DLASS-032-0003-SO							35531			
82458	871186		11/11/2010 1230			USACE - LOUISVILLE	RAVENNA ORE PILES	MERCURY QSM		S	4	
		DLASS-042-0003-SO							35531			

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MERCURY QSM SOIL Analytical Run
72018 on 12/6/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
82458	871187		11/11/2010 0931		USACE - LOUISVILLE	RAVENNA ORE PILES	MERCURY QSM		S	**4**	
		DLASS-035-0001-SO						35531			
82458	871188		11/11/2010 1045		USACE - LOUISVILLE	RAVENNA ORE PILES	MERCURY QSM		S	**4**	
		DLASS-036-0001-SO						35531			
82458	871189		11/11/2010 0945		USACE - LOUISVILLE	RAVENNA ORE PILES	MERCURY QSM		S	**4**	
		DLASS-031-0001-SO						35531			
82458	871190		11/11/2010 1000		USACE - LOUISVILLE	RAVENNA ORE PILES	MERCURY QSM		S	**4**	
		DLASS-039-0001-SO						35531			
	875797						MERCURY QSM SOIL				
				CCV				0			
	875798						MERCURY QSM SOIL				
				CCB				0			
82458	871191		11/11/2010 1310		USACE - LOUISVILLE	RAVENNA ORE PILES	MERCURY QSM		S	**4**	
		DLASS-037-0001-SO						35531			
82458	871192		11/11/2010 1030		USACE - LOUISVILLE	RAVENNA ORE PILES	MERCURY QSM		S	**4**	
		DLASS-034-0001-SO						35531			
82458	871193		11/11/2010 1043		USACE - LOUISVILLE	RAVENNA ORE PILES	MERCURY QSM		S	**4**	
		DLASS-038-0001-SO						35531			
82458	871194		11/11/2010 1235		USACE - LOUISVILLE	RAVENNA ORE PILES	MERCURY QSM		S	**4**	
		DLASS-044-0001-SO						35531			
82458	871195		11/11/2010 1020		USACE - LOUISVILLE	RAVENNA ORE PILES	MERCURY QSM		S	**4**	
		DLASS-041-0001-SO						35531			
82458	871196		11/11/2010 0920		USACE - LOUISVILLE	RAVENNA ORE PILES	MERCURY QSM		S	**4**	
		DLASS-040-0001-SO						35531			
82458	871197		11/11/2010 1220		USACE - LOUISVILLE	RAVENNA ORE PILES	MERCURY QSM		S	**4**	
		DLASS-042-0001-SO						35531			
82458	871198		11/11/2010 0900		USACE - LOUISVILLE	RAVENNA ORE PILES	MERCURY QSM		S	**4**	
		DLASS-032-0001-SO						35531			
	875799						MERCURY QSM SOIL				
				CCV				0			
	875800						MERCURY QSM SOIL				
				CCB				0			

35 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

PREP WORKSHEET
on 12/6/2010

Prep Batch **35,475**

Prepped By:: AMA

Date Prepped: 11/18/2010

Date Entered:

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
	873322	MBS		ICP QSM	SOLID	50	2.0			
	873322	MBS		ICP K QSM	SOLID	50	2.0			
	873322	MBS		ICP NA QSM	SOLID	50	2.0			
	873322	MBS		ICP QSM	SOLID	50	2.0			
	873322	MBS		ICP QSM	SOLID	50	2.0			
	873323	LCSS		ICP QSM	SOLID	50	2.0			
	873323	LCSS		ICP K QSM	SOLID	50	2.0			
	873323	LCSS		ICP NA QSM	SOLID	50	2.0			
	873323	LCSS		ICP QSM	SOLID	50	2.0			
	873323	LCSS		ICP QSM	SOLID	50	2.0			
82424	870200			ICP QSM	SOIL	50	2.0		Y	
	870200			ICP QSM	SOIL	50	2.0		Y	
	870200			ICP QSM	SOIL	50	2.0		Y	
	870200			ICP K QSM	SOIL	50	2.0		N	
	870200			ICP NA QSM	SOIL	50	2.0		N	
	870200			ICP QSM	SOIL	50	2.0		Y	
	870201	*		ICP QSM	SOIL	50	2.0		Y	

PREP WORKSHEET
on 12/6/2010

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
82424	870201	*		ICP NA QSM	SOIL	50	2.0		N	
	870201	*		ICP K QSM	SOIL	50	2.0		N	
	870201	*		ICP QSM	SOIL	50	2.0		Y	
	870201	*		ICP QSM	SOIL	50	2.0		Y	
	870201	*		ICP QSM	SOIL	50	2.0		Y	
	870202			ICP QSM	SOIL	50	2.0		Y	
	870202			ICP QSM	SOIL	50	2.0		Y	
	870202			ICP K QSM	SOIL	50	2.0		N	
	870202			ICP QSM	SOIL	50	2.0		Y	
	870202			ICP NA QSM	SOIL	50	2.0		N	
	870202			ICP QSM	SOIL	50	2.0		Y	
	870203			ICP QSM	SOIL	50	2.0		Y	
	870203			ICP NA QSM	SOIL	50	2.0		N	
	870203			ICP QSM	SOIL	50	2.0		Y	
	870203			ICP K QSM	SOIL	50	2.0		N	
	870203			ICP QSM	SOIL	50	2.0		Y	
	870203			ICP QSM	SOIL	50	2.0		Y	
	870204			ICP QSM	SOIL	50	2.0		Y	
	870204			ICP QSM	SOIL	50	2.0		Y	

PREP WORKSHEET
on 12/6/2010

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
82424	870204			ICP QSM	SOIL	50	2.0		Y	
	870204			ICP K QSM	SOIL	50	2.0		N	
	870204			ICP QSM	SOIL	50	2.0		Y	
	870204			ICP QSM	SOIL	50	2.0		Y	
	870204			ICP NA QSM	SOIL	50	2.0		N	
	870207			ICP NA QSM	SOIL	50	2.0		N	
	870207			ICP QSM	SOIL	50	2.0		Y	
	870207			ICP QSM	SOIL	50	2.0		Y	
	870207			ICP K QSM	SOIL	50	2.0		N	
	870207			ICP QSM	SOIL	50	2.0		Y	
	870207			ICP QSM	SOIL	50	2.0		Y	
	870207			ICP QSM	SOIL	50	2.0		Y	
82458	871184			ICP QSM	SOIL	50	2.0		Y	
	871184			ICP QSM	SOIL	50	2.0		Y	
	871184			ICP QSM	SOIL	50	2.0		Y	
	871184			ICP K QSM	SOIL	50	2.0		N	
	871184			ICP NA QSM	SOIL	50	2.0		N	
	871184			ICP QSM	SOIL	50	2.0		Y	
	871184			ICP QSM	SOIL	50	2.0		Y	

PREP WORKSHEET
on 12/6/2010

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
82458	871184			ICP QSM	SOIL	50	2.0		Y	
	871186			ICP QSM	SOIL	50	2.0		Y	
	871186			ICP QSM	SOIL	50	2.0		Y	
	871186			ICP K QSM	SOIL	50	2.0		N	
	871186			ICP QSM	SOIL	50	2.0		Y	
	871186			ICP QSM	SOIL	50	2.0		Y	
	871186			ICP NA QSM	SOIL	50	2.0		N	
	871187			ICP NA QSM	SOIL	50	2.0		N	
	871187			ICP QSM	SOIL	50	2.0		Y	
	871187			ICP QSM	SOIL	50	2.0		Y	
	871187			ICP QSM	SOIL	50	2.0		Y	
	871187			ICP QSM	SOIL	50	2.0		Y	
	871187			ICP K QSM	SOIL	50	2.0		N	
	871187			ICP QSM	SOIL	50	2.0		Y	
	871188			ICP QSM	SOIL	50	2.0		Y	
	871188			ICP K QSM	SOIL	50	2.0		N	
	871188			ICP QSM	SOIL	50	2.0		Y	
	871188			ICP QSM	SOIL	50	2.0		Y	
	871188			ICP QSM	SOIL	50	2.0		Y	

PREP WORKSHEET
on 12/6/2010

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
82458	871188			ICP QSM	SOIL	50	2.0		Y	
	871188			ICP QSM	SOIL	50	2.0		Y	
	871188			ICP NA QSM	SOIL	50	2.0		N	
	871189			ICP NA QSM	SOIL	50	2.0		N	
	871189			ICP QSM	SOIL	50	2.0		Y	
	871189			ICP QSM	SOIL	50	2.0		Y	
	871189			ICP QSM	SOIL	50	2.0		Y	
	871189			ICP K QSM	SOIL	50	2.0		N	
	871189			ICP QSM	SOIL	50	2.0		Y	
	871190			ICP QSM	SOIL	50	2.0		Y	
	871190			ICP QSM	SOIL	50	2.0		Y	
	871190			ICP QSM	SOIL	50	2.0		Y	
	871190			ICP QSM	SOIL	50	2.0		Y	
	871190			ICP QSM	SOIL	50	2.0		Y	
	871190			ICP NA QSM	SOIL	50	2.0		N	
	871190			ICP K QSM	SOIL	50	2.0		N	
	871191			ICP K QSM	SOIL	50	2.0		N	
	871191			ICP NA QSM	SOIL	50	2.0		N	
	871191			ICP QSM	SOIL	50	2.0		Y	

PREP WORKSHEET
on 12/6/2010

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
82458	871191			ICP QSM	SOIL	50	2.0		Y	
	871191			ICP QSM	SOIL	50	2.0		Y	
	871191			ICP QSM	SOIL	50	2.0		Y	
	871191			ICP QSM	SOIL	50	2.0		Y	
	871192			ICP QSM	SOIL	50	2.0		Y	
	871192			ICP QSM	SOIL	50	2.0		Y	
	871192			ICP QSM	SOIL	50	2.0		Y	
	871192			ICP QSM	SOIL	50	2.0		Y	
	871192			ICP QSM	SOIL	50	2.0		Y	
	871192			ICP NA QSM	SOIL	50	2.0		N	
	871192			ICP K QSM	SOIL	50	2.0		N	
	871193			ICP K QSM	SOIL	50	2.0		N	
	871193			ICP QSM	SOIL	50	2.0		Y	
	871193			ICP NA QSM	SOIL	50	2.0		N	
	871193			ICP QSM	SOIL	50	2.0		Y	
	871193			ICP QSM	SOIL	50	2.0		Y	
	871193			ICP QSM	SOIL	50	2.0		Y	
	871193			ICP QSM	SOIL	50	2.0		Y	
	871193			ICP QSM	SOIL	50	2.0		Y	

PREP WORKSHEET
on 12/6/2010

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
82458	871193			ICP QSM	SOIL	50	2.0		Y	
	871194			ICP QSM	SOIL	50	2.0		Y	
	871194			ICP QSM	SOIL	50	2.0		Y	
	871194			ICP QSM	SOIL	50	2.0		Y	
	871194			ICP QSM	SOIL	50	2.0		Y	
	871194			ICP QSM	SOIL	50	2.0		Y	
	871194			ICP NA QSM	SOIL	50	2.0		N	
	871194			ICP QSM	SOIL	50	2.0		Y	
	871194			ICP QSM	SOIL	50	2.0		Y	
	871194			ICP K QSM	SOIL	50	2.0		N	
	871195			ICP K QSM	SOIL	50	2.0		N	
	871195			ICP QSM	SOIL	50	2.0		Y	
	871195			ICP NA QSM	SOIL	50	2.0		N	
	871195			ICP QSM	SOIL	50	2.0		Y	
	871195			ICP QSM	SOIL	50	2.0		Y	
	871195			ICP QSM	SOIL	50	2.0		Y	
	871195			ICP QSM	SOIL	50	2.0		Y	
	871195			ICP QSM	SOIL	50	2.0		Y	
	871196			ICP QSM	SOIL	50	2.0		Y	

PREP WORKSHEET
on 12/6/2010

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
82458	871196			ICP QSM	SOIL	50	2.0		Y	
	871196			ICP QSM	SOIL	50	2.0		Y	
	871196			ICP QSM	SOIL	50	2.0		Y	
	871196			ICP QSM	SOIL	50	2.0		Y	
	871196			ICP NA QSM	SOIL	50	2.0		N	
	871196			ICP QSM	SOIL	50	2.0		Y	
	871196			ICP K QSM	SOIL	50	2.0		N	
	871197			ICP K QSM	SOIL	50	2.0		N	
	871197			ICP QSM	SOIL	50	2.0		Y	
	871197			ICP QSM	SOIL	50	2.0		Y	
	871197			ICP NA QSM	SOIL	50	2.0		N	
	871197			ICP QSM	SOIL	50	2.0		Y	
	871197			ICP QSM	SOIL	50	2.0		Y	
	871197			ICP QSM	SOIL	50	2.0		Y	
	871197			ICP QSM	SOIL	50	2.0		Y	
	871198			ICP QSM	SOIL	50	2.0		Y	
	871198			ICP QSM	SOIL	50	2.0		Y	
	871198			ICP QSM	SOIL	50	2.0		Y	
	871198			ICP QSM	SOIL	50	2.0		Y	

PREP WORKSHEET
on 12/6/2010

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
82458	871198			ICP QSM	SOIL	50	2.0		Y	
	871198			ICP QSM	SOIL	50	2.0		Y	
	871198			ICP QSM	SOIL	50	2.0		Y	
	871198			ICP NA QSM	SOIL	50	2.0		N	
	871198			ICP QSM	SOIL	50	2.0		Y	
	871198			ICP K QSM	SOIL	50	2.0		N	
	873481	DUP	870201	ICP QSM	SOIL	50	2.0			
	873481	DUP	870201	ICP QSM	SOIL	50	2.0			
	873481	DUP	870201	ICP QSM	SOIL	50	2.0			
	873481	DUP	870201	ICP K QSM	SOIL	50	2.0			
	873481	DUP	870201	ICP NA QSM	SOIL	50	2.0			
	873481	DUP	870201	ICP QSM	SOIL	50	2.0			
	873483	MSS	870201	ICP K QSM	SOIL	50	2.0			
	873483	MSS	870201	ICP NA QSM	SOIL	50	2.0			
	873483	MSS	870201	ICP QSM	SOIL	50	2.0			
	873483	MSS	870201	ICP QSM	SOIL	50	2.0			
	873483	MSS	870201	ICP QSM	SOIL	50	2.0			
	873483	MSS	870201	ICP QSM	SOIL	50	2.0			
	873484	MSDS	873483	ICP QSM	SOIL	50	2.0			

PREP WORKSHEET
on 12/6/2010

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
	873484	MSDS	873483	ICP QSM	SOIL	50	2.0			
	873484	MSDS	873483	ICP QSM	SOIL	50	2.0			
	873484	MSDS	873483	ICP NA QSM	SOIL	50	2.0			
	873484	MSDS	873483	ICP QSM	SOIL	50	2.0			
	873484	MSDS	873483	ICP K QSM	SOIL	50	2.0			

Control Spike/Control Spike Dup Reference Number:_____ Methanol Supplier/Lot #:_____
Notes:_____

PREP WORKSHEET
on 12/6/2010

Prep Batch **35,531**

Prepped By:: AMA

Date Prepped: 11/23/2010

Date Entered:

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
	874582	MBS		MERCURY QSM	SOLID	25	0.60			
	874583	LCSS		MERCURY QSM	SOLID	25	0.60			
82424	870200			MERCURY QSM	SOIL	25	0.60		N	
	870201	*		MERCURY QSM	SOIL	25	0.60		N	
	870202			MERCURY QSM	SOIL	25	0.57		N	
	870203			MERCURY QSM	SOIL	25	0.57		N	
	870204			MERCURY QSM	SOIL	25	0.56		N	
	870207			MERCURY QSM	SOIL	25	0.57		N	
82458	871184			MERCURY QSM	SOIL	25	0.55		N	
	871186			MERCURY QSM	SOIL	25	0.55		N	
	871187			MERCURY QSM	SOIL	25	0.57		N	
	871188			MERCURY QSM	SOIL	25	0.58		N	
	871189			MERCURY QSM	SOIL	25	0.58		N	
	871190			MERCURY QSM	SOIL	25	0.55		N	
	871191			MERCURY QSM	SOIL	25	0.59		N	
	871192			MERCURY QSM	SOIL	25	0.56		N	
	871193			MERCURY QSM	SOIL	25	0.55		N	

PREP WORKSHEET
on 12/6/2010

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
82458	871194			MERCURY QSM	SOIL	25	0.55		N	
	871195			MERCURY QSM	SOIL	25	0.57		N	
	871196			MERCURY QSM	SOIL	25	0.59		N	
	871197			MERCURY QSM	SOIL	25	0.57		N	
	871198			MERCURY QSM	SOIL	25	0.57		N	
	874584	DUP	870201	MERCURY QSM	SOIL	25	0.59			
	874585	MSS	870201	MERCURY QSM	SOIL	25	0.58			
	874586	MSDS	874585	MERCURY QSM	SOIL	25	0.59			

Control Spike/Control Spike Dup Reference Number:_____ Methanol Supplier/Lot #:_____
Notes:_____

Analyst: AmA

Metals Digestion Summary - CT Laboratories Baraboo, WI

Date: 11/18/10 Time: 1730

Prep Batch#	Sample ID#	Matrix*	Prep Method**	Sample Amt (g or ml)	Final Vol. (ml)	Blk	Dup	MS	MSD	Spike/LCS /LFB info	Acid ID#
35475	LCSS	QC	3050	2.0g	50mL	X				0.5mL M9863 1mL M9784, 0.5mL M9753	AB: 515507, 514
	870200	SO		2.0g							
	870201			2.0g			X	X	X	0.5mL M9863, 1mL M9659, M9374 1mL M9784, 0.5mL M9753	
	870202			2.0g							
	870203			2.0g							
	870204			2.0g							
	870207			2.0g							
	871184			2.0g							
	871186			2.0g							
	871187			2.0g							
	871188			2.0g							
	871189			2.0g							
	871190			2.0g							
	871191			2.0g							
	871192			2.0g							
	871193			2.0g							
	871194			2.0g							
	871195			2.0g							
	871196			2.0g							
	871197			2.0g							
	871198			2.0g							

Method Temperature Verification

*SO,SL,WW,GW,TCLP,SPLP,ASTM, other
**3005,3010,3020,3050,3060

Review Date/Initials:

Block Used:	A	Initial Block Temp (C):	92C	Digestion Tube Lot #:	1007292
Cell #		Final Block Temp (C):	91C	Comments:	

Prep Batch #: 35531

Mercury Sample Digestion Bench Sheet

Date: 11/23/10

Method: 7470 / 7471

Analyst: AmA

Sample #	Matrix	Sample Volume (ml)	Sample Weight (g)	Amt. DI H2O Added (ml)	Excess KMnO4 added (ml)	Amt. Aqua-Regia added (ml)	Spike (A or B)
0.5	QC	25mL	—	—	—	1.25mL	
1.0							
2.0							
4.0							
5.0							
10.0							
3.0 ICV							
3.0 CCV							
0.2 MRL							
Cal Check			↓	↓			
LCSS=2.0, 35531			0.60g	25mL			A
MBS, 35531	↓		0.60g				
870200	50		0.60g				
870201, Dup, MS, MSD			0.60, 0.59, 0.58, 0.59g				A
870202			0.57g				
870203			0.57g				
870204			0.56g				
870207			0.57g				
871184			0.55g				
871186			0.55g				
871187			0.57g				
871188			0.58g				
871189			0.58g				
871190			0.55g				
871191			0.59g				
871192			0.56g				
871193			0.55g				
871194			0.55g				
871195			0.57g				
871196			0.59g				
871197			0.57g				
871198	↓	↓	0.57g		11/23/10 AmA		

Prepped @ 1530 AmA

Sand Lot # M23481

Notes:

Std./Reagent	Prep ID #
KMnO4	M9906
K2S2O8	M9893
NaCl/Hydrox. SO4	M9941
SnCl2	M9947
HNO3	AB·515
H2SO4	AB·510
Calibration Stds.	M9935
Aqua-Regia	M9940
Water Bath Temperature (Start)	92°C
Water Bath Temperature (Finish)	92°C

A: Spike Volume (ml): 0.5mL
Spike Concentration: 100µg/L
Sample Volume (ml): 25mL
Spike Prep. ID #: M9936

B: Spike Volume (ml): _____
Spike Concentration: _____
Sample Volume (ml): _____
Spike Prep. ID #: _____

Reviewed By (Initials-Date): _____

iCAP 6000 / 6500 Data Review Checklist	Analysis Date: 11-19-10		Data File: DODResults	Date of review: 12-09-10	
Cal Std ID: 110817 LIMS #: 24910	Analyst:		Reviewer: BAE	Approved? Yes No	
QC Parameters : 6010 / 200.7 / QSM / Other	**YES**	**NO**	**YES**	**NO**	**Comments:**
1) Calibration linearity: r ≥ 0.995 / r > 0.998	✓		✓		
2) ICV: 90-110% / 95-105%	✓		✓		
3) ICB: < 3X IDL / <LOD / <LOQ	✓		✓		
4) ICSA: < ABS LOD	✓		✓		Ca "B"
5) ICSAB: 80-120%	✓		✓		
6) MRL: 70-130% / 80-120%	✓		✓		
7) MDL Check: >LOD					
8) CCV1/CCB1 (CCV: 90-110%)	✓		✓	✓	
9) CCV2/CCB2 (CCB: < 3X IDL / <LOD / <LOQ)	✓		✓	✓	
10) CCV3/CCB3	✓		✓	✓	
11) CCV4/CCB4	✓		✓	✓	
12) CCV5/CCB5					
13) CCV6/CCB6					
Preparation Batch Parameters	**YES**	**NO**	**YES**	**NO**	
Prep Batch ID#: 35475 Dig. Meth. 3050	✓		✓		
LCS - generated limits or project specific limits	✓		✓		
MB - <LOD or ≤ ½ RL	✓	✓	✓	✓	Al, Fe, Mn, V >100 Samples >10 Reported N.A
Spiked samples in batch:					
a) 870201 matrix = SO	✓	✓	✓	✓	Ba, Be, Cd, Ca, Fe, Se, Zn, Tl
b) matrix =					V- Ag, Sb, Tl, Fe, Se, Zn, Tl
c) matrix =					
PDS: ±15% / 20% / 25% Sample#: 870201	✓		✓		MSS, Fe, Pb, Mn, Se, Ag, Sb, Tl, Zn, Cr
Prep Batch ID#: Dig. Meth.					MSDS Mn, Ag, Sb, Ag
LCS - generated limits or project specific limits					
MB - <LOD or ≤ ½ RL					
Spiked samples in batch:					PDS Ag, Fe "M"
a) matrix =					
b) matrix =					
c) matrix =					
PDS: ±15% / 20% / 25% Sample#:					
Prep Batch ID#: Dig. Meth.					
LCS - generated limits or project specific limits					
MB - <LOD or ≤ ½ RL					
Spiked samples in batch:					
a) matrix =					
b) matrix =					
c) matrix =					
PDS: ±15% / 20% / 25% Sample#:					
Prep Batch ID#: Dig. Meth.					
LCS - generated limits or project specific limits					
MB - <LOD or ≤ ½ RL					
Spiked samples in batch:					
a) matrix =					
b) matrix =					
c) matrix =					
PDS: ±15% / 20% / 25% Sample#:					
Prep Batch ID#: Dig. Meth.					
LCS - generated limits or project specific limits					
MB - <LOD or ≤ ½ RL					
Spiked samples in batch:					
a) matrix =					
b) matrix =					
c) matrix =					
PDS: ±15% / 20% / 25% Sample#:					

iCAP 6000 / 6500 Data Review Checklist	Analysis Date: 11-22-10		Data File: Nak Results		Date of review: 11/24/10
Cal Std ID: M9904 LIMS # : 47911	Analyst:		Reviewer:		Approved? Yes No
QC Parameters: 6010 / 200.7 / QSM / Other	**YES**	**NO**	**YES**	**NO**	**Comments:**
1) Calibration linearity: <> 0.995 / > 0.998	✓		✓		
2) ICV: 90-110% / 95-105%	✓		✓		
3) ICB: < 3X IDL / <LOD / <LOQ	✓		✓		
4) ICSA: < ABS LOD	✓		✓		
5) ICSAB: 80-120%	✓		✓		
6) MRL: 70-130% / 80-120%	✓		✓		
7) MDL Check: >LOD					
8) CCV1/CCB1 (CCV: 90-110%)	✓		✓		
9) CCV2/CCB2 (CCB: < 3X IDL / <LOD / <LOQ)	✓		✓		
10) CCV3/CCB3	✓		✓		
11) CCV4/CCB4	✓		✓		
12) CCV5/CCB5					
13) CCV6/CCB6					
Preparation Batch Parameters	**YES**	**NO**	**YES**	**NO**	
Prep Batch ID#: 35475 Dig. Meth. 3050	✓		✓		
LCS - generated limits or project specific limits	✓		✓		
MB - <LOD or ≤ ½ RL	✓		✓		
Spiked samples in batch:					
a) 57201 matrix = SO	✓		✓		
b) matrix =					
c) matrix =					
PDS: ±15% / 20% / 25% Sample#:					
Prep Batch ID#: Dig. Meth.					
LCS - generated limits or project specific limits					
MB - <LOD or ≤ ½ RL					
Spiked samples in batch:					
a) matrix =					
b) matrix =					
c) matrix =					
PDS: ±15% / 20% / 25% Sample#:					
Prep Batch ID#: Dig. Meth.					
LCS - generated limits or project specific limits					
MB - <LOD or ≤ ½ RL					
Spiked samples in batch:					
a) matrix =					
b) matrix =					
c) matrix =					
PDS: ±15% / 20% / 25% Sample#:					
Prep Batch ID#: Dig. Meth.					
LCS - generated limits or project specific limits					
MB - <LOD or ≤ ½ RL					
Spiked samples in batch:					
a) matrix =					
b) matrix =					
c) matrix =					
PDS: ±15% / 20% / 25% Sample#:					

GFAA / FLAA / CVAA Data Review checklist		Method: 200.9	7000 series AA	245.1	7470a / 7471a
Instrumentation:	THERMO M SERIES AA		CETAC Hg ANALYZER		
Analysis Date: 11-24-10 (11-30-10 Cal)	Data File: 10112400	Date Review: 11-30-10	Analyte: Hg		
Cal Std ID: M0915	LIMS #: 72018	Analyst: GE	Reviewer:	Approved? Yes	No

Calibration Parameters -	YES	NO	YES	NO	Comments:
1) Calibration linearity - r > 0.995	✓		—		
2) ICV: 90-110% 95-105%	✓		—		
3) ICB: <IDL / <LOD / <LOQ / <½ RL	✓		—		
6) MRL: 70-130%					
7) CCV1/CCB1- (CCV: 90-110% / 80-120%)	✓		—		
8) CCV2/CCB2 (CCB: <IDL / <LOD / <LOQ / <½ RL)	✓		—		
9) CCV3/CCB3	✓		—		
10) CCV4/CCB4					
11) CCV5/CCB5					
12) CCV6/CCB6					

Preparation Batch Parameters	YES	NO	YES	NO	Comments:
Prep Batch ID#: 26531 Dig. Meth. 7471a	✓		—		
LCS - generated limits or project specific limits	✓		—		
MB - <LOD / <2.2X LOD / ≤ ½RL	✓		—		
Spiked samples in batch:					
a) 870201 matrix = SO		✓	—		LCS failed, MS failed, PDS failed - 'M' flagged sample
b) matrix =					
c) matrix =					
d) matrix =					
e) matrix =					
PDS: ±15% / 20% / 25% Sample# 870201		✓	✓		
MSA Performed? Yes No					
Prep Batch ID#: Dig. Meth.					
LCS - generated limits or project specific limits					
MB - <LOD / <2.2X LOD / ≤ ½RL					
Spiked samples in batch:					
a) matrix =					
b) matrix =					
c) matrix =					
d) matrix =					
e) matrix =					
PDS: ±15% / 20% / 25% Sample#					
MSA Performed? Yes No					
Prep Batch ID#: Dig. Meth.					
LCS - generated limits or project specific limits					
MB - <LOD / <2.2X LOD / ≤ ½RL					
Spiked samples in batch:					
a) matrix =					
b) matrix =					
c) matrix =					
d) matrix =					
e) matrix =					
PDS: ±15% / 20% / 25% Sample#					
MSA Performed? Yes No					

CT Laboratories Instrument Run Log

Instrument ID: ICP 6000

Date	Time Start/End	Analyst	Method	LIMS# or Sample #	Sequence I.D.	Nebulizer Pressure	Cal Std ID	~~Wavelength Check~~ (to be run)	Comments
11-6-10	1039 / 1011		DOD Results	71407,68 71541 71554 71552 71566,70324,2071550 71544	D110610	350	M9817	190047	V1226
11-7-10	1032/0249		DOD Results	71548,71557 71547 71487 71457	D110710	350	M9817	190047	V1229, V1230, V1231
11-8-10	1448/2446		DOD Results	71597 71546	D110710	250	M9817	190047	V1233
11-9-10	1347/0704		DOD Results	71547, 71544, 71554 71548 71556 71553, 71546	D110910A	250	M9817	189241	V1243, V1244
11-10-10	1247/0034		DOD results	71557, 70923 71541	D111010	250	M9817	189241	~~V1245~~ V1247
11-11-10	1041/13516		DOD Cal Results	71677, 71554	D111110	390	M9817	189241	V1255, 1256
11-12-10	0857/2155		DOD cal	71677, 71713	D111210	340	M9817	189241	V1249, 1250, 1254
11-13-10	1138/2400		DOD cal	71546 71713 71737	D111310	340	M9817	189241	V1260, 1263
11-15-10	1336 1807		DOD Cal	71726 71713	D111510	300	M9817	189241	V1269
11-16-10	1428/2049		DOD Cal	70922 71763 71766 71745 70930	D111610	300	M9817	189241	V1270 V1272, V1273
11-18-10	1312/1745		DOD Cal	71763, 71745, 71554 71717 71713	D111810	300	M9817	189241	V1274/5 V1277 AS ✓ 11-19-10
11-19-10	0901/0359		DOD Cal	71824 71518 71826 71820 71907	D111910	300	M9817	189241	V1276, V1278
11-22-10	0951/1532		DOD Cal	71913 71910 71913 71911 71953, 71941, 71942	D112210	260	M9817	189241	V1279
11-23-10	1340 /1706		DOD Cal	71890 71968 71907	D112310	210	M9817	189241	V1280, V1281
11-29-10	1338 /0255		DOD cal	72013 71942 71913 71883 72011 72040 71968	D112910	210	M9817	189241	V1282
11-30-10	1413/0204		DOD Cal	72105 71991 72088 72106 72095 72087	D113010	220	M9817	189241	M1284
12-1-10	1341/2207		DOD Cal	71968 71907 72130 72124 72129 72203	D120110	210	M9817	189241	M1284
12-3-10	1234/0824		DOD cal	71910, 72208, 72205	D120310	210	M9817	189241	M1290
12-07-10			DOD Cal	72241 72242 72254 72257 72155 72244	D120910	210	M9817	189241	M1294, M1295

CT Laboratories Instrument Run Log

Instrument ID: ICP 6500

Date	Time Start/End	Analyst	Analytes	LIMS run or Samples Analyzed	Sequence ID	Cal Std ID	Neb Pressure	Comments
10-5-10	1044/1306		Na, K	70678, 70643	N100510	M9285	300	V98
10-5-10	1309/1458		Sn	70577 70437 35, 08, 10	N100510	M9632	300	V78
10-11-10	1425/2221		Na, K	70810 70803, 70838 70484 70730 70811 70735 70849	N101110	M9285	320	V99
10-12-10	1053/1214		Na K	70849 70735 70730	N101110	M9285	320	V100
10-12-10	1217/1523		Si	70850, 70733	N101110	M9867	320	V104
10-13-10	0733/0916		Si	70850	N101110	M9867	320	V105
10-15-10	1042/1528		Na, K	71003, 70954, 70919, 70923	N101510	M9285	370	V101
10-18-10	1432/1652		K, Na	70849, 70735, 71023	N101810	M9285	370	V102 V80
10-21-10	0820/1636		K, Na, Li	71121, 71119, 71159, 71157	N102110	M9633 M9285	370	V103, V79, V104
10-22-10	0711/0902		Na, K	71121, 71119	N102110	M9285	370	V105
10-28-10	1745/2003		Na, K	71196, 71209	N102810	M9285	320	V105
10-29-10	1059/1515		Na, K	71196, 71209	N102810	M9285	320	V106, 107
11/1/10	1433/1622		Li, Sn, Sr, Ti	71405	Li110110	M9632	320	V81
11/2/10	1323/1448		Li, Sn	71211	Li110210	M9632	320	V82
11-2-10	1453/1630		Bo, Si	71406	B110210	M9867	320	~~V106~~ V106
11-9-10	1445/2311		Na K	71542 71551 71559 71579 71553 71545 71539 71549 71469	N110910	M9904	310	V109 11-2-10
11-10-10	1438/0428		Li, Sn, Sr, Ti	71540 71464 71770, 71768 7141, 71194	Li111010	M9633	310	V83
11-11-10	0433/0720		Bor & Si Nak	71478, 71560, 71543	B111010	M9867	310	V107 V110, 110
11-11-10	1031/1330		Nak, B	71555	N111110	M9904	310	V110 V108
11-16-10	1346/0337		Nak, Sn	71767 71715 71663 71668 71663 71746 71470 71463 71651 71764	N111610	M9904 M9632	310	V112, V88
11-18-10	1431/1821		Nak	71819 71821, 71823, 71821	N111710	M9904	310	V113
11-18-10	1431/1821		Nak	71891 71819 71823 71821	N111810	M9904	310	V113
11-19-10	1334/1457		Boron	71765, 71714	B111910	M9867	310	V112
11-22-10	0805/1023		Nak	71667, 71908, 71914, 71911	N111910	M9904	310	V114
11-22-10	1026/1245		Li, Sn	71943, 71663	N111910	M9632	310	V89
11-29-10	1433/1817		Nak, Li	71943, 71908, 72012, 72014	N112910	M9632 M9904	310	V115, V90
12-3-10	1354/1855		Na, K	72207 72128 72127 72104 72202,	N120310	M9904	310	V116

MERCURY ANALYZER INSTRUMENT RUN LOG

date analyzed	time start/end	analyst	Samples analyzed	worksheet(method) File Id	Cal Std Id	Comments
10/27/10	0911/0952	GLE	71300	10102700	M9885	LC: 10.2 Tube Lot No. 186786
10/27/10	1011/1209	GLE	71301, 71302, 71303	10102702	M9885	LC: 10.2 Tube Lot No. 186786
11/03/10	0835/1242	GLE	71470, 71471, 71472, 71473, 71474, 71475	10110300	M9896	LC: 10.2 Tube Lot No. 190047
11/03/10	1250/1456	GLE	71498, 71499, 71500	10110301	M9896	LC: 10.2 Tube Lot No. 190047
11/10/10	0833/0916	GLE	71645	10111000	M9907	LC: 10.2 Tube Lot No. 190047
11/10/10	0924/1108	GLE	71646, 71648	10111001	M9907	LC: 10.4 Tube Lot No. 190047
11/17/10	0912/1053	GLE	71832, 71833	10111700	M9916	LC: 10.2 Tube Lot No. 190047
11/17/10	1102/1244	GLE	71831, 71830 71837	10111701	M9916	LC: 10.2 Tube Lot No. 190047
11/24/10	0817/1401	GLE	72018, 72019, 72020, 72021	10112400, 01, 02	M9935	LC: 10.4 Tube Lot No. 190047
11/24/10	1417/1551	GLE	72024, 72023, 72022	10112403	M9935	LC: 10.4 Tube Lot No. 190047
11/30/10	0847/1058	GLE	72082, 72083	10113000	M9945	LC: 10.4 Tube Lot No. 190047
12/08/10	0855/1151	GLE	72325, 72330, 1043, 72331, 72332	10120800	M9962	LC: 10.4 Tube Lot No. 190047
12/08/10	1258/1640	GLE	72326, 72327, 72328, 72329, 72333	10120802	M9962	LC: 10.4 Tube Lot No. 190047

Type	Date/Time	Message	User name	Application	Sequence Name
	11/18/2010 23:48:10	Running mbw35451 (69)	NAH	Analyst	S_DOD Calibration 1
	11/18/2010 23:53:40	Running 872315 (70)	NAH	Analyst	S_DOD Calibration 1
	11/18/2010 23:59:10	Running ccv1 (24)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 00:04:39	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 00:10:08	Running cal blk (25)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 00:15:37	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 00:21:07	Running l872315 (71)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 00:26:38	Running dup872315 (72)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 00:32:08	Running msw872315 (73)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 00:37:39	Running msdw872315 (74)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 00:43:10	Running pdsw872315 (75)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 00:48:41	Running lcsw35452 (76)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 00:54:12	Running mbw35452 (77)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 00:59:42	Running 870564 (78)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 01:05:13	Running 870564 (79)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 01:10:44	Running mss870564 (80)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 01:16:14	Running ccv1 (24)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 01:21:43	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 01:27:13	Running cal blk (25)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 01:32:43	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 01:38:13	Running msds870564 (81)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 01:43:44	Running 872113 (82)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 01:49:15	Running 872447 (83)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 01:54:45	Running MRL (23)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 02:00:13	Running ccv1 (24)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 02:05:43	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 02:11:11	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 02:16:39	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 02:22:06	Plasma extinguished successfully	NAH	Analyst	
	11/19/2010 02:22:07	Plasma off	NAH	iTEVA Control Center	
	11/19/2010 02:22:08	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 06:52:04	Plasma On	NAH	iTEVA Control Center	
	11/19/2010 06:52:07	Plasma ignition successful	NAH	Analyst	
	11/19/2010 06:52:55	D33534 - Debug:Wavelength check : x = 1.710, y =1.677	NAH	Analyst	
	11/19/2010 07:10:26	Plasma extinguished successfully	NAH	Analyst	
	11/19/2010 07:10:26	Plasma off	NAH	iTEVA Control Center	
	11/19/2010 07:13:28	Plasma On	NAH	iTEVA Control Center	
	11/19/2010 07:13:32	Plasma ignition successful	NAH	Analyst	
	11/19/2010 07:14:18	D33534 - Debug:Wavelength check : x = 1.710, y =1.544	NAH	Analyst	
	11/19/2010 09:00:36	Autosampler Run Started	NAH	Analyst	
	11/19/2010 09:00:36	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 09:01:20	D33534 - Debug:Wavelength check : x = 1.710, y =1.498	NAH	Analyst	
	11/19/2010 09:01:43	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 09:07:09	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 09:12:38	Running CalibStd=0.5 (3)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 09:18:06	Running CalibStd=1 (4)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 09:23:35	Running CalibStd=5 (5)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 09:29:05	Running CalibStd=10 (6)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 09:34:34	Running CalibStd=20 (7)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 09:40:03	Running CalibStd=50 (8)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 09:45:28	Running CalibStd=100 (9)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	11/19/2010 09:50:51	Running CalibStd=1000 (10)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 09:55:54	Running CalibStd=10000 (11)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 10:01:42	Running CalibStd-100k (12)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 10:07:33	Running CalibStd=100000 (13)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 10:13:20	Running CalibStd=500000 (14)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 10:19:21	Running CalibStd-1000k (15)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 10:25:34	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 10:31:00	Running icv (16)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 10:36:35	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 10:42:03	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 10:47:33	Running MRL (23)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 10:52:57	Running icsa (20)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 10:59:00	Running icsab (21)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 11:04:47	Running 869560 (41)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 11:10:33	Running 869561 (42)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 11:16:22	Running 869562 (43)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 11:22:13	Running 871026 (44)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 11:28:05	Running l871026 (45)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 11:33:30	Running dup871026 (46)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 11:39:20	Running mss871026 (47)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 11:44:59	Running msds871026 (48)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 11:50:38	Running pdss871026 (49)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 11:56:14	Running 871039 (50)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 12:01:42	Running ccv1 (24)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 12:07:00	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 12:12:12	Running cal blk (25)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 12:17:41	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 12:23:11	Running 871046 (51)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 12:29:01	Running 871047 (52)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 12:34:46	Running 871050 (53)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 12:40:42	Running 871052 (54)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 12:46:32	Running 871053 (55)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 12:52:29	Running 871054 (56)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 12:58:26	Running 871055 (57)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 13:04:14	Running 871056 (58)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 13:10:11	Running lcsw35450 (59)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 13:15:54	Running mbw35450 (60)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 13:21:32	Running ccv1 (24)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 13:26:48	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 13:31:49	The standard CalibStd=20 will be permanently removed from the stand	NAH	Analyst	
	11/19/2010 13:32:01	Running cal blk (25)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 13:36:48	The standard CalibStd=5 will be permanently removed from the standar	NAH	Analyst	
	11/19/2010 13:37:31	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 13:39:49	The standard CalibStd=10 will be permanently removed from the stand	NAH	Analyst	
	11/19/2010 13:43:59	Running 870994 (61)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 13:49:38	Running 871058 (62)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 13:55:26	Running l871058 (63)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 14:00:57	Running dup871058 (64)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 14:03:36	Closing will close the method and all associated samples.	NAH	Analyst	
	11/19/2010 14:06:27	Running msw871058 (65)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 14:12:09	Running msdw871058 (66)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	11/19/2010 14:17:52	Running pdsw871058 (67)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 14:23:37	Running lcsw35451 (68)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 14:29:20	Running mbw35451 (69)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 14:34:50	Running 872315 (70)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 14:40:20	Running ccv1 (24)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 14:45:39	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 14:50:50	Running cal blk (25)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 14:53:22	Closing will close the method and all associated samples.	NAH	Analyst	
	11/19/2010 14:54:40	Closing will close the method and all associated samples.	NAH	Analyst	
	11/19/2010 14:56:21	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 15:01:48	Running l872315 (71)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 15:07:19	Running dup872315 (72)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 15:12:50	Running msw872315 (73)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 15:18:33	Running msdw872315 (74)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 15:24:17	Running pdsw872315 (75)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 15:30:01	Running lcsw35452 (76)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 15:35:44	Running mbw35452 (77)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 15:41:14	Running 870564 (78)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 15:47:15	Running mss870564 (79)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 15:52:58	Running msds870564 (80)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 15:58:38	Running ccv1 (24)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 16:03:55	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 16:09:06	Running cal blk (25)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 16:14:37	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 16:20:04	Running 872113 (81)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 16:25:55	Running 872447 (82)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 16:31:44	Running lcss35485 (1)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 16:36:51	Running mbs35485 (2)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 16:42:19	Running 872594 (3)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 16:47:55	Running l872594 (4)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 16:53:42	Running dup872594 (5)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 16:59:17	Running mss872594 (6)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 17:04:46	Running msds872594 (7)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 17:10:16	Running pdss872594 (8)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 17:15:47	Running ccv1 (24)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 17:21:03	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 17:26:14	Running cal blk (25)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 17:31:44	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 17:37:10	Running 872596 (9)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 17:42:59	Running 872597 (10)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 17:48:42	Running 872598 (11)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 17:54:24	Running 872599 (12)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 18:00:11	Running 872600 (13)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 18:05:45	Running 872601 (14)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 18:11:23	Running 872602 (15)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 18:16:57	Running 872603 (16)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 18:22:36	Running 872604 (17)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 18:28:14	Running 872610 (18)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 18:33:53	Running ccv1 (24)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 18:39:10	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 18:44:21	Running cal blk (25)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	11/19/2010 18:49:51	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 18:55:17	Running 872611 (19)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 19:01:07	Running 872612 (20)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 19:06:45	Running 872613 (21)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 19:12:23	Running 872614 (22)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 19:18:12	Running 872615 (23)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 19:23:48	Running 872616 (24)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 19:29:26	Running 872617 (25)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 19:34:58	Running 872618 (26)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 19:40:40	Running 872619 (27)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 19:46:20	Running lcss35475 (28)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 19:52:03	Running ccv1 (24)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 19:57:18	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 20:02:29	Running cal blk (25)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 20:07:58	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 20:13:25	Running mbs35475 (29)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 20:18:54	Running 870200 (30)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 20:24:38	Running 870201 (31)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 20:30:25	Running l870201 (32)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 20:36:07	Running dup870201 (33)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 20:41:54	Running mss870201 (34)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 20:47:31	Running msds870201 (35)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 20:53:18	Running pdss870201 (36)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 20:59:06	Running 870202 (37)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 21:04:44	Running 870203 (38)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 21:10:33	Running ccv1 (24)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 21:15:50	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 21:21:01	Running cal blk (25)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 21:26:30	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 21:31:58	Running 870204 (39)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 21:37:39	Running 870207 (40)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 21:43:19	Running 871184 (83)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 21:49:09	Running 871186 (84)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 21:54:54	Running 871187 (85)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 22:00:45	Running 871188 (86)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 22:07:09	Running 871189 (87)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 22:13:02	Running 871190 (88)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 22:18:51	Running 871191 (89)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 22:25:01	Running 871192 (90)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 22:30:52	Running ccv1 (24)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 22:36:08	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 22:41:19	Running cal blk (25)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 22:46:49	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 22:52:16	Running 871193 (91)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 22:58:07	Running 871194 (92)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 23:03:51	Running 871195 (93)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 23:09:27	Running 871196 (94)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 23:15:11	Running 871197 (95)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 23:20:56	Running 871198 (96)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 23:26:53	Running lcss35484 (97)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 23:32:37	Running mbs35484 (98)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	11/19/2010 23:38:08	Running 872313 (99)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 23:43:55	Running l872313 (100)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 23:49:46	Running ccv1 (29)	NAH	Analyst	S_DOD Calibration 1
	11/19/2010 23:55:03	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 00:00:16	Running cal blk (28)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 00:05:48	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 00:11:20	Running dup872313 (101)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 00:17:04	Running mss872313 (102)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 00:22:44	Running msds872313 (103)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 00:28:23	Running pdss872313 (104)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 00:33:57	Running 872314 (105)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 00:39:46	Running lcss35471 (106)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 00:44:52	Running mbs35471 (107)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 00:50:23	Running 869616 (108)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 00:56:12	Running mss869616 (109)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 01:01:46	Running msds869616 (110)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 01:07:28	Running ccv1 (29)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 01:12:46	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 01:17:59	Running cal blk (28)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 01:23:30	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 01:29:01	Running 871051 (111)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 01:34:50	Running 871242 (112)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 01:40:33	Running mss871242 (113)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 01:46:07	Running msds871242 (114)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 01:51:37	Running 871269 (115)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 01:57:24	Running 871270 (116)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 02:03:14	Running 871271 (117)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 02:09:04	Running 872831 (118)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 02:14:53	Running lcsw35479 (119)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 02:20:37	Running mbw35479 (120)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 02:26:08	Running ccv1 (29)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 02:31:21	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 02:36:34	Running cal blk (28)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 02:42:04	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 02:47:37	Running 873014 (121)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 02:53:37	Running msw873014 (122)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 02:59:16	Running msdw873014 (123)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 03:04:55	Running lcsw35480 (124)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 03:10:04	Running mbw35480 (125)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 03:15:36	Running 872553 (126)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 03:21:21	Running msw872553 (127)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 03:26:45	Running msdw872553 (128)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 03:32:10	Running 871039 (129)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 03:37:59	Running MRL (23)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 03:43:25	Running ccv1 (29)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 03:48:42	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 03:53:53	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 03:59:20	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1
	11/20/2010 04:04:48	Plasma off	NAH	iTEVA Control Center	
	11/20/2010 04:04:49	Plasma extinguished successfully	NAH	Analyst	
	11/20/2010 04:04:51	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	11/22/2010 08:39:32	Plasma On	NAH	iTEVA Control Center	
	11/22/2010 08:39:36	Plasma ignition successful	NAH	Analyst	
	11/22/2010 08:40:23	D33534 - Debug:Wavelength check : x = 1.795, y =1.627	NAH	Analyst	
	11/22/2010 09:36:06	iTEVA loaded	NAH	iTEVA Control Center	
	11/22/2010 09:36:24	Connected to instrument 20070314	NAH	iTEVA Control Center	
	11/22/2010 09:37:01	Plasma On	NAH	iTEVA Control Center	
	11/22/2010 09:50:08	Autosampler Run Started	NAH	Analyst	
	11/22/2010 09:50:08	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 09:50:52	D33534 - Debug:Wavelength check : x = 1.710, y =1.551	NAH	Analyst	
	11/22/2010 09:51:14	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 09:56:55	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 10:02:35	Running CalibStd=0.5 (3)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 10:08:04	Running CalibStd=1 (4)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 10:13:34	Running CalibStd=5 (5)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 10:19:04	Running CalibStd=10 (6)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 10:24:34	Running CalibStd=20 (7)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 10:30:03	Running CalibStd=50 (8)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 10:35:48	Running CalibStd=100 (9)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 10:41:15	Running CalibStd=1000 (10)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 10:46:33	Running CalibStd=10000 (11)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 10:52:18	Running CalibStd-100k (12)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 10:58:11	Running CalibStd=100000 (13)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 11:03:58	Running CalibStd=500000 (14)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 11:09:59	Running CalibStd-1000k (15)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 11:16:17	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 11:21:43	Running icv (16)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 11:27:27	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 11:32:57	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 11:38:27	Running MRL (23)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 11:43:52	Running icsa (20)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 11:49:54	Running icsab (21)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 11:55:38	Running lcsw35514 (1)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 12:01:20	Running mbw35514 (2)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 12:06:48	Running 873345 (3)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 12:12:26	Running l873345 (4)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 12:18:08	Running dup873345 (5)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 12:23:45	Running msw873345 (6)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 12:29:23	Running msdw873348 (7)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 12:35:02	Running pdsw873345 (8)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 12:40:40	Running lcsw35497 (9)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 12:45:53	Running mbw35497 (10)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 12:51:22	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 12:56:52	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 13:02:03	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 13:07:19	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 13:12:51	Running tclp vessel blank1 (11)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 13:18:21	Running 869439 (12)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 13:23:56	Running msw869439 (13)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 13:29:23	Running 873750 (14)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 13:35:20	Running msw873750 (15)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 13:41:03	Running msdw873750 (16)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	11/22/2010 13:46:43	Running 873757 (17)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 13:52:34	Running 873758 (18)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 13:58:20	Running 873759 (19)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 14:04:12	Running 873760 (20)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 14:09:55	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 14:15:12	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 14:20:23	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 14:25:52	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 14:31:23	Running 873761 (21)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 14:37:10	Running 873762 (22)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 14:43:00	Running 873763 (23)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 14:48:51	Running 873846 (24)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 14:54:37	Running msw873846 (25)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 15:00:08	Running msdw873846 (26)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 15:05:40	Running 873848 (27)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 15:11:25	Running MRL (23)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 15:16:50	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 15:22:06	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 15:27:16	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 15:32:43	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/22/2010 15:38:12	Plasma extinguished successfully	NAH	Analyst	
	11/22/2010 15:38:13	Plasma off	NAH	iTEVA Control Center	
	11/22/2010 15:38:14	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 08:16:27	Plasma On	NAH	iTEVA Control Center	
	11/23/2010 08:16:30	Plasma ignition successful	NAH	Analyst	
	11/23/2010 08:17:17	D33534 - Debug:Wavelength check : x = 1.689, y =1.600	NAH	Analyst	
	11/23/2010 10:17:27	Autosampler Run Started	NAH	Analyst	
	11/23/2010 10:17:27	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 10:18:12	D33534 - Debug:Wavelength check : x = 1.655, y =1.545	NAH	Analyst	
	11/23/2010 10:18:35	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 10:24:02	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 10:29:32	Running CalibStd=0.5 (3)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 10:35:02	Running CalibStd=1 (4)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 10:40:32	Running CalibStd=5 (5)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 10:46:03	Running CalibStd=10 (6)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 10:51:33	Running CalibStd=20 (7)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 10:57:03	Running CalibStd=50 (8)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 11:02:30	Running CalibStd=100 (9)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 11:07:53	Running CalibStd=1000 (10)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 11:12:59	Running CalibStd=10000 (11)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 11:18:38	Running CalibStd-100k (12)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 11:24:32	Running CalibStd=100000 (13)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 11:30:19	Running CalibStd=500000 (14)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 11:36:24	Running CalibStd-1000k (15)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 11:42:38	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 11:48:07	Running icv (16)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 11:53:33	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 11:59:02	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 12:04:32	Running MRL (23)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 12:07:26	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 13:03:12	Autosampler Run Started	NAH	Analyst	

Type	Date/Time	Message	User name	Application	Sequence Name
	11/23/2010 13:03:12	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 13:03:57	D33534 - Debug:Wavelength check : x = 1.710, y =1.453	NAH	Analyst	
	11/23/2010 13:04:20	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 13:09:47	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 13:15:18	Running CalibStd=0.5 (3)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 13:20:48	Running CalibStd=1 (4)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 13:26:18	Running CalibStd=5 (5)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 13:31:49	Running CalibStd=10 (6)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 13:37:20	Running CalibStd=20 (7)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 13:42:22	Closing will close the method and all associated samples.	NAH	Analyst	
	11/23/2010 13:42:27	Closing will close the method and all associated samples.	NAH	Analyst	
	11/23/2010 13:42:49	Running CalibStd=50 (8)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 13:48:16	Running CalibStd=100 (9)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 13:53:38	Running CalibStd=1000 (10)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 13:58:44	Running CalibStd=10000 (11)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 14:04:26	Running CalibStd-100k (12)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 14:10:18	Running CalibStd=100000 (13)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 14:16:05	Running CalibStd=500000 (14)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 14:22:10	Running CalibStd-1000k (15)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 14:28:26	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 14:33:54	Running icv (16)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 14:39:20	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 14:44:49	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 14:50:18	Running MRL (23)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 14:55:44	Running icsa (20)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 15:01:51	Running icsab (21)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 15:07:40	Running lcss35471 (1)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 15:13:18	Running pdss871242 (2)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 15:18:47	Running pdss873014 (3)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 15:24:20	Running 869616 (4)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 15:30:07	Running mss869616 (5)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 15:35:39	Running msds869616 (6)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 15:41:38	Running 871242 (7)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 15:47:22	Running 871269 (8)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 15:53:07	Running 871270 (9)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 15:58:57	Running 871271 (10)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 16:04:46	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 16:10:03	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 16:15:14	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 16:20:44	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 16:26:17	Running 872831 (11)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 16:32:05	Running 873014 (12)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 16:38:04	Running lcss35468 (13)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 16:43:46	Running MRL (23)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 16:49:11	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 16:54:28	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 16:59:39	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 17:05:06	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/23/2010 17:10:35	Plasma off	NAH	iTEVA Control Center	
	11/23/2010 17:10:35	Plasma extinguished successfully	NAH	Analyst	
	11/23/2010 17:10:37	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	11/24/2010 07:35:10	Plasma On	NAH	iTEVA Control Center	
	11/24/2010 07:35:15	Plasma ignition successful	NAH	Analyst	
	11/24/2010 07:36:02	D33534 - Debug:Wavelength check : x = 1.700, y =1.615	NAH	Analyst	
	11/24/2010 11:34:49	Plasma extinguished successfully	NAH	Analyst	
	11/24/2010 11:34:50	Plasma off	NAH	iTEVA Control Center	
	11/29/2010 07:21:29	Plasma On	NAH	iTEVA Control Center	
	11/29/2010 07:21:33	Plasma ignition successful	NAH	Analyst	
	11/29/2010 07:22:20	D33534 - Debug:Wavelength check : x = 1.718, y =1.601	NAH	Analyst	
	11/29/2010 13:37:53	Autosampler Run Started	NAH	Analyst	
	11/29/2010 13:37:53	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 13:38:37	D33534 - Debug:Wavelength check : x = 1.710, y =1.531	NAH	Analyst	
	11/29/2010 13:38:59	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 13:44:28	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 13:49:58	Running CalibStd=0.5 (3)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 13:55:28	Running CalibStd=1 (4)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 14:00:58	Running CalibStd=5 (5)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 14:06:28	Running CalibStd=10 (6)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 14:11:58	Running CalibStd=20 (7)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 14:17:27	Running CalibStd=50 (8)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 14:22:53	Running CalibStd=100 (9)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 14:28:15	Running CalibStd=1000 (10)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 14:33:18	Running CalibStd=10000 (11)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 14:39:00	Running CalibStd-100k (12)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 14:44:53	Running CalibStd=100000 (13)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 14:50:40	Running CalibStd=500000 (14)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 14:56:43	Running CalibStd-1000k (15)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 15:02:58	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 15:08:27	Running icv (16)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 15:14:02	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 15:19:31	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 15:25:02	Running MRL (23)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 15:30:27	Running icsa (20)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 15:36:29	Running icsab (21)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 15:42:13	Running 871039 (1)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 15:47:54	Running lcss35475 (2)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 15:53:35	Running mbs35475 (3)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 15:59:05	Running 870200 (4)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 16:04:39	Running 870201 (5)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 16:10:24	Running l870201 (6)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 16:16:00	Running dup870201 (7)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 16:21:46	Running mss870201 (8)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 16:27:22	Running msds870201 (9)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 16:32:59	Running pdss870201 (10)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 16:39:01	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 16:44:18	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 16:49:29	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 16:55:00	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 17:00:32	Running 870202 (11)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 17:06:18	Running 870203 (12)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 17:12:04	Running 870204 (13)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 17:17:50	Running 870207 (14)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	11/29/2010 17:23:35	Running 871184 (15)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 17:29:22	Running 871186 (16)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 17:35:07	Running 871187 (17)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 17:40:54	Running 871188 (18)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 17:46:46	Running 871189 (19)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 17:52:33	Running 871190 (20)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 17:58:17	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 18:03:34	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 18:08:46	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 18:14:17	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 18:19:48	Running 871191 (21)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 18:25:44	Running 871192 (22)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 18:31:32	Running 871193 (23)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 18:37:22	Running 871194 (24)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 18:42:52	Running 871195 (25)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 18:48:23	Running 871196 (26)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 18:54:01	Running 871197 (27)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 18:59:48	Running 871198 (28)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 19:05:32	Running lcss35484 (29)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 19:11:14	Running mbs35484 (30)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 19:16:44	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 19:22:00	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 19:27:12	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 19:32:42	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 19:38:13	Running 872313 (31)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 19:43:59	Running l872313 (32)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 19:49:43	Running dup872313 (33)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 19:55:30	Running mss872313 (34)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 20:01:13	Running msds872313 (35)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 20:06:56	Running pdss872313 (36)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 20:12:33	Running 872314 (37)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 20:18:21	Running lcsw35497 (38)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 20:24:02	Running mbw35497 (39)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 20:29:32	Running 869439 (40)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 20:35:08	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 20:40:26	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 20:45:37	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 20:51:07	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 20:56:38	Running pdsw869439 (41)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 21:02:40	Running lcsw35514 (42)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 21:08:23	Running 873345 (43)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 21:14:02	Running msw873345 (44)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 21:19:41	Running msdw873345 (45)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 21:25:20	Running pdsw873345 (46)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 21:30:58	Running lcss35548 (47)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 21:36:42	Running mbs35548 (48)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 21:42:12	Running 874843 (49)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 21:47:56	Running 874851 (50)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 21:53:40	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 21:58:58	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 22:04:09	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	11/29/2010 22:09:39	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 22:15:10	Running 874852 (51)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 22:20:56	Running 874853 (52)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 22:26:41	Running 874854 (53)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 22:32:25	Running 874855 (54)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 22:38:08	Running l874855 (55)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 22:43:45	Running dup874855 (56)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 22:49:24	Running mss874855 (57)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 22:55:01	Running msds874855 (58)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 23:00:47	Running pdss874855 (59)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 23:06:42	Running 874856 (60)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 23:12:29	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 23:17:47	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 23:22:58	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 23:28:28	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 23:33:58	Running 874857 (61)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 23:39:45	Running 874858 (62)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 23:45:34	Running 874861 (63)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 23:51:18	Running 874862 (64)	NAH	Analyst	S_DOD Calibration 1
	11/29/2010 23:57:02	Running lcss35547 (65)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 00:02:44	Running mbs35547 (66)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 00:08:15	Running 873464 (67)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 00:14:01	Running l873464 (68)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 00:19:53	Running dup873464 (69)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 00:25:45	Running mss873464 (70)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 00:31:28	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 00:36:45	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 00:41:57	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 00:47:27	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 00:52:58	Running msds873464 (71)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 00:58:42	Running pdss873464 (72)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 01:04:18	Running 873465 (73)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 01:09:56	Running 873466 (74)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 01:15:39	Running 873467 (75)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 01:21:24	Running 873468 (76)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 01:27:10	Running 873469 (77)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 01:32:50	Running 873470 (78)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 01:38:35	Running 873471 (79)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 01:44:15	Running 873473 (80)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 01:49:51	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 01:55:08	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 02:00:19	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 02:05:49	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 02:11:19	Running 873638 (81)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 02:17:11	Running 873639 (82)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 02:23:00	Running 873640 (83)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 02:28:53	Running 873641 (84)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 02:34:31	Running MRL (23)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 02:39:55	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 02:45:13	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 02:50:24	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	11/30/2010 02:55:52	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 03:01:20	Plasma off	NAH	iTEVA Control Center	
	11/30/2010 03:01:20	Plasma extinguished successfully	NAH	Analyst	
	11/30/2010 03:01:22	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 06:53:27	Plasma On	NAH	iTEVA Control Center	
	11/30/2010 06:53:32	Plasma ignition successful	NAH	Analyst	
	11/30/2010 06:54:18	D33534 - Debug:Wavelength check : x = 1.810, y =1.676	NAH	Analyst	
	11/30/2010 14:12:14	Autosampler Run Started	NAH	Analyst	
	11/30/2010 14:12:14	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 14:12:59	D33534 - Debug:Wavelength check : x = 1.710, y =1.541	NAH	Analyst	
	11/30/2010 14:13:22	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 14:18:52	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 14:24:21	Running CalibStd=0.5 (3)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 14:29:51	Running CalibStd=1 (4)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 14:33:09	Closing will close the method and all associated samples.	NAH	Analyst	
	11/30/2010 14:35:20	Running CalibStd=5 (5)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 14:40:49	Running CalibStd=10 (6)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 14:46:20	Running CalibStd=20 (7)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 14:51:50	Running CalibStd=50 (8)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 14:57:15	Running CalibStd=100 (9)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 15:02:38	Running CalibStd=1000 (10)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 15:07:40	Running CalibStd=10000 (11)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 15:13:07	Running CalibStd-100k (12)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 15:19:00	Running CalibStd=100000 (13)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 15:24:52	Running CalibStd=500000 (14)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 15:31:00	Running CalibStd-1000k (15)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 15:37:10	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 15:42:39	Running icv (16)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 15:48:02	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 15:53:31	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 15:59:01	Running MRL (23)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 16:04:26	Running icsa (20)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 16:10:29	Running icsab (21)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 16:16:12	Running lcsw35583 (1)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 16:22:00	Running mbw35583 (2)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 16:27:30	Running 874695 (3)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 16:33:33	Running 874699 (4)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 16:39:32	Running 874705 (5)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 16:45:34	Running 876566 (6)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 16:51:32	Running 875730 (7)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 16:57:21	Running 875765 (8)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 17:02:51	Running l876765 (9)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 17:08:22	Running msw876765 (10)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 17:14:12	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 17:19:22	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 17:24:33	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 17:30:03	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 17:35:35	Running msdw876765 (11)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 17:41:26	Running pdsw876765 (12)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 17:47:11	Running 875608 (13)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 17:52:32	Running 875609 (14)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	11/30/2010 17:58:29	Running 875610 (15)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 18:04:19	Running 875611 (16)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 18:10:08	Running 875612 (17)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 18:15:30	Running 875731 (18)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 18:21:25	Running msw875731 (19)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 18:27:03	Running msdw875731 (20)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 18:32:41	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 18:37:50	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 18:43:03	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 18:48:32	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 18:54:04	Running lcss35585 (21)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 18:59:17	Running mbs35585 (22)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 19:04:48	Running 870995 (23)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 19:10:29	Running l870995 (24)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 19:16:11	Running dup870995 (25)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 19:21:59	Running mss870995 (26)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 19:27:42	Running msds870995 (27)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 19:33:17	Running pdss870995 (28)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 19:39:13	Running 872620 (29)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 19:44:54	Running l872620 (30)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 19:50:25	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 19:55:34	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 20:00:45	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 20:06:14	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 20:11:45	Running dup872620 (31)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 20:17:30	Running mss872620 (32)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 20:23:09	Running msds872620 (33)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 20:28:50	Running pdss872620 (34)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 20:34:30	Running 872621 (35)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 20:40:05	Running lcss35543 (36)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 20:45:19	Running mbs35543 (37)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 20:50:49	Running 874281 (38)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 20:56:21	Running mss874281 (39)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 21:01:42	Running msds874281 (40)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 21:07:04	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 21:12:14	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 21:17:26	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 21:22:56	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 21:28:27	Running pdss874281 (41)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 21:34:08	Running 874282 (42)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 21:39:53	Running 874283 (43)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 21:45:18	Running 874284 (44)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 21:51:00	Running 874285 (45)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 21:56:32	Running 874286 (46)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 22:01:57	Running 874287 (47)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 22:07:31	Running 874288 (48)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 22:12:55	Running 874289 (49)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 22:18:36	Running 874290 (50)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 22:24:08	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 22:29:17	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 22:34:29	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	11/30/2010 22:39:59	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 22:45:29	Running 874291 (51)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 22:51:01	Running 874292 (52)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 22:56:45	Running 874293 (53)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 23:02:35	Running 874294 (54)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 23:08:18	Running 874295 (55)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 23:14:05	Running 874296 (56)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 23:19:51	Running 874297 (57)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 23:25:39	Running 874298 (58)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 23:31:21	Running 874299 (59)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 23:36:53	Running 874300 (60)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 23:42:18	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 23:47:28	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 23:52:40	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	11/30/2010 23:58:09	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 00:03:40	Running lcss35544 (61)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 00:08:57	Running mbs35544 (62)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 00:14:28	Running 874301 (63)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 00:20:15	Running mss874301 (64)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 00:25:48	Running msds874301 (65)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 00:31:17	Running pdss874301 (66)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 00:36:55	Running 874302 (67)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 00:42:36	Running 874303 (68)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 00:48:26	Running 874304 (69)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 00:54:14	Running 874305 (70)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 00:59:57	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 01:05:07	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 01:10:19	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 01:15:49	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 01:21:20	Running lod 3010 (71)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 01:26:51	Running loq 3010 (72)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 01:32:22	Running lod 3050 (73)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 01:37:53	Running loq 3050 (74)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 01:43:23	Running MRL (23)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 01:48:48	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 01:53:59	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 01:59:09	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 02:04:36	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 02:10:04	Plasma off	NAH	iTEVA Control Center	
	12/01/2010 02:10:04	Plasma extinguished successfully	NAH	Analyst	
	12/01/2010 02:10:06	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 07:27:22	Plasma On	NAH	iTEVA Control Center	
	12/01/2010 07:27:27	Plasma ignition successful	NAH	Analyst	
	12/01/2010 07:28:13	D33534 - Debug:Wavelength check : x = 1.710, y =1.619	NAH	Analyst	
	12/01/2010 13:28:51	Autosampler Run Started	NAH	Analyst	
	12/01/2010 13:28:51	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 13:29:35	D33534 - Debug:Wavelength check : x = 1.710, y =1.533	NAH	Analyst	
	12/01/2010 13:29:57	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 13:35:26	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 13:39:47	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 13:40:16	Autosampler Run Started	NAH	Analyst	

Type	Date/Time	Message	User name	Application	Sequence Name
	12/01/2010 13:40:16	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 13:41:01	D33534 - Debug:Wavelength check : x = 1.710, y =1.478	NAH	Analyst	
	12/01/2010 13:41:24	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 13:46:52	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 13:52:22	Running CalibStd=0.5 (3)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 13:57:52	Running CalibStd=1 (4)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 14:03:22	Running CalibStd=5 (5)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 14:08:53	Running CalibStd=10 (6)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 14:14:24	Running CalibStd=20 (7)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 14:19:54	Running CalibStd=50 (8)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 14:25:20	Running CalibStd=100 (9)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 14:30:44	Running CalibStd=1000 (10)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 14:35:49	Running CalibStd=10000 (11)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 14:41:32	Running CalibStd-100k (12)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 14:47:04	Running CalibStd=100000 (13)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 14:52:56	Running CalibStd=500000 (14)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 14:58:46	Running CalibStd-1000k (15)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 15:05:00	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 15:10:26	Running icv (16)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 15:16:02	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 15:21:31	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 15:27:01	Running MRL (23)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 15:32:26	Running icsa (20)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 15:38:26	Running icsab (21)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 15:44:05	Running lcsw35479 (1)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 15:49:48	Running pdss869616 (2)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 15:55:24	Running 872831 (3)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 16:01:16	Running 872014 (4)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 16:07:18	Running 876422 (5)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 16:13:15	Running msw876422 (6)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 16:18:57	Running msdw876422 (7)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 16:24:42	Running 876423 (8)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 16:30:41	Running 876424 (9)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 16:36:41	Running 876425 (10)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 16:42:41	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 16:47:50	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 16:53:02	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 16:58:32	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 17:04:03	Running 876426 (11)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 17:09:31	Running lcss35598 (12)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 17:14:45	Running mbs35598 (13)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 17:20:14	Running 876429 (14)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 17:26:02	Running mss876429 (15)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 17:31:37	Running msds876429 (16)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 17:37:13	Running pdss876429 (17)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 17:42:54	Running 876430 (18)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 17:48:40	Running 876431 (19)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 17:54:26	Running lcss35589 (20)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 18:00:02	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 18:05:10	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 18:10:22	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	12/01/2010 18:15:51	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 18:21:22	Running mbs35589 (21)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 18:26:52	Running 874473 (22)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 18:32:25	Running l874473 (23)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 18:38:09	Running dup874473 (24)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 18:43:42	Running mss874473 (25)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 18:49:34	Running msds874473 (26)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 18:55:22	Running pdss874473 (27)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 19:01:12	Running 874474 (28)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 19:06:46	Running 874475 (29)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 19:12:17	Running 874476 (30)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 19:17:49	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 19:22:58	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 19:28:09	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 19:33:39	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 19:39:10	Running 874477 (31)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 19:44:42	Running 874478 (32)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 19:50:13	Running 874479 (33)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 19:55:54	Running 874480 (34)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 20:01:26	Running lcss35590 (35)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 20:06:52	Running mbs35590 (36)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 20:12:23	Running 874481 (37)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 20:17:55	Running l874481 (38)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 20:23:39	Running dup874481 (39)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 20:29:09	Running mss874481 (40)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 20:34:43	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 20:39:52	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 20:45:04	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 20:50:34	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 20:56:05	Running msds874481 (41)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 21:01:37	Running pdss874481 (42)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 21:07:33	Running 874482 (43)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 21:13:05	Running 874483 (44)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 21:18:35	Running 874484 (45)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 21:24:06	Running 874485 (46)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 21:29:46	Running 874486 (47)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 21:35:19	Running 874487 (48)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 21:40:52	Running 874488 (49)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 21:46:24	Running MRL (23)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 21:51:50	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 21:56:59	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 22:02:10	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 22:07:37	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/01/2010 22:13:07	Plasma extinguished successfully	NAH	Analyst	
	12/01/2010 22:13:07	Plasma off	NAH	iTEVA Control Center	
	12/01/2010 22:13:09	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	12/02/2010 09:09:44	Plasma On	NAH	iTEVA Control Center	
	12/02/2010 09:09:49	Plasma ignition successful	NAH	Analyst	
	12/02/2010 09:10:35	D33534 - Debug:Wavelength check : x = 1.710, y =1.622	NAH	Analyst	
	12/02/2010 09:50:21	Plasma extinguished successfully	NAH	Analyst	
	12/02/2010 09:50:22	Plasma off	NAH	iTEVA Control Center	

Type	Date/Time	Message	User name	Application	Sequence Name
	12/02/2010 10:04:33	Plasma On	NAH	iTEVA Control Center	
	12/02/2010 10:04:37	Plasma ignition successful	NAH	Analyst	
	12/02/2010 10:05:39	D33534 - Debug:Wavelength check : x = 1.710, y =1.604	NAH	Analyst	
	12/02/2010 13:31:08	Torch alignment successfully completed.	NAH	Analyst	
	12/02/2010 13:32:54	D33534 - Debug:Wavelength check : x = 1.710, y =1.513	NAH	Analyst	
	12/02/2010 13:34:22	Auto Peak	NAH	Analyst	
	12/02/2010 13:35:43	Auto Peak	NAH	Analyst	
	12/02/2010 13:37:32	D33534 - Debug:Wavelength check : x = 1.710, y =1.462	NAH	Analyst	
	12/02/2010 13:40:51	Auto Peak	NAH	Analyst	
	12/02/2010 13:43:13	Auto Peak	NAH	Analyst	
	12/02/2010 14:25:04	Plasma off	NAH	iTEVA Control Center	
	12/02/2010 14:25:04	Plasma extinguished successfully	NAH	Analyst	
	12/03/2010 06:25:50	Plasma On	NAH	iTEVA Control Center	
	12/03/2010 06:25:54	Plasma ignition successful	NAH	Analyst	
	12/03/2010 06:26:41	D33534 - Debug:Wavelength check : x = 1.573, y =1.646	NAH	Analyst	
	12/03/2010 06:26:56	E9000 - : Plasma ignition failed; please refer to error messages in iTEV	NAH	iTEVA Control Center	
	12/03/2010 06:29:44	Plasma ignition successful	NAH	Analyst	
	12/03/2010 06:30:31	D33534 - Debug:Wavelength check : x = 1.638, y =1.572	NAH	Analyst	
	12/03/2010 06:49:49	Plasma ignition successful	NAH	Analyst	
	12/03/2010 06:50:35	D33534 - Debug:Wavelength check : x = 1.421, y =1.516	NAH	Analyst	
	12/03/2010 06:59:04	Plasma ignition successful	NAH	Analyst	
	12/03/2010 06:59:50	D33534 - Debug:Wavelength check : x = 1.465, y =1.582	NAH	Analyst	
	12/03/2010 08:24:42	Plasma On	NAH	iTEVA Control Center	
	12/03/2010 12:33:44	Autosampler Run Started	NAH	Analyst	
	12/03/2010 12:33:44	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 12:34:28	D33534 - Debug:Wavelength check : x = 1.709, y =1.448	NAH	Analyst	
	12/03/2010 12:34:51	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 12:40:21	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 12:45:50	Running CalibStd=0.5 (3)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 12:51:20	Running CalibStd=1 (4)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 12:56:50	Running CalibStd=5 (5)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 13:02:21	Running CalibStd=10 (6)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 13:07:53	Running CalibStd=20 (7)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 13:13:22	Running CalibStd=50 (8)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 13:18:48	Running CalibStd=100 (9)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 13:24:12	Running CalibStd=1000 (10)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 13:28:50	Closing will close the method and all associated samples.	NAH	Analyst	
	12/03/2010 13:29:17	Running CalibStd=10000 (11)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 13:35:02	Running CalibStd-100k (12)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 13:40:56	Running CalibStd=100000 (13)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 13:46:48	Running CalibStd=500000 (14)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 13:52:40	Running CalibStd-1000k (15)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 13:58:53	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 14:04:19	Running icv (16)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 14:06:53	Closing will close the method and all associated samples.	NAH	Analyst	
	12/03/2010 14:09:53	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 14:15:22	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 14:20:52	Running MRL (23)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 14:26:19	Running icsa (20)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 14:29:22	Closing will close the method and all associated samples.	NAH	Analyst	
	12/03/2010 14:32:18	Running icsab (21)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	12/03/2010 14:37:58	Running 870204 (1)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 14:43:38	Running 870207 (2)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 14:49:16	Running 871184 (3)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 14:54:58	Running 871186 (4)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 15:00:41	Running 871187 (5)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 15:06:23	Running 871188 (6)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 15:12:11	Running 871189 (7)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 15:17:52	Running 871190 (8)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 15:23:33	Running 871191 (9)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 15:29:20	Running 871192 (10)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 15:35:01	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 15:40:11	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 15:45:23	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 15:50:53	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 15:56:24	Running 871193 (11)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 16:02:07	Running 871194 (12)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 16:07:54	Running 871195 (13)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 16:13:32	Running 871196 (14)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 16:19:15	Running 871197 (15)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 16:24:58	Running 871198 (16)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 16:30:38	Running lcss35621 (17)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 16:36:17	Running mbs35621 (18)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 16:41:48	Running 876763 (19)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 16:47:29	Running 876771 (20)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 16:53:05	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 16:58:16	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 17:03:28	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 17:08:57	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 17:14:28	Running 876772 (21)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 17:20:09	Running 876773 (22)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 17:25:49	Running 876774 (23)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 17:31:31	Running 876775 (24)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 17:37:12	Running 876776 (25)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 17:42:53	Running 876777 (26)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 17:48:38	Running l876777 (27)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 17:54:13	Running dup876777 (28)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 17:59:54	Running mss876777 (29)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 18:05:27	Running msds876777 (30)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 18:11:10	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 18:16:20	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 18:21:32	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 18:27:01	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 18:32:32	Running pdss876777 (31)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 18:38:16	Running 876778 (32)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 18:43:57	Running 876779 (33)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 18:49:50	Running 876780 (34)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 18:55:31	Running lcss35624 (35)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 19:01:12	Running mbw35624 (36)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 19:06:42	Running 870188 (37)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 19:12:26	Running 870189 (38)	NAH	Analyst	S_DOD Calibration 1
	12/03/2010 19:18:02	Running l870189 (39)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	11/19/2010 17:28:56	Running mbs35471 (38)	NAH	Analyst	S_Sodium and Pota
	11/19/2010 17:31:27	Running 869616 (39)	NAH	Analyst	S_Sodium and Pota
	11/19/2010 17:34:10	Running mss869616 (40)	NAH	Analyst	S_Sodium and Pota
	11/19/2010 17:36:53	Running ccv (14)	NAH	Analyst	S_Sodium and Pota
	11/19/2010 17:39:21	Running ccb (15)	NAH	Analyst	S_Sodium and Pota
	11/19/2010 17:41:50	Running msds869616 (41)	NAH	Analyst	S_Sodium and Pota
	11/19/2010 17:44:33	Running 872672 (42)	NAH	Analyst	S_Sodium and Pota
	11/19/2010 17:46:59	Running 872749 (43)	NAH	Analyst	S_Sodium and Pota
	11/19/2010 17:49:25	Running 872754 (44)	NAH	Analyst	S_Sodium and Pota
	11/19/2010 17:51:51	Running 872755 (45)	NAH	Analyst	S_Sodium and Pota
	11/19/2010 17:54:16	Running 872756 (46)	NAH	Analyst	S_Sodium and Pota
	11/19/2010 17:56:50	Running 872831 (47)	NAH	Analyst	S_Sodium and Pota
	11/19/2010 17:59:17	Running lcsw35479 (48)	NAH	Analyst	S_Sodium and Pota
	11/19/2010 18:01:54	Running mbw35479 (49)	NAH	Analyst	S_Sodium and Pota
	11/19/2010 18:04:24	Running 872775 (50)	NAH	Analyst	S_Sodium and Pota
	11/19/2010 18:07:00	Running ccv (14)	NAH	Analyst	S_Sodium and Pota
	11/19/2010 18:09:27	Running ccb (15)	NAH	Analyst	S_Sodium and Pota
	11/19/2010 18:11:57	Running lcss35367 (51)	NAH	Analyst	S_Sodium and Pota
	11/19/2010 18:14:26	Running mss867271 (52)	NAH	Analyst	S_Sodium and Pota
	11/19/2010 18:17:01	Running msds867271 (53)	NAH	Analyst	S_Sodium and Pota
	11/19/2010 18:19:37	Running ccv (14)	NAH	Analyst	S_Sodium and Pota
	11/19/2010 18:22:05	Running ccb (15)	NAH	Analyst	S_Sodium and Pota
	11/19/2010 18:24:33	Plasma extinguished successfully	NAH	Analyst	
	11/19/2010 18:24:34	Plasma off	NAH	iTEVA Control Center	
	11/19/2010 18:24:35	Autosampler Run Completed	NAH	Analyst	S_Sodium and Pota
	11/22/2010 06:32:34	Plasma On	NAH	iTEVA Control Center	
	11/22/2010 06:32:39	Plasma ignition successful	NAH	Analyst	
	11/22/2010 06:33:18	D33534 - Debug:Wavelength check : x = -1.619, y =0.923	NAH	Analyst	
	11/22/2010 07:04:52	Autosampler Run Started	NAH	Analyst	
	11/22/2010 07:04:52	Sequence Started	NAH	Analyst	S_Sodium and Pota
	11/22/2010 07:05:36	D33534 - Debug:Wavelength check : x = -1.632, y =0.855	NAH	Analyst	
	11/22/2010 07:05:58	Running Blank (1)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 07:08:36	Running CalibStd-0.5 (2)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 07:11:04	Running CalibStd-1.0 (3)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 07:13:31	Running CalibStd-5.0 (4)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 07:15:57	Running CalibStd-10.0 (5)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 07:18:24	Running CalibStd-50 (6)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 07:20:51	Running CalibStd-100 (7)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 07:23:18	Running CalibStd-200 (8)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 07:25:43	Running CalibStd-500 (9)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 07:28:24	Running icv (10)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 07:30:50	Running icb (11)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 07:33:18	Running mrl (16)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 07:35:44	Running icsa (12)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 07:38:26	Running icsab (13)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 07:41:06	Running lcss35475 (1)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 07:43:40	Running mbs35475 (2)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 07:46:08	Running 870200 (3)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 07:48:39	Running 870201 (4)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 07:51:02	Running l870201 (5)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 07:52:46	Closing will close the method and all associated samples.	NAH	Analyst	

Type	Date/Time	Message	User name	Application	Sequence Name
	11/22/2010 07:53:26	Running dup870201 (6)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 07:54:33	Closing will close the method and all associated samples.	NAH	Analyst	
	11/22/2010 07:55:48	Running mss870201 (7)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 07:58:20	Running msds870201 (8)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 08:00:53	Running pdss870201 (9)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 08:03:18	Running 870202 (10)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 08:05:50	Running ccv (14)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 08:08:18	Running ccb (15)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 08:10:46	Running 870203 (11)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 08:13:10	Running 870204 (12)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 08:15:33	Running 870207 (13)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 08:18:05	Running 871184 (14)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 08:20:43	Running 871186 (15)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 08:23:23	Running 871187 (16)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 08:25:48	Running 871188 (17)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 08:28:29	Running 871189 (18)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 08:31:03	Running 871190 (19)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 08:33:27	Running 871191 (20)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 08:36:08	Running ccv (14)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 08:38:35	Running ccb (15)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 08:41:03	Running 871192 (21)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 08:43:35	Running 871193 (22)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 08:46:16	Running 871194 (23)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 08:48:41	Running 871195 (24)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 08:51:05	Running 871196 (25)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 08:53:38	Running 871197 (26)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 08:56:10	Running 871198 (27)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 08:58:50	Running lcss35484 (28)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 09:01:24	Running mbs35484 (29)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 09:03:52	Running 872313 (30)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 09:06:42	Running ccv (14)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 09:09:08	Running ccb (15)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 09:11:36	Running l872313 (31)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 09:14:08	Running dup872313 (32)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 09:16:58	Running mss872313 (33)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 09:19:48	Running msds872313 (34)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 09:22:39	Running pdss872313 (35)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 09:25:29	Running 872314 (36)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 09:28:20	Running lcss35471 (37)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 09:30:48	Running mbs35471 (38)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 09:33:16	Running 869616 (39)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 09:35:59	Running mss869616 (40)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 09:38:42	Running ccv (14)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 09:41:08	Running ccb (15)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 09:43:36	Running msds869616 (41)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 09:46:17	Running 872672 (42)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 09:48:42	Running 872749 (43)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 09:51:07	Running 872754 (44)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 09:53:32	Running 872755 (45)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 09:55:56	Running 872756 (46)	NAH	Analyst	S_Sodium and Pota
	11/22/2010 09:58:21	Running 872831 (47)	NAH	Analyst	S_Sodium and Pota

#M9954 12/02/10 Hg 1000 mg/L Spex CertiPrep Lot No. CL5-49Hg
GLE Expires 11-30-11

#M9955 12/02/10 Interferents A Spex CertiPrep Lot No. 42-6AS
GLE Expires: 11-30-11

#M9956 12/02/10 Si 1000 mg/L Spex CertiPrep Lot No. 15-172S1
GLE Expires: 11-30-11

#M9957 12/02/10 Magnesium Nitrate Matrix Modifier Solution (20,000 mg/L Mg)
GLE Spex CertiPrep Lot No. I-169MG2, Expires 11-30-11

#M9958 12/02/10 1N HCl for TCLP: Into a 1L vol. flask, partially filled with Milli-Q H_2O, add 83mL of conc. HCl (A.C.S.) and bring up to volume with Milli-Q H_2O.
CSF
Exp: 12/02/11

#M9943 11/29/10 TCLP Extraction Fluid #2: Into a 20L Carboy, pipet 114mL of Glacial Acetic Acid (AB·499). Bring up to 20L with D.I. H_2O. pH = 2.88 ± 0.05
Exp. 11-29-11

#M9944 11/29/10 Potassium Permanganate Soln: 50g Potassium Permanganate (#M8969) dissolved into 1000mL D.I. H_2O.
GJE Exp. 05/29/11

#M9945 11/29/10 GJE	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9946 11/29/10 GJE	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9947 11/29/10 GJE	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 9946) into 100ml = 3.0ug/L Hg
#M9948 11/29/10 GJE	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9949 11/29/10 GJE	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 9946) into 100ml = 0.2ug/L Hg
#M9950 GJE 11/29/10 11/29/10 GJE	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 514) with 1part HNO3 (AB: 515)

#M9951 Tclp Extraction fluid #1 - Fill a 20L carboy with 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB·499) and 128.6mL 10N NaOH (#M9744). Dilute to 20L with D.I. H_2O and mix. The pH = 4.93 ± 0.05.

#M9952 Tclp Extraction fluid #2 - Into a 20L carboy, pipet 114mL of Glacial Acetic Acid (AB·499). Bring up to 20L with D.I. H_2O. pH = 2.88 ± 0.05.

#M9953 TCLP Extraction Fluid #2: Into a 20L Carboy, pipet 114mL Glacial Acetic Acid (AB·499). Bring up to 20L with D.I. H_2O. pH = 2.88 ± 0.05
12/01/10 GJE Exp. 12/01/11

#M9930 11/23/10 Be 1000 mg/L Spex CertiPrep Lot No. 15-127BE Exp. 11-15-11
GvE

#M9931 11/23/10 Mo 1000 mg/L Spex CertiPrep Lot No. 15-110MO Exp. 11-15-11
GvE

#M9932 11/23/10 Na 10,000 mg/L Spex CertiPrep Lot No. AE12-119NA Exp. 11-15-11
GvE

#M9933 11/23/10 W 1000 µg/mL SCP Science Lot No. SC0301406 Exp. 08/2012
GvE

#M9934 11/28/10 Spike Sample Standard 1 Lot No. 42-80As Exp. 11-15-11
GvE

#M9935 11/23/10 AmA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9936 11/23/10 AmA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9937 11/23/10 AmA	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9936) into 100ml = 3.0ug/L Hg
#M9938 11/23/10 AmA	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9939 11/23/10 AmA	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9936) into 100ml = 0.2ug/L Hg
#M9940 11/23/10 AmA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 514) with 1part HNO3 (AB: 515)

#M9941 11/23/10 AmA NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M9574(1)) and 60g Hydroxylamine Sulfate (#M9831) in 500mL Milli-Q H_2O. Exp. 05/23/11

#9942 11/24/10 GvE Stannous Chloride Reagent: Into a 1000mL vol. flask, dissolve 100g Stannous Chloride (#M9785b) in 70mL HCL (AB.514). Bring up to volume with DI H_2O. Exp. 11-24-11

#M9943

#M9944 Gv

#M9945 11 GvE

#M9946 GvE

#M9947 GvE

#M9948 11 GvE

#M9949 11 GvE

#M9950 GvE 11/23/10 GvE

#M9951 Tc

#M9952 TCl

#M9953 TCl 01/01/10 GvE

#M9916 10/16/10 AmA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9917 11/16/10 AmA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9918 11/16/10 AmA	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 9917) into 100ml = 3.0ug/L Hg
#M9919 11/16/10 AmA	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9920 11/16/10 AmA	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 9917) into 100ml = 0.2ug/L Hg
#M9921 11/16/10 AmA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 508) with 1part HNO3 (AB: 511)

#M9922 11/23/10 Tl 1000 mg/L Spex Certiprep Lot No. 16-113TL Exp. 11-15-11
GvE

Stannous
38).
11-10-11

#M9923 11/23/10 Ti 1000 mg/L Spex CertiPrep Lot No. 16-128TI Exp. 11-15-11
GvE

2 (200 NTU)

#M9924 11/23/10 GvE 11-23-10 W 1000 mg/L Spex CertiPrep Lot No. 16-117W Exp. 11-15-11
GvE

KTU
NTU
NTU

#M9925 11/23/10 Sn 1000 mg/L Spex CertiPrep Lot No. CL5-45SN Exp. 11-15-11
GvE

#M9926 11/23/10 Sr 1000 mg/L Spex CertiPrep Lot No. 16-71SR Exp. 11-15-11
GvE

#M9927 11/23/10 Ni 1000 mg/L Spex CertiPrep Lot No. 15-121NI Exp. 11-15-11
GvE

#M9928 11/23/10 Co 1000 mg/L Spex CertiPrep Lot No. CL5-52CO Exp. 11-15-11
GvE

#M9929 11/23/10 Li 1000 mg/L Spex CertiPrep Lot No. 16-61LI Exp. 11-15-11
GvE

#M9906 11/09/10 AMA — Potassium Permanganate Sol'n: 50g Potassium Permanganate (#M8969) dissolved into 1000mL D.I. H_2O. Exp. 05/09/11

M9907 11/09/10 AMA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
M9908 11/09/10 AMA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
M9909 11/09/10 AMA	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9908) into 100ml = 3.0ug/L Hg
M9910 11/09/10 AMA	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
M9911 11/09/10 AMA	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9908) into 100ml = 0.2ug/L Hg
M9912 11/09/10 AMA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 508) with 1part HNO3 (AB: 511)

#M9913 11/10/10 GJE — Stannous Chloride Reagent: Into a 1000 mL vol. flask, dissolve 100g Stannous Chloride (#M97856) in 70mL HCl (AB-508). Bring up to volume with D.I. H_2O. Exp. 11-10-11

#M9914 11/12/10 GJE — Turbidity Working Stds: Into 20 mLs pipet from #M8730 (200 NTU)
Gel Ex Stds:
4.95 — 2.0mL into 18mL D.I H_2O = 20 NTU
58.3 — 10mL into 10mL D.I. H_2O = 100 NTU
539 — 20mL into 0mL D.I H_2O = 200 NTU
(Exp. 12/10)

#M9915 11/12/10 GJE — Silicon Standard 1000-ppm Fisher Chemical Lot No. 102251
Expires 04/12

#M9916 11/16/10 AMA — Hg Wo (0.2% H

#M9917 11/16/10 AMA — Hg Alt S (0.2% H

#M9918 11/16/10 AMA — Hg ICV (0.2% H

#M9919 11/16/10 AMA — Hg CCV (0.2% H

#M9920 11/16/10 AMA — Hg MRL (0.2% H

#M9921 11/16/10 AMA — Hg Aqu

#M9922 11/23/10 GJE — Tl

#M9923 11/23/10 GJE — Ti

#M9924 11/23/10 GJE — W (GJE 11-23-10)

#M9925 11/23/10 GJE — Sn

#M9926 11/23/10 GJE — Sr

#M9927 11/23/10 GJE — Ni

#M9928 11/23/10 — Co

#M9896 11/02/10 AmA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9897 11/02/10 AmA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9898 11/02/10 AmA	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9897) into 100ml = 3.0ug/L Hg
#M9899 11/02/10 AmA	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9900 11/02/10 AmA	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9897) into 100ml = 0.2ug/L Hg
#M9901 11/02/10 AmA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 508) with 1part HNO3 (AB: 511)

#M9902 11/07/10 CEL TCLP Extraction Fluid#1: Fill a 20L carboy w/ 19L D.I. H_2O. Add 114ml Glacial Acetic Acid (AB: 968) and 128.6ml 10N NaOH (#M9636) Dilute to 20L w/ D.I. H_2O and mix. pH = 4.93 ± 0.05 11/07/10 AmA

EXP: 11/07/11

#M9903 11/08/10 GE Potassium Permanganate: ~~50g~~ 11-08-10 ONE Fisher Scientific Lot No. 102677

#M9904 11/8/10 JA

Working Standards for Sodium and Potassium; into seven, 250 ml volumetric flasks pipette from #M9661 and #M9660.

For the 0.5 mg/L std– 0.1 mls each
1.0 mg/L std – 0.2 mls each
5.0 mg/L std – 1.0 mls each
10.0 mg/L std – 2.0 mls each
50.0 mg/L std - 10.0 mls each
100 mg/L std -20.0 mls each also used for Continuing Calibration Standard (CCV)
200 mg/L std -40.0 mls each
Bring up to mark with DI H2O. expires June 2011.

#M9905 11-8-10 JA

Initial Calibration Standard (ICV) Into 500 ml volumetric pipette 5 mls of #M9863 and #M9280 and bring up to mark with DI H2O. expires Dec 2010

#M9884 10/19/10 AMA Potassium Permanganate Soln: 50g Potassium Permanganate (#M8969) dissolved into 1000mL D.I. H_2O. Exp. 04/19/11

#M9885 10/26/10 AMA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9886 10/26/10 AMA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9887 10/26/10 AMA	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9886) into 100ml = 3.0ug/L Hg
#M9888 10/26/10 AMA	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9889 10/26/10 AMA	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9886) into 100ml = 0.2ug/L Hg
#M9890 10/26/10 AMA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 508) with 1part HNO3 (AB: 511)

#M9891 10/27/10 GAE Stannous Chloride Reagent - Into a 1000mL Vol. Flask, dissolve 100g Stannous Chloride (#M9785) in 70mL HCl (AB-508). Bring up to volume with D.I. H_2O. Exp. 10-27-11

#M9892 11/02/10 TSV TCLP Extraction Fluid #1: Fill a 20L carboy w/19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB-4168) and 128.6mL 10N NaOH (#M9836) Dilute to 20L w/D.I. H_2O and mix. pH = 4.93 ± 0.05 11/02/10 GSF Exp: 11/02/11

#M9893 11/02/10 AMA Potassium Persulfate: 50g Potassium Persulfate (#M9814) dissolved into 1000mL D.I. H_2O. Exp. 05/02/11

#M9894 11/02/10 AMA Potassium Permanganate Soln: 50g Potassium Permanganate (#M8969) dissolved into 1000mL D.I. H_2O. Exp. 05/02/11

#M9895 11/02/10 AMA NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M9574(A)) and 60g Hydroxylamine sulfate (#M9831) in 500mL Milli-Q H_2O. Exp 05/02/11

#M9870 10/12/10 AmA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9871 10/12/10 AmA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9872 10/12/10 AmA	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9871) into 100ml = 3.0ug/L Hg
#M9873 10/12/10 AmA	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9874 10/12/10 AmA	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9871) into 100ml = 0.2ug/L Hg
#M9875 10/12/10 AmA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 508) with 1part HNO3 (AB: 511)

#M9876 10/12/10 AmA — NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M9082(b)) and 60g Hydroxylamine Sulfate (#M9831) in 500mL Milli-Q H_2O. Exp. 04/12/11

#M9877 10/19/10 GtE — TCLP Extraction Fluid #1: Fill a 20L Carboy w/19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB-499) and 128.6mL 10N NaOH (#M9743). Dilute to 20L w/D.I. H_2O and mix. pH. 4.93 ± 0.05. (Exp. 10/19/11)

#M9878 10/19/10 AmA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9879 10/19/10 AmA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9880 10/19/10 AmA	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9879) into 100ml = 3.0ug/L Hg
#M9881 10/19/10 AmA	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9882 10/19/10 AmA	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9879) into 100ml = 0.2ug/L Hg
#M9883 10/19/10 AmA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 508) with 1part HNO3 (AB: 511)

#M9860 10/05/10 AMA Potassium Permanganate Soln: 50g Potassium Permanganate (#M8969) dissolved into 1000mL ~~Milli-Q~~ D.I H_2O. Exp. 04/05/11 10/05/10 AMA

#M9861 10/05/10 AMA ~~Make~~ NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M9083(6)) and 60g Hydroxylamine Sulfate (#M9831) in 500mL Milli-Q H_2O. Exp. 04/05/11 10/05/10 AMA

#M9862 10/06/10 CAE Stannous Chloride Reagent: Into a 1000 mL vol flask, dissolve 100g Stannous Chloride (#M9785a) in 70 mL HCL (AB-508). Bring up to volume with D.I. H_2O. Exp. 10-06-11

#M9863 10-11-10 A Potassium 10,000 mg/L Spex Certiprep Lot # ~~AE12-99K~~

#M9864 10-11-10 A Iron 10,000 mg/L ~~Spex Certiprep~~ Lot # PLFe2-3X

#M9865 10-11-10 A Calcium 10,000 mg/L Spex Certiprep Lot # PLCa2-3X

#M9866 10-11-10 A Aluminum 10,000mg/L Spex Certiprep Lot # AB12-227AL

#M9867 10-11-10 A Boron working Stds into 5, 200 ml Vol flasks & Silicon pipet from stds #M9628 & M9545

~~5% HNO3~~ A
~~5% HCL~~ 10-11-10
Bring up to mark with DI H_2O ex 6/11

10 ug/L → .002 mls M9628 + M9545
50 ug/L → ~~.01~~ .01 mls M9628 + M9545 10-11-10
200 ug/L → .04 mls M9628 + M9545
1000 ug/L → .2 mls M9628 + M9545
2000 ug/L → .4 mls M9628 + M9545
10,000 ug/L → 2.0 mls M9628 + M9545

Al, Fe, Mg, Ca ~~Mixed~~ — 500,000 mg/L use #M9817 500,000 mg/L Std.

#M9868 10-11-10 A 10-11-10 ~~5% HNO3~~ ex 1/11 Boron & Silicon ICV/LCSW into 200ml Vol flask pipet 2mls M9816 & .2mls M9448 Bring up to ~~10-11-10~~ mark with DI H_2O.

#M9869 10-11-10 A Boron & Silicon CCV into 200 ml Vol. flask pipet 0.1 mls M9545 & M9628. Bring up to mark with DI H_2O ex 6/11.

#M9848 09/28/10 Potassium Permanganate soln: 50g Potassium Permanganate (#M8969) dissolved into 1000mL D.I. H_2O. Exp. 03/29/11
AmA

#M9849 09/29/10 Stannous Chloride Reagent: Into a 1000mL vol. flask, dissolve 100g Stannous Chloride (#M9785a) in 70mL HCl (AB508). Bring up to mark with D.I. H_2O. Exp. 09/29/11
GVE

#M9850 9-30-10 ICSAB Into 500 ml vol flask pipet 50mls #M9807, 2.5mls of M9816 & M9815 Bring up to Mark with DI H_2O. ~~ex~~ 10/11.
2% HNO_3
5% HCl

#M9851 10/04/10 TCLP Extraction Fluid #1: Fill a 20L Carboy w/ 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB.499) and 128.6mL 10N NaOH (#M9743). Dilute to 20L with D.I. H_2O and mix. pH = 4.93 ± 0.05
GVE

#M9852 10/05/10 TCLP Extraction Fluid #1: Fill a 20L Carboy w/ 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB.499) and 128.6mL 10N NaOH (#M9743). Dilute to 20L with D.I. H_2O and mix. pH = 4.93 ± 0.05.
GVE

#M9853 10/05/10 Nickel Nitrate Matrix Modifier Solution Specpure Lot No. 03-16909J Expires Sept. 2011
GVE

#M9854 10/05/10 AmA	Hg Working Stds: (0.2% HNO_3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9855 10/05/10 AmA	Hg Alt Source Working Std: (0.2% HNO_3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9856 10/05/10 AmA	Hg ICV / LCSW (0.2% HNO_3, HCl)	3.0ml of 100ug/L Hg (#M9855) into 100ml = 3.0ug/L Hg
#M9857 10/05/10 AmA	Hg CCV (0.2% HNO_3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9858 10/05/10 AmA	Hg MRL: (0.2% HNO_3, HCl)	0.2ml of 100ug/L Hg (#M9855) into 100ml = 0.2ug/L Hg
#M9859 10/05/10 AmA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 508) with 1part HNO_3 (AB: 509)

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#M9834 09/21/10 LSF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9835 09/21/10 LSF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9836 09/21/10 LSF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 9835) into 100ml = 3.0ug/L Hg
#M9837 09/21/10 LSF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9838 09/21/10 LSF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 9835) into 100ml = 0.2ug/L Hg
#M9839 09/21/10 LSF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 503) with 1part HNO3 (AB: 505)

#M9840 9-23-10 ZL Environmental Express Yttrium 10,000ug/L. Lot# 1018805

#M9841 09/23/10 TCLP Extraction Fluid#1: Fill a 20L Carboy w/19L D.I. H2O. Add 114ml Glacial Acetic Acid (AB.468) and 128.6ml 10N NaOH (#M9636). Dilute to 20L w/D.I. H2O and mix. pH = 4.93 ± 0.05
LSF
Exp: 09/23/11

#M9842 09/28/10 AMA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9843 09/28/10 AMA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9844 09/28/10 AMA	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9843) into 100ml = 3.0ug/L Hg
#M9845 09/28/10 AMA	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9846 09/28/10 AMA	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9843) into 100ml = 0.2ug/L Hg
#M9847 09/28/10 AMA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 508) with 1part HNO3 (AB: 509)

#M9822 09/14/10 3051 Spilling Solution into a 500ml Vol. Flask pipet the following and bring
LSF (1% HNO_3) up to volume with D.I. H_2O.
(Exp: 06-15-11)
2.5ml of 1,000mg/L Ag (#M9608)
2.5ml of 1,000mg/L Cd (#M9620)
0.5ml of 1,000mg/L Sb (#M9610)

s #M9521 (Pb)(ex 4/11)

mls #M9374 (AL)(ex 1/11)

mls #M9374 (AL)(ex 1/11)

#M9823 09/14/10 Potassium Persulfate: 50g Potassium Persulfate (#M9010) dissolved
AmA into 1000ml D.I. H_2O. Exp. 03/14/11

100 mls #M9374 (AL)(ex 1/11)

#M9824 09/14/10 AmA	Hg Working Stds: (0.2% HNO_3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9825 09/14/10 AmA	Hg Alt Source Working Std: (0.2% HNO_3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9826 09/14/10 AmA	Hg ICV / LCSW (0.2% HNO_3, HCl)	3.0ml of 100ug/L Hg (#M9825) into 100ml = 3.0ug/L Hg
#M9827 09/14/10 AmA	Hg CCV (0.2% HNO_3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9828 09/14/10 AmA	Hg MRL: (0.2% HNO_3, HCl)	0.2ml of 100ug/L Hg (#M9825) into 100ml = 0.2ug/L Hg
#M9829 09/14/10 AmA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 503) with 1part HNO_3 (AB: 505)

#M9816,
l
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piper the following
th D.I. H_2O.

M9609)
19611)

using and bring up

#M9830 TCLP Soln #2 into 20 liter Carboy pipet 114 mls of Glacial
9-15-10 Acetic Acid. Bring upto 20 liters. ph=2.88
A #AB-499

et the following
h D.I. H_2O.

#M9831 09/16/10 Hydroxylamine Sulfate Fisher Scientific Lot No. 103492 500g
GBE

#M9832 09/21/10 Potassium Permanganate Soln: 50g Potassium permanganate (#M8969)
LSF dissolve into 1,000 mL D.I. H_2O.
Exp: 03/21/11

#M9833 09/21/10 NaCl Hydroxlamine Sulfate Reagent: Dissolve 60g NaCl (#M9082a) and 6.0g
LSF Hydroxylamine Sulfate (#M9249) in
Exp: 03/21/10 500ml Milli-Q H_2O.

#M9817 9-14-10 ~~JA~~
~~JA~~ Cont...

5000	50 mls #M9816 (ex 8/11) ~~5mls~~ 5mls M9620(Cd) 5mls M9334(Be) ex 4/11 ox 6-11
10,000	100 mls #M9816 (ex 8/11)
100k	10 mls of #M9522 (Cu) (ex 4/11) , 10 mls of #M9520 (Mn)(ex 4/11) , 10 mls of #M9519 (Cr)(ex 4/11), 10 mls #M9521 (Pb)(ex 4/11) 100 mls #M9276 (Zn)(ex 12/10) = 100,000 ug/L
100,000	10 mls of #M9218 (Mg) (ex 10/10) , 10 mls of #M9659 (Fe) (ex 06/11) ,10 mls of #M9373 (Ca)(ex 1/11),10 mls #M9374 (AL)(ex 1/11) into 1000 ml vol flask = 100,000 ug/l std
500,000	50 mls of #M9218 (Mg) (ex 10/10) , 50 mls of #M9659 (Fe) (ex 06/11) ,50 mls of #M9373 (Ca)(ex 1/11),50 mls #M9374 (AL)(ex 1/11) into 1000 ml vol flask = 500,000 ug/l std
1000k	100 mls of #M9218 (Mg) (ex 10/10) , 100 mls of #M9659 (Fe) (ex 6-11) ,100 mls of #M9373 (Ca)(ex 1/11),100 mls #M9374 (AL)(ex 1/11) into 1000 ml vol flask = 1,000,000 ug/l std Bring the 1000 ml volumetric up to mark with DI H2O

* ~~JA~~ 9-15-10

#M9818 Continuing calibration Verification.
~~JA~~ 9-14-10
5% HNO_3
5% HCL

Continuing Calibration Standard (CCV)

Into a one liter volmetric flask pipet 2.5 mls of # M9815 and #M9816, and 1 ml of M9373, #M9719, #M9374, and ~~#M9659~~ add more 0.5ml #M9659, 1ml M9815. Bring up to mark with DI H2O ex Jan 2011

#M9819 GFAA spiking Solution (9.5min.) (1% HNO_3) Into a 200ml Vol. Flask, pipet the following and bring up to volume with D.I. H_2O.
09/14/10 CSF (Exp: 06-15-11)
1.0mL of 1000mg/L As (#M9609)
0.2 ml of 1000mg/L Se (#M9611)

#M9820 ICP spiking Solution (7min) (1% HNO_3) Into a 200ml vol. Flask pipet the following and bring up to volume with D.I. H_2O.
09/14/10 CSF (Exp: 12-15-10)
4.0mL of 1000mg/L Cr (#M9273)
1mL of 10,000mg/L Pb (#M9521)
10mL of 1,000 mg/L V (#M9612)

#M9821 09/14/10 CSF ICP spiking solution (24min. hold) (1% HNO_3) Into a 25ml Vol. Flask pipet the following and bring up to volume with D.I. H_2O.
(Exp: 12-15-10)
0.5mL of 1,000mg/L Be (#M9334)
10.mL of 10,000mg/L Cu (#M9522)
5.0mL of 1,000 mg/L Ni (#M9274)
10.0mL of 10,000 mg/L Zn (#M9718)

#M9809 ICV/LCSW Na, K, ert to 500mL vol flask pipet 50mL #M9616e1 + 50 mL M9616e0. Bring up to mark with DI H_2O. ex 6/30/11
9-7-10 JA

#M9810 GLE Stannous Chloride Reagent: Into a 1000 mL vol. flask, dissolve 100g Stannous Chloride (#M9785a) in 70 mL HCL (AB:503). Bring up to mark with D.I. H_2O. Exp. 09/08/11
09/08/10

#M9811 GLE GFAA Base Std (25µg/L) 1% HNO_3 Pipet 25mL of #M9482 into a 1L Vol. flask and bring up to volume with Mi.li.Q H_2O. Exp. 04-01-11
09/09/10

#M9812 GLE GFAA Alt. Source Std (10µg/L) 1% HNO_3 Pipet 50mL of #M9483 into a 1L Vol flask and bring up to volume with Mi.li.Q H_2O. Exp. 04-01-11
09/09/10

#M9813 GLE GFAA CCV Std. (10µg/L) 1% HNO_3 Pipet 10 mL of #M9482 into a 1L Vol. flask and bring up to volume with Mi.li.Q H_2O, Exp. 04-01-11
09/09/10

#M9814 GLE Potassium Persulfate Fisher Scientific Lot No. 095982 500g
09/09/10

#M9815 JA Custom Assurance Standard Ag, Be, Cd 100 µg/L Lot # 25-77JB ex August 30, 2011. (Spex Certiprep)
9-13-10 JA 9-14-10

#M9816 JA Custom Assurance Std Al, As, B, Ba, Ca, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, Ti, Tl, V, Zn 100mg/L Lot #25-76JB ex August 30, 2011. (Spex Certiprep)
9-14-10

#M9817 ICAP Working Standards
9-14-10 5% HNO_3 5%HCL

Standard name	Pipet the following respectively:
0.25	0.25 mls of standard 100 ug/L into 1000 ml volumetric flask = 0.25 ug/L std
0.5	0.50 mls of standard 100 ug/L into 1000ml volumentric flask= 0.50 ug/L std
1	1.0 mls of standard 100ug/L into 1000 ml volumentrc flask =1.00 ug/L std
5	5.0 mls of standard 100ug/L into 1000 ml volumentrc flask =5.00 ug/L std
10	10.0 mls of standard 100ug/L into 1000 ml volumentrc flask =10.0 ug/L std
20	20.0 mls of standard 100ug/L into 1000 ml volumentrc flask =20.0 ug/L std
50	50.0 mls of standard 100ug/L into 1000 ml volumentrc flask =50.0 ug/L std
100	1.0 mls of #M9815(ex 8/11) and 1.0 mls of #M9816 (ex 8/11) into 1000 ml volumectric flask= 100 ug/L std
500	5.0 mls of #M9815(ex 8/11) and 5.0 mls of #M9816 (ex 8/11) into 1000 ml volumetric flask= 500 ug/L std
1000	10.0 mls of #M9815(ex 8/11) and 10.0 mls of #M9816 (ex 8/11) into 1000 ml volumetric flask= 1000 ug/L std

#M9817 cont...

#M9796 08/24/10 AMA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9797 08/24/10 AMA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9798 08/24/10 AMA	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9797) into 100ml = 3.0ug/L Hg
#M9799 08/24/10 AMA	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9800 08/24/10 AMA	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9797) into 100ml = 0.2ug/L Hg
#M9801 08/24/10 AMA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 503) with 1part HNO3 (AB: 505)

#M9802 08/31/10 Nacl Hydroxylamine Sulfate Reagent - Dissolve 40g NaCl (#M9082(b)) and 40g Hydroxylamine Sulfate (#M9249) in 500mL Milli-Q H_2O. Exp. 02/31/11
AMA

#M9803 09/07/10 GLE	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9804 09/07/10 GLE	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9805 09/07/10 GLE	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9804) into 100ml = 3.0ug/L Hg
#M9806 09/07/10 GLE	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9807 09/07/10 GLE	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9804) into 100ml = 0.2ug/L Hg
#M9808 09/07/10 GLE	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 503) with 1part HNO3 (AB: 505)

#M9785 08/20/10 Tin(II) Chloride Dihydrate Fisher Lot No. 096665
GE

#M9786 08/20/10 Spike Sample Standard 1 Spex CertiPrep Lot No. 41-10AS
GE Exp. 08-15-11

#M9787 08/21/10 TCLP Extraction Fluid #1: Fill a 20L carboy with 19L D.I. H_2O. Add 114 mL
AmA Glacial Acetic Acid (AB: ~~499~~ 499 08/21/10 AmA) and 128.6 mL
10N NaOH (# ~~M9736~~ M9744 08/21/10 AmA). Dilute to 20L with D.I. H_2O
and mix. The pH = 4.93 ± 0.05. Exp. 08/21/11

#M9788 08/23/10 Potassium Permanganate Sol'n: 50g Potassium Permanganate (#M8969)
GE dissolved into 1000 mL D.I. H_2O.
Exp. 02/23/11 08/23/10 GE

#M9789 08/23/10 GE	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9790 08/23/10 GE	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9791 08/23/10 GE	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 9790) into 100ml = 3.0ug/L Hg
#M9792 08/23/10 GE	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9793 08/23/10 GE	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 9790) into 100ml = 0.2ug/L Hg
#M9794 08/23/10 GE	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 503) with 1part HNO3 (AB: 504)

#M9795 08/24/10 Stannous Chloride Reagent: Into a 1000 mL Vol. flask, dissolve 100g
GE Stannous Chloride (#M9405d) in 70 mL
HCL (AB: 503). Bring up to mark with
D.I. H_2O. Exp. 08/24/11.

#M9796 08/31/10 TCLP Extraction Fluid #1: Fill a 20L carboy w 19L D.I. H_2O. Add 114mL Glacial
1SF Exp: 08/31/11 Acetic Acid (AB. 499) and 128.6mL 10N NaOH (#M9745). Dilute
to 20L with D.I. H_2O and mix. pH: 4.93 ± 0.05. 08/31/10 1SF

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#M9780

~~#M9779~~ 8-18-10-A

2 8/18/10 LOQ QSM 3050

5% HNO_3 List 2

5% HCl

3050 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	4	M9278	1000	0.2
Sn	3.2	M9279	1000	0.16
Sr	1.52	M9300	1000	0.076
Ti	4.8	M9277	1000	0.24
W	28	M9275	1000	1.4

Expires 12/15/2010

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

#M9781 08/19/10 GFAA LOD Soil Working Std.: Into a partially filled 100 mL vol. flask of D.I. H_2O, pipet the following amounts and then bring up to volume with D.I. H_2O. Expires 01-15-11.
GVE (1% HNO_3)
0.03mL Ag 1,000 mg/L (#M9608) = 300 µg/L Ag
0.8mL As 1,000 mg/L (#M9609) = 8000 µg/L As
0.02mL Pb 10,000 mg/L (#M9521) = 2000 µg/L Pb
0.25mL Tl 1,000 mg/L (#M9333) = 2500 µg/L Tl
0.8mL Se 1,000 mg/L (#M9611) = 8000 µg/L Se
0.3mL Sb 1,000 mg/L (#M9610) = 3000 µg/L Sb

#M9782 08/19/10 GFAA LOD Soil Spike Solution: Into a partially filled 100 mL vol. flask of D.I. H_2O, pipet 1.0mL of #M9781 and then bring up to volume with D.I. H_2O. Expires 01-15-11
GVE (1% HNO_3)

#M9783 08/19/10 GFAA LOQ Soil Working Std.: Into a 100 mL vol. flask, partially filled with D.I. H_2O, pipet the following amounts and then bring up to volume with D.I. H_2O.
GVE (1% HNO_3)
0.205mL Ag 1000 mg/L (#M9608) = 2,050 µg/L Ag
2.7mL As 1000 mg/L (#M9609) = 27,000 µg/L As
0.065mL Pb 10000 mg/L (#M9521) = 6500 µg/L Pb
0.8mL Tl 1000 mg/L (#M9333) = 8000 µg/L Tl
2.6mL Se 1000 mg/L (#M9611) = 26,000 µg/L Se
0.95mL Sb 1000 mg/L (#M9610) = 9500 µg/L Sb

#M9784 08/19/10 GFAA LOQ Soil Spike Solution: Into a 100 mL vol. flask, partially filled with D.I. H_2O, pipet ~~1.0mL~~ 08/19/10 GVE 1.0mL of #M9783 and then bring up to volume with D.I. H_2O. Expires 01-15-11
GVE (1% HNO_3)

M9776 8-18-10 A
3050 LOD QSM B, Si
5% HNO3, 5% ~~HNO3~~ HCL
CL

3050 LOD Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
B	18	M9628	1000	0.9
Si	16	M9545	1000	0.8

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

M9777 8-18-10 A
3010 LOD QSM
List 2
5% HNO3, 5% ~~HNO3~~ HCL
A 8-18-10

3010 LOD Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	0.5	M9278	1000	0.025
Sn	0.9	M9279	1000	0.045
Sr	1	M9300	1000	0.05
Ti	0.5	M9277	1000	0.025
W	4	M9275	1000	0.2

Expires 12/15/2010

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

M9778 8-18-10 A
3010 LOQ QSM
List 2
5% HNO3, 5% HCL

3010 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	4.2	M9278	1000	0.21
Sn	6.2	M9279	1000	0.31
Sr	3	M9300	1000	0.15
Ti	1.8	M9277	1000	0.09
W	28	M9275	1000	1.4

Expires 12/15/2010

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

M9779 8-18-10 A
3050 LOD QSM
List 2
5% HNO3, 5% HCL

3050 LOD Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	1	M9278	1000	0.05
Sn	1	M9279	1000	0.05
Sr	0.24	M9300	1000	0.012
Ti	0.8	M9277	1000	0.04
W	4	M9275	1000	0.2

Expires 12/15/2010

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

#M9772 8-18-10
LOD QSM 3050
5% HNO3
5% HCl

3050 LOD Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	0.68	M9608	1000	0.034
Al	1.6	M9374	**10000**	0.008
Ba	0.32	M9518	1000	0.016
Be	0.16	M9334	1000	0.008
Cd	0.24	M9620	1000	0.012
Co	0.6	M9299	1000	0.03
Cr	0.76	M9273	1000	0.038
Cu	2.4	M9522	**10000**	0.012
Mg	4.8	M9719	**10000**	0.024
Mn	0.8	M9520	**10000**	0.004
Mo	0.56	M9302	1000	0.028
Ni	0.72	M9274	1000	0.036
Pb	1.6	M9521	**10000**	0.008
Sb	3.2	M9610	1000	0.16
V	0.44	M9612	1000	0.022
Zn	1.6	M9276	1000	0.08
K	440	M9222	**10000**	2.2
Na	160	M9280	**10000**	0.8
As	5.2	M9609	1000	0.26
Ca	6	M9373	**10000**	0.03
Fe	12	M9659	**10000**	0.06
Se	2.8	M9611	1000	0.14
Tl	1.6	M9333	1000	0.08

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

EXPIRES 12/15/2010

#M9773 8-18-10
LOD 3010 B, Si
QSM 5A
5% HNO3, HCl

3010 LOD Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
B	10	M9628	1000	0.5
Si	36	M9545	**1000**	1.8

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

M9774 8-18-10A
LOQ 3010 B, Si QSM
5% HNO3, 5% HCl

3010 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
B	18	M9628	1000	0.9
Si	118	M9545	**1000**	5.9

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

#M9775 8-18-10A
LOQ 3050 B, Si QSM
5% HNO3, 5% HCl

3050 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
B	26	M9628	1000	1.3
Si	56	M9545	**1000**	2.8

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

M9770 8-18-10 JA

LOQ QSM Spiking Soln. 3010
5% HCl, 5% HNO3

3010 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	2	M9608	1000	0.1
Al	26	M9374	**10000**	0.13
Ba	1.8	M9518	1000	0.09
Be	0.86	M9334	1000	0.043
Cd	0.4	M9620	1000	0.02
Co	4.3	M9299	1000	0.215
Cr	2	M9273	1000	0.1
Cu	3.8	M9522	**10000**	0.019
Mg	11	M9719	**10000**	0.055
Mn	2	M9520	**10000**	0.01
Mo	1.2	M9302	1000	0.06
Ni	4.2	M9274	1000	0.21
Pb	4.9	M9521	**10000**	0.0245
Sb	16	M9610	1000	0.8
V	1.7	M9612	1000	0.085
Zn	5.9	M9276	1000	0.295
K	900	M9222	**10000**	4.5
Na	340	M9280	**10000**	1.7
As	13	M9609	1000	0.65
Ca	100	M9373	**10000**	0.5
Fe	29	M9659	**10000**	0.145
Se	14	M9611	1000	0.7
Tl	5	M9333	1000	0.25

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

EXPIRES 12/15/2010

M9771 8-18-10 JA

LOQ QSM 3050
5% HNO3
5% HCl

3050 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	2.24	M9608	1000	0.112
Al	4.8	M9374	**10000**	0.024
Ba	1.08	M9518	1000	0.054
Be	0.48	M9334	1000	0.024
Cd	0.84	M9620	1000	0.042
Co	1.96	M9299	1000	0.098
Cr	2.52	M9273	1000	0.126
Cu	8	M9522	**10000**	0.04
Mg	16	M9719	**10000**	0.08
Mn	2	M9520	**10000**	0.01
Mo	1.92	M9302	1000	0.096
Ni	2.44	M9274	1000	0.122
Pb	5.6	M9521	**10000**	0.028
Sb	10.8	M9610	1000	0.54
V	1.36	M9612	1000	0.068
Zn	4.8	M9276	1000	0.24
K	1440	M9222	**10000**	7.2
Na	520	M9280	**10000**	2.6
As	18	M9609	1000	0.9
Ca	20	M9373	**10000**	0.1
Fe	40	M9659	**10000**	0.2
Se	16.8	M9611	1000	0.84
Tl	5.6	M9333	1000	0.28

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

EXPIRES 12/15/2010

#M9765 08/17/10 GFAA LOD Working Std. Into a 100 mL vol. flask, partially filled with
GE (1%) HNO_3) D.I. H_2O, pipet the following amounts and
Expires: 01-15-11 then bring up to volume with D.I. H_2O.
0.3 mL As 1,000 mg/L (#M9609) = 3000 µg/L As
0.45 mL Sb 1,000 mg/L (#M9610) = 4500 µg/L Sb
0.40 mL Tl 1,000 mg/L (#M9333) = 4000 µg/L Tl
0.80 mL Se 1,000 mg/L (#M9611) = 8000 µg/L Se
0.02 mL Pb 10,000 mg/L (#M9521) = 2000 µg/L Pb
0.04 mL Ag 1,000 mg/L (#M9608) = 400 µg/L Ag

#M9766 08/17/10 GFAA LOD Water Spike Solution Pipet 1.0 mL of #M9765 into a 100 mL vol.
GE (1% HNO_3) flask and then bring up to volume with
D.I. H_2O. Exp. 01-15-11

#M9767 08/17/10 GFAA LOQ Working Std. Into a 100 mL vol. flask, partially filled with D.I.
GE (1% HNO_3) H_2O, pipet the following amounts and then bring
Expires: 01-15-11 up to volume with D.I. H_2O.
0.9 mL As 1000 mg/L (#M9609) = 9000 µg/L As
1.55 mL Sb 1000 mg/L (#M9610) = 15,500 µg/L Sb
0.8 mL Tl 1000 mg/L (#M9333) = 8,000 µg/L Tl
2.6 mL Se 1000 mg/L (#M9611) = 26,000 µg/L Se
0.065 mL Pb 10,000 mg/L (#9521) = 6,500 µg/L Pb
0.13 mL Ag 1,000 mg/L (#M9608) = 1300 µg/L Ag

#M9768 08/17/10 GFAA LOQ Water Spike Solution Pipet 1 mL of #M9767 into a 100 mL vol.
GE (1% HNO_3) flask and then bring up to volume with
D.I. H_2O. Exp. 01-15-11

#M9769 8-18-10
LOD QSM 3010
Spiking Std.
5% HNO_3
5% HCl

3010 LOD Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	1	M9608	1000	0.05
Al	4	M9374	10000	0.02
Ba	0.26	M9518	1000	0.013
Be	0.13	M9334	1000	0.0065
Cd	0.11	M9620	1000	0.0055
Co	1.3	M9299	1000	0.065
Cr	0.7	M9273	1000	0.035
Cu	1.2	M9522	10000	0.006
Mg	3	M9719	10000	0.015
Mn	0.7	M9520	10000	0.0035
Mo	0.4	M9302	1000	0.02
Ni	0.6	M9274	1000	0.03
Pb	1.5	M9521	10000	0.0075
Sb	4	M9610	1000	0.2
V	0.5	M9612	1000	0.025
Zn	1.8	M9276	1000	0.09
K	300	M9222	10000	1.5
Na	100	M9280	10000	0.5
As	4	M9609	1000	0.2
Ca	15	M9373	10000	0.075
Fe	9	M9659	10000	0.045
Se	2.3	M9611	1000	0.115
Tl	1.6	M9333	1000	0.08

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working | EXPIRES 12/15/2010

L Hg

#M9753 08/12/10 Custom Assurance Standard. Spex CertiPrep Lot No. 25-06JB
GAE 20,000 mg/L Ca, 10,000 mg/L Mg, Na Exp. 08-15-11

#M9754 08/13/10 AmA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9755 08/13/10 AmA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9756 08/13/10 AmA	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 9755) into 100ml = 3.0ug/L Hg
#M9757 08/13/10 AmA	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9758 08/13/10 AmA	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 9755) into 100ml = 0.2ug/L Hg
#M9759 08/13/10 AmA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 503) with 1part HNO3 (AB: 504)

g/L Hg

g/L Hg

'L Hg

g/L Hg

1part HNO3 (AB: 490)

to 200 mL DI Water

g: ~~5~~

int (mL) to t into 1 L
1
2
0.5
0.2
0.25
0.5
0.5
0.05
2.5
0.5
0.5
0.5
0.05
1
0.5
0.5
25
5
0.5
2.5
1.5
0.5
1
2.5
1
1
2.5
0.5

#M9760 08/13/10 GAE — Cr Spiking Solution (1% HNO_3)
Pipet 1.0mL of 10,000 mg/L Cr (#M9519) → 100 mL = 100,000 µg/L Cr
Pipet 1.0mL of 100,000 µg/L Cr → 1000mL = 100 µg/L Cr (Exp 04-30-11)

#M9761 08/13/10 GAE — Be Spiking Solution (1% HNO_3)
Pipet 1.0mL of 1000 mg/L Be (#M9334) → 100mL = 10,000 µg/L Be
Pipet 1.0mL of 10,000 µg/L Be → 200mL = 50 µg/L Be (Exp. 01-15-11)

#M9762 08/16/10 GAE — GFAA MDL Spike Solution: (1%) HNO_3)
Pipet 2mL of #M9472 → 100mL = 200 µg/L As, Se, Sb
Expires 04-01-11

#M9763 08/16/10 AmA — LOD ✓/LOQ ✓ Hg Spiking Solution (0.2% HNO_3, HCl) — 1.0mL of 1000mg/L Hg (#M9257) into 100mL = 10mg/L Hg
1.0mL of 10mg/L Hg into 100mL = 100µg/L Hg
10.0mL of 100µg/L Hg into 100mL = 10.0µg/L Hg

#M9764 08/17/10 AmA — Stannous chloride Reagent: Into a 1000mL vol. flask, dissolve 100g Stannous chloride (#M9405(d)) in 70mL HCL (AB-503)
Bring up to mark with D.I. H_2O. Exp. 08/17/11

160

M9745 08/06/10 LSF — Hg Working Stds: (0.2% HNO3, HCl)

1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

M9746 08/06/10 LSF — Hg Alt Source Working Std: (0.2% HNO3, HCl)

1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

M9747 08/06/10 LSF — Hg ICV / LCSW (0.2% HNO3, HCl)

3.0ml of 100ug/L Hg (#M9746) into 100ml = 3.0ug/L Hg

9748 08/06/10 LSF — Hg CCV (0.2% HNO3, HCl)

1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

M9749 08/06/10 LSF — Hg MRL: (0.2% HNO3, HCl)

0.2ml of 100ug/L Hg (#M9746) into 100ml = 0.2ug/L Hg

19750 08/06/10 LSF — Hg Aqua Regia Reagent:

"Carefully" in hood, mix 3 parts HCl (AB: 489) with 1part HNO3 (AB: 490)

M9751 08/06/10 LSF — Potassium Persulfate

Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water

MRL Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following: *

Analyte	MRL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	20	M9608	1000	1
Al	400	M9374	**10000**	2
Ba	10	M9518	1000	0.5
Be	4	M9334	1000	0.2
Cd	5	M9620	1000	0.25
Co	10	M9299	1000	0.5
Cr	10	M9273	1000	0.5
Cu	10	M9522	**10000**	0.05
Mg	500	M9218	**10000**	2.5
Mn	10	M9332	1000	0.5
Mo	10	M9302	1000	0.5
Ni	10	M9274	1000	0.5
Pb	10	M9521	**10000**	0.05
Sb	20	M9610	1000	1
V	10	M9612	1000	0.5
Zn	10	M9276	1000	0.5
K	5000	M9222	**10000**	25
Na	1000	M9280	**10000**	5
As	10	M9609	1000	0.5
Ca	500	M9373	**10000**	2.5
Fe	300	M9659	**10000**	1.5
Se	10	M9611	1000	0.5
Tl	20	M9333	1000	1
Si	50	M9448	1000	2.5
B	20	M9628	1000	1
Li	20	M9278	1000	1
W	50	M9275	1000	2.5
Ti	10	M9277	1000	0.5
Sr	10	M9300	1000	0.5
Sn	10	M9279	1000	0.5

#M9752 AA MRL Icp. 8-9-10
5% HCL
5% HNO3

* of this Base Std pipet 10mls into 500 ml Vol flask to create a working std or 1ml into a 50ml digestion tube for a diggested WORKing std.

ex 12/10

#M9753 08/12/10 Cust... GEE 20,0

#M9754 08/13/10 AMA — Hg Working Stds (0.2% HNO3, HC

#M9755 08/13/10 AMA — Hg Alt Source W (0.2% HNO3, H

#M9756 08/13/10 AMA — Hg ICV / LCSW (0.2% HNO3, H

#M9757 08/13/10 AMA — Hg CCV (0.2% HNO3, H

#M9758 08/13/10 AMA — Hg MRL: (0.2% HNO3, H

#M9759 08/13/10 AMA — Hg Aqua Regia

#M9760 08/13/10 GEE — Cr Sp (1%

#M9761 08/13/10 GEE — Be Sp (1%

#M9762 08/16/10 GEE — GFAA (1%

#M9763 08/16/10 AMA — LOD V/LC (0.2% H

#M9764 08/17/10 AMA — Stanne

191 D.I. H2O.
(Acid (AB.468) and
Dilute to 20L
pH = 4.93 ± 0.05
07/26/10 SF

08/03/10 SF

#M9733 08/03/10 Potassium Permanganate soln: 50g Potassium Permanganate (#M8969) dissolved into 1000mL Milli-Q H2O
Exp: 02/03/11

#M9734 08/03/10 NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M9082a) and 60g Hydroxylamine Sulfate (#M9249) in 500mL Milli-Q H2O.
CSF
Exp: 02/03/10

#M9735 08/03/10 TCLP Extraction Fluid #1: Fill a 20L carboy w/ 19L D.I. H2O, Add 114mL Glacial Acetic Acid (AB-468) and 128.6mL 10N NaOH (#M9636) Dilute to 20L w/ D.I. H2O and mix. pH = 4.93 ± 0.05
CSF
Exp: 08/03/11

#M9736 08/03/10 AMA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9737 08/03/10 AMA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9738 08/03/10 AMA	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9737) into 100ml = 3.0ug/L Hg
#M9739 08/03/10 AMA	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9740 08/03/10 AMA	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9737) into 100ml = 0.2ug/L Hg
#M9741 08/03/10 AMA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 489) with 1part HNO3 (AB: 490)
#M9742 08/03/10 AMA	Potassium Persulfate	Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water

(AB: 490)
l Water
cd
35744
HCl (AB-496).
07/28/11
H2O. Add 114mL
and 128.6mL
0L w/ D.I. H2O and mix.

#M9743 08/04/10 10N NaOH: Into a 1L vol. flask add 400g NaOH (#W72703) and bring up to volume with D.I. H2O.
LSF
Exp: 08/04/11

#M9744 08/05/10 10N NaOH: Into a 1L vol. flask add 400g NaOH (#M9497) and bring up to volume with D.I. H2O.
LSF
Exp: 08/05/11

07/27/10 GvE

#M9722 07/26/10 LSF TCLp Extraction Fluid #1: Fill a 20L carboy w/ 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB: 468) and 128.6mL 10N NaOH (#M9636) Dilute to 20L w/ D.I. H_2O and mix. pH = 4.93 ± 0.05 07/26/10 LSF

Exp: 07/26/11

#M9722 07/27/10 AMA

Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg	
Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg	#9723 07/27/10 AMA
Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9723) into 100ml = 3.0ug/L Hg	#9724 07/27/10 AMA
Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg	#9725 07/27/10 AMA
Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9723) into 100ml = 0.2ug/L Hg	#9726 07/27/10 AMA
Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 489) with 1part HNO3 (AB: 490)	#9727 07/27/10 AMA
Potassium Persulfate	Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water	#9728 07/27/10 AMA

#M9729 07/27/10 AMA Potassium Persulfate: 50g Potassium Persulfate (#M9010) dissolved into 1000mL D.I. H_2O. Exp 01/27/11

#M9730 07/27/10 GvE Amco Clear Turbidity Standard 2.0 NTU Lot No. C035744 Expires 07/11

#M9731 07/28/10 AMA Stannous chloride Reagent: Into a 1000mL vol. flask, dissolve 100g stannous chloride (#M9405(c)) in 70mL HCl (AB: 496). Bring up to mark with D.I. H_2O. Exp. 07/28/11

M9732 07/29/10 LSF TCLp Extraction Fluid #1: Fill a 20L carboy w/ 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB: 468) and 128.6mL 10N NaOH (#M9636) Dilute to 20L w/ D.I. H_2O and mix. pH = 4.93 ± 0.05

Exp: 07/29/11

#M9733 08/03/10 LSF Exp:

#M9734 08/03/10 LSF NaCl

#M9735 08/03/10 LSF E

#M9736 08/03/10 AMA Hg Working S (0.2% HNO3,

#M9737 08/03/10 AMA Hg Alt Source (0.2% HNO3,

#M9738 08/03/10 AMA Hg ICV / LCS (0.2% HNO3

#M9739 08/03/10 AMA Hg CCV (0.2% HNO3

#M9740 08/03/10 AMA Hg MRL: (0.2% HNO3

#M9741 08/03/10 AMA Hg Aqua Reg

#M9742 08/03/10 AMA Potassium P

#M9743 08/04/10 LSF 10N Exp: 08/0

#M9744 08/05/10 LSF 10N Exp: 08/0

#M9712 07/19/10 NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M9082(6)) and
AMA 60g Hydroxylamine Sulfate (#M9249) in
500mL Milli-Q H_2O. Exp 01/19/11

D.I. H_2O. Add 114mL
468) and 188.6mL
to 20L w/D.I. H_2O

#M9713 07/21/10 Stannous chloride Reagent: Into a 1000mL vol. flask, dissolve 100g
AMA Stannous chloride (#M9405(a)) in 70mL HCl (AB-496).
Bring up to mark with D.I. H_2O. Exp 07/21/11

7-19-10
pipet into
bring up to mark

#M9714 07/21/10 Potassium Permanganate Soln: 50g Potassium Permanganate (#M8969)
AMA dissolved into 1000mL Milli-Q H_2O. Exp 01/21/11

#M9715 07/23/10 ICP MDL Spiking Soln: 1mL of 1000 mg/L Cr (#M9773) → 100mL = 10,000 µg/L Cr
GCE (1% HNO_3) 25mL of 10,000 mg/L Cr → 1000mL = 2.50 µg/L Cr
Exp. 12-15-10

+ 2.2mL of
f 10,000 mg/L Pb
Se (#M9611),
610), and 0.6mL
). Bring up to

#M9716
~~#M9715~~ 07/23/10 ICP ~~LOD~~ LOQ Spiking Soln: Into a 1L vol. flask, pipet the following: ~~into~~
07/23/10 GCE GCE (1% HNO_3) ~~a partially~~ 07/23/10 GCE
Exp. 04/30/11 0.0035mL of 10,000 mg/L Pb (#M9521) = 35 µg/L Pb
0.05mL of 1000 mg/L As (#M9609) = 50 µg/L As
Bring up to volume with D.I. H_2O.

t 10mL of
me with D.I.

07/23/10 GCE
#M9717 07/23/10 ICP LOQ Spiking Soln: Into a 1L Vol. flask, pipet the following:
GCE (1% HNO_3) 0.012mL of 10,000 mg/L Pb (#M9521) = 120 µg/L Pb
Exp. 04/30/10 0.25mL of 1,000 mg/L As (#M9609) = 2.50 µg/L As

#M9718 07/23/10 Zinc 10,000 mg/L Spex CertiPrep Lot No. AB12-68ZN
GCE Expires: 07/15/11

07/23/10 GCE
#M9719 07/23/10 Magnesium 10,000 mg/L Spex CertiPrep Lot No. AB12-64MG
GCE Expires: 07/15/11

07/23/10 GCE
#M9720 7-26-10

ICAP Working Standards
5% HNO3 5%HCL

Standard name	Pipet the following respectively:
0.25	0.25 mls of standard 100 ug/L into 1000 ml volumetric flask = 0.25 ug/L std
0.5	0.50 mls of standard 100 ug/L into 1000ml volumentric flask= 0.50 ug/L std
1	1.0 mls of standard 100ug/L into 1000 ml volumentrc flask =1.00 ug/L std
5	5.0 mls of standard 100ug/L into 1000 ml volumentrc flask =5.00 ug/L std
10	10.0 mls of standard 100ug/L into 1000 ml volumentrc flask =10.0 ug/L std
20	20.0 mls of standard 100ug/L into 1000 ml volumentrc flask =20.0 ug/L std
50	50.0 mls of standard 100ug/L into 1000 ml volumentrc flask =50.0 ug/L std
100	1.0 mls of #M9658(ex 6/11) and 1.0 mls of #M9188 (ex 9/10) into 1000 ml volumetric flask= 100 ug/L std
500	5.0 mls of #M9658(ex 6/11) and 5.0 mls of #M9188 (ex 9/10) into 1000 ml volumetric flask= 500 ug/L std
1000	10.0 mls of #M9658(ex 6/11) and 10.0 mls of #M9188 (ex 9/10) into 1000 ml volumetric flask= 1000 ug/L std
10,000	10.0 mls of #M9658(ex 6/11), 1.0 mls of #M9518 Ba (ex 4/11) 1.0 mls #M9628 B (ex 6/11), 0.10 mls #M9374 Al (ex 1/11) into 1000 ml volumtric flask= 10000 ug/L std
100k	10 mls of #M9522 (Cu) (ex 4/11), 10 mls of #M9520 (Mn)(ex 4/11), 10 mls of #M9519 (Cr)(ex 4/11), 10 mls #M9717 (Zn)(ex 7/11), 10 mls #M9521 (Pb)(ex 4/11) into 1000 ml vol flask = 100K ug/l std
100,000	10 mls of #M9718 (Mg) (ex 7/11), 10 mls of #M9659 (Fe) (ex 6/11), 10 mls of #M9373 (Ca)(ex 1/11), 10 mls #M9374 (AL)(ex 1/11) into 1000 ml vol flask = 100,000 ug/l std
500,000	50 mls of #M9718 (Mg) (ex 7/11), 50 mls of #M9659 (Fe) (ex 6/11), 50 mls of #M9373 (Ca)(ex 1/11), 50 mls #M9374 (AL)(ex 1/11) into 1000 ml vol flask = 500,000 ug/l std
1000k	100 mls of #M9718 (Mg) (ex 7/11), 100 mls of #M9659 (Fe) (ex 6/11), 100 mls of #M9373 (Ca)(ex 1/11), 100 mls #M9374 (AL)(ex 1/11) into 1000 ml vol flask = 1000K ug/l std

Bring 1000 ml volumetrics up to mark with DI H2O

ex 9/11

AB: 490)

Water

#M9701 07/19/10 CSF — TCLP Extraction Fluid #1: Fill a 20L carboy w/ 11.9L D.I. H2O. Add 114mL Glacial Acetic Acid (CAB. 468) and 128.6mL 10N NaOH (#M9636). Dilute to 20L w/ D.I. H2O and mix. pH = 4.93 ± 0.05
Exp. 07/19/11

#M9702 7-19-10 — ICV, (NaK) LCSW — 50mL of #M9616O & #M9616I onto 500mL vol flask pipet ~~onto~~ 7-19-10 Bring up to mark with DI H2O. ox 6/30/2011.
2% 5% HNO3
5% HCl

#M9703 07/19/10 GE/AA — GFAA Stability Working Standard: Into a 1L Vol. flask, pipet 2.2mL of 1000mg/L As (#M9609), 0.18mL of 10,000mg/L Pb (#M9621), 4.4mL of 1,000mg/L Se (#M9611), 1.2mL of 1,000mg/L Sb (#M9610), and 0.6mL of 1000mg/L Tl (#M9333). Bring up to volume with D.I. H2O.
GE
(1% HNO3)
Exp. 01-15-11

#M9704 07/19/10 GE — GFAA Instrument Stability Standard: Into a 1L vol. flask, pipet 10mL of #M9703 and bring up to volume with D.I. H2O.
(1% HNO3)
Exp. 01-15-11

M9705 07/19/10 AMA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
M9706 07/19/10 AMA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
M9707 07/19/10 AMA	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9706) into 100ml = 3.0ug/L Hg
M9708 07/19/10 AMA	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
M9709 07/19/10 AMA	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9706) into 100ml = 0.2ug/L Hg
M9710 07/19/10 AMA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 489) with 1part HNO3 (AB: 490)
M9711 07/19/10 AMA	Potassium Persulfate	Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water

#M9712 07/19/10 NaCl AMA

#M9713 07/21/10 Stanno AMA

#M9714 07/21/10 Potass AMA

#M9715 07/23/10 ICP M GE (1% Exp.

#M9716 ~~#M9716~~ 07/23/10 ICP GE (1% Exp

#M9717 07/23/10 ICP GE (1% Exp

#M9718 07/23/10 Z GE E

#M9719 07/23/10 M GE E

#M9720 7-26-10

ICAP Working Standards
5% HNO3 5%HCL

Standard name	Pipet the f
	0.25
	0.5
	1
	5
	10
	20
	50
	100
	500
	1000
	10,000
	100k
	100,000
	500,000
	1000k

'0 mls. M9534, 20 mls #M9689 LSF 07/13/10
ing cup to mark w/
= H_2O.

D.I. H_2O. Add 114 mL
B.468) and 128.6 mL
to 20L w/D.I. H_2O #M9690 LSF 07/13/10

Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9690) into 100ml = 3.0ug/L Hg
Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9690) into 100ml = 0.2ug/L Hg
Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 489) with 1part HNO3 (AB: 490)
Potassium Persulfate	Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water

#M9693 LSF 07/13/10
#M9694 LSF 07/13/10
#M9695 LSF 07/13/10

#M9696 LSF 07/14/10 TCLP Extraction Fluid #1: Fill a 20L carboy w/ 19L D.I. H_2O. Add 114 mL Glacial Acetic Acid (AB. 499) and 128.6mL 10N NaOH (#M9636). Dilute to 20L w/ D.I. H_2O and mix. pH = 4.93 ± 0.05
Exp: 07/14/11

3: 490)
ater

#M9697 AMA 07/14/10 Stannous chloride Reagent: into a 1000mL vol. flask, dissolve 10g stannous chloride (#M9405(a)) in 70mL HCl (AB·496). Bring up to mark with D.I. H_2O. Exp 07/14/11

ıdate
.2 Milli-Q H_2O.

#M9698 7-19-10 ICSAB NAK into 250 ml vol flask Pipet 25mls #M9607
5% HNO_3 7-19-10 7.5mls of M9659, 25mls of M9660 + M9661. Bring up to
5% HNO_3 Mark with DI H_2O. ex June 15, 2011

#M9699 CCV (Dodecal) Into 1 Liter vol flask Pipet 10mls M9455
5% HCl 7-19-10 1mls of M9373, M9218, M9374 & 0.5mls M9659.
5% HNO_3 Bring up to mark with DI H_2O. ex 10/15/10.

#M9700. ICV/LCSW (Dodecal Icp) Onto 1 liter Vol flask pipet 10 mls #M9530,
5% HCl 7.19.10 2.0 mls #M9607, 0.5mls M9628 & 0.5mls #M9302
5% HNO_3 Bring up to mark with DI H_2O. ex Dec 2010.

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#M9679 ICV Icp Onto 1000 ml vol flask pipet 10 mls M9534, 20 mls M9607, 0.5 mls M9140 & 0.5 mls M9302. Bring up to mark w. 0.07 mls. M9608. DI H_2O.
7-1-10 JH

#M9680 07/06/10 TCLP Extraction Fluid #1: Fill a 20L carboy w/ 19L D.I. H_2O. Add 114 mL Glacial Acetic Acid (AB: 468) and 128.6 mL 10N NaOH (#M9636). Dilute to 20L w/ D.I. H_2O and mix. pH = 4.93 ± 0.05
LSF
Exp. 07/06/11

#M9681 AMA 07/06/10	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9682 AMA 07/06/10	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9683 AMA 07/06/10	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9682) into 100ml = 3.0ug/L Hg
#M9684 AMA 07/06/10	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9685 AMA 07/06/10	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9682) into 100ml = 0.2ug/L Hg
#M9686 AMA 07/06/10	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 489) with 1part HNO3 (AB: 490)
#M9687 AMA 07/06/10	Potassium Persulfate	Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water

#M9688 LSF 07/13/10 Potassium Permanganate soln: 50g Potassium Permanganate (#M8969) dissolved into 1000mL Milli-Q H_2O.

Exp: 01/13/11

#M9668 GLE 06/29/10 — GFAA Base Std (25µg/L) (18% HNO_3, 6% HCL) Exp. 04/01/11 — Pipet 5.0mL of #M9482 into a 200mL vol. flask. Bring up to volume with D.I. H_2O.

2).

#M9669 GLE 06/29/10 — GFAA CCV (10µg/L) (18% HNO_3, 6% HCL) Exp. 04/01/11 — Pipet 2.0mL of #M9482 into a 200mL vol. flask. Bring up to volume with D.I. H_2O.

#M9670 GLE 06/29/10 — GFAA Alt. Source (10µg/L) (18% HNO_3, 6% HCL) Exp. 04/01/11 — Pipet 10.0mL of #M9483 into a 200mL vol. flask. Bring up to volume with D.I. H_2O.

#M9671 GLE 06/29/10 — GFAA Base Std (25µg/L) (20% HNO_3) Exp. 04/01/11 — Pipet 5.0mL of #M9482 into a 200mL vol. flask. Bring up to volume with D.I. H_2O.

#M9672 GLE 06/29/10 — GFAA CCV (10µg/L) (20% HNO_3) Exp. 04/01/11 — Pipet 2.0mL of #M9482 into a 200mL vol. flask. Bring up to volume with D.I. H_2O.

#M9673 GLE 06/29/10 — GFAA Alt. Source (10µg/L) (20% HNO_3) Exp. 04/01/11 — Pipet 10.0mL of #M9483 into a 200mL vol flask. Bring up to volume with D.I. H_2O.

#M9674 GLE 06/29/10 — GFAA Base Std. (100µg/L) (20% HNO_3) Exp. 04/01/11 — Pipet 10.0mL of #M9482 into a 100mL vol. flask. Bring up to volume with D.I. H_2O.

#M9675 GLE 06/29/10 — GFAA CCV (50µg/L) (20% HNO_3) Exp. 04/01/11 — Pipet 5.0mL of #M9482 into a 100mL vol. flask. Bring up to volume with D.I. H_2O.

#M9676 GLE 06/29/10 — GFAA Alt. Source (50µg/L) (20% HNO_3) Exp. 04/01/11 — Pipet 25.0mL of #M9483 into a 100mL vol. flask. Bring up to volume with D.I. H_2O.

#M9677 AMA 07/01/10 — Tclp Extraction fluid #1: fill a 20L carboy with 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB-4608) and 128.6mL 10N NaOH (#M9636). Dilute to 20L with D.I. H_2O and mix. The pH = 4.93 ± 0.05. Exp. 07/01/11

#M9678 7-1-10 A — ICV ICP : into 1000ml Vol flask Pipet 10mls of #M9534 2.0mls #M9607 0.5mls #M8802 & 0.5mls #M9140 Bring up to mark with DI H_2O.

#M9665 AmA Stannous Chloride Reagent: Into a 1000mL Vol. flask, dissolve 100g
6/29/10 Stannous chloride (#M9129(a)) in 70mL HCl (AB-492)
Bring up to mark with D.I. H_2O. Exp 6/29/11

#M9666 A ICP Working Stds 4.5 min method.

6-29-10 ICAP Working Standards

18% HNO3 6%HCL

Standard name	Pipet the following respectively:
0.25	0.25 mls of standard 100 ug/L into 1000 ml volumetric flask = 0.25 ug/L std
0.5	0.50 mls of standard 100 ug/L into 1000ml volumentric flask= 0.50 ug/L std
1	1.0 mls of standard 100ug/L into 1000 ml volumentrc flask =1.00 ug/L std
5	5.0 mls of standard 100ug/L into 1000 ml volumentrc flask =5.00 ug/L std
10	10.0 mls of standard 100ug/L into 1000 ml volumentrc flask =10.0 ug/L std
20	20.0 mls of standard 100ug/L into 1000 ml volumentrc flask =20.0 ug/L std
50	50.0 mls of standard 100ug/L into 1000 ml volumentrc flask =50.0 ug/L std
100	1.0 mls of #M9298(ex 12-10) and 1.0 mls of #M9188 (ex 9/10) into 1000 ml volumectric flask= 100 ug/L std
500	5.0 mls of #M9298(ex 12/10) and 5.0 mls of #M9188 (ex 9/10) into 1000 ml volumetric flask= 500 ug/L std
1000	10.0 mls of #M9288(ex 12/10) and 10.0 mls of #M9188 (ex 9/10) into 1000 ml volumetric flask= 1000 ug/L std
10,000	10.0 mls of #M9298(ex 12/10), 10.0 mls of #M9188 (ex 9/10) into 1000 ml=10,000 ug/L std
100k	10 mls of #M9522 (Cu) (ex 4/11) , 10 mls of #M9520 (Mn)(ex 4/11) , 10 mls of #M9519 (Cr)(ex 4/11), 10 mls #M9521 (Pb)(ex 4/11) 100 mls #M9276 (Zn)(ex 12/10) = 100,000 ug/L
100,000	10 mls of #M9218 (Mg) (ex 10/10) , 10 mls of #M9659 (Fe) (ex 06/11) ,10 mls of #M9373 (Ca)(ex 1/11),10 mls #M9374 (AL)(ex 1/11) into 1000 ml vol flask = 100,000 ug/l std
500,000	50 mls of #M9218 (Mg) (ex 10/10) , 50 mls of #M9659 (Fe) (ex 06/11) ,50 mls of #M9373 (Ca)(ex 1/11),50 mls #M9374 (AL)(ex 1/11) into 1000 ml vol flask = 500,000 ug/l std
1000k	100 mls of #M9218 (Mg) (ex 10/10) , 100 mls of #M9659 (Fe) (ex 6-11) ,100 mls of #M9373 (Ca)(ex 1/11),100 mls #M9374 (AL)(ex 1/11) into 1000 ml vol flask = 1,000,000 ug/l std
	Bring the 1000 ml volumetric up to mark with DI H2O

#M9667 A

6-29-10 ICAP Working Standards 7+24 min

20% HNO3

Standard name	Pipet the following respectively:
0.25	0.25 mls of standard 100 ug/L into 1000 ml volumetric flask = 0.25 ug/L std
0.5	0.50 mls of standard 100 ug/L into 1000ml volumentric flask= 0.50 ug/L std
1	1.0 mls of standard 100ug/L into 1000 ml volumentrc flask =1.00 ug/L std
5	5.0 mls of standard 100ug/L into 1000 ml volumentrc flask =5.00 ug/L std
10	10.0 mls of standard 100ug/L into 1000 ml volumentrc flask =10.0 ug/L std
20	20.0 mls of standard 100ug/L into 1000 ml volumentrc flask =20.0 ug/L std
50	50.0 mls of standard 100ug/L into 1000 ml volumentrc flask =50.0 ug/L std
100	1.0 mls of #M9298(ex 12-10) and 1.0 mls of #M9188 (ex 9/10) into 1000 ml volumectric flask= 100 ug/L std
500	5.0 mls of #M9298(ex 12/10) and 5.0 mls of #M9188 (ex 9/10) into 1000 ml volumetric flask= 500 ug/L std
1000	10.0 mls of #M9288(ex 12/10) and 10.0 mls of #M9188 (ex 9/10) into 1000 ml volumetric flask= 1000 ug/L std
10,000	10.0 mls of #M9298(ex 12/10), 10.0 mls of #M9188 (ex 9/10) into 1000 ml=10,000 ug/L std
100k	10 mls of #M9522 (Cu) (ex 4/11) , 10 mls of #M9520 (Mn)(ex 4/11) , 10 mls of #M9519 (Cr)(ex 4/11), 10 mls #M9521 (Pb)(ex 4/11) 100 mls #M9276 (Zn)(ex 12/10) = 100,000 ug/L
100,000	10 mls of #M9218 (Mg) (ex 10/10) , 10 mls of #M9659 (Fe) (ex 06/11) ,10 mls of #M9373 (Ca)(ex 1/11),10 mls #M9374 (AL)(ex 1/11) into 1000 ml vol flask = 100,000 ug/l std
500,000	50 mls of #M9218 (Mg) (ex 10/10) , 50 mls of #M9659 (Fe) (ex 06/11) ,50 mls of #M9373 (Ca)(ex 1/11),50 mls #M9374 (AL)(ex 1/11) into 1000 ml vol flask = 500,000 ug/l std
1000k	100 mls of #M9218 (Mg) (ex 10/10) , 100 mls of #M9659 (Fe) (ex 6-11) ,100 mls of #M9373 (Ca)(ex 1/11),100 mls #M9374 (AL)(ex 1/11) into 1000 ml vol flask = 1,000,000 ug/l std
	Bring the 1000 ml volumetric up to mark with DI H2O

#M9662 7A
6-29-10

MRL Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MRL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	20	M9608	1000	1
Al	400	M9374	**10000**	2
Ba	10	M9518	1000	0.5
Be	4	M9334	1000	0.2
Cd	5	M9620	1000	0.25
Co	10	M9299	1000	0.5
Cr	10	M9273	1000	0.5
Cu	10	M9522	**10000**	0.05
Mg	500	M9218	**10000**	2.5
Mn	100	M9332	1000	0.5
Mo	10	M9302	1000	0.5
Ni	10	M9274	1000	0.5
Pb	10	M9521	**10000**	0.05
Sb	20	M9610	1000	1
V	10	M9612	1000	0.5
Zn	10	M9276	1000	0.5
K	5000	M9222	**10000**	25
Na	1000	M9280	**10000**	5
As	10	M9609	1000	0.5
Ca	500	M9373	**10000**	2.5
Fe	300	M9219	**10000**	1.5
Se	10	M9611	1000	0.5
Tl	20	M9333	1000	1
Si	50	M9448	1000	2.5
B	20	M9628	1000	1
Li	20	M9278	1000	1
W	50	M9275	1000	2.5
Ti	10	M9277	1000	0.5
Sr	10	M9300	1000	0.5
Sn	10	M9279	1000	0.5

#M9662 7A 6-29-10

ex Dec 2010

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

#M9663 7A
MRL 6-29-10 Into 500 ml volumetric pipet 10mls of #M9662. Bring up to mark with DI H_2O. ex Dec 2010.

#M9664-7A 6-29-10 MRL Ca, Fe, Mg, Al, Mn into 500 ml vol flask pipet 1ml of #M9662. Bring up to mark with DI H_2O ex Dec 2010.

#M9648 6/24/10 AMA — 3050 ICP MDL Spiking Solution: Into a 1L vol. flask, pipet the following (1% HNO_3, HCl) and bring up to volume with D.I. H_2O.
Exp. 4/30/11
1mL AS 1000mg/L (#M9609)
0.025mL Pb 10,000mg/L (#M9521)

#M9649 6-28-10 A 5% HCl 5% HNO_3 — Continuing Calibration Verification (CCV) into 1 Liter volumetric flask prep'd 10 mls #M9455, 1ml M9218, M9373, M9374 & 0.5mls M9219. Bring up to mark with DI H_2O. ex 10/10.

#M9650 AMA 6/28/10	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9651 AMA 6/28/10	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9652 AMA 6/28/10	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9651) into 100ml = 3.0ug/L Hg
#M9653 AMA 6/28/10	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9654 AMA 6/28/10	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9651) into 100ml = 0.2ug/L Hg
#M9655 AMA 6/28/10	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 489) with 1part HNO3 (AB: 490)
#M9656 AMA 6/28/10	Potassium Persulfate	Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water

#M9657 AMA 6/28/10 — NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M9082(b)) and 60g Hydroxylamine Sulfate (#M9249) in 500mL Milli-Q H_2O. Exp 12/28/10

#M9658 A 6-29-10 — Quality Control Std #21 Spex Certiprep lot# 19-50JB. exp 6/30/11.

#M9659 A 6-29-10 — Fe 10,000mg/L Spex Certiprep lot # AB12-31FE.

M9660 A 6-29-10 — 1000 mg/L Potassium Spex Certiprep lot # 16-26K. ex 6/30/11.

#M9661 6-29-10 — 1000 mg/L Cadmium Spex Certiprep lot # 15-97Cd ex 6/30/11 #M9525

6/11 #M9637 AMA 6/21/10 — Potassium Permanganate soln: 50g Potassium Permanganate (#M8969) dissolved into 1000mL Milli-Q H_2O. Exp. 12/21/10

1ml #M9638 AMA 6/21/10	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
3188 #M9639 AMA 6/21/10	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9640 AMA 6/21/10	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9639) into 100ml = 3.0ug/L Hg
#M9641 AMA 6/21/10	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9642 AMA 6/21/10	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9639) into 100ml = 0.2ug/L Hg
#M9643 AMA 6/21/10	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 489) with 1part HNO3 (AB: 490)
#M9644 AMA 6/21/10	Potassium Persulfate	Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water

#M9645 GLE 06/23/10 — Tungsten Working Standards: Into (5) 1L Vol. flasks pipet:
Expires: 10/10
1 µg/L = 0.001 mL of #M9105
10 µg/L = 0.01 mL of #M9105
100 µg/L = 0.1 mL of #M9105
1,000 µg/L = 1.0 mL of #M9105
10,000 µg/L = 10 mL of #M9105
Bring up to mark with D.I. H_2O

#M9646 GLE 06/23/10 — W ICV/LCSW: Into a 1L Vol. flask, pipet the following:
Expires: 12-15-10
0.5mL of #M9275. Bring up to mark with D.I. H_2O.

4ml #M9647 GLE 06/23/10 — W CCV: Into a 1L Vol. flask, pipet the following
Expires: 10/10
0.5mL of #M9105. Bring up to mark with D.I. H_2O.

#M9628 6-14-10 Boron 1000mg/L Spex Certoprep Lot # 16-52B ex 6/11

#M9629 6-14-10 Boron & Silicon 1000µg/L ICV Into 1000 ml Vol flask pipet 1ml of #M9628 & M9545 bring up to mark with DI H_2O Dex 6/11.

#M9630 6-14-10 Boron & Si CCV Into 200ml Vol flask pipet 2mls #M9188 Bring up to mark with DI H_2 ex 9/10.

#M9631 6/17/10 LSF Potassium Persulfate: 50g Potassium persulfate (#M9010) dissolved into 1000ml D.I. H_2O. Exp: 12/17/10

#M9632 GLE 06/21/10 List 2 Standards (Working) 5:1 HNO_3, HCl Expires: 12-15-10

Into (5) 1 Liter Vol. Flasks pipet:

1 µg/L = 0.01mL #M9298 + 0.001mL M9275 + 0.01mL #M9279

10 µg/L = 0.1mL #M9298 + 0.01mL #M9275 + 0.01mL #M9279

100 µg/L = 1.0mL #M9298 + 0.10mL #M9275 + 0.10mL #M9279

1,000 µg/L = 10.0mL #M9298 + 1.0mL #M9275 + 1.0mL #M9279

10,000 µg/L = 100.0mL #M9298 + 10mL #M9275 + 10mL #M9279

Bring up to mark with D.I. H_2O.

#M9633 GLE 06/21/10 List 2 ICV/LCSW 5:1 HNO_3, HCl Expires: Oct. 2010

Into a 1L Vol. Flask, pipet the following

0.5mL of #M9281

0.5mL of #M9105

0.5mL of #M9278

0.5mL of #M9277

0.5mL of #M9300

Bring up to mark with D.I. H_2O

#M9634 GLE 06/21/10 List 2 CCV 5:1 HNO_3, HCl Expires: 12-15-10

Into a 1L Vol. Flask, pipet the following:

5mL of #M9298

0.5mL of #M9275

0.5mL of #M9279

Bring up to mark with D.I. H_2O.

#M9635 LSF 06/21/10 TCLP Extraction Fluid #1: Fill a 7oL carboy w/ 11.9L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB.4687) and 128.6mL 10N NaOH (#M9636). Dilute to 7oL w/ D.I. H_2O and mix. pH: 4.93 ± 0.05

Exp. 06/21/11

#M9636 LSF 06/21/10 10N NaOH: Into a 1L Vol. flask add 400g NaOH (#W22703) and bring up to volume with D.I. H_2O. Exp: 06/21/11

#M9613 06/08/10 LSF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9614 06/08/10 LSF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9615 06/08/10 LSF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 9614) into 100ml = 3.0ug/L Hg
#M9616 06/08/10 LSF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9617 06/08/10 LSF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9614) into 100ml = 0.2ug/L Hg
#M9618 06/08/10 LSF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 489) with 1part HNO3 (AB: 490)
#M9619 06/08/10 LSF	Potassium Persulfate	Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water

#M9620 06/11/10 Cadmium 1,000 mg/L Spex CertiPrep Lot No. 15-119CD Exp. 06-15-11
AMA

#M9621 06/14/10 LSF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9622 06/14/10 LSF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9623 06/14/10 LSF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M) into 100ml = 3.0ug/L Hg
#M9624 06/14/10 LSF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9625 06/14/10 LSF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M) into 100ml = 0.2ug/L Hg
#M9626 06/14/10 LSF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 489) with 1part HNO3 (AB: 490)
06/14/10 LSF #M9624 06/14/10 LSF	Potassium Persulfate	Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water

M9604 cont...

Sr	10	m9300	1000	0.5
Ti	10	m9277	1000	0.5
Li	20	m9278	1000	1
Sn	10	m9279	1000	0.5
B	10	m9140	1000	0.5
Si	30	m9448	1000	1.5

Bring up to mark with DI H_2O.

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

ex6-30-2010

#M9613 06/08/10 LSF

#M9614 06/08/10 LSF

#M9615 06/08/10 LSF

#M9616 06/08/10 LSF

#M9617 06/08

#M9618 06/08

#M9619 06/08

M9605 MRL working std into 500ml vol flask prod 6-1-10 10mls of #M9604 Bring up to mark with DI H_2O ex 6-30-10.

M9606 06/05/10 LSF TCLP Extraction Fluid #1: Fill a 20L carboy w/19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB.4682) and 128.6mL 1aN NaOH (#M9495). Dilute to 20L w/D.I. H_2O and mix. pH: 4.93 ± 0.05

Exp. 06/05/11

#M9607 06/07/10 GLE Interferents A Spex CertiPrep Lot No. 8-79GS Exp. 06-15-11
5,000 mg/L Al, Ca, Mg 2000 mg/L Fe

#M9608 06/07/10 GLE Silver 1,000 mg/L Spex CertiPrep Lot No. 15-162AG Exp. 06-15-11

#M9609 06/07/10 GLE Arsenic 1,000 mg/L Spex CertiPrep Lot No. 15-64AS Exp. 06-15-11

#M9610 06/07/10 GLE Antimony 1,000 mg/L Spex CertiPrep Lot No. 15-174SB Exp. 06-15-11

#M9611 06/07/10 GLE Selenium 1,000 mg/L Spex CertiPrep Lot No. 15-188SE Exp. 06-15-11

#M9612 06/07/10 GLE Vanadium 1,000 mg/L Spex CertiPrep Lot No. 16-11V Exp. 06-15-11

#M9598 06/04/10 SF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9599 06/04/10 SF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9600 06/02/10 SF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 9599) into 100ml = 3.0ug/L Hg
#M9601 06/02/10 SF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9602 06/02/10 SF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 9599) into 100ml = 0.2ug/L Hg
#M9603 06/02/10 SF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 489) with 1part HNO3 (AB: 490)
#M9604 06/02/10 SF	Potassium Persulfate	Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water

#M9605 Hg Spiking Solution: 1.0ml of 1000mg/L Hg (#M9257) ~~into~~ 06/02/10 SF
1.0ml of 10mg/L Hg into 100ml
1.0ml of 100ug/L Hg into 100ml

#M9604 ~~#~~ 6-1-10
~~6-2-10~~ 5% HNO3
5% HCL

MRL Std
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

a Class pipet

Analyte	MRL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	20	m9052	1000	1
Al	400	M9374	**10000**	2
Ba	10	M9518	1000	0.5
Be	4	M9334	1000	0.2
Cd	5	M9055	1000	0.25
Co	10	M9299	1000	0.5
Cr	10	M9273	1000	0.5
Cu	10	M9522	**10000**	0.05
Mg	500	M9218	**10000**	2.5
Mn	10	m9520	10000	0.05
Mo	10	M9302	1000	0.5
Ni	10	M9274	1000	0.5
Pb	10	M9521	**10000**	0.05
Sb	20	M9053	1000	1
V	10	M9056	1000	0.5
Zn	10	M9276	1000	0.5
K	5000	M9222	**10000**	25
Na	1000	M9280	**10000**	5
As	10	M9058	1000	0.5
Ca	500	M9373	**10000**	2.5
Fe	300	M9219	**10000**	1.5
Se	10	M9054	1000	0.5
Tl	20	M9333	1000	1

MRLM9604 cont...

#M9594 5/28/10
AmA
5% HNO_3
5% HCl

3010 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
B	18	M9140	1000	0.9
Si	118	M9448	1000	5.9

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Exp 8/30/10

#M9595 5/28/10
AmA
5% HNO_3
5% HCl

3010 LOD Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
B	10	M9140	1000	0.5
Si	36	M9448	1000	1.8

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Exp 8/30/10

#M9596 5/28/10
AmA
5% HNO_3
5% HCl

3010 LOD Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	0.5	M9278	1000	0.025
Sn	0.9	M9279	1000	0.045
Sr	1	M9300	1000	0.05
Ti	0.5	M9277	1000	0.025
W	4	M9275	1000	0.2

Exp 12/15/10

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

#M9597 5/28/10
AmA
5% HNO_3
5% HCl

3010 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	4.2	M9278	1000	0.21
Sn	6.2	M9279	1000	0.31
Sr	3	M9300	1000	0.15
Ti	1.8	M9277	1000	0.09
W	28	M9275	1000	1.4

Exp 12/15/10

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working

#M9591 05/27/10
GFE 1% HNO3

GFAA LOQ Soil Spiking Solution
Base SPIKE PREPARATION 50x

Exp. 06-30-10

Into a 1000 mL Volumetric Flask, pipet the following:

LOQ 05/10 GFE

Analyte	~~MDL~~ (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	0.42	M9052	1000	0.021
Sb	1.9	M9053	1000	0.095
Se	5.2	M9054	1000	0.26
Tl	1.6	M9333	1000	0.08
Pb	1.3	M9521	**10000**	0.0065
As	5.4	M9058	1000	0.27

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

#M9592 5/28/10
AMA 5% HNO_3
5% HCl

3050 LOD Spiking Soluion
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

LOD

Analyte	~~MDL~~ 5/28/10 AMA (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	1	M9278	1000	0.05
Sn	1	M9279	1000	0.05
Sr	0.24	M9300	1000	0.012
Ti	0.8	M9277	1000	0.04
W	4	M9275	1000	0.2

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Exp. 12/15/10

a 10mls

9455,
ring up

#M9593 5/28/10
AMA 5% HNO_3
5% HCl

3050 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

LOQ

Analyte	~~MDL~~ 5/28/10 AMA (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	4	M9278	1000	0.2
Sn	3.2	M9279	1000	0.16
Sr	1.52	M9300	1000	0.076
Ti	4.8	M9277	1000	0.24
W	28	M9275	1000	1.4

Exp 12/15/10

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

2 & 15mls
2010.

M9580 05/25/10 05/25/10 CSF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
M9581 05/25/10 CSF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
M9582 05/25/10 CSF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 9581) into 100ml = 3.0ug/L Hg
M9583 05/25/10 CSF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
M9584 05/25/10 CSF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M~~9581~~ 05/25/10 CSF 9581) into 100ml = 0.2ug/L Hg
M9585 05/25/10 CSF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 489) with 1part HNO3 (AB: 490)
M9586 05/25/10 CSF	Potassium Persulfate	Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water

#M9591 GAE 1

#M9592 AMA

#M9593 AMA

M9587 5-25-10 ICSA onto 500 ml vol flask pipet 500mls #M9212 & 10mls
2A 5% HNO3 #M9219 Bring up to mark with DI H_2O.
5% HCL.

M9588 5-26-10 CCV onto 1 Liter vol flask pipet 10mls #M9455,
2A 5% HNO3 1ml #M9374, #M9218 and #M9373, 0.5mls #M9219 Bring up
5% HCL to mark with DI H_2O. exp Oct 15, 2010.

M9589 5-23-10 ICSA onto 500 ml vol flask pipet 500 mls #M9212 & 15mls
2A 5% HNO3 #M9219 Bring up to mark with DI H_2O exp Oct 15 2010.
5% HCL

M9590 05/27/10 GFAA LOD Soil Spiking Solution Exp. 06-30-10
GAE 1% HNO_3 Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	0.06	M9052	1000	0.003
Sb	0.6	M9053	1000	0.03
Se	1.6	M9054	1000	0.08
Tl	0.5	M9333	1000	0.025
Pb	0.4	M9521	**10000**	0.002
As	1.6	M9058	1000	0.08

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

#M9577 5/25/10
AMA
5% HNO_3
5% HCl

3050 LOD Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	~~MDL~~ LOD (ug/L) 5/25/10 AMA	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	0.68	M9052	1000	0.034
Al	1.6	M9374	**10000**	0.008
Ba	0.32	M9518	1000	0.016
Be	0.16	M9334	1000	0.008
Cd	0.24	M9055	1000	0.012
Co	0.6	M9299	1000	0.03
Cr	0.76	M9273	1000	0.038
Cu	2.4	M9522	**10000**	0.012
Mg	4.8	M9218	**10000**	0.024
Mn	0.8	M9332	1000	0.04
Mo	0.56	M9302	1000	0.028
Ni	0.72	M9274	1000	0.036
Pb	1.6	M9521	**10000**	0.008
Sb	3.2	M9053	1000	0.16
V	0.44	M9056	1000	0.022
Zn	1.6	M9276	1000	0.08
K	440	M9222	**10000**	2.2
Na	160	M9280	**10000**	0.8
As	5.2	M9058	1000	0.26
Ca	6	M9373	**10000**	0.03
Fe	12	M9219	**10000**	0.06
Se	2.8	M9054	1000	0.14
Tl	1.6	M9333	1000	0.08

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Exp 6/30/10

#M9578 5/25/10
AMA
5% HNO_3
5% HCl

3050 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	~~MDL~~ LOQ (ug/L) 5/25/10 AMA	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
B	28	M9140	1000	1.4
Si	56	M9448	1000	2.8

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Exp 8/30/10

#M9579 5/25/10 AMA
5/25/10
AMA
5% HNO_3
5% HCl

3050 LOD Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	~~MDL~~ LOD (ug/L) 5/25/10 AMA	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
B	18	M9140	1000	0.9
Si	16	M9448	1000	0.8

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard

Exp. 8/30/10

#M9576 05/24/10 AMA

5% HNO_3

5% HCl

3050 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	~~MDL~~ LOQ 5/24/10 AMA (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	2.24	M9052	1000	0.112
Al	4.8	M9374	**10000**	0.024
Ba	1.08	M9518	1000	0.054
Be	0.48	M9334	1000	0.024
Cd	0.84	M9055	1000	0.042
Co	1.96	M9299	1000	0.098
Cr	2.52	M9273	1000	0.126
Cu	8	M9522	**10000**	0.04
Mg	16	M9218	**10000**	0.08
Mn	2	M9332	1000	0.1
Mo	1.92	M9302	1000	0.096
Ni	2.44	M9274	1000	0.122
Pb	5.6	M9521	**10000**	0.028
Sb	10.8	M9053	1000	0.54
V	1.36	M9056	1000	0.068
Zn	4.8	M9276	1000	0.24
K	1440	M9222	**10000**	7.2
Na	520	M9280	**10000**	2.6
As	18	M9058	1000	0.9
Ca	20	M9373	**10000**	0.1
Fe	40	M9219	**10000**	0.2
Se	16.8	M9054	1000	0.84
Tl	5.6	M9333	1000	0.28

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Exp 6/30/10

#M9577 AMA

#M9578 AMA

5/24/10 AMA

#M9579 5/2 AMA

#M9575 5/20/10

AMA

5% HNO_3

5% HCL

3010 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask. pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	2	M9052	1000	0.1
Al	26	M9374	**10000**	0.13
Ba	1.8	M9518	1000	0.09
Be	0.86	M9334	1000	0.043
Cd	0.4	M9055	1000	0.02
Co	4.3	M9299	1000	0.215
Cr	2	M9273	1000	0.1
Cu	3.8	M9522	10000	~~0.19~~ 0.019
Mg	11	M9218	**10000**	0.055
Mn	2	M9332	1000	0.1
Mo	1.2	M9302	1000	0.06
Ni	4.2	M9274	1000	0.21
Pb	4.9	M9521	**10000**	0.0245
Sb	16	M9053	1000	0.8
V	1.7	M9056	1000	0.085
Zn	5.9	M9276	1000	0.295
K	900	M9222	**10000**	4.5
Na	340	M9280	**10000**	1.7
As	13	M9058	1000	0.65
Ca	100	M9373	**10000**	0.5
Fe	29	M9219	10000	~~1.45~~ 0.145
Se	14	M9054	1000	0.7
Tl	5	M9333	1000	0.25

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

#M9572 05/20/10
GAE
1% HNO_3

GFAA LOD Spiking Solution
Base SPIKE PREPARATION 50x

Exp. 06-30-10

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	0.04	M9052	1000	0.002
Pb	0.4	M9521	**10000**	0.002
Sb	0.9	M9053	1000	0.045
As	0.6	M9058	1000	0.03
Se	1.6	M9054	1000	0.08
Tl	0.8	M9333	1000	0.04

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

#M9573 05/20/10
GAE
1% HNO_3

GFAA LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Exp. 06-30-10

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	0.13	M9052	1000	0.0065
Pb	1.3	M9521	**10000**	0.0065
Sb	3.1	M9053	1000	0.155
As	1.8	M9058	1000	0.09
Se	5.2	M9054	1000	0.26
Tl	1.3		1000	0.065

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

#M9574 05/20/10
GAE
Sodium Chloride Fisher Lot No. 097125 f.w. 58.44

M9575 5/20/10
AMA
5% HNO_3
5% HCL

d 114mL
mL 10N NaOH
mix.

#M9564 05/20/10 CSF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
flask pipet #M9565 05/20/10 CSF ning up	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9566 05/20/10 CSF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9565) into 100ml = 3.0ug/L Hg
mL #M9567 05/20/10 CSF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9568 05/20/10 CSF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9565) into 100ml = 0.2ug/L Hg
#M9568 05/20/10 CSF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 489) with 1part HNO3 (AB: 490)
#M9569 5/20/10 CSF	Potassium Persulfate	Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water

#M9571 5/20/10
AMA 5% HNO_3
5% HCl

LOD Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	1	M9052	1000	0.05
Al	4	M9374	10000	0.02
Ba	0.26	M9518	1000	0.013
Be	0.13	M9334	1000	0.0065
Cd	0.11	M9055	1000	0.0055
Co	1.3	M9299	1000	0.065
Cr	0.7	M9273	1000	0.035
Cu	1.2	M9522	10000	~~0.06~~ 0.006
Mg	3	M9218	10000	0.015
Mn	0.7	M9332	1000	0.035
Mo	0.4	M9302	1000	0.02
Ni	0.6	M9274	1000	0.03
Pb	1.5	M9521	10000	0.0075
Sb	4	M9053	1000	0.2
V	0.5	M9056	1000	0.025
Zn	1.8	M9276	1000	0.09
K	300	M9222	10000	1.5
Na	100	M9280	10000	0.5
As	4	M9058	1000	0.2
Ca	15	M9373	10000	0.075
Fe	9	M9219	10000	~~0.45~~ 0.045
Se	2.3	M9054	1000	0.115
Tl	1.6	M9333	1000	0.08

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

#M9553 05/12/10 CSF — TCLP Extraction Fluid #1: Fill a 20L carboy w/ 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB. 4687 and 128.6mL 10N NaOH (#M9495). Dilute to 20L w/ D.I. H_2O and mix. pH: 4.93 ± 0.05.

Exp 05/12/11

#M9554 5-14-10 JA — Borosilicon "MRI" Low level std. Into 500 ml Vol flask pipet .015 mls of #M9448 (S:) or .005 mls #M9140 (B) Bring up to mark with DI H_2O ex 8/10.

M9555 5/14/10 AMA — NaCl Hydroxylamine sulfate Reagent: Dissolve 60g NaCl (#M9082a) and 60g Hydroxylamine Sulfate (#M9249) in 500mL Milli-Q H_2O. Exp. 11/14/10

M9556 05/14/10 CSF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
M9557 05/14/10 CSF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
M9558 05/14/10 CSF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9557) into 100ml = 3.0ug/L Hg
M9559 05/14/10 CSF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
M9560 05/14/10 CSF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9557) into 100ml = 0.2ug/L Hg
M9561 05/14/10 CSF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 489) with 1part HNO3 (AB: 490)
M9562 05/14/10 CSF	Potassium Persulfate	Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water

9563 05/17/10 CSF — TCLP Extraction Fluid #1: Fill a 20L carboy w/ 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB 4687 and 128.6mL 10N NaOH (#M9495). Dilute to 20L w/ D.I. H_2O and mix. pH: 4.93 ± 0.05.

Exp. 05/17/11

#M9564 05/20/10

#M9565 05/20/1

#M9566 05/

#M9567 05/

#M9568 05/

#M9568 05

#M9569

#M9571 5 AMA

Vol. with

Vol. th

6l. 2

#M9537 05/05/10 GE — Hg Working Stds: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M9538 05/05/10 GE — Hg Alt Source Working Std: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M9539 05/05/10 GE — Hg ICV / LCSW (0.2% HNO3, HCl)
3.0ml of 100ug/L Hg (#M 9538) into 100ml = 3.0ug/L Hg

#M9540 05/05/10 GE — Hg CCV (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

05/05/10 GE
#M9541 05/05/10 GE — Hg MRL: (0.2% HNO3, HCl)
0.2ml of 100ug/L Hg (#M 9538) into 100ml = 0.2ug/L Hg

#M9542 05/05/10 GE — Hg Aqua Regia Reagent:
"Carefully" in hood, mix 3 parts HCl (AB: 484) with 1part HNO3 (AB: 486)

#M9543 05/05/10 GE — Potassium Persulfate
Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water

#M9544 05/05/10 GE — Hg Spiking Solution: Pipet 1.0mL of 1000 mg/L Hg (#M9063) → 100mL = 10mg/L Hg
10mL of 10mg/L Hg → 100mL = 1000µg/L Hg

#M9545 05/07/10 GE — Silicon 1000 ppm Fisher Lot No. 102251 Exp. 04/2012

#M9546 05/10/10 GE — Hg Working Stds: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M9547 05/10/10 GE — Hg Alt Source Working Std: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M9548 05/10/10 GE — Hg ICV / LCSW (0.2% HNO3, HCl)
3.0ml of 100ug/L Hg (#M 9547) into 100ml = 3.0ug/L Hg

0 5/03/10 GE 5)

#M9549 05/10/10 GE — Hg CCV (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

D
illi-QH2O

#M9550 05/10/10 GE — Hg MRL: (0.2% HNO3, HCl)
0.2ml of 100ug/L Hg (#M 9547) into 100ml = 0.2ug/L Hg

#M9551 05/10/10 GE — Hg Aqua Regia Reagent:
"Carefully" in hood, mix 3 parts HCl (AB: 489) with 1part HNO3 (AB: 490)

5-11-10

#M9552 05/10/10 GE — Potassium Persulfate
Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water

#M9524 04/27/10 GFAA Base Std (25µg/L) (5% HCl, 2% HNO_3) Pipet 25mL of #M9482 into a 1L Vol. flask and bring it up to volume with Milli-Q H_2O. Exp. 04-01-11
GJE

#M9525 04/27/10 GFAA Alt. Source Std (10µg/L) (5% HCl, 2% HNO_3) Pipet 50mL of #M9483 into a 1L Vol. flask and bring it up to volume with Milli-Q H_2O. Exp. 04-01-11
GJE

#M9526 04/27/10 GFAA CCV Std (10µg/L) (5% HCl, 2% HNO_3) Pipet 10mL of #M9482 into a 1L Vol. flask and bring it up to volume with Milli-Q H_2O. Exp. 04-01-11
GJE

#M9527 4/27/10 AMA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9528 4/27/10 AMA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
M9529 4/27/10 AMA	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 9528) into 100ml = 3.0ug/L Hg
49530 4/27/10 AMA	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
M9531 4/27/10 AMA	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 9528) into 100ml = 0.2ug/L Hg
M9532 4/27/10 AMA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 484) with 1part HNO3 (AB: 486)
M9533 4/27/10 AMA	Potassium Persulfate	Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water

M9534 05/03/10 Spike Sample Standard 1 Spex CertiPrep Lot No. 41-10AS
GJE Exp. 04-30-11

M9535 05/03/10 TCLP Extraction Fluid #1: Fill a 20L carboy w/ 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB: 468) and 128.6mL 10N NaOH (#M9485). Dilute to 20L w/ D.I. H_2O and mix. The pH = 4.93 ± 0.05.
LSF Exp. 05/03/11 05/03/10 LSF

#M9511 4/20/10 AMA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9512 4/20/10 AMA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9513 4/20/10 AMA	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9512) into 100ml = 3.0ug/L Hg
#M9514 4/20/10	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9515 4/20/10 AMA	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9512) into 100ml = 0.2ug/L Hg
#M9516 4/20/10 AMA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 484) with 1part HNO3 (AB: 486)
#M9517 4/20/10 AMA	Potassium Persulfate	Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water

#M9518 4/22/10 AMA — Barium Standard 1,000 mg/L spex certiprep Lot NO. 15-160 BA
Expires 4/30/11

Stannous (84)

#M9519 4/22/10 AMA — Chromium standard 10,000 mg/L spex certiprep Lot NO. 411-222CR
Expires 4/30/11

acial (#M9485) 0.05.

#M9520 4/22/10 AMA — Manganese Standard 10,000 mg/L spex certiprep Lot NO. 312-05MN
Expires 4/30/11

#M9521 4/22/10 AMA — Lead standard 10,000 mg/L spex certiprep Lot NO. AA12-28PB
Expires 4/30/11

#M9522 4/22/10 AMA — Copper Standard 10,000 mg/L spex certiprep Lot NO AC12-16CU
Expires 4/30/11

#M9523 04/27/10 15F — TCLP Extraction Fluid #1: Fill a 20L carboy w/19L D.I. H_2O. Add 11.4mL Glacial Acetic Acid (AB. 468) and 128.6mL 1.0N NaOH (#M9485). Dilute to 20L w/D.I. H_2O and mix. The pH = 4.93 ± 0.05.

Exp: 04/27/11

#M9502 4/13/10 AMA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9503 4/13/10 AMA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9504 4/13/10 AMA	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 9503) into 100ml = 3.0ug/L Hg
#M9505 4/13/10 AMA	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9506 4/13/10 AMA	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 9503) into 100ml = 0.2ug/L Hg
#M9507 4/13/10 AMA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 484) with 1part HNO3 (AB: 486)
#M9508 4/13/10 AMA	Potassium Persulfate	Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water

#M9509 04/14/10 GVE Stannous Chloride Reagent: Into a 1000 mL Vol. flask, dissolve 100g Stannous Chloride (#M94056) in 70mL HCL (AB:484) Bring up to mark with D.I. Exp. 04/14/11

#9510 04/14/10 TCLP Extraction Fluid #1: fill a 20L carboy w/ ~~20L~~ 19 04/14/10 L D7 H2O. Add 114.6mL Glacial Acetic Aced (AB:4687) and 128.6mL 10N NaOH (#M9485) Dilute to 20L w/ D7 H2O and mix. The pH = 4.93 ± 0.05. 04/14/10 JSK

Exp. 04/14/11

#M9511 4/20/10 AMA

#M9512 4/20/10 AMA

#M9513 4/20/10 AMA

#M9514 4/20/10

#M9515 4/20/10 AMA

#M9516 4/20/10 AMA

#M9517 4/20/10 AMA

#M9518 4/22/1 AMA

#M9519 4/22/10 AMA

#M9520 4/22/10 AMA

#M9521 4/22/10 AMA

#M9522 4/22/10 AMA

1L Vol. with -11

#M9495 04/07/10 GE 10N NaOH: Into a 1L Vol. Flask add 400g NaOH (#W22703) and bring up to volume with D.I. H_2O. Exp. 04-07-11

½ 1L Vol with

#M9496 04/07/10 GF TCLP Extraction Fluid #1: Fill a 20L carboy w/19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB.468) and 128.6mL 10N NaOH (#M9495). Dilute to 20L w/D.I. H_2O and mix. The PH = 4.93 ± 0.05. Exp. 04/07/11

a 1L me with

~~#M9497 04/07/10 Sand Blank - J.F.~~ 04/07/10 GE ~~GE~~

#M9497 04/12/10 GE Sodium Hydroxide: Fisher Lot No. 096813

a 1L lume with

#M9498 4-13-10 IC5A IOP Into 500ml volumetric flask piped 50mls #M9212 & 15mls #M9219 Brmeq up to mark with DI H_2O ex 10/10.
5% HCL
5% HNO3

e with

#M9499 4-13-10 IC5AB ICAP Into 500 ml volumetric flask piped 50mls #M9212 & 15mls #M9219 20mls #M9298 & 2.0 mls #M9188 bring up to mark with DI H_2O. ex 09/10.
5% HCL
5% HNO3

Dilute

#M9500 AMA 4/13/10 Potassium Permanganate soln: 50g Potassium Permanganate (#M8969) dissolved into 1000mL Milli-Q H_2O. Exp: 10/13/10

#M9501 4/13/10 AMA Nacl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M9082a) and 60g Hydroxylamine Sulfate (#M9249) in 500mL Milli-Q H_2O. Exp: 10/13/10

#M9502 04/14/10 GE Stannous Chloride Reagent: Into a 1000 mL Vol. flask, dissolve 100g Stannous Chloride (#) in 70mL HCl (AB.)

04/14/10 GE

#M9482 03/30/10 GFAA Working Base Std (1000µg/L) (1% HNO3) — Pipet 10mL of #M9471 into 1L Vol. Flask & bring up to volume with Milli.Q H2O. Exp 04-01-11 — GUE

#M9483 03/30/10 GFAA Alt. Source Working Std (200µg/L) (1% HNO3) — Pipet 20mL of #M9472 into 1L Vol Flask & bring up to volume with Milli.Q H2O. Exp. 04-01-11 — GUE

#M9484 03/30/10 GFAA Base Std. (25µg/L) (1% HNO3) — Pipet 25mL of #M9482 into a 1 L Vol flask and bring up to volume with Milli.Q H2O. Exp. 04-01-11 — GUE

#M9485 03/30/10 GFAA Alt. Source Std (10µg/L) (1% HNO3) — Pipet 50mL of #M9483 into a 1L Vol. Flask and bring up to volume with Milli.Q H2O. Exp. 04-01-11 — GUE

#M9486 03/30/10 GFAA CCV Std (10µg/L) (1% HNO3) — Pipet 10mL of #M9482 into a 1L Vol. Flask and bring up to volume with Milli.Q H2O. Exp. 04-01-11 — GUE

#M9487 04/01/10 TCLP Extraction fluid #1: Fill a 20L carboy with 19L D.I. H2O. Add 114mL (Glacial Acetic Acid (AB: 468) and 128.6mL 10N NaOH (#M9265). Dilute to 20L with D.I. H2O and mix. The pH = 4.93 ± 0.05. Exp. 4/01/11 — AMA

#M9488 04/06/10 GUE/LJF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg	
#M9489 04/06/10 LSF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg	
#M9490 04/06/10 LSF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9489) into 100ml = 3.0ug/L Hg	
#M9491 04/06/10 LSF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg	
#M9492 04/06/10 LSF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9489) into 100ml = 0.2ug/L Hg	
#M9493 04/06/10 LSF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 484) with 1part HNO3 (AB: 486)	
#M9494 04/06/10 LSF	Potassium Persulfate	Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water	

#M9471 3-26-10 Inorganic Ventures, CTISPK-1 lot# D2-MEB324063
ex April-1-2011.

#M9472 3-26-10 Inorganic Ventures, CTI-GFCAL-1 lot# D2-MEB324062
ex April-1-2011.

#M9473 03/29/10 Potassium Persulfate: 50g Potassium Persulfate (#M9010) dissolved into 1000mL D.I. H_2O Exp. 09/29/10
GAE

#M9474 03/29/10 LSF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9475 03/29/10 LSF	Hg.. Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9476 03/29/10 LSF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9475) into 100ml = 3.0ug/L Hg
#M9477 03/29/10 LSF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9478 03/29/10 LSF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9475) into 100ml = 0.2ug/L Hg
#M9479 03/29/10 LSF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 484) with 1part HNO3 (AB: 486)

#M9480 03/29/10 Potassium Permanganate Soln: 50g Potassium Permanganate (#8969)
LSF dissolved into 1000mL milli Q H_2O Exp. 09/29/10

#M9481 3-30-10 ICV/LCSW Into 1 Liter Vol flask pipet 10mls of #M9316
5% HNO_3 (AB: 475) 2.0mls M9212, 0.07mls #M9052. 0.5mls #M9803
5% HCL (AB. 486) Brings up to mark with DI H_2O. ex 6/10.

#M9464 03/22/10 AMA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9465 03/22/10 AMA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9466 03/22/10 AMA	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9465) into 100ml = 3.0ug/L Hg
#M9467 03/22/10 AMA	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9468 03/22/10 AMA	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9465) into 100ml = 0.2ug/L Hg
#M9469 03/22/10 AMA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 484) with 1part HNO3 (AB: 486)

#M9470 3/8-10
EA

ICAP Working Standards

5% HNO3 5%HCL

Standard name	Pipet the following respectively:
0.25	0.25 mls of standard 100 ug/L into 1000 ml volumetric flask = 0.25 ug/L std
0.5	0.50 mls of standard 100 ug/L into 1000ml volumentric flask= 0.50 ug/L std
#1 1	1.0 mls of standard 100ug/L into 1000 ml volumentrc flask =1.00 ug/L std
C 5	5.0 mls of standard 100ug/L into 1000 ml volumentrc flask =5.00 ug/L std
10	10.0 mls of standard 100ug/L into 1000 ml volumentrc flask =10.0 ug/L std
20	20.0 mls of standard 100ug/L into 1000 ml volumentrc flask =20.0 ug/L std
AMC 50	50.0 mls of standard 100ug/L into 1000 ml volumentrc flask =50.0 ug/L std
100	1.0 mls of #M9298(ex 12-10) and 1.0 mls of #M9188 (ex 9/10) into 1000 ml volumectric flask= 100 ug/L std
F 500	5.0 mls of #M9298(ex 12/10) and 5.0 mls of #M9188 (ex 9/10) into 1000 ml volumetric flask= 500 ug/L std
1000	10.0 mls of #M9288(ex 12/10) and 10.0 mls of #M9188 (ex 9/10) into 1000 ml volumetric flask= 1000 ug/L std
10,000	10.0 mls of #M9298(ex 12/10), 10.0 mls of #M9188 (ex 9/10) into 1000 ml=10,000 ug/L std
100k	10 mls of #M8961 (Cu) (ex 5/10) , 10 mls of #M8966 (Mn)(ex 5/10) , 10 mls of #M9057 (Cr)(ex 6/10), 10 mls #M8965 (Pb)(ex 5/10) 100 mls #M9276 (Zn)(ex 12/10) = 100,000 ug/L
100,000	10 mls of #M9218 (Mg) (ex 10/10) , 10 mls of #M9219 (Fe) (ex 10/10) ,10 mls of #M9373 (Ca)(ex 1/11),10 mls #M9374 (AL)(ex 1/11) into 1000 ml vol flask = 100,000 ug/l std
AM 500,000	50 mls of #M9218 (Mg) (ex 10/10) , 50 mls of #M9219 (Fe) (ex 10/10) ,50 mls of #M9373 (Ca)(ex 1/11).50 mls #M9374 (AL)(ex 1/11) into 1000 ml vol flask = 500,000 ug/l std
1000k	100 mls of #M9218 (Mg) (ex 10/10) , 100 mls of #M9219 (Fe) (ex 10/10) ,100 mls of #M9373 (Ca)(ex 1/11),100 mls #M9374 (AL)(ex 1/11) into 1000 ml vol flask = 1,000,000 ug/l std
#M A	Bring the 1000 ml volumetric up to mark with DI H2O QX 5/10

#M94 7
#M94 2
#M9473 GE
#M9474 CSF
#M9475 CSF
#M9476 CSF
#M9477 CSF
#M9478 CSF
#M9479 CSF
#M9480 CSF
#M9481
2% HNO3 AR
2% HCL (AR

#M9 A
#M9 A
#M9 F
#M

#M9455 3-15-10 LFS Spex Certiprep Lot # 15-114JB.
2ml

#M9456 03/17/10 LSF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9457 03/17/10 LSF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9458 03/17/10 LSF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 9450) into 100ml = 3.0ug/L Hg
#M9459 03/17/10 LSF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9460 03/17/10 LSF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 9450) into 100ml = 0.2ug/L Hg
#M9461 03/17/10 LSF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 475) with 1part HNO3 (AB: 483)

#M9462 3-18-10 CCV std for ICAP. Auto 1 Liter volumetric
2 pipet 10 mls of #M9455, 1ml of #M9218 #M8964,
5% HNO3 #M8967 and ~~#10.0~~ 0.5mls of #M9219 Bring up to mark
5% HCL w. the DI H_2O. ~~AB 3-23-10~~ ex 5/10.

#M9463 3-18-10 ICV/LCSW ICP auto 1 Liter Vol flask pipet
2 5% HNO3 10 mls of #M9220, 0.05 mls #M9052 0.5 mls M9278,
5% HCL 0.5 mls M9140. ~~AB 3-23-10 #M9441 Bring up~~ up to mark with
DI H_2O. ex 5/10.
* 1 ml. of M8964, M8967, M9218, M9219.

#M9447 03/05/10
AMA 5% HNO_3
5% HCl

LOD Check Base SPIKE PREPARATION 3010 Diss. **2x**

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	1.2	M9052	1000	0.06
Al	2.4	M8967	**10000**	0.012
Ba	0.8	M8959	1000	0.04
Be	0.22	M9334	1000	0.011
Cd	0.42	M9055	1000	0.021
Co	0.54	M9299	1000	0.027
Cr	1.4	M9273	1000	0.07
Cu	2.6	M8961	**10000**	0.013
Mg	3.6	M9218	**10000**	0.018
Mn	1.2	M9332	1000	0.06
Mo	0.6	M9302	1000	0.03
Ni	1.8	M9274	1000	0.09
Pb	3.6	M8965	**10000**	0.018
Sb	6	M9053	1000	0.3
V	0.8	M9056	1000	0.04
Zn	1.4	M9276	1000	0.07
K	560	M9222	**10000**	2.8
Na	140	M9280	**10000**	0.7
B	6	M9140	1000	0.3
Si	12	M9121	1000	0.6
As	16	M9058	1000	0.8
Ca	10	M8964	**10000**	0.05
Fe	4	M9219	**10000**	0.02
Se	4.6	M9054	1000	0.23
Tl	5.4	M9333	1000	0.27

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

#M9455 3-15-10
ZA

#M9456 03/17/10
LSF

#M9457 03/17/10
LSF

#M9458 03/17/10
LSF

#M9459 03/17/10
LSF

#M9460 03/17/10
LSF

#M9461 03/17/10
LSF

#M9462 3-18
ZA
5% HNO_3
5% HCL

#M9463 3-18-10
ZA 5% HNO_3
5% HCL

#M9448 3-8-10 Silicon 1000mg/L Fisher Lot # 090135 ex 1/2011
ZA

#M9449 3/11/10
AMA

Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9450) into 100ml = 3.0ug/L Hg
Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9450) into 100ml = 0.2ug/L Hg
Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 475) with 1part HNO3 (AB: 483)

#M9450 3/11/10
AMA

#M9451 3/11/10
AMA

#M9452 3/11/10
AMA

#M9453 3/11/10
AMA

#M9454 3/11/10
AMA

#M9444 03/04/10
AMA 5% HNO_3

MDL Check Base SPIKE PREPARATION Diss **2x**

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	1	M9278	1000	0.05
Sn	1.6	M9281	**1000**	0.08
Sr	0.6	M9300	1000	0.03
Ti	1.2	M9277	1000	0.06
W	10	M9275	1000	0.5

of This base standard, pipet 10mls into 500 mL Volumetric to create a working standard or 1mL into 50mL digestion tube for a digested working standard. Exp 12/15/10

#M9445 03/04/10
AMA 5% HNO_3

LOQ Check Base SPIKE PREPARATION diss **2x**

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	3.2	M9278	1000	0.16
Sn	5	M9281	**1000**	0.25
Sr	2.2	M9300	1000	0.11
Ti	4	M9277	1000	0.2
W	30	M9275	1000	1.5

of This base standard, pipet 10mls into 500mL Volumetric to create a working standard or 1mL into 50mL digestion tube for a digested working standard. Exp 12/15/10

#M9446 03/05/10
AMA 5% HNO_3
5% HCl

LOQ Check Base SPIKE PREPARATION 3010 Diss. **2x**
Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	4	M9052	1000	0.2
Al	8.2	M8967	**10000**	0.041
Ba	2.4	M8959	1000	0.12
Be	0.72	M9334	1000	0.036
Cd	1.42	M9055	1000	0.071
Co	1.8	M9299	1000	0.09
Cr	4.2	M9273	1000	0.21
Cu	8.8	M8961	**10000**	0.044
Mg	12.2	M9218	**10000**	0.061
Mn	4.2	M9332	1000	0.21
Mo	2.2	M9302	1000	0.11
Ni	5.6	M9274	1000	0.28
Pb	11.6	M8965	**10000**	0.058
Sb	19.8	M9053	1000	0.99
V	2.8	M9056	1000	0.14
Zn	4.8	M9276	1000	0.24
K	1860	M9222	**10000**	9.3
Na	460	M9280	**10000**	2.3
B	22	M9140	1000	1.1
Si	38	M9121	1000	1.9
As	50	M9058	1000	2.5
Ca	34	M8964	**10000**	0.17
Fe	13	M9219	**10000**	0.065
Se	15.6	M9054	1000	0.78
Tl	18	M9333	1000	0.9

of This base standard, pipet 10mls into 500 mL Volumetric to create a working standard or 1mL into 50mL digestion tube for a digested working standard. Exp

#M9441 03/04/10
AMA 5% HNO_3

LOQ Check Base SPIKE PREPARATION 3050 0.5 **2x**

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	5.2	M9278	1000	0.26
Sn	6.8	M9281	**1000**	0.34
Sr	11	M9300	1000	0.55
Ti	3.8	M9277	1000	0.19
W	30	M9275	1000	1.5

of This base standard, pipet 10mls into 500mL volumetric to create a working standard or 1mL into 50mL digestion tube for a digested working standard. Exp 12/15/10

#M9442 03/04/10
AMA 5% HNO_3

MDL Check Base SPIKE PREPARATION 3010 **2x**

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	1	M9278	1000	0.05
Sn	0.81	M9281	**1000**	0.0405
Sr	2	M9300	1000	0.1
Ti	1	M9277	1000	0.05
W	4	M9275	1000	0.2

of This base standard, pipet 10mls into 500mL volumetric to create a working standard or 1mL into 50mL digestion tube for a digested working standard. Exp 12/15/10

#M9443 03/04/10
AMA 5% HNO_3

LOQ Check Base SPIKE PREPARATION 3010 **2x**

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	3.6	M9278	1000	0.18
Sn	6	M9281	**1000**	0.3
Sr	6.8	M9300	1000	0.34
Ti	3.6	M9277	1000	0.18
W	28	M9275	1000	1.4

of This base standard, pipet 10mls into 500mL volumetric to create a working standard or 1mL into 50mL digestion tube for a digested working standard. Exp. 12/15/10

#M9444 03/04/10
AMA 5% HNO_3

#M9445 03/04/10
AMA 5% HNO_3

#M9446 03/05/10
AMA 5% HNO_3
5% HCl

LOC

#M9438 03/04/10
AMA 5% HNO_3

LOQ Check Base SPIKE PREPARATION 3050 2.0 **2x**

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	3.6	m9278	1000	0.18
Sn	6.2	m9281	**1000**	0.31
Sr	1.48	m9300	1000	0.074
Ti	5.2	m9277	1000	0.26
W	28	m9275	1000	1.4

of This base standard, pipet 10mls into 500mL volumetric to create a working standard or 1mL into 50mL digestion tube for a digested working standard. Exp 12/15/10

#M9439 03/04/10
AMA 5% HNO_3

LOD Check Base SPIKE PREPARATION 3050 2.0 **2x**

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	1	m9278	1000	0.05
Sn	2	m9281	**1000**	0.1
Sr	0.44	m9300	1000	0.022
Ti	1.6	m9277	1000	0.08
W	8	m9275	1000	0.4

of This base standard, pipet 10mls into 500mL volumetric to create a working standard or 1mL into 50mL digestion tube for a digested working standard. Exp 12/15/10

#M9440 3/4/10
AMA 5% HNO_3

MDL Check Base SPIKE PREPARATION 3050 0.5 **2x**

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	1.6	M9278	1000	0.08
Sn	2	M9281	**1000**	0.1
Sr	3.2	M9300	1000	0.16
Ti	1.2	M9277	1000	0.06
W	8	M9275	1000	0.4

of This base standard, pipet 10mls into 500mL volumetric to create a working standard or 1mL into 50mL digestion tube for a digested working standard. Exp 12/15/10

#M9431 03/02/10 AMA — 1% conc HNO3, 1% conc HCl, 3/2/10 AMA

#M9438 03/04/10 AMA 5% HNO3

#M9439 03/04/10 AMA 5% HNO3

#M9440 3/4/10 AMA 5% HNO3

LOQ Check Base SPIKE PREPARATION 3050 0.5 **2x**

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	4.8	M9052	1000	0.24
Al	10	M8967	**10000**	0.05
Ba	3.34	M8959	1000	0.167
Be	1.1	M9334	1000	0.055
Cd	0.8	M9055	1000	0.04
Co	2	M9299	1000	0.1
Cr	5.2	M9273	1000	0.26
Cu	10.6	M8961	**10000**	0.053
Mg	114	M9218	**10000**	0.57
Mn	9.4	M9332	1000	0.47
Mo	4.2	M9302	1000	0.21
Ni	3.6	M9274	1000	0.18
Pb	8.2	M8965	**10000**	0.041
Sb	22	M9053	1000	1.1
V	3.4	M9056	1000	0.17
Zn	4	M9276	1000	0.2
K	460	M9222	**10000**	2.3
Na	340	M9280	**10000**	1.7
B	40	M9140	1000	2
~~Si~~	~~620~~	~~M9121~~	~~1000~~	~~31~~ 03/02/10 AMA
As	24	M9058	1000	1.2
Ca	48	M8964	**10000**	0.24
Fe	52	M9219	**10000**	0.26
Se	20	M9054	1000	1
Tl	14	M9333	1000	0.7

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

#M9432 03/04/10 CAE — Hg Working Stds: (0.2% HNO3, HCl)
- 1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg
- 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
- 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
- 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
- 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
- 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
- 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
- 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M9433 03/04/10 CAE — Hg Alt Source Working Std: (0.2% HNO3, HCl)
- 1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
- 1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M9434 03/04/10 CAE — Hg ICV / LCSW (0.2% HNO3, HCl)
- 3.0ml of 100ug/L Hg (#M9433) into 100ml = 3.0ug/L Hg

#M9435 03/04/10 CAE — Hg CCV (0.2% HNO3, HCl)
- 1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg
- 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
- 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

#M9436 03/04/10 CAE — Hg MRL: (0.2% HNO3, HCl)
- 0.2ml of 100ug/L Hg (#M9433) into 100ml = 0.2ug/L Hg

#M9437 03/04/10 CAE — Hg Aqua Regia Reagent:
- "Carefully" in hood, mix 3 parts HCl (AB: 475) with 1part HNO3 (AB: 483)

#M9426 03/02/10 Be working std. Pipet 1.0mL of 1,000mg/L Be (#M9334) into a 100mL vol. flask.
AMA (1% HNO_3, HCl) Bring up to volume with D.I. H_2O. Exp. 01/15/2011

#M9427 03/02/10 Cd working std. Pipet 1.0mL of 1,000mg/L Cd (#M9055) into a 100mL vol. flask.
AMA (1% HNO_3, HCl) Bring up to volume with D.I. H_2O. Exp. 6/30/10

#M9428 03/02/10 Cu working std. Pipet 1.0mL of 10,000mg/L Cu (#M8961) into a 100mL vol. flask.
AMA (1% HNO_3, HCl) Bring up to volume with D.I. H_2O. Exp. 5/15/10

#M9429 03/02/10 Mg working std. Pipet 1.0mL of 10,000 mg/L Mg (#M9218) into a 100mL vol. flask.
AMA (1% HNO_3, HCl) Bring up to volume with D.I. H_2O. Exp. 10/15/10

#M9430 03/02/10
AMA 1% 10% HNO_3
1% 10% HCl
3/2/10 AMA

MDL Check Base SPIKE PREPARATION 305 0.5 **2x**

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	1.4	M9052	1000	0.07
Al	4	M8967	**10000**	0.02
Ba	1	M8959	1000	0.05
Be	0.34	M9334	1000	0.017
Cd	0.2	M9055	1000	0.01
Co	0.6	M9299	1000	0.03
Cr	1.6	M9273	1000	0.08
Cu	3.2	M8961	**10000**	0.016
Mg	34	M9218	**10000**	0.17
Mn	2.8	M9332	1000	0.14
Mo	1.2	M9302	1000	0.06
Ni	1.2	M9274	1000	0.06
Pb	2.4	M8965	**10000**	0.012
Sb	6	M9053	1000	0.3
V	1	M9056	1000	0.05
Zn	2	M9276	1000	0.1
K	140	M9222	**10000**	0.7
Na	100	M9280	**10000**	0.5
B	12	M9140	1000	0.6
Si	186	M9121	1000	9.3
As	8	M9058	1000	0.4
Ca	14	M8964	**10000**	0.07
Fe	16	M9219	**10000**	0.08
Se	6	M9054	1000	0.3
Tl	4	M9333	1000	0.2

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

#M9415 03/01/10 GJE	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg	#M9426 03/02/ AMA #M9427 03/02/ AMA
#M9416 03/01/10 GJE	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg	#M9428 03/02/ AMA
#M9417 03/01/10 GJE	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 9416) into 100ml = 3.0ug/L Hg	#M9429 03/02/1 AMA
#M9418 03/01/10 GJE	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg	#M9430 03/02/1 AMA 1% 1030 HNO3 1% 1070 HCl 3/2/10 AMA
#M9419 03/01/10 GJE	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 9416) into 100ml = 0.2ug/L Hg	
#M9420 03/01/10 GJE	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 475) with 1part HNO3 (AB: 482)	

#M9421 03/01/10 GJE Potassium Permanganate Soln: 50g Potassium Permanganate (#M8969) dissolved into 1000mL Milli-Q H_2O Exp. 09/01/10

#M9422 03/01/10 GJE, GEM CCV Std (1% HNO_3) Pipet 80mL of #M9236 into a 200mL Vol. flask and bring up to volume with Milli-Q H_2O. Exp. 04-01-10

M9423 03/01/10 ISF NaCl Hydroxylamine Sulfate Reagent - Dissolve 60g NaCl (#M8080Z a) 03/01/10 ISF and 60g ~~Hydroxylamine~~ Hydroxylamine Sulfate 03/01/10 ISF (#M9424a) in 500mL Milli-Q H_2O. Exp 09/01/10

M9424 03/01/10 ISF ICP Spiking Solution (24 mins.) (1% HNO_3) Expires: 05/15/2010 Into a 250mL Vol. Flask pipet the following and bring up to volume w/ DI H_2O
0.5mL of 1,000 mg/L Be (#M9334)
10 mL of 10,000 mg/L Cu (#M8961)
5mL of 1,000 mg/L Ni (#M9274)
10mL of 10,000 mg/L Zn (#M9963)

M9425 03/02/10 AMA AL Working std. (1% HNO_3, HCl) Pipet 1.0mL of 10,000 mg/L AL (#M8967) into a 100mL vol. flask. Bring up to volume with D.I. H_2O. Exp. 5/15/10

3/2/10

[redacted]

#M9404 ICSA. Dump 500ml Vol flask pipet 25mls #M9212 7.5mls of #M9219 Bring up to mark with DI H_2O. SK 10/10
5% HCl
5% HNO_3

#M9405 02/18/10 GE Tin (II) Chloride Dihydrate Fisher Lot No. 093481 500g
f.w. 225.65

#M9406 02/21/10 AmA TCLP Extraction Fluid #1 - Fill a 20L carboy with 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB: 468) and 128.6mL 10N NaOH (#M9033). Dilute to 20L with D.I. H_2O and mix. The pH = 4.93 ± 0.05. Exp. 02/21/11

#M9407 02/22/10 GE Potassium Persulfate: 50g Potassium Persulfate (#M9010) dissolved into 1000mL D.I. H_2O. Exp. 08/22/10

#M9408 02/22/10 GE	Hg Working Stds: (0.2% HNO_3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9409 02/22/10 GE	Hg Alt Source Working Std: (0.2% HNO_3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9410 02/22/10 GE	Hg ICV/CCV/LCSW: (0.2% HNO_3, HCl)	3.0ml of 100ug/L Hg (#M9409) into 100ml = 3.0ug/L Hg
#M9411 02/22/10 GE	Hg MRL:	0.2ml of 100ug/L Hg (#M9409) into 100ml = 0.2ug/L Hg
#M9412 02/22/10 GE	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 475) with 1part HNO_3 (AB: 482)

#M9413 02/22/10 GE Hg Soil MDL/LOQ Spiking Solution: (0.2% HNO_3, HCl) Pipet 10mL of 100 µg/L Hg (#M9409) into a 100mL Vol. Flask = 10 µg/L Hg

#M9414 2-23-10 Ⅱ 5% HNO_3 5% HCl. ICSA (TCLP) Dump 500ml Vol flask pipet 50mls of M9219. & 7.5mls of #M9212 Bring up to mark with DI H_2O.

SK 2/23/10

M9399 2-9-10
5% HNO3
5% HCl
LOQ Base std
3050

LOQ Check Base SPIKE PREPARATION 3050 2X calculated LOQ

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	Log #	LOQ (ug/L)	Std Concmount (mL) to (mg/L)	pipet into 1 L
Ag	M9052	4.4	1000	0.22
Al	M8967	10	10000	0.05
As	M9058	36	1000	1.8
Ba	M8959	2.2	1000	0.11
Be	M9334	0.98	1000	0.049
Ca	M8964	38	10000	0.19
Cd	M9055	1.6	1000	0.08
Co	M9299	4	1000	0.2
Cr	M9273	6	1000	0.3
Cu	M8961	16	10000	0.08
Fe	M9219	82	10000	0.41
Mg	M9218	32	10000	0.16
Mn	M9332	4.2	1000	0.21
Mo	M9302	3.8	1000	0.19
Ni	M9274	4.8	1000	0.24
Pb	M8965	12	10000	0.06
Sb	M9053	22	1000	1.1
Se	M9054	16	1000	0.8
Tl	M9333	12	1000	0.6
V	M9056	2	1000	0.1
Zn	M9276	10	1000	0.5
Na	M9280	1000	10000	5
K	M9222	2800	10000	14
B	M9140	58	1000	2.9
Si	M9121	108	1000	5.4

10 mls into 500 or 1ml into 50mls

Exp.4/1/2010

M9400 2-9-10 MDL (working) Check Std 3050 into 500 ml Vol flask pipet 10mls #M9398. Brings up to mark with DI H_2O. ok 4/10
5% HNO3
5% HCl

#M9401 2-9-10 LOQ (working) Check Std 3050 into 500 ml Vol flask pipet 10mls #M9399 Brings up to mark with DI H_2O. ok 4/10
5% HNO3
5% HCl

#M9402 2-18-10. ICSAB Na, K into ~~500~~ 250 ml Vol flask Pipet ~~25~~ 50 mls of ~~#M9219~~ #M9212, ~~25~~ 75 mls of #M9219 + 25 mls of #M9059 #M9060 brings up to mark with DI H_2O · ok 6/10
5% HNO3
5% HCl

#M9403 2-18-10 MRL (working) ICP DRP Dil 500 ml Vol flask pipet 10mls of #M9338 ~~of~~ then Brings up to Volume ok 3/10
5% HNO3
5% HCl

#M9404 ICSA
5% HCl
5% HNO3

#M9405 02/18/10 Tin C
GLE f.w.

#M9406 02/21/10 ICLP E
AmA

#M9407 02/22/10 Potas
GLE

#M9408 02/22/10 Hg
GLE (0.

#M9409 02/22/10 Hg
GLE (0.

#M9410 02/22/10 Hg
GLE (0.

#M9411 02/22/10 Hg
GLE

#M9412 02/22/10 Hg
GLE

#M9413 02/22/10 Hg Soi
GLE Lo

#M9414 2-23-10
5% HNO3
5% HCl.

ipet the
ne with D.I.

= 40 µg/L Tl
) = 40 µg/L Pb
) = 2 µg/L Ag

pipet the
volume with
-10
#M9333) = 130 µg/L Tl
#M9377) = 130 µg/L Pb
M9376) = 6.3 µg/L Ag

10mls of
DI H2O
ex 4/10

Base

#M9396 LOQ Check
5% HCL 2-8-10
5% HNO3

LOQ Check Base SPIKE PREPARATION 3010 2X

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	Log #	LOQ (ug/L)	Std Conc (mg/L)	Amount (mL) to pipet into 1 L	
Ag	M9052	4	1000	0.2	
Al	M8967	26	10000	0.13	
As	M9058	26	1000	1.3	
Ba	M8959	1.8	1000	0.09	
Be	M9334	0.86	1000	0.043	
Ca	M8964	100	10000	0.5	
Cd	M9055	0.8	1000	0.04	
Co	M9299	8.6	1000	0.43	
Cr	M9273	4	1000	0.2	
Cu	M8961	7.6	10000	0.038	
Fe	M9219	58	10000	0.29	
Mg	M9218	22	10000	0.11	
Mn	M9332	4	1000	0.2	
Mo	M9302	2.4	1000	0.12	
Ni	M9274	4.2	1000	0.21	
Pb	M8965	9.8	10000	0.049	
Sb	M9053	28	1000	1.4	
Se	M9054	16	1000	0.8	
Tl	M9333	10	1000	0.5	
V	M9056	3.4	1000	0.17	
Zn	M9276	11.8	1000	0.59	
Na	M9280	680	10000	3.4	
K	M9222	1800	10000	9	
B	M9140	36	1000	1.8	
Si	M9121	118	1000	5.9	10 mls into 500

Exp.4/1/2010

#M9397 LOQ Check Into 500ml vol flask pipet 10 mls of #M9396.
2-9-10 Bring up to mark w. DI H2O.
5% HCL
5% HNO3

#M9398 MDL V 3050. Base std
5% HCL
5% HNO3 2-9-10

MDL Check Base SPIKE PREPARATION for 3050 2X

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	Log Book Number & Expire Date	MDL (ug/L)	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	M9052, 6/30/10	1.4	1000	0.07
Al	M8967, 5/15/10	2	10000	0.01
As	M9058, 6/30/10	10	1000	0.5
Ba	M8959, 5/15/10	0.6	1000	0.03
Be	M9334, 1/15/11	0.3	1000	0.015
Ca	M8964, 5/15/10	12	10000	0.06
Cd	M9055, 6/30/10	0.6	1000	0.03
Co	M9299, 12/30/10	1.2	1000	0.06
Cr	M9273, 12/15/10	2	1000	0.1
Cu	M8961, 5/15/10	4.8	10000	0.024
Fe	M9219, 10/15/10	24	10000	0.12
Mg	M9218, 10/15/10	10	10000	0.05
Mn	M9332, 1/15/11	1.2	1000	0.06
Mo	M9302, 12/30/10	1.2	1000	0.06
Ni	M9274, 12/15/10	1.4	1000	0.07
Pb	M8965, 5/15/10	4	10000	0.02
Sb	M9053, 6/30/10	6	1000	0.3
Se	M9054, 6/30/10	6	1000	0.3
Tl	M9333, 1/15/11	4	1000	0.2
V	M9056, 6/30/10	0.8	1000	0.04
Zn	M9276, 12/15/10	2	1000	0.1
Na	M9280, 12/15/10	400	10000	2
K	M9222, 10/30/10	800	10000	4
B	M9140, 8/30/10	18	1000	0.9
Si	M9121, 4/1/10	32	1000	1.6

10mls into 500 of 1 ml into 50
or 1ml into 50

Expires 4/1/2010

Ba

#M9396 LOQ Ch
5% HCL 2-8
5% HNO3

Page 1559

115/10 ISF
KAT #M9392 02/17/10 3020 GFAA LOQ Spiking Solution (1% HNO3)
GUE

Into a 500 mL Vol. Flask, pipet the following and bring up to volume with D.I. H2O. Exp. 05-05-10
0.02mL of 1,000 mg/L Tl (#M9333) = 40 µg/L Tl
0.2 mL of 100 mg/L Pb (#M9377) = 40 µg/L Pb
0.1mL of 10 mg/L Ag (#M9376) = 2 µg/L Ag

#M9393 02/17/10 3020 GFAA LOQ Spiking Solution: (1% HNO3)
GUE

Into a 500 mL Vol. Flask, pipet the following and bring up to volume with D.I. H2O. Exp. 05-05-10
0.065mL of 1000 mg/L Tl (#M9333) = 130 µg/L Tl
0.65mL of 100 mg/L Pb (#M9377) = 130 µg/L Pb
0.315mL of 10 mg/L Ag (#M9376) = 6.3 µg/L Ag

#M9394 MDL Check 3010 Base
5% HNO3 2-08-10
5% HCL

MDL Check Base SPIKE PREPARATION for 3010 2X calced mdl

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	Log Book Number & Expire Date	MDL (ug/L)	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	M9052, 6/30/10	2	1000	0.1
Al	M8967, 5/15/10	8	10000	0.04
As	M9058, 6/30/10	8	1000	0.4
Ba	M8959, 5/15/10	0.6	1000	0.03
Be	M9334, 1/15/11	0.26	1000	0.013
Ca	M8964, 5/15/10	30	10000	0.15
Cd	M9055, 6/30/10	0.2	1000	0.01
Co	M9299, 12/30/10	2.6	1000	0.13
Cr	M9273, 12/15/10	2	1000	0.1
Cu	M8961, 5/15/10	2.4	10000	0.012
Fe	M9219, 10/15/10	18	10000	0.09
Mg	M9218, 10/15/10	6	10000	0.03
Mn	M9332, 1/15/11	2	1000	0.1
Mo	M9302, 12/30/10	0.8	1000	0.04
Ni	M9274, 12/15/10	1.2	1000	0.06
Pb	M8965, 5/15/10	3	10000	0.015
Sb	M9053, 6/30/10	8	1000	0.4
Se	M9054, 6/30/10	4	1000	0.2
Tl	M9333, 1/15/11	4	1000	0.2
V	M9056, 6/30/10	1	1000	0.05
Zn	M9276, 12/15/10	3.6	1000	0.18
Na	M9280, 12/15/10	200	10000	1
K	M9222, 10/30/10	600	10000	3
B	M9140, 8/30/10	10	1000	0.5
Si	M9121, 4/1/10	36	1000	1.8

ex 4/10

10 ml into 500 ml

#M9397 LOQ Ch
2-9-10
5% HCL
5% HNO3

#M9398 MDL
5% HCL
5% HNO3 2-

#M9395 MDL Check Std
5% HNO3 2.9.10
5% ~~HNO3~~ HCL
2-8-10

Into 500 mL Vol flask pipet 10mL of #M9394 Bring up to mark with DI H2O
ex 4/10

3/10

M9381 02/10/10 GFAA DOD LOQ Spiking Soln: Into a 1L Vol. Flask, pipet the following and then
GVE (1% HNO3) bring up to volume with D.I. H2O.
Exp. 05-15-10 2.1mL of 10mg/L Ag (#M9376) = 21µg/L Ag
0.19mL of 1000mg/L Sb (#M9053) = 190µg/L Sb
0.52mL of 1000mg/L Se (#M9054) = 520µg/L Se
0.16mL of 1000mg/L Tl (#M9333) = 160µg/L Tl
1.3mL of 100mg/L Pb (#M9377) = 130µg/L Pb
0.54mL of 1000mg/L As (#M9058) = 540µg/L As

M9382 02/15/10 Potassium Permanganate Soln: 5g Potassium Permanganate (#M9869) dissolved
GVE into 1000mL Milli-Q H2O. Exp. 08-15-10

M9383 02/15/10 Hg Working Stds: (0.2% HNO3, HCl)
GVE 1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

M9384 02/15/10 Hg Alt Source Working Std: (0.2% HNO3, HCl)
GVE 1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

M9385 02/15/10 Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)
GVE 3.0ml of 100ug/L Hg (#M9384) into 100ml = 3.0ug/L Hg

M9386 02/15/10 Hg MRL:
GVE 0.2ml of 100ug/L Hg (#M9384) into 100ml = 0.2ug/L Hg

M9387 02/15/10 Hg Aqua Regia Reagent:
GVE "Carefully" in hood, mix 3 parts HCl (AB: 471) with 1part HNO3 (AB: 476)

M9388 02/15/10 MDL ✓ Water Hg - Into a 100mL Vol. flask, pipet 0.04mL of 100µg/L Hg
GVE (0.2% HNO3, HCl) (#M9384) and bring up to volume with D.I. H2O. Exp 02-15-11

M9389 02/15/10 LOQ ✓ Water Hg - Into a 100mL Vol. Flask, pipet 0.14mL of 100µg/L Hg
GVE (0.2% HNO3, HCl) (#M9384) and bring up to volume with D.I. H2O.

M9390 02/15/10 Hg Soil MDL Spiking Soln: Pipet 10mL of 100µg/L (#M9384 #M9387) into a 100mL
GVE (0.2% HNO3, HCl) Vol. Flask = 10µg/L Hg 02/15/10 GVE

M9391 02/15/10 TCLP Extraction Fluid #1: Fill a 20L carboy w/ 19L D.I. H2O. Add 114mL Glacial
ISK Acetic Acid (AB. 468) and 128.6mL 10N NaOH (#M9033).
Dilute to 20L with D.I. H2O and mix. The pH = 4.93 ± 0.05.

3-3-10

3/3/10

olve 100g Stannous
HCL (AB·471).
Exp. 02/04/11

19052) into a 100 mL
ith D.I. H2O.

(#M8965) into a 100mL
with D.I. H2O.

the following
e with D.I. H2O.:
µg/L Ag
µg/L Sb
60µg/L Se
50µg/L Tl
00µg/L Pb
140µg/L As

llowing and then
2O:
/L Ag
g/L Sb
µg/L Se
µg/L Tl
µg/L Pb
0µg/L As

he following and then
I. H2O:
/L Ag
µg/L Sb
0µg/L Se
50µg/L Tl
00µg/L Pb
160µg/L As

#M9373 02/03/10 Calcium 10,000 mg/L Spex CertiPrep Lot No. AC 11-223CA
GUE Expires: 01-30-11

#M9374 02/03/10 Aluminum 10,000 mg/L Spex CertiPrep Lot No. Z-11-219AL
GUE Expires: 01-30-11

#M9375 02/04/10 Stannous Chloride Reagent: Into a 1000 mL Vol. Flask, dissolve 100g Stannous Chloride (#M9130a) in 70 mL HCL (AB-471). Bring up to mark with D.I. H_2O. Exp. 02/04/11
GUE

#M9376 02/10/10 GFAA Ag Working Std. (1% HNO_3) Pipet 1.0mL of 1000 mg/L Ag (#M9052) into a 100 mL Vol. flask. Bring up to volume with D.I. H_2O. Exp. 05-30-10
GUE

#M9377 02/10/10 GFAA Pb Working Std. (1% HNO_3) Pipet 1.0mL of 10,000 mg/L ~~Ag~~ Pb (#M8965) into a 100 mL Vol. flask. Bring up to volume (2nd) with D.I. H_2O. Exp. 05-15-10
GUE

#M9378 02/10/10 GFAA MDL✓ Spiking Soln: (1% HNO_3) Exp. 05-15-10 Into a 1L Vol. flask, pipet the following and then bring up to volume with D.I H_2O.:
GUE
0.7mL of 10mg/L Ag (#M9376) = 7 µg/L Ag
0.04mL of 1000 mg/L Sb (#M9053) = 40 µg/L Sb
0.16mL of 1000 mg/L Se (#M9054) = 160 µg/L Se
0.05mL of 1000 mg/L Tl (#M9333) = 50 µg/L Tl
0.6mL of 100 mg/L Pb (#~~M8965~~ M9377 2nd) = 60 µg/L Pb
0.14mL of 1000 mg/L As (#M9058) = 140 µg/L As

#M9379 02/10/10 GFAA LOQ Spiking Soln: (1% HNO_3) Exp. 05-15-10 Into a 1L Vol. flask, pipet the following and then bring up to volume with D.I. H_2O:
GUE
2.3mL of 10mg/L Ag (#M9376) = 23 µg/L Ag
0.14mL of 1000 mg/L Sb (#M9053) = 140 µg/L Sb
0.55mL of 1000 mg/L Se (#M9054) = 550 µg/L Se
0.18mL of 1000 mg/L Tl (#M9333) = 180 µg/L Tl
2.0mL of 100 mg/L Pb (#M9377) = 200 µg/L Pb
0.47mL of 1000 mg/L As (#M9058) = 470 µg/L As

#M9380 02/10/10 GFAA DOD MDL✓ Spiking Soln: (1% HNO_3) Exp. 05-15-10 Into a 1L Vol. flask, pipet the following and then bring up to volume with D.I. H_2O:
GUE
0.6mL of 10mg/L Ag (#M9376) = 6 µg/L Ag
.06mL of 1000 mg/L Sb (#M9053) = 60 µg/L Sb
0.16mL of 1000 mg/L Se (#M9054) = 160 µg/L Se
0.05mL of 1000 mg/L Tl (#M9373) = 50 µg/L Tl
0.4mL of 100 mg/L Pb (#M9377) = 40 µg/L Pb
0.16mL of 1000 mg/L As (#M9058) = 160 µg/L As

#M9381 02
GUE

#M9361 01/27/10 GVE NaCl Hydroxylamine Sulfate Reagent - Dissolve 60g NaCl (#M9282a) and 60g Hydroxylamine Sulfate (#M9574) in 500mL Milli-Q H_2O. Exp. 07/27/10

#M9362 01/28/10 GVE Pd/Mg Matrix Modifier: Into a 50 mL Vol. flask, pipet 15mL #M9346 and 5mL of #M9301. Bring up to volume with Milli-Q H_2O. Exp. 12-30-10

#M9363 01/29/10 GVE Fisherbrand 101-1000µL Redi-Tip Pipet Tips Fisher Scientific Lot No. 09411558

#M9364 02/02/10 AMA SPLP Extraction Fluid #1 - Into a 20L carboy, add D.I. H_2O to mark, and adjust pH to 4.20 ± 0.05 with M8367. Exp. 02/02/11

#M9365 02/02/10 AMA TCLP Extraction Fluid #1 - Fill a 20L carboy with 19L D.I. H_2O. Add 11.4mL Glacial Acetic Acid (AB: 408) and 128.6mL 10N NaOH (#M9033). Dilute to 20L with D.I. H_2O and mix. The pH = 4.93 ± 0.05. Exp. 02/02/11

#M9366 02/02/10 GVE	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9367 02/03/10 GVE	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9368 02/03/10 GVE	Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 9367) into 100ml = 3.0ug/L Hg
#M9369 02/03/10 GVE	Hg MRL:	0.2ml of 100ug/L Hg (#M 9367) into 100ml = 0.2ug/L Hg
#M9370 02/03/10 GVE	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 471) with 1part HNO3 (AB: 476)

#M9371 02/03/10 GVE Hg Soil MDL Spiking Solution: 0.2% HNO_3, HCL Pipet 10mL of 100µg/L (#M9361) into a 100 mL Vol. Flask = 10µg/L Hg

#M9372 02/03/10 GVE Hg Water MDL Study: 0.2% HNO_3, HCL Pipet 5mL of (#M9371) 10µg/L Hg into a 500 mL Vol. Flask = 0.1µg/L Hg

#M9349 1/18/10 AMA — Hg Working Stds: (0.2% HNO3, HCl)
- 1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg
- 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
- 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
- 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
- 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
- 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
- 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
- 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M9350 1/18/10 AMA — Hg Alt Source Working Std: (0.2% HNO3, HCl)
- 1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
- 1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M9351 1/18/10 AMA — Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)
- 3.0ml of 100ug/L Hg (#M 9350) into 100ml = 3.0ug/L Hg

#M9352 1/18/10 AMA — Hg MRL:
- 0.2ml of 100ug/L Hg (#M 9350) into 100ml = 0.2ug/L Hg

#M9353 3 1/18/10 AMA 1/18/10 AMA — Hg Aqua Regia Reagent:
- "Carefully" in hood, mix 3 parts HCl (AB: 471) with 1part HNO3 (AB: 476)

#M9354 01/18/10 GVE — Potassium Permanganate Sol'n: 50g Potassium Permanganate (#M8169) dissolved into 1000mL Milli-Q H_2O. Exp. 07/18/10

#M9355 01/21/10 AMA — Tclp Extraction Fluid #1: Fill a 20L carboy with 19L D.I. H_2O. Add 11.4mL Glacial Acetic Acid (AB-418) and 128.6mL 10N NaOH (#M9033). Dilute to 20L with D.I. H_2O and mix. The pH= 4.93 ± 0.05

#M9356 01/27/10 GVE — Hg Working Stds: (0.2% HNO3, HCl)
- 1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg
- 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
- 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
- 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
- 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
- 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
- 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
- 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M9357 01/27/10 GVE — Hg Alt Source Working Std: (0.2% HNO3, HCl)
- 1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
- 1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M9358 01/27/10 GVE — Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)
- 3.0ml of 100ug/L Hg (#M 9357) into 100ml = 3.0ug/L Hg

#M9359 01/27/10 GVE — Hg MRL:
- 0.2ml of 100ug/L Hg (#M 9357) into 100ml = 0.2ug/L Hg

#M9360 01/27/10 GVE — Hg Aqua Regia Reagent:
- "Carefully" in hood, mix 3 parts HCl (AB: 471) with 1part HNO3 (AB: 476)

#M9361
#M9362
#M9363
#M9364
#M9365 AM
#M9366 GVE
#M9367 GVE
#M9368 GVE
#M9369 GVE
#M9370 GVE
#M9371 GVE
#M9372

pipet
up to volume
-10

#M9340 1/11/2010 AMA — Hg Working Stds: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M9341 1/11/2010 AMA — Hg Alt Source Working Std: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

-2)
olume with DI
ug/L Pb H2O.

#M9342 1/11/2010 AMA — Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)
3.0ml of 100ug/L Hg (#M9341) into 100ml = 3.0ug/L Hg

up to
Ag and

#M9343 1/11/2010 AMA — Hg MRL:
0.2ml of 100ug/L Hg (#M9341) into 100ml = 0.2ug/L Hg

#M9344 1/11/2010 AMA — Hg Aqua Regia Reagent:
"Carefully" in hood, mix 3 parts HCl (AB: 471) with 1part HNO3 (AB: 474)

#M9345 1/12/2010 AMA — Tclp Extraction Fluid #2: Into a 20L carboy, pipet 114mL Glacial Acetic Acid (AB-468) and dilute to 20L with D.I. H_2O. The pH = 2.88 ± 0.05 Exp. 1/12/2011

#M9346 01/8/10 (01/14/10 GJE) GJE — Matrix Modifier 1% Pd in 8% (wt/wt) HNO_3 + Tr HCl
Env. Express Lot No. 091705 Exp. 01-08-11

#M9347 01/14/10 GJE — Pd/Mg Matrix Modifier: Into a 50mL Vol. Flask, pipet 15mL #M9346 and 5mL of #M9301. Bring up to volume with Milli. Q H_2O. Exp. 12-30-10

#M9348 01/15/10 GJE — GFAA Dissolved MDL Study: Into a 1L Vol. Flask, pipet 0.1mL of #M8880 & bring up to volume with D.I. H_2O. Exp 04-01-10

orking std.

#M9349 02/02/10 GJE — Sb GFAA Dissolved Study: Into a 50mL Vol. Flask, pipet 0.01mL of #M8880 and bring up to volume with D.I. H_2O. Exp 04-01-10

#M9336 01/07/10 3050 ICP MDL spiking Solution (D) - put into a 1,000mL flask, pipet the following and bring up to volume w/ D7 H_2O Exp: 02-15-10
LSt

0.01 Be 1,000 mg/L (# M8840)
0.04 Ba 1,000 mg/L (# M8959)
0.02 Cu 10,000 mg/L (#M8961)
0.1 Ni 1,000 mg/L (#M9274)
0.2 Zn 1,000 mg/L (#M9276)

#M9337 01/07/10 3020 GFAA MDL Study: Pipet 0.1mL of 10,000 mg/L Pb (#M8965), 0.1mL of 1,000 mg/L Ag (#M9052) and 1mL of 1,000 mg/L Tl (#M8344) into a 100mL vol. Flask. Bring up to volume with DI H_2O = 10,000 µg/L Pb, 1,000 µg/L Ag and 10,000 µg/L Tl. Pipet 0.1mL of 10,000 µg/L Pb, 1,000 µg/L Ag and 10,000 µg/L Tl into a 1000mL vol. Flask. Bring up to volume with D.I. H_2O. Final concentration = 1 µg/L Pb, 0.1 µg/L Ag and 1 µg/L Tl.
AMA (1% HNO_3)

#M9338 1-8-10
2x 5% HNO_3
5% HCl

MRL Check Base SPIKE PREPARATION

Into a 1000 mL Volumetric Flask, pipet the following:

Log#	Analyte	(ug/L)	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
M9052	Ag	20	1000	1
M8967	Al	400	10000	2
M9058	As	10	1000	0.5
M8959	Ba	10	1000	0.5
M9334	Be	4	1000	0.2
M8964	Ca	500	10000	2.5
M9055	Cd	5	1000	0.25
M9299	Co	10	1000	0.5
M9273	Cr	10	1000	0.5
M8961	Cu	10	10000	0.05
M9219	Fe	300	10000	1.5
M9218	Mg	500	10000	2.5
M9332	Mn	10	1000	0.5
M9302	Mo	10	1000	0.5
M9624	Ni	10	1000	0.5
M8965	Pb	10	10000	0.05
M9053	Sb	20	1000	1
M9054	Se	10	1000	0.5
M9333	Tl	20	1000	1
M9056	V	10	1000	0.5
M9276	Zn	10	1000	0.5
M9140	B	10	1000	0.5
M9121	Si	10	1000	0.5
M9278	Li	20	1000	1
M9281	Sn	10	1000	0.5
M9300	Sr	10	1000	0.5
M9277	Ti	10	1000	0.5
M9105	W	10	1000	0.5
M9280	Na	1000	10000	5
M9060	K	5000	10000	25

Bring up to mark with DI H2O.

Of this Base standard pipet 10 mls into 500 ml volumetric to create working std.

Expires 5-10

#M9339 - 1-8-2010 Chemware Ultra pure PTFE Boiling Stones
RA Batch A1675-9L007

#M9340

#M9341 1/1
AMA

#M9342 1/1
AMA

#M9343 1/1
AMA

#M9344 1/1
AMA

#M9345 1/1
AMA

#M9346 0
Ga

#M9347
GE

#M9348
G

#M9329 ICSA (ICP) Into 500 ml vol flask pipet 50mL of #M9212 Bring up to mark w/ DI H_2O. ox 10/10.
1-5-10
5% HNO_3
5% HCL

#M9330 3050 ICP MDL Spiking solution (A) - put into a 1000mL Flask, pipet the following and
01/06/10 (1% HNO_3) bring up to volume w/DI H_2O. Exp. 06/30/10

0.04mL As 1,000 mg/L (#M9058)
0.04mL Se 1,000 mg/L (#M9054)

#M9331 3050 ICP MDL spiking Solution (B) - put into a 1,000mL flask, pipet the following and
01/06/10 (1% HNO_3) bring up to volume w/DI H_2O. Exp. 02/15/10

0.4mL B 1,000mg/L (#M9140)
0.02mL Cd 1,000mg/L (#M9055)
0.05mL Co 1,000mg/L (#M9272)
0.1mL Mn 1,000mg/L (#M8842)
0.05mL Mo 1,000mg/L (#M9302)
0.05mL Ag 1,000mg/L (#M9057)
0.04mL Sb 1,000mg/L (#M9053)

#M9332 01/06/10 Manganese Standard 1,000 mg/L Spex CertiPrep Lot No. 15-91 MN
GE Expires 01-15-11

#M9333 01/06/10 Thallium Standard 1,000 mg/L Spex Certiprep Lot No. 15-95TL
GE Expires 01-15-11

#M9334 01/06/10 Beryllium Standard 1,000 mg/L Spex CertiPrep Lot No. 15-127BE
GE Expires 01-15-11

#M9335 01/07/10 3050 ICP MDL Spiking solution (C) - put into a 1,000mL flask, pipet the
(1% HNO_3) following and bring up to Volume w/DI H_2O.
Exp. 05/15/10

0.02 Al 10,000mg/L (#M8967)
0.1 Cr 1,000mg/L (#M9273)
0.01 Pb 10,000mg/L (#M8965)
0.1 V 1,000mg/L (#M9056)

#M9323 12/30/09
AMA

3050 QSM ICP MDL Spiking Solution: Into a 1L vol. flask, pipet the following and bring up to volume with D.I. H2O.
(1% HNO3,HCl) Exp: 4/2010

0.25ml Ag 1000mg/L (#M9052)
0.05ml Al 10,000mg/L (#M8967)
1ml As 1000mg/L (#M9058)
0.1ml Ba 1000mg/L (#M8959)
0.05ml Be 1000mg/L (#M8840)
0.25ml Ca 10,000mg/L (#M8964)
0.05ml Cd 1000mg/L (#M9055)
0.25ml Co 1000mg/L (#M9272)
0.25ml Cr 1000mg/L (#M9273)
0.05ml Cu 10,000mg/L (#M8961)
0.1ml Fe 10,000mg/L (#M9219)
0.25ml Mg 10,000mg/L (#M9218)
0.25ml Mn 1000mg/L (#M8842)
0.25ml Mo 1000mg/L (#M8843)
0.25ml Ni 1000mg/L (#M9274)
0.025ml Pb 10,000mg/L (#M8965)
1ml Sb 1000mg/L (#M9053)
1ml Se 1000mg/L (#M9054)
1ml Tl 1000mg/L (#M8844)
0.25ml V 1000mg/L (#M9056)
0.5ml Zn 1000mg/L (#M9276)
1ml B 1000mg/L (#M9140)
5ml Si 1000mg/L (#M9121)
10ml K 10,000mg/L (#M9222)
5ml Na 10,000mg/L (#M9280)

#M9324 12/30/09
AMA

3050 QSM ICP MDL Spiking Solution: Into a 1 L vol.flask, pipet the following and bring up to volume with D.I. H2O.
(1% HNO3, HCl) Exp: 4/2010

1ml Li 1000mg/L (#M9278)
0.5ml Sn 1000mg/L (#M9279)
0.0125ml Sr 1000mg/L (#M9300)
1ml Ti 1000mg/L (#M9277)
0.5ml W 1000mg/L (#M9275)

#M9325 12/30/09 Pd/Mg Matrix Modifier: Into a 50mL Vol. Flask, pipet 15mL # M8846 and 5mL of #M9301. Bring up to volume with MilliQ H_2O. Exp. 2-13-10
GUE

#M9326 1/4/2010 TCLP Extraction fluid #2: Into a 20L carboy, pipet 114mL Glacial Acetic Acid (AB:4068) and dilute to 20L with D.I. H_2O. The pH= 2.88 ± 0.05
AMA Exp. 1/4/2011

#M9327 01/04/10 GFAA Base Std (25µg/L) (1% HNO_3, 6% HCl). Exp. 04/01/10 — Pipet 10mL of 100 µg/mL (#M8881) → 200mL = 5000 µg/L; 10mL of 5000 µg/L → 200mL = 250µg/L; 20mL of 250µg/L → 200mL = 25µg/L
GUE

#M9328 01/04/10 GFAA Alt. Source Std (10µg/L) (1% HNO_3, 6% HCl) Exp. 04/01/10 — Pipet 10mL of 10 µg/mL (#M8880) → 100mL = 1000µg/L; 10mL of 1000 µg/L Sb → 100mL = 100µg/L Sb; 20mL of 100µg/L Sb → 200mL = 10µg/L
GUE

#M9329
1-5-10
5% HN
5% HC

#M9330
01/06/10

#M9331
01/06/10

#M9332
GUE

#M9333
GUE

#M9334
GUE

#M9335

#M9316 12/29/09 Spike Sample Standard 1 Spex CertiPrep Lot No. 41-10 AS
GK Expires 12-30-10

#M9317 12-29-09 List 2 stds (working) 2nd into (5) 1 Liter Vol flask pipet
5% HNO3
5% HCL
1 -> .01mls #M9298 & .001 mls #M9275, .001mls #M9279.
10 -> .1mls #M9298 & .01mls #M9275, .01mls #M9279.
100 -> 1.0mls #M9298 & .10mls #M9275, .10mls #M9279.
1000 -> 10.0mls #M9298 + 1.0mls #M9275, 1.0mls #M9279.
10,000 100mls #M9298 & 10mls #M9275, 10mls #M9279.
Bring up to mark with DI H_2O Ex Dec 15, 2010

#M9318 12-29-09 List 2 ICV/CCV/LCSW
5% HNO3
5% HCL
Into a Liter Volumetric flask pipet 0.5mls of #M9281, #M9105, #M9278, #M9277, #M9300 bring up to mark with DI H_2O. Ex Oct 2010.

#M9319 12-29-09 Boron + Silicon working stds into (6) 250ml
5% HNO3
5% HCL
Volumetric flasks pipet the following Respectfully.
10(B) -> .025mls of #M9188.
50(B) -> .125mls of #M9188.
100(Si), 200(B) -> 0.5mls of #M9188.
500(Si), 1000(B) -> 2.50mls of #M9188.
1000(Si), 2000(B) -> 5.0mls of #M9188.
5000(Si), 10,000(B) -> 25.0mls of #M9188
Bring up to mark with DI H_2O ex 9/2010

#M9320 12-29-09 Boron + Silicon ICV/CCV/LCSW into 1 Liter 12-29-09
250ml Vol flask pipet 0.25mls #M9121, #M9140 Bring up to mark with DI H_2O ex 4/2010.

#M9321 12-15-09 ICV/LCSW/CCV DOD into 1 Liter Vol flask 5mls #M9220, 0.5mls M9121, #M9300, #M9278, 12-29-09 and #M9302, and M9140, #0.07mls #M9052, 2.0mls M9212 Bring up to mark with DI H_2O ex 4/2010.
5% HNO3
5% HCL

#M9322 ICV/LCSW/CCV DOD into 1 Liter vol flask Pipet 10mls #M9220
5% HNO3
5% HCL
2.0mls #M9212 and 0.5mls #M9302 #M9278, #M9121, #M9300 and #M9140 and .07mls #M9052 Bring up to mark with DI H_2O

04 4/2010

#M9308 12/29/09 LSF — 3051 Spiking Solution (1% HNO_3) Expires: ~~04/30/10~~ 12/29/09 LSF 05/15/10 — Into a 500mL Flask Pipet the following and ~~bring~~ 12/29/09 bring up to volume w/DI H_2O.
2.5mL Ag (#M9057) 1000 mg/L
50 mL B (#M9140) 1000 mg/L
25mL Co (#M9299) 1000 mg/L
2.5mL Cd (#M9055) 1000 mg/L
0.5mL Sb (#M9053) 1000 mg/L
50mL Mo (#M9302) 1000mg/L
50mL Mn (#M8966) 10,000 mg/L

#M9309 12/29/09 LSF — ICP spiking Solution (7min) (1% HNO_3) Expires: 05/15/10 — Into a 200mL Vol. Flask, pipet the following and bring up to volume w/DI H_2O
4.0mL of 1000 mg/L Cr (#M9273)
1mL of 10,000 mg/L Pb (#M8965)
10mL of 1,000 mg/L V (#M9056)

#M9310 12/29/09 LSF — ICP spiking solution (24min.) Expires 02/15/10 (1% HNO_3) — Into a ~~250~~ 12/29/09 LSF 250mL Vol. Flask pipet the following and bring up to volume w/DI H_2O
10mL of 1000 mg/L Ba (#M8959)
0.5mL of 1000mg/L Be (#M8840)
10mL of 10,000mg/L Cu (#M8961)
5mL of 1000 mg/L Ni (#M9274)
10mL of 10,000mg/L Zn (#M8963)

#M9311 12/29/09 AMA — Hg Working Stds: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M9312 12/29/09 AMA — Hg Alt Source Working Std: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M9313 12/29/09 AMA — Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)
3.0ml of 100ug/L Hg (#M9312) into 100ml = 3.0ug/L Hg

#M9314 12/29/09 AMA — Hg MRL:
0.2ml of 100ug/L Hg (#M9312) into 100ml = 0.2ug/L Hg

#M9315 12/29/09 AMA — Hg Aqua Regia Reagent:
"Carefully" in hood, mix 3 parts HCl (AB: 453) with 1part HNO3 (AB: 467)

#M9316
#M9317
5% H
5% H
#M9315
5% HNO
5% HCl
#M931
5% HN
5% HCl
#M93
#M932
12-15
5% HNO3
5% HCL
#M9327
5% HNO3
5% HCL

#M9304 12/28/09
AMA

3010 ICP MDL Spiking Solution: Into a 1000ml vol. flask, partially filled with D.I. H2O,
(1% HNO3, HCl) pipet the following then bring up to volume with D.I. H2O.
Exp: 4/2010

0.005ml Ag 1000mg/L (#M9052)
0.001ml Al 10,000mg/L (#M8967)
0.01ml As 1000mg/L (#M9058)
0.002ml Ba 1000mg/L (#M8959)
0.001ml Be 1000mg/L (#M8840)
0.005ml Ca 10,000mg/L (#M8964)
0.001ml Cd 1000mg/L (#M9055)
0.005ml Co 1000mg/L (#M9272)
0.005ml Cr 1000mg/L (#M9273)
0.0005ml Cu 10,000mg/L (#M8961)
0.002ml Fe 10,000mg/L (#M9219)
0.005ml Mg 10,000mg/L (#M9218)
0.005ml Mn 1000mg/L (#M8842)
0.005ml Mo 1000mg/L (#M8843)
0.005ml Ni 1000mg/L (#M9274)
0.001ml Pb 10,000mg/L (#M8965)
0.01ml Sb 1000mg/L (#M9053)
0.01ml Se 1000mg/L (#M9054)
0.01ml Tl 1000mg/L (#M8844)
0.005ml V 1000mg/L (#M9056)
0.0025ml Zn 1000mg/L (#M9276)
0.02ml B 1000mg/L (#M9140)
0.1ml Si 1000mg/L (#M9121)
0.1ml K 10,000mg/L (#M9222)
0.1ml Na 10,000mg/L (#M9280)

1/26AS

#M9305 12/28/09
AMA

3010 ICP MDL Spiking Solution: Into a 1000ml vol. flask, partially filled with D.I. H2O,
(1% HNO3, HCl) pipet the following then bring up to volume with D.I. H2O.
Exp: 4/2010

0.005ml Li 1000mg/L (#M9278)
0.02ml Sn 1000mg/L (#M9279)
0.01ml Sr 1000mg/L (#M9300)
0.02ml Ti 1000mg/L (#M9277)
0.01ml W 1000mg/L (#M9275)

1/30/10

#M9306 12/28/09
AMA

3050 ICP MDL Spiking Solution: Into a 1L vol. flask, pipet the following and bring up to volume with D.I. H2O.
(1% HNO3, HCl) Exp: 4/2010

1x Centipro
1/10

0.25ml Ag 1000mg/L (#M9052)
0.05ml Al 10,000mg/L (#M8967)
1ml As 1000mg/L (#M9058)
0.1ml Ba 1000mg/L (#M8959)
0.05ml Be 1000mg/L (#M8840)
0.25ml Ca 10,000mg/L (#M8964)
0.05ml Cd 1000mg/L (#M9055)
0.25ml Co 1000mg/L (#M9272)
0.25ml Cr 1000mg/L (#M9273)
0.025ml Cu 10,000mg/L (#M8961)
0.1ml Fe 10,000mg/L (#M9219)
0.25ml Mg 10,000mg/L (#M9218)
0.25ml Mn 1000mg/L (#M8842)
0.25ml Mo 1000mg/L (#M8843)
0.25ml Ni 1000mg/L (#M9274)
0.025ml Pb 10,000mg/L (#M8965)
1ml Sb 1000mg/L (#M9053)
1ml Se 1000mg/L (#M9054)
0.5ml Tl 1000mg/L (#M8844)
0.25ml V 1000mg/L (#M9056)
0.5ml Zn 1000mg/L (#M9276)
1ml B 1000mg/L (#M9140)
5ml Si 1000mg/L (#M9121)
5ml K 10,000mg/L (#M9222)
5ml Na 10,000mg/L (#M9280)

#M9307 12/28/09
AMA

3050 ICP MDL Spiking Solution: Into a 1L vol. flask, pipet the following and bring up to volume with D.I. H2O.
(1% HNO3,HCl) Exp: 4/2010

0.5ml Li 1000mg/L (#M9278)
0.5ml Sn 1000mg/L (#M9279)
0.125ml Sr 1000mg/L (#M9300)
1ml Ti 1000mg/L (#M9277)
0.5ml W 1000mg/L (#M9275)

~~#M9297 12/24/09~~ ~~3010 ICP Dissolved MDL Spiking Solution: Into a 1000ml volumetric flask, partially filled with D.I. H2O,~~ #M9304 12
AMA (1% HNO3, HCl) pipet the following then bring up to volume with D.I. H2O. AMA
Exp: 4/2010 12/28/09 AMA

0.005ml Li 1000mg/L (#M9278)
0.005ml Sn 1000mg/L (#M9279)
0.01ml Sr 1000mg/L (#M8736)
0.02ml Ti 1000mg/L (#M9277)
0.01ml W 1000mg/L (#M9275)

#M9298 12-28-09 Quality Control Std 21 ~~Spex~~ #12-28-09 Spex Certiprep Lot# 4/1-26AS
JH 12/30/10

#M9299 12-28-09 Cobalt 1000mg/L Spex Certiprep Lot# CL4-112CO #M9305 12/
JH 12-30-10 AMA

#M9300 12-28-09 Strontium 1000mg/L Spex Certiprep Lot# 15-92MO
~~#M9~~ JH ex 12/30/10

#M9301 12-28-09 Magnesium Nitrite Modifier Spex Certiprep
JH Lot # 1-163MG1 ex 12/30/10

#M9302 12-28-09 Molybdenum 1000mg/L Lot# ~~RLMO9~~ #12-28-09 15-92MO Spex Certiprep #M9306 12/2
JH ex 12/30/10 AMA

~~12/28/09~~ AM
~~#M9~~ #M9303 12/28/09
AMA

3010 ICP Dissolved MDL Spiking Solution: Into a 1000ml volumetric flask, partially filled with D.I. H2O,
(1% HNO3, HCl) pipet the following then bring up to volume with D.I. H2O.
Exp: 4/2010

0.005ml Li 1000mg/L (#M9278)
0.005ml Sn 1000mg/L (#M9279)
0.01ml Sr 1000mg/L (#M9300)
0.02ml Ti 1000mg/L (#M9277)
0.01ml W 1000mg/L (#M9275)

#M9307 12/
AMA

#9287 12/21/09 GJE	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#9288 12/21/09 GJE	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#9289 12/21/09 GJE	Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 9288) into 100ml = 3.0ug/L Hg
#9290 12/21/09 GJE	Hg MRL:	0.2ml of 100ug/L Hg (#M 9288) into 100ml = 0.2ug/L Hg
#9291 12/21/09 GJE	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 453) with 1part HNO3 (AB: 467)

#M9292 12/21/09 TCLP Extraction Fluid #1: Fill a 20L Carboy w/ 19L DI H_2O. Add 114mL Glacial Acetic Acid (AB.468) and 128.6mL 10N NaOH (#M9033) Dilute to 20mL w/ DI H_2O and mix. The pH = 4.93 ± 0.05.
GJE

#M9293 12/21/09 NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M9082(a)) & 60g Hydroxylamine Sulfate (#M9174) in 500mL Milli Q H_2O. Exp. 6-21-10
GJE

#M9294 12/21/09 Potassium Permanganate Soln: 50g Potassium Permanganate (#M8869) dissolved into 1000mL Milli Q H_2O. Exp. 06-21-10
GJE

#M9295 12/22/09 TCLP Extraction Fluid #1: Fill a 20L Carboy w/ 19L DI H_2O. Add 114mL Glacial Acetic Acid (AB.468) and 128.6mL 10N NaOH (#M9033). Dilute to 20mL w/ DI H_2O and mix. The pH = 4.93 ± 0.05.
GJE

#M9296 12/28/09
AMS

3010 ICP Dissolved MDL Spiking Solution: Into a 1000ml volumetric flask, partially filled with D.I. H2O, pipet the following then bring up to volume with D.I. H2O.
(1% HNO3, HCl)
Exp: 4/2010

0.005ml Ag 1000mg/L (#M9052)	0.005ml Mo 1000mg/L (#M8843)
0.002ml Al 10,000mg/L (#M8967)	0.005ml Ni 1000mg/L (#M9274)
0.02ml As 1000mg/L (#M9058)	0.001ml Pb 10,000mg/L (#M8965)
0.002ml Ba 1000mg/L (#M8959)	0.02ml Sb 1000mg/L (#M9053)
0.001ml Be 1000mg/L (#M8840)	0.02ml Se 1000mg/L (#M9054)
0.002ml Ca 10,000mg/L (#M8964)	0.02ml Tl 1000mg/L (#M8844)
0.001ml Cd 1000mg/L (#M9055)	0.005ml V 1000mg/L (#M9056)
0.005ml Co 1000mg/L (#M9272)	0.0025ml Zn 1000mg/L (#M9276)
0.005ml Cr 1000mg/L (#M9273)	0.02ml B 1000mg/L (#M9140)
0.001ml Cu 10,000mg/L (#M8961)	0.1ml Si 1000mg/L (#M9121)
0.002ml Fe 10,000mg/L (#M9219)	0.1ml K 10,000mg/L (#M9222)
0.005ml Mg 10,000mg/L (#M9218)	0.1ml Na 10,000mg/L (#M9280)
0.005ml Mn 1000mg/L (#M8842)	

#M9284 AB-468, AB 953

12-15-09

ICAP Working Standards

DOD Cal

5% HNO3,5%HCL

Standard name	Pipet the following respectively:
0.25	0.25 mls of standard 100 ug/L into 1000 ml volumetric flask = 0.25 ug/L std
0.5	0.50 mls of standard 100 ug/L into 1000ml volumentric flask= 0.50 ug/L std
1	1.0 mls of standard 100ug/L into 1000 ml volumentrc flask =1.00 ug/L std
5	5.0 mls of standard 100ug/L into 1000 ml volumentrc flask =5.00 ug/L std
10	10.0 mls of standard 100ug/L into 1000 ml volumentrc flask =10.0 ug/L std
20	20.0 mls of standard 100ug/L into 1000 ml volumentrc flask =20.0 ug/L std
50	50.0 mls of standard 100ug/L into 1000 ml volumentrc flask =50.0 ug/L std
100	1.0 mls of #M8924(ex 4/10) and 1.0 mls of #M8739 (ex 4/10) into 1000 ml volumectric flask= 100 ug/L std
500	5.0 mls of #M8924(ex 4/10) and 5.0 mls of #M8739 (ex 4/10) into 1000 ml volumetric flask= 500 ug/L std
1000	10.0 mls of #M8924(ex 4/10) and 10.0 mls of #M8739 (ex 4/10) into 1000 ml volumetric flask= 1000 ug/L std
10,000	100 10.0 mls of #M8924(ex 4/10), 1.0 mls of #M8959 Ba (ex 5/10) 1.0 mls #M8841 B (ex 2/10), 0.10 mls #M8967 Al (ex 5/10) 12-15-09 into 1000 ml volumtric flask= 10000 ug/L std
100k	10 mls of #M8961 (Cu) (ex 2/10) , 10 mls of #M8966 (Mn)(ex 2/10) , 10 mls of #M8960 (Cr)(ex 2/10) , 10 mls #M8963 (Zn)(ex 2/10), 10 mls #M8965 (Pb)(ex 2/10) , 100 mls of #M8726 (Co)(ex 12/15/2010) into 1000 ml vol flask = 100K ug/l std
100,000	10 mls of #M8845 (Mg) (ex 2/10) , 10 mls of #M8962 (Fe) (ex 2/10) ,10 mls of #M8964 (Ca)(ex 2/10),10 mls #M8967 (AL)(ex 2/10) into 1000 ml vol flask = 100,000 ug/l std
500,000	50 mls of #M8845 (Mg) (ex 2/10), 50 mls of #M8962 (Fe) (ex 2/10) ,50 mls of #M8964 (Ca)(ex 2/10), 50 mls #M8967 (AL)(ex 2/10) into 1000 ml vol flask = 500,000 ug/l std
1000k	100 mls of #M8845 (Mg) (ex 2/10), 100 mls of #M8962 (Fe) (ex 2/10), 100 mls of #M8964 (Ca)(ex 2/10), 100 mls #M8967 (AL)(ex 2/10) into 1000 ml vol flask = 1000K ug/l std
	Bring 1000 ml volumetrics up to mark with DI H2O

ex 2110

#M9285

12-21-09

ICAP Working Standards for Sodium and Potassium method

5% HNO3, 5% HNO3

Standard name	Pipet the following respectively:
0.5	0.05 mls of #M9280 and #M9222 into 1000 ml volumetric flask = 0.50 ug/L std
1	0.1 mls of #M9280 and #M9222 into 1000 ml volumetric flask = 1.0 ug/L std
5	0.5 mls of #M9280 and #M9222 into 1000 ml volumetric flask = 5.0 ug/L std
10	1.0 mls of #M9280 and #M9222 into 1000 ml volumetric flask = 10 ug/L std
50	5.0 mls of #M9280 and #M9222 into 1000 ml volumetric flask = 50 ug/L std
100	10.0 mls of #M9280 and #M9222 into 1000 ml volumetric flask = 100 ug/L std
200	20 mls of #M9280 and #M9222 into 1000 ml volumetric flask = 200 ug/L std
500	5.0 mls of #M8924(ex 4/10) and 5.0 mls of #M8739 (ex 4/10) into 1000 ml volumetric flask= 500 ug/L std
	Bring 1000 ml volumetrics up to mark with DI H2O

#M9286

12-21-09

ICAP ICV/CCV/LCSW Standards for Sodium and Potassium method

5% HNO3, 5% HNO3

Standard name	Pipet the following into a 1000 ml volumetric flask
	100 mls of M9059 and 100 mls of M9060
	Bring 1000 ml volumetric up to mark with DI H2O

#M9287 1:
GE

#M9288 1:
GE

#M9289 1:
GE

#M9290 1:
GE

#M9291 1:
GE

#M9292
LSF

#M9293 1:
GE

#M9294 1:
GE

#M9295
LSF

#M9296 1:
AMS

- 6/04/11, #M9282 2A 12-15-09 HCL AB-453 HNO3 AB-468

ICAP Working Standards

18% HNO3 + 6% HCL

4.5 min Kre 3051

Standard name	Pipet the following respectively: Into 1 Liter val
0.25	0.25 mls of standard 100 ug/L into 1000 ml volumetric flask = 0.25 ug/L std
0.5	0.50 mls of standard 100 ug/L into 1000ml volumentric flask= 0.50 ug/L std
1	1.0 mls of standard 100ug/L into 1000 ml volumentrc flask =1.00 ug/L std
5	5.0 mls of standard 100ug/L into 1000 ml volumentrc flask =5.00 ug/L std
10	10.0 mls of standard 100ug/L into 1000 ml volumentrc flask =10.0 ug/L std
20	20.0 mls of standard 100ug/L into 1000 ml volumentrc flask =20.0 ug/L std
50	50.0 mls of standard 100ug/L into 1000 ml volumentrc flask =50.0 ug/L std
100	1.0 mls of #M8924(ex 4/10) and 1.0 mls of #M8739 (ex 4/10) into 1000 ml volumectric flask= 100 ug/L std
500	5.0 mls of #M8924(ex 4/10) and 5.0 mls of #M8739 (ex 4/10) into 1000 ml volumetric flask= 500 ug/L std
1000	10.0 mls of #M8924(ex 4/10) and 10.0 mls of #M8739 (ex 4/10) into 1000 ml volumetric flask= 1000 ug/L std
10,000	100 ~~10.0~~ mls of #M8924(ex 4/10), 1.0 mls of #M8959 Ba (ex 5/10) 1.0 mls #M8841 B (ex 2/10), 0.10 mls #M8967 Al (ex 5/10) into 1000 ml volumtric flask= 10000 ug/L std ~~12-15-09~~
100k	10 ~~10~~ mls of #M8961 (Cu) (ex 2/10) , 10 mls of #M8966 (Mn)(ex 2/10) , 10 mls of #M8960 (Cr)(ex 2/10) , 10 mls #M8963 (Zn)(ex 2/10), 10 mls #M8965 (Pb)(ex 2/10) , 100 mls of #M8726 (Co)(ex 12/15/2010) into 1000 ml vol flask = 100K ug/l std
100,000	10 mls of #M8845 (Mg) (ex 2/10) , 10 mls of #M8962 (Fe) (ex 2/10) ,10 mls of #M8964 (Ca)(ex 2/10),10 mls #M8967 (AL)(ex 2/10) into 1000 ml vol flask = 100,000 ug/l std
500,000	50 mls of #M8845 (Mg) (ex 2/10), 50 mls of #M8962 (Fe) (ex 2/10) ,50 mls of #M8964 (Ca)(ex 2/10), 50 mls #M8967 (AL)(ex 2/10) into 1000 ml vol flask = 500,000 ug/l std
1000k	100 mls of #M8845 (Mg) (ex 2/10), 100 mls of #M8962 (Fe) (ex 2/10), 100 mls of #M8964 (Ca)(ex 2/10), 100 mls #M8967 (AL)(ex 2/10) into 1000 ml vol flask = 1000K ug/l std

Bring 1000 ml volumetrics up to mark with DI H2O

ex 2110

#M2833 2A 12-15-09 ~~HCL AB-453~~ HNO3 AB-468

ICAP Working Standards

20% HNO3

7+24 Kre 3051

Standard name	Pipet the following respectively:
0.25	0.25 mls of standard 100 ug/L into 1000 ml volumetric flask = 0.25 ug/L std
0.5	0.50 mls of standard 100 ug/L into 1000ml volumentric flask= 0.50 ug/L std
1	1.0 mls of standard 100ug/L into 1000 ml volumentrc flask =1.00 ug/L std
5	5.0 mls of standard 100ug/L into 1000 ml volumentrc flask =5.00 ug/L std
10	10.0 mls of standard 100ug/L into 1000 ml volumentrc flask =10.0 ug/L std
20	20.0 mls of standard 100ug/L into 1000 ml volumentrc flask =20.0 ug/L std
50	50.0 mls of standard 100ug/L into 1000 ml volumentrc flask =50.0 ug/L std
100	1.0 mls of #M8924(ex 4/10) and 1.0 mls of #M8739 (ex 4/10) into 1000 ml volumectric flask= 100 ug/L std
500	5.0 mls of #M8924(ex 4/10) and 5.0 mls of #M8739 (ex 4/10) into 1000 ml volumetric flask= 500 ug/L std
1000	10.0 mls of #M8924(ex 4/10) and 10.0 mls of #M8739 (ex 4/10) into 1000 ml volumetric flask= 1000 ug/L std
10,000	100 ~~10.0~~ mls of #M8924(ex 4/10), 1.0 mls of #M8959 Ba (ex 5/10) 1.0 mls #M8841 B (ex 2/10), 0.10 mls #M8967 Al (ex 5/10) into 1000 ml volumtric flask= 10000 ug/L std ~~12-15-09~~
100k	10 ~~10~~ mls of #M8961 (Cu) (ex 2/10) , 10 mls of #M8966 (Mn)(ex 2/10) , 10 mls of #M8960 (Cr)(ex 2/10) , 10 mls #M8963 (Zn)(ex 2/10), 10 mls #M8965 (Pb)(ex 2/10) , 100 mls of #M8726 (Co)(ex 12/15/2010) into 1000 ml vol flask = 100K ug/l std
100,000	10 mls of #M8845 (Mg) (ex 2/10) , 10 mls of #M8962 (Fe) (ex 2/10) ,10 mls of #M8964 (Ca)(ex 2/10),10 mls #M8967 (AL)(ex 2/10) into 1000 ml vol flask = 100,000 ug/l std
500,000	50 mls of #M8845 (Mg) (ex 2/10), 50 mls of #M8962 (Fe) (ex 2/10) ,50 mls of #M8964 (Ca)(ex 2/10), 50 mls #M8967 (AL)(ex 2/10) into 1000 ml vol flask = 500,000 ug/l std
1000k	100 mls of #M8845 (Mg) (ex 2/10), 100 mls of #M8962 (Fe) (ex 2/10), 100 mls of #M8964 (Ca)(ex 2/10), 100 mls #M8967 (AL)(ex 2/10) into 1000 ml vol flask = 1000K ug/l std

Bring 1000 ml volumetrics up to mark with DI H2O

ex 2/10

/200, 5-2010, 2010, 010, 010, 2010, -2010, 2-15-2010, ONA ex 12-15-2010

#M9266 12-11-09 Yttrium 10mg/ml Env Ex lot # 0931001 ex 6/04/11 #M9282 12-15-09 HCL AB-453 HNO3 AB-468

#M9267 12/14/09 ANA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9268 12/14/09 ANA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9269 12/14/09 ANA	Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9268) into 100ml = 3.0ug/L Hg
#M9270 12/14/09 ANA	Hg MRL:	0.2ml of 100ug/L Hg (#M9268) into 100ml = 0.2ug/L Hg
#M9271 12/14/09 ANA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 453) with 1part HNO3 (AB: 468)

#M9272 12-14-09 Co 1000 mg/L Spex Certiprep lot # CL4-112CO ex 12/15/2010.

#M9273 12-14-09 Cr 1000 mg/L Spex Certiprep lot # ~~CL4~~ CL4-135CR ex 12-15-2010.

#M9274 12-14-09 Ni 1000mg/L Spex Certiprep lot # 15-125NI ex 12-15-2010.

#M9275 12-14-09 W 1000mg/L Spex Certiprep lot # 15-112W ex 12-15-2010.

#M9276 12-14-09 Zn 1000mg/L Spex Certiprep lot # 15-992n ex 12-15-2010.

#M9277 12-14-09 Ti 1000 mg/L Spex Certiprep lot # 15-987T ex 12-15-2010.

#M9278 12-14-09 Li 1000 mg/L Spex Certiprep lot # 15-31LI ex 12-15-2010.

#M9279 12-14-09 Sn 1000 mg/L Spex Certiprep lot # CL4-127SN ex 12-15-2010

#M9280 12-14-09 Sodium 10,000 mg/L Spex Certiprep lot # AC11-190NA ex 12-15-2011

#M9281 12-14-09 Tin 1000 mg/L Fisher lot # 091695 ex 04/2011

#M9283 12-15-09 ~~HCL AB-453~~ ~~12-15-09~~ HNO3 AB-468

M9256 11/30/09 NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (M9082(a)) and 60g
AMA Hydroxylamine sulfate (M9174) in 500mL
Milli-Q H_2O. Exp. 5/30/10

M9257 12/02/09 Mercury 1000 mg/L Spex CertiPrep Lot No. CL4-96HG
GE Exp. 11-30-10

M9258 12-3-09 ICSAB Into 500 ml vol pipet 50mls of M9212 +
2.5mls of M9188 or M8924 Bring up to mark with DI H_2O
20% HNO_3 exp April 30, 200.
20% HCl

M9259 12/4/09 TCLP Extraction Fluid #1: Fill a 20L carboy with 19L D.I. H_2O. Add 114mL Glacial
AMA Exp. 12/4/10 Acetic Acid (AB-468) and 128.6mL 10N NaOH (M9033).
Dilute to 20L with D.I. H_2O and mix. The pH = 4.93 ± 0.05.

M9260 12-8-09	Hg Working Stds: (0.2% HNO_3, HCl)	1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
M9261 12-8-09	Hg Alt Source Working Std: (0.2% HNO_3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
M9262 12-8-09	Hg ICV/CCV/LCSW: (0.2% HNO_3, HCl)	3.0ml of 100ug/L Hg (#M9261) into 100ml = 3.0ug/L Hg
M9263 12-8-09	Hg MRL:	0.2ml of 100ug/L Hg (#M9261) into 100ml = 0.2ug/L Hg

M9264 12/10/09 TCLP Extraction Fluid #1: Fill a 20L carboy w/19L D.I. H_2O. Add 114ml Glacial Acetic Acid
LJK (AB-468) and 128.6ml 10N NaOH (#M9033). Dilute to 20L w/D.I. H_2O
and mix. The pH = 4.93 ± 0.05.

M9265 12-10-09 10N NaOH Into 1 Liter Vol/flask weigh 400g. NaOH
(#W22703) Bring up to mark with DI H_2O Exp 12-10-10.

#M9244 11-18-09 GLE	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9245 11-18-09 GLE	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9246 11-18-09 GLE	Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 9245) into 100ml = 3.0ug/L Hg
#M9247 11-18-09 GLE	Hg MRL:	0.2ml of 100ug/L Hg (#M 9245) into 100ml = 0.2ug/L Hg
#M9248 11-18-09 GLE	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 453) with 1part HNO3 (AB: 467)
#M9249 11-18-09 GLE	Hydroxylamine Sulfate Fisher Scientific Lot No. 086451 f.w. 164.14 500g	
#M9250 11/24/09 TSF	TCLP Extraction Fluid #1: Fill a 20L carboy w/19L DI H_2O. Add 114mL Glacial Acetic Acid (AB. 468) and 128.6mL 10N NaOH (#M9033) Dilute to 20mL w/DI H_2O and mix. The pH = 4.93 ± 0.05.	
#M9251 11/30/09 AMA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9252 11/30/09 AMA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9253 11/30/09 AMA	Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9252) into 100ml = 3.0ug/L Hg
#M9254 11/30/09 AMA	Hg MRL:	0.2ml of 100ug/L Hg (#M9252) into 100ml = 0.2ug/L Hg
#M9255 11/30/09 AMA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 453) with 1part HNO3 (AB: 467)

#M9256 AMA

#M9257 GLE

#M925 D 20% 20%

#M9232 11/02/09 7470 LOQ ✓: Into a 25mL Vol. flask, pipet 16.25mL #M9226 & bring up to volume with Milli-Q water.
GLE

#M9233 11/03/09 TCLP Extraction Fluid #1: Fill a 20L carboy w/19L DI H_2O. Add 114mL Glacial Acetic Acid (AB.446) and 128.6mL 10N NaOH (#M9033) Dilute to 20mL w/DI H_2O and mix. The pH = 4.93 ± 0.05.
LSF

#M9234 11/06/09 GFAA Working Base Std (1000µg/L) (1% HNO_3) Pipet 10mL of #M8881 into 1L Vol. Flask & bring up to volume with Milli-Q H_2O. Exp 4-1-10
GLE

#M9235 11/06/09 GFAA Alt. Source Working Std (200µg/L) (1% HNO_3) Pipet 20mL of #M8880 into a 1L Vol. Flask & bring up to volume with Milli-Q H_2O Exp. 4-1-10
GLE

#M9236 11/06/09 GFAA Base Std (25µg/L) (1% HNO_3) Pipet 25mL of #M9234 into a 1L Vol. Flask and bring up to volume with Milli-Q H_2O. Exp 04-01-10
GLE

#M9237 11/06/09 GFAA Alt. Source Std (10µg/L) (1% HNO_3) Pipet 50mL of #M9235 into a 1L Vol. Flask and bring up to volume with Milli-Q H_2O. Exp. 04-01-10
GLE

#M9238 11/09/09 Hg Working Stds: (0.2% HNO_3, HCl)
GLE
1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M9239 11/09/09 Hg Alt Source Working Std: (0.2% HNO_3, HCl)
GLE
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M9240 11/09/09 Hg ICV/CCV/LCSW: (0.2% HNO_3, HCl)
GLE
3.0ml of 100ug/L Hg (#M9239) into 100ml = 3.0ug/L Hg

#M9241 11/09/09 Hg MRL:
GLE
0.2ml of 100ug/L Hg (#M9239) into 100ml = 0.2ug/L Hg

#M9242 11/09/09 NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M9082a) and 60g Hydroxylamine Sulfate (#M9174) in 500mL Milli-Q H_2O. (Exp. 06-09-10)
GLE

M9243 11/11/09 TCLP Extraction Fluid #1: Fill a 20L carboy w/19L DI H_2O. Add 114mL Glacial Acetic Acid (AB.446) and 128.6mL 10N NaOH (#M9033) Dilute to 20mL w/DI H_2O and mix. The pH = 4.93 ± 0.05.
LJF

#M9218 10/28/09 GLE — Magnesium 10,000 mg/L Spex CertiPrep Assurance Lot No. Z11-158 MG
Expires: 10-15-10

#M9219 10/28/09 GLE — Iron 10,000 mg/L Spex CertiPrep Assurance Lot No. A12-11FE
Expires: 10-15-10

#M9220 10/28/09 GLE — Spike Sample Standard 1 Spex CertiPrep Lot No. 41-10AS
Expires: 10-15-10

#M9221 10/28/09 GLE — Hafnium 1000 mg/L Spex Certiprep Lot No. 14-159HF
Expires: 10-15-10

#M9222 10/28/09 GLE — Potassium 10,000 mg/L Spex CertiPrep Lot No. AC11-228K
Exp. 10-30-10

#M9223 11/02/09 GLE	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9224 11/02/09 GLE	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9225 11/02/09 GLE	Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 9224) into 100ml = 3.0ug/L Hg
#M9226 11/02/09 GLE	Hg MRL:	0.2ml of 100ug/L Hg (#M9224) into 100ml = 0.2ug/L Hg
#M9227 11/02/09 GLE	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 453) with 1part HNO3 (AB: 467)

#M9228 11/02/09 GLE — Potassium Permanganate Soln: 50g Potassium Permanganate (#M8969) dissolved into 1000mL Milli-Q H2O.

#M9229 11/02/09 GLE — 7471 LOD ✓: (0.2% HNO3, HCl) Into a 25mL vol. flask, pipet 3.75mL of #M9226 & bring up to volume with Milli-Q water

#M9230 11/02/09 GLE — 7471 LOQ ✓: (0.2% HNO3, HCl) Into a 25mL Vol. flask, pipet 11.25mL of #M9226 & bring up to volume with Milli-Q water.

#M9231 11/02/09 GLE — 7470 LOD ✓: (0.2% HNO3, HCl) Into a 25mL Vol. flask, pipet 5.0mL of #M9226 & bring up to volume with Milli-Q water

#M9232 11/02 GLE

M9233 11/0 LSF

#M9234 11/0 GLE

#M9235 11/ GLE

#M9236 11/ GLE

#M9237 11/ GLE

#M9238 11/ GLE

#M9239 11/09 GLE

#M9240 11/09 GLE

#M9241 11/0 GLE

#M9242 11/0 GLE

#M9205 10/19/09 GJE	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9206 10/19/09 GJE	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9207 10/19/09 GJE	Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9206) into 100ml = 3.0ug/L Hg
#M9208 10/19/09 GJE	Hg MRL:	0.2ml of 100ug/L Hg (#M 9206) into 100ml = 0.2ug/L Hg
#M9209 10/19/09 GJE	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 453) with 1part HNO3 (AB: 467)

#M9210 10/19/09 NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (M9032(A)) and 60g Hydroxylamine Sulfate (M9174) in 500mL Milli-Q-H_2O
AMA
Exp. 4/19/10

#M9211 10/21/09 TCLP Extraction Fluid: Fill a 2L carboy w/ 19L D.I H_2O. Add 114mL Glacial Acetic Acid (AB. 446) and 128.6mL 10N NaOH (M9195). Dilute to 20L w/ DI H_2O and mix.
The pH = 4.93 ± 0.05

#M9212 10-21-09 ICL-500-L Spex Env. Express lot # 09-3031 ex 10/10
2

#M9213 10/26/09 GJE	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9214 10/26/09 GJE	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9215 10/26/09 GJE	Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 9214) into 100ml = 3.0ug/L Hg
#M9216 10/26/09 GJE	Hg MRL:	0.2ml of 100ug/L Hg (#M 9214) into 100ml = 0.2ug/L Hg
#M9217 10/26/09 GJE	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 453) with 1part HNO3 (AB: 467)

#M9195 10/07/09 TCLP Extraction Fluid #1: Fill a 20L carboy with 19L D.I. H_2O. Add 114mL (Glacial Acetic Acid (AB:446) and 128.6mL 10N NaOH (M9185). Dilute to 20L with D.I. H_2O and mix. The pH= 4.93 ± 0.05
AMA

#M9196 10/09/09 Turbidity Working Stds: Into 20mLs pipet from #M8730 (200 NTU)
GAE
Gel Ex Stds:
4.85 — 2.0mL into 18mL D.I. H_2O = 20 NTU
57.6 — 10mL into 10mL D.I. H_2O = 100 NTU
542 — 20mL into 0mL D.I H_2O: 200 NTU
(Exp 12/10)

#M9197 10/13/09 1N HCl for TCLP: Into a 1L Vol. flask, partially filled w/ milli-Q H_2O, add 83mL of conc. HCL (AB:460) and bring up to volume with milliQ H_2O.
LSF

#M9198 10/14/09 Potassium Persulfate: 50g Potassium Persulfate (#M9010) dissolved into 1000mL D.I. H_2O. Exp. 04/14/10
GAE

#M9199 10/14/09 Hg Working Stds: (0.2% HNO3, HCl)
GAE
1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M9200 10/14/09 Hg Alt Source Working Std: (0.2% HNO3, HCl)
GAE
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M9201 10/14/09 Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)
GAE
3.0ml of 100ug/L Hg (#M) into 100ml = 3.0ug/L Hg

#M9202 10/14/09 Hg MRL:
GAE
0.2ml of 100ug/L Hg (#M) into 100ml = 0.2ug/L Hg

#M9203 10/14/09 Hg Aqua Regia Reagent:
GAE
"Carefully" in hood, mix 3 parts HCl (AB: 453) with 1part HNO3 (AB: 460)

#M9204 10/14/09 TCLP Extraction Fluid #1: Fill a 20L carboy w/ 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB:446) and 128.6mL 10N NaOH (M9185). Dilute to 20L w/ RI H_2O and mix. The pH = 4.93 ± 0.05
LSF

#M9205 10/1
GAE

#M9206 10/19
GAE

#M9207 10/1
GAE

#M9208 10/19
GAE

#M9209 10/19
GAE

#M9210 10/1
AMA

#M9211 10

#M9212

#M9213
GAE

#M9214 10
GAE

#M9215 10/
GAE

#M9216 10/
GAE

#M9217 10/2

#M9185 GE 10N NaOH: Into a 1L Vol. Flask, partially filled with D.I. H_2O, dissolve 400g NaOH (#W22141) and bring up to volume with D.I. H_2O. Exp. 09/23/10
09/23/09

M9184 Working stds Ag Dnto 3 1000 ml Vol flasks pipet respectively
9.24.09
5% HNO_3
5% HCL
1ug/L => 0.001 mls of M9052
10ug/L => 0.01 mls of M9052
100ug/L => 0.1 mls of M9052
Bring up to mark with DI H_2O ex 6/2010

M9187 9-24-09 ICV/CCV Std Ag Dnto 500 ml Vol flask pipet 5.0 mls of #M9184
5% HNO_3 Bring up to mark with DI H_2O. ex 8/2010.
5% HCL

#M9188 Spex Certiprep QC-7 Lot# 6-123-CS ex 9/2010.
9-25-09

#M9189 GE GFAA LDR Study Standard 1% HNO_3 Into a 200mL Vol. flask, pipet 0.6mL of #M8581 and bring up to volume. Exp. 04-01-10
09/29/09

#M9190 GE 10/05/09	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9191 GE 10/05/09	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9192 GE 10/05/09	Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 9191) into 100ml = 3.0ug/L Hg
#M9193 GE 10/05/09	Hg MRL:	0.2ml of 100ug/L Hg (#M 9191) into 100ml = 0.2ug/L Hg
#M9194 GE 10/05/09	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 453) with 1part HNO3 (AB: 460)

#M9183 3051 LOD
9-23-09

M9183

3051LOD Base SPIKE PREPARATION

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	Log #	LOD (ug/L)	Std Concmount (mg/L)	(mL) to pipet into 1 L
Ag	M9052	1.1	1000	0.055
Al	M8967	8	**10000**	0.04
Ba	M8959	0.5	1000	0.025
Be	M8840	0.2	1000	0.01
Cd	M9055	0.12	1000	0.006
Co	M8726	1.1	1000	0.055
Cr	M8725	1.4	1000	0.07
Cu	M8961	1.4	**10000**	0.007
Mn	M8842	0.4	1000	0.02
Mo	M8843	0.7	1000	0.035
Ni	M8728	2.9	1000	0.145
Pb	M8734	1.2	1000	0.06
V	M8056	0.9	1000	0.045
Zn	M8731	0.5	1000	0.025
B	M9140	6	1000	0.3

Of this Base standard pipet 10 mls into 500 ml volumetric.

12/09
~~EX 01 2010~~ 9-23-09

#M9185
09/23/09

#M918
9-24-09
5
5

#M918
5% HNO
5% HCL

#M9184 3051 LOQ
9-23-09

M9184

3051LOQ Base SPIKE PREPARATION

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	Log #	LOD (ug/L)	Std Concmount (mg/L)	(mL) to pipet into 1 L
Ag	M9052	3.6	1000	0.18
Al	M8967	28	**10000**	0.14
Ba	M8959	1.7	1000	0.085
Be	M8840	0.66	1000	0.033
Cd	M9055	0.39	1000	0.0195
Co	M8726	3.8	1000	0.19
Cr	M8725	4.8	1000	0.24
Cu	M8961	4.8	**10000**	0.024
Mn	M8842	2.2	1000	0.11
Mo	M8843	2.5	1000	0.125
Ni	M8728	9.6	1000	0.48
Pb	M8734	4.1	1000	0.205
V	M8056	12	1000	0.6
Zn	M8731	21	1000	1.05
B	M9140	18	1000	0.9

Of this Base standard pipet 10 mls into 500 ml volumetric

EY 12-09
~~EX 01 2010~~ 9-23-09

#M9173 09/17/09 GLE — ICP Spiking Solution (24 mos hold) (1% HNO_3)
Into a 250mL Vol. Flask, pipet the following and bring up to volume with D.I. H_2O (Exp 12/15/09)
20.0mL of 1000mg/L Ba (#M8859)
0.5mL of 1000mg/L Be (#M8840)
10.0mL of 10000mg/L Cu (#M8961)
5.0mL of 1000mg/L Ni (#M8728)
10.0mL of 10000mg/L Zn (#M8963)

#M9174 09/17/09 GLE — Hydroxylamine Sulfate Fisher Lot No. 086451 f.w. 164.14

#M9175 09/21/09 GLE — Hg Working Stds: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M9176 09/21/09 GLE — Hg Alt Source Working Std: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M9177 09/21/09 GLE — Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)
3.0ml of 100ug/L Hg (#M 9176) into 100ml = 3.0ug/L Hg

#M9178 09/21/09 GLE — Hg MRL:
0.2ml of 100ug/L Hg (#M 9176) into 100ml = 0.2ug/L Hg

#M9179 09/21/09 GLE — Hg Aqua Regia Reagent:
"Carefully" in hood, mix 3 parts HCl (AB: 445) with 1part HNO3 (AB: 454)

#M9180 09/21/09 GLE — NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M8517(A)) and 60g Hydroxylamine Sulfate (#M9174) in 500mL Milli-Q H_2O. (Exp 3-21-10)

#M9181 09/22/09 GLE — Nickel Nitrate (1% Ni in 2% HNO_3) Alfa-Aesar Lot No. 93-096500T

#M9182 09/23/09 GLE — TCLP Extraction Fluid #1: Fill a 20L carboy w/ 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (A.B446) and 128.6mL 10N NaOH (#M9033) Dilute to 20mL w/ DI H_2O and Mix. The pH = 4.93 ± 0.05

#M9170 9/14/09 LOQ
AMA Base Std.
5% HNO_3 (water)
5% HCl

#M9170

LOQ Check Base SPIKE PREPARATION

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	Log #	LOQ (ug/L)	Std Conc (mg/L)	mount (mL) to pipet into 1 L	
Ag	M9052	3.2	1000	0.16	
Al	M8967	24	**10000**	0.12	
As	M9058	9.9	1000	0.495	
Ba	M8959	1.6	1000	0.08	
Be	M8840 2/10	0.41	1000	0.0205	
Ca	M8964	29	**10000**	0.145	
Cd	M9055	0.53	1000	0.0265	
Co	M8726 12/09	1.1	1000	0.055	
Cr	M8725 12/09	3	1000	0.15	
Cu	M8961	6.3	**10000**	0.0315	
Fe	M8962	25	**10000**	0.125	
Mg	M8845	22	**10000**	0.11	
Mn	M8842 2/10	6.5	1000	0.325	
Mo	M8843 2/10	1	1000	0.05	
Ni	M8728 12/09	3.5	1000	0.175	
Pb	M8734 12/09	4.9	1000	0.245	
Sb	M9053	11	1000	0.55	
Se	M9054	7.7	1000	0.385	
Tl	M8844 2/10	5.1	1000	0.255	
V	M9056	3	1000	0.15	
Zn	M8731 12/09	1.6	1000	0.08	
Na	M8738 12/09	640	**10000**	3.2	
K	M8737 12/09	470	**10000**	2.35	
B	M9140	20	1000	1	
Si	M9121	51	1000	2.55	
Li	M8727 12/09	7.6	1000	0.38	Of this Base standard pipet 10 mls into 500 ml volumetric.
Sn	M8732 12/09	7.3	1000	0.365	
Sr	M8736 12/09	12	1000	0.6	
Ti	M8735 12/09	22	1000	1.1	
W	M8733 12/09	32	1000	1.6	EX 01-2010

#M9171 09/14/09 LOQ Base Std
AMA (water)
5% HNO_3
5% HCl

#M9171

LOQ Check Base SPIKE PREPARATION

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	Log #	LOQ (ug/L)	Std Conc (mg/L)	mount (mL) to pipet into 1 L	
Ag	M9052	1	1000	0.05	
Al	M8967	7	**10000**	0.035	
As	M9058	3.1	1000	0.155	
Ba	M8959	0.5	1000	0.025	
Be	M8840 2/10	0.12	1000	0.006	
Ca	M8964	9	**10000**	0.045	
Cd	M9055	0.16	1000	0.008	
Co	M8726 12/09	0.3	1000	0.015	
Cr	M8725 12/09	1	1000	0.05	
Cu	M8961	1.9	**10000**	0.0095	
Fe	M8962	8	**10000**	0.04	
Mg	M8845	7	**10000**	0.035	
Mn	M8842 2/10	1.9	1000	0.095	
Mo	M8843 2/10	0.3	1000	0.015	
Ni	M8728 12/09	1	1000	0.05	
Pb	M8734 12/09	1.5	1000	0.075	
Sb	M9053	3	1000	0.15	
Se	M9054	2.3	1000	0.115	
Tl	M8844 2/10	1.5	1000	0.075	
V	M9056	0.9	1000	0.045	
Zn	M8731 12/09	0.5	1000	0.025	
Na	M8738 12/09	190	**10000**	0.95	
K	M8737 12/09	140	**10000**	0.7	
B	M9140	6	1000	0.3	
Si	M9121	15	1000	0.75	
Li	M8727 12/09	2.3	1000	0.115	Of this Base standard pipet 10 mls into 500 ml volumetric.
Sn	M8732 12/09	2.2	1000	0.11	
Sr	M8736 12/09	4	1000	0.2	
Ti	M8735 12/09	7	1000	0.35	
W	M8733 12/09	9	1000	0.45	EX 01-2010

#M9172 9/16/09 TCLP Extraction Fluid #2: Into a 20L carboy, pipet 11.4mL Glacial Acetic Acid (AB-446) and dilute to 20L with D.I. H_2O. The pH = 2.88 ± 0.05. Exp. 9/16/10
AMA

#M9174 6
#M9175 6
#M9176 G
#M9177 GvE
#M9178 GvE
#M9179 GvE
#M9180 09/21/09 GvE
#M9181 09/22/09 Gv
#M9182 09/23/09 JF

#M9163 LOD Base Std. (Soil)
9/11/09 tma

5% HNO_3 / HCL

#M9162

LOQ Check Base SPIKE PREPARATION

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	Log #	LOD (ug/L)	Std Concmount (mg/L)	(mL) to pipet into 1 L	
Ag	M9052	0.9	1000	0.045	
Al	M8967	3	10000	0.015	
As	M9058	3	1000	0.15	
Ba	M8959	0.7	1000	0.035	
Be	M8840 2/10	0.2	1000	0.01	
Ca	M8964	14	10000	0.07	
Cd	M9055	0.2	1000	0.01	
Co	M8726 12/09	0.4	1000	0.02	
Cr	M8725 12/09	1	1000	0.05	
Cu	M8961	2.3	10000	0.0115	
Fe	M8962	15	10000	0.075	
Mg	M8845	4	10000	0.02	
Mn	M8842 2/10	1.3	1000	0.065	
Mo	M8843 2/10	0.4	1000	0.02	
Ni	M8728 12/09	0.5	1000	0.025	
Pb	M8734 12/09	1	1000	0.05	
Sb	M9053	2	1000	0.1	
Se	M9054	3	1000	0.15	
Tl	M8844 2/10	2	1000	0.1	
V	M9056	1	1000	0.05	
Zn	M8731 12/09	1	1000	0.05	
Na	M8738 12/09	100	10000	0.5	
K	M8737 12/09	200	10000	1	
B	M9140	6	1000	0.3	
Si	M9121	21	1000	1.05	
Li	M8727 12/09	3	1000	0.15	Of this Base standard pipet 10 mls into 500 ml volumetric.
Sn	M8732 12/09	3	1000	0.15	
Sr	M8736 12/09	0.7	1000	0.035	
Ti	M8735 12/09	3	1000	0.15	
W	M8733 12/09	5	1000	0.25	EX 01-2010

#M9164 GLE 9/14/09 — Hg Working Stds: (0.2% HNO3, HCl)

1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M9165 GLE 09/14/09 — Hg Alt Source Working Std: (0.2% HNO3, HCl)

1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M9166 GLE 09/14/09 — Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)

3.0ml of 100ug/L Hg (#M9165) into 100ml = 3.0ug/L Hg

#M9167 GLE 09/14/09 — Hg MRL:

0.2ml of 100ug/L Hg (#M9165) into 100ml = 0.2ug/L Hg

#M9168 GLE 09/14/09 — Hg Aqua Regia Reagent:

"Carefully" in hood, mix 3 parts HCl (AB: 445) with 1part HNO3 (AB: 454)

#M9169 GLE 09/14/09 — Potassium Permanganate Soln: 50g Potassium Permanganate (#M8969) dissolved into 1000 mL Milli-Q H_2O Exp. 3/14/10

#M9159 09/09/09 Potassium and Sodium Icp working stds. using a 200mL vol. flask for each std.
AM pipet:

5% HNO_3
5% HCL
Bring up to mark with D.I. H_2O

0.5mg/L → 0.01 mLs of M8737 and M8738
1.0 mg/L → 0.02 mLs of M8737 and M8738
5.0 mg/L → 0.1mLs of M8737 and M8738
10.0 mg/L → 0.2mLs of M8737 and M8738
50.0 mg/L → 1.0mLs of M8737 and M8738
100.0 mg/L → 2.0 mLs of M8737 and M8738
200.0 mg/L → 4.0 mLs of M8737 and M8738 JX 12/09

#M9160 9-10-09 Potassium & Sodium ICV/CCV/LCSW into 500 ml Vol. flask
AM pipet 100mLs from M9060 & M9059 Bring up to mark
5% HNO_3 with DI H_2O. JX 6.0010.
5% HCL

M9161 09-11-09 TCLP Extraction Fluid #1: Fill a 2L Carboy w/1gL D.I. H_2O. Add 11.4mL Glacial Acetic
ISF Acid (A·6446) and 128.6mL 1ON NaOH (#M9033). Dilute to 20L w/DI H_2O and mix. The pH = 4.93 ± 0.05

#M9162 09/11/09 LOQ
AM Base Std.
(Soil)
5% HNO_3/HCL

#M9162

LOQ Check Base SPIKE PREPARATION

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	Log #	LOQ (ug/L)	Std Concmount (mg/L)	(mL) to pipet into 1 L
Ag	M9052	2.9	1000	0.145
Al	M8967	9	10000	0.045
As	M9058	11	1000	0.55
Ba	M8959	2.2	1000	0.11
Be	M8840 2/10	0.67	1000	0.0335
Ca	M8964	43	10000	0.215
Cd	M9055	0.6	1000	0.03
Co	M8726 12/09	1.2	1000	0.06
Cr	M8725 12/09	2	1000	0.1
Cu	M8961	7.6	10000	0.038
Fe	M8962	48	10000	0.24
Mg	M8845	14	10000	0.07
Mn	M8842 2/10	4.5	1000	0.225
Mo	M8843 2/10	1.4	1000	0.07
Ni	M8728 12/09	1.8	1000	0.09
Pb	M8734 12/09	5	1000	0.25
Sb	M9053	7	1000	0.35
Se	M9054	9	1000	0.45
Tl	M8844 2/10	7	1000	0.35
V	M9056	2	1000	0.1
Zn	M8731 12/09	4	1000	0.2
Na	M8738 12/09	300	10000	1.5
K	M8737 12/09	500	10000	2.5
B	M9140	19	1000	0.95
Si	M9121	71	1000	3.55
Li	M8727 12/09	11	1000	0.55
Sn	M8732 12/09	8	1000	0.4
Sr	M8736 12/09	2.33	1000	0.1165
Ti	M8735 12/09	11	1000	0.55
W	M8733 12/09	15	1000	0.75

Of this Base standard pipet 10 mls into 500 ml volumetric.

EX 01-2010

#M9148 09/02/09 GE	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9149 09/02/09 GE	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9150 09/02/09 GE	Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 9149) into 100ml = 3.0ug/L Hg
#M9151 09/02/09 GE	Hg MRL:	0.2ml of 100ug/L Hg (#M 9149) into 100ml = 0.2ug/L Hg
#M9152 09/02/09 GE	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 445) with 1part HNO3 (AB: 454)

#M9153 ICSAB Na, K into 500 ml vol flask pipet. ~~25ml~~ 23-09 50mls #M8747 9-3-09 15mls #M8462, 50mls M9060, 50mls #M9059 Bring up to mark with DI H_2O. ex 1/10

#M9154 09/08/09 GE	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9155 09/08/09 GE	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9156 09/08/09 GE	Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M) into 100ml = 3.0ug/L Hg
#M9157 09/08/09 GE	Hg MRL:	0.2ml of 100ug/L Hg (#M) into 100ml = 0.2ug/L Hg
#M9158 09/08/09 GE	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 445) with 1part HNO3 (AB: 454)

#M9142 8/27/09 TCLP Extraction Fluid #1: Fill a 20L carboy with 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB-446) and 128.6mL 10N NaOH (#M9033). Dilute to 20L with D.I. H_2O and mix. The pH = 4.93 ± 0.05
AMA Exp. 8/27/10

#M9143 09/01/09 GFAA 3020 MDL ✓ Soln (1% HNO_3) 1.0mL of 1000mg/L Ag (#9052), 1000mg/L Pb (#M8734), 1000mg/L Tl (#M8844) → 100mL = 10,000µg/L Ag, Pb, Tl
GJE 09/01/09 GJE
10mL of 10,000µg/L Ag, Pb, Tl → 100mL = 1000µg/L Ag, Pb.
09/01/09 GJE

#M9143 09/01/09 GFAA 3020 MDL ✓ Soln (1% HNO_3) Exp. 12-15-09 0.04mL of 1000mg/L Pb (#M8734); 0.04mL of 1000mg/L Tl (#M8844); 0.0029mL Ag (#M9052) → 100mL = 400µg/L Pb, 400µg/L Tl, & 29µg/L Ag
GJE
1mL of 400µg/L Pb, Tl & 29µg/L Ag → 1000mL = 0.4µg/L Pb, Tl; 0.029µg/L Ag

#M9144 09/01/09 GFAA MDL ✓ Soil Spiking Solution (1% HNO_3) Pipet the following into a 1L Vol. flask and bring up to volume with D.I. H_2O. Exp. 12/15/09
GJE
0.002mL of 1000mg/L Ag (#M9052)
0.04mL of 1000mg/L Pb (#M8734)
0.05mL of 1000mg/L Sb (#M9053)
0.07mL of 1000mg/L As (#M9058)
0.075mL of 1000mg/L Se (#M9054)
0.035mL of 1000mg/L Tl (#M8844)

#M9145 09/01/09 GFAA LOQ ✓ Soil Spiking Solution (1% HNO_3) Into a 1L Vol. Flask, pipet the following and bring up to volume with D.I. H_2O. Exp. 12/15/09
GJE
0.0075mL of 1000mg/L Ag (#M9052)
0.135mL of 1000mg/L Pb (#M8734)
0.165mL of 1000mg/L Sb (#M9053)
0.24mL of 1000mg/L As (#M9058)
0.25mL of 1000mg/L Se (#M9054)
0.125mL of 1000mg/L Tl (#M8844)

#M9146 09/01/09 GFAA 3020 LOQ ✓ Soln (1% HNO_3) Exp. 12-15-09 Pipet 0.096mL Ag (#M9052), 1.4mL Tl (#M8844) & 1.3mL Pb 1000mg/L (#M8734) → 100mL = 960µg/L Ag, 14000 Tl, & 13,000µg/L Pb
GJE 09/01/09 GJE
Pipet 10mL of 960µg/L Ag, 14000 Tl, & 13000µg/L Pb → 100mL = 1400µg/L Tl, 1300µg/L Pb, 96µg/L
Pipet 1mL of 1400µg/L Tl, 1300µg/L Pb, 96µg/L Ag → 1000mL = 1.4µg/L Tl, 1.3µg/L Pb, 0.096µg/L

#M9147 09/01/09 TCLP Extraction Fluid #1: Fill a 20L carboy with 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB-446) and 128.6mL 10N NaOH (#M9033). Dilute to 20L w/ D.I. H_2O and mix. The pH = 4.93 ± 0.05
GJE

#M9148 09/
GJE

M9149 09/02
GJE

M9150 09/02
GJE

#M9151 09/
GJE

#M9152 09
GJE

m9153
JA

#M9154 0
GJE

#M9155 09/
GJE

#M9156 09/0
GJE

#M9157 09/
GJE

#M9158 09/
GJE

#M9129 08/24/09 Tin (II) Chloride Dihydrate Fisher Lot No. 091749 500g f.w. 225.65
GLE

#M9130 08/24/09 Tin (II) Chloride Dihydrate Fisher Lot No. 086821 500g f.w. 225.65
GLE

#M9131 08/24/09 Turbidity Standard 2.0 NTU AMCO Clear Lot No. P997117
GLE Expires August 2010

#M9132 8/24/09 TCLP Extraction Fluid #1: Fill a 20L carboy with 19L D.I. H_2O. Add 114mL
AMG Glacial Acetic Acid (AB:4446) and 128.6 mL 10N NaOH
(#M9033). Dilute to 20L with D.I. H_2O and mix.
The pH = 4.93 ± 0.05. Exp. 8/24/10

#M9133 8/26/09 GLE	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9134 08/26/09 GLE	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9135 08/26/09 GLE	Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9134) into 100ml = 3.0ug/L Hg
#M9136 08/26/09 GLE	Hg MRL:	0.2ml of 100ug/L Hg (#M9134) into 100ml = 0.2ug/L Hg
#M9137 08/26/09 GLE	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 445) with 1part HNO3 (AB: 454)

#M9138 08/26/09 Stannous Chloride Reagent - Into a 1000mL Vol. Flask, dissolve 100g Stannous
GLE Chloride (#M8811(6)) in 70 mL HCL (AB. 445).
Bring up to mark with D.I. H_2O. Exp. 8/26/10

#M9139 08/26/09 NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#9527(A)) and 60g
AMG Hydroxylamine Sulfate (#M9810) in 500mL
Milli-Q H_2O. Exp. 2/26/10

#M9140 ✓ 8-27-09 Boron 1000 mg/L Spex Certiprep Lot# 15-68B ex Aug 2009

#M9141 ✓ 8-27-09 Custom Assurance Std Spex Certiprep Lot # ~~XETWI-500~~ 19-60JB

#M9118 3051 Spiking Solution (1% HNO_3) Expires: 12/15/09 — Into a 500mL Vol. Flask, pipet the following and bring up to volume with D.I. H_2O.
- 2.5mL Ag (#M9052) 1000 mg/L
- 50mL B (#M8841) 1000 mg/L
- 25 ~~2.5~~mL Co (#M8726) 1000 mg/L — 08/14/09 GLE
- 2.5mL Cd (#~~M8953~~ M9055) 1000 mg/L — 08/14/09 GLE
- 0.5mL Sb (#M9053) 1000 mg/L
- 50mL Mo (#M8843) 1000 mg/L
- 50mL Mn (#M8966) 10,000 mg/L

08/14/09 GLE

#M9119 GLE GFAA Base Std (25µg/L) (1% HNO_3) 08/14/09 — Pipet 10mL of 100 µg/mL (#M8881) → 200mL = 5000µg/L; 10mL of 5000µg/L → 200mL = 250µg/L; 20mL of 250µg/L → 200mL = 25µg/L (Exp. 04/01/10)

#M9120 GLE GFAA Alt. Source Std (10µg/L) (1% HNO_3) 08/14/09 — Pipet 10mL of 10µg/mL (#M8880) → 08/14/09 GLE 100mL = 1000µg/L; 10mL of 1000µg/L → 100mL = 100µg/L; 20mL of 100µg/L → 200mL = 10µg/L

#M9121 Silicon 1000mg/L Fisher Lot # 081816 ex 4/10 8-17-09

#M9122 AMA Potassium Persulfate: 50g Potassium Persulfate (#8228) dissolved into 1000mL D.I. H_2O. Exp. 2/19/10 — 8/19/09

#M9123 AMA Potassium Permanganate soln: 50g Potassium Permanganate (#M8969) dissolved into 1000mL Milli-Q H_2O. Exp. 2/19/10 — 8/19/09

#M9124 AMA — Hg Working Stds: (0.2% HNO3, HCl) — 8/19/09
- 1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg
- 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
- 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
- 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
- 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
- 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
- 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
- 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M9125 AMA — Hg Alt Source Working Std: (0.2% HNO3, HCl) — 8/19/09
- 1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
- 1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M9126 AMA — Hg ICV/CCV/LCSW: (0.2% HNO3, HCl) — 8/19/09
- 3.0ml of 100ug/L Hg (#M 9125) into 100ml = 3.0ug/L Hg

#M9127 AMA — Hg MRL: — 8/19/09
- 0.2ml of 100ug/L Hg (#M9125) into 100ml = 0.2ug/L Hg

#M9128 AMA — Hg Aqua Regia Reagent: — 8/19/09
- "Carefully" in hood, mix 3 parts HCl (AB: 444) with 1part HNO3 (AB: 448)

#M9129 G
#M913 G
#M9131 G
#M9132 AM
#M9133 GLE
#M9134 GLE
#M9135 GLE
#M9136 GLE
#M9137 GLE
#M9138 GLE
#M9139

mb
H_2O

#M9108 AMA 8/11/09 AMA — NaCl ~~Hydroxylamine~~ Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#8577(A)) and 60g Hydroxylamine Sulfate (#M8810) in 500mL Milli-Q H_2O. Exp 2/11/10
8/11/09

#M9109 AMA 8/11/09 — Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg
	1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
	0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
	1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
	2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
	4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
	5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
	10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9110 AMA 8/11/09 — Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
	1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9111 AMA 08/11/09 — Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M) into 100ml = 3.0ug/L Hg
#M9112 AMA 8/11/09 — Hg MRL:	0.2ml of 100ug/L Hg (#M) into 100ml = 0.2ug/L Hg
#M9113 AMA 8/11/09 — Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 444) with 1part HNO3 (AB: 448)

#M9114 GvE 08/12/09 — GFAA Spiking Solution (4.5min) (1% HNO_3) — Into a 200mL Vol. Flask, pipet the following and bring up to volume with D.I. H_2O. (Exp. 6-30-10)
1.0mL of 1000mg/L As (#M9058)
0.2mL of 1000mg/L Se (#M8555) 9054 08/12/09 GvE

#M9115 GvE 08/13/09 — ICP Spiking Solution (7min) (1% HNO_3) — Into a 200mL Vol. Flask, pipet the following and bring up to volume with D.I. H_2O (Exp. 12-15-09)
4.0mL of 1000mg/L Cr (#M8775)
10.0mL of 1000mg/L Pb (#M9056) 8734 } 08/13/09 GvE
10.0mL of 1000mg/L V (#M8734) 9056 }

#M9116 GvE 08/13/09 — Spike Sample Standard 1 — Spex Certiprep Lot No. 41-10AS Exp. 08-15-10

#M9117 GvE 08/14/09 — Turbidity Working Stds: Into 20mLs pipet from #M8730 (200 NTU)
Cal Ex Stds: 4.25 — 2.0mL into 18mLs D.I. H_2O = 20 NTU
55.4 — 10mLs into 10mLs D.I. H_2O = 100 NTU
557 — 20mLs into 0mLs D.I. H_2O = 200 NTU
(Exp. 12/10)

Na, K, ICV, CCV, LCSW

M9097 Into 500 ml vol flask pipet from #M9059(Na) 50mL & 50mL from #M9060(K) bring up to mark with DI H_2O
8-2-09 ex 7/10.
JA

#M9098 08/04/09 TCLP Extraction Fluid #1: Fill a 20L Carboy with 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB-446) and 128.6 mL 10N NaOH (#M9033). Dilute to 20L with D.I. H_2O and mix. The pH = 4.93 ± 0.05.
GLE

#M9099 08/05/09 AMA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9100 08/05/09 AMA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9101 08/05/09 AMA	Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M) into 100ml = 3.0ug/L Hg
#M9102 08/05/09 AMA	Hg MRL:	0.2ml of 100ug/L Hg (#M) into 100ml = 0.2ug/L Hg
#M9103 08/05/09 AMA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 444) with 1part HNO3 (AB: 448)

#M9104 AMA 08/05/09 Potassium Permanganate Sol'n: 50g Potassium Permanganate (#7841) dissolved into 1000mL Milli-Q H_2O. Exp. 2/5/10

#M9105 8-10-09 Tungsten 1000mg/L SPC Science Plasma cal Lot # SC900766e1 ex 10/10

#M9106 AMA 8/10/09 SPLP Extraction Fluid #1: Into a 20L carboy, add D.I. H_2O to mark and adjust pH to 4.20 ± 0.05 with M8367. Exp. 8/10/10

#M9107 AMA 08/10/09 TCLP Extraction Fluid #2: Into a 20L carboy, pipet 114mL Glacial Acetic Acid (AB-446) and dilute to 20L with D.I. H_2O. The pH = 2.88 ± 0.05 Exp. 08/10/10

M9095 MDL ~~100~~ Check 3010 Base Std.
8-2-09

#M9095

MDL Check Base SPIKE PREPARATION for 3010

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	Log Book Number & Expire Date	MDL (ug/L)	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	M9052	1.8	1000	0.09
Al	M8967	6	10000	0.03
As	M9058	6	1000	0.3
Ba	M8959	1	1000	0.05
Be	M8840 2/10	0.24	1000	0.012
Ca	M8964	8	10000	0.04
Cd	M9055	0.4	1000	0.02
Co	M8726 12/09	0.6	1000	0.03
Cr	M8725 12/09	1	1000	0.05
Cu	M8961	3.8	10000	0.019
Fe	M8962	16	10000	0.08
Mg	M8845	14	10000	0.07
Mn	M8842 2/10	4	1000	0.2
Mo	M8843 2/10	0.6	1000	0.03
Ni	M8728 12/09	1.2	1000	0.06
Pb	M8734 12/09	2.6	1000	0.13
Sb	M9053	4	1000	0.2
Se	M9054	4	1000	0.2
Tl	M8844 2/10	2	1000	0.1
V	M9056	1.2	1000	0.06
Zn	M8731 12/09	1.6	1000	0.08
Na	M8737 12/09	200	10000	1
K	M8738 12/09	200	10000	1
B	M8841 2/10	12	1000	0.6
Si	M8565 8/09	30	1000	1.5
Li	M8727 12/09	2.6	1000	0.13
Sn	M8732 12/09	2	1000	0.1
Sr	M8736 12/09	2.2	1000	0.11
Tl	M8735 12/09	10	1000	0.5
W	M8733 12/09	6	1000	0.3

Of this Base standard pipet 10 mls into 500 ml volumetric to create working std or 1 ml into 50 ml digestion tube for digested working standard.
Bring up to mark with DI H2O Expires .12/09

M9096 MDL Check 3050 Base Std
8-2-09

#M9096

MDL Check Base SPIKE PREPARATION for 3050

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	Log Book Number & Expire Date	MDL (ug/L)	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	M9052	1.8	1000	0.09
Al	M8967	4	10000	0.02
As	M9058	6	1000	0.3
Ba	M8959	1.04	1000	0.052
Be	M8840 2/10	0.28	1000	0.014
Ca	M8964	16	10000	0.08
Cd	M9055	0.4	1000	0.02
Co	M8726 12/09	0.8	1000	0.04
Cr	M8725 12/09	1.4	1000	0.07
Cu	M8961	3.2	1000	0.16
Fe	M8962	22	10000	0.11
Mg	M8845	8	10000	0.04
Mn	M8842 2/10	1.6	1000	0.08
Mo	M8843 2/10	0.6	1000	0.03
Ni	M8728 12/09	1	1000	0.05
Pb	M8734 12/09	2	1000	0.1
Sb	M9053	4	1000	0.2
Se	M9054	6	1000	0.3
Tl	M8844 2/10	4	1000	0.2
V	M9056	2	1000	0.1
Zn	M8731 12/09	2	1000	0.1
Na	M8737 12/09	200	10000	1
K	M8738 12/09	400	10000	2
B	M8841 2/10	12	1000	0.6
Si	M8565 8/09	42	1000	2.1
Li	M8727 12/09	6	1000	0.3
Sn	M8732 12/09	6	1000	0.3
Sr	M8736 12/09	1.4	1000	0.07
Tl	M8735 12/09	6	1000	0.3
W	M8733 12/09	10	1000	0.5

Of this Base standard pipet 10 mls into 500 ml volumetric to create working std or 1 ml into 50 ml digestion tube for digested working standard.

#M9088 GE 07/28/09	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9089 GE 07/28/09	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9090 GE 07/28/09	Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 9089) into 100ml = 3.0ug/L Hg
#M9091 GE 07/28/09	Hg MRL:	0.2ml of 100ug/L Hg (#M 9089) into 100ml = 0.2ug/L Hg
#M9092 GE 07/28/09	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 444) with 1part HNO3 (AB: 448)

#M9093 MRL Base
8-2-09

MRL Check Base SPIKE PREPARATION

Into a 1000 mL Volumetric Flask, pipet the following:

Log#	Analyte	(ug/L)	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
M9052	Ag	20	1000	1
M8967	Al	400	10000	2
M9058	As	10	1000	0.5
M8959	Ba	10	1000	0.5
M8840	Be	4	1000	0.2
M8964	Ca	500	10000	2.5
M9055	Cd	5	1000	0.25
M8726	Co	10	1000	0.5
M8725	Cr	10	1000	0.5
M8961	Cu	10	10000	0.05
M8962	Fe	300	10000	1.5
M8845	Mg	500	10000	2.5
M8842	Mn	10	1000	0.5
M8843	Mo	10	1000	0.5
M8728	Ni	10	1000	0.5
M8734	Pb	10	1000	0.5
M9053	Sb	20	1000	1
M9054	Se	10	1000	0.5
M8844	Tl	20	1000	1
M9056	V	10	1000	0.5
M8731	Zn	10	1000	0.5
M8841	B	10	1000	0.5
M8565	Si	10	1000	0.5
M8727	Li	20	1000	1
M8732	Sn	10	1000	0.5
M8736	Sr	10	1000	0.5
M8735	Ti	110	1000	5.5
M8733	W	10	1000	0.5
M8738	Na	1000	10000	5
M8737	K	5000	10000	25

Bring up to mark with DI H2O.

Expires 12-09

Of this Base standard pipet 10 mls into 500 ml volumetric to create working std.

#M9094 LOQ Base std
8.2.09

#M9094

LOQ Check Base SPIKE PREPARATION

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	Log #	LOQ (ug/L)	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	M9052	3	1000	0.15
Al	M8967	2	10000	0.01
As	M9058	10	1000	0.5
Ba	M8959	1	1000	0.05
Be	M8840 2/10	0.4	1000	0.02
Ca	M8964	20	10000	0.1
Cd	M9055	0.5	1000	0.025
Co	M8726 12/09	1	1000	0.05
Cr	M8725 12/09	2	1000	0.1
Cu	M8961	5	10000	0.025
Fe	M8962	300	10000	1.5
Mg	M8845	10	10000	0.05
Mn	M8842 2/10	5	1000	0.25
Mo	M8843 2/10	1	1000	0.05
Ni	M8728 12/09	1	1000	0.05
Pb	M8734 12/09	5	1000	0.25
Sb	M9053	5	1000	0.25
Se	M9054	5	1000	0.25
Tl	M8844 2/10	5	1000	0.25
V	M9056	2	1000	0.1
Zn	M8731 12/09	2	1000	0.1
Na	M8737 12/09	20	1000	1
K	M8738 12/09	20	1000	1
B	M8841 2/10	5	1000	0.25
Si	M8565 8/09	5	1000	0.25
Li	M8727 12/09	2	1000	0.1
Sn	M8732 12/09	10	1000	0.5
Sr	M8736 12/09	10	1000	0.5
Ti	M8735 12/09	1000	10000	5
W	M8733 12/09	5000	10000	25

Of this Base standard pipet 10 mls into 500 ml volumetric.

EX 12-09

#M9075 GvE Soil Hg 20a ✓ 0.09mL of 100ng/L Hg (#M9068) into 100mL = 0.09ng/L Hg
07/14/09

#M9076 AMA 07/20/09	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9077 AMA 07/20/09	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M8564) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9078 AMA 7/20/09	Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9077) into 100ml = 3.0ug/L Hg
#M9079 AMA 7/20/09	Hg MRL:	0.2ml of 100ug/L Hg (#M 9077) into 100ml = 0.2ug/L Hg
#M9080 AMA 7/20/09	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 439) with 1part HNO3 (AB: 440)

#M9081 AMA 7/20/09 NaCl Hydroxylamine Sulfate Reagent - Dissolve 60g NaCl (#8577(A)) and 60g Hydroxylamine Sulfate (#M9810) in 500mL Milli-Q water. Exp. 1/20/10

#M9082 GvE 07/20/09 Sodium Chloride Fisher Chemical Lot No. 091363 f.w. 58.44

#M9083 GvE 07/20/09 Tin (II) Chloride Dihydrate Fisher Chemical Lot No. 085968 f.w. 225.65

#M9084 AMA 07/21/09 Potassium Permanganate Soln: 50g Potassium Permanganate (#7841) dissolved into 1000mL Milli-Q H_2O. Exp 01-21-10

#M9085 AMA 7/21/09 TCLP Extraction Fluid #1: Exp. 7/21/10 Fill a 20L carboy with 19L D.I.H_2O. Add 114mL Glacial Acetic Acid (AB:446) and 128.6mL 10N NaOH (#M9086). Dilute to 20L with D.I. H_2O and mix. The pH=4.93±0.05

#M9086 AMA 7/21/09 10N NaOH : Into a 1L vol. flask, partially filled with D.I.H_2O, dissolve 400g NaOH (W21448) and bring up to vol. with D.I.H_2O. Exp. 7/21/10

#M9087 AMA 7/21/09 TCLP Extraction Fluid #1: Exp. 7/21/10 Fill a 20L carboy with 19L D.I.H_2O. Add 114mL Glacial Acetic Acid (AB:446) and 128.6mL 10N NaOH (#M9086). Dilute to 20L with D.I. H_2O and mix. The pH= 4.93±0.05.

#M9062 GLE 07/11/09 TCLP Extraction Fluid #1: Fill a 20L Carboy with 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB:446) and 128.6mL 10N NaOH (#M9033) Dilute to 20L with D.I. H_2O and mix. The pH = 4.93 ± 0.05. Exp. 7-12 ~~Portland Cal~~

#M9063 GLE Mercury Standard (1mg/mL) in 10% HNO_3. ACROS Organics Lot No. A0254552 Exp. 07/28/14

190164 AMA 07/13/09 TCLP Extraction Fluid #1: Fill a 20L carboy with 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB:446) and 128.6mL 10N NaOH (#M9033) Dilute to 20L with D.I. H_2O and mix. The pH = 4.93 ± 0.05. Exp. 7/13/10

190165 AMA 07/13/09 TCLP Extraction Fluid #1: Fill a 20L carboy with 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB:446) and 128.6mL 10N NaOH (#M9033) Dilute to 20L with D.I. H_2O and mix. The pH = 4.93 ± 0.05. Exp. 7/13/10

#M9066 GLE 07/14/09 Potassium Persulfate: 50g Potassium Persulfate (#8228) dissolved into 1000mL D.I. H_2O. Exp. 01/14/10

19067 GLE 07/14/09	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9068 GLE 07/14/09	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M8564) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9069 GLE 07/14/09	Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 9068) into 100ml = 3.0ug/L Hg
#M9070 GLE 07/14/09	Hg MRL:	0.2ml of 100ug/L Hg (#M 9068) into 100ml = 0.2ug/L Hg
#M9071 GLE 7/14/09	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 439) with 1part HNO3 (AB: 440)
#M9072 GLE 07/14/09	Hg Water MDL ✓ (0.2% HNO_3, HCl)	0.04mL of 100 µg/L Hg (#M9068) into 100mL = 0.04 µg/L Hg
#M9073 GLE 07/14/09	Hg LOQ ✓ Water (0.2% HNO_3, HCl)	0.13mL of 100 µg/L Hg (#M9068) into 100mL = 0.13 µg/L Hg
#M9074 GLE 07/14/09	Soil Hg MDL ✓	0.03mL of 100 µg/L Hg (#M9068) into 100mL = 0.03 µg/L Hg

#M9075 GLE Soil Hg 07/14/09

#M9076 AMA 07/20/09 Hg (0.

#M9077 AMA 07/20/09 Hg (0.2

#M9078 AMA 7/20/09 Hg (0.2

#M9079 AMA 7/20/09 Hg

#M9080 AMA 7/20/09 Hg

#M9081 AMA 7/20/09 NaCl Hyd

#M9082 GLE 07/20/09 Sodium C

#M9083 GLE 07/20/09 Tin (II) Ch

#M9084 AMA 07/21/09 Potassium

#M9085 AMA 7/21/09 TCLP Extrac Exp. 7

#M9086 AMA 7/21/09 10N NaOH

#M9087 AMA 7/21/09 TCLP Extra Exp. 7/21

#M8722 12-22-08 : Custom Assurance Std Spex Certiprep lot# 14-56JB. ex Nov 15 2009

#M8723 12-22-08: Spike Sample Std 1 Spex certiprep lot# 6-1116S ex Nov 15 2009

#M8724 12-22-08 Mercury 1000mg/L Spex Certiprep lot# CL4-93HG ex Dec 15 2009

#M8725 12-22-08 Chromium 1000 mg/L Spex Certiprep lot# CL4-80CR ex Dec 15 2009

#M8726 12-22-08 Cobalt 1000mg/L Spex Certiprep lot # CL4-109CO ex 12/15/09

#M8727 12-22-08 Lithium 1000mg/L Spex Certi prep lot # 14-94L; ex 12-15-09

#M8728 12-22-08 Nickel 1000mg/L Spex Certiprep lot # 14-125Ni ex 12-15-09

#M8729 12-22-08 Tin 1000mg/L Fisher lot # 080222 ex 1/2010

#M8730 12-22-08 StableCal Std200NTU Hach lot# A8331 ex Dec/2010 12-22-08

#M8731 12-22-08 Zn 1000mg/L Spex Certiprep lot # 14-472n ex Dec 15 2009

#M8732 12-22-08 Sn 1000mg/L Spex Certiprep lot# CL4-65SN ex Dec 15 2009

#M8733 12-22-08 W 1000mg/L Spex Certiprep lot# PLW2-2Y ex Dec 15 2009

#M8734 12-22-08 Pb 1000mg/L Spex Certiprep lot# CL4-106PB ex 12/15/09

#M8735 12-22-08 Titanium 1000mg/L Spex Certiprep lot# 14-62TI ex 12-15-09

#M8736 12-22-08 Sr 1000 mg/L ~~1000 mg/L~~ 12-22-08 Spex Certiprep lot# PLSR2-2Y ex 12-15-09

#M8737 12-22-08 K 10,000 mg/L Spex Certiprep lot# AA11-93K ex 12-15-09.

#M8738 12-22-08 Na 10,000 mg/L Spex Certiprep lot# PLNA2-3X ex 12-15-09.

#M8739 12-22-08 Quality Control Std 7 Spex Certiprep lot# 6-1236S ex 12-15-09

#M8740 ICSA. ato 500 ml Vol flask pipet 50 mls of M8550 bring up to 1% HCL 12-2408 mark with DI H2O ex 7/09.
1% HNO3 4/5 mls M8552

INORGANIC
CLP FORMS
DOCUMENTS

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-031-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	97.9	Lab Sample ID:	871189
Analytical Method:	EPA 8000C	Date Received:	11/12/2010
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71954	Analysis Date/Time	11/22/2010 12:30
Analytical Prep Batch #:		Prep. Date/Time:	

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	97.9					

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-031-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	97.9	Lab Sample ID:	871189
Analytical Method:	EPA 3060A/7196A	Date Received:	11/12/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71974	Analysis Date/Time	11/23/2010 14:30
Analytical Prep Batch #:	35540	Prep. Date/Time:	11/23/2010 08:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
18540-29-9	Hexavalent Chromium	1.9	U	1.9	2.0	6.5	6.5

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-032-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	98.2	Lab Sample ID:	871198
Analytical Method:	EPA 8000C	Date Received:	11/12/2010
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71954	Analysis Date/Time	11/22/2010 12:30
Analytical Prep Batch #:		Prep. Date/Time:	

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	98.2					

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-032-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	98.2	Lab Sample ID:	871198
Analytical Method:	EPA 3060A/7196A	Date Received:	11/12/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71974	Analysis Date/Time	11/23/2010 14:30
Analytical Prep Batch #:	35540	Prep. Date/Time:	11/23/2010 08:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
18540-29-9	Hexavalent Chromium	1.9	U	1.9	2.0	6.5	6.5

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-032-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	98.2	Lab Sample ID:	871198
Analytical Method:	EPA 9056M	Date Received:	11/12/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72420	Analysis Date/Time	12/11/2010 23:48
Analytical Prep Batch #:	35693	Prep. Date/Time:	12/08/2010 08:00

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
9004-70-0	Nitrocellulose	7.0	U	7.0	N/A	N/A	23

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-032-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	98.1	Lab Sample ID:	871184
Analytical Method:	EPA 8000C	Date Received:	11/12/2010
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71954	Analysis Date/Time	11/22/2010 12:30
Analytical Prep Batch #:		Prep. Date/Time:	

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	98.1					

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-032-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	98.1	Lab Sample ID:	871184
Analytical Method:	EPA 3060A/7196A	Date Received:	11/12/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71974	Analysis Date/Time	11/23/2010 14:30
Analytical Prep Batch #:	35540	Prep. Date/Time:	11/23/2010 08:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
18540-29-9	Hexavalent Chromium	1.9	U	1.9	2.0	6.5	6.5

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-032-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	98.1	Lab Sample ID:	871184
Analytical Method:	EPA 9056M	Date Received:	11/12/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72420	Analysis Date/Time	12/11/2010 22:29
Analytical Prep Batch #:	35693	Prep. Date/Time:	12/08/2010 08:00

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
9004-70-0	Nitrocellulose	7.0	U	7.0	N/A	N/A	23

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-034-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	98.2	Lab Sample ID:	871192
Analytical Method:	EPA 8000C	Date Received:	11/12/2010
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71954	Analysis Date/Time	11/22/2010 12:30
Analytical Prep Batch #:		Prep. Date/Time:	

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	98.2					

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-034-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	98.2	Lab Sample ID:	871192
Analytical Method:	EPA 3060A/7196A	Date Received:	11/12/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71974	Analysis Date/Time	11/23/2010 14:30
Analytical Prep Batch #:	35540	Prep. Date/Time:	11/23/2010 08:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
18540-29-9	Hexavalent Chromium	1.9	U	1.9	2.0	6.5	6.5

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-035-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	98.0	Lab Sample ID:	871187
Analytical Method:	EPA 8000C	Date Received:	11/12/2010
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71954	Analysis Date/Time	11/22/2010 12:30
Analytical Prep Batch #:		Prep. Date/Time:	

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	98.0					

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Sample Description

DLASS-035-0001-SO

INORGANIC ANALYSIS DATA SHEET

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	98.0	Lab Sample ID:	871187
Analytical Method:	EPA 3060A/7196A	Date Received:	11/12/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71974	Analysis Date/Time	11/23/2010 14:30
Analytical Prep Batch #:	35540	Prep. Date/Time:	11/23/2010 08:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
18540-29-9	Hexavalent Chromium	1.9	U	1.9	2.0	6.5	6.5

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-036-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	97.7	Lab Sample ID:	871188
Analytical Method:	EPA 8000C	Date Received:	11/12/2010
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71954	Analysis Date/Time	11/22/2010 12:30
Analytical Prep Batch #:		Prep. Date/Time:	

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	97.7					

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Sample Description

DLASS-036-0001-SO

INORGANIC ANALYSIS DATA SHEET

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	97.7	Lab Sample ID:	871188
Analytical Method:	EPA 3060A/7196A	Date Received:	11/12/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71974	Analysis Date/Time	11/23/2010 14:30
Analytical Prep Batch #:	35540	Prep. Date/Time:	11/23/2010 08:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
18540-29-9	Hexavalent Chromium	2.0	J	1.9	2.0	6.6	6.6

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-037-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	97.8	Lab Sample ID:	871191
Analytical Method:	EPA 8000C	Date Received:	11/12/2010
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71954	Analysis Date/Time	11/22/2010 12:30
Analytical Prep Batch #:		Prep. Date/Time:	

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	97.8					

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-037-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	97.8	Lab Sample ID:	871191
Analytical Method:	EPA 3060A/7196A	Date Received:	11/12/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71974	Analysis Date/Time	11/23/2010 14:30
Analytical Prep Batch #:	35540	Prep. Date/Time:	11/23/2010 08:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
18540-29-9	Hexavalent Chromium	1.9	J	1.9	2.0	6.5	6.5

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-038-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	98.1	Lab Sample ID:	871193
Analytical Method:	EPA 8000C	Date Received:	11/12/2010
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71954	Analysis Date/Time	11/22/2010 12:30
Analytical Prep Batch #:		Prep. Date/Time:	

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	98.1					

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-038-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	98.1	Lab Sample ID:	871193
Analytical Method:	EPA 3060A/7196A	Date Received:	11/12/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71974	Analysis Date/Time	11/23/2010 14:30
Analytical Prep Batch #:	35540	Prep. Date/Time:	11/23/2010 08:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
18540-29-9	Hexavalent Chromium	1.9	U	1.9	2.0	6.5	6.5

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-039-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	97.8	Lab Sample ID:	871190
Analytical Method:	EPA 8000C	Date Received:	11/12/2010
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71954	Analysis Date/Time	11/22/2010 12:30
Analytical Prep Batch #:		Prep. Date/Time:	

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	97.8					

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Sample Description

DLASS-039-0001-SO

INORGANIC ANALYSIS DATA SHEET

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	97.8	Lab Sample ID:	871190
Analytical Method:	EPA 3060A/7196A	Date Received:	11/12/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71974	Analysis Date/Time	11/23/2010 14:30
Analytical Prep Batch #:	35540	Prep. Date/Time:	11/23/2010 08:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
18540-29-9	Hexavalent Chromium	1.9	U	1.9	2.0	6.5	6.5

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-040-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	99.3	Lab Sample ID:	871196
Analytical Method:	EPA 8000C	Date Received:	11/12/2010
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71954	Analysis Date/Time	11/22/2010 12:30
Analytical Prep Batch #:		Prep. Date/Time:	

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	99.3					

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-040-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	99.3	Lab Sample ID:	871196
Analytical Method:	EPA 3060A/7196A	Date Received:	11/12/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71974	Analysis Date/Time	11/23/2010 14:30
Analytical Prep Batch #:	35540	Prep. Date/Time:	11/23/2010 08:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
18540-29-9	Hexavalent Chromium	1.9	U	1.9	2.0	6.4	6.4

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-041-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	99.1	Lab Sample ID:	871195
Analytical Method:	EPA 8000C	Date Received:	11/12/2010
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71954	Analysis Date/Time	11/22/2010 12:30
Analytical Prep Batch #:		Prep. Date/Time:	

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	99.1					

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-041-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	99.1	Lab Sample ID:	871195
Analytical Method:	EPA 3060A/7196A	Date Received:	11/12/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71974	Analysis Date/Time	11/23/2010 14:30
Analytical Prep Batch #:	35540	Prep. Date/Time:	11/23/2010 08:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
18540-29-9	Hexavalent Chromium	1.9	U	1.9	2.0	6.5	6.5

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-042-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	99.0	Lab Sample ID:	871197
Analytical Method:	EPA 8000C	Date Received:	11/12/2010
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71954	Analysis Date/Time	11/22/2010 12:30
Analytical Prep Batch #:		Prep. Date/Time:	

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	99.0					

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-042-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	99.0	Lab Sample ID:	871197
Analytical Method:	EPA 3060A/7196A	Date Received:	11/12/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71974	Analysis Date/Time	11/23/2010 14:30
Analytical Prep Batch #:	35540	Prep. Date/Time:	11/23/2010 08:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
18540-29-9	Hexavalent Chromium	1.9	U	1.9	2.0	6.5	6.5

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1

INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-042-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	99.0	Lab Sample ID:	871197
Analytical Method:	EPA 9056M	Date Received:	11/12/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72420	Analysis Date/Time	12/11/2010 23:32
Analytical Prep Batch #:	35693	Prep. Date/Time:	12/08/2010 08:00

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
9004-70-0	Nitrocellulose	7.0	U	7.0	N/A	N/A	23

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-042-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	99.1	Lab Sample ID:	871186
Analytical Method:	EPA 8000C	Date Received:	11/12/2010
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71954	Analysis Date/Time	11/22/2010 12:30
Analytical Prep Batch #:		Prep. Date/Time:	

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	99.1					

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1

INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-042-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	99.1	Lab Sample ID:	871186
Analytical Method:	EPA 3060A/7196A	Date Received:	11/12/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71974	Analysis Date/Time	11/23/2010 14:30
Analytical Prep Batch #:	35540	Prep. Date/Time:	11/23/2010 08:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
18540-29-9	Hexavalent Chromium	1.9	U	1.9	2.0	6.5	6.5

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1

INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-042-0003-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	99.1	Lab Sample ID:	871186
Analytical Method:	EPA 9056M	Date Received:	11/12/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72420	Analysis Date/Time	12/11/2010 23:16
Analytical Prep Batch #:	35693	Prep. Date/Time:	12/08/2010 08:00

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
9004-70-0	Nitrocellulose	7.0	U	7.0	N/A	N/A	23

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1

INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-044-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	99.2	Lab Sample ID:	871194
Analytical Method:	EPA 8000C	Date Received:	11/12/2010
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71954	Analysis Date/Time	11/22/2010 12:30
Analytical Prep Batch #:		Prep. Date/Time:	

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	99.2					

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1

INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-044-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA ORE PILES
Matrix (soil/water):	SOIL	SDG No.:	82458
% Solids:	99.2	Lab Sample ID:	871194
Analytical Method:	EPA 3060A/7196A	Date Received:	11/12/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	71974	Analysis Date/Time	11/23/2010 14:30
Analytical Prep Batch #:	35540	Prep. Date/Time:	11/23/2010 08:30

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
18540-29-9	Hexavalent Chromium	1.9	U	1.9	2.0	6.5	6.5

CT LABORATORIES
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Sample No.

ICV

2A-1

INITIAL CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71974 Lab Sample ID: 875426

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Hexavalent Chromium	11/23/10	14:30	500.0	524.0	105	90	110	SP

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71974 Lab Sample ID: 875421

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Hexavalent Chromium	11/23/10 14:30	500.0	530.0	106	90	110	SP

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71974 Lab Sample ID: 875422

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Hexavalent Chromium	11/23/10 14:30	500.0	530.0	106	90	110	SP

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71974 Lab Sample ID: 875423

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Hexavalent Chromium	11/23/10	14:30	500.0	530.0	106	90	110	SP

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71974 Lab Sample ID: 875424

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Hexavalent Chromium	11/23/10	14:30	500.0	513.0	103	90	110	SP

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 72420 Lab Sample ID: 880434

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Nitrocellulose	12/11/10 19:29	7.000	7.039	101	90	110	IC

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 72420 Lab Sample ID: 880435

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Nitrocellulose	12/11/10	22:45	7.000	7.063	101	90	110	IC

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 72420 Lab Sample ID: 880437

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Nitrocellulose	12/12/10 01:54	7.000	7.080	101	90	110	IC

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No

ICB

3-1

INITIAL CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71974 Lab Sample ID: 875425

Analytical Prep Batch #: Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Hexavalent Chromium	11/23/2010 14:30	19.00	U	50	50	SP

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
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Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71974 Lab Sample ID: 875418

Analytical Prep Batch #: Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Hexavalent Chromium	11/23/2010 14:30	14.00	U	50	50	SP

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
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Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71974 Lab Sample ID: 875419

Analytical Prep Batch #: Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Hexavalent Chromium	11/23/2010 14:30	15.00	U	50	50	SP

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

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Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71974 Lab Sample ID: 875420

Analytical Prep Batch #: Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Hexavalent Chromium	11/23/2010 14:30	14.00	U	50	50	SP

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

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Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 72420 Lab Sample ID: 880436

Analytical Prep Batch #: Preparation Date/Time:

Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Nitrocellulose	12/11/2010 23:00	0			0.12	IC

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
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Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 72420 Lab Sample ID: 880438

Analytical Prep Batch #: Preparation Date/Time:

Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Nitrocellulose	12/12/2010 02:10	0			0.12	IC

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

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Sample No

MB

3-3

METHOD BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 71974 Lab Sample ID: 874621

Analytical Prep Batch # 35540 Preparation Date/Time: 11/23/2010 08:30

Concentration Units: mg/kg

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Hexavalent Chromium	11/23/2010 14:30	1.08	U	1.9	3.2	SP

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

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Sample No

MB

3-3

METHOD BLANKS

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA ORE PILES

SDG No.: 82458

Analytical Run #: 72420 Lab Sample ID: 878497

Analytical Prep Batch # 35693 Preparation Date/Time: 12/08/2010 08:00

Concentration Units: mg/kg

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Nitrocellulose	12/11/2010 20:07	0			7	IC

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

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5A

SPIKE SAMPLE RECOVERY

Sample Description

DLASS-014-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82458
% Solids for Sample:	96.9	Concentration Units:	mg/kg

Analytical Run #: 71974 Sample No 874624 Parent Sample No.: 870201

Analytical Prep Batch # 35540 Analytical Preparation Date/Time: 11/23/2010 08:30

Analysis Type *Initial Analysis* Analysis Date: ----- 11/23/2010 Analysis Time: -------- 14:30

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Hexavalent Chromium	75-125	33.2		0	U	413	8		SP	*FAIL*

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5A

SPIKE SAMPLE RECOVERY

Sample Description

DLASS-014-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82458
% Solids for Sample:	96.9	Concentration Units:	mg/kg
Analytical Run #:	71974	Sample No	875415
Analytical Prep Batch #	35540	Analytical Preparation Date/Time:	11/23/2010 08:30

Parent Sample No.: 870201

Analysis Type	*Initial Analysis*	Analysis Date: -----	11/23/2010	Analysis Time: --------	14:30

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Hexavalent Chromium	75-125	0	U	0	U	41.3	0		SP	*FAIL*

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5A

SPIKE SAMPLE RECOVERY

Sample Description

DLASS-002-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82458
% Solids for Sample:	98.1	Concentration Units:	mg/kg

Analytical Run #: 72420 Sample No 878499 Parent Sample No.: 870189

Analytical Prep Batch # 35693 Analytical Preparation Date/Time: 12/08/2010 08:00

Analysis Type *Initial Analysis* Analysis Date: ----- 12/11/2010 Analysis Time: -------- 20:38

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M
Nitrocellulose	70-130	364		0	U	500	73		IC

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5C

SPIKE DUPLICATE SAMPLE RECOVERY

Sample Description: **DLASS-002-0001-SO**

Lab Name: CT Laboratories | Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID | SDG No.: 82458

% Solids for Sample: 98.1 | Concentration Units: mg/kg

Analytical Run #: 72420 | Sample No 878500 | Parent Sample No.: 878499

Analytical Prep Batch #: 35693 | Analytical Preparation Date/Time: 12/08/2010 08:00

Analysis Type *Initial Analysis* | Analysis Date: -------- 12/11/2010 | Analysis Time: -------- 20:54

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M
Nitrocellulose	70-130	383		0	U	500	77		IC

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5B

POST DIGESTION SPIKE SAMPLE RECOVERY

Sample Description: **DLASS-014-0001-SO**

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82458
% Solids for Sample:	96.9	Concentration Units:	mg/kg
Analytical Run #:	71974	Sample No	875417
Parent Sample No.:	870201		
Analytical Prep Batch #		Analytical Preparation Date/Time:	

Analysis Type: *Initial Analysis* Analysis Date: ----- 11/23/2010 Analysis Time: -------- 14:30

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Hexavalent Chromium	85-115	99		0.0	U	1000	10		SP	*FAIL*

CT LABORATORIES
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6

DUPLICATES

Sample Description

DLASS-014-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID SDG No.: 82458

% Solid for Sample: 96.9 Concentration Units: mg/kg

Analytical Run #: 71974 Sample #: 874623 Parent Sample #: 870201

Analytical Prep Batch # 35540 Analytical Preparation Date/Time: 11/23/2010 08:30

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M
Hexavalent Chromium	11/23/2010	14:30	30	6.6	U	6.6	U	0		SP

CT LABORATORIES
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6

DUPLICATES

Sample Description

DLASS-014-0001-SO

Lab Name: CT Laboratories Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID SDG No.: 82458

% Solid for Sample: 96.9 Concentration Units: %

Analytical Run #: 71954 Sample #: 874181 Parent Sample #: 870201

Analytical Prep Batch # Analytical Preparation Date/Time:

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M
Solids, Percent	11/22/2010	12:30	5	96.9		96.8		0		GRA

CT LABORATORIES
delivering more than data from your environmental analyses

6A

MATRIX SPIKE DUPLICATES

Sample Description: **DLASS-002-0001-SO**

Lab Name: CT Laboratories | Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID | SDG No.: 82458

% Solid for Sample: 98.1 | Concentration Units: mg/kg

Analytical Run #: 72420 | Sample #: 878500 | Parent Sample #: 878499

Analytical Prep Batch #: 8 | Analytical Preparation Date/Time: 12/11/49 1

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Time	RPD Limit	Matrix Spike Parent Conc. (S)	C	Matrix Spike Duplicate Conc. (D)	C	RPD	Q	M
Nitrocellulose	12/11/2010 20:54	20	364		383		5		IC

CT LABORATORIES
delivering more than data from your environmental analyses

7-2

Sample No:

LABORATORY CONTROL SAMPLE - SOLID

LCS

Lab Name: CT Laboratories Contract USACE - LOUISVILLE-RAVENNA ORE PILES

LCS Source: SPEX and Ultra SDG No.: 82458

Concentration Units: mg/kg

Analytical Run #: 71974 Sample No.:#: 874622

Analytical Prep Batch #: 35540 Preparation Date/Time: 11/23/2010 08:30

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	C	Spike Amount	%R	Q	M
Hexavalent Chromium	11/23/2010 14:30	83-115	20.7		20.0	104		SP

CT LABORATORIES
delivering more than data from your environmental analyses

7-2

Sample No:

LABORATORY CONTROL SAMPLE - SOLID

LCS

Lab Name: CT Laboratories Contract USACE - LOUISVILLE-RAVENNA ORE PILES

LCS Source: SPEX and Ultra SDG No.: 82458

Concentration Units: mg/kg

Analytical Run #: 72420 Sample No.:#: 878498

Analytical Prep Batch #: 35693 Preparation Date/Time: 12/08/2010 08:00

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	C	Spike Amount	%R	Q	M
Nitrocellulose	12/11/2010 19:49	70-130	519		500	104		IC

INORGANICS
RAW DATA
DOCUMENTS

Hex chrome

Calibration

{32}{32}{32}{32}{32}{32}{32}{32}{32}{32}{32}{32}{32}ENTERED{32}{32}{32}{32}CALCULATED{13}{10}
STD{32}{32}{32}ABS{32}{32}{32}{32}{32}{32}CONC{32}{32}{32}{32}{32}{32}{32}{32}{32}CONC{32}{32}{32}{32}ERROR{13}{10}
{32}1{32}{32}-0.001{32}{32}{32}{32}0.000{32}{32}{32}{32}{32}{32}10.599{32}{32}{32}10.599{13}{10}
{32}2{32}{32}{32}0.025{32}{32}{32}{32}{32}100.{32}{32}{32}{32}{32}{32}{32}{32}{32}89.{32}{32}{32}{32}{32}-11.{13}{10}
{32}3{32}{32}{32}0.078{32}{32}{32}{32}{32}250.{32}{32}{32}{32}{32}{32}{32}{32}{32}252.{32}{32}{32}{32}{32}{32}{32}2.{13}{10}
{32}4{32}{32}{32}0.159{32}{32}{32}{32}{32}500.{32}{32}{32}{32}{32}{32}{32}{32}{32}497.{32}{32}{32}{32}{32}{32}-3.{13}{10}
{32}5{32}{32}{32}0.327{32}{32}{32}{32}1000.{32}{32}{32}{32}{32}{32}{32}{32}1010.{32}{32}{32}{32}{32}{32}10.{13}{10}
----------{13}{10}
{13}{10}
SLOPE{32}{32}{32}{32}{32}{32}{32}{32}0.0003{13}{10}
INTERCEPT{32}{32}{32}{32}-0.004{13}{10}
CORR{32}COEFF{32}{32}{32}{32}1.000{13}{10}
----------{13}{10}
{13}{10}
ID#{32}{32}{32}1{32}{32}{32}TEST_01{32}{32}540{32}NM{32}{32}{32}524.{32}C{13}{10}
ID#{32}{32}{32}2{32}{32}{32}TEST_01{32}{32}540{32}NM{32}{32}{32}{32}19.{32}C{13}{10}

ICV = 500 ug/L
524.
ICB
19.

71974

CCV
513.
LCSS
518.
MBS
27.
870200
21.
870201
-5.
DUP870201
-21.
INSOLMS870201X5
161.
SOLMS870201
-5.
PDMS870201
99.
870202
38.
870203
19.
870204
-33.
870207 JTG 11-23-10
-36.
CCV
530.
CCB
14.
871184
-23.
871186
-59.
871187
-57.
871188
48.
871189
-32.
871190
-30.
871191
46.

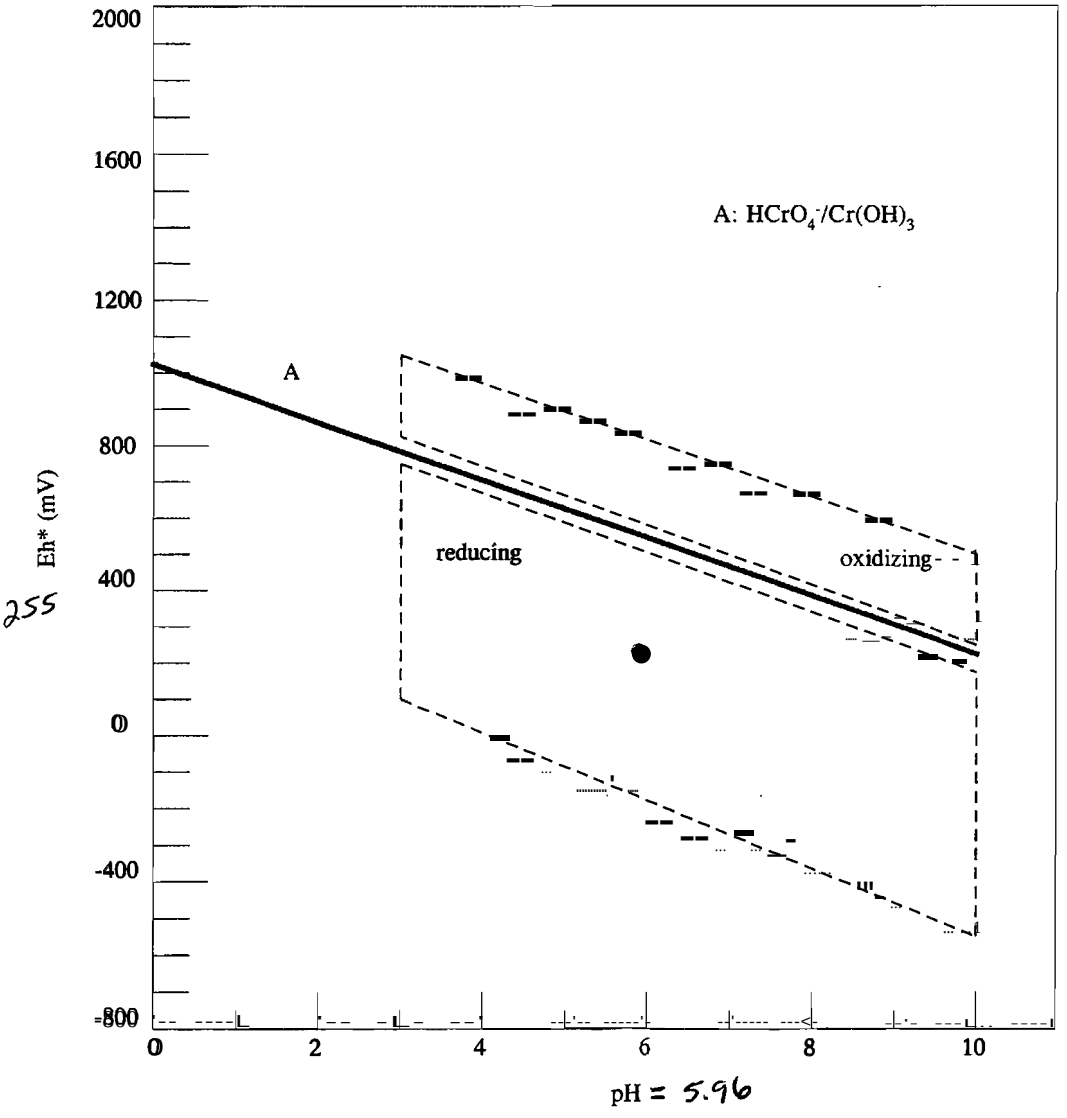
71974

871192
-27.
871193
-26.
871194
-20.
CCV
530.
CCB
15.
871195
-43.
871196
38.
871197
-47.
871198
2.
CCV
530.
CCB
14.

870201

FIGURE 2
Eh/pH PHASE DIAGRAM

The dashed lines define Eh-pH boundaries commonly encountered in soils and sediments.



mV = 56 + 199 = 255

* Note the Eh values plotted on this diagram are corrected for the reference electrode voltage: 244 mY units must be added to the measured value when a separate calomel electrode is used, or 199 mY units must be added if a combination platinum electrode is used.

Calibration Update Report

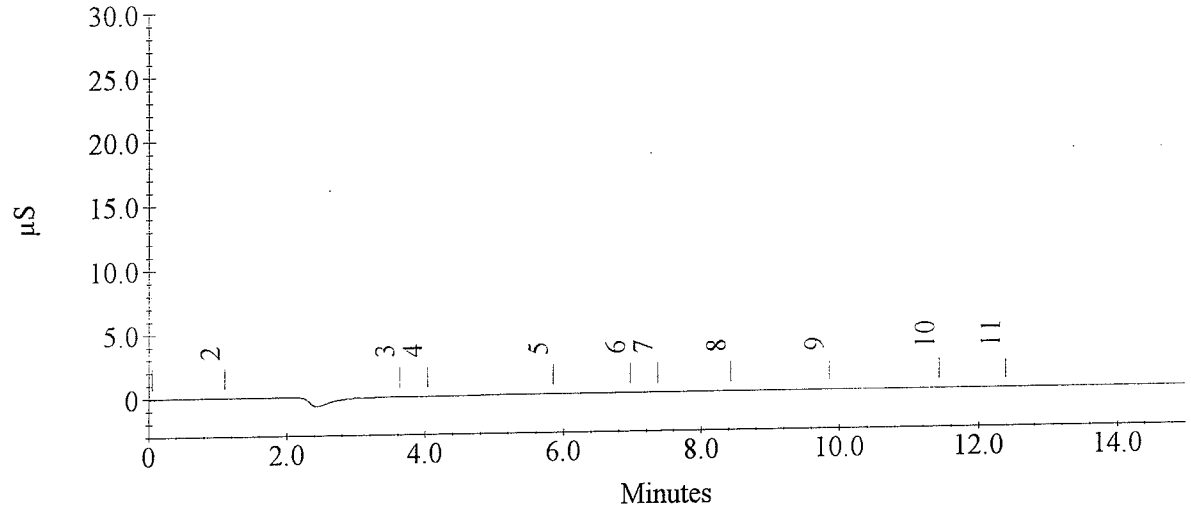
Sample Name : LEVEL 1
Data File Name : C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\W24955\LEVEL 1_011.DXD

Method File Name : C:\INSTRUMENT ARCHIVES\METHODS\SYSTEM 2\W24955.met
Schedule File Name : c:\instrument archives\sequences\system 2\w24955.sch
Date Time Collected : 10/25/2010 19:37:45
Calibration Date : 10/26/2010 09:34:59
System Operator : KMB

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
	Nitrite				
	Bromide				
	Sulfate				

LEVEL 1



Calibration Update Report

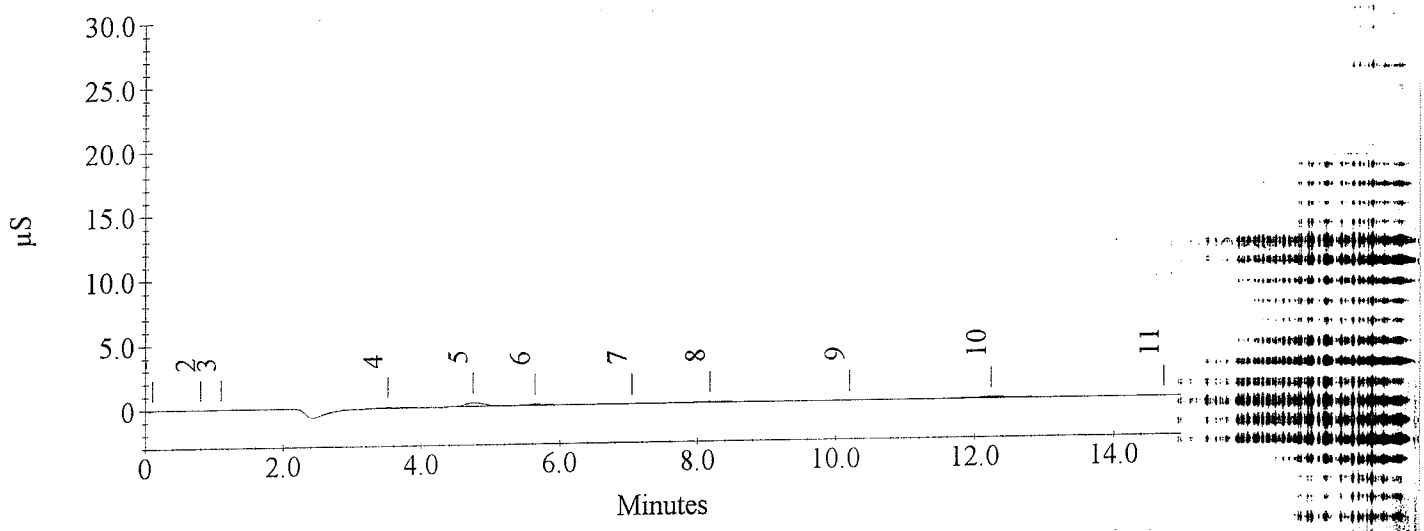
Sample Name : LEVEL 2
Data File Name : C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\W24955\LEVEL 2_012.DXD

Method File Name : C:\INSTRUMENT ARCHIVES\METHODS\SYSTEM 2\W24955.met
Schedule File Name : c:\instrument archives\sequences\system 2\w24955.sch
Date Time Collected : 10/25/2010 19:55:02
Calibration Date : 10/26/2010 09:35:00
System Operator : KMB

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
4	Fluoride	3.52	8742	8742	8742
5	Chloride	4.75	57334	57334	57334
6	Nitrite	5.63	20679	20679	20679
7	Bromide	7.05	4666	4666	4666
8	Nitrate	8.18	27255	27255	27255
9	O.Phos	10.20	1951	1951	1951
10	Sulfate	12.23	42248	42248	42248

LEVEL 2



Calibration Update Report

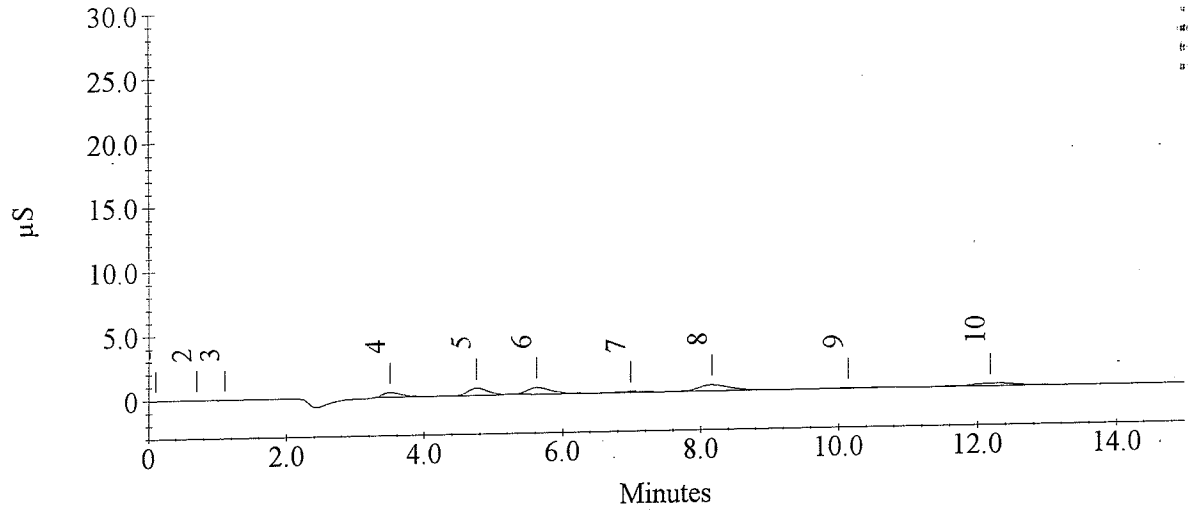
Sample Name : LEVEL 3
Data File Name : C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\W24955\LEVEL 3_013.DXD

Method File Name : C:\INSTRUMENT ARCHIVES\METHODS\SYSTEM 2\W24955.met
Schedule File Name : c:\instrument archives\sequences\system 2\w24955.sch
Date Time Collected : 10/25/2010 20:12:19
Calibration Date : 10/26/2010 09:35:00
System Operator : KMB

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
4	Fluoride	3.50	73162	73162	73162
5	Chloride	4.75	111121	111121	111121
6	Nitrite	5.62	121674	121674	121674
7	Bromide	6.98	17702	17702	17702
8	Nitrate	8.17	148235	148235	148235
9	O.Phos	10.13	15370	15370	15370
10	Sulfate	12.18	88081	88081	88081

LEVEL 3



Calibration Update Report

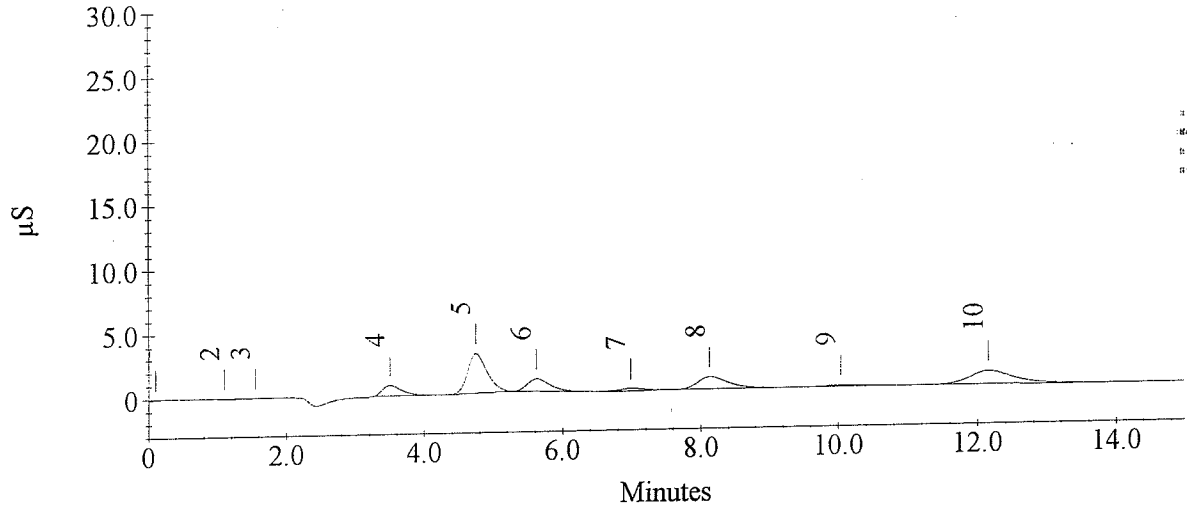
Sample Name : LEVEL 4
Data File Name : C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\W24955\LEVEL 4_014.DXD

Method File Name : C:\INSTRUMENT ARCHIVES\METHODS\SYSTEM 2\W24955.met
Schedule File Name : c:\instrument archives\sequences\system 2\w24955.sch
Date Time Collected : 10/25/2010 20:29:35
Calibration Date : 10/26/2010 09:35:01
System Operator : KMB

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
4	Fluoride	3.50	162768	162768	162768
5	Chloride	4.75	598920	598920	598920
6	Nitrite	5.62	222541	222541	222541
7	Bromide	6.98	41978	41978	41978
8	Nitrate	8.13	307812	307812	307812
9	O.Phos	10.03	58042	58042	58042
10	Sulfate	12.15	465699	465699	465699

LEVEL 4



Calibration Update Report

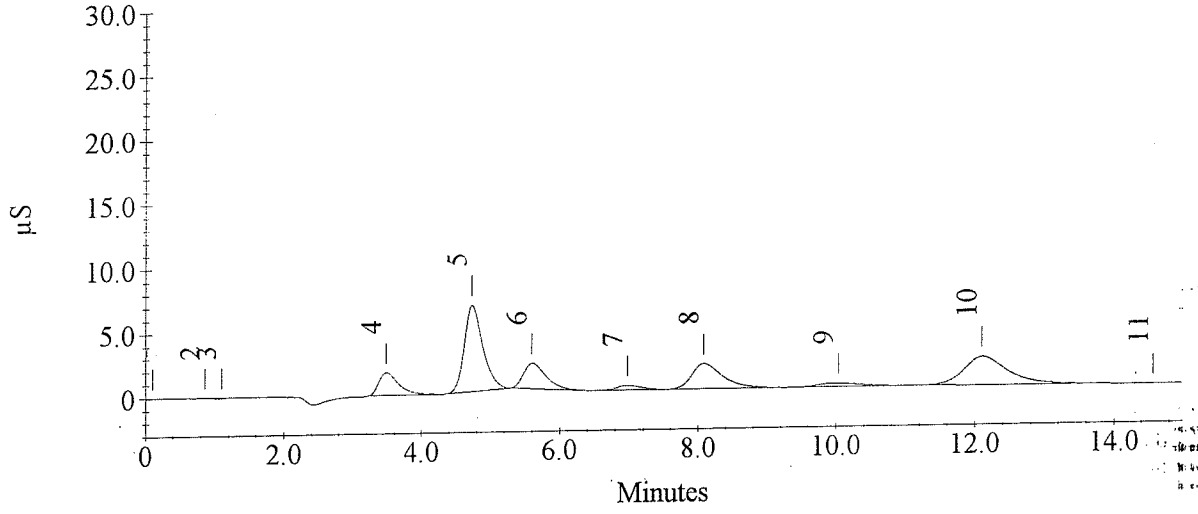
Sample Name : LEVEL 5
Data File Name : C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\W24955\LEVEL 5_015.DXD

Method File Name : C:\INSTRUMENT ARCHIVES\METHODS\SYSTEM 2\W24955.met
Schedule File Name : c:\instrument archives\sequences\system 2\w24955.sch
Date Time Collected : 10/25/2010 20:46:50
Calibration Date : 10/26/2010 09:35:02
System Operator : KMB

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
4	Fluoride	3.48	349770	349770	349770
5	Chloride	4.73	1265941	1265941	1265941
6	Nitrite	5.60	447852	447852	447852
7	Bromide	6.98	86052	86052	86052
8	Nitrate	8.08	618714	618714	618714
9	O.Phos	10.03	128566	128566	128566
10	Sulfate	12.10	983299	983299	983299

LEVEL 5



Calibration Update Report

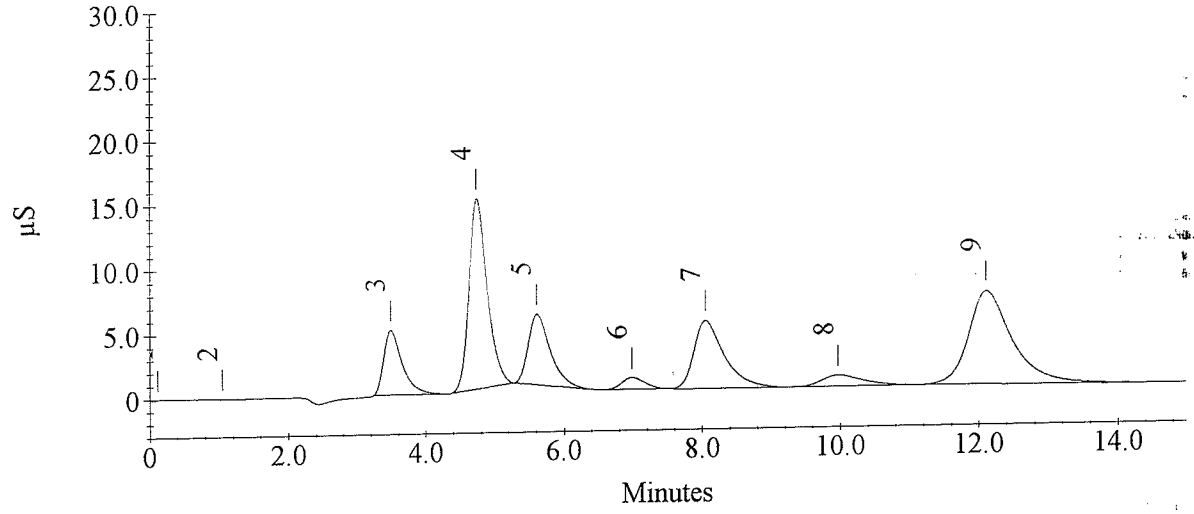
Sample Name : LEVEL 6
Data File Name : C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\W24955\LEVEL 6_016.DXD

Method File Name : C:\INSTRUMENT ARCHIVES\METHODS\SYSTEM 2\W24955.met
Schedule File Name : c:\instrument archives\sequences\system 2\w24955.sch
Date Time Collected : 10/25/2010 21:04:05
Calibration Date : 10/26/2010 09:35:02
System Operator : KMB

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
3	Fluoride	3.48	938799	938799	938799
4	Chloride	4.73	2689285	2689285	2689285
5	Nitrite	5.60	1211449	1211449	1211449
6	Bromide	6.98	218334	218334	218334
7	Nitrate	8.05	1606642	1606642	1606642
8	O.Phos	9.97	362593	362593	362593
9	Sulfate	12.10	3140687	3140687	3140687

LEVEL 6



Calibration Update Report

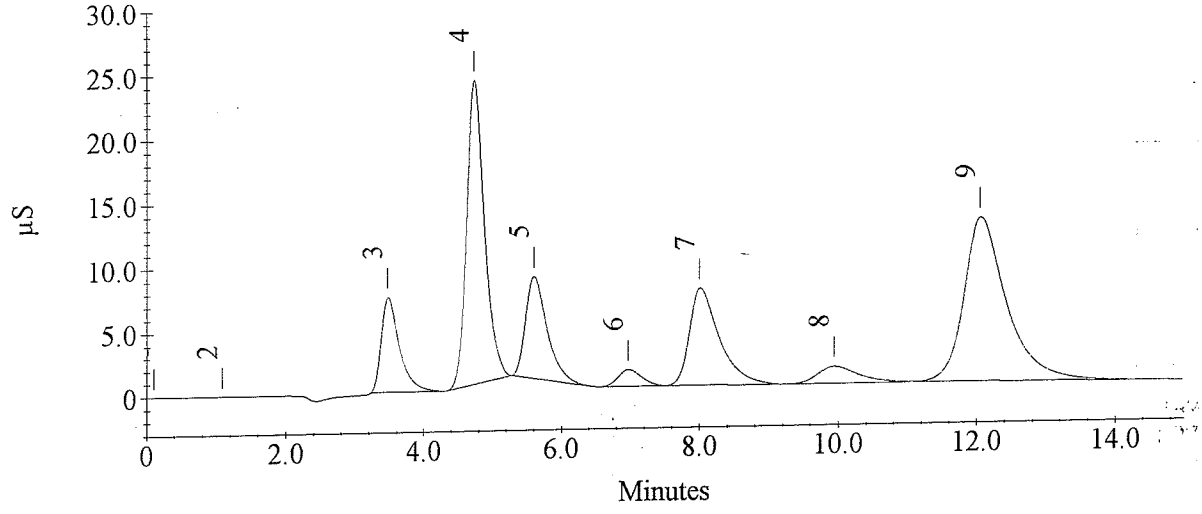
Sample Name : LEVEL 7
Data File Name : C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\W24955\LEVEL 7_017.DXD

Method File Name : C:\INSTRUMENT ARCHIVES\METHODS\SYSTEM 2\W24955.met
Schedule File Name : c:\instrument archives\sequences\system 2\w24955.sch
Date Time Collected : 10/25/2010 21:21:21
Calibration Date : 10/26/2010 09:35:03
System Operator : KMB

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
3	Fluoride	3.47	1357995	1357995	1357995
4	Chloride	4.73	4273201	4273201	4273201
5	Nitrite	5.60	1738072	1738072	1738072
6	Bromide	6.97	305627	305627	305627
7	Nitrate	8.00	2292825	2292825	2292825
8	O.Phos	9.93	528298	528298	528298
9	Sulfate	12.05	5482642	5482642	5482642

LEVEL 7



Calibration Update Report

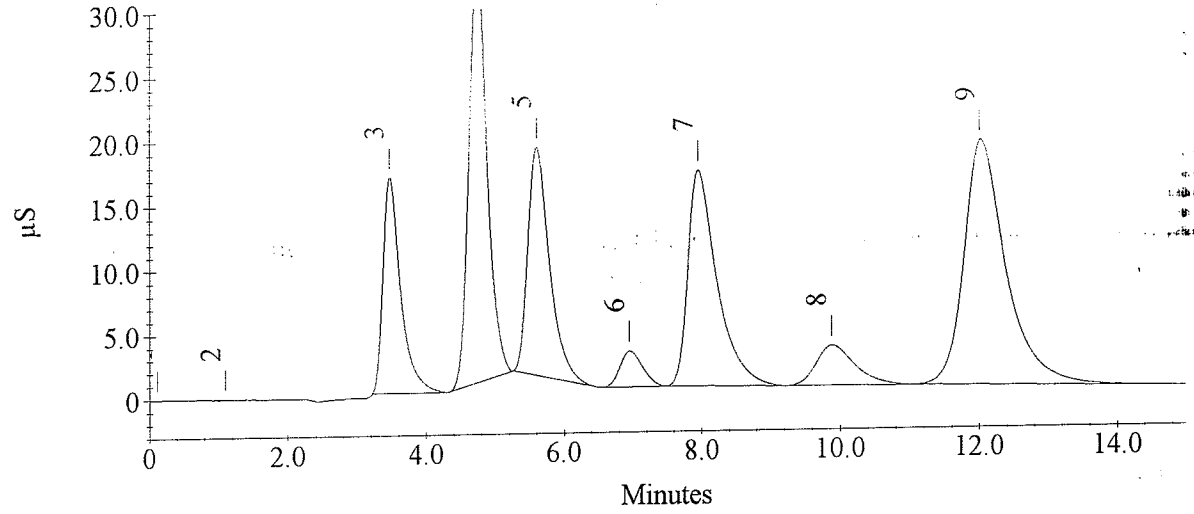
Sample Name : LEVEL 8
Data File Name : C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\W24955\LEVEL 8_018.DXD

Method File Name : C:\INSTRUMENT ARCHIVES\METHODS\SYSTEM 2\W24955.met
Schedule File Name : c:\instrument archives\sequences\system 2\w24955.sch
Date Time Collected : 10/25/2010 21:38:35
Calibration Date : 10/26/2010 09:35:04
System Operator : KMB

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
3	Fluoride	3.47	2951347	2951347	2951347
4	Chloride	4.73	5928545	5928545	5928545
5	Nitrite	5.60		3856013	
6	Bromide	6.95	630021	630021	630021
7	Nitrate	7.95		4944389	
8	O.Phos	9.87		1198569	
9	Sulfate	12.00	7999297	7999297	7999297

LEVEL 8



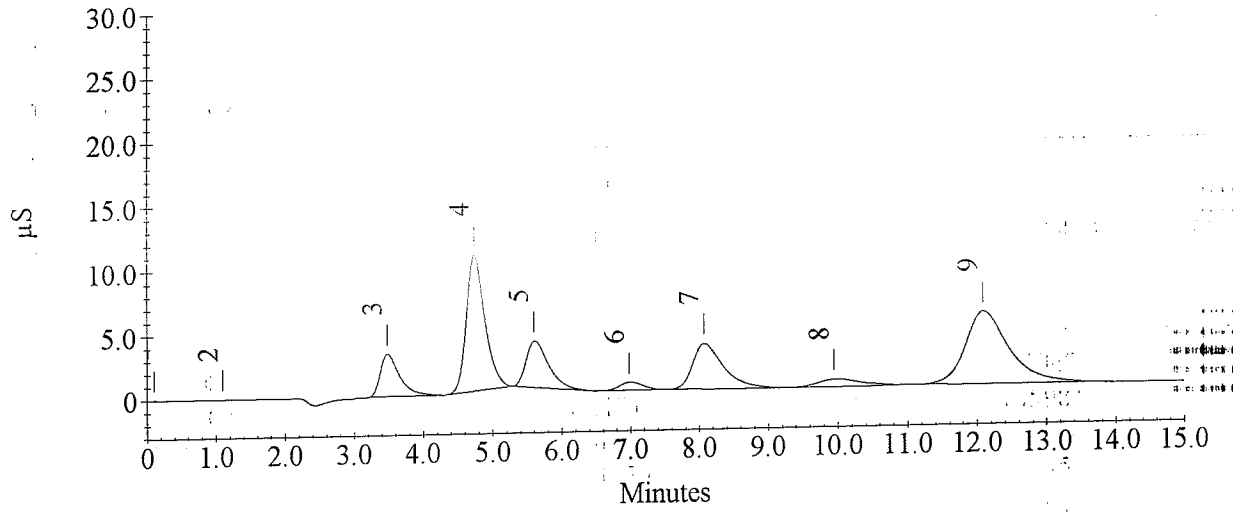
Sample Analysis Report

Sample Name : ICV W24934 W24935
Data File Name : C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\W24955\ICV W24934 W24935_019.DXD

Method File Name : C:\INSTRUMENT ARCHIVES\METHODS\SYSTEM 2\W24955.met
Date Time Collected : 10/25/2010 21:55:50
System Operator : KMB

Peak Information : Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded
3	Fluoride	3.48	3.4367	634955	32967	
4	Chloride	4.73	14.1213	1970105	105981	
5	Nitrite	5.60	3.4367	822248	36161	
6	Bromide	6.98	3.4559	150180	6245	
7	Nitrate	8.07	3.4428	1098313	35502	
8	O.Phos	9.95	3.4664	244737	5788	
9	Sulfate	12.08	22.7529	2482730	56589	



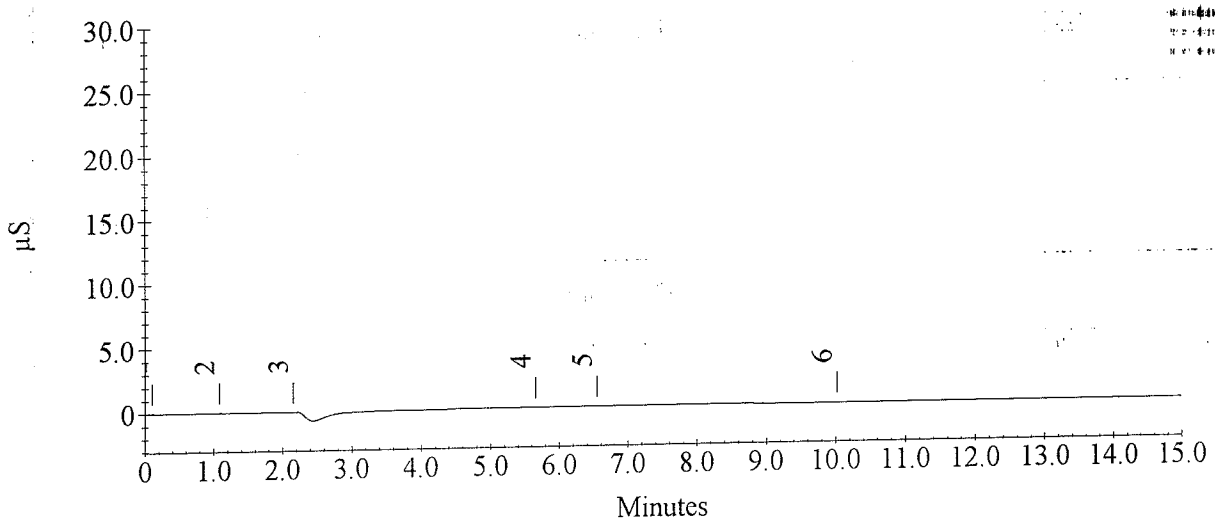
Sample Analysis Report

Sample Name : ICB
Data File Name : C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\W24955\ICB_020.DXD

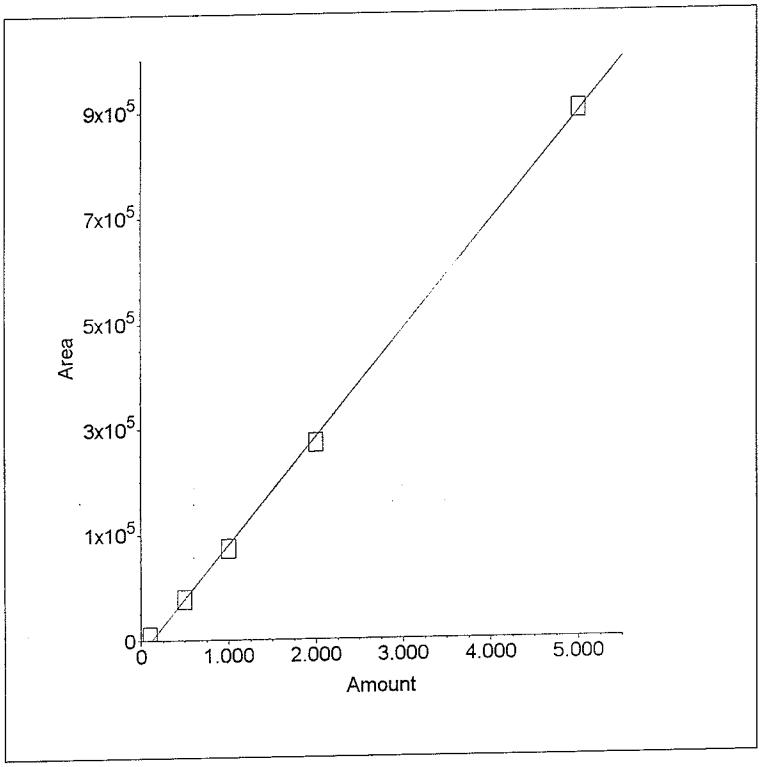
Method File Name : C:\INSTRUMENT ARCHIVES\METHODS\SYSTEM 2\W24955.met
Date Time Collected : 10/25/2010 22:13:05
System Operator : KMB

Peak Information : Found Components

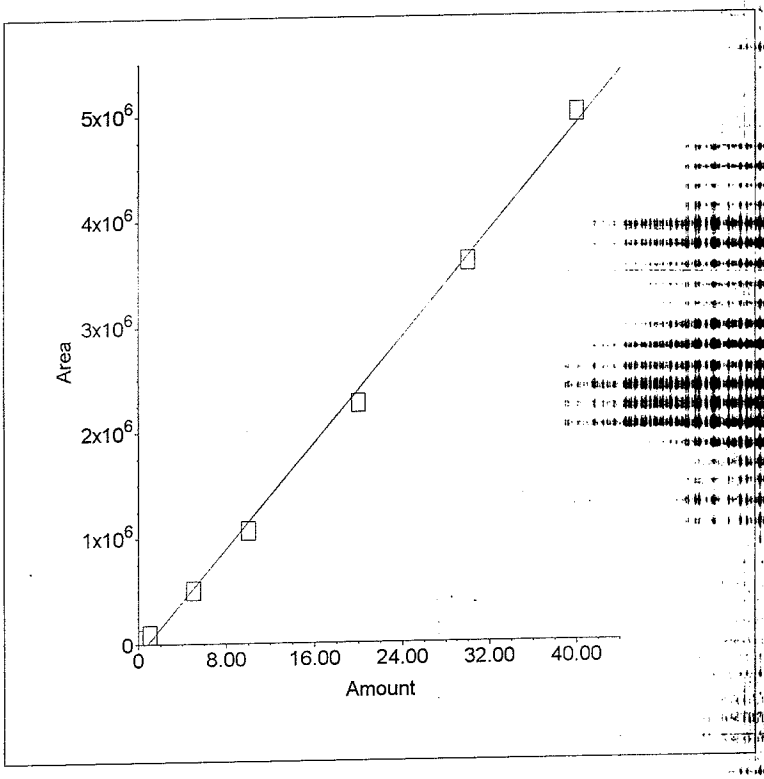
Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded



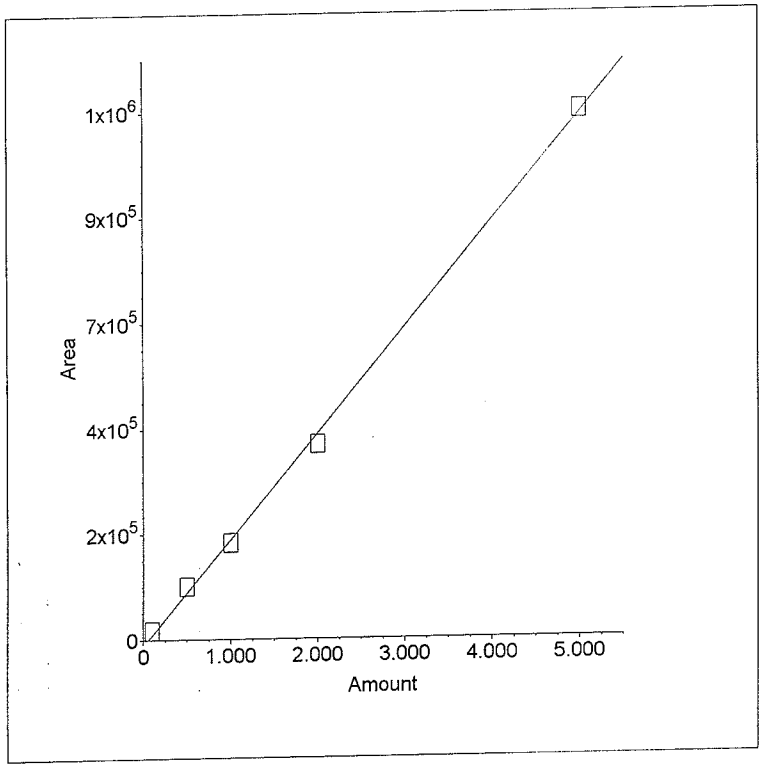
1. Component:Fluoride
Standard:External Fit Type:Linear
Origin:Ignore Calibration:Area
r^2=0.999448
Amt=5.229e-006*Resp+0.1166



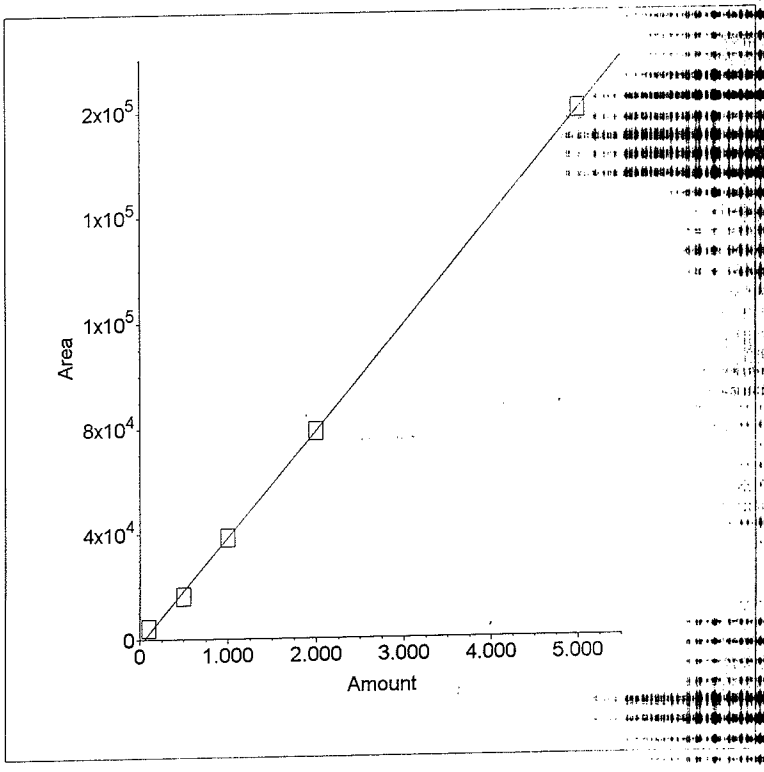
2. Component:Chloride
Standard:External Fit Type:Linear
Origin:Ignore Calibration:Area
r^2=0.997783
Amt=6.749e-006*Resp+0.825



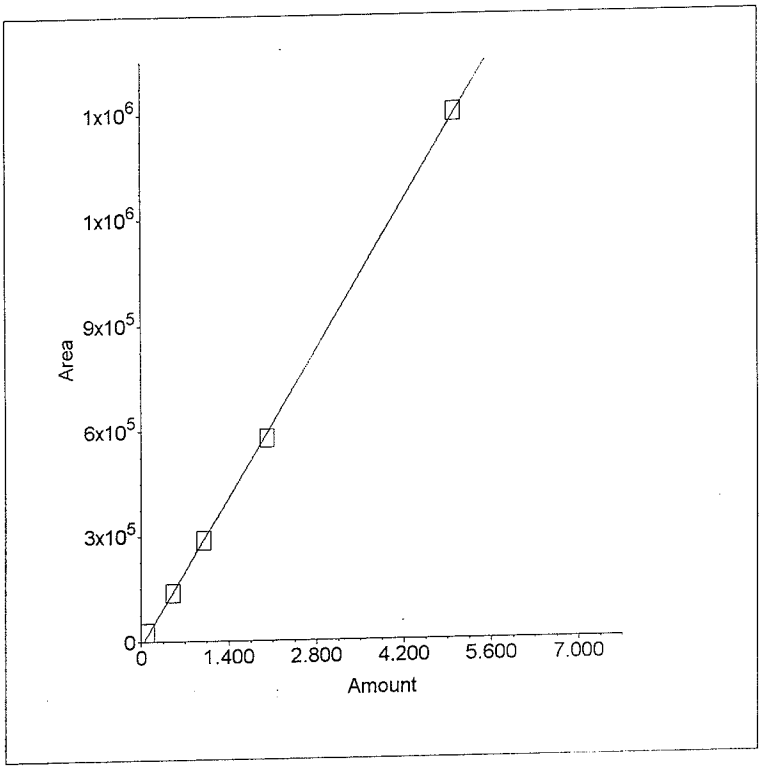
3. Component:Nitrite
Standard:External Fit Type:Linear
Origin:Ignore Calibration:Area
r^2=0.998863
Amt=4.113e-006*Resp+0.05503



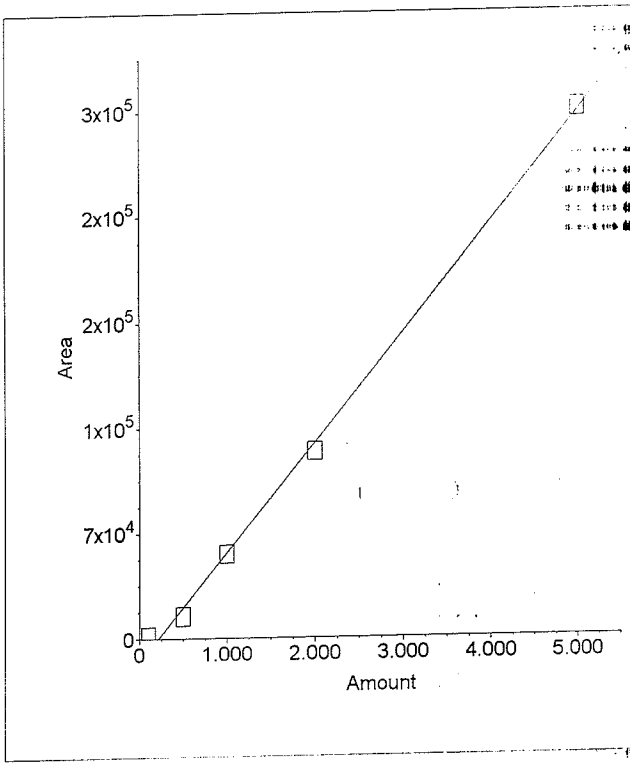
4. Component:Bromide
Standard:External Fit Type:Linear
Origin:Ignore Calibration:Area
r^2=0.999650
Amt=2.271e-005*Resp+0.04516



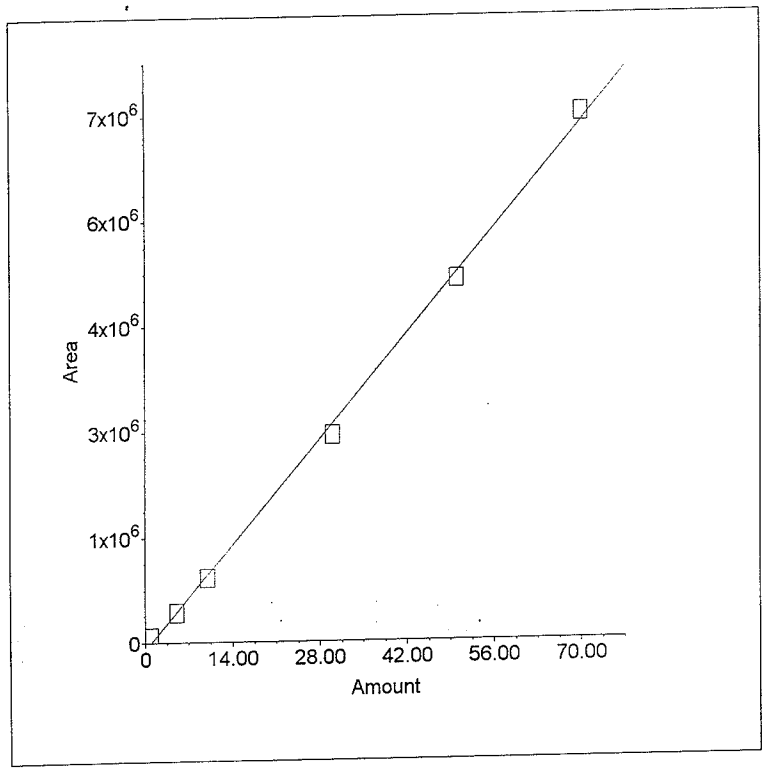
5. Component:Nitrate
Standard:External Fit Type:Linear
Origin:Ignore Calibration:Area
r^2=0.999820
Amt=3.095e-006*Resp+0.04319



6. Component:O.Phos
Standard:External Fit Type:Linear
Origin:Ignore Calibration:Area
r^2=0.997832
Amt=1.329e-005*Resp+0.2145



7. Component:Sulfate
Standard:External Fit Type:Linear
Origin:Ignore Calibration:Area
r^2=0.998706
Amt=8.786e-006*Resp+0.939



Instrument: *DX-120, System*

Cal. File: *W24955*

ICV *W24934* W24935

Analyst: *KMB*

Date: *10/25/2010*

Calibration Concentrations

Analyte	Cal Level 1 Conc. (mg/L)	Cal Level 2 Conc. (mg/L)	Cal Level 3 Conc. (mg/L)	Cal Level 4 Conc. (mg/L)	Cal Level 5 Conc. (mg/L)	Cal Level 6 Conc. (mg/L)	Cal Level 7 Conc. (mg/L)	Cal Level 8 Conc. (mg/L)	ICV Conc. (mg/L)
Fluoride	0.0	0.1	0.5	1.0	2.0	5.0			3.5
Chloride	0.0	0.5	1.0	5.0	10.0	20.0	30.0	40.0	15.0
Nitrite	0.0	0.1	0.5	1.0	2.0	5.0			3.5
Bromide	0.0	0.1	0.5	1.0	2.0	5.0			3.5
Nitrate	0.0	0.1	0.5	1.0	2.0	5.0	7.0		3.5
O-Phoshorous	0.0	0.1	0.5	1.0	2.0	5.0			3.5
Sulfate	0.0	0.5	1.0	5.0	10.0	30.0	50.0	70.0	25.0

Level Not Used

Schedule File: C:\Instrument Archives\Sequences\System 2\72420.sch

Line	Sample	Sample Type	Level	Method
1	CCV W25200 W25278	Sample		w24955.met
2	LCSS X10 VOC043538	Sample		w24955.met
3	MBS X10	Sample		w24955.met
4	870189 X10	Sample		w24955.met
5	MSS870189 X10	Sample		w24955.met
6	MSDS870189 X10	Sample		w24955.met
7	870194 X10	Sample		w24955.met
8	870195 X10	Sample		w24955.met
9	870201 X10	Sample		w24955.met
10	870203 X10	Sample		w24955.met
11	870212 X10	Sample		w24955.met
12	871184 X10	Sample		w24955.met
13	CCV	Sample		w24955.met
14	CCB	Sample		w24955.met
15	871186 X10	Sample		w24955.met
16	871197 X10	Sample		w24955.met
17	871198 X10	Sample		w24955.met
25	CCV	Sample		w24955.met
26	CCB	Sample		w24955.met

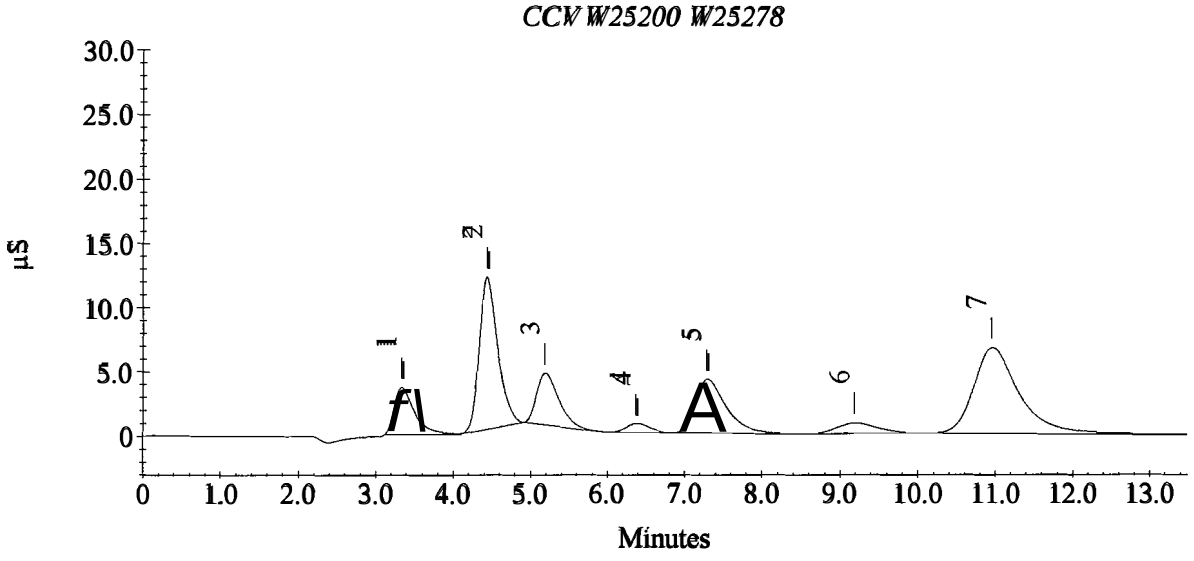
Sample Analysis Report

Sample Name: CCV W25200 W25278
Data File Name: c:\instrument archives\data\system 2\72420\CCV W25200 W25278_001.DXD

Method File Name: c:\instrument archives\methods\system 2\w24955.met
Date Time Collected: 12/11/2010 19:29:41
System Operator: RLD

Peak Information: Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded
1	Fluoride	3.33	3.5627	659061	36413	
2	Chloride	4.43	14.3946	2010594	118489	
3	Nitrite	5.18	3.4176	817601	40308	
4	Bromide	6.37	3.3013	143375	6829	
5	Nitrate	7.28	3.6212	1155951	41789	
6	O.Phos	9.18	4.3227	309186	8508	
7	Sulfate	10.95	25.0714	2746613	67052	



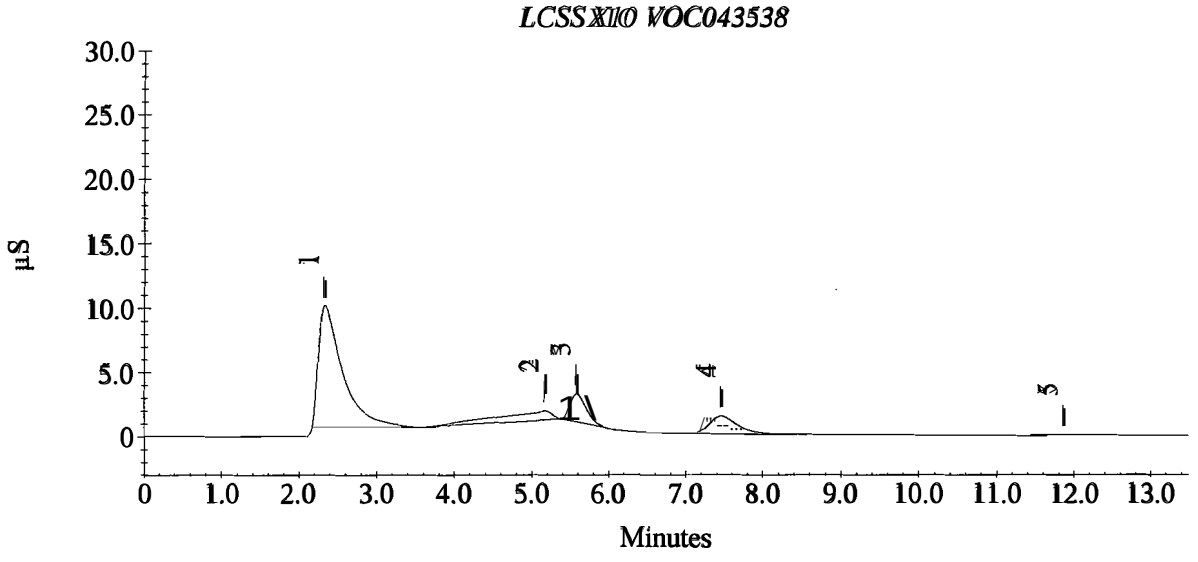
Sample Analysis Report

Sample Name: LCSS X10 VOC043538
Data File Name: C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\72420\LCSS X10 VOC043538_002.DXD

Method File Name: c:\instrument archives\methods\system 2\w24955.met
Date Time Collected: 12/11/2010 19:49:17
System Operator: RLD

Peak Information: Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded
3	Nitrite	5.57	1.3684 >2.5338	319342	21452	
4	Nitrate	7.45	1.1654	362545	14004	
5	Sulfate	11.85	0.9925	6096	196	



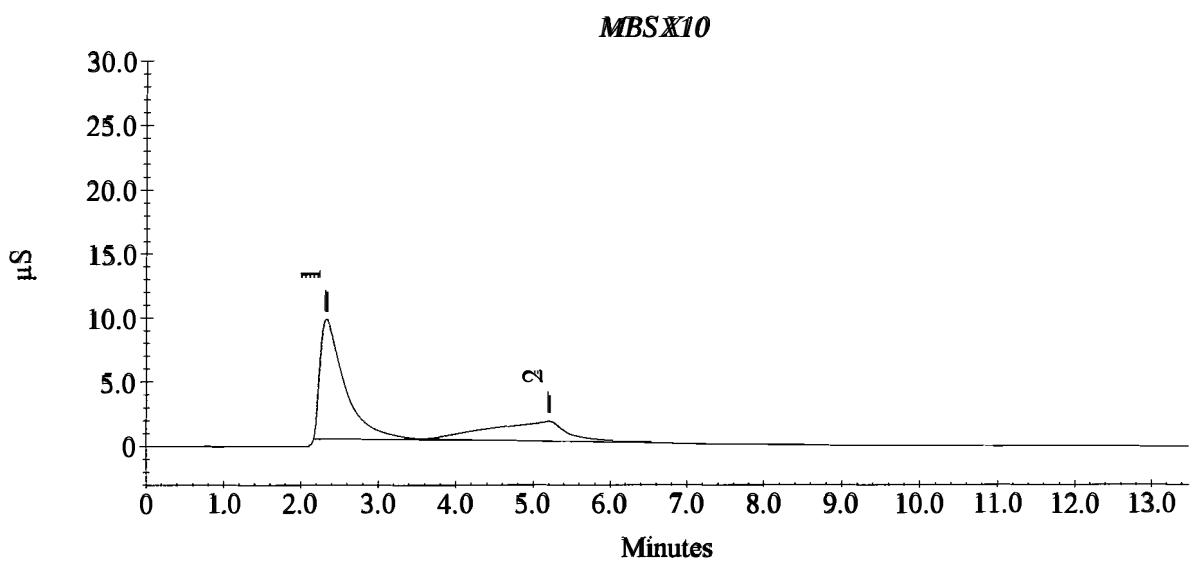
Sample Analysis Report

Sample Name: MBS X10
Data File Name: c:\instrument archives\data\system 2\72420\MBS X10_003.DXD

Method File Name: c:\instrument archives\methods\system 2\w24955.met
Date Time Collected: 12/11/2010 20:07:25
System Operator: RLD

Peak Information: Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded
2	Nitrite	5.18	4.3573	1046097	15230	



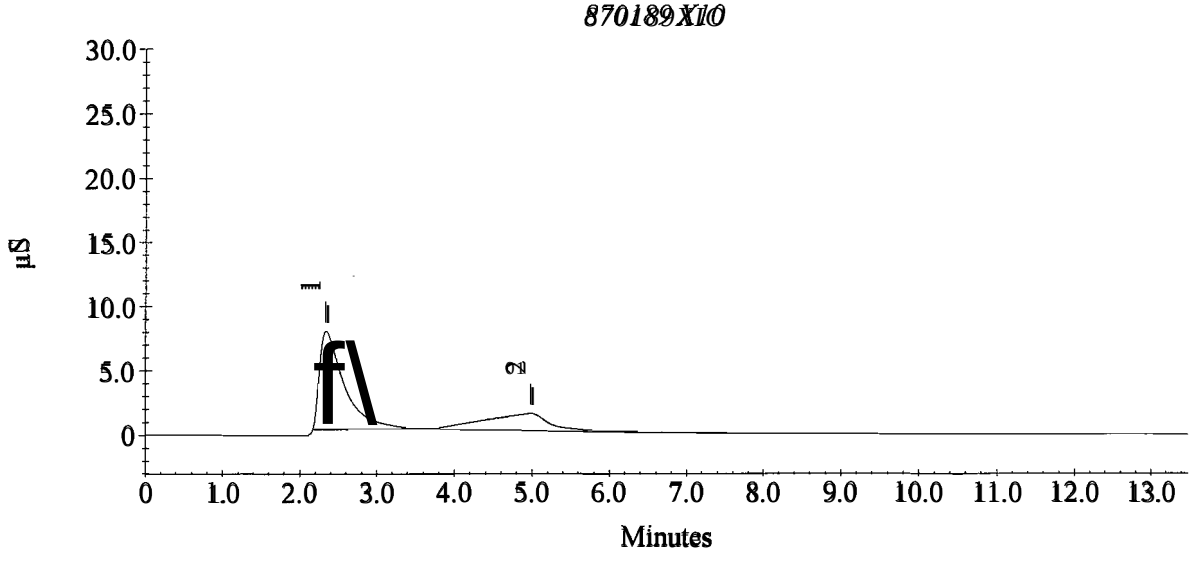
Sample Analysis Report

Sample Name: 870189 X10
Data File Name: c:\instrument archives\data\system 2\72420\870189 X10_004.DXD

Method File Name: c:\instrument archives\methods\system 2\w24955.met
Date Time Collected: 12/11/2010 20:23:06
System Operator: RLD

Peak Information: Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded



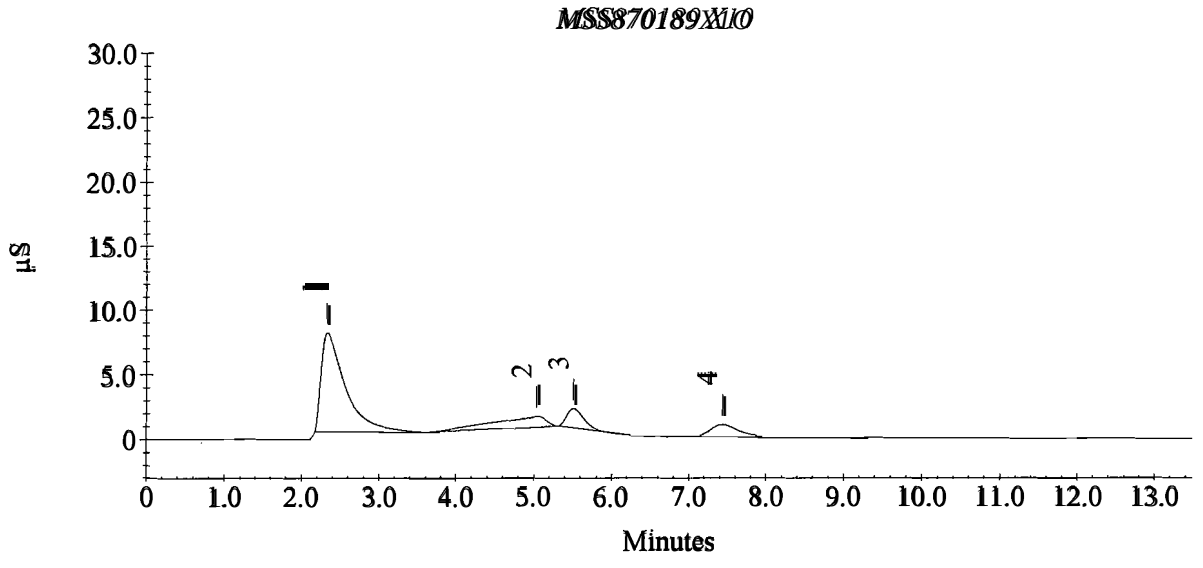
Sample Analysis Report

Sample Name: MSS870189 X10
Data File Name: c:\instrument archives\data\system 2\72420\MSS870189 X10_005.DXD

Method File Name: c:\instrument archives\methods\system 2\w24955.met
Date Time Collected: 12/11/2010 20:38:53
System Operator: RLD

Peak Information: Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded
3	Nitrite	5.52	0.9512	217900	14848	
4	Nitrate	7.43	0.8235	252110	9544	



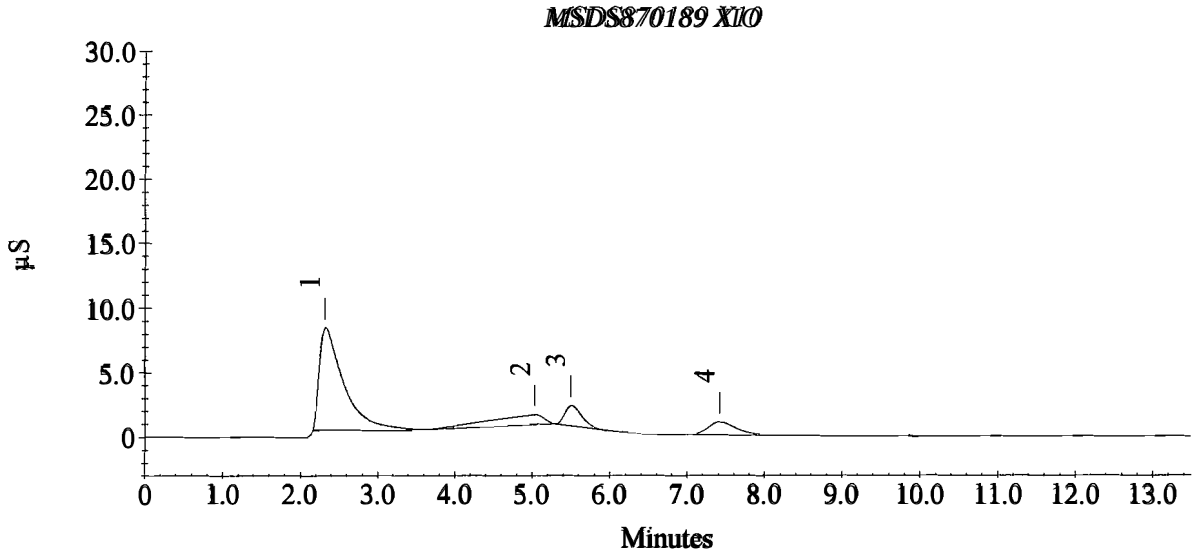
Sample Analysis Report

Sample Name: MSDS870189 X10
Data File Name: c:\instrument archives\data\system 2\72420\MSDS870189 X10_006.DXD

Method File Name: c:\instrument archives\methods\system 2\w24955.met
Date Time Collected: 12/11/2010 20:54:40
System Operator: RLD

Peak Information: Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded
3	Nitrite	5.50	1.0038	230699	15563	
4	Nitrate	7.42	0.8668	266091	10064	



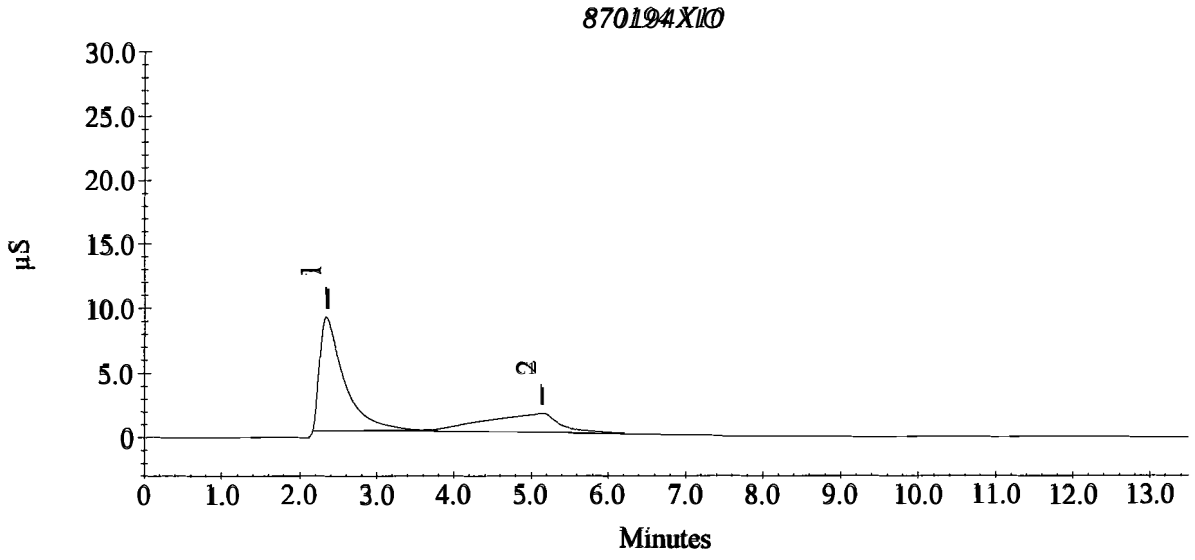
Sample Analysis Report

Sample Name: 870194 X10
Data File Name: C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\72420\870194 X10_007.DXD

Method File Name: c:\instrument archives\methods\system 2\w24955.met
Date Time Collected: 12/11/2010 21:10:26
System Operator: RLD

Peak Information: Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded



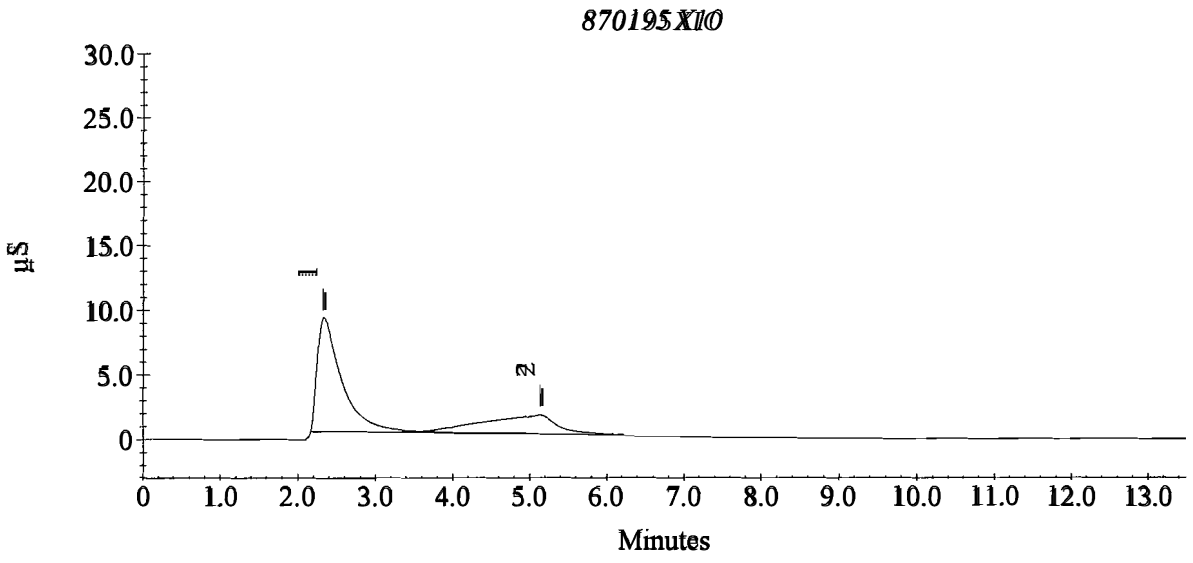
Sample Analysis Report

Sample Name: 870195 X10
Data File Name: C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\72420\870195 X10_008.DXD

Method File Name: c:\instrument archives\methods\system 2\w24955.met
Date Time Collected: 12/11/2010 21:26:13
System Operator: RLD

Peak Information: Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded



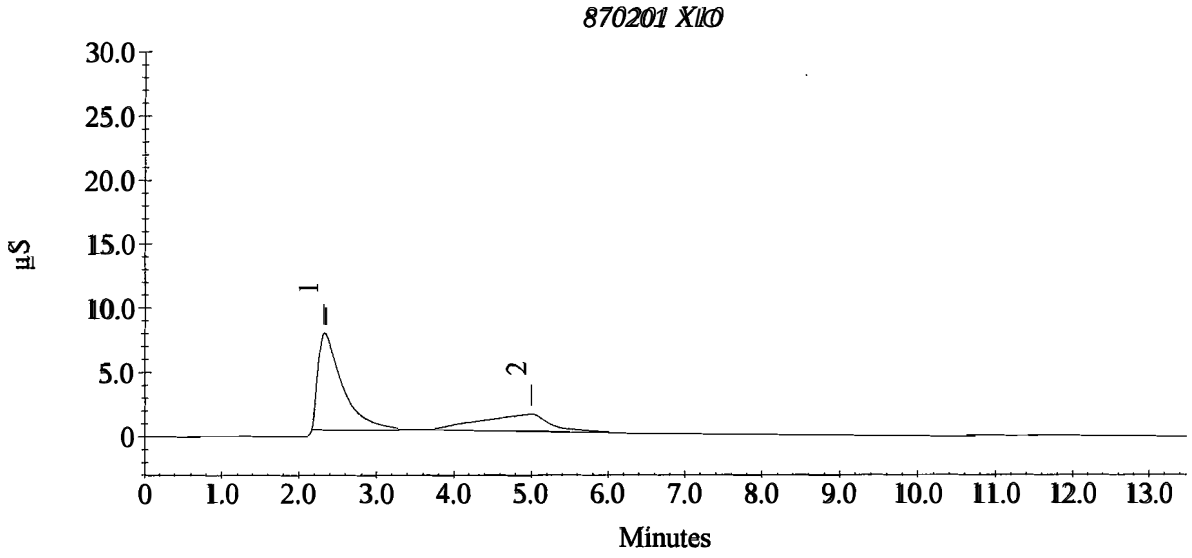
Sample Analysis Report

Sample Name: 870201 X10
Data File Name: c:\instrument archives\data\system 2\72420\870201 X10_009.DXD

Method File Name: c:\instrument archives\methods\system 2\w24955.met
Date Time Collected: 12/11/2001 21:41:59
System Operator: RLD

Peak Information: Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded



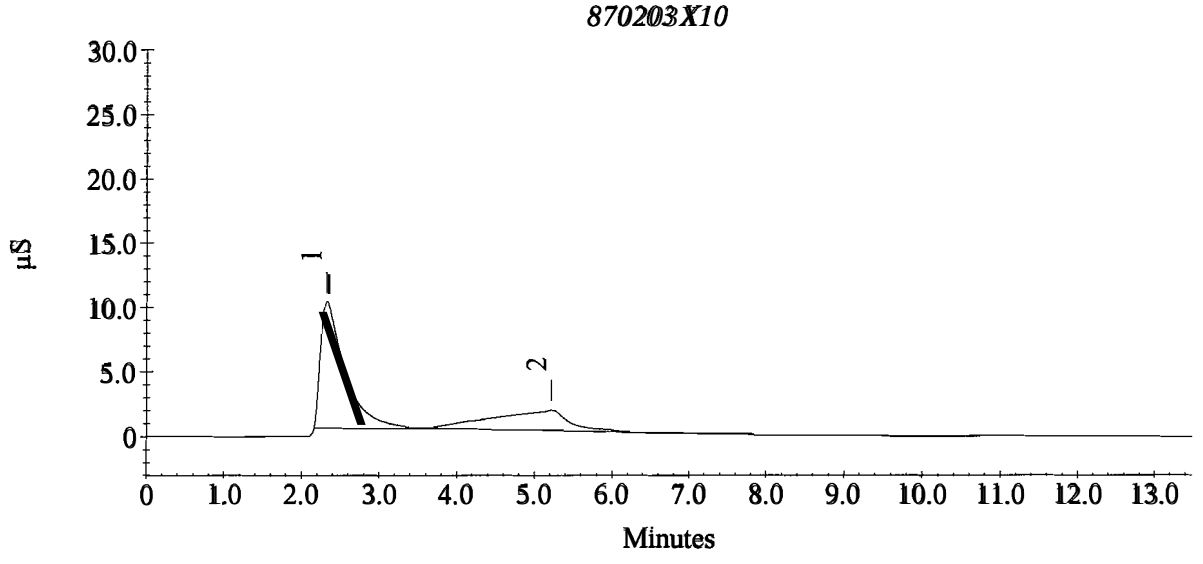
Sample Analysis Report

Sample Name: 870203 X10
Data File Name: C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\72420\870203 X10_010.DXD

Method File Name: c:\instrument archives\methods\system 2\w24955.met
Date Time Collected: 12/11/2010 21:57:46
System Operator: RLD

Peak Information: Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded



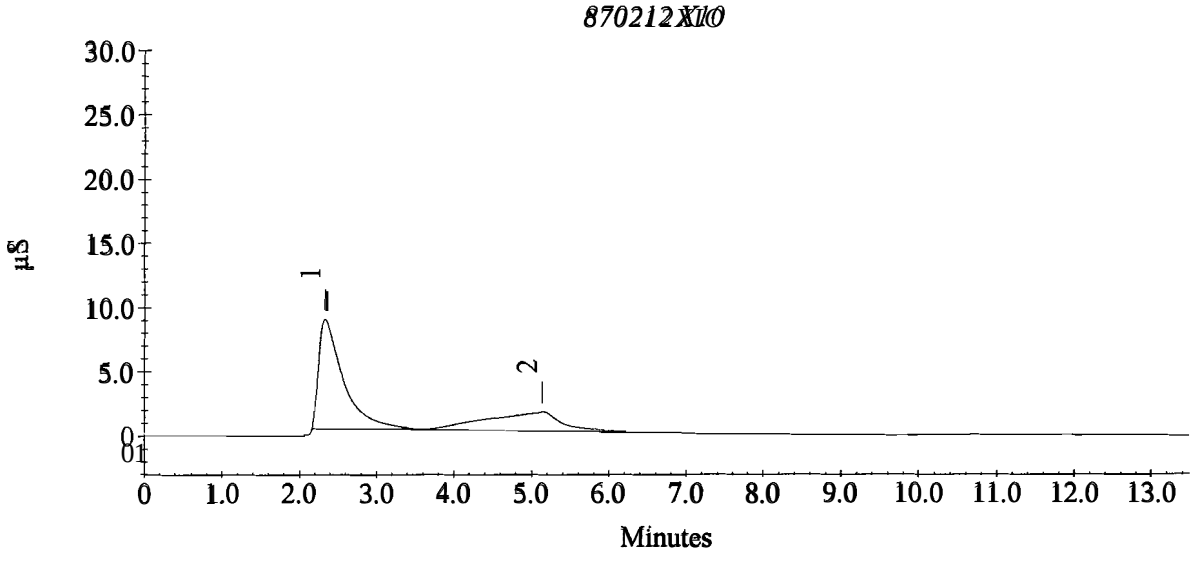
Sample Analysis Report

Sample Name: 870212 X10
Data File Name: C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\72420\870212 X10_011.DXD

Method File Name: c:\instrument archives\methods\system 2\w24955.met
Date Time Collected: 12/11/2010 22:13:32
System Operator: RLD

Peak Information: Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded



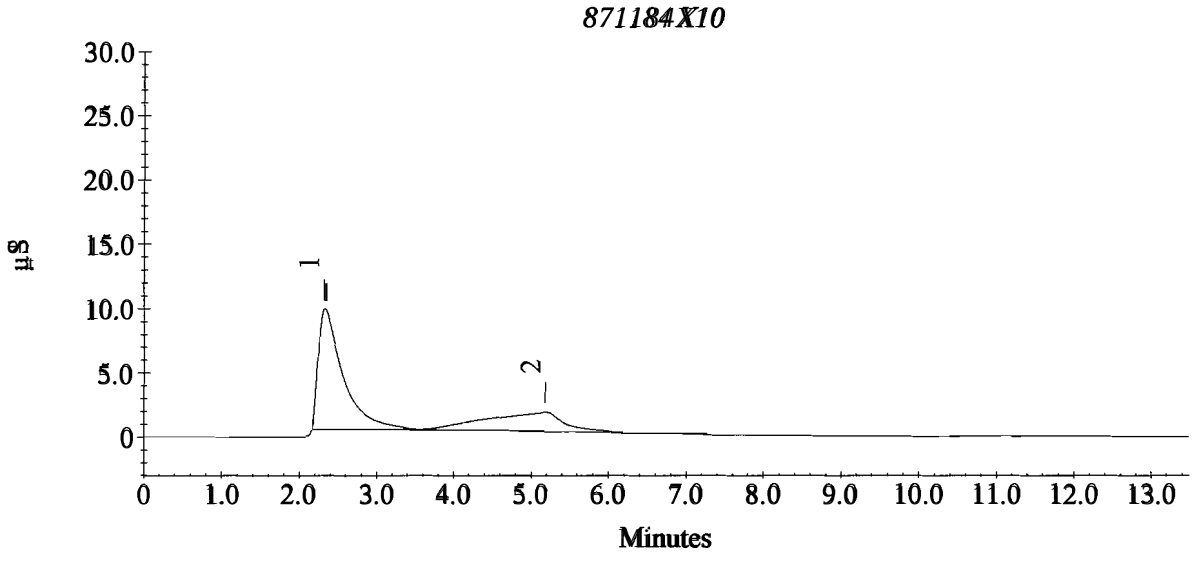
Sample Analysis Report

Sample Name: 871184 X10
Data File Name: c:\instrument archives\data\system 2\72420\871184 X10_012.DXD

Method File Name: c:\instrument archives\methods\system 2\w24955.met
Date Time Collected: 12/11/2010 22:29:19
System Operator: RLD

Peak Information: Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded



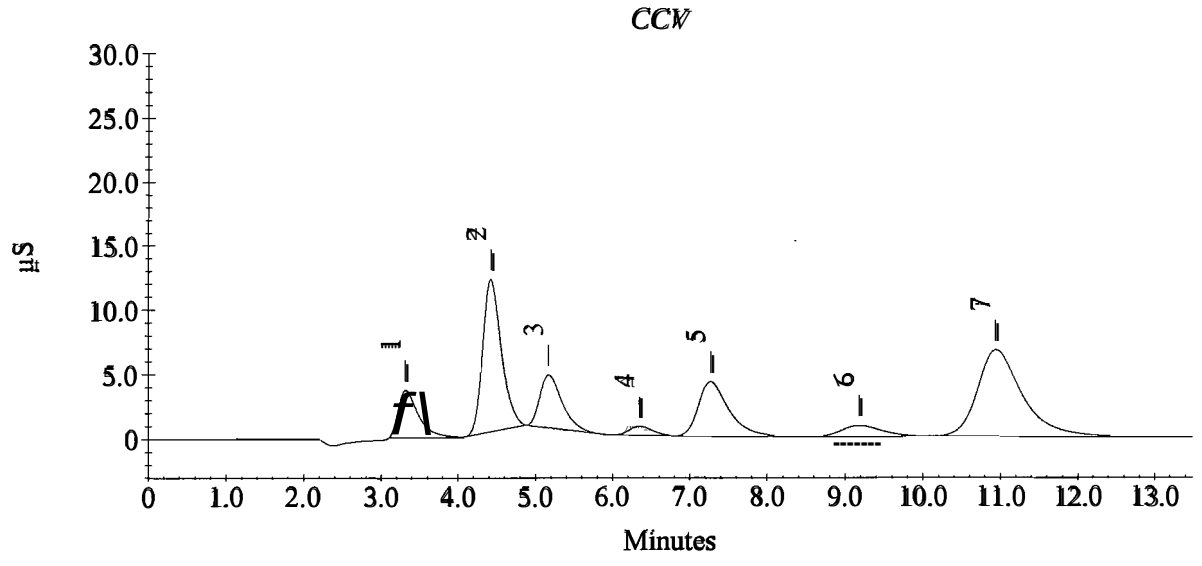
Sample Analysis Report

Sample Name: CCV
Data File Name: C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\72420\CCV_013.DXD

Method File Name: c:\instrument archives\methods\system 2\w24955.met
Date Time Collected: 12/11/2010 22:45:06
System Operator : RLD

Peak Information: Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded
1	Fluoride	3.32	3.5196	650814	36293	
2	Chloride	4.42	14.3046	1997265	118405	
3	Nitrite	5.17	3.4392	822875	40842	
4	Bromide	6.35	3.2879	142784	6865	
5	Nitrate	7.27	3.6239	1156836	42218	
6	O.Phos	9.18	4.3761	313201	8627	
7	Sulfate	10.93	25.0468	2743805	67308	



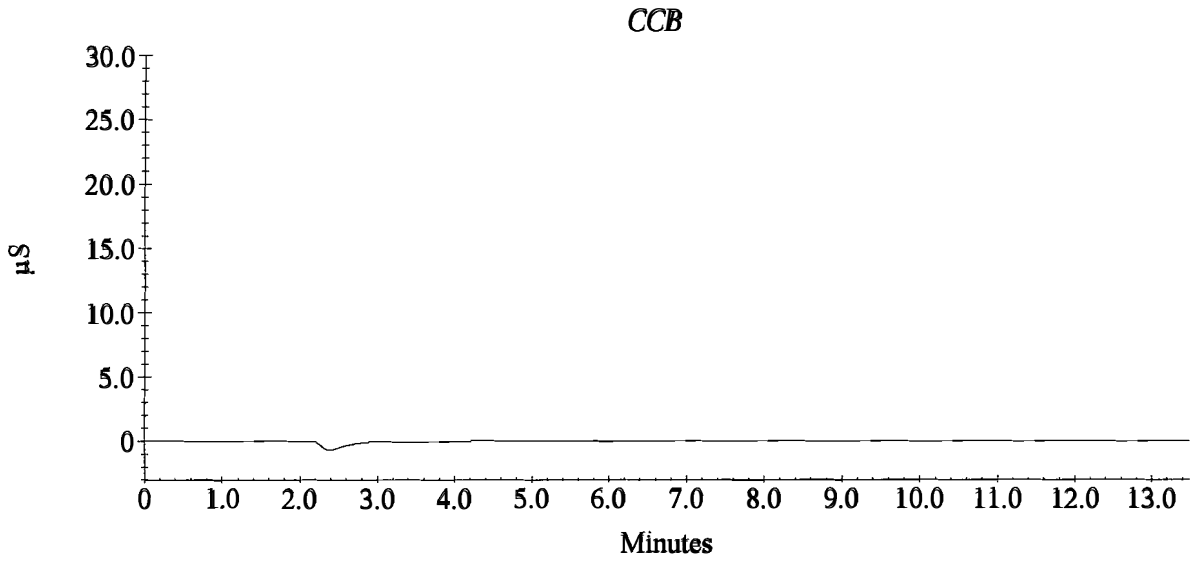
Sample Analysis Report

Sample Name: CCB
Data File Name: c:\instrument archives\data\system 2\72420\CCB_014.DXD

Method File Name: c:\instrument archives\methods\system 2\w24955.met
Date Time Collected: 12/11/2010 23:00:52
System Operator: RLD

Peak Information: Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded



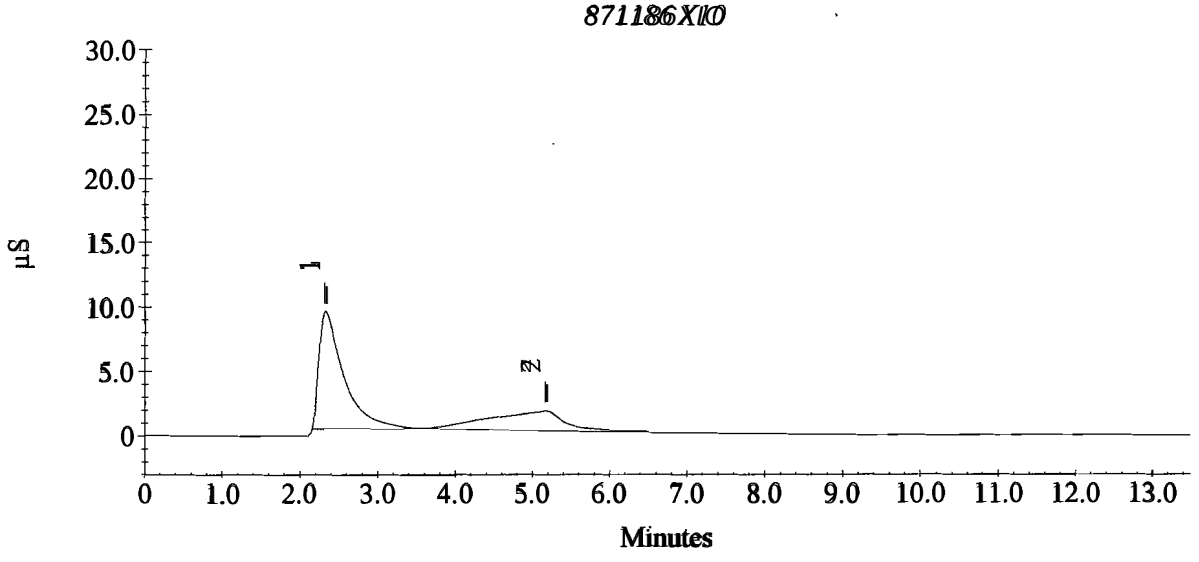
Sample Analysis Report

Sample Name: 871186 X10
Data File Name: c:\instrument archives\data\system 2\72420\871186 X10_015.DXD

Method File Name: c:\instrument archives\methods\system 2\w24955.met
Date Time Collected: 12/11/2010 23:16:39
System Operator: RLD

Peak Information: Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded



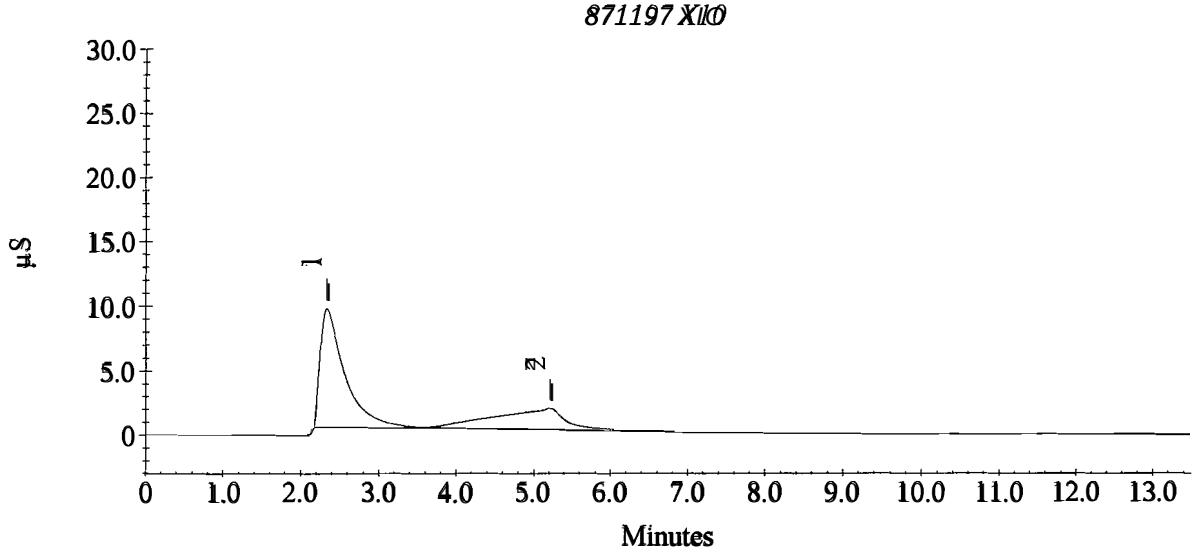
Sample Analysis Report

Sample Name: 871197 X10
Data File Name: c:\instrument archives\data\system 2\72420\871197 X10_016.DXD

Method File Name: c:\instrument archives\methods\system 2\w24955.met
Date Time Collected: 12/11/2010 23:32:26
System Operator: RLD

Peak Information: Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded



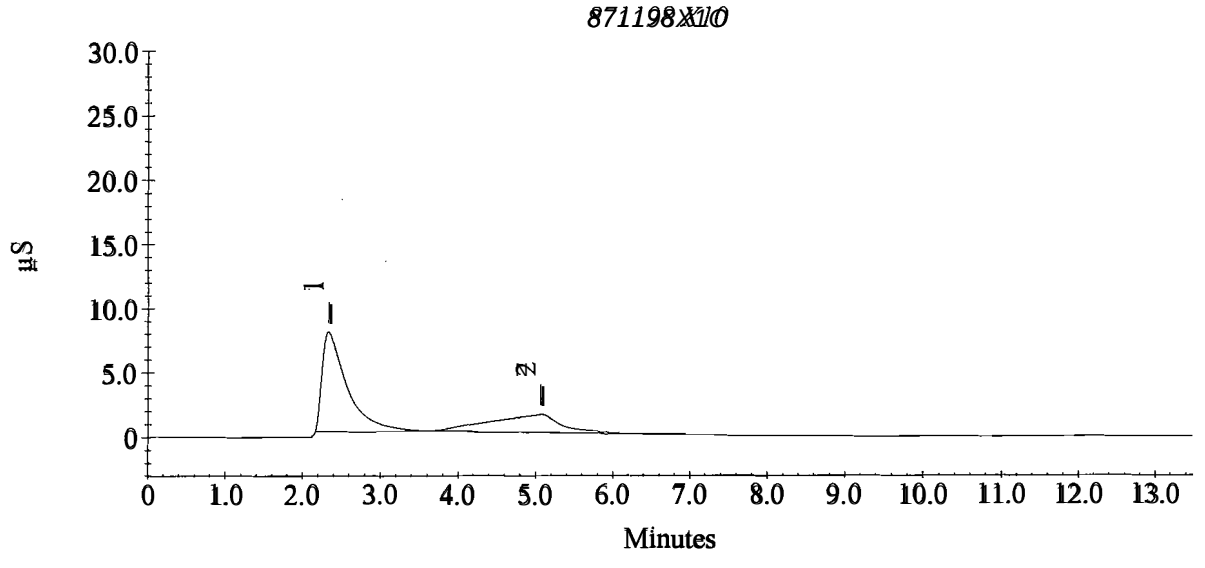
Sample Analysis Report

Sample Name: 871198 X10
Data File Name: c:\Instrument archives\data\system 2\72420\871198 X10_017.DXD

Method File Name: c:\instrument archives\methods\system 2\w24955.met
Date Time Collected: 12/11/201023:48:12
System Operator: RLD

Peak Information: Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded



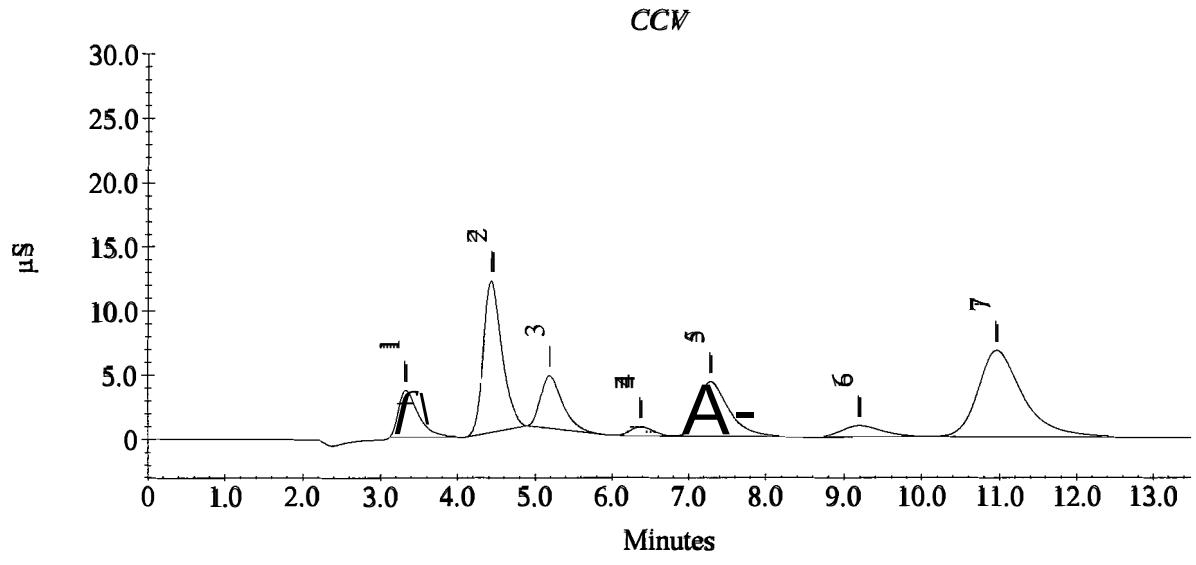
Sample Analysis Report

Sample Name: CCV
Data File Name: C:\INSTRUMENT ARCHIVES\DATA\SYSTEM 2\72420\CCV_025.DXD

Method File Name: c:\instrument archives\methods\system 2\w24955.met
Date Time Collected: 12/12/201001:54:25
System Operator : RLD

Peak Information: Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded
1	Fluoride	3.32	3.5596	658463	36371	
2	Chloride	4.43	14.2947	1995791	118121	
3	Nitrite	5.18	3.4481	825036	40983	
4	Bromide	6.37	3.2985	143252	6946	
5	Nitrate	7.27	3.6314	1159265	42281	
6	O.Phos	9.18	4.4120	315904	8742	
7	Sulfate	10.95	25.1894	2760034	67636	



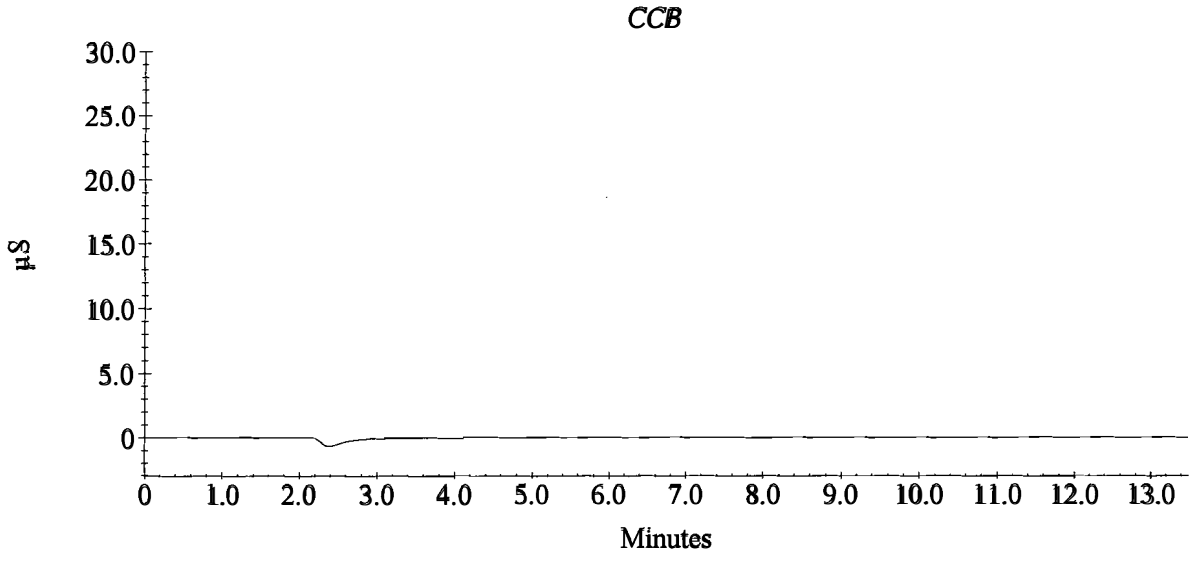
Sample Analysis Report

Sample Name: CCB
Data File Name: c:\instrument archives\data\system 2\72420\CCB_026.DXD

Method File Name: c:\instrument archives\methods\system 2\w24955.met
Date Time Collected: 12/12/2010 02:10:12
System Operator: RLD

Peak Information : Found Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height	Limit Exceeded



TOTAL SOLIDS (PERCENT)

LIMS #: 71954

Start Date:	**11/22/2010**	Method: SW846-5030A			**Analyst:**	JTG
	Sample ID#	**Dish#**	**Tared Weight g** *(D)*	**Wet Weight g** *(E)*	**Dry Weight g** *(F)*	**RESULTS % TOTAL SOLIDS**
1)	870200	861	2.36	14.13	13.81	97.3%
2)	870202	866	2.35	14.46	13.93	95.6%
3)	870203	862	2.34	14.89	14.47	96.7%
4)	870204	863	2.37	14.19	13.69	95.8%
5)	870207	864	2.39	14.42	14.03	96.8%
6)	871184	865	2.37	16.94	16.66	98.1%
7)	871186	856	2.37	17.45	17.31	99.1%
8)	871187	857	2.34	15.67	15.40	98.0%
9)	871188	858	2.39	14.5	14.22	97.7%
10)	871189	859	2.45	17.9	17.58	97.9%
11)	871190	860	2.34	13.43	13.19	97.8%
12)	871191	854	2.35	14.76	14.49	97.8%
13)	871192	849	2.37	14.23	14.02	98.2%
14)	871193	850	2.34	18.72	18.41	98.1%
15)	871194	855	2.42	18.5	18.37	99.2%
16)	871195	844	2.37	22.17	22.00	99.1%
17)	871196	845	2.33	20.4	20.28	99.3%
18)	871197	848	2.41	17.57	17.42	99.0%
19)	871198	842	2.38	16.09	15.84	98.2%
*20)	870201	843	2.33	17.54	17.07	96.9%
Dup 20)	874181	853	2.34	15.49	15.07	96.8%

Dry Weight = Sample + Dish (gms)		*** 2nd Reading,**	17.07
Wet Weight = Sample + Dish (gms)			Set RPD: 0%
	Balance: XD-2200		
			*mg Difference 0

Start Time:	12:30
Stop Date:	11/23/2010
Stop Time:	10:00

Calculations

*2nd reading must be within 50mg of the 1st

% Total Solids = ((*F-D*)/(*E-D*))*100

RPD, % = Absolute value of…((Sample-Dup % TS)/(Average%TS))*100

INORGANICS
LOGBOOK
DOCUMENTS

WHEXCHROME Solids QSM Analytical Run
71974 on 11/23/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	870200	DLASS-005-0001-SO	11/9/2010 0920				HEX CHROME QSM SOIL	35540	S	4	
	870201	DLASS-014-0001-SO	11/9/2010 1525	Designated MS/MSD			HEX CHROME QSM SOIL	35540	S	4	
	870202	DLASS-011-0001-SO	11/9/2010 1500				HEX CHROME QSM SOIL	35540	S	4	
	870203	DLASS-014-0003-SO	11/9/2010 1535				HEX CHROME QSM SOIL	35540	S	4	
	870204	DLASS-030-0001-SO	11/10/2010 1316				HEX CHROME QSM SOIL	35540	S	4	
	870207	DLASS-026-0001-SO	11/9/2010 1600				HEX CHROME QSM SOIL	35540	S	4	
82458	871184	DLASS-032-0003-SO	11/11/2010 0900		USACE - LOUISVILLE	RAVENNA ORE PILES	HEX CHROME QSM SOIL	35540	S	4	
82458	871186	DLASS-042-0003-SO	11/11/2010 1230		USACE - LOUISVILLE	RAVENNA ORE PILES	HEX CHROME QSM SOIL	35540	S	4	
82458	871187	DLASS-035-0001-SO	11/11/2010 0931		USACE - LOUISVILLE	RAVENNA ORE PILES	HEX CHROME QSM SOIL	35540	S	4	
82458	871188	DLASS-036-0001-SO	11/11/2010 1045		USACE - LOUISVILLE	RAVENNA ORE PILES	HEX CHROME QSM SOIL	35540	S	4	
82458	871189	DLASS-031-0001-SO	11/11/2010 0945		USACE - LOUISVILLE	RAVENNA ORE PILES	HEX CHROME QSM SOIL	35540	S	4	
82458	871190	DLASS-039-0001-SO	11/11/2010 1000		USACE - LOUISVILLE	RAVENNA ORE PILES	HEX CHROME QSM SOIL	35540	S	4	
82458	871191	DLASS-037-0001-SO	11/11/2010 1310		USACE - LOUISVILLE	RAVENNA ORE PILES	HEX CHROME QSM SOIL	35540	S	4	
82458	871192	DLASS-034-0001-SO	11/11/2010 1030		USACE - LOUISVILLE	RAVENNA ORE PILES	HEX CHROME QSM SOIL	35540	S	4	
82458	871193	DLASS-038-0001-SO	11/11/2010 1043		USACE - LOUISVILLE	RAVENNA ORE PILES	HEX CHROME QSM SOIL	35540	S	4	
82458	871194	DLASS-044-0001-SO	11/11/2010 1235		USACE - LOUISVILLE	RAVENNA ORE PILES	HEX CHROME QSM SOIL	35540	S	4	
82458	871195	DLASS-041-0001-SO	11/11/2010 1020		USACE - LOUISVILLE	RAVENNA ORE PILES	HEX CHROME QSM SOIL	35540	S	4	
82458	871196	DLASS-040-0001-SO	11/11/2010 0920		USACE - LOUISVILLE	RAVENNA ORE PILES	HEX CHROME QSM SOIL	35540	S	4	
82458	871197	DLASS-042-0001-SO	11/11/2010 1220		USACE - LOUISVILLE	RAVENNA ORE PILES	HEX CHROME QSM SOIL	35540	S	4	

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

WHEXCHROME Solids QSM Analytical Run
71974 on 11/23/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)		CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
82458	871198		11/11/2010 0900			USACE - LOUISVILLE	RAVENNA ORE PILES	HEX CHROME QSM SOIL		S	**4**	
		DLASS-032-0001-SO							35540			
	874621							HEX CHROME QSM SOIL				
				MBS					35540			
	874622							HEX CHROME QSM SOIL				
				LCSS					35540			
	874623		11/9/2010 1525					HEX CHROME QSM SOIL				
		DLASS-014-0001-SO		DUP	870201				35540			
	874624		11/9/2010 1525					HEX CHROME QSM SOIL				
		DLASS-014-0001-SO		MSS	870201				35540			
	875415		11/9/2010 1525					HEX CHROME QSM SOIL				
		DLASS-014-0001-SO		MSS	870201				35540			
	875417							HEX CHROME QSM SOIL				
				PDSS	870201							
	875418							WHEXCHROME Solids QSM				
				CCB								
	875419							WHEXCHROME Solids QSM				
				CCB								
	875420							WHEXCHROME Solids QSM				
				CCB								
	875421							WHEXCHROME Solids QSM				
				CCV								
	875422							WHEXCHROME Solids QSM				
				CCV								
	875423							WHEXCHROME Solids QSM				
				CCV								
	875424							WHEXCHROME Solids QSM				
				CCV								
	875425							WHEXCHROME Solids QSM				
				ICB								
	875426							WHEXCHROME Solids QSM				
				ICV								

35 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

PREP WORKSHEET 2
on 11/23/2010

(2) 100
(3) 250
(4) 500
(5) 1000

Prep Batch: 35540
Date Prepped: _____

InSol: PbCr : W17092
Pt
Phosphate Buffer : W23039
Crt6 Dig soln: W25125

Prepped By: _____
Date Entered: _____

Folder #	Order	QC Type	Link	Test	Client Company Name	Client Sample Description	Matrix		Sample Date	Sample Due Date
	874621	MBS 1	0	HEX CHROME QSM SOIL	Sol. Spk: W23662 0.1mL		SOLID	Crt6 Ical: W25126 Crt6 ICV/LCS: W25127		
	874622	LCSS 6	0	HEX CHROME QSM SOIL	MgCl2: W22728		SOLID	Crt6 DR: W25128		
	870200	7		HEX CHROME QSM SOILUSACE - LOUISVILLE		DLASS-005-0001-SO	SOIL	2.5g	11/09/2010	11/23/2010
	870201	8*·9·10·11·12 (DP MSI MSS MSPDS)		HEX CHROME QSM SOILUSACE - LOUISVILLE		DLASS-014-0001-SO	SOIL		11/09/2010	11/23/2010
	870202	~~12~~ 13		HEX CHROME QSM SOILUSACE - LOUISVILLE		DLASS-011-0001-SO	SOIL		11/09/2010	11/23/2010
	870203	~~13~~ 14		HEX CHROME QSM SOILUSACE - LOUISVILLE		DLASS-014-0003-SO	SOIL		11/09/2010	11/23/2010
	870204	~~14~~ 15		HEX CHROME QSM SOILUSACE - LOUISVILLE		DLASS-030-0001-SO	SOIL		11/10/2010	11/23/2010
	870207	~~15~~ 16		HEX CHROME QSM SOILUSACE - LOUISVILLE		DLASS-026-0001-SO	SOIL		11/09/2010	11/23/2010
82458	871184	~~16~~ 17		HEX CHROME QSM SOILUSACE - LOUISVILLE		DLASS-032-0003-SO	SOIL		11/11/2010	11/24/2010
	871186	~~17~~ 18		HEX CHROME QSM SOILUSACE - LOUISVILLE		DLASS-042-0003-SO	SOIL		11/11/2010	11/24/2010
	871187	~~18~~ 19		HEX CHROME QSM SOILUSACE - LOUISVILLE		DLASS-035-0001-SO	SOIL		11/11/2010	11/24/2010
	871188	~~19~~ 20		HEX CHROME QSM SOILUSACE - LOUISVILLE		DLASS-036-0001-SO	SOIL		11/11/2010	11/24/2010
	871189	~~20~~ 21		HEX CHROME QSM SOILUSACE - LOUISVILLE		DLASS-031-0001-SO	SOIL		11/11/2010	11/24/2010
	871190	~~21~~ 22		HEX CHROME QSM SOILUSACE - LOUISVILLE		DLASS-039-0001-SO	SOIL		11/11/2010	11/24/2010
	871191	~~22~~ 23		HEX CHROME QSM SOILUSACE - LOUISVILLE		DLASS-037-0001-SO	SOIL		11/11/2010	11/24/2010
	871192	~~23~~ 24		HEX CHROME QSM SOILUSACE - LOUISVILLE		DLASS-034-0001-SO	SOIL		11/11/2010	11/24/2010
	871193	~~24~~ 25		HEX CHROME QSM SOILUSACE - LOUISVILLE		DLASS-038-0001-SO	SOIL		11/11/2010	11/24/2010

11-23-10 ~~16~~ 17

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PREP WORKSHEET 2
on 11/23/2010

Folder #	Order	QC Type	Link	Test	Client Company Name	Client Sample Description	Matrix		Sample Date	Sample Due Date
82458	871194	~~25~~ 26		HEX CHROME QSM SOILUSACE - LOUISVILLE		DLASS-044-0001-SO	SOIL	2.5g	11/11/2010	11/24/2010
	871195	~~26~~ 27		HEX CHROME QSM SOILUSACE - LOUISVILLE		DLASS-041-0001-SO	SOIL		11/11/2010	11/24/2010
11-23-10	871196	~~27~~ 28		HEX CHROME QSM SOILUSACE - LOUISVILLE		DLASS-040-0001-SO	SOIL		11/11/2010	11/24/2010
	871197	~~28~~ 29		HEX CHROME QSM SOILUSACE - LOUISVILLE		DLASS-042-0001-SO	SOIL		11/11/2010	11/24/2010
JTS	871198	~~29~~ 30		HEX CHROME QSM SOILUSACE - LOUISVILLE		DLASS-032-0001-SO	SOIL		11/11/2010	11/24/2010
	874623	DUP	870201	HEX CHROME QSM SOIL		DLASS-014-0001-SO	SOIL		11/09/2010	
	874624	MSS	870201	HEX CHROME QSM SOIL		DLASS-014-0001-SO	SOIL		11/09/2010	
	874625	MSDS	874624	HEX CHROME QSM SOIL		DLASS-014-0001-SO	SOIL		11/09/2010	

Control Spike/Control Spike Dup Reference Number:_____ Methanol Supplier/Lot #:_____

Notes:_____

PREP WORKSHEET
on 11/23/2010

Prep Batch **35,540**

Date Prepped: 11/23/2010

Prepped By:: JTG

Date Entered:

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
	874621	MBS		HEX CHROME QSM SOILSOLID		100	2.5			
	874622	LCSS		HEX CHROME QSM SOILSOLID		100	2.5			
	870200			HEX CHROME QSM SOILSOIL		100	2.5		N	
	870201	*		HEX CHROME QSM SOILSOIL		100	2.5		N	
	870202			HEX CHROME QSM SOILSOIL		100	2.5		N	
	870203			HEX CHROME QSM SOILSOIL		100	2.5		N	
	870204			HEX CHROME QSM SOILSOIL		100	2.5		N	
	870207			HEX CHROME QSM SOILSOIL		100	2.5		N	
82458	871184			HEX CHROME QSM SOILSOIL		100	2.5		N	
	871186			HEX CHROME QSM SOILSOIL		100	2.5		N	
	871187			HEX CHROME QSM SOILSOIL		100	2.5		N	
	871188			HEX CHROME QSM SOILSOIL		100	2.5		N	
	871189			HEX CHROME QSM SOILSOIL		100	2.5		N	
	871190			HEX CHROME QSM SOILSOIL		100	2.5		N	
	871191			HEX CHROME QSM SOILSOIL		100	2.5		N	
	871192			HEX CHROME QSM SOILSOIL		100	2.5		N	
	871193			HEX CHROME QSM SOILSOIL		100	2.5		N	

PREP WORKSHEET
on 11/23/2010

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
82458	871194			HEX CHROME QSM SOIL	SOIL	100	2.5		N	
	871195			HEX CHROME QSM SOIL	SOIL	100	2.5		N	
	871196			HEX CHROME QSM SOIL	SOIL	100	2.5		N	
	871197			HEX CHROME QSM SOIL	SOIL	100	2.5		N	
	871198			HEX CHROME QSM SOIL	SOIL	100	2.5		N	
	874623	DUP	870201	HEX CHROME QSM SOIL	SOIL	100	2.5			
	874624	MSS	870201	HEX CHROME QSM SOIL	SOIL	100	2.5			
	875415	MSS	870201	HEX CHROME QSM SOIL	SOIL	100	2.5			

Control Spike/Control Spike Dup Reference Number:_____ Methanol Supplier/Lot #:_____
Notes:_____

Data Validation Checklist

LIMS #: 71974	Method: Hexavalent Chromium- Alkaline digestion SW846-3060A/7196A			
Analysis Date	Analyst / Data Interpreter	Independent Reviewer	Date of Review	Approved
11-23-10	JTG / JTG	mm	11-28-10	(Yes) ... No

Instructions: Complete one checklist per *analytical run*. Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section, and may require the initiation of a Nonconformance Report.

Requirement:	Acceptance Criteria	Analyst Review Yes	Analyst Review No	Independent Review Yes	Independent Review No	Comments: (indicate reference to an attachment if necessar
1. Were the samples analyzed within hold time?	30 days	X		X		
2. Was the calibration performed using the required number of standards?	Five plus a blank					
3. Is the standard prep log number noted on the analytical report?	---					
3. Was the correlation coefficient acceptable?	>= 0.995					
4. Were the ICV and ICB run immediately after the calibration curve?	---					
5. Was the ICV recovery acceptable?	90 – 110 %					
6. Was the ICB result acceptable?	< LOD					
7. Were the CCV's and the CCB's analyzed at the required frequency?	1per 10 samples					
8. Were the CCV recoveries acceptable?	90 – 110 %					
9. Were the CB results acceptable?	< LOD					
10. Was a LCS ran at the required frequency?	1 per 20 samples					
11. Was the LCS recovery acceptable?	80-120 %					
12. Was the LCS used before the indicated expiration date?	---					
13. Were samples results corrected for sample color affects?						
14. Were the MS and MSD prepared at the required frequency?	1per 20 field samples					
15. Were the MS and MSD recoveries acceptable?	Within in house QC limits		X		X	MSSIS, MSSS, PDS01 SPK fail M flag
16. Was the RPD between the MS and MSD acceptable?	Within in house QC limits			X		
17. Are all sample on the job lists accounted for?	---			X		

Instrument Run Log

			Instrument ID:	Milton Roy Spectronic 401	Spectrophotometer		
Date	Time Start/End	Analyst	Analytes	Samples Analyzed	Cal Std ID		Comments
10-20-10	1500 - 1530	JTG	COD	71122	Test 02		
10-20-10	1545 - 1630	JTG	Chlor. A	71138	—		
10-21-10	1030 - 1035	JTG	COD	71122	Test 02		
10/26/10	1550-1700	ESL	Cr^{+6}	35227-35228	—		
10-27-10	1530 - 1550	JTG	Chlor. A	71309 thru 71310	—		
10-28-10	1445 - 1500	JTG	Chlor. A	71390	—		
11-1-10	1615 - 1630	JTG	Chlor. A	71425	—		
11-2-10	1545-1615	KWS	COD	71439, 71440	Test 02		
11-5-10	1340-1350	ESL	Chlor A	71528	—		
11-9-10	1420 - 1445	JTG	Chlor A	71609 71620	—		
11-12-10	1400 - 1430	ESL	Cr^{+6}	71721			
11-16-10	1330 - 1340	ESL	COD	71788+71789	Test 02		
11-17-10	1640 - 1715	ESL	Chlor A	71858, ~~71857~~ 71857, 71860	—		
11-17-10	1645 - 1700	JTG	Chlor A	71895	—		
11-23-10	1430 - 1545	SMTG	Cr^{+6}	71961 thru 71964	—		
11-24-10	1435 - 1505	ESL	Cr^{+6}	71917	—		
11-30-10	0945 - 1010	ESL	COD	72033, 72033T	Test 02		
11-30-10	1405 - 1430	JTG	Chlor A	72089, 72090	—		
12-7-10	1600 - 1630	KWS	Chl. A	72172, 72173	—		
12-7-10	1350 - 1440	JTG	Cr^{+6}	72177-78	—		

Spec. 401 Accuracy Check / Maintenance Logbook

Date/Time	*Acceptance Range: +/- 2 nm 529 nm	742 nm	Analyst	Comments or Performed Maintenance:
10-13-10 JTG 1015	530	741	JTG	
~~10-13-10~~ 10-14-10 1000 JTG	530	741	JTG	
10-15-10 1545	530	741	JTG	
10-18-10 1415	530	741	JTG	
10/19/10 1700	530	741	CES	
10-20-10 1500	530	741	JTG	
10-21-10 1000	530	741	JTG	
~~10/25/10~~ 10/26/10 1550	530	741	EJC	
10-27-10 1520	530	741	JTG	
10-29-10 1445	530	741	JTG	
11-1-10 1615	530	741	JTG	
11-2-10 1545	530	741	KMB	
11-5-10 1300	530	741	CES	
11-9-10 1420	530	741	JTG	
11-12 10 1400	530	741	CES	
11-16-10 1325	530	741	EJC	
11-17-10 1640	530	741	EJC	
11-18-10 1600	530	741	JTG	
11-23-10 1430	530	741	JTG	
11-24-10 1435	530	741	EJC	
11-30-10 0940	530	741	CES	

*If values obtained are not within Acceptance Range, correct and document the problem then re-check the accuracy.

Reviewed By:_____

Mettler Toledo (Easy Seven) Instrument Run Logbook

Date	Start Time	End Time	Test (Analyte)	Sample Run # (s)	Comments:
11-22-10 KMB	1130	1145	NH_3	35527	
11-22-10 KMB	1230	1240	pH	71964	
11-22-10 KMB	1530	1600	NH_3	35529	
11-23-10 KMB	1000	1030	pH	71983	
11-23-10 JTG	1345	1430	Cr^{+6}	71974	
11-24-10 EJC	1350	1420	Cr^{+6}	72017	
11-29-10 EJC	1100	1125	NH_3	35578	
11-29-10 EJC	1320	1355	NH_3	35581	
11-30-10 JTG	1230	1245	NH_3	35593, 35594	
12-2-10 KMB	1445	1530	pH	72195, 72196, 72197	
12-6-10 JTG	0925	1010	NH_3	35666	
〃	1200	1300	NH_3	35666, 35667	
12-7-10 JTG	1300	1330	Cr^{+6}	35690	
12-8-10 CES	1500	1530	Cr^{+6}	35712	
12-9-10 JTG	1000	1500	pH	72354, 72355, 72352, 72353	

Daily pH Calibration & Maintenance Logbook

	pH Buffer Reference ID #			----3 Point Calibration----					
Date	Analyst	pH 7	pH 4	pH 10	1st Buffer	2nd Buffer	3rd Buffer	Slope %	Temp. °C	Comments / Maintenance Performed (if any)
10/19/10	CES	W22927	W22926	~~W21508~~	7.02	4.00	10.06	97	20.3	
10/20/2010	CES			W23967	7.02	4.00	10.07	97	18.9	
10-21-10	JTG			11477	7.03	4.00	10.07	100	14.9	
10/22/10	CES				7.02	4.00	10.07	96	18.5	
10-25-10	JTG				7.02	4.00	10.05	97	20.7	
10/26/10	ESC				7.02	4.00	10.05	97	20.9	
10-28-10	~~JTG~~				7.03	4.00	10.07	97	18.8	
11-1-10	KMO				7.03	4.00	10.07	100	18.1	
11-5-10	CES				7.02	4.00	10.07	99	19.3	
11-8-10	JTG				7.02	4.00	10.06	98	20.2	
~~11-8-10~~	~~JTG~~									
11/9/10	EJC				7.02	4.00	10.06	97	20.2	
11/12/10	CES				7.00	4.00	10.06	98	20.2	
11/15/10	CES				7.02	4.00	10.08	98	19.0	
11-16-10	JTG				7.02	4.00	10.06	97	19.7	
11-17-10	mml	W22927	W22926	W23967	7.02	4.00	10.06	99	20.1	
11-22-10	KMO				7.01	4.00	10.07	96	21.1	
11-23-10	KMO				7.02	4.00	10.05	100	21.0	
11-24-10	ESC				7.02	4.00	10.06	100	19.8	
11-29-10	EJC				7.02	4.00	10.06	99	20.1	
11-30-10	JTG				7.02	4.00	10.06	97	19.9	

W25297 CES 12/10/10 — IC NO_2 + F^- spike - Into a 100mL vol pipetted 12.8mL NO_2 W25160 + 3.2mL F W29612 + filled to vol w/ dI H_2O. exp 1/10/11

W25298 KMB 12-10-10 — TKN / Phos Dig Soln - Into a 2L VF dissolved 266g potassium sulfate W24726 and volumetrically added 50mL Mercuric Sulfate W25102 and 400mL H_2SO_4 W24986, brought to vol w/ DI H_2O. Exp. 1-10-11

W25299 EJC 12/10/10 — Pyridine: Into a 500mL vol. dissolved 7.5g barbituric acid W22756, 7.5mL HCl W24267 & volumetrically added 37.5mL pyridine W23188 & brought to vol. w/ DI H_2O exp: 12/17/10

W25300 EJC 12/10/10 — Chloramine T: Into a ~~250~~ 500 mL vol. dissolved 2g Chloramine T W22491 + brought to vol w/ DI H_2O exp: 12/11/10 EJC 12/10/10

W25301 CES 12/10/10 — Prepped 12-8-10 Cr^{+6} LCS - Into a 50mL vol pipetted 5mL W23663 - filled to vol w/ dig soln W25231. exp 12-9-10

W25302 CES 12/10/10 — Prepped 12-8-10 Cr^{+6} soil DPC - Into a 200mL vol dissolved 1g DPC W25133 in acetone. Baker lot# J14E52 Cat # 9254-05 exp 12-9-10

W25303 CES 12/10/10 — Prepped 12-8-10 Cr^{+6} MDL Study - Into 8 dig tubes pipetted 0.025mL W23660 + brought to 50mL w/ dig soln W25231. exp 12-9-10

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Read and Understood By

Signed Date Signed Date

PROJECT _____ Notebook No. _____ 17

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W25234 JTh 12-7-10 — Cr^{+6} DPC: into a 200mL vf dissolved 1g W25133 in ~~acetone~~ JTh 12-7-10 acetone, & BN w/ acetone JT Baker lot# J14 ES2 exp: July 31, 2011 exp: 12-8-10

W25234 EJC 12-7-10 — TNTP bypo chlorite - Into a 500mL vol volumetrically added 30 mL bleach W24747 & filled to vol w/ DI # 220. exp 12-8

W25235 EJC 12-7-10 — CN LCS working: Into a ~~100mL~~ EJC 12-7-10 200mL vol. pipetted 2mL W25034 & brought to vol. w/ 0.25N NaOH W25236 exp: 12/14/10 tv = 10,000 mg/L

W25236 EJC 12-7-10 — 0.25N NaOH: Into a 2L vol. dissolved 60g NaOH W24679 & brought to vol. w/ DI H_2O & to a final vol. of 6L in a large carboy exp: 1/7/11

W25237 EJC 12-7-10 — CN LCS: Into a 200mL vol. pipetted 1mL W25235 & brought to vol. w/ 0.25N NaOH W25236 exp: 12/14/10 tv = 50 mg/L

W25238 EJC 12-7-10 — CN ICAL/CCV working std Into a ~~100mL~~ 200mL EJC 12-7-10 vol. pipetted 2mL W20763 & brought to vol. w/ 0.25N NaOH W25236 tv = 10,000 mg/L

W25239 EJC 12-7-10 — CN ICAL using W25238 & to vol. w/ 0.25N NaOH W25236

2mL → 200 = 100 mg/L

1.5mL → 200 = 75 mg/L

EJC 12-7-10 1mL ~~0.5mL~~ → 200 = 50 mg/L

using 100 mg/L std

15mL → 50 = 30 mg/L

40mL → 200 = 20 mg/L

5mL → 50 = 10 mg/L

W25240 EJC 12-7-10 — CN LOQWV: Into a 50mL vol. pipetted 0.03mL W25235 & brought to vol. w/ 0.25N NaOH W25236 exp: 12/14/10 tv = 6 mg/L

W25241 EJC 12-7-10 — CN LOQWV: Into a 50mL vol. pipetted 0.1mL W25235 & brought to vol. w/ 0.25N NaOH W25236 exp: 12/14/10 tv = 20 mg/L

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Read and Understood By

Signed Date Signed Date

* W25223 mml 12-5-10 VFA MDL Study into 8 100ml Vol. pipetted 0.2ml W23340 + 2.5ml W25093 + brought to vol. w/ MilliQ H_2O

* W25224 mml 12-5-10 VFA LOD check into a 100ml Vol. pipetted 0.08ml W25084 + brought to Vol. w/ Eluent W25219 TV= 0.8mg/L

* W25225 mml 12-5-10 VFA LOQ check into a 100ml Vol. pipetted 0.25ml W25219 + brought to Vol. w/ eluent W25219 TV= 2.5mg/L

W25226 KWB 12-6-10 Ascorbic Acid Reag- Into a 500mL VF dissolved 30g Ascorbic W24793 and 0.5g SDS W23748 and BTV w/ DI H_2O. exp. 12-7-10

W25227 JTG 12-6-10 NH_3 LCS: into a 200mL VF pipetted 1mL W25114 + BTV w/ DI H_2O. exp: 12-13-10

W25228 JTG 12-6-10 JTG 12-6-10 Boric Rec. soln: into a 1L vol dissolved 20g ~~W21756~~ 25121 JTG 12-6-10 + BTV w/ DI H_2O. exp: 1-6-11

* W25229 ESC 12/6/10 VFA Regenerate: Into a 2L vol. pipetted 10mL W25116 + brought to vol. w/ MilliQ DI H_2O

W25230 KWB 12-6-10 Ti Phos Carrier - Into a 1L VF dissolved 31.7g Potassium Sulfate W24726 and 48mL H_2SO_4 W24984 and BTV w/ DI H_2O. Exp. 1-6-11

W25231 JTG 12-7-10 Cr^{+6} Dig soln: into a 2L vol. dissolved 60g Sodium Carbonate anhydrous W20910 W25136 + 40g NaOH W23679 + BTV w/ DI H_2O. exp: 12-7-11

W25232 JTG 12-7-10 Cr^{+6} Ical: into 5 50mL VF pipetted 0, 1, 2.5, 5, 10mL W23661 + BTV w/ Dig soln W25231. exp: 12-8-10

W25233 JTG 12-7-10 Cr^{+6} ICV/LCS: into a 50mL VF pipetted 5mL W23663 + BTV w/ Dig soln W25231. exp: 12-8-10

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Read and Understood By

Signed Date Signed Date

PROJECT _____ Notebook No. _____ 9

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W25153 KMB 11-24-10 — NH_3 H_2SO_4 LOD ✓ - Into a 100mL VF pipetted 0.01mL W24182 and BTV w/ Dilunt W25055. Exp. 12-1-10 TV = 0.10mg/L

W25154 ESC 11/24/10 — Cr^{+6} Soil DPC: Into a 200mL vol. dissolved 1g W25133 in acetone JT Baker, Lot # 30E21 Cat # 9254-03 & to vol. w/ acetone exp: 11/25/10

W25155 ESC 11/24/10 — TKN/TPhos LCS: Into a 1L vol. pipetted 10mL W23501 & W25114 & brought to vol. w/ DI H_2O exp: 12/22/10

W25156 JTC 11-29-10 — TSS LCS: into a 1L vol. dissolved 0.4g W24339 & BTV w/ DI H_2O. exp: 12-29-10

W25157 CES 11/29/10 — TKN/TPhos dulunt - Into a 2L vol volumetrically added 480 mL dig soln W25103 & filled to vol w/ dI H_2O. exp 12/29/10

W25158 CES 11/29/10 — TKN/TPhos 250mg/L Ical/CCV Std - Into a 100 mL vol pipetted 25mL W24182 & W23289 & filled to vol w/ dI H_2O. exp 12/29/10

W25159 CES 11/29/10 — TKN/TPhos Ical using W25158 & to vol w/ W25152.

		into
A	8	100
B	20	500
C	28	100
D	2.0	
E	0.8	
F	0.4	
G	0.2	
H	0.04	
I	0	

W25160 KMB 11-29-10 — AccuSpec Nitrite Standard 1000 mg/L Cat # 250-220-551 LOT # SC0193201 Expires 11-29-11.

W25161 CES 11/29/10 — TKN hypochlorite - Into a 500mL vol pipetted 50mL bleach W24747 & filled to vol w/ dI H_2O. exp 11/30/10

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W25143 ESC 11/23/10 Methyl Orange soln: Into a 1L vol. volumetrically added 100mL methyl orange soln W23178 & brought to vol. w/ CO_2 free DI H_2O exp: 12/23/10

W25144 ESC 11/24/10 Cr^{+6} ICV/LCS: Into a 50mL vol. pipetted 5mL W23663 & brought to vol. w/ Dig Soln W25125 exp: 11/25/10 tv = 500 mg/L

W25145 ESC 11/24/10 Cr^{+6} MRLS✓ LOQS✓: Into a 50mL vol. pipetted ~~0.8mL~~ 1.6 ESC 11/24/10 mL W23663 & brought to vol. w/ Dig soln W25125 exp: 11/25/10 tv = 160 mg/L

W25146 ESC 11/24/10 Cr^{+6} MDLS✓ LODS✓: Into a 50mL vol. pipetted ~~0.25mL~~ 0.5 ESC 11/24/10 mL W23663 & brought to vol. w/ Dig soln W25125 exp: 11/25/10 tv = 50 mg/L

W25147 KMB 11-24-10 NH_3 Hypochlorite - Volumetrically combined and Mixed 100mL Bleach W24747 and 100mL DI H_2O. Exp. 11-25-10

W25148 KMB 11-24-10 NH_3 ICAL Using W24182 and to vol. w/ Diluent W25017

A	0.4 mL	50mL final
B	0.2 mL	
C	0.1 mL	
D	0.05 mL	
E	0.025 mL	
F	0.01 mL	100mL
G	0	50mL

W25149 KMB 11-24-10 NH_3 H_2SO_4 LCS - Into a 100mL VF pipetted 0.125mL W25114 and BTV w/ Diluent W25055. Exp. 12-1-10

W25150 KMB 11-24-10 NH_3 H_2SO_4 ICAL - Into a 100mL VF pipetted 0.25mL W24182 and BTV w/ Diluent W25055. Exp. 12-1-10

W25151 KMB 11-24-10 NH_3 H_2SO_4 CCV - Into a 100mL VF pipetted 0.125mL W24182 and BTV w/ Diluent W25055. Exp. 12-1-10

W25152 KMB 11-24-10 NH_3 H_2SO_4 LOQ - Into a 100mL VF pipetted 0.016mL W24182 and BTV w/ Diluent W25055 Exp. 12-1-10 TV = 0.16 mg/L.

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W25124 KMB 11-22-10 — NH_3 Soil LCS- Prepped 11-17-10 Pipetted 0.25mL W24913 into 50mL KCl Ext. Soln - W25047. Exp. 11-24-10

W25125 JTB 11-23-10 — Cr^{+6} Dig soln: into a 2L vol. dissolved 60g sodium Carbonate anhydrous W20910 + 40g NaOH W24679 + BTV w/ DI H_2O. exp: 11-23-11

W25126 JTB 11-23-10 — Cr^{+6} Ical: into 5 50mL VF pipetted 0, 1, 2.5, 5, and 10mL W23661 + BTV w/ dig soln W25125 exp: 11-24-10

W25127 JTB 11-23-10 — Cr^{+6} ICV/LCS: into a 50mL VF pipetted 5mL W23663 + BTV w/ Dig soln W25125 exp: 11-24-10

W25128 JTB 11-23-10 — Cr^{+6} soil DPC: into a 20mL vol. dissolved 1g ~~W23967~~ JTB 11-23-10 W25133 in acetone JT Baker lot# H30E21 cat# 9254-03 exp: 11-24-10 + BTV w/ acetone.

W25129 CES 11/23/10 — IC Mixed LCS/ICV- Into a 500mL vol pipetted 20mL W23422 + filled to vol w/ milliQ H_2O exp 12/23/10

W25130 CES 11/23/10 — IC NO_2 LCS- Into a 500mL vol pipetted 3.5mL W23500 + filled to vol w/ milliQ H_2O. exp 12/23/10

W25131 ESC 11/23/10 ESC 11/23/10 — Ascorbic Acid Reagent: Into a 500mL vol. dissolved 30g Ascorbic acid W24793 + 0.5g SDS W23748 + brought to vol. w/ DI H_2O exp: 11/24/10

W25132 ESC 11/23/10 — TKN/TPhos ICV: Into a 100mL vol. pipetted 0.952mL W25114 + W23501 + brought to vol. w/ Dilvet W25039 exp: 12/22/10 to 10mg/L

W25133 JTB 11-23-10 — 1,5-Diphenylcarbazide Lot # 096686 Fisher. cat # D85-25 exp: 11-23-15

W25134 CES 11/23/10 — Sodium Bicarbonate. Fisher cat# S233-500 lot # 104706 exp 11/23/15

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*W24896 JTB 10-14-10 — Cr^{+6} Dig soln: into a 2L vol. dissolved 60g Sodium Carbonate anhydrous W23099 + 40g NaOH W24679 + BTV w/ DI H_2O. exp: 10-18-11

* W24897 JTB 10-15-10 — Cr^{+6} Ical: into 5 50mL vol. pipetted 0, 1, 2.5, 5, + 10mL W23661 + filled to vol. w/ Dig soln. W24787 exp: 10-19-10

✓ W24898 JTB 10-14-10 — Cr^{+6} ICV/LCS: into a 50mL vol. pipetted 5mL W23663 + BTV w/ dig soln. W24787 exp: 10-19-10

* W24899 JTB 10-18-10 — Cr^{+6} soil DPC: into a 200mL vol. dissolved 1g W18803 in acetone JT Baker Lot#: H30E21 Cat#: 9254-03 exp: 10-19-10

* W24900 CES 10/18/10 — Phenol Buffer - Into a 500mL vol dissolved 1g $K_3Fe(CN_6)$ W22607, 1.55g Boric Acid W21756, 1.875 KCl W23819 volumetrically added 23.5mL 1N NaOH W24965 filled to vol w/ dI H_2O exp 10/25/10

* W24901 CES 10/18/10 — Phenol 4-AAP - Into a 500mL vol dissolved 0.32g W21897 + filled to vol w/ dI H_2O.

* W24902 CES 10/18/10 — Phenol CCV - Into a 200mL vol pipetted 0.1mL W22840 + filled to vol w/ dI H_2O.

* W24903 CES 10/18/10 — Phenol Ical - Into a 100mL vol pipetted 10mL W24896 + filled to vol w/ dI H_2O. exp 10/20/10

W24904 CES 10/18/10 — Ascorbic reagent - Into a 500mL vol dissolved 30g W24798 + 0.5g SDS W23748 + filled to vol w/ dI H_2O.

W24905 CES 10/18/10 — Molybdate color reagent (W24900 CES 10/18/10) Into a 1L vol volumetrically added 213mL ~~W24648~~ + 72mL W24719 + filled to vol w/ dI H_2O exp 11/18/10

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EJL 9/30/10

W24789 EJL tot+ 9/30/10 EJL 9/30/10 — Cr+6 ICV/LCS: Into a 50mL vol. pipetted 5mL ~~W23~~ W23663 & brought to vol. w/ dig soln W24787 exp: 10/1/10

W24790 CES 9/30/10 — LL TPhos carrier.

W24791 CES 9/30/10 — LL TPhos ascorbic

W24792 CES 9/30/10 — LL TPhos Molybdate

W24793 CES 9/30/10 — Ascorbic - Fish

W24794 CES 9/30/10 — LL TPhos ICV

W24795 CES 9/30/10 — LL Ical working

W24796 CES 9/30/10 — LL Ical

W24797 JTB 9-30-10 — Cr+6 Soil DPC: into 200mL dissolved 1g W18803 in acetone JT Baker Lot# J14E52 Cat.# 9254-03 exp: ~~9~~ 10-1-10 JTB 9-30-10

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W24779B KMB 9-29-10 Boric Diluent - Into a 2 L VF volumetrically added 200 mL W24773 and BTV w/ DI H_2O., X: 10-27-10

W24780 KMB 9-29-10 NH_3 ICAL using W24182 and BTV w/ Diluent W24779 50 mL Final

A	0.4	100 mL
B	0.2	50 mL
C	0.1	
D	0.05	
E	0.025	
F	0.01	
G	0	

Exp: 10-6-10

W24781 EJC 9/29/10 LL TPhos LCS working: Into a 100 mL vol. pipetted 1 mL W23501 & filled to vol. w/ DI H_2O tv = 10 mg/L exp: 10/6/10

W24782 EJC 9/29/10 LL TPhos LCS: Into a ~~100~~ 200 mL vol. pipetted ~~0.5~~ 1 mL W24781 & filled to vol. w/ DI H_2O tv = 50 mg/L exp: 10/6/10 EJC 9/29/10

W24783 EJC 9/29/10 Ammonium Persulfate: Into a 200 mL vol. dissolved 80g W24520 & filled to vol. w/ DI H_2O exp: 10/6/10

W24784 KMB 9-29-10 NH_3 H_2SO_4 ICAL - Into a 100 mL VF pipetted 0.25 mL W24182 and BTV w/ Diluent ~~W24754~~ W24758. Exp. 10-6-10 KMB 9-29-10

W24785 KMB 9-29-10 NH_3 H_2SO_4 CCV - Into a 100 mL VF pipetted 0.125 mL W24182 and BTV w/ Diluent W24758. Exp. 10-6-10

W24786 KMB 9-29-10 NH_3 H_2SO_4 LCS/ICV - Into a 100 mL VF pipetted 0.125 mL W24652 and BTV w/ Diluent W24758. Exp. 10-6-10

W24787 JTR 9-30-10 Cr^{+6} Dig Soln: into a 2L vol. dissolved 60g Sodium Carbonate anhydrous W23099 + 40g NaOH ~~W23614~~ W24679 JTR 9-30-10 & BTV w/ DI H_2O. exp: 9-30-11

W24788 EJC 9/30/10 Cr^{+6} ICAL: Into 5 50mL vol. pipetted 0, 1, 2.5, 5, + 10 mL W23661 & filled to vol. w/ dig soln W24787 exp: 10/1/10

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W24619 JRB 9-8-10 TSS LCS: into a 1L vol. dissolved 0.4g Diatomaceous earth W24339, + mixed well after BTV. w/ DI H_2O. exp: 10-8-10

W24620 mml 9-8-10 TKN hypochlorite into a 500mL Vol. volumetrically added 30mL bleach W23989 + brought to Vol. w/ DI H_2O exp 9-9-10

*W24621 OES 9/8/10 Cr^{+6} Dig Soln - Into a 2L vol dissolved 60g Sodium carbonate anhydrous W23099 + 40g NaOH W23614 + filled to vol w/ dI H_2O. exp 9/8/11

* W24622 OES 9/8/10 Cr^{+6} Ical - Into 5 50mL vol pipetted 0.1, 2.5, 5, 40 mL W23661 + filled to vol w/ dig soln W24621. exp 9/8/11

* W24623 OES 9/8/10 Cr^{+6} ICV - Into a 50mL vol pipetted 5mL W23663 + filled to vol w/ dig soln W24621 exp 9/8/10

* W24624 KMB 9-8-10 IC LL CAL $NO_2^- + NO_3^-$ Working Std - Into a 100 mL VF pipetted 5.0 mL NO_2^- W22679 and NO_3^- W22939 and BTV w/ Milli Q H_2O. exp: 9-10-10

* W24625 KMB 9-8-10 IC LL CAL PO_4^- Working Std - Into a 100 mL VF pipetted 5.0mL PO_4^- W23289 and BTV w/ Milli Q H_2O. exp: 9-10-10

* W24626 KMB 9-8-10 IC LL ICAL: To vol w/ Milli Q H_2O Exp: 9-10-10

LEVEL:	1	2	3	4	5	6	7	8
mL W24624	0	0.01	0.06	0.2	0.4	0.5	1.0	2.0
mL W24625	0	0.01	0.02	0.04	0.06	0.05	0.1	0.2
mL FINAL VOL:	50	100	100	100	100	50	50	50

*W24627 OES 9/8/10 Cr^{+6} Soil DPC - Into a 100mL vol dissolved 0.05g W19803 in acetone Baker cat # 9254-03 lot # J14E52 exp 9/9/10

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W24381 mod 8-6-10 Phenolics Buffer into a 500ml Vol. dissolved 1g $K_3Fe(CN_6)$ W22607, 1.55g Boric Acid W21756, 1.875g KCL W22919, Volumetrically added 23.5ml 1N NaOH W24271 + brought to Vol. w/ DI H_2O exp 8-13-10

W24382 ~~W23482~~ mod 8-6-10 4-AAP into a 500ml Vol. dissolved 0.32g 4AAP W20897 + brought to Vol. w/ DI H_2O exp 8-7-10

W24383 CS 8/6/10 Cr^{+6} std DPC - Into a 100mL vol dissolved 0.05g DPC W19903 in acetone Baker cat # 9254-03 lot # J14E52 exp 8/7/10

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W24373 CES 8/5/10 — Cr^{+6} 3rd LOQ - Into a 50 mL vol pipetted 0.5mL W23661 & filled to vol w/ dig soln W2455. exp 8/12/10. TV = 2.0 mg/L

W24374 CES 8/5/10 — Cr^{+6} 3rd LOQ - Into a 50mL vol pipetted 1.6mL W23661 & filled to vol w/ dig soln W2455 exp 8/12/10 TV 6.4mg/L

W24375 CES 8/6/10 CES 8/6/10 — Cn LCS working - Into a 100 mL vol pipetted 1mL W24254 & filled to vol w/ 0.25N NaOH W24280. TV = 10,000 µg/L exp 8/13/10 CES 8/6/10

W24376 CES 8/6/10 — CN LCS - Into a 200mL vol pipetted 1mL W24375 - filled to vol w/ W24280. TV = 50 µg/L exp 8/13/10

W24377 CES 8/6/10 — CN Ical/ccv working - TV = 10,000 µg/L - Into a 100mL vol pipetted 1mL W20763 & filled to vol w/ W24280. exp 8/13/10

W24378 CES 8/6/10 — CN Ical/ccv using W24377 & filled to vol w/ W24280

2mL → 200 = 100 µg/L
0.75mL → 100 = 75 µg/L
0.5mL → 100 = 50 µg/L

using 100 µg/L std:

exp 8/13/10

15mL → 50 = 30 µg/L
20mL → 100 = 20 µg/L
5mL → 50 = 5 µg/L

W24379 JTG 8-6-10 — TKN/TPhos dig soln: into a 2 L vol. dissolved 266g potassium sulfate W22243, + vol. added 50mL mercuric sulfate W24192 & 400 mL H_2SO_4 W24234 & filled to vol. w/ DI H_2O. exp: 9-6-10

W24380 KMB 8-6-10 — IC Mixed CCV -

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W24362 CE 8/5/10 — Phenolic LCS ~~working~~ - Into ~ 200mL vol pipetted 0.1mL W 21956 ~ filled to vol w/ dI H_2O. exp 8/15/10 TV=50mg/L

W24363 CE 8/5/10 — Phenol Icca working - Into a 100mL vol pipette 1mL W 22840 ~ filled to vol w/ dI H_2O. exp 8/12/10.

W24364 CE 8/5/10 — Icca Phenol - Into a 100mL pipetted 10mL W24363 ~ filled to vol w/ dI H_2O. exp 8/12/10

W24365 CE 8/5/10 — 8/5/10 Phenol ~~Icca~~ CCN Into a 200mL vol pipetted 0.1mL W22840 ~ filled to vol w/ dI H_2O. exp 8/12/10

W24366 ESC 8/5/10 — Antimony Potassium Tartrate Stock: Into a 500mL vol. dissolved 1.61g Antimony Potassium Tartrate W23460 ~ filled to vol. w/ DI H_2O exp: 10/5/10

W24367 KMB 8-5-10 — LL NO_2^- MDL Study - Into Eight 50mL VFs pipetted 0.05mL W24236 50mg/L NO_2^- and brought to vol. w/ Milli Q H_2O. TV= 0.05 mg/L X: 8-6-10

* W24368 CE 8/5/10 — Cr^{+6} soil LCS - Into a 50mL vol pipetted 5mL W23663 ~ filled to vol w/ dig soln W24155. exp 8/12/10

* W24369 CE 8/5/10 — Cr^{+6} soil Icca - Into 5 50mL vol pipetted 0, 1, 2.5, 5, ~ 10mL W23661 ~ filled to vol w/ W24155. exp 8/12/10.

W24370 ESC 8/5/10 — RCN LCSS: Into 10mL 1N NaOH W24271 pipetted 0.1mL 1000mg/L CN stock W24254 ~ added 5g sand W23481 tv= 20mg/kg exp: 8/6/10

W24371 ESC 8/5/10 — R Sulfide LCSS: Into 10mL DI H_2O pipetted 0.02mL 100mg/L sulfide stock W24315 ~ added 5g sand W23481 tv= 4mg/kg exp: 8/6/10

W24372 ESC 8/5/10 — 1:1 HCL: Into a beaker added 200mL DI H_2O ~ 200mL HCL W24267 ~ mixed exp: 8/5/11

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DW24084 CES
6/24/10

Crtd DPC – Into a 100mL vol dissolved 0.5g DPC WP8803 - filled to vol w/ acetone Baker cat# 9254-03 lot # H30E21. exp 6/23/10

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W24075 EJC 6/24/10 Phenolics Buffer: Into a 500mL vol. dissolved 1g $K_3Fe(CN_6)$ W22607, 1.55g Boric Acid W21756, 1.875g KCl W22919 & volumetrically added 23.5 mL 1N NaOH W23809 & brought to vol. w/ DI H_2O exp: ~~7/1/10~~ EJC 6/24/10 7/24/10

W24076 EJC 6/24/10 4 Aminoantipyrine: Into a 500 mL vol. dissolved 0.32g 4AAP W21897 & brought to vol. w/DI H_2O exp: 6/25/10

*W24077 CEJ 6/24/10 Cr^{+6} Ical - Into 5 50mL vol pipetted 0, 1, 2.5, 5, & 10mL W23661 & filled to vol w/ dig soln W23704.

*W24078 CEJ 6/24/10 Cr^{+6} LCS - Into a 50mL vol pipetted 5mL W23663 & filled to vol w/ dig soln W23704.

*W24079 JTG 6-24-10 Microcystin Kit: Envirologix lot# 221340 exp: 5-31-11

W24080 mwl 6-24-10 LCTPhos working Std. (10mg/L) into a 100ml Vol. pipetted 1ml W23501 & brought to vol. w/DI H_2O exp 7-1-10

W24081 mwl 6-24-10 LCTPhos ICS 50ug/L into a 100ml Vol. pipetted 0.5ml W24080 & brought to Vol. w/DI H_2O exp 7-1-10

W24082 mwl 6-24-10 Ammonium Peroxydisulfate Fisher cat# A682-500 lot# 095499A

W24083 mwl 6-24-10 Ammonium Persulfate Sdn. into a 200ml Vol. dissolved 80g Amm. Per. W24082 & brought to Vol. w/DI H_2O exp 7-1-10

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W23787 CES 5/13/10 — TOCW CCV - Into a 100mL vol pipetted 5mL W23086 > filled to vol w/ milliQ H_2O. exp 6/13/10 [50mg/L]

W23788 CES 5/13/10 — TOCW LCS - Into 100mL vol pipetted 5mL W23096 > filled to vol w/ milliQ H_2O. exp 6/13/10 [50mg/L]

W23789 MWD 5-13-10 — Chloramine T - Into a 500mL vol. dissolved 2g W22491 § brought to vol. w/ DI H_2O. exp. 5-14-10

W23790 MWD 5-13-10 — Pyridine Color Reagent - Into a 500mL vol. dissolved 7.5g barbituric acid W22756 § ~~brought~~ (5-13-10 MWD) volumetrically added 37.5mL pyridine W23188 § pipetted 7.5mL HCl W22731 § brought to vol w/ DI H_2O. exp 5/20/10

W23791 CES 5/13/10 — Cr^{+6} LCS - Into a ~~500~~ 50mL (CES 5/13/10) vol pipetted 5mL W23663 > filled to vol w/ dig soln - W23704.

W23792 ESC 5/13/10 — GCA 198ppm: North Central Laboratories Lot # B12D10026B2 exp: 1/26/11

W23793 CES 5/14/10 — DPC - Into a 100mL vol dissolved 0.5g DPC WB803 > filled to vol w/ acetone Baker cat# 925403 lot # H12E11 exp 5/15/10

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W23779 CES — Cr^{+6} ICal Soil - Into 5. 50mL vol pipetted 0, 1, 2.5, 5, ~10mL W23661 + filled to vol w/ digsol W23704.
5/13/10

W23780 CES — Cr^{+6} LODS - Into a 50mL vol pipetted 0.5mL W23661 + filled to vol w/ W23704 [TV= 2mg/kg]
5/13/10

W23781 CES — Cr^{+6} LODS - Into a 50mL pipietted 1.6mL W23661 + filled to vol w/ W23704, [TV=6.4mg/kg]
5/13/10

W23782 MWD — KHP Buffer - Into a beaker dissolved 2.5g KHP W19521 in 450 mL CO_2 free DI & volumetrically added 42.5mL 0.1M HCl W23371 & adjusted pH to 3.1 ± 0.05 exp. 5-20-10
5-13-10

W23783 MWD — Alkalinity LODW - Into a 100mL vol. pipetted 0.2mL W23546 & brought to vol. w/ CO_2 free DI H_2O. (TV = 5mg/L) ex-5-15-10
5-13-10

W23784 MWD — Alkalinity LOQW - Into a 100mL vol. pipetted 0.6mL W23546 & brought to vol. w/ CO_2 free DI H_2O. (TV = 15mg/L) ex-5-15-10
5-13-10

W23785 mwd — No_3 ccv into a 500mL vol. pipetted 3.5ml No_3 W22679 + brought to vol. w/ milliQ H_2O exp 6-13-10
5-13-10

W23786 mwd — No_3 + F spike into a 100mL vol. pipetted 12.8ml No_3 W22679 + 3.2ml F W22128 + brought to vol. w/ milliQ H_2O exp 6-13-10
5-13-10

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CES 5/13/10
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*W23701 EJC 5/5/10 - Na Nitroprussside: Into a 500mL vol. dissolved 1.75g Na nitroprussside W22481 + brought to vol. w/DI H_2O exp: 6/5/10

*W23702 EJC 5/5/10 Phenolate Color Reagent: Into a 500mL vol. dissolved 16g NaOH W23614 + volumetrically added 44mL phenol W22610 + filled to vol. w/ DI H_2O exp: 5/12/10

W23703 EJC 5/5/10 Boric Diluent: Into a 2L vol. volumetrically added 200mL boric rec. soln. W23688 + filled to vol. w/ DI H_2O exp: 6/5/10

W23704 CES 5/5/10 Cr^{+6} Dig soln - Into a 2L vol dissolved 60g Sodium carbonate anhydrous W23099 + 40g NaOH W23614 + filled to vol w/ dI H_2O. exp 5/5/11

W23705 CES 5/5/10 DPC color soln - Into a 100mL vol dissolved 0.5g DPC + filled to vol w/ acetone

*W23706 EJC 5/5/10 NH_3 H_2SO_4 ICAL: Into a 100mL vol. pipetted ~~0.250~~ 0.25 mL W~~21863~~ 23710 + brought to vol. w/ H_2SO_4 dil W23590 exp: 5/6/10 EJC 5/5/10

*W23707 EJC 5/5/10 NH_3 H_2SO_4 CCV: Into a 100mL vol. pipetted ~~0.075~~ 0.125 mL W~~21863~~ 23710 + brought to vol. w/ H_2SO_4 dil W23590 exp: 5/6/10 EJC 5/5/10

*W23708 EJC 5/5/10 NH_3 H_2SO_4 LCSW: Into a 100mL vol. pipetted ~~0.075~~ 0.125 mL W~~23462~~ 23710 + brought to vol. w/ H_2SO_4 dil W23590 exp 5/6/10 EJC 5/5/10

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W23665 mvl Cr+6 Ical into a 500ml Vol. pipetted 10ml W23661 200ug/L
4-29-10 + brought to Vol. w/ DI H_2O exp 4-29-11 TV = ~~1000 ug/L~~ 8-19-10 mvl

W23666 mvl Cr+6 CCV into a 500ml Vol. pipetted 5ml W23661
4-29-10 + brought to Vol. w/ DI H_2O TV = ~~500~~ 100 ug/L exp 4-29-11
4-29-10 mvl

W23667 mvl Cr+6 H_2O Color reagent into a 500ml Vol. dissolved
4-29-10 0.2g DPC W18803 into 100 ml propanol ~~Ba~~ Fisher cat# A414-4 4-29-10 mvl
lot# 090199 (W22263) volumetrically added 300ml DI H_2O + 40ml
H_2SO_4 W23390 + brought to Vol. w/ DI H_2O exp 5-29-10

W23668 ESC Sulfide LOQ ✓: (1 mg/L) Into a 200mL vol. flask pipetted
4/29/10 0.2 mL sulfide stock W23441 + brought to Vol. w/ DI H_2O exp: 4/30/10

W23669 MWD Total Volatile Solid PT (788533) - Into a 1 L. Vol, transferred entire
4-29-10 contents of vial for 788533, rinsed vial & cap 3 times w/ DI H2O & added rinsate to vol. each time, brought up to vol. w/ DI H2O & mixed w/ stir bar for 10 min.

W23670 MWD Total Solid LOQ Check - Into a 250 mL vol. added 0.05g
4-29-10 Diatomaceous Earth W18768 & brought to vol. w/ DI H2O.
[TV = 200mg/L].

W23671 ESC 7% Dish Soap: Into a small carboy added 1 gal. dish soap W23672
4/29/10 & volumetrically added 1.27 L DI H_2O

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W23657 mnl LL TPhos ICV into a 100ml Vol. pipetted 0.481ml W23625
4-29-10 & brought to Vol. w/ Diluent W23659 exp 5-4-10

W23658 mnl LL TPhos Ascorbic into a 500ml Vol. dissolved 30g Ascorbic
4-29-10 W23518 + 1.5g SDS W19325 + brought to Vol. w/ DI H_2O exp 4/30/10

W23659 mnl LL TPhos Diluent into a 2L Vol. volumetrically added 80ml
4-29-10 Amm. Persulfate Soln. W23627 + pipetted 14.4ml H_2SO_4 W21232
& brought to Vol. w/ DI H_2O exp 5-4-10

W23660 mnl Cr+6 ICal/CCV Stock 1000mg/L into a 500ml Vol. dissolved
4-29-10 1.4145g Potassium Dichromate W18819A & brought to Vol.
w/ DI H_2O exp 4-29-11

W23661 mnl Cr+6 ICal/CCV working Std. 10mg/L into a 500ml Vol. pipetted
4-29-10 5ml W23660 & brought to Vol. w/ DI H_2O exp 4-29-11

W23662 mnl Cr+6 ICV/LCS stock Std. 1000mg/L into a 500ml Vol. dissolved
4-29-10 1.4145g Potassium Dichromate W18802 + brought to Vol.
w/ DI H_2O exp 4-29-11

W23663 mnl Cr+6 ICV/LCS working Std. 10mg/L into a 500ml Vol. pipetted
4-29-10 5ml W23662 & brought to Vol. w/ DI H_2O exp 4-29-11

W23664 mnl Cr+6 ICV/LCSW into a 200ml Vol. pipetted 2ml W23663
4-29-10 + brought to Vol. w/ DI H_2O exp 4-29-11 TV = 100ug/L

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*W23042 MWD 1/27/10 NH3 H2SO4 LOQ Check (0.16 mg/L) Into a 100 mL vol. pipetted 0.016 mL W22929 & brought to vol. w/ W22974

W23043 EJC 1/27/10 Magnesium Chloride 6 Hydrate: VWR (BDH) ~~Cat #~~ EJC 1/27/10
Cat # BDH0244-500G Lot # 4905892I rec. 7/20/09

*W23044 JTB 1/28/10 Sulfide LCS: into a 200 mL vol. pipetted 1mL W23004 & brought to vol. w/ DI H2O.

W23045 EJC 1/28/10 Cr+6 soil ICAL: Into 5 50mL vol. flasks pipetted 0, 1, 2.5, 5, & 10 mL 10mg/L Std W21286 & brought to vol w/ Dig Soln W23038

W23046 EJC 1/28/10 Cr+6 soil LCS/ICV: Into a 50mL vol. pipetted 5mL 10mg/L std W21288 & brought to vol. w/ Dig Soln W23038

W23047 EJC 1/28/10 Cr+6 soil MDL study: Into 8 seperate 100mL vols pipetted 5mL 10mg/L std W21288 & brought to vol. w/ Dig Soln W23038 true value = 10mg/kg (250mg/L)

W23048 EJC 1/28/10 DPC Color Reagent: Into a 100mL vol. dissolved 0.5g DPC W18803 & brought to vol. w/ Acetone Cat # 9254-03 Lot # H12E11

*W23049 JTB 1/28/10 Sulfide LCS: into a 200mL vol. pipetted 1mL W23004 & brought to vol. w/ DI H2O.

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* W23034 MWD 1-27-10 NH_3 H_2SO_4 LCS- Into a 100 mL vol. pipetted 0.075 mL W22929 & brought to vol. w/ H_2SO_4 Dil. W22974.

* W23035 MWD 1-27-10 NH_3 H_2SO_4 MDLV (0.1 mg/L) - Into a 100 mL vol. pipetted 0.01 mL W22929 & brought to vol. w/ H_2SO_4 Dil. W22974.

* W23036 MWD 1-27-10 NH_3 H_2SO_4 LOD (0.03 mg/L) - Into a 200 mL vol. pipetted 0.006 mL W22929 & brought to vol. w/ H_2SO_4 Dil. W22974

* W23037 MWD 1-27-10 NH_3 H_2SO_4 LOQ (0.10 mg/L) - Into a 100 mL vol. pipetted 0.01 mL W22929 & brought to vol. w/ W22974

W23038 ESC 1/27/10 Cr^{+6} Dig Soln: Into a 2L vol. dissolved 60g sodium carbonate anhydrous W21099 & 40g NaOH W22703 & brought to vol. w/ DI H_2O exp: 2/27/10

W23039 ESC 1/27/10 Cr^{+6} phosphate buffer: Into a 250mL vol. dissolved 21.77g potassium phosphate dibasic W [illegible] Exp 2/27/10 Fisher Cat # P288-500 Lot # 037138 17.01g potassium phosphate monobasic W 21116 & brought to vol w/ DI H_2O

* W23040 ESC 1/27/10 $MgCl_2$ Soln: Into a 500mL vol. dissolved 255g $MgCl_2$ 6 hydrate W23043 & brought to vol. w/ DI H_2O

W23041 MWD 1-27-10 Na Nitroprusside - Into a 500 mL vol. dissolved 1.75g Nitroprusside W22481 & brought to vol. w/ DI H_2O. exp. 2-27-10

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W22887 ESC 1/12/10 — Cr^{+6} Color reagent: Into a 500mL vol. dissolved 0.2g ~~DPC~~ DPC W18803 in 100mL ~~2-propanol~~ 1-propanol W22263 then volumetrically added 300mL DI H_2O + 40mL H_2SO_4 W22816 & brought to vol. w/ DI H_2O exp: 2/12/10

W22888 ESC 1/12/10 — Cr^{+6} MDLW study: Into 8 seperate 100mL vol. flasks pipetted 0.15mL W21288 Cr^{+6} ICV/LCS working 10mg/L & brought to vol. w/ DI H_2O. true value: 15mg/L Cr^{+6}

W22889 ESC 1/12/10 — Cr^{+6} MDLW ✓: Into a 100mL vol. pipetted 0.1mL W21288 Cr^{+6} ICV/LCS working 10mg/L & brought to vol. w/ DI H_2O. true value = 10mg/L Cr^{+6}

*W22890 MWD 1-12-10 — 18N H_2SO_4 - Into a beaker volumetrically added 250mL H_2SO_4 ~~W22499~~ W22816 & 250mL DI H_2O. ~~1-12-10 MWD~~

*W22891 ESC 1/12/10 — Cr^{+6} ICV/LCSW 100mg/L: Into a 100mL vol. pipetted 1mL W21288 & brought to vol. w/ DI H_2O ~~exp 1/12/11~~ exp 4/23/10 mM 4/29/10.

CES 1/12/10

W22892 CES 1/12/10 — ~~Into~~ IC MDLW study - Into 8 ~~vol~~ 100mL vol flask pipetted 0.02mL NO_2 W22679, 0.4mL Cl^- W21370, Filled to vol w/ milli Q H_2O. TV 0.2mg/L NO_2, 4.0mg/L Cl^-

W22893 CES 1/12/10 — IC MDLS study - Into 8 100mL vol flask pipetted 0.02mL NO_2 W22679, FI W22128, Ophos W21120, 0.4mL Cl W21370, filled to vol w/ milli Q H_2O

TV: 2mg/kg NO_2, FI, Ophos
40mg/kg Cl^-
2 ladies

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W22757 ESC 12/18/09 CN LCS II: Into a ~~100~~ 200 mL vol. EJC 12/18/09 pipetted 2mL W22719 & brought to vol. w/ NaOH W22729

W22758 ESC 12/18/09 DPC color reagent: Into a 50mL vol. dissolved 0.25g w/8803 + filled to vol. w/ Acetone cat# 9254-03 lot# 1412E11

W22759 ESC 12/18/09 Chloramine T reagent: Into a 250 mL vol. dissolved 1g Chloramine T W22491 & brought to vol. w/ DI H_2O exp: 12/19/09

EJC 12/18/09

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W22725 CES 12/15/09 Cr^{+6} LCSS - Into a 50 mL vol pipetted 4mL W21288 & filled to vol w/ W22723.

W22726 CES 12/15/09 Cr^{+6} MRL - Into a 50 mL vol pipetted 3mL W21288 - filled to vol w/ W22723.

W22727 CES 12/15/09 Cr^{+6} MDL check - Into a 50mL vol pipetted 1mL W21288 & filled to vol w/ W22723.

W22728 CES 12/15/09 Magnesium Cl anhydrous - Alfa Aesar cat # 12315 lot # J24T030

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W22140 EJC 9/3/09 CN Std Prep

mLs W22138	final vol w/ W22139	true value (mg/L)
2	100	200
2	200	100
0.5	100	50

mLs 100 mg/L std		
30	100	30
10	50	20
5	50	10

W22141 EJC 9/3/09 NaOH: Fisher Cat # S 318-3 Lot # 091239
rec: 8/6/09 opened 9/3/09

W22142 mml 9/3/09 Ascorbic Acid reagent into a 500ml Vol. dissolved 30g Ascorbic W21981 + 1.5g SDS W19325 + brought to Vol. w/ DI H_2O exp 9-4-09

W22143 EJC 9/3/09 TKN/TPhos Dig Soln: Into a 2L vol. dissolved 266g Potassium sulfate W22002 + volumetrically added 50mL mecuric sulfate W22144 + 400mL H_2SO_4 W20958 + brought to vol. w/ DI H_2O

W22144 EJC 9/3/09 Mecuric Sulfate: Into a 200mL vol. dissolved 16g Mecuric Oxide W20970+ volumetrically added 20mL H_2SO_4 W20958+ W22145 + brought to vol. w/ DI H_2O

W22145 EJC 9/3/09 Sulfuric Acid: J.T. Baker Cat# 9673-33 lot# 635026
rec 9/3/09 opened 9/3/09

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mml	9-10-09		

* W22074 ESC 8/26/09 NH_3 LOQS ✓: Into a 100mL vol. 4.6mL W22055 was pipetted + brought to vol. w/ KCL extraction soln W22076 true value = 0.23

* W22075 ESC 8/26/09 NH_3 LCSS: Into a 100mL vol. 0.5mL W22007 was pipetted + brought to vol. w/ KCL extraction soln. W22076

W22076 ESC 8/26/09 KCL Extraction Soln: Into a 1L 150g KCL W20236 was dissolved + brought to vol. w/ DI H_2O exp: 9/26/09

W22077 ESC 8/26/09 NH_3 Hypochlorite: Into a beaker 150mL Bleach W21858 + 150mL DI H_2O were volumetrically added exp: 8/27/09

* W22078 CES 8/26/09 25% ophos Acid - Into a 500mL vol volumetrically added 125mL phosphoric acid W20403 & filled to vol w/ DI H_2O.

W22079 ESC 8/26/09 Potassium Chloride: Fisher Cat # P217-500 Lot # 073552 recieved 12/22/08

* W22080 CES 8/26/09 Phosphoric Acid - JT Baker cat # 0260-04 Lot # T01806.

W22081 ESC 8/26/09 CN LCS Working Std: Into a 100mL vol. pipetted 1mL W21585 + filled to vol. w/ 0.25 NaOH W21922

* W22082 ESC 8/26/09 CN LCS: Into a 200mL vol. 2mL W22081 was pipetted + brought to vol. w/ 0.25 NaOH W21922

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mvl	9-10-09		

W21285 mml 4-23-09 Cr+6 ccv/ical stock into a 500ml Vol. dissolved 1.4145g Potassium Dichromate W18819A + brought to Vol. w/ DI H_2O exp 4-23-10

W21286 mml 4-23-09 Cr+6 ccv/ical working std. into a 500ml Vol. pipetted 5ml W21285 + brought to Vol. w/ DI H_2O exp 4-23-10

W21287 mml 4-23-09 Cr+6 Icv/lcs stock std. into a 500ml Vol. dissolved 1.4145g Potassium Dichromate W18802 + brought to Vol. w/ DI H_2O exp 4-23-10

W21288 mml 4-23-09 Cr+6 Icv/lcs working std. into a 500ml Vol. pipetted 5ml W21287 + brought to Vol. w/ DI H_2O exp 4-23-10

W21289 mml 4-23-09 Cr+6 Icv/lcsw into a 100ml Vol. pipetted 1ml W21288 + brought to Vol. w/ DI H_2O exp 4-24~~-09~~-10 4-23-09 mml

W21290 mml 4-23-09 Cr+6 Ical into a 500ml Vol. pipetted 10ml W21286 + brought to Vol. w/ DI H_2O exp 4-24-10

W21291 mml 4-23-09 Cr+6 ccv into a 500ml Vol. pipetted 5ml W21286 + brought to Vol. w/ DI H_2O exp 4-24-10

W21292 mml 4-23-09 Cr+6 H_2O PT into a 500ml Vol. pipetted 5ml 661494 + brought to Vol. w/ DI H_2O

W21293 mml 4-23-09 Cr+6 H_2O Color reagent into a 500ml Vol. dissolved 0.2g DPC W18803 into 100ml 2-propanol Baker lot #21271 cat# 9334-03 Volumetrically added 300ml DI H_2O + 40ml H_2SO_4 W20958 + brought to Vol. w/ DI H_2O exp 5-23-09

W21294 4/23/09 IC MRL (LOQ) - Into a 100mL Vol Pipetted 0.02mL NO_3 W20711, 0.03mL NO_2 W20512, 0.03mL Br^- W21284, 0.3mL Cl^- W19905, 0.3mL SO_4^- W20511 + filled to vol w/ milliQ H_2O exp 4/20/09

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W21097 MM TKN hypochlorite into a 500ml vol. pipetted 30ml bleach
3/24/09 W19935+ brought to vol. w/ DI H2O exp 3/25/09

W21098 CES Cr+6 dig soln - Into a 2L vol dissolved 120g sodium carbonate anhydrous W20493 + 80g NaOH W20719 + filled to vol w/ dI H2O.
3/24/09

W21099 CES Sodium Carbonate Anhydrous - EMD cat # SX0395-1
3/24/09 lot # 46321715.

W21100 ESC Magnesium Chloride Soln: Into a 500mL vol. ESC 3/24/09 ~~22~~ 25.5g
3/24/09 $MgCl_2$ 6 hydrate W20306 + brought to vol w/ DI H2O

W21101 MWD NH3 Std Preps:
3-25-09

	mLs W21001	final vol. w/ ~~W20955~~ W20971 3-25-09 MWD
		50
A	0.35	
B	0.2	
C	0.1	
D	0.05	
E	0.025	
F	0.01	100
G	0	50

W21102 MWD NH3 Hypochlorite - Into a 500 mL vol. volumetrically added 250 mL bleach
3-25-09 W19935 brought to vol. w/ DI H2O.

W21103 CES Cr^{+6} Std prep - Into 5 50 mL vol pipetted 0, 1, 2.5, 5, 40mL
3/25/09 W20720 + filled to vol w/ dig soln W21098.

W21104 CES Cr^{+6} LCSS - Into a 50mL vol pipetted 5mL W19881 +
3/25/09 filled to vol w/ dig soln W21098.

W21105 CES Cr^{+6} MDLS - Into a 50mL vol pipetted 3mL W20720 +
3/25/09 filled to vol w/ dig soln W21098.

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W20905	MWD	IC MDLS Study - Into 8 100mL vol. pipetted 0.02mL F^- W19722, NO_2
2/16/09		W20512, NO_3 W20711, Br W17169, Ophos W18485, 0.4mL Cl^-
		W19905 & SO_4 W20511 & brought to vol. w/ milli Q H_2O.
W20906	MWD	IC MDLS Check - Into a 100 mL vol. pipetted 0.01mL F^- W19722,
2/16/09		NO_2 W20512, NO_3 W20711, Br W17169, Ophos W18485, 0.1mL
		Cl^- W19905 & SO_4 W20511 & brought to vol. w/ Milli Q H_2O.
W20907	MWD	IC MDLW Study - Into 8 100 mL vol. pipetted 0.02 mL NO_3 W20711
2/16/09		& 0.4 ml Cl^- W19905 & brought to vol. w/ milliQ H_2O.
W20908	MWD	IC MDLW Check - Into a 100 mL vol. pipetted 0.01 mL NO_3 W20711 &
2/16/09		0.1 mL Cl^- W19905 & brought to vol. w/ milliQ H_2O.
W20909	CES	TKN hypochlorite - Into a 500mL vol pipetted 30mL W19935 &
2/17/09		filled to vol w/ dI H_2O.
W20910	CES	Sodium Carbonate anhydrous - Baker cat# 3602-01 lot # G43154.
2/17/09		
W20911	CES	0.02 N Sulfamic Acid Soln - VWR cat # BDH3329-4
2/17/09		lot # 8326 exp 11/30/09
W20912	CES	0.2 N Sulfuric Acid IC cleaning soln - Into a 250 mL vol
2/17/09		pipetted 1.9mL W20696 & filled to vol w/ dI H_2O.
W20913	CES	Boric Dilvent - Into a 2L vol volumetrically added 20mL
2/18/09		W20772 & filled to vol w/ dI H_2O.
W20914	CES	NH_3 Buffer - Into a 500mL vol dissolved 25g EDTA W20807
2/18/09		& volumetrically added 112.5mL 1M NaOH W20585 & filled to vol
		w/ dI H_2O. exp 3/18/09
W20915	CES	Phenolate Color Reagent - Into a 500mL vol volumetrically W20794
2/18/09		added 44 mls Phenol W20579 & dissolved 16g NaOH W19768
		& filled to vol w/ DI H_2O. exp 2/25/09

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W20483 CES 12/12/08 — Sodium Carbonate Anhydrous – EMD cat # SX0395-1 lot # 46321715

W20484 CES 12/12/08 — Alk MDL study – Into 8 100mL vol pipetted 1mL W20479 & filled to vol w/ dI H_2O CO_2 free.

W20485 CES 12/12/08 — Alk MDL check – Into a 100mL vol pipetted 0.6mL W20479 & filled to vol w/ CO_2 free dI H_2O.

W20486 ESC 12/15/08 — NH_3 LCS: into a 200mL vol. flask, 1.0mL W20427 was pipetted + brought to vol. w/ DI H_2O

W20487 CES 12/15/08 — TPhos carrier – Into a 1L vol dissolved 31.7g potassium sulfate W20248 CES 12/16/08 and ~~filled to~~ volumetrically added 50mL H_2SO_4 W19538 & filled to vol w/ dI H_2O

W20488 CES 12/15/08 — Ascorbic acid – Into a 500mL vol dissolved 30g ascorbic W20388 & 0.5g SDS W19325 & filled to vol w/ dI H_2O.

W20489 CES 12/15/08 — Molybdate color reagent – Into a 1L vol volumetrically added 72mL W19859 & 213mL W19860 & filled to vol w/ dI H_2O

W20490 CES 12/15/08 — Sodium phosphate Dibasic hepta hydrate – Fisher cat # S373-500 lot # 084175.

W20491 CES 12/15/08 — Stock Ammonium Molybdate – Into a 1L vol dissolved 40g W18366 & filled to vol w/ dI H_2O.

W20492 CES 12/15/08 — Antimony potassium tartrate – Into a 500mL vol dissolved 1.6g W14207 & filled to vol w/ dI H_2O. exp 2/15/09

* W20493 CES 12/15/08 — Hydrochloric Acid – Fisher cat # A508SK-212 lot # 410 8031 exp 5/11

W20494 CES 12/16/08 — LCS CES 12/16/08 CN ~~std prep~~ working std – Into a 100mL vol pipetted 1mL W20297 & filled to vol w/ 0.25N NaOH W20414

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W19703 CES 9/12/08 - IC Mixed Spike - Into a 100mL vol pipetted 6.4mL Br^- W17169, NO_3 W17681, + Ophos W18485, 25.6mL SO_4 W18673 + Cl^- W18038 + filled to vol w/ milli Q H_2O. exp 10/12/08

W19704 CES 9/12/08 - IC Soil MRL - Into a 100mL vol pipetted 0.07mL W17650 F^-, Cl^- W18038 0.35mL, 0.45mL SO_4 W18673, 0.02mL NO_2 W17930, 0.02mL NO_3 W17681, + 0.015mL Br^- W17169 + filled to vol w/ milliQ H_2O.

W19705 CES 9/12/08 - IC Soil MDL Check - Into a 100mL vol pipetted 0.035mL F^- W17650, 0.2mL Cl^- W18038, 0.25mL SO_4^- W18673, 0.01mL NO_2 W19930, 0.01mL NO_3 W17681 + 0.008mL Br^- W17169 + filled to vol w/ milliQ H_2O.

W19706 CES 9/12/08 - Pyridine Reagent - Into a 500mL vol dissolved 7.5g barbituric acid W17815, pipetted 7.5mL HCl W19539 + volumetrically added 37.5mL pyridine W17409 + filled to vol w/ dI H_2O exp 9/19/08

W19707 CES 9/12/08 - CN Buffer - Into a 500mL vol dissolved 48.5g potassium phosphate monobasic W17982 + filled to vol w/ dI H_2O

W19708 CES 9/12/08 - Chloramine T - Into a 500mL vol dissolved 2g W17811 + filled to vol w/ dI H_2O.

W19709 CES 9/12/08 - Potassium phosphate monobasic - Fisher # P285 - 500 lot # 080934

W19710 MWD 9/12/08 - TPhos MDL Study Std. Prep 10mg/L - Into a 100mL vol. pipetted 1mL W19125 } brought to vol. w/ DI H_2O.

W19711 MWD 9/12/08 - TPhos MDL Study 0.015mg/L - Into 8 tubes pipetted .03mL W19710 } 20mL DI H_2O.

W19712 MWD 9/12/08 - TPhos MDL Check for MDL Study - 0.01mg/L - Into tube pipetted .02mL W19710 } 20mL DI H_2O.

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W19351 CES 2.17.08 Magnesium Chloride, anhydrous - Alfa Aesar CAS # 7786-30-3 Lot # D14K28

W19352 CES 2.17.08 Diphenylcarbazide reagent - Into a 100mL vol dissolved 0.5g W18803 + filled to vol w/ acetone Baker # 9006-07, lot # C42B35

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W19878 CES 10/6/08 Phenolics std prep working - Into a 100mL vol pipetted 1.0mL W18451 & filled to vol w/ DI H_2O

W19879 MWD 10-8-08 Boric Diluent - Into a 2L vol. volumetrically added 200mL W19817 & brought to vol. w/ DI H_2O.

W19880 MWD 10-8-08 Na Nitroprusside - Into a 500 mL vol. dissolved 1.75g W18517 & brought to vol. w/ DI H_2O. exp 11-8-08

W19881 mwd 10-8-08 Cr+6 LCS/ICV working std. into a 100 ml vol. pipetted 1ml W18665 & brought to vol. w/ DI H_2O exp 4-24-08

W19882 mwd 10-8-08 Cr+6 Ical/ccv std. - working into a 100ml vol. pipetted 1ml W18863 & brought to vol. w/ DI H_2O exp 4-24-08

W19883 mwd 10-8-08 Cr+6 Std. Prep into 5 50ml vol. pipetted 0, 1, 2.5 5 & 10ml W19882 & brought to vol. w/ Dig Soln.

W19884 mwd 10-8-08 Cr+6 LCSS into a 50ml vol. pipetted 5ml W19881 & brought to vol. w/ Dig Soln.

W19885 mwd 10-8-08 Cr+6 MRLS 12mg/kg into a 50ml vol. pipetted 3ml W19882 & brought to vol. w/ Dig. Soln

W19886 mwd 10-8-08 Cr+6 MDL check into a 50ml vol. pipetted 1ml W 19882 & brought to vol. w/ Dig Soln.

W19887 MWD 10-8-08 NH3 H2SO4 MRLW - Into a 100 mL vol. pipetted 0.03mL W19773 & brought to vol. w/ W19826.

W19888 MWD 10-8-08 NH3 H2SO4 MDLW Check - Into a 100 mL vol. pipetted 0.02mL W19773 & brought to vol. w/ W19826.

~~W19889 CES 10/10/08 IC NO_3 CCV -~~

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W18859 4-23-08	RMB	IC MDL Check- Into a 100mL vol. pipetted 0.2mL Cl^- W18038 and SO_4^- W17651 and 0.01 NO_3^- W17681 and brought to vol. w/ milli Q H_2O.
W18860 4-23-08	MWD	COD, TOC, BOD5 PT - Pipetted 5 mL of 557029 into a 1L vol. & filled to volume w/ DI H_2O.
W18861 4-22-08	MWD	Sulfide PT - Into a 500mL vol. pipetted 5 mL of 557040 and filled to volume w/ DI H_2O.
W18862 4-24-08	MWD	KHP Buffer Into a beaker dissolved 2.5g potassium Hydrogen Phthalate W16192 volumetrically added 450ml DI H_2O + 42.5ml 0.1m HCl W17932 + adjusted ph to 3.1 ± 0.05 exp 5-1-08
W18863 4-24-08	MWD	Cr+6 St. Prep Stock 1000mg/L into a 500mL Vol. dissolved 1.4145g Potassium Dichromate W18819A + brought to Vol. w/ DI H_2O exp 4-24-09
W18864 4-24-08	MWD	Cr+6 H_2O St. Prep working Std. into a 100ml Vol. pipetted 1ml W18863 & brought to Vol. w/ DI H_2O exp 4-24-09
W18865 4-24-08	MWD	Cr+6 LCS Stock 1000mg/L into a 500ml Vol. dissolved 1.4145g Potassium Chromate W18802 & brought to Vol. w/ DI H_2O exp 4-24-09
W18866 4/24/08	MWD	Cr+6 LCS working Std. into a 100ml Vol. pipetted 1ml W18865 & brought to Vol. w/ DI H_2O
W18867 4/24/08	MWD	Cr+6 LCS into a 100ml Vol. pipetted 1ml W18866 & brought to Vol. w/ DI H_2O exp 4-24-09
W18868 4-24-08	MWD	Cr+6 H_2O Std. Prep into a 100ml Vol. pipetted 2ml W18864 & brought to Vol. w/ DI H_2O exp 4-24-09
W18869 4-24-08	MWD	Cr+6 CCV into a 100ml Vol. pipetted 1ml W18864 & brought to Vol w/ DI H_2O exp 4-24-09

Continued on Page

Read and Understood By

Signed	Date	Signed	Date
RM	4/29/08		

W18795 CN Std prep using W18794

2mL → 100 = 200 µg/L
2mL → 200 = 100 µg/L
0.5mL → 100 = 50 µg/L

using 100 µg/L
30mL → 100 = 30 µg/L
10mL → 50 = 20 µg/L
5mL → 50 = 10 µg/L

W18796 mwl 4-16-08 NH_3 H_2SO_4 Std. Prep into a 100ml Vol. pipetted 0.5ml W18676 & brought to Vol. w/ Diluent W18702

W18797 mwl 4-16-08 NH_3 H_2SO_4 CCV into a 100ml Vol. pipetted 0.25ml W18676 & brought to Vol. w/ Diluent W18702

W18798 mwl 4-16-08 NH_3 H_2SO_4 LCS into a 100ml Vol. pipetted 0.25ml W18721 & brought to Vol. w/ Diluent W18702

W18799 CES 4.16.08 Sulfide LCS- Into a 200ml vol pipetted 1mL W18630 & filled to vol w/ dI H_2O. exp 4.23.08

W18800 MWD 4-16-08 NH_3 H_2SO_4 MML BS. into 50 mL pipetted 0.1 mL W18676 & brought to vol. w/ ~~DI H_2O~~ diluent W18702 4-16-08 MWD

W18801 CES 4/16/08 Sulfide LCS- Into a 200 mL vol pipetted 1mL W18630 & filled to vol w/ dI H_2O. exp 4.23.08

W18802 mwl 4/16/08 Potassium Dichromate cat# Fisher P188-100 lot# 061057

* W18803 mwl 4/16/08 Diphenylcarbazide Fisher cat # D85-25 lot# 067626

W18804 mwl 4/16/08 Zinc Acetate Dihydrate Fisher cat # Z20-500 lot # 076685

Continued on Page

Read and Understood By

Signed _____ Date 4/23/08 Signed _____ Date _____

*W25173 ESC 11/30/10 LL IC NO_2 spike: Into a 200mL vol. pipetted 10mL W23500 & brought to vol. w/ Milli Q DI H_2O tv= 50mg/L exp: 12/30/10

*W25174 ESC 11/30/10 LL IC PO_4^- spike: Into a 200mL vol. pipetted 6mL W23501 + brought to vol. w/ Milli Q DI H_2O tv= 30mg/L exp: 12/30/10

W25175 ESC 11/30/10 LL IC LODWV: Into a 200mL vol. pipetted ~~0.02~~ 0.033 mL W25174, 0.04mL W25172 & W25173 & brought to vol. w/ Milli Q DI H_2O tv= 0.005mg/L PO_4^- & 0.02mg/L NO_2+NO_3 exp: ~~11/30/10~~ 12/1/10 ESC 11/30/10

W25176 ESC 11/30/10 LL IC LOQWV: Into a 200mL vol. pipetted 0.107mL W25174 & 0.4mL W25172 & W25173 & brought to vol. w/ Milli Q DI H_2O tv= 0.016mg/L PO_4^- & 0.2mg/L NO_2+NO_3 exp: 12/1/10

W25177 ESC 11/30/10 IC LODSV: Into a 500mL vol. pipetted 0.015mL Fl W24612 & NO_2 W22679, 0.025mL Br W23469 & NO_3 W22939, 0.05mL PO_4^- W23289, 0.75mL Cl^- W24670, & 0.55mL SO_4^- W23936, & brought to vol. w/ MilliQ DI H_2O tv= ~~0.03~~ 0.3 mg/kg Fl & NO_2, 0.5mg/kg Br & NO_3, 0.8mg/kg NO_2+NO_3, 1mg/kg PO_4^-, 15mg/kg Cl^-, 11mg/kg SO_4 exp: 12/1/10 ESC 11/30/10

W25178 ESC 11/30/10 IC LOQSV: Into a 100mL vol. pipetted 0.01mL Br W23469, 0.02mL Fl W24612 & NO_2 W22679, 0.04mL NO_3 W22939, 0.052mL PO_4 W23289, 0.37mL SO_4^- W23936, & 0.48mL Cl^- W24670 & brought to vol. w/ Milli Q DI H_2O, tv= ~~0.1~~ 1 mg/kg Br, 2mg/kg NO_2 & Fl, 4mg/kg NO_3, 5.2mg/kg PO_4, 6mg/kg NO_2+NO_3, 37mg/kg SO_4, & 48mg/kg Cl exp: 12/1/10 ESC 11/30/10

W25179 JTB 12-1-10 PH 7.0 Buffer. MG Scientific cat # 1551-1 4L. lot # 4010642 exp: Oct 2012

W25180 JTB 12-1-10 PH 4.00 Buffer 4L. MG Scientific cat # 1501-1 lot # 4011071 exp: Nov. 2012

ATS 12/1/10

Continued on Page

Read and Understood By

Signed Date Signed Date

W23964 CES 6/7/10 CV Buffer - Into a 500mL vol dissolved 48.5g potassium phosphate Monobasic W23209 ✓ filled to vol w/ dI H_2O exp 7/7/10.

W23965 CES 6/7/10 Chloramine T - Into a 500mL vol dissolved 2g W22491 ✓ filled to vol w/ dI H_2O. exp 6/8/10

W23966 ESC 6/7/10 NH_3 LCS: Into a 200mL vol. pipetted 1mL W23736 & brought to vol. w/ DI H_2O exp: 6/14/10

W23967 CES 6/7/10 Buffer 10. MG Scientific cat # H300-11, lot 191 2019 exp May 2011

W23968 ESC 6/8/10 Borate Buffer: Into a 1L vol. volumetrically added 500mL Na Tetraborate ~~W23609~~ W23969 & 88mL 0.1N NaOH W22412 & filled to vol. w/ DI H_2O exp: 7/8/10

W23969 ESC 6/8/10 Na Tetraborate: Into a 1L vol. dissolved 9.5g Na Tetraborate W23610 & filled to vol. w/ DI H_2O exp: 7/8/10

W23970 ESC 6/8/10 KMB NH_3 ~~DW~~ Dist Blind Spike: Into a 50mL vol. flask pipetted 0.15mL NH_3 LCS stock W23736 & brought to vol. w/ DI H_2O ESC 6/8/10

W23971 MWD 6/8/10 IC Mixed ICV/LCS - Into a 500mL vol. pipetted 20mL LCS Stock W23432 & brought to vol. w/ MilliQ H_2O. exp - 7-8-10

Continued on Page

Read and Understood By

Signed | Date | Signed | Date

Notebook No. _____ 31

PROJECT _____ Continued From Page _____

*W22924 mul TOCS LOD/MDL check into a weigh boat added ≈ 1mg
1/14/10 Dextrose W12491

*W22925 mul TOCS MRL/LOQ check into a weigh boat added ≈ 3mg
1/14/10 Dextrose W12491

*W22926 CES pH Buffer 4 - J.T. Baker cat # 5657-03 lot # H39504
1/15/10 exp 10/31/11

*W22927 CES pH Buffer 7 - J.T. Baker cat # 5656-03 lot # H44504
1/15/10 exp 11/30/11

*W22928 ESC 1/16/10 1/15/10 ESC 1/15/10 TKN/TPhos LOQW: Into a 100 mL vol. pipetted 0.04mL TKN/NH_3 LCS stock ~~W22715~~ W22929 ESC 1/16/10 + 0.05 mL TPhos LCS stock W20988. True value = 0.4 mg/L N + 0.5 mg/L P filled to vol. w/ DI H_2O

*W22929 ESC 1/16/10 1/15/10 ESC 1/15/10 TKN/NH_3 LCS stock 1000 mg/L: Into a 1L vol. dissolved 3.819 g NH_4Cl W18892 + pipetted 2mL ESC 1/15/10 2/15/10 H_2SO_4 W22816 + brought to vol. w/ DI H_2O exp ~~2/16/10~~

*W22930 ESC 1/15/10 TKN/TPhos LOQWV: Into a 100 mL vol. pipetted 0.13 mL W22929 + 0.16 mL W20988 + filled to vol. w/ DI H_2O. true value = 1.3 mg/L N + 1.6 mg/L P

W22931 ESC 1/15/10 TKN/~~TP~~ ESC 1/15/10 MDLWV: Into a 100mL vol. pipetted 0.04 mL W22929 + filled to vol. w/ DI H_2O. true value = 0.4 mg/L N

Continued on Page

Read and Understood By

Signed Date Signed Date

W21500 CES 5/21/09 Alk MDL check - Into a 50 mL vol. pipetted 0.1mL W21306 ~ filled to vol w/ CO_2 free dI H_2O. exp 5/24/09

W21501 CES 5/22/09 TKN/TPhos MDL check - Into a 100mL vol pipetted ~~0.06mL~~ 0.03 CES 5/22/09 W20988 + 0.015 mL W21400 - filled to vol w/ dI H_2O. Phos TV= ~~0.6mg/L~~ 0.3mg/L CES 5/22/09 TKN TV= 0.15mg/L

W21502 mod 5/22/09 4-Aminoantipyrine color reagent into a 500mL Vol. dissolved 0.32g 4-AAP W14472 + brought to Vol. w/ DI H_2O exp 5/23/09

W21503 mod 5/22/09 Phenolics Buffer into a 500ml Vol. dissolved 1g $K_3Fe(CN)_6$ W15561 1.55g Boric acid W17921 1.875g KCL W20236 + volumetrically added 23.5ml 1m NaOH W21386 + brought to Vol. w/ DI H_2O exp 5-29-09

W21504 CES 5/26/09 0.8M NaOH - Into a 1L vol dissolved 32g NaOH W20719 ~ filled to vol w/ dI H_2O. exp 6/26/09

W21505 mod 5/26/09 NH_3 LCSW into a 200ml Vol. pipetted 1ml W21400 + brought to Vol. w/ DI H_2O

W21506 CES 5/26/09 TKN hypochlorite - Into a 500mL vol volumetrically added 20mL bleach W19937 ~ filled to vol w/ dI H_2O.

W21507 CES 5/26/09 TKN/TPhos MBL - Into a 100mL vol pipetted 0.11mL W20575 ~ 0.04mL W21258 ~ filled to vol diluent W21451. TPhos TV= 1.1 mg/L TKN TV= 0.4 mg/L

W21508 mod 5/26/09 PH 10 Buffer RiccA cat #1601-1 lot# 1904647 exp 10/2010

Continued on Page

Read and Understood By

Signed Date Signed Date

WSOLIDS Analytical Run
71954 on 11/24/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	870200		11/9/2010 0920		USACE - LOUISVILLE	RAVENNA	SOLIDS,PERCENT		S	4	
	870201	DLASS-005-0001-SO	11/9/2010 1525		USACE - LOUISVILLE	RAVENNA	SOLIDS,PERCENT		S	4	
	870202	DLASS-014-0001-SO	11/9/2010 1500	Designated MS/MSD	USACE - LOUISVILLE	RAVENNA	SOLIDS,PERCENT		S	4	
	870203	DLASS-011-0001-SO	11/9/2010 1535		USACE - LOUISVILLE	RAVENNA	SOLIDS,PERCENT		S	4	
	870204	DLASS-014-0003-SO	11/10/2010 1316		USACE - LOUISVILLE	RAVENNA	SOLIDS,PERCENT		S	4	
	870207	DLASS-030-0001-SO	11/9/2010 1600		USACE - LOUISVILLE	RAVENNA	SOLIDS,PERCENT		S	4	
82458	871184	DLASS-026-0001-SO	11/11/2010 0900		USACE - LOUISVILLE	RAVENNA ORE PILES	SOLIDS,PERCENT		S	4	
82458	871186	DLASS-032-0003-SO	11/11/2010 1230		USACE - LOUISVILLE	RAVENNA ORE PILES	SOLIDS,PERCENT		S	4	
82458	871187	DLASS-042-0003-SO	11/11/2010 0931		USACE - LOUISVILLE	RAVENNA ORE PILES	SOLIDS,PERCENT		S	4	
82458	871188	DLASS-035-0001-SO	11/11/2010 1045		USACE - LOUISVILLE	RAVENNA ORE PILES	SOLIDS,PERCENT		S	4	
82458	871189	DLASS-036-0001-SO	11/11/2010 0945		USACE - LOUISVILLE	RAVENNA ORE PILES	SOLIDS,PERCENT		S	4	
82458	871190	DLASS-031-0001-SO	11/11/2010 1000		USACE - LOUISVILLE	RAVENNA ORE PILES	SOLIDS,PERCENT		S	4	
82458	871191	DLASS-039-0001-SO	11/11/2010 1310		USACE - LOUISVILLE	RAVENNA ORE PILES	SOLIDS,PERCENT		S	4	
82458	871192	DLASS-037-0001-SO	11/11/2010 1030		USACE - LOUISVILLE	RAVENNA ORE PILES	SOLIDS,PERCENT		S	4	
82458	871193	DLASS-034-0001-SO	11/11/2010 1043		USACE - LOUISVILLE	RAVENNA ORE PILES	SOLIDS,PERCENT		S	4	
82458	871194	DLASS-038-0001-SO	11/11/2010 1235		USACE - LOUISVILLE	RAVENNA ORE PILES	SOLIDS,PERCENT		S	4	
82458	871195	DLASS-044-0001-SO	11/11/2010 1020		USACE - LOUISVILLE	RAVENNA ORE PILES	SOLIDS,PERCENT		S	4	
82458	871196	DLASS-041-0001-SO	11/11/2010 0920		USACE - LOUISVILLE	RAVENNA ORE PILES	SOLIDS,PERCENT		S	4	
82458	871197	DLASS-040-0001-SO	11/11/2010 1220		USACE - LOUISVILLE	RAVENNA ORE PILES	SOLIDS,PERCENT		S	4	
		DLASS-042-0001-SO									

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

WSOLIDS Analytical Run
71954 on 11/24/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
82458	871198		11/11/2010 0900		USACE - LOUISVILLE	RAVENNA ORE PILES	SOLIDS,PERCENT		S	**4**	
		DLASS-032-0001-SO									
	874181		11/9/2010 1525				SOLIDS,PERCENT				
		DLASS-014-0001-SO		DUP 870201							

21 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

Data Validation Checklist

LIMS #: 71954	Method: Total Solids SM2540B&G / Percent Solids SW846-5030A			
Analysis Date	Analyst / Data Interpreter	Independent Reviewer	Date of Review	Approved
11-22-10	JTG / CEJ	mml	11-28-10	(Yes) ... No

Instructions: Complete one checklist per *analytical run*. Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section, and may require the initiation of a Nonconformance Report.

Requirement:	Acceptance Criteria	Analyst Review		Independent Review		Comments: (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
1. Were samples analyzed within hold time?	7 days	X		X		
2. Were samples dried overnight?	> 8hours	X				
3. Were drying start and stop times recorded?	---	X				
4. Were duplicates analyzed at the appropriate frequency?	1 per 20 of similar matrix	X				
5. Were the duplicates within acceptable limits?	Within in house QC limits	X				
6. Are all samples on the job lists accounted for?	---	X				

SUBCONTRACTED ANALYSIS DOCUMENTS

158 Starlite Drive, Marietta, OH 45750 • T:740-373-4071 • F:740-373-4835 • http://www.microbac.com

Laboratory Report Number: L10110846

Client: Patrick Letterer, 1230 Lange Court, Baraboo, WI, 53913

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories.

Review and compilation of your report was completed by Microbac's Sales and Service Team. If you have questions, comments or require further assistance regarding this report, please contact your team member noted in the reviewed box below at 800-373-4071. Team member e-mail addresses also appear here for your convenience.

Kathy Albertson	*Team Chemist/Data Specialist*	Kathy.Albertson@microbac.com
Stephanie Mossburg	*Team Chemist/Data Specialist*	Stephanie.Mossburg@microbac.com
Tony Long	*Team Chemist/Data Specialist*	Tony.Long@microbac.com
Amanda Fickiesen	*Client Services Specialist*	Amanda.Fickiesen@microbac.com
Annie Brown	*Client Services Specialist*	Annie.Brown@microbac.com

This report was reviewed on December 10, 2010.

Stephanie Mossburg - Team Chemist/Data Specialist

I certify that all test results meet all of the requirements of the accrediting authority listed below. All results for soil samples are reported on a 'dry-weight' basis unless specified otherwise. Analytical results for water and wastes are reported on a 'as received' basis unless specified otherwise. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories. The reported results are related only to the samples analyzed as received.

This report was certified on December 10, 2010.

David Vandenberg - Managing Director

State of origin: Wisconsin
Accrediting authority: Department of Natural Resources ID:998202040
QAPP: DOD Ver 4.1
This report contains a total of 155 pages.

Look closer. Go further. Do more.

Microbac REPORT L10110846
PREPARED FOR CT Laboratories
WORK ID:

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1.0 Introduction

LABORATORY REPORT

L10110846

12/10/10 14:59

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: CT Laboratories
1230 Lange Court

Baraboo, WI 53913
Attention: Patrick Letterer

Project Number: 2694.006
Project: CT Labs
Site: CT LABS

Sample Summary

Client ID	Lab ID	Date Collected	Date Received
DLASS-032-0003-SO	L10110846-01	11/11/2010 09:00	11/24/2010
DLASS-042-0003-SO	L10110846-02	11/11/2010 12:30	11/24/2010
DLASS-042-0001-SO	L10110846-03	11/11/2010 12:20	11/24/2010
DLASS-032-0001-SO	L10110846-04	11/11/2010 09:00	11/24/2010

L1_A_PROD_COVER - Modified 02/06/2008
PDF File ID: 1857128
Report generated: 12/10/2010 14:59

2.0 Full Sample Data Package

2.1 Semivolatiles Data

2.1.1 Pesticide GC Data (8081)

2.1.1.1 Summary Data

Microbac Laboratories Inc.
GC PESTICIDES

Microbac Login No: L10110846

METHOD

Preparation: SW- 846 3550B(Soils)/3510C(Waters)/3580A (Waste dilution)

Analysis: SW-846 8081

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: For all compounds which yielded a %RSD greater than 20 %, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Continuing Calibration: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Labortory Control Sample: All acceptance criteria were met.

Matrix Spikes: Sample 04 was chosen for MS/MSD. The MS yielded % recoveries for 3 analytes that were above the acceptance limits and % recoveries for 4 analytes that were below the acceptance limits. The MSD yielded % recoveries for gamma-BHC that was above the acceptance limit and % recoveries for 5 analytes that were below the acceptance limits. All other acceptance criteria were met.

SAMPLES

Surrogates: All acceptance criteria were met.

Endrin/DDT Breakdown: All acceptance criteria were met.

Samples: For all samples which yielded results with an RPD of greater than 40% between the primary and confirmation column the appropriate flag was applied. All acceptance criteria were met.

Manual Integration Reason Codes

Microbac laboratory management has identified four general cases with valid reasons supporting the use of manual integration techniques.

Reason #1: Data System Fails to Select Correct Peak
In some cases the chromatography system selects and integrates the ”wrong peak”. In this case the analyst must correct the selection and force the system to integrate the proper peak. Other times the system may miss the peak completely.

Reason #2: Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak.
This phenomena is common at low concentrations where the signal:noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low area counts for the target compound.

Reason #3: Improperly Integrated Isomers and/or coeluting compounds.
This system often fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations are wrong, and they must be corrected by manual integration. Prime examples are benzo(k)fluoranthene and benzo(b)fluoranthene which are often unresolved and integrated improperly when both are present at low concentrations in standards or samples.

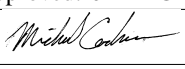
Reason #4: System Establishes Incorrect Baseline
There are numerous situations in chromatography where the system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and should be corrected via manual procedures.

Reason #5: Miscellaneous
Other situations involving integration errors may require in-depth review and technical judgment. These cases should be brought to the attention of the laboratory management. If the form of manual integration is not clearly covered by these four cases, then review and approval by the Laboratory Director or the QA/QC Supervisor will be required.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: ECL

Approved: 02-DEC-10



LABORATORY REPORT

L10110846

12/10/10 14:59

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: CT Laboratories
1230 Lange Court

Baraboo, WI 53913
Attention: Patrick Letterer

Project Number: 2694.006
Project: CT Labs
Site: CT LABS

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
DLASS-032-0003-SO	L10110846-01	8081A	1	24-NOV-10
DLASS-032-0003-SO	L10110846-01	8081A	1	24-NOV-10
DLASS-042-0003-SO	L10110846-02	8081A	1	24-NOV-10
DLASS-042-0001-SO	L10110846-03	8081A	1	24-NOV-10
DLASS-032-0001-SO	L10110846-04	8081A	1	24-NOV-10

Report Number: **L10110846**
Report Date : **December 10, 2010**

Sample Number: **L10110846-01**
Client ID: **DLASS-032-0003-SO**
Matrix: **Soil**
Workgroup Number: **WG350079**
Collect Date: **11/11/2010 09:00**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3550B**
Analytical Method: **8081A**
Analyst: **ECL**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP15**
Prep Date: **11/30/2010 10:45**
Cal Date: **09/27/2010 22:14**
Run Date: **12/01/2010 19:10**
File ID: **15G24276.F**
Percent Solid: **97.6**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
4,4'-DDD	72-54-8		U	1.68	0.336
4,4'-DDE	72-55-9		U	1.68	0.336
4,4'-DDT	50-29-3		U	1.68	0.336
Aldrin	309-00-2		U	1.68	0.336
alpha Chlordane	5103-71-9		U	1.68	0.336
alpha-BHC	319-84-6		U	1.68	0.336
beta-BHC	319-85-7		U	1.68	0.336
delta-BHC	319-86-8		U	1.68	0.336
Dieldrin	60-57-1		U	1.68	0.336
Endosulfan I	959-98-8		U	1.68	0.336
Endosulfan II	33213-65-9		U	1.68	0.336
Endosulfan sulfate	1031-07-8	0.632	J	1.68	0.336
Endrin	72-20-8		U	1.68	0.336
Endrin aldehyde	7421-93-4		U	1.68	0.336
Endrin ketone	53494-70-5		U	1.68	0.336
gamma Chlordane	5103-74-2		U	1.68	0.336
gamma-BHC (Lindane)	58-89-9		U	1.68	0.336
Heptachlor	76-44-8		U	1.68	0.336
Heptachlor epoxide	1024-57-3		U	1.68	0.336
Methoxychlor	72-43-5		U	1.68	0.336
Toxaphene	8001-35-2		U	33.6	17.0

Surrogate	% Recovery	Lower	Upper	Qual
2,4,5,6-Tetrachloro-m-xylene	72.4	70	125	
Decachlorobiphenyl	82.4	55	130	

J Estimated value ; the analyte concentration was less than the low standard (LOQ)
U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L10110846**
Report Date : **December 10, 2010**

Sample Number:	L10110846-01	PrePrep Method:	NONE	Instrument:	HP15
Client ID:	DLASS-032-0003-SO	Prep Method:	3550B	Prep Date:	11/30/2010 10:45
Matrix:	Soil	Analytical Method:	8081A	Cal Date:	09/27/2010 22:14
Workgroup Number:	WG350079	Analyst:	ECL	Run Date:	12/01/2010 19:39
Collect Date:	11/11/2010 09:00	Dilution:	1	File ID:	15G24276.R
Sample Tag:	CF01	Units:	ug/kg	Percent Solid:	97.6

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Endosulfan sulfate	1031-07-8	0.353	JQ	1.68	0.336

Surrogate	% Recovery	Lower	Upper	Qual
2,4,5,6-Tetrachloro-m-xylene	62.5	70	125	*
Decachlorobiphenyl	110	55	130	

***** **Surrogate or spike compound out of range**
JQ **JQ**

Report Number: **L10110846**
Report Date : **December 10, 2010**

Sample Number: **L10110846-02**
Client ID: **DLASS-042-0003-SO**
Matrix: **Soil**
Workgroup Number: **WG350079**
Collect Date: **11/11/2010 12:30**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3550B**
Analytical Method: **8081A**
Analyst: **ECL**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP15**
Prep Date: **11/30/2010 10:45**
Cal Date: **09/27/2010 22:14**
Run Date: **12/01/2010 19:39**
File ID: **15G24277.F**
Percent Solid: **99.2**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
4,4'-DDD	72-54-8		U	1.62	0.325
4,4'-DDE	72-55-9		U	1.62	0.325
4,4'-DDT	50-29-3		U	1.62	0.325
Aldrin	309-00-2		U	1.62	0.325
alpha Chlordane	5103-71-9		U	1.62	0.325
alpha-BHC	319-84-6		U	1.62	0.325
beta-BHC	319-85-7		U	1.62	0.325
delta-BHC	319-86-8		U	1.62	0.325
Dieldrin	60-57-1		U	1.62	0.325
Endosulfan I	959-98-8		U	1.62	0.325
Endosulfan II	33213-65-9		U	1.62	0.325
Endosulfan sulfate	1031-07-8		U	1.62	0.325
Endrin	72-20-8		U	1.62	0.325
Endrin aldehyde	7421-93-4		U	1.62	0.325
Endrin ketone	53494-70-5		U	1.62	0.325
gamma Chlordane	5103-74-2		U	1.62	0.325
gamma-BHC (Lindane)	58-89-9		U	1.62	0.325
Heptachlor	76-44-8		U	1.62	0.325
Heptachlor epoxide	1024-57-3		U	1.62	0.325
Methoxychlor	72-43-5		U	1.62	0.325
Toxaphene	8001-35-2		U	32.5	16.4

Surrogate	% Recovery	Lower	Upper	Qual
2,4,5,6-Tetrachloro-m-xylene	72.5	70	125	
Decachlorobiphenyl	79.5	55	130	

U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L10110846**
Report Date : **December 10, 2010**

Sample Number: **L10110846-03**
Client ID: **DLASS-042-0001-SO**
Matrix: **Soil**
Workgroup Number: **WG350079**
Collect Date: **11/11/2010 12:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3550B**
Analytical Method: **8081A**
Analyst: **ECL**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP15**
Prep Date: **11/30/2010 10:45**
Cal Date: **09/27/2010 22:14**
Run Date: **12/01/2010 20:07**
File ID: **15G24278.F**
Percent Solid: **97.9**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
4,4'-DDD	72-54-8		U	1.68	0.336
4,4'-DDE	72-55-9		U	1.68	0.336
4,4'-DDT	50-29-3		U	1.68	0.336
Aldrin	309-00-2		U	1.68	0.336
alpha Chlordane	5103-71-9		U	1.68	0.336
alpha-BHC	319-84-6		U	1.68	0.336
beta-BHC	319-85-7		U	1.68	0.336
delta-BHC	319-86-8		U	1.68	0.336
Dieldrin	60-57-1		U	1.68	0.336
Endosulfan I	959-98-8		U	1.68	0.336
Endosulfan II	33213-65-9		U	1.68	0.336
Endosulfan sulfate	1031-07-8		U	1.68	0.336
Endrin	72-20-8		U	1.68	0.336
Endrin aldehyde	7421-93-4		U	1.68	0.336
Endrin ketone	53494-70-5		U	1.68	0.336
gamma Chlordane	5103-74-2		U	1.68	0.336
gamma-BHC (Lindane)	58-89-9		U	1.68	0.336
Heptachlor	76-44-8		U	1.68	0.336
Heptachlor epoxide	1024-57-3		U	1.68	0.336
Methoxychlor	72-43-5		U	1.68	0.336
Toxaphene	8001-35-2		U	33.6	17.0

Surrogate	% Recovery	Lower	Upper	Qual
2,4,5,6-Tetrachloro-m-xylene	76.1	70	125	
Decachlorobiphenyl	82.5	55	130	

U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L10110846**
Report Date : **December 10, 2010**

Sample Number:	L10110846-04	PrePrep Method:	NONE	Instrument:	HP15
Client ID:	DLASS-032-0001-SO	Prep Method:	3550B	Prep Date:	11/30/2010 10:45
Matrix:	Soil	Analytical Method:	8081A	Cal Date:	09/27/2010 22:14
Workgroup Number:	WG350079	Analyst:	ECL	Run Date:	12/01/2010 21:32
Collect Date:	11/11/2010 09:00	Dilution:	1	File ID:	15G24281.F
Sample Tag:	01	Units:	ug/kg	Percent Solid:	99.0

Analyte	CAS. Number	Result	Qual	LOQ	LOD
4,4'-DDD	72-54-8		U	1.93	0.386
4,4'-DDE	72-55-9		U	1.93	0.386
4,4'-DDT	50-29-3		U	1.93	0.386
Aldrin	309-00-2		U	1.93	0.386
alpha Chlordane	5103-71-9		U	1.93	0.386
alpha-BHC	319-84-6		U	1.93	0.386
beta-BHC	319-85-7		U	1.93	0.386
delta-BHC	319-86-8		U	1.93	0.386
Dieldrin	60-57-1		U	1.93	0.386
Endosulfan I	959-98-8		U	1.93	0.386
Endosulfan II	33213-65-9		U	1.93	0.386
Endosulfan sulfate	1031-07-8		U	1.93	0.386
Endrin	72-20-8		U	1.93	0.386
Endrin aldehyde	7421-93-4		U	1.93	0.386
Endrin ketone	53494-70-5		U	1.93	0.386
gamma Chlordane	5103-74-2		U	1.93	0.386
gamma-BHC (Lindane)	58-89-9		U	1.93	0.386
Heptachlor	76-44-8		U	1.93	0.386
Heptachlor epoxide	1024-57-3		U	1.93	0.386
Methoxychlor	72-43-5		U	1.93	0.386
Toxaphene	8001-35-2		U	38.6	19.5

Surrogate	% Recovery	Lower	Upper	Qual
2,4,5,6-Tetrachloro-m-xylene	79.3	70	125	
Decachlorobiphenyl	66.6	55	130	

U Analyte was not detected. The concentration is below the reported LOD.

2.1.1.2 QC Summary Data

Example 8081 Calculations

1.0 Calculating the Response Factor (RF) from the initial calibration (ICAL) data:

$$RF = \frac{As}{Cs}$$

where:	Example:
A_s = Area of the compound being measured in the standard	10000
C_s = Concentration of the compound being measured (ng/mL)	100
	RF = 100

2.0 Calculating the concentration (C) of a compound in water using data from prep log and quantitation report:*

$$C = \frac{(A_x)(Vf)(D)}{(RF)(Vi)}$$

where:	Example:
A_x = Area of the compound begin measured	10000
Vf = Final volume of sample extract (mL). (prep log)	1
D = Dilution factor for sample as a multiplier (10X=10)	1
RF = Response factor from ICAL calculated above.	100
Vi = Initial volume of sample (mL). (prep log)	1000
	C(ug/L) = 0.1

3.0 Calculating the concentration (C) of a compound in soil using data from prep log and quantitation report:*

$$C = \frac{(A_x)(Vf)(D)}{(RF)(Wi)}$$

where:	Example:
A_x = Area of the compound begin measured	10000
Vf = Final volume of sample extract (mL). (prep log)	1
D = Dilution factor for sample as a multiplier (10X=10)	1
RF = Response factor from ICAL calculated above.	100
Wi = Initial weight of sample (g).	30
	C(ug/kg) = 3.333333

* Concentrations appearing on instrument quantitation reports are on-column results and do not take into account initial volume, final volume and dilution factor.

Microbac Laboratories Inc.
Sample Extract Log

Workgroup: WG349954
Analyst: CPD
Spike Analyst: CPD
Method: 3550B
Run Date: 11/30/2010 10:45
SOP: EXP02 Revison 15
Spike Witness: RAH
Surr Solution: STD42482

Hexane Lot #: COA14969
Purified Lab Sand Lot #: COA14882
Na2SO4, Anhydrous,Powder Lot #: COA14768
Sodium Sulfate,Anhydrous,Granular (Lot #: COA14988
Florisil Disposable Column Lot #: COA14997
94:6 Hexane:Ether Lot #: RGT15506
50:50 Hexane:Ether Lot #: RGT15509

	SAMPLE #	Type	Reference	pH	Prod	Init Amnt	Surr Amnt	Spike Amnt	Spike Sol	Final Vol	Color
1	L10110841-01	SAMP			8081	30.44 g	.2 mL			10 mL	Transparent
2	L10110845-01	SAMP			8081	30.42 g	.2 mL			10 mL	Transparent
3	L10110845-02	SAMP			8081	30.38 g	.2 mL			10 mL	Transparent
4	L10110846-01	SAMP			8081	30.16 g	.2 mL			10 mL	Transparent
5	L10110846-02	SAMP			8081	30.7 g	.2 mL			10 mL	Transparent
6	L10110846-03	SAMP			8081	30.07 g	.2 mL			10 mL	Transparent
7	L10110846-04	SAMP			8081	25.92 g	.2 mL			10 mL	Transparent
8	WG349954-01	REF	L10110846-04		8081	25.92 g	.2 mL			10 mL	Transparent
9	WG349954-02	BLANK			8081	30 g	.2 mL			10 mL	Transparent
10	WG349954-03	LCS			8081	30 g	.2 mL	.25 mL	STD39617	10 mL	Transparent
11	WG349954-04	LCS_TOX			8081	30 g	.2 mL	.1 mL	STD40740	10 mL	Transparent
12	WG349954-05	MS	L10110846-04		8081	26.58 g	.2 mL	.25 mL	STD39617	10 mL	Transparent
13	WG349954-06	MSD	L10110846-04		8081	25.64 g	.2 mL	.25 mL	STD39617	10 mL	Transparent

Clean-ups	
Florisil	3620B

Analyst:

Reviewer:

EXTRACT - Modified 10/22/2008
PDF ID: 1852918
Report generated: 11/30/2010 15:22

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP15 Dataset: 092710
Analyst1: ECL Analyst2: NA
Method: 8081 SOP: GCS09 Rev: 12

Maintenance Log ID: 34722 Syringe Filter Lot#:

Column 1 ID: RTX-CLP Column 2 ID: RTX-CLP2

Workgroups:

CCV Std: STD40207 LCS STD: STD39880
Internal STD: NA Surrogate STD: STD39847 Calibration STD

Comments:

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	15G23690.F	ENDRIN/DDT	1	1	STD39983	09/27/10 12:35
2	15G23690.R	ENDRIN/DDT	1	1	STD39983	09/27/10 13:04
3	15G23691.F	TOX 10 PPM	1	1	STD40827	09/27/10 14:11
4	15G23691.R	TOX 10 PPM	1	1	STD40827	09/27/10 14:39
5	15G23692.F	CHLOR 10 PPM	1	1	STD40825	09/27/10 14:39
6	15G23692.R	CHLOR 10 PPM	1	1	STD40825	09/27/10 15:07
7	15G23693.F	TOX 10 PPM	1	1	STD40827	09/27/10 15:07
8	15G23693.R	TOX 10 PPM	1	1	STD40827	09/27/10 15:36
9	15G23694.F	CHLOR 10 PPM	1	1	STD40825	09/27/10 15:36
10	15G23694.R	CHLOR 10 PPM	1	1	STD40825	09/27/10 16:04
11	15G23695.F	WG343905-01 ENDRIN/DDT	1	1	STD39983	09/27/10 16:04
12	15G23695.R	WG343905-01 ENDRIN/DDT	1	1	STD39983	09/27/10 16:34
13	15G23696.F	WG343903-01 TOX ICAL 2000 PPB	1	1	STD40827	09/27/10 16:34
14	15G23696.R	WG343903-01 TOX ICAL 2000 PPB	1	1	STD40827	09/27/10 17:02
15	15G23697.F	WG343903-02 TOX ICAL 1000 PPB	1	1	STD40827	09/27/10 17:02
16	15G23697.R	WG343903-02 TOX ICAL 1000 PPB	1	1	STD40827	09/27/10 17:30
17	15G23698.F	WG343903-03 TOX ICAL 500 PPB	1	1	STD40827	09/27/10 17:30
18	15G23698.R	WG343903-03 TOX ICAL 500 PPB	1	1	STD40827	09/27/10 17:59
19	15G23699.F	WG343903-04 TOX ICAL 200 PPB	1	1	STD40827	09/27/10 17:59
20	15G23699.R	WG343903-04 TOX ICAL 200 PPB	1	1	STD40827	09/27/10 18:27
21	15G23700.F	WG343903-05 TOX ICAL 100 PPB	1	1	STD40827	09/27/10 18:27
22	15G23700.R	WG343903-05 TOX ICAL 100 PPB	1	1	STD40827	09/27/10 18:55
23	15G23701.F	WG343903-06 TOX ALT 500 PPB	1	1	STD40828	09/27/10 18:55
24	15G23701.R	WG343903-06 TOX ALT 500 PPB	1	1	STD40828	09/27/10 19:24
25	15G23702.F	WG343902-01 PEST ICAL 200 PPB	1	1	STD40207	09/27/10 19:24
26	15G23702.R	WG343902-01 PEST ICAL 200 PPB	1	1	STD40207	09/27/10 19:52
27	15G23703.F	WG343902-02 PEST ICAL 100 PPB	1	1	STD40207	09/27/10 19:52
28	15G23703.R	WG343902-02 PEST ICAL 100 PPB	1	1	STD40207	09/27/10 20:21
29	15G23704.F	WG343902-03 PEST ICAL 20 PPB	1	1	STD40207	09/27/10 20:21
30	15G23704.R	WG343902-03 PEST ICAL 20 PPB	1	1	STD40207	09/27/10 20:49
31	15G23705.F	WG343902-04 PEST ICAL 10 PPB	1	1	STD40207	09/27/10 20:49
32	15G23705.R	WG343902-04 PEST ICAL 10 PPB	1	1	STD40207	09/27/10 21:18
33	15G23706.F	WG343902-05 PEST ICAL 4 PPB	1	1	STD40207	09/27/10 21:18
34	15G23706.R	WG343902-05 PEST ICAL 4 PPB	1	1	STD40207	09/27/10 21:46

Page: 1 Approved: 01-OCT-10

Hema Vilasagar

Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP15 Dataset: 092710
Analyst1: ECL Analyst2: NA
Method: 8081 SOP: GCS09 Rev: 12

Maintenance Log ID: 34722 Syringe Filter Lot#:

Column 1 ID: RTX-CLP Column 2 ID: RTX-CLP2

Workgroups:

CCV Std: STD40207 LCS STD: STD39880
Internal STD: NA Surrogate STD: STD39847

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
35	15G23707.F	WG343902-06 PEST ICAL 1 PPB	1	1	STD40207	09/27/10 21:46
36	15G23707.R	WG343902-06 PEST ICAL 1 PPB	1	1	STD40207	09/27/10 22:14
37	15G23708.F	WG343902-07 PEST ALT 20 PPB	1	1	STD38730	09/27/10 22:14
38	15G23708.R	WG343902-07 PEST ALT 20 PPB	1	1	STD38730	09/27/10 22:43
39	15G23709.F	WG343904-01 CHLOR ICAL 2000 PPB	1	1	STD40825	09/27/10 22:43
40	15G23709.R	WG343904-01 CHLOR ICAL 2000 PPB	1	1	STD40825	09/27/10 23:11
41	15G23710.F	WG343904-02 CHLOR ICAL 1000 PPB	1	1	STD40825	09/27/10 23:11
42	15G23710.R	WG343904-02 CHLOR ICAL 1000 PPB	1	1	STD40825	09/27/10 23:39
43	15G23711.F	WG343904-03 CHLOR ICAL 500 PPB	1	1	STD40825	09/27/10 23:39
44	15G23711.R	WG343904-03 CHLOR ICAL 500 PPB	1	1	STD40825	09/28/10 00:08
45	15G23712.F	WG343904-04 CHLOR ICAL 200 PPB	1	1	STD40825	09/28/10 00:08
46	15G23712.R	WG343904-04 CHLOR ICAL 200 PPB	1	1	STD40825	09/28/10 00:36
47	15G23713.F	WG343904-05 CHLOR ICAL 100 PPB	1	1	STD40825	09/28/10 00:36
48	15G23713.R	WG343904-05 CHLOR ICAL 100 PPB	1	1	STD40825	09/28/10 01:04
49	15G23714.F	WG343521-01 BLANK	1	1		09/28/10 01:04
50	15G23714.R	WG343521-01 BLANK	1	1		09/28/10 01:33
51	15G23715.F	WG343521-02 LCS	1	1		09/28/10 01:33
52	15G23715.R	WG343521-02 LCS	1	1		09/28/10 02:01
53	15G23716.F	WG343521-03 LCS DUP	1	1		09/28/10 02:01
54	15G23716.R	WG343521-03 LCS DUP	1	1		09/28/10 02:29
55	15G23717.F	WG343521-04 TOX LCS	1	1		09/28/10 02:29
56	15G23717.R	WG343521-04 TOX LCS	1	1		09/28/10 02:58
57	15G23718.F	WG343521-05 CHLOR LCS	1	1		09/28/10 02:58
58	15G23718.R	WG343521-05 CHLOR LCS	1	1		09/28/10 03:26
59	15G23719.F	L10090495-06	1	1		09/28/10 03:26
60	15G23719.R	L10090495-06	1	1		09/28/10 03:54
61	15G23720.F	WG343905-02 ENDRIN/DDT	1	1	STD39983	09/28/10 03:54
62	15G23720.R	WG343905-02 ENDRIN/DDT	1	1	STD39983	09/28/10 04:23
63	15G23721.F	WG343905-03 PEST CCV 20 PPB	1	1	STD40207	09/28/10 04:23
64	15G23721.R	WG343905-03 PEST CCV 20 PPB	1	1	STD40207	09/28/10 04:51
65	15G23722.F	WG343906-01 TOX CCV 500 PPB	1	1	STD40827	09/28/10 04:51
66	15G23722.R	WG343906-01 TOX CCV 500 PPB	1	1	STD40827	09/28/10 05:19
67	15G23723.F	WG343907-01 CHLOR CCV 500 PPB	1	1	STD40827	09/28/10 05:19
68	15G23723.R	WG343907-01 CHLOR CCV 500 PPB	1	1	STD40827	09/28/10 05:48

Comments

Seq.	Rerun	Dil.	Reason	Analytes

Page: 2 Approved: 01-OCT-10

Hema Vilasagar

Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP15 Dataset: 120110
Analyst1: ECL Analyst2: NA
Method: 8081 SOP: GCS09 Rev: 12

Maintenance Log ID: Syringe Filter Lot#:

Column 1 ID: RTX-CLP Column 2 ID: RTX-CLP2
Workgroups:

CCV Std: STD40207 LCS STD: STD39617
Internal STD: NA Surrogate STD: STD42482 Calibration STD

Comments:

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	15G24266.F	WG350177-01 ENDRIN/DDT	1	1	STD39983	12/01/10 13:29
2	15G24266.R	WG350177-01 ENDRIN/DDT	1	1	STD39983	12/01/10 13:58
3	15G24267.F	WG350177-02 PEST CCV 20 PPB	1	1	STD40207	12/01/10 13:58
4	15G24267.R	WG350177-02 PEST CCV 20 PPB	1	1	STD40207	12/01/10 14:26
5	15G24268.F	WG350178-01 TOX CCV 500 PPB	1	1	STD40827	12/01/10 15:24
6	15G24268.R	WG350178-01 TOX CCV 500 PPB	1	1	STD40827	12/01/10 15:52
7	15G24269.F	ELAB PEST SPIKE 20 PPB	1	1	STD42746	12/01/10 15:52
8	15G24269.R	ELAB PEST SPIKE 20 PPB	1	1	STD42746	12/01/10 16:21
9	15G24270.F	WG349954-02 BLANK	7	1	SOIL	12/01/10 16:21
10	15G24270.R	WG349954-02 BLANK	7	1	SOIL	12/01/10 16:49
11	15G24271.F	WG349954-03 LCS	7	1	SOIL	12/01/10 16:49
12	15G24271.R	WG349954-03 LCS	7	1	SOIL	12/01/10 17:17
13	15G24272.F	WG349954-04 TOX LCS	7	1	SOIL	12/01/10 17:17
14	15G24272.R	WG349954-04 TOX LCS	7	1	SOIL	12/01/10 17:45
15	15G24273.F	L10110841-01	7	1	SOIL	12/01/10 17:45
16	15G24273.R	L10110841-01	7	1	SOIL	12/01/10 18:14
17	15G24274.F	L10110845-01	7	1	SOIL	12/01/10 18:14
18	15G24274.R	L10110845-01	7	1	SOIL	12/01/10 18:42
19	15G24275.F	L10110845-02	7	1	SOIL	12/01/10 18:42
20	15G24275.R	L10110845-02	7	1	SOIL	12/01/10 19:10
21	15G24276.F	L10110846-01	7	1	SOIL	12/01/10 19:10
22	15G24276.R	L10110846-01	7	1	SOIL	12/01/10 19:39
23	15G24277.F	L10110846-02	7	1	SOIL	12/01/10 19:39
24	15G24277.R	L10110846-02	7	1	SOIL	12/01/10 20:07
25	15G24278.F	L10110846-03	7	1	SOIL	12/01/10 20:07
26	15G24278.R	L10110846-03	7	1	SOIL	12/01/10 20:35
27	15G24279.F	WG350177-03 PEST CCV 10 PPB	1	1	STD40207	12/01/10 20:35
28	15G24279.R	WG350177-03 PEST CCV 10 PPB	1	1	STD40207	12/01/10 21:03
29	15G24280.F	WG350178-02 TOX CCV 200 PPB	1	1	STD40827	12/01/10 21:03
30	15G24280.R	WG350178-02 TOX CCV 200 PPB	1	1	STD40827	12/01/10 21:32
31	15G24281.F	L10110846-04 REF	7	1	SOIL	12/01/10 21:32
32	15G24281.R	L10110846-04 REF	7	1	SOIL	12/01/10 22:00
33	15G24282.F	WG349954-05 L10110846-04 MS	7	1	SOIL	12/01/10 22:00
34	15G24282.R	WG349954-05 L10110846-04 MS	7	1	SOIL	12/01/10 22:28

Page: 1 Approved: 02-DEC-10

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP15 Dataset: 120110
Analyst1: ECL Analyst2: NA
Method: 8081 SOP: GCS09 Rev: 12

Maintenance Log ID: Syringe Filter Lot#:

Column 1 ID: RTX-CLP Column 2 ID: RTX-CLP2
Workgroups:

CCV Std: STD40207 LCS STD: STD39617
Internal STD: NA Surrogate STD: STD42482

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
35	15G24283.F	WG349954-06 L10110846-04 MSD	7	1	SOIL	12/01/10 22:28
36	15G24283.R	WG349954-06 L10110846-04 MSD	7	1	SOIL	12/01/10 22:57
37	15G24284.F	HEXANE SOLVENT CHECK	1	1		12/01/10 22:57
38	15G24284.R	HEXANE SOLVENT CHECK	1	1		12/01/10 23:25
39	15G24285.F	WG350177-04 ENDRIN/DDT	1	1	STD39983	12/01/10 23:25
40	15G24285.R	WG350177-04 ENDRIN/DDT	1	1	STD39983	12/01/10 23:53
41	15G24286.F	WG350177-05 PEST CCV 20 PPB	1	1	STD40207	12/01/10 23:53
42	15G24286.R	WG350177-05 PEST CCV 20 PPB	1	1	STD40207	12/02/10 00:21
43	15G24287.F	WG350178-03 TOX CCV 500 PPB	1	1	STD40827	12/02/10 00:21
44	15G24287.R	WG350178-03 TOX CCV 500 PPB	1	1	STD40827	12/02/10 00:50

Comments

Seq.	Rerun	Dil.	Reason	Analytes
7	X			
	ELAB PEST SPIKE 20 PPB: Remix and rerun.			
17				
	L10110845-01: T-M-X surrogate failed low.			
19				
	L10110845-02: T-M-X surrogate failed low.			
33				
	L10110846-04 MS: 3 analytes failed high and 4 analytes failed low.			
35				
	L10110846-04 MSD: gamma-BHC failed high and 5 analytes failed low.			
42				
	WG350177-05 PEST CCV 20 PPB: Methoxychlor failed low on the rear (confirmation) column.			

Page: 2 Approved: 02-DEC-10

Microbac Laboratories Inc.

Data Checklist

Date: 27-SEP-2010
Analyst: ECL
Analyst: NA
Method: 8081
Instrument: HP15
Curve Workgroup: NA
Runlog ID: 36634
Analytical Workgroups: L10090495

ANALYTICAL	
System Performance Check	NA
DFTPP (MS)	NA
Endrin/DDT breakdown (8081/MS)	X
Pentachlorophenol/benzidine tailing (MS)	NA
Eluent check (IC)/system pressure (HPLC)	NA
Window standard (FID)	NA
Initial Calibration	X
Average RF	X
Linear regression or higher order curve	NA
Alternate source standard (ICV) % Difference	X
Continuing Calibration (CCV)	X
% D/% Drift	X
Minimum response factors (MS)	NA
Continuing calibration blank (CCB) (IC)	NA
Special standards	X
Blanks	X
TCL hits	X
Surrogate recoveries	X
LCS/LCSD (Laboratory Control Sample)	X
Recoveries	X
Surrogate recoveries	X
MS/MSD/Sample duplicates	NA
Recoveries	NA
%RPD	NA
Samples	X
TCL hits	X
Mass spectra (MS/HPLC)/2nd column confirmations (ECD/FID/HPLC)	X
Surrogate recoveries	X
Internal standard areas (MS)	NA
Library searches (MS)	NA
Calculations & correct factors	X
Compounds above calibration range	NA
Reruns	NA
Manual integrations	X
Project/client specific requirements	X
REPORTING	
Upload batch form	X
KOBRA workgroup data/forms/bench sheets	X
Case narratives	NA
Check for completeness	X
Primary Reviewer	ECL
SUPERVISORY/SECONDARY REVIEW	
Check for compliance with method and project specific requirements	X
Check the completeness/accuracy of reported information	X
Data qualifiers	X
Secondary Reviewer	HAV

Primary Reviewer:
28-SEP-2010

Secondary Reviewer:
01-OCT-2010

CHECKLIST1 - Modified 03/05/2008
Generated: OCT-01-2010 13:59:58

Microbac Laboratories Inc.

Data Checklist

Date: 01-DEC-2010
Analyst: ECL
Analyst: NA
Method: 8081
Instrument: HP15
Curve Workgroup: NA
Runlog ID: 37847
Analytical Workgroups: L10110841, L10110845, L10110846

ANALYTICAL	
System Performance Check	NA
DFTPP (MS)	NA
Endrin/DDT breakdown (8081/MS)	X
Pentachlorophenol/benzidine tailing (MS)	NA
Eluent check (IC)/system pressure (HPLC)	NA
Window standard (FID)	NA
Initial Calibration	NA
Average RF	NA
Linear regression or higher order curve	NA
Alternate source standard (ICV) % Difference	NA
Continuing Calibration (CCV)	X
% D/% Drift	X
Minimum response factors (MS)	NA
Continuing calibration blank (CCB) (IC)	NA
Special standards	NA
Blanks	X
TCL hits	X
Surrogate recoveries	X
LCS/LCSD (Laboratory Control Sample)	X
Recoveries	X
Surrogate recoveries	X
MS/MSD/Sample duplicates	X
Recoveries	X
%RPD	X
Samples	X
TCL hits	X
Mass spectra (MS/HPLC)/2nd column confirmations (ECD/FID/HPLC)	X
Surrogate recoveries	X
Internal standard areas (MS)	NA
Library searches (MS)	NA
Calculations & correct factors	X
Compounds above calibration range	NA
Reruns	NA
Manual integrations	X
Project/client specific requirements	NA
REPORTING	
Upload batch form	X
KOBRA workgroup data/forms/bench sheets	X
Case narratives	X
Check for completeness	X
Primary Reviewer	ECL
SUPERVISORY/SECONDARY REVIEW	
Check for compliance with method and project specific requirements	X
Check the completeness/accuracy of reported information	X
Data qualifiers	X
Secondary Reviewer	MDC

Primary Reviewer:
02-DEC-2010

Secondary Reviewer:
02-DEC-2010

CHECKLIST1 - Modified 03/05/2008
Generated: DEC-02-2010 12:48:54

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8081A AAB#: WG350079

Login Number: L10110846

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
DLASS-032-0003-SO	01	11/11/10					11/30/10	19.1	14	*	12/01/10	1.4	40	
DLASS-032-0003-SO	01	11/11/10					11/30/10	19.1	14	*	12/01/10	1.4	40	
DLASS-042-0003-SO	02	11/11/10					11/30/10	18.9	14	*	12/01/10	1.4	40	
DLASS-042-0001-SO	03	11/11/10					11/30/10	18.9	14	*	12/01/10	1.4	40	
DLASS-032-0001-SO	04	11/11/10					11/30/10	19.1	14	*	12/01/10	1.4	40	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 1855345
Report generated 12/08/2010 15:15

Microbac Laboratories Inc.
SURROGATE STANDARDS

Login Number: L10110846
Instrument Id: HP15
Workgroup (AAB#): WG350079

Method: 8081
CAL ID: HP15-27-SEP-10
Matrix: Soil

Sample Number	Dilution	Tag	1	2
L10110846-01	1.00	01	72.4	82.4
L10110846-01	1.00	CF01	62.5	110
L10110846-02	1.00	01	72.5	79.5
L10110846-03	1.00	01	76.1	82.5
L10110846-04	1.00	01	79.3	66.6
WG349954-02	1.00	01	84.1	83.1
WG349954-02	1.00	02	58.9	84.5
WG349954-03	1.00	01	70.4	87.1
WG349954-03	1.00	02	64.2	89.4
WG349954-04	1.00	03	68.5	85.6

Surrogates	Surrogate Limits		
1 - 2,4,5,6-Tetrachloro-m-xylene	70	-	125
2 - Decachlorobiphenyl	55	-	130

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

SURROGATES - Modified 03/06/2008
PDF File ID: 1855304
Report generated: 12/08/2010 15:15

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L10110846
Work Group: WG350079
Blank File ID: 15G24270.F
Blank Sample ID: WG349954-02
Prep Date: 11/30/10 10:45
Instrument ID: HP15
Analyzed Date: 12/01/10 16:21
Method: 8081A
Analyst: ECL

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG349954-03	15G24271.F	12/01/10 16:49	01
LCS_TOX	WG349954-04	15G24272.F	12/01/10 17:17	03
LCS	WG349954-03	15G24271.R	12/01/10 17:17	02
DLASS-032-0003-SO	L10110846-01	15G24276.F	12/01/10 19:10	01
DLASS-042-0003-SO	L10110846-02	15G24277.F	12/01/10 19:39	01
DLASS-032-0003-SO	L10110846-01	15G24276.R	12/01/10 19:39	CF01
DLASS-042-0001-SO	L10110846-03	15G24278.F	12/01/10 20:07	01
DLASS-032-0001-SO	L10110846-04	15G24281.F	12/01/10 21:32	01

Report Name: BLANK_SUMMARY
PDF File ID: 1855346
Report generated 12/08/2010 15:15

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number:	L10110846	Work Group:	WG350079
Blank File ID:	15G24270.R	Blank Sample ID:	WG349954-02
Prep Date:	11/30/10 10:45	Instrument ID:	HP15
Analyzed Date:	12/01/10 16:49	Method:	8081A
Analyst:	ECL		

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG349954-03	15G24271.F	12/01/10 16:49	01
LCS_TOX	WG349954-04	15G24272.F	12/01/10 17:17	03
LCS	WG349954-03	15G24271.R	12/01/10 17:17	02
DLASS-032-0003-SO	L10110846-01	15G24276.F	12/01/10 19:10	01
DLASS-042-0003-SO	L10110846-02	15G24277.F	12/01/10 19:39	01
DLASS-032-0003-SO	L10110846-01	15G24276.R	12/01/10 19:39	CF01
DLASS-042-0001-SO	L10110846-03	15G24278.F	12/01/10 20:07	01
DLASS-032-0001-SO	L10110846-04	15G24281.F	12/01/10 21:32	01

Report Name: BLANK_SUMMARY
PDF File ID: 1855346
Report generated 12/08/2010 15:15

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L10110846 Prep Date: 11/30/10 10:45 Sample ID: WG349954-02
Instrument ID: HP15 Run Date: 12/01/10 16:21 Prep Method: 3550B
File ID: 15G24270.F Analyst: ECL Method: 8081A
Workgroup (AAB#): WG350079 Matrix: Soil Units: ug/kg
Contract #: Cal ID: HP15-27-SEP-10

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
4,4'-DDD	0.330	1.65	0.330	1	U
4,4'-DDE	0.330	1.65	0.330	1	U
4,4'-DDT	0.330	1.65	0.330	1	U
Aldrin	0.330	1.65	0.330	1	U
alpha Chlordane	0.330	1.65	0.330	1	U
alpha-BHC	0.330	1.65	0.330	1	U
beta-BHC	0.330	1.65	0.330	1	U
delta-BHC	0.330	1.65	0.330	1	U
Dieldrin	0.330	1.65	0.330	1	U
Endosulfan I	0.330	1.65	0.330	1	U
Endosulfan II	0.330	1.65	0.330	1	U
Endosulfan sulfate	0.330	1.65	0.330	1	U
Endrin	0.330	1.65	0.330	1	U
Endrin aldehyde	0.330	1.65	0.330	1	U
Endrin ketone	0.330	1.65	0.330	1	U
gamma Chlordane	0.330	1.65	0.330	1	U
gamma-BHC (Lindane)	0.330	1.65	0.330	1	U
Heptachlor	0.330	1.65	0.330	1	U
Heptachlor epoxide	0.330	1.65	0.330	1	U
Methoxychlor	0.330	1.65	0.330	1	U
Toxaphene	16.7	33.0	16.7	1	U

Surrogates	% Recovery	Surrogate Limits			Qualifier
2,4,5,6-Tetrachloro-m-xylene	84.1	70	-	125	PASS
Decachlorobiphenyl	83.1	55	-	130	PASS

LOD Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 1855347
08-DEC-2010 15:15

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L10110846 Prep Date: 11/30/10 10:45 Sample ID: WG349954-02
Instrument ID: HP15 Run Date: 12/01/10 16:49 Prep Method: 3550B
File ID: 15G24270.R Analyst: ECL Method: 8081A
Workgroup (AAB#): WG350079 Matrix: Soil Units: ug/kg
Contract #: Cal ID: HP15-27-SEP-10

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
4,4'-DDD	0.330	1.65	0.330	1	U
4,4'-DDE	0.330	1.65	0.330	1	U
4,4'-DDT	0.330	1.65	0.330	1	U
Aldrin	0.330	1.65	0.330	1	U
alpha Chlordane	0.330	1.65	0.330	1	U
alpha-BHC	0.330	1.65	0.330	1	U
beta-BHC	0.330	1.65	0.330	1	U
delta-BHC	0.330	1.65	0.330	1	U
Dieldrin	0.330	1.65	0.330	1	U
Endosulfan I	0.330	1.65	0.330	1	U
Endosulfan II	0.330	1.65	0.330	1	U
Endosulfan sulfate	0.330	1.65	0.330	1	U
Endrin	0.330	1.65	0.330	1	U
Endrin aldehyde	0.330	1.65	0.330	1	U
Endrin ketone	0.330	1.65	0.330	1	U
gamma Chlordane	0.330	1.65	0.330	1	U
gamma-BHC (Lindane)	0.330	1.65	0.330	1	U
Heptachlor	0.330	1.65	0.330	1	U
Heptachlor epoxide	0.330	1.65	0.330	1	U
Methoxychlor	0.330	1.65	0.330	1	U
Toxaphene	16.7	33.0	16.7	1	U

Surrogates	% Recovery	Surrogate Limits			Qualifier
2,4,5,6-Tetrachloro-m-xylene	58.9	70	-	125	FAIL
Decachlorobiphenyl	84.5	55	-	130	PASS

LOD Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 1855347
08-DEC-2010 15:15

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L10110846 Run Date: 12/01/2010 Sample ID: WG349954-03
Instrument ID: HP15 Run Time: 16:49 Prep Method: 3550B
File ID: 15G24271.F Analyst: ECL Method: 8081A
Workgroup (AAB#): WG350079 Matrix: Soil Units: ug/kg
QC Key: DOD4 Lot#: STD39617 Cal ID: HP15-27-SEP-10

Analytes	Expected	Found	% Rec	LCS Limits	Q
4,4'-DDD	16.7	16.1	96.4	30 - 135	
4,4'-DDE	16.7	16.4	98.6	70 - 125	
4,4'-DDT	16.7	15.3	92.0	45 - 140	
Aldrin	16.7	13.4	80.2	45 - 140	
alpha Chlordane	16.7	15.4	92.5	65 - 120	
alpha-BHC	16.7	15.0	89.7	60 - 125	
beta-BHC	16.7	14.7	88.2	60 - 125	
delta-BHC	16.7	16.0	95.9	55 - 130	
Dieldrin	16.7	16.3	97.6	65 - 125	
Endosulfan I	16.7	12.5	75.2	15 - 135	
Endosulfan II	16.7	12.4	74.4	35 - 140	
Endosulfan sulfate	16.7	16.6	99.6	60 - 135	
Endrin	16.7	15.9	95.6	60 - 135	
Endrin aldehyde	16.7	13.6	81.6	35 - 145	
Endrin ketone	16.7	15.6	93.3	65 - 135	
gamma Chlordane	16.7	14.8	89.1	65 - 125	
gamma-BHC (Lindane)	16.7	15.2	91.2	60 - 125	
Heptachlor	16.7	14.5	87.0	50 - 140	
Heptachlor epoxide	16.7	13.2	78.9	65 - 130	
Methoxychlor	16.7	15.0	89.8	55 - 145	

Surrogates	% Recovery	Surrogate Limits	Qualifier
2,4,5,6-Tetrachloro-m-xylene	70.4	70 - 125	PASS
Decachlorobiphenyl	87.1	55 - 130	PASS

* EXCEEDS %REC LIMIT

LCS - Modified 03/06/2008
PDF File ID: 1855303
Report generated: 12/08/2010 15:15

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L10110846 Run Date: 12/01/2010 Sample ID: WG349954-04
Instrument ID: HP15 Run Time: 17:17 Prep Method: 3550B
File ID: 15G24272.F Analyst: ECL Method: 8081A
Workgroup (AAB#): WG350079 Matrix: Soil Units: ug/kg
QC Key: DOD4 Lot#: STD39617 Cal ID: HP15-27-SEP-10

Analytes	Expected	Found	% Rec	LCS Limits	Q
Toxaphene	66.7	54.2	81.4	25 - 138	

Surrogates	% Recovery	Surrogate Limits	Qualifier
2,4,5,6-Tetrachloro-m-xylene	68.5	70 - 125	FAIL
Decachlorobiphenyl	85.6	55 - 130	PASS

* EXCEEDS %REC LIMIT

LCS - Modified 03/06/2008
PDF File ID: 1855303
Report generated: 12/08/2010 15:15

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L10110846 Run Date: 12/01/2010 Sample ID: WG349954-03
Instrument ID: HP15 Run Time: 17:17 Prep Method: 3550B
File ID: 15G24271.R Analyst: ECL Method: 8081A
Workgroup (AAB#): WG350079 Matrix: Soil Units: ug/kg
QC Key: DOD4 Lot#: STD39617 Cal ID: HP15-27-SEP-10

Analytes	Expected	Found	% Rec	LCS Limits	Q
4,4'-DDD	16.7	15.2	91.3	30 - 135	
4,4'-DDE	16.7	15.2	91.4	70 - 125	
4,4'-DDT	16.7	15.5	93.2	45 - 140	
Aldrin	16.7	13.5	80.9	45 - 140	
alpha Chlordane	16.7	14.6	87.5	65 - 120	
alpha-BHC	16.7	13.4	80.3	60 - 125	
beta-BHC	16.7	11.0	66.1	60 - 125	
delta-BHC	16.7	14.2	85.1	55 - 130	
Dieldrin	16.7	14.6	87.5	65 - 125	
Endosulfan I	16.7	12.2	73.4	15 - 135	
Endosulfan II	16.7	12.6	75.7	35 - 140	
Endosulfan sulfate	16.7	15.9	95.1	60 - 135	
Endrin	16.7	15.3	91.9	60 - 135	
Endrin aldehyde	16.7	12.6	75.3	35 - 145	
Endrin ketone	16.7	15.8	94.9	65 - 135	
gamma Chlordane	16.7	14.7	88.2	65 - 125	
gamma-BHC (Lindane)	16.7	12.8	76.9	60 - 125	
Heptachlor	16.7	13.5	81.0	50 - 140	
Heptachlor epoxide	16.7	13.2	79.3	65 - 130	
Methoxychlor	16.7	16.9	101	55 - 145	

Surrogates	% Recovery	Surrogate Limits	Qualifier
2,4,5,6-Tetrachloro-m-xylene	64.2	70 - 125	FAIL
Decachlorobiphenyl	89.4	55 - 130	PASS

* EXCEEDS %REC LIMIT

LCS - Modified 03/06/2008
PDF File ID: 1855303
Report generated: 12/08/2010 15:15

Microbac Laboratories Inc.
MATRIX SPIKE AND MATRIX SPIKE DUP (MS/MSD)

Loginnum:L10110846 Cal ID:HP15- Worknum:WG350079
Instrument ID:HP15 Contract #: Method:8081A
Parent ID:WG349954-01 File ID:15G24281.F Dil:1 Matrix:SOLID
Sample ID:WG349954-05 MS File ID:15G24282.F Dil:1 Units:ug/kg
Sample ID:WG349954-06 MSD File ID:15G24283.F Dil:1 Percent Solid:99.0

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
4,4'-DDD	ND	19.0	22.2	117	19.7	18.5	93.8	18.5	30 - 135	30	
4,4'-DDE	ND	19.0	17.0	89.7	19.7	14.9	75.8	13.1	70 - 125	30	
4,4'-DDT	ND	19.0	14.7	77.5	19.7	12.8	64.9	14.1	45 - 140	30	
Aldrin	ND	19.0	12.3	64.9	19.7	9.99	50.7	21.0	45 - 140	30	
Dieldrin	ND	19.0	19.9	105	19.7	17.1	86.8	15.0	65 - 125	30	
Endosulfan I	ND	19.0	13.4	70.3	19.7	11.8	59.9	12.4	15 - 135	30	
Endosulfan II	ND	19.0	10.6	55.5	19.7	8.91	45.2	17.0	35 - 140	30	
Endosulfan sulfate	ND	19.0	9.67	50.9	19.7	7.92	40.2	19.8	60 - 135	30	*
Endrin	ND	19.0	18.0	94.6	19.7	15.4	78.0	15.7	60 - 135	30	
Endrin aldehyde	ND	19.0	5.84	30.7	19.7	4.87	24.7	18.2	35 - 145	30	*
Endrin ketone	ND	19.0	11.4	60.1	19.7	9.65	49.0	16.8	65 - 135	30	*
Heptachlor	ND	19.0	120	632	19.7	13.7	69.7	159	50 - 140	30	*#
Heptachlor epoxide	ND	19.0	14.2	74.8	19.7	12.5	63.3	13.2	65 - 130	30	*
Methoxychlor	ND	19.0	11.3	59.4	19.7	9.37	47.6	18.6	55 - 145	30	*
alpha Chlordane	ND	19.0	15.7	82.4	19.7	13.8	70.3	12.3	65 - 120	30	
alpha-BHC	ND	19.0	15.8	83.2	19.7	13.0	66.1	19.4	60 - 125	30	
beta-BHC	ND	19.0	26.9	141	19.7	23.3	118	14.1	60 - 125	30	*
delta-BHC	ND	19.0	17.5	92.2	19.7	8.60	43.7	68.3	55 - 130	30	*#
gamma Chlordane	ND	19.0	15.0	78.9	19.7	13.3	67.6	11.9	65 - 125	30	
gamma-BHC (Lindane)	ND	19.0	41.6	219	19.7	34.3	174	19.3	60 - 125	30	*

* FAILS %REC LIMIT

FAILS RPD LIMIT

NOTE: This is an internal quality control sample.

WG_MS_MSD_DRYWT - Modified 03/07/2008
PDF File ID: 1855348
Report generated 12/10/2010 14:43

Microbac Laboratories Inc.

INITIAL CALIBRATION SUMMARY

Login Number: L10110846 **Instrument ID:** HP15

Analytical Method: 8081A **Initial Calibration Date:** 27-SEP-10 18:55

ICAL Workgroup: WG343903 **Column ID:** F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD (R^2)
Toxaphene-1		2272000	3.77		
Toxaphene-2		1753000	1.92		
Toxaphene-3		2936000	2.57		
Toxaphene-4		1328000	2.31		
Toxaphene-5		1360000	2.84		

R = Correlation coefficient; 0.995 minimum
R^2 = Coefficient of determination; 0.99 minimum

INT_CAL - Modified 03/06/2008
PDF File ID: 1855350
Report generated 12/10/2010 11:33

Microbac Laboratories Inc.

INITIAL CALIBRATION SUMMARY

Login Number: L10110846 **Instrument ID:** HP15

Analytical Method: 8081A **Initial Calibration Date:** 27-SEP-10 18:55

ICAL Workgroup: WG343903 **Column ID:** R

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD (R^2)
Toxaphene-1		954800	6.43		
Toxaphene-2		3192000	4.74		
Toxaphene-3		962300	4.44		
Toxaphene-4		2180000	6.44		
Toxaphene-5		890200	4.71		

R = Correlation coefficient; 0.995 minimum
R^2 = Coefficient of determination; 0.99 minimum

INT_CAL - Modified 03/06/2008
PDF File ID: 1855350
Report generated 12/10/2010 11:33

Microbac Laboratories Inc.
INITIAL CALIBRATION SUMMARY

Login Number: L10110846 **Instrument ID:** HP15
Analytical Method: 8081A **Initial Calibration Date:** 27-SEP-10 22:14
ICAL Workgroup: WG343902 **Column ID:** F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD (R^2)
4,4'-DDD		103800000	4.77		
4,4'-DDE		127700000	4.44		
4,4'-DDT		118200000	6.26		
Aldrin		155300000	4.90		
Dieldrin		124100000	5.61		
Endosulfan I		124400000	6.68		
Endosulfan II		118800000	11.7		
Endosulfan Sulfate		95610000	10.7		
Endrin		121400000	4.18		
Endrin Aldehyde		91150000	8.47		
Endrin Ketone		109000000	8.58		
Heptachlor		151500000	5.22		
Heptachlor Epoxide		142000000	8.05		
Methoxychlor		56440000	8.48		
alpha-BHC		166900000	9.41		
alpha-Chlordane		135900000	1.96		
beta-BHC		69840000	2.41		
delta-BHC		153000000	9.53		
gamma-BHC		155900000	6.96		
gamma-Chlordane		148200000	4.75		

R = Correlation coefficient; 0.995 minimum
R^2 = Coefficient of determination; 0.99 minimum

INT_CAL - Modified 03/06/2008
PDF File ID: 1855350
Report generated 12/10/2010 11:33

Microbac Laboratories Inc.
INITIAL CALIBRATION SUMMARY

Login Number: L10110846
Analytical Method: 8081A
ICAL Workgroup: WG343902

Instrument ID: HP15
Initial Calibration Date: 27-SEP-10 22:14
Column ID: R

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD (R^2)
4,4'-DDD		86670000	2.57		
4,4'-DDE		104700000	2.77		
4,4'-DDT		89990000	2.28		
Aldrin		122700000	4.95		
Dieldrin		109100000	5.81		
Endosulfan I		93140000	10.9		
Endosulfan II		92490000	9.09		
Endosulfan Sulfate		72080000	4.56		
Endrin		92250000	7.11		
Endrin Aldehyde		71230000	15.0		
Endrin Ketone		80670000	6.17		
Heptachlor		136400000	8.52		
Heptachlor Epoxide		105300000	8.49		
Methoxychlor		44560000	15.0		
alpha-BHC		138600000	4.07		
alpha-Chlordane		109900000	5.72		
beta-BHC		64400000	6.86		
delta-BHC		139800000	3.08		
gamma-BHC		141200000	2.27		
gamma-Chlordane		113700000	3.29		

R = Correlation coefficient; 0.995 minimum
R^2 = Coefficient of determination; 0.99 minimum

INT_CAL - Modified 03/06/2008
PDF File ID: 1855350
Report generated 12/10/2010 11:33

Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L10110846
Analytical Method: 8081A
Instrument ID: HP15
Initial Calibration Date: 27-SEP-10 18:55
Column ID: F

Analyte	WG343903-01			WG343903-02			WG343903-03		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Toxaphene-1	2000	4675346690	2338000	1000	2330912800	2331000	500	1166330990	2333000
Toxaphene-2	2000	3427336800	1714000	1000	1786543570	1787000	500	885821455	1772000
Toxaphene-3	2000	5834618260	2917000	1000	2863787080	2864000	500	1509570590	3019000
Toxaphene-4	2000	2687591140	1344000	1000	1346648580	1347000	500	678166462	1356000
Toxaphene-5	2000	2769070200	1385000	1000	1377604310	1378000	500	697291872	1395000

INT_CAL - Modified 03/06/2008
PDF File ID: 1855350
Report generated 12/10/2010 11:33

Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L10110846 **Instrument ID:** HP15

Analytical Method: 8081A **Initial Calibration Date:** 27-SEP-10 18:55

Column ID: F

Analyte	WG343903-04			WG343903-05		
	CONC	RESP	RF	CONC	RESP	RF
Toxaphene-1	200	432012831	2160000	100	219908941	2199000
Toxaphene-2	200	354420823	1772000	100	171891762	1719000
Toxaphene-3	200	573393547	2867000	100	301060427	3011000
Toxaphene-4	200	256414870	1282000	100	131155092	1312000
Toxaphene-5	200	260237757	1301000	100	134006051	1340000

INT_CAL - Modified 03/06/2008
PDF File ID: 1855350
Report generated 12/10/2010 11:33

Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L10110846
Analytical Method: 8081A
Instrument ID: HP15
Initial Calibration Date: 27-SEP-10 18:55
Column ID: R

Analyte	WG343903-01			WG343903-02			WG343903-03		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Toxaphene-1	2000	1731556870	865800	1000	933788203	933800	500	481377201	962800
Toxaphene-2	2000	5887290170	2944000	1000	3188830560	3189000	500	1628999710	3258000
Toxaphene-3	2000	1779888450	889900	1000	969004455	969000	500	497749168	995500
Toxaphene-4	2000	4091546820	2046000	1000	2027742820	2028000	500	1150089310	2300000
Toxaphene-5	2000	1658069640	829000	1000	880687960	880700	500	449310708	898600

INT_CAL - Modified 03/06/2008
PDF File ID: 1855350
Report generated 12/10/2010 11:33

Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L10110846 **Instrument ID:** HP15

Analytical Method: 8081A **Initial Calibration Date:** 27-SEP-10 18:55

Column ID: R

Analyte	WG343903-04			WG343903-05		
	CONC	RESP	RF	CONC	RESP	RF
Toxaphene-1	200	195851663	979300	100	103245688	1032000
Toxaphene-2	200	643889914	3219000	100	334886651	3349000
Toxaphene-3	200	192954112	964800	100	99244709.0	992400
Toxaphene-4	200	438853841	2194000	100	233181806	2332000
Toxaphene-5	200	179413948	897100	100	94559756.0	945600

INT_CAL - Modified 03/06/2008
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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L10110846 **Instrument ID:** HP15

Analytical Method: 8081A **Initial Calibration Date:** 27-SEP-10 22:14

Column ID: F

Analyte	WG343902-01			WG343902-02			WG343902-03		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
4,4'-DDD	200	21194229300	106000000	100	10716113000	107200000	20.0	2169099070	108500000
4,4'-DDE	200	25881063700	129400000	100	13215371500	132200000	20.0	2666877990	133300000
4,4'-DDT	200	22560811300	112800000	100	11516923900	115200000	20.0	2349242570	117500000
Aldrin	200	29991451600	150000000	100	15543074500	155400000	20.0	3238363240	161900000
Dieldrin	200	22624057700	113100000	100	12613312900	126100000	20.0	2693818770	134700000
Endosulfan I	200	22145993000	110700000	100	11749255600	117500000	20.0	2578305980	128900000
Endosulfan II	200	20609691500	103000000	100	10742082000	107400000	20.0	2345930200	117300000
Endosulfan Sulfate	200	17294032500	86470000	100	8739187090	87390000	20.0	1846351990	92320000
Endrin	200	22638957100	113200000	100	11852387700	118500000	20.0	2536248670	126800000
Endrin Aldehyde	200	15978969900	79890000	100	8333464510	83330000	20.0	1852631110	92630000
Endrin Ketone	200	19622203400	98110000	100	10067206300	100700000	20.0	2165265130	108300000
Heptachlor	200	27604826100	138000000	100	14584543200	145800000	20.0	3140753570	157000000
Heptachlor Epoxide	200	24925364700	124600000	100	13184460000	131800000	20.0	2905867280	145300000
Methoxychlor	200	9867586560	49340000	100	5145335120	51450000	20.0	1167801210	58390000
alpha-BHC	200	36594436600	183000000	100	18039039200	180400000	20.0	3486980620	174300000
alpha-Chlordane	200	26284355200	131400000	100	13449739800	134500000	20.0	2780388460	139000000
beta-BHC	200	13625441400	68130000	100	6743339770	67430000	20.0	1403329440	70170000
delta-BHC	200	33542082300	167700000	100	16650915300	166500000	20.0	3187199340	159400000
gamma-BHC	200	33131432200	165700000	100	16381372800	163800000	20.0	3232286080	161600000
gamma-Chlordane	200	28416177900	142100000	100	14316361300	143200000	20.0	2937271750	146900000

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L10110846
Analytical Method: 8081A

Instrument ID: HP15
Initial Calibration Date: 27-SEP-10 22:14
Column ID: F

Analyte	WG343902-04			WG343902-05			WG343902-06		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
4,4'-DDD	10.0	1059153690	105900000	4.00	399146773	99790000	1.00	95781392.0	95780000
4,4'-DDE	10.0	1298308620	129800000	4.00	489666784	122400000	1.00	119119984	119100000
4,4'-DDT	10.0	1188340490	118800000	4.00	450838675	112700000	1.00	132489120	132500000
Aldrin	10.0	1663617080	166400000	4.00	606877502	151700000	1.00	146271662	146300000
Dieldrin	10.0	1217436240	121700000	4.00	498771270	124700000	1.00	124513513	124500000
Endosulfan I	10.0	1296010290	129600000	4.00	511937568	128000000	1.00	131452673	131500000
Endosulfan II	10.0	1210266810	121000000	4.00	485204663	121300000	1.00	142729135	142700000
Endosulfan Sulfate	10.0	951769872	95180000	4.00	391882720	97970000	1.00	114341632	114300000
Endrin	10.0	1262301300	126200000	4.00	487898552	122000000	1.00	121540813	121500000
Endrin Aldehyde	10.0	954105342	95410000	4.00	393678703	98420000	1.00	97215007.0	97220000
Endrin Ketone	10.0	1096922190	109700000	4.00	450781763	112700000	1.00	124321632	124300000
Heptachlor	10.0	1575742910	157600000	4.00	617635845	154400000	1.00	156292702	156300000
Heptachlor Epoxide	10.0	1480739550	148100000	4.00	585733045	146400000	1.00	155432282	155400000
Methoxychlor	10.0	590681161	59070000	4.00	239335070	59830000	1.00	60580494.0	60580000
alpha-BHC	10.0	1672185180	167200000	4.00	611426510	152900000	1.00	143650637	143700000
alpha-Chlordane	10.0	1364655710	136500000	4.00	544785800	136200000	1.00	137752674	137800000
beta-BHC	10.0	710572860	71060000	4.00	282463743	70620000	1.00	71641717.0	71640000
delta-BHC	10.0	1526652160	152700000	4.00	562232779	140600000	1.00	131354429	131400000
gamma-BHC	10.0	1594698720	159500000	4.00	583031928	145800000	1.00	139089696	139100000
gamma-Chlordane	10.0	1478303600	147800000	4.00	590879543	147700000	1.00	161741975	161700000

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L10110846 **Instrument ID:** HP15

Analytical Method: 8081A **Initial Calibration Date:** 27-SEP-10 22:14

Column ID: R

Analyte	WG343902-01			WG343902-02			WG343902-03		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
4,4'-DDD	200	16614002400	83070000	100	8525213550	85250000	20.0	1778003840	88900000
4,4'-DDE	200	19941047200	99710000	100	10327524300	103300000	20.0	2149460870	107500000
4,4'-DDT	200	17325402300	86630000	100	8864492900	88640000	20.0	1839381880	91970000
Aldrin	200	22416268700	112100000	100	11866070000	118700000	20.0	2532327880	126600000
Dieldrin	200	19765486500	98830000	100	10386995800	103900000	20.0	2240577580	112000000
Endosulfan I	200	15964385200	79820000	100	8119154930	81190000	20.0	1924782410	96240000
Endosulfan II	200	16141070300	80710000	100	8460925580	84610000	20.0	1867174690	93360000
Endosulfan Sulfate	200	13469401900	67350000	100	6905619140	69060000	20.0	1462606850	73130000
Endrin	200	16634162600	83170000	100	8456040400	84560000	20.0	1924526170	96230000
Endrin Aldehyde	200	11769174700	58850000	100	5990453460	59900000	20.0	1413967820	70700000
Endrin Ketone	200	14657066800	73290000	100	7608135530	76080000	20.0	1641625280	82080000
Heptachlor	200	23694108200	118500000	100	12630180800	126300000	20.0	2793625170	139700000
Heptachlor Epoxide	200	18364071300	91820000	100	9636513330	96370000	20.0	2179900540	109000000
Methoxychlor	200	7439048780	37200000	100	3827673210	38280000	20.0	862722214	43140000
alpha-BHC	200	28042108700	140200000	100	14273426100	142700000	20.0	2879699130	144000000
alpha-Chlordane	200	20399638100	102000000	100	10447867700	104500000	20.0	2188646480	109400000
beta-BHC	200	11793440000	58970000	100	6001004550	60010000	20.0	1277569850	63880000
delta-BHC	200	27983530100	139900000	100	14214413200	142100000	20.0	2897163540	144900000
gamma-BHC	200	27404979600	137000000	100	14076586400	140800000	20.0	2902924990	145100000
gamma-Chlordane	200	21552683900	107800000	100	11044032200	110400000	20.0	2308330840	115400000

INT_CAL - Modified 03/06/2008
PDF File ID: 1855350
Report generated 12/10/2010 11:33

Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L10110846 **Instrument ID:** HP15

Analytical Method: 8081A **Initial Calibration Date:** 27-SEP-10 22:14

Column ID: R

Analyte	WG343902-04			WG343902-05			WG343902-06		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
4,4'-DDD	10.0	881750530	88180000	4.00	345522769	86380000	1.00	88232424.0	88230000
4,4'-DDE	10.0	1069666210	107000000	4.00	418166003	104500000	1.00	106165867	106200000
4,4'-DDT	10.0	915000878	91500000	4.00	359746951	89940000	1.00	91287819.0	91290000
Aldrin	10.0	1266446170	126600000	4.00	499458545	124900000	1.00	127145996	127100000
Dieldrin	10.0	1126758740	112700000	4.00	447662049	111900000	1.00	115321072	115300000
Endosulfan I	10.0	963495591	96350000	4.00	408584368	102100000	1.00	103079922	103100000
Endosulfan II	10.0	955277608	95530000	4.00	389364402	97340000	1.00	103402630	103400000
Endosulfan Sulfate	10.0	731373807	73140000	4.00	293795649	73450000	1.00	76367184.0	76370000
Endrin	10.0	951824798	95180000	4.00	390336176	97580000	1.00	96794745.0	96790000
Endrin Aldehyde	10.0	725798991	72580000	4.00	316358589	79090000	1.00	86240097.0	86240000
Endrin Ketone	10.0	826336673	82630000	4.00	333075528	83270000	1.00	86651814.0	86650000
Heptachlor	10.0	1416590820	141700000	4.00	570574062	142600000	1.00	149634508	149600000
Heptachlor Epoxide	10.0	1099812630	110000000	4.00	452460865	113100000	1.00	111767171	111800000
Methoxychlor	10.0	452016921	45200000	4.00	192974403	48240000	1.00	55282548.0	55280000
alpha-BHC	10.0	1406517680	140700000	4.00	539834664	135000000	1.00	128975275	129000000
alpha-Chlordane	10.0	1109613770	111000000	4.00	450817694	112700000	1.00	119716271	119700000
beta-BHC	10.0	654470357	65450000	4.00	270406435	67600000	1.00	70498702.0	70500000
delta-BHC	10.0	1420602410	142100000	4.00	546178423	136500000	1.00	133039140	133000000
gamma-BHC	10.0	1449180660	144900000	4.00	558608283	139700000	1.00	139816630	139800000
gamma-Chlordane	10.0	1159004710	115900000	4.00	462812786	115700000	1.00	117189239	117200000

INT_CAL - Modified 03/06/2008
PDF File ID: 1855350
Report generated 12/10/2010 11:33

Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L10110846 Run Date: 09/27/2010 Sample ID: WG343903-06
Instrument ID: HP15 Run Time: 18:55 Method: 8081A
File ID: 15G23701.F Analyst: ECL QC Key: DOD4
ICal Workgroup: WG343903 Cal ID: HP15 - 27-SEP-10

Analyte		Expected	Found	Units	RF	%D	UCL	Q
Toxaphene		500	450	ug/L	1720000	10.0	20	

* Exceeds %D Limit

ALT - Modified 09/06/2007
Version 1.5 PDF File ID: 1855351
Report generated 12/08/2010 15:15

Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L10110846 Run Date: 09/27/2010 Sample ID: WG343903-06
Instrument ID: HP15 Run Time: 19:24 Method: 8081A
File ID: 15G23701.R Analyst: ECL QC Key: DOD4
ICal Workgroup: WG343903 Cal ID: HP15 - 27-SEP-10

Analyte		Expected	Found	Units	RF	%D	UCL	Q
Toxaphene		500	446	ug/L	1510000	10.7	20	

* Exceeds %D Limit

ALT - Modified 09/06/2007
Version 1.5 PDF File ID: 1855351
Report generated 12/08/2010 15:15

Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L10110846 Run Date: 09/27/2010 Sample ID: WG343902-07
Instrument ID: HP15 Run Time: 22:14 Method: 8081A
File ID: 15G23708.F Analyst: ECL QC Key: DOD4
ICal Workgroup: WG343902 Cal ID: HP15 - 27-SEP-10

Analyte		Expected	Found	Units	RF	%D	UCL	Q
4,4'-DDD		20.0	19.8	ug/L	103000000	0.900	20	
4,4'-DDE		20.0	20.4	ug/L	130000000	1.90	20	
4,4'-DDT		20.0	19.1	ug/L	113000000	4.60	20	
Aldrin		20.0	19.7	ug/L	153000000	1.60	20	
alpha-Chlordane		20.0	19.6	ug/L	133000000	2.20	20	
alpha-BHC		20.0	19.9	ug/L	166000000	0.700	20	
beta-BHC		20.0	19.5	ug/L	68100000	2.40	20	
delta-BHC		20.0	19.7	ug/L	151000000	1.50	20	
Dieldrin		20.0	19.9	ug/L	124000000	0.300	20	
Endosulfan I		20.0	19.9	ug/L	124000000	0.300	20	
Endosulfan II		20.0	18.7	ug/L	111000000	6.60	20	
Endosulfan Sulfate		20.0	18.9	ug/L	90200000	5.70	20	
Endrin		20.0	19.8	ug/L	120000000	1.00	20	
Endrin Aldehyde		20.0	19.2	ug/L	87600000	3.90	20	
Endrin Ketone		20.0	19.9	ug/L	108000000	0.500	20	
gamma-Chlordane		20.0	19.0	ug/L	141000000	5.10	20	
gamma-BHC		20.0	19.9	ug/L	155000000	0.700	20	
Heptachlor		20.0	19.9	ug/L	151000000	0.600	20	
Heptachlor Epoxide		20.0	19.3	ug/L	137000000	3.70	20	
Methoxychlor		20.0	19.9	ug/L	56200000	0.400	20	

* Exceeds %D Limit

ALT - Modified 09/06/2007
Version 1.5 PDF File ID: 1855351
Report generated 12/08/2010 15:15

Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L10110846 Run Date: 09/27/2010 Sample ID: WG343902-07
Instrument ID: HP15 Run Time: 22:43 Method: 8081A
File ID: 15G23708.R Analyst: ECL QC Key: DOD4
ICal Workgroup: WG343902 Cal ID: HP15 - 27-SEP-10

Analyte		Expected	Found	Units	RF	%D	UCL	Q
4,4'-DDD		20.0	19.5	ug/L	84500000	2.50	20	
4,4'-DDE		20.0	20.2	ug/L	106000000	0.900	20	
4,4'-DDT		20.0	19.6	ug/L	88300000	1.80	20	
Aldrin		20.0	19.6	ug/L	120000000	2.10	20	
alpha-Chlordane		20.0	19.1	ug/L	105000000	4.50	20	
alpha-BHC		20.0	19.9	ug/L	138000000	0.600	20	
beta-BHC		20.0	19.5	ug/L	62900000	2.40	20	
delta-BHC		20.0	19.8	ug/L	139000000	0.900	20	
Dieldrin		20.0	19.2	ug/L	105000000	3.80	20	
Endosulfan I		20.0	19.8	ug/L	92200000	1.00	20	
Endosulfan II		20.0	19.1	ug/L	88500000	4.30	20	
Endosulfan Sulfate		20.0	19.4	ug/L	70000000	2.90	20	
Endrin		20.0	19.7	ug/L	90900000	1.50	20	
Endrin Aldehyde		20.0	22.0	ug/L	78300000	9.90	20	
Endrin Ketone		20.0	20.2	ug/L	81400000	0.900	20	
gamma-Chlordane		20.0	19.3	ug/L	110000000	3.40	20	
gamma-BHC		20.0	19.7	ug/L	139000000	1.70	20	
Heptachlor		20.0	19.7	ug/L	135000000	1.30	20	
Heptachlor Epoxide		20.0	19.8	ug/L	104000000	0.900	20	
Methoxychlor		20.0	19.1	ug/L	42500000	4.70	20	

* Exceeds %D Limit

ALT - Modified 09/06/2007
Version 1.5 PDF File ID: 1855351
Report generated 12/08/2010 15:15

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L10110846 Run Date: 12/01/2010 Sample ID: WG350177-02
Instrument ID: HP15 Run Time: 13:58 Method: 8081A
File ID: 15G24267.F Analyst: ECL QC Key: DOD4
Workgroup (AAB#): WG350079 Cal ID: HP15 - 27-SEP-10
Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
4,4'-DDD		20.0	22.4	ug/L	117000000	12.2	20	
4,4'-DDE		20.0	21.8	ug/L	139000000	9.13	20	
4,4'-DDT		20.0	19.7	ug/L	116000000	1.48	20	
Aldrin		20.0	20.3	ug/L	158000000	1.47	20	
alpha-Chlordane		20.0	21.7	ug/L	147000000	8.27	20	
alpha-BHC		20.0	22.1	ug/L	184000000	10.4	20	
beta-BHC		20.0	21.2	ug/L	74100000	6.04	20	
delta-BHC		20.0	22.6	ug/L	173000000	12.8	20	
Dieldrin		20.0	22.0	ug/L	136000000	9.91	20	
Endosulfan I		20.0	21.5	ug/L	134000000	7.43	20	
Endosulfan II		20.0	20.4	ug/L	121000000	1.76	20	
Endosulfan Sulfate		20.0	21.7	ug/L	104000000	8.60	20	
Endrin		20.0	20.6	ug/L	125000000	2.86	20	
Endrin Aldehyde		20.0	21.0	ug/L	95500000	4.82	20	
Endrin Ketone		20.0	22.1	ug/L	121000000	10.7	20	
gamma-Chlordane		20.0	21.1	ug/L	156000000	5.49	20	
gamma-BHC		20.0	21.9	ug/L	171000000	9.58	20	
Heptachlor		20.0	21.4	ug/L	162000000	6.96	20	
Heptachlor Epoxide		20.0	21.4	ug/L	152000000	7.21	20	
Methoxychlor		20.0	19.8	ug/L	55800000	1.10	20	
Toxaphene		NA		ug/L			20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008
PDF File ID: 1855352
Report generated 12/08/2010 15:15

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L10110846 Run Date: 12/01/2010 Sample ID: WG350177-02
Instrument ID: HP15 Run Time: 14:26 Method: 8081A
File ID: 15G24267.R Analyst: ECL QC Key: DOD4
Workgroup (AAB#): WG350079 Cal ID: HP15 - 27-SEP-10
Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
4,4'-DDD		20.0	21.2	ug/L	92000000	6.15	20	
4,4'-DDE		20.0	20.6	ug/L	108000000	2.93	20	
4,4'-DDT		20.0	20.2	ug/L	90700000	0.810	20	
Aldrin		20.0	20.2	ug/L	124000000	1.03	20	
alpha-Chlordane		20.0	20.4	ug/L	112000000	1.96	20	
alpha-BHC		20.0	20.2	ug/L	140000000	1.18	20	
beta-BHC		20.0	18.0	ug/L	57900000	10.1	20	
delta-BHC		20.0	20.6	ug/L	144000000	3.11	20	
Dieldrin		20.0	20.8	ug/L	114000000	4.05	20	
Endosulfan I		20.0	20.9	ug/L	97500000	4.71	20	
Endosulfan II		20.0	20.8	ug/L	96400000	4.17	20	
Endosulfan Sulfate		20.0	23.5	ug/L	84600000	17.4	20	
Endrin		20.0	19.5	ug/L	89900000	2.55	20	
Endrin Aldehyde		20.0	19.8	ug/L	70400000	1.11	20	
Endrin Ketone		20.0	23.0	ug/L	92900000	15.2	20	
gamma-Chlordane		20.0	20.7	ug/L	118000000	3.55	20	
gamma-BHC		20.0	18.7	ug/L	132000000	6.39	20	
Heptachlor		20.0	19.8	ug/L	135000000	1.21	20	
Heptachlor Epoxide		20.0	20.6	ug/L	108000000	2.98	20	
Methoxychlor		20.0	18.5	ug/L	41300000	7.28	20	
Toxaphene		NA		ug/L			20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008
PDF File ID: 1855352
Report generated 12/08/2010 15:15

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L10110846 Run Date: 12/01/2010 Sample ID: WG350178-01
Instrument ID: HP15 Run Time: 15:24 Method: 8081A
File ID: 15G24268.F Analyst: ECL QC Key: DOD4
Workgroup (AAB#): WG350079 Cal ID: HP15 - 27-SEP-10
Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Toxaphene		500	530	ug/L	2040000	6.00	20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008
PDF File ID: 1855352
Report generated 12/08/2010 15:15

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L10110846 Run Date: 12/01/2010 Sample ID: WG350178-01
Instrument ID: HP15 Run Time: 15:52 Method: 8081A
File ID: 15G24268.R Analyst: ECL QC Key: DOD4
Workgroup (AAB#): WG350079 Cal ID: HP15 - 27-SEP-10
Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Toxaphene		500	526	ug/L	1700000	5.19	20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008
PDF File ID: 1855352
Report generated 12/08/2010 15:15

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L10110846 Run Date: 12/01/2010 Sample ID: WG350177-03
Instrument ID: HP15 Run Time: 20:35 Method: 8081A
File ID: 15G24279.F Analyst: ECL QC Key: DOD4
Workgroup (AAB#): WG350079 Cal ID: HP15 - 27-SEP-10
Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
4,4'-DDD		10.0	9.89	ug/L	103000000	1.07	20	
4,4'-DDE		10.0	9.79	ug/L	125000000	2.10	20	
4,4'-DDT		10.0	8.75	ug/L	103000000	12.5	20	
Aldrin		10.0	9.14	ug/L	142000000	8.56	20	
alpha-Chlordane		10.0	9.96	ug/L	135000000	0.412	20	
alpha-BHC		10.0	10.4	ug/L	173000000	3.78	20	
beta-BHC		10.0	10.7	ug/L	74600000	6.79	20	
delta-BHC		10.0	10.7	ug/L	164000000	7.06	20	
Dieldrin		10.0	10.0	ug/L	125000000	0.367	20	
Endosulfan I		10.0	9.93	ug/L	124000000	0.654	20	
Endosulfan II		10.0	9.36	ug/L	111000000	6.39	20	
Endosulfan Sulfate		10.0	9.21	ug/L	88000000	7.94	20	
Endrin		10.0	9.63	ug/L	117000000	3.68	20	
Endrin Aldehyde		10.0	8.86	ug/L	80700000	11.4	20	
Endrin Ketone		10.0	9.52	ug/L	104000000	4.81	20	
gamma-Chlordane		10.0	9.69	ug/L	144000000	3.06	20	
gamma-BHC		10.0	10.4	ug/L	163000000	4.45	20	
Heptachlor		10.0	10.5	ug/L	160000000	5.35	20	
Heptachlor Epoxide		10.0	10.2	ug/L	144000000	1.66	20	
Methoxychlor		10.0	9.02	ug/L	50900000	9.81	20	
Toxaphene		NA		ug/L			20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008
PDF File ID: 1855352
Report generated 12/08/2010 15:15

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L10110846 Run Date: 12/01/2010 Sample ID: WG350178-02
Instrument ID: HP15 Run Time: 21:03 Method: 8081A
File ID: 15G24280.F Analyst: ECL QC Key: DOD4
Workgroup (AAB#): WG350079 Cal ID: HP15 - 27-SEP-10
Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Toxaphene		200	194	ug/L	1890000	2.84	20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008
PDF File ID: 1855352
Report generated 12/08/2010 15:15

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L10110846 Run Date: 12/01/2010 Sample ID: WG350177-03
Instrument ID: HP15 Run Time: 21:03 Method: 8081A
File ID: 15G24279.R Analyst: ECL QC Key: DOD4
Workgroup (AAB#): WG350079 Cal ID: HP15 - 27-SEP-10
Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
4,4'-DDD		10.0	9.58	ug/L	83100000	4.15	20	
4,4'-DDE		10.0	9.47	ug/L	99100000	5.35	20	
4,4'-DDT		10.0	8.55	ug/L	77000000	14.5	20	
Aldrin		10.0	9.71	ug/L	119000000	2.86	20	
alpha-Chlordane		10.0	9.66	ug/L	106000000	3.40	20	
alpha-BHC		10.0	9.66	ug/L	134000000	3.37	20	
beta-BHC		10.0	8.88	ug/L	57200000	11.2	20	
delta-BHC		10.0	9.87	ug/L	138000000	1.32	20	
Dieldrin		10.0	9.64	ug/L	105000000	3.63	20	
Endosulfan I		10.0	10.2	ug/L	95000000	2.02	20	
Endosulfan II		10.0	9.59	ug/L	88700000	4.14	20	
Endosulfan Sulfate		10.0	10.5	ug/L	75400000	4.67	20	
Endrin		10.0	9.32	ug/L	86000000	6.80	20	
Endrin Aldehyde		10.0	8.75	ug/L	62400000	12.5	20	
Endrin Ketone		10.0	9.91	ug/L	80000000	0.867	20	
gamma-Chlordane		10.0	9.79	ug/L	111000000	2.09	20	
gamma-BHC		10.0	9.02	ug/L	127000000	9.82	20	
Heptachlor		10.0	9.60	ug/L	131000000	4.02	20	
Heptachlor Epoxide		10.0	10.0	ug/L	106000000	0.459	20	
Methoxychlor		10.0	8.15	ug/L	36300000	18.5	20	
Toxaphene		NA		ug/L			20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008
PDF File ID: 1855352
Report generated 12/08/2010 15:15

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L10110846 Run Date: 12/01/2010 Sample ID: WG350178-02
Instrument ID: HP15 Run Time: 21:32 Method: 8081A
File ID: 15G24280.R Analyst: ECL QC Key: DOD4
Workgroup (AAB#): WG350079 Cal ID: HP15 - 27-SEP-10
Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Toxaphene		200	193	ug/L	1560000	3.58	20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008
PDF File ID: 1855352
Report generated 12/08/2010 15:15

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L10110846 Run Date: 12/01/2010 Sample ID: WG350177-05
Instrument ID: HP15 Run Time: 23:53 Method: 8081A
File ID: 15G24286.F Analyst: ECL QC Key: DOD4
Workgroup (AAB#): WG350079 Cal ID: HP15 - 27-SEP-10
Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
4,4'-DDD		20.0	21.2	ug/L	110000000	6.02	20	
4,4'-DDE		20.0	21.2	ug/L	135000000	5.78	20	
4,4'-DDT		20.0	19.2	ug/L	114000000	3.97	20	
Aldrin		20.0	18.6	ug/L	144000000	7.02	20	
alpha-Chlordane		20.0	20.1	ug/L	137000000	0.599	20	
alpha-BHC		20.0	21.6	ug/L	180000000	7.99	20	
beta-BHC		20.0	21.3	ug/L	74400000	6.55	20	
delta-BHC		20.0	22.3	ug/L	171000000	11.5	20	
Dieldrin		20.0	20.2	ug/L	126000000	1.10	20	
Endosulfan I		20.0	20.2	ug/L	125000000	0.891	20	
Endosulfan II		20.0	19.4	ug/L	115000000	3.21	20	
Endosulfan Sulfate		20.0	19.9	ug/L	95300000	0.309	20	
Endrin		20.0	20.4	ug/L	124000000	1.86	20	
Endrin Aldehyde		20.0	19.1	ug/L	87100000	4.44	20	
Endrin Ketone		20.0	19.8	ug/L	108000000	1.18	20	
gamma-Chlordane		20.0	20.3	ug/L	151000000	1.55	20	
gamma-BHC		20.0	21.7	ug/L	169000000	8.34	20	
Heptachlor		20.0	21.1	ug/L	160000000	5.48	20	
Heptachlor Epoxide		20.0	20.8	ug/L	148000000	3.97	20	
Methoxychlor		20.0	18.8	ug/L	53000000	6.06	20	
Toxaphene		NA		ug/L			20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008
PDF File ID: 1855352
Report generated 12/08/2010 15:15

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L10110846 Run Date: 12/02/2010 Sample ID: WG350178-03
Instrument ID: HP15 Run Time: 00:21 Method: 8081A
File ID: 15G24287.F Analyst: ECL QC Key: DOD4
Workgroup (AAB#): WG350079 Cal ID: HP15 - 27-SEP-10
Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Toxaphene		500	508	ug/L	1970000	1.60	20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008
PDF File ID: 1855352
Report generated 12/08/2010 15:15

Microbac Laboratories Inc.

ENDRIN/4,4'-DDT BREAKDOWN (BRKDWN)

Login Number:	L10110846	Run Date:	12/01/2010	Sample ID:	WG350177-01
Instrument ID:	HP15	Run Time:	13:29	Method:	8081
File ID:	15G24266.F	Analyst:	ECL	Column ID:	FRONT

DDT BREAKDOWN

Analyte	Response
4,4'-DDD	162009271
4,4'-DDE	109314072
4,4'-DDT	5729823152

DDT % BREAKDOWN: 4.52

ENDRIN BREAKDOWN

Analyte	Response
ENDRIN	6250416985
ENDRIN ALDEHYDE	130452574
ENDRIN KETONE	265639360

ENDRIN % BREAKDOWN: 5.96

* Exceeds 15% Criteria

Report Name: BRKDWN
PDF File ID: 1855349
Report generated 12/08/2010 15:15

Microbac Laboratories Inc.

ENDRIN/4,4'-DDT BREAKDOWN (BRKDWN)

Login Number:	L10110846	Run Date:	12/01/2010	Sample ID:	WG350177-01
Instrument ID:	HP15	Run Time:	13:58	Method:	8081
File ID:	15G24266.R	Analyst:	ECL	Column ID:	REAR

DDT BREAKDOWN

Analyte	Response
4,4'-DDD	105873871
4,4'-DDE	84770634
4,4'-DDT	4195406987

DDT % BREAKDOWN: 4.35

ENDRIN BREAKDOWN

Analyte	Response
ENDRIN	4203215796
ENDRIN ALDEHYDE	127777896
ENDRIN KETONE	243481882

ENDRIN % BREAKDOWN: 8.12

* Exceeds 15% Criteria

Report Name: BRKDWN
PDF File ID: 1855349
Report generated 12/08/2010 15:15

Microbac Laboratories Inc.

ENDRIN/4,4'-DDT BREAKDOWN (BRKDWN)

Login Number:	L10110846	Run Date:	12/01/2010	Sample ID:	WG350177-04
Instrument ID:	HP15	Run Time:	23:25	Method:	8081
File ID:	15G24285.F	Analyst:	ECL	Column ID:	FRONT

DDT BREAKDOWN

Analyte	Response
4,4'-DDD	108464509
4,4'-DDE	90794645
4,4'-DDT	5134381379

DDT % BREAKDOWN: 3.74

ENDRIN BREAKDOWN

Analyte	Response
ENDRIN	5836218448
ENDRIN ALDEHYDE	0
ENDRIN KETONE	141980055

ENDRIN % BREAKDOWN: 2.37

* Exceeds 15% Criteria

Report Name: BRKDWN
PDF File ID: 1855349
Report generated 12/08/2010 15:15

Microbac Laboratories Inc.

ENDRIN/4,4'-DDT BREAKDOWN (BRKDWN)

Login Number:	L10110846	Run Date:	12/01/2010	Sample ID:	WG350177-04
Instrument ID:	HP15	Run Time:	23:53	Method:	8081
File ID:	15G24285.R	Analyst:	ECL	Column ID:	REAR

DDT BREAKDOWN

Analyte	Response
4,4'-DDD	74898549
4,4'-DDE	70129075
4,4'-DDT	3728824845

DDT % BREAKDOWN: 3.74

ENDRIN BREAKDOWN

Analyte	Response
ENDRIN	4095911798
ENDRIN ALDEHYDE	46612275
ENDRIN KETONE	133722842

ENDRIN % BREAKDOWN: 4.22

* Exceeds 15% Criteria

Report Name: BRKDWN
PDF File ID: 1855349
Report generated 12/08/2010 15:15

2.1.1.3 Sample Data

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\120110\
Data File : 15G24276.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2010 19:10 (#1); 01 Dec 2010 19:39 (#2)
Operator : ECL
Sample : L10110846-01
Misc : 7,1 SOIL
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 02 08:50:39 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 02 08:47:10 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

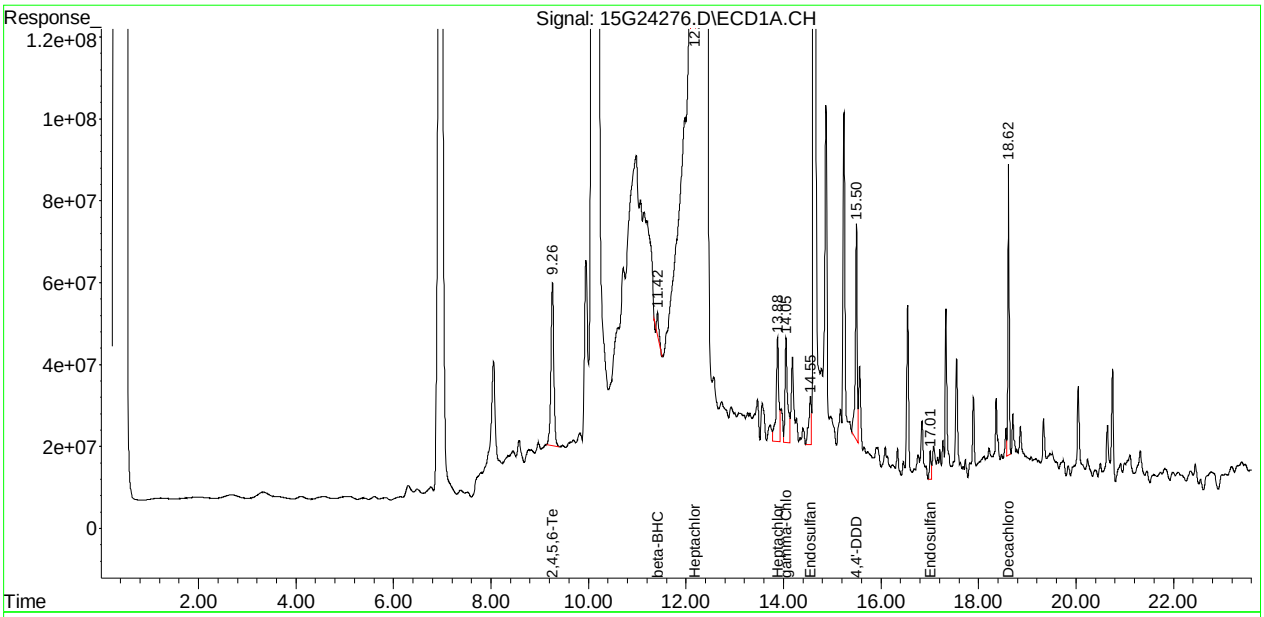
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L	
	System Monitoring Compounds							
1) S	2,4,5,6-Tetrachl	9.26	9.17	1646.9E6	1192.4E6	14.481	12.493	
	Spiked Amount	20.000	Range 29 - 133		Recovery =	72.41%	62.47%	
22) S	Decachlorobiphen	18.62	18.89	1320.1E6	1207.7E6	16.474	21.972	#
	Spiked Amount	20.000	Range 30 - 173		Recovery =	82.37%	109.86%	
	Target Compounds							
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.	
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.	
4)	beta-BHC	11.42	0.00	142.1E6	0	2.035	N.D.	#
5)	Heptachlor	12.17	12.11f	125.7E6	85129316	0.830	0.624	
6)	delta-BHC	0.00	12.04f	0	45907386	N.D.	0.328	#
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.	
8)	Heptachlor Epoxi	13.88f	0.00	952.0E6	0	6.707	N.D.	#
9)	gamma-Chlordane	14.05f	14.13	927.7E6	170.0E6	6.258	1.495	#
10)	alpha-Chlordane	0.00	14.37	0	240.4E6	N.D.	2.188	#
11)	Endosulfan I	14.55	0.00	414.8E6	0	3.335	N.D.	#
12)	4,4'-DDE	0.00	14.67f	0	194.0E6	N.D.	1.854	#
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.	
14)	Endrin	0.00	0.00	0	0	N.D.	N.D.	
15)	4,4'-DDD	15.50	0.00	1457.2E6	0	14.032	N.D.	#
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.	
17)	4,4'-DDT	0.00	16.17f	0	211.8E6	N.D.	2.353	#
18)	Endrin Aldehyde	0.00	16.40f	0	68292185	N.D.	0.959	#
19)	Endosulfan Sulfa	17.01	16.77	178.2E6	75201251	1.864	1.043	#
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.	
21)	Endrin Ketone	0.00	17.51f	0	84327802	N.D.	1.045	#

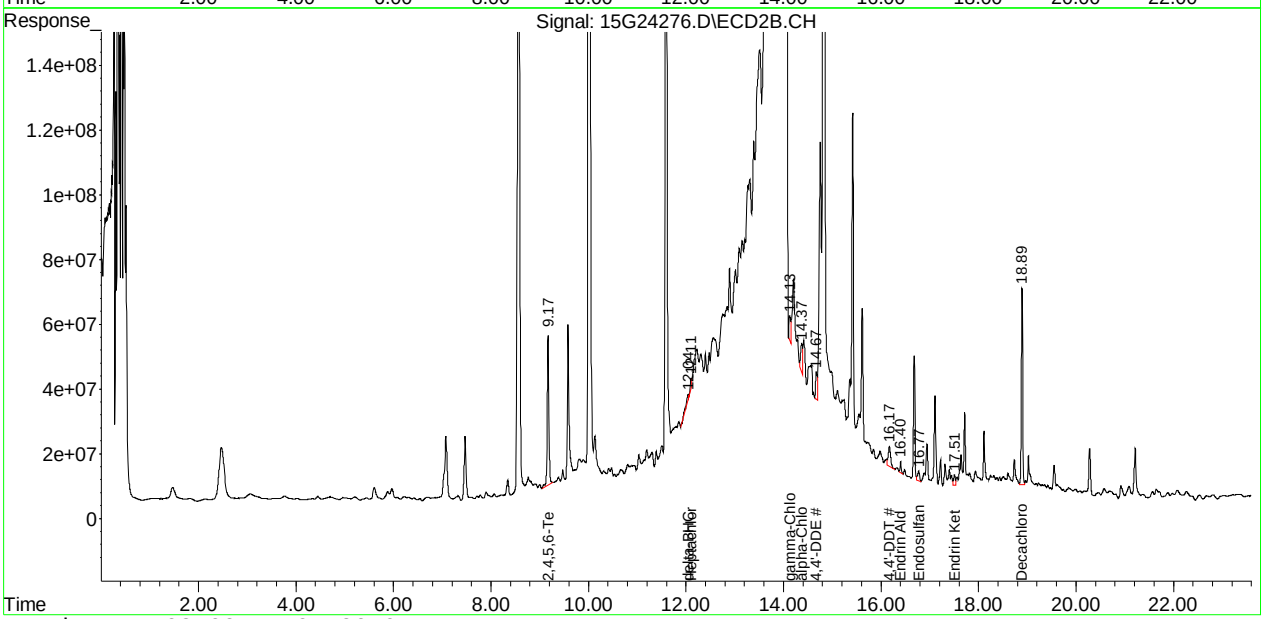
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\120110\
Data File : 15G24276.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2010 19:10 (#1); 01 Dec 2010 19:39 (#2)
Operator : ECL
Sample : L10110846-01
Misc : 7,1 SOIL
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 02 08:50:39 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 02 08:47:10 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



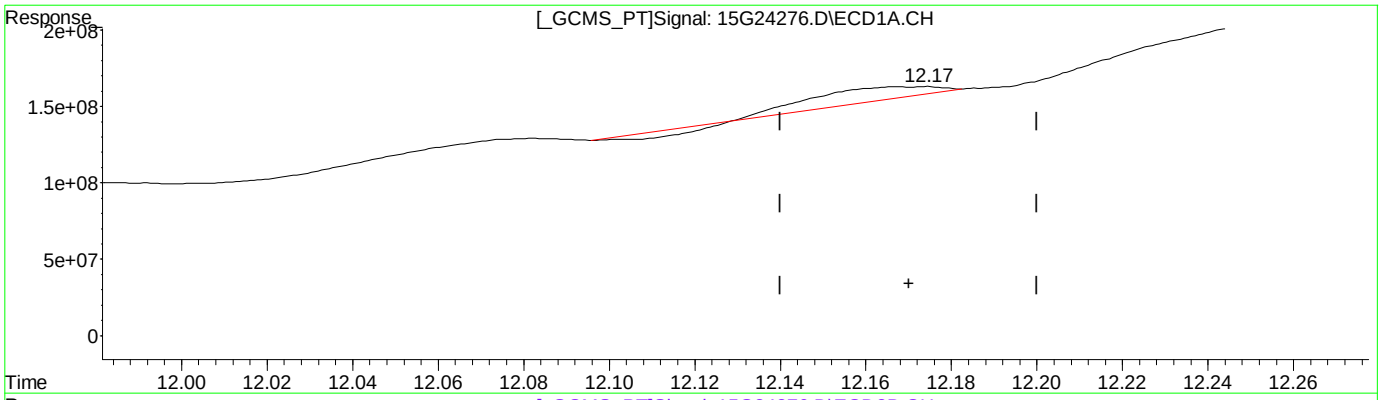


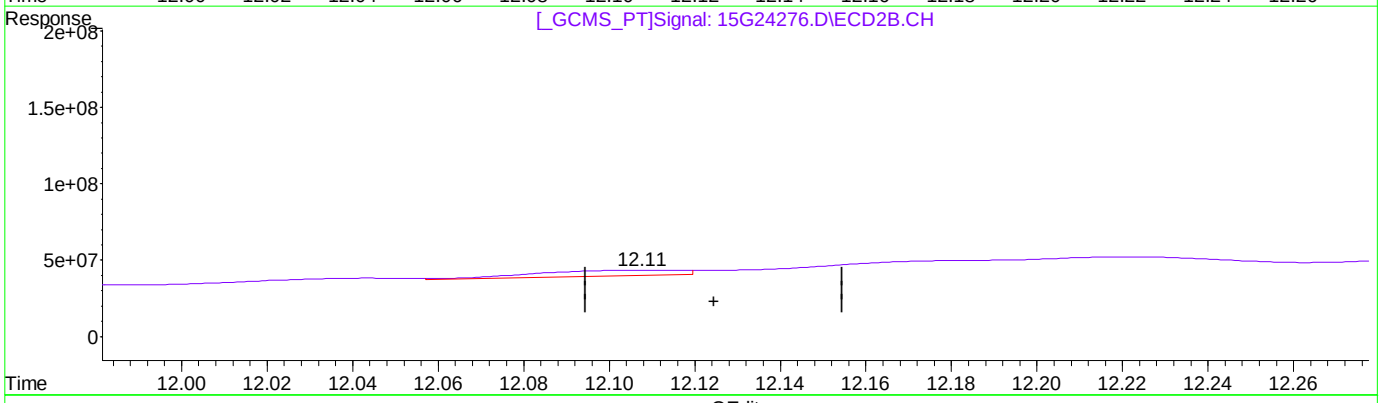
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\120110\
Data File : 15G24276.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Dec 2010 19:10 (#1); 01 Dec 2010 19:39 (#2)
Operator : ECL
Sample   : L10110846-01
Misc   : 7,1 SOIL
ALS Vial : 11   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 02 08:50:39 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 02 08:47:10 2010
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :





QEdit

(5) Heptachlor

12.17min 0.830UG/L

response 125742866

(5) Heptachlor #2

12.11min 0.624UG/L

response 85129316

(+) = Expected Retention Time

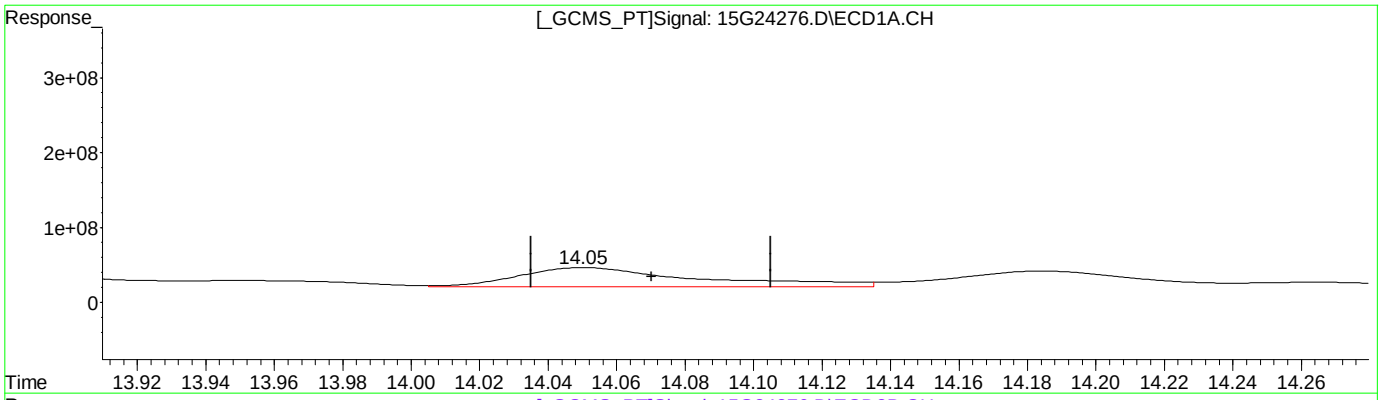
8081.M Thu Dec 02 11:30:22 2010 Page: 1

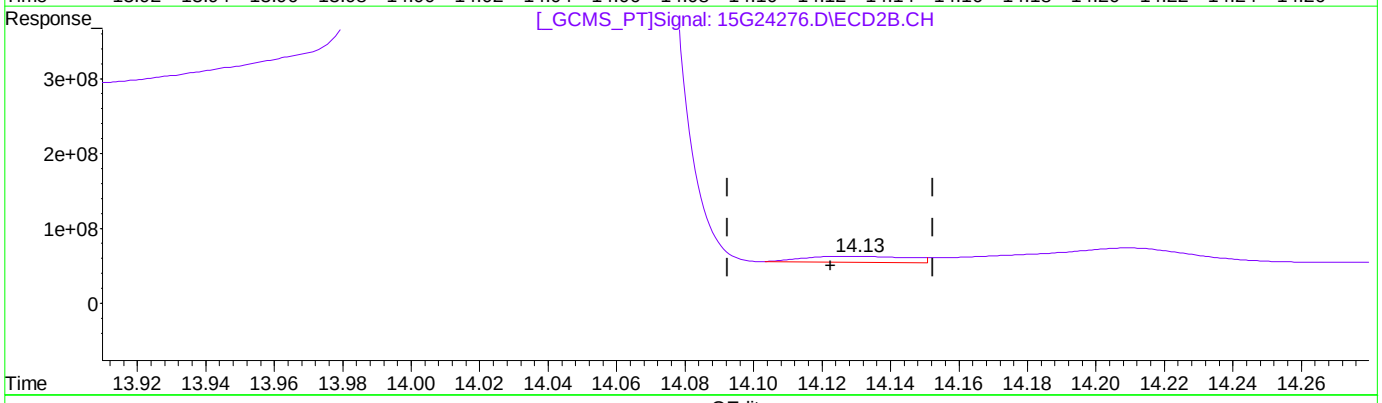
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\120110\
Data File : 15G24276.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Dec 2010 19:10 (#1); 01 Dec 2010 19:39 (#2)
Operator : ECL
Sample   : L10110846-01
Misc   : 7,1 SOIL
ALS Vial : 11   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 02 08:50:39 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 02 08:47:10 2010
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :





QEdit

(9) gamma-Chlordane

14.05min 6.258UG/L

response 927682243

(9) gamma-Chlordane #2

14.13min 1.495UG/L

response 170023812

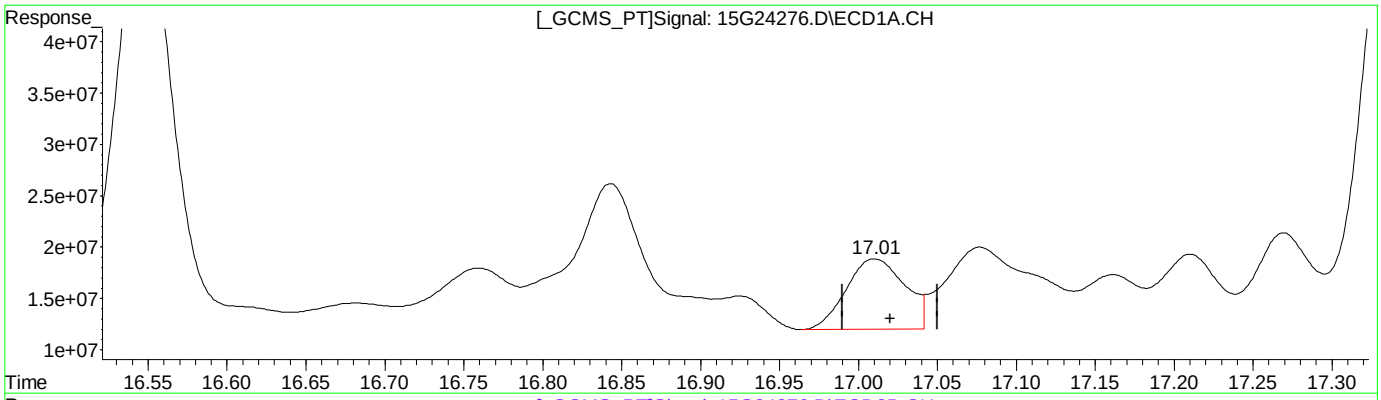
(+) = Expected Retention Time

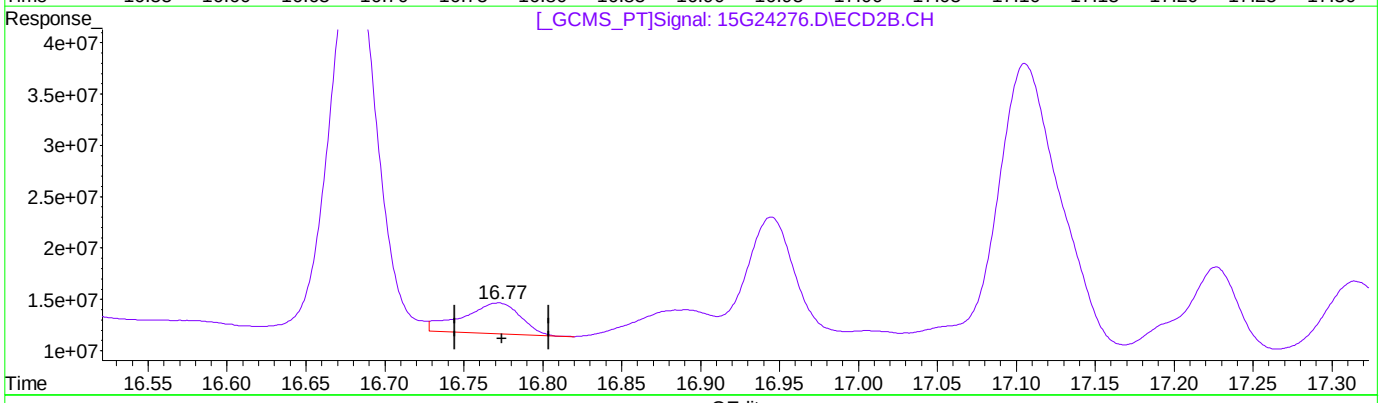
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\120110\
Data File : 15G24276.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Dec 2010 19:10 (#1); 01 Dec 2010 19:39 (#2)
Operator : ECL
Sample   : L10110846-01
Misc   : 7,1 SOIL
ALS Vial : 11   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 02 08:50:39 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 02 08:47:10 2010
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :





QEdit

(19) Endosulfan Sulfate

17.01min 1.864UG/L

response 178202751

(19) Endosulfan Sulfate #2

16.77min 1.043UG/L

response 75201251

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\120110\
Data File : 15G24277.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2010 19:39 (#1); 01 Dec 2010 20:07 (#2)
Operator : ECL
Sample : L10110846-02
Misc : 7,1 SOIL
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 02 08:50:54 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 02 08:47:10 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L	
	System Monitoring Compounds							
1) S	2,4,5,6-Tetrachl	9.26	9.17	1649.5E6	1156.8E6	14.504	12.120	
	Spiked Amount	20.000	Range 29 - 133		Recovery =	72.52%	60.60%	
22) S	Decachlorobiphen	18.62	18.89	1273.3E6	941.9E6	15.890	16.895	
	Spiked Amount	20.000	Range 30 - 173		Recovery =	79.45%	84.47%	
	Target Compounds							
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.	
3)	gamma-BHC	11.21	0.00	2808.7E6	0	18.016	N.D.	#
4)	beta-BHC	11.41	0.00	613.0E6	0	8.777	N.D.	#
5)	Heptachlor	12.16	0.00	488.4E6	0	3.223	N.D.	#
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.	
7)	Aldrin	0.00	12.76f	0	50686487	N.D.	0.413	#
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.	
9)	gamma-Chlordane	14.05f	0.00	236.0E6	0	1.592	N.D.	#
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.	
11)	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.	
12)	4,4'-DDE	0.00	14.68	0	634.3E6	N.D.	6.059	#
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.	
14)	Endrin	0.00	0.00	0	0	N.D.	N.D.	
15)	4,4'-DDD	0.00	0.00	0	0	N.D.	N.D.	
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.	
17)	4,4'-DDT	0.00	16.19	0	83216959	N.D.	0.925	#
18)	Endrin Aldehyde	0.00	16.40f	0	81358615	N.D.	1.142	#
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.	
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.	
21)	Endrin Ketone	0.00	0.00	0	0	N.D.	N.D.	

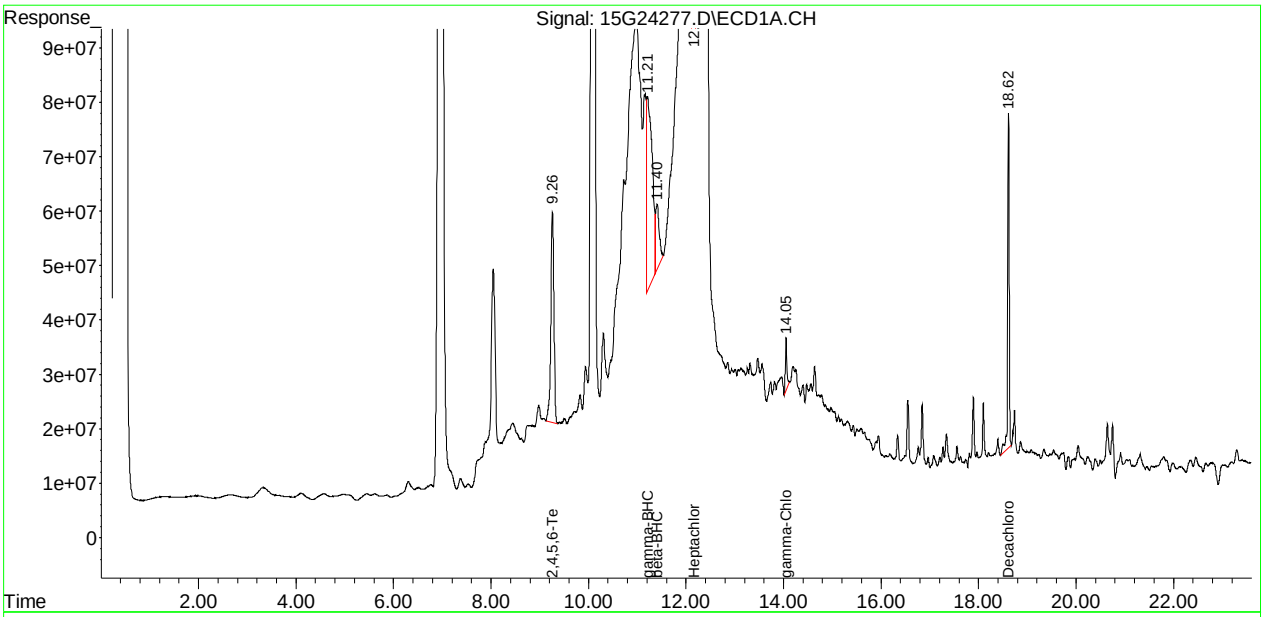
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

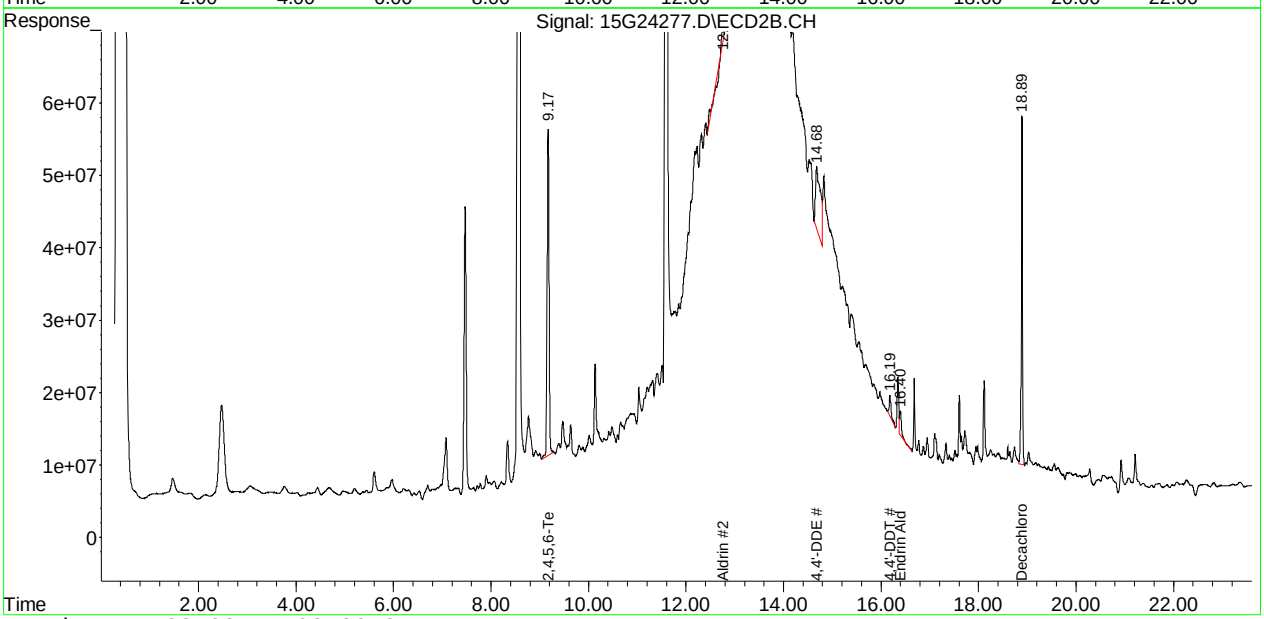
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\120110\
Data File : 15G24277.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2010 19:39 (#1); 01 Dec 2010 20:07 (#2)
Operator : ECL
Sample : L10110846-02
Misc : 7,1 SOIL
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 02 08:50:54 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 02 08:47:10 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Data Path : C:\MSDCHEM\1\DATA\120110\
Data File : 15G24278.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2010 20:07 (#1); 01 Dec 2010 20:35 (#2)
Operator : ECL
Sample : L10110846-03
Misc : 7,1 SOIL
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 02 08:51:03 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 02 08:47:10 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

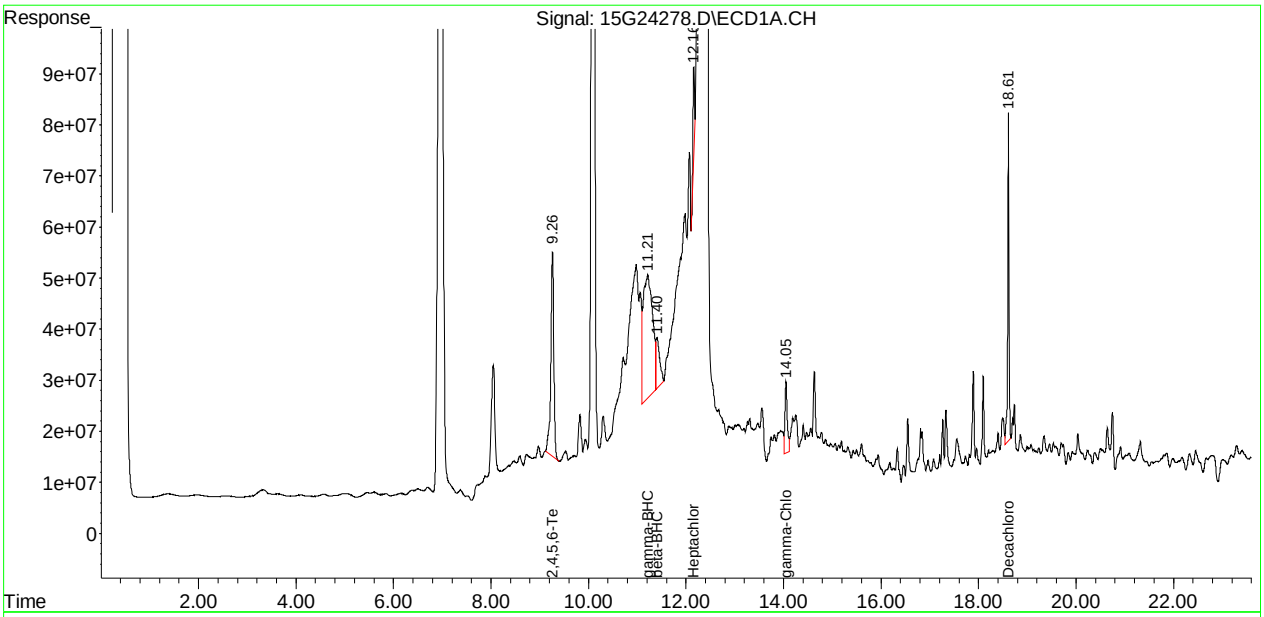
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L	
	System Monitoring Compounds							
1) S	2,4,5,6-Tetrachl	9.26	9.17	1730.8E6	1209.0E6	15.218	12.667	
	Spiked Amount	20.000	Range 30 - 132		Recovery =	76.09%	63.33%	
22) S	Decachlorobiphen	18.62	18.89	1321.9E6	988.7E6	16.496	17.788	
	Spiked Amount	20.000	Range 36 - 144		Recovery =	82.48%	88.94%	
	Target Compounds							
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.	
3)	gamma-BHC	11.21	0.00	3170.9E6	0	20.339	N.D.	#
4)	beta-BHC	11.40f	0.00	530.4E6	0	7.594	N.D.	#
5)	Heptachlor	12.16	0.00	342.5E6	0	2.260	N.D.	#
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.	
7)	Aldrin	0.00	12.74	0	203.1E6	N.D.	1.656	#
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.	
9)	gamma-Chlordane	14.05f	0.00	472.6E6	0	3.188	N.D.	#
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.	
11)	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.	
12)	4,4'-DDE	0.00	14.67	0	44342124	N.D.	0.424	#
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.	
14)	Endrin	0.00	0.00	0	0	N.D.	N.D.	
15)	4,4'-DDD	0.00	0.00	0	0	N.D.	N.D.	
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.	
17)	4,4'-DDT	0.00	16.18	0	349.8E6	N.D.	3.887	#
18)	Endrin Aldehyde	0.00	16.40f	0	168.2E6	N.D.	2.362	#
19)	Endosulfan Sulfa	0.00	16.77	0	64319031	N.D.	0.892	#
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.	
21)	Endrin Ketone	0.00	17.46f	0	42327620	N.D.	0.525	#

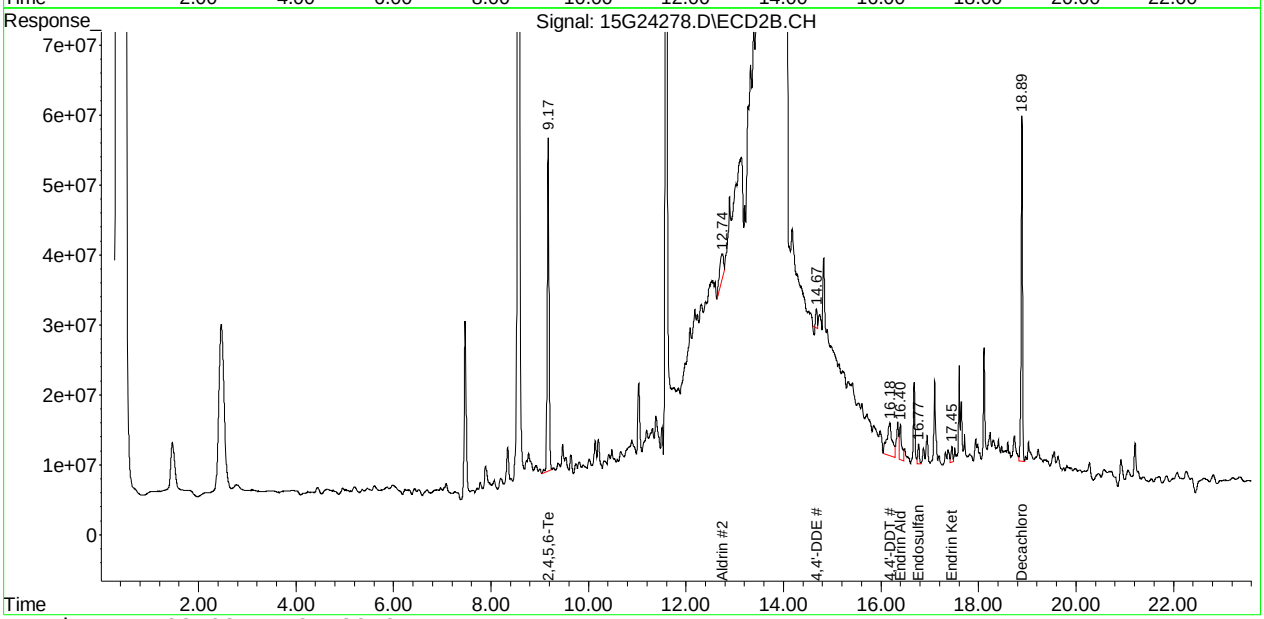
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\120110\
Data File : 15G24278.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2010 20:07 (#1); 01 Dec 2010 20:35 (#2)
Operator : ECL
Sample : L10110846-03
Misc : 7,1 SOIL
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 02 08:51:03 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 02 08:47:10 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Data Path : C:\MSDCHEM\1\DATA\120110\
Data File : 15G24281.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2010 21:32 (#1); 01 Dec 2010 22:00 (#2)
Operator : ECL
Sample : L10110846-04 REF
Misc : 7,1 SOIL
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 02 08:51:16 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 02 08:47:10 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L	
	System Monitoring Compounds							
1) S	2,4,5,6-Tetrachl	9.26	9.17	1804.2E6	1310.4E6	15.864	13.729	
	Spiked Amount	20.000	Range 29 - 133		Recovery =	79.32%	68.64%	
22) S	Decachlorobiphen	18.62	18.89	1067.4E6	933.0E6	13.320	16.726	#
	Spiked Amount	20.000	Range 30 - 173		Recovery =	66.60%	83.63%	
	Target Compounds							
2)	alpha-BHC	0.00	10.54	0	30887337	N.D.	0.223	#
3)	gamma-BHC	11.25f	0.00	16749.0E6	0	107.434	N.D.	#
4)	beta-BHC	11.42	11.44	8992.5E6	150.1E6	128.757	2.331	#
5)	Heptachlor	0.00	0.00	0	0	N.D.	N.D.	
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.	
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.	
8)	Heptachlor Epoxi	13.88f	0.00	495.5E6	0	3.491	N.D.	#
9)	gamma-Chlordane	14.06	0.00	366.3E6	0	2.471	N.D.	#
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.	
11)	Endosulfan I	14.55	0.00	188.9E6	0	1.519	N.D.	#
12)	4,4'-DDE	0.00	14.66f	0	275.9E6	N.D.	2.636	#
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.	
14)	Endrin	0.00	0.00	0	0	N.D.	N.D.	
15)	4,4'-DDD	15.50	0.00	445.0E6	0	4.285	N.D.	#
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.	
17)	4,4'-DDT	0.00	16.18	0	104.7E6	N.D.	1.163	#
18)	Endrin Aldehyde	0.00	16.40f	0	48061104	N.D.	0.675	#
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.	
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.	
21)	Endrin Ketone	0.00	0.00	0	0	N.D.	N.D.	

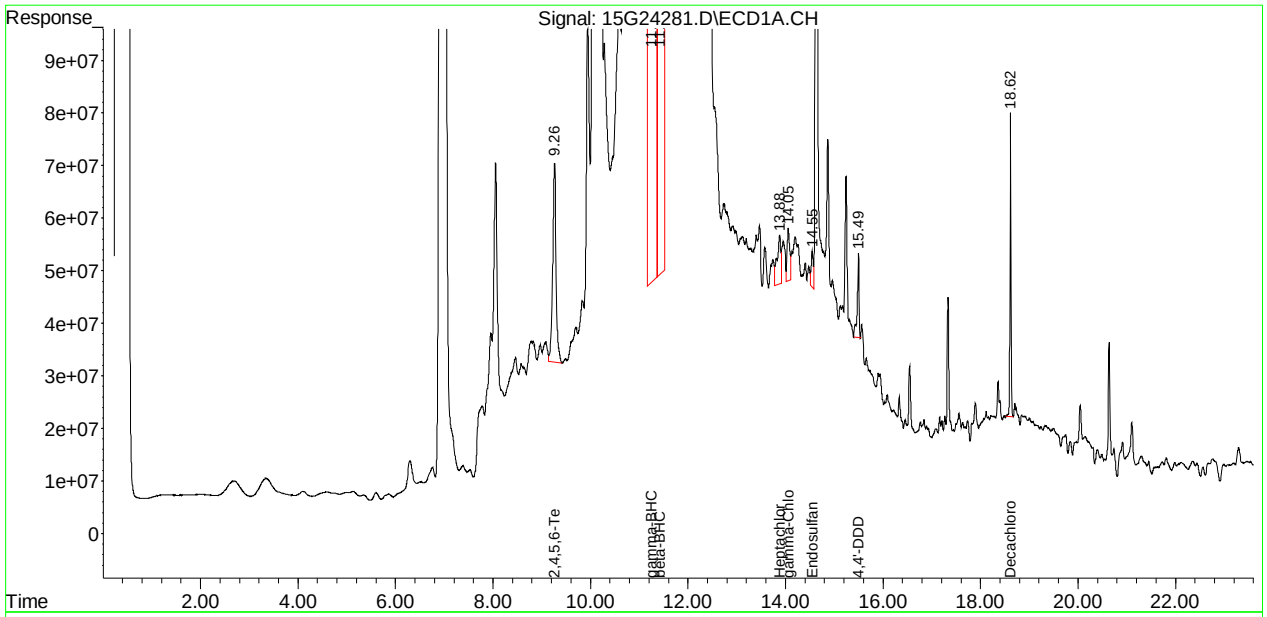
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

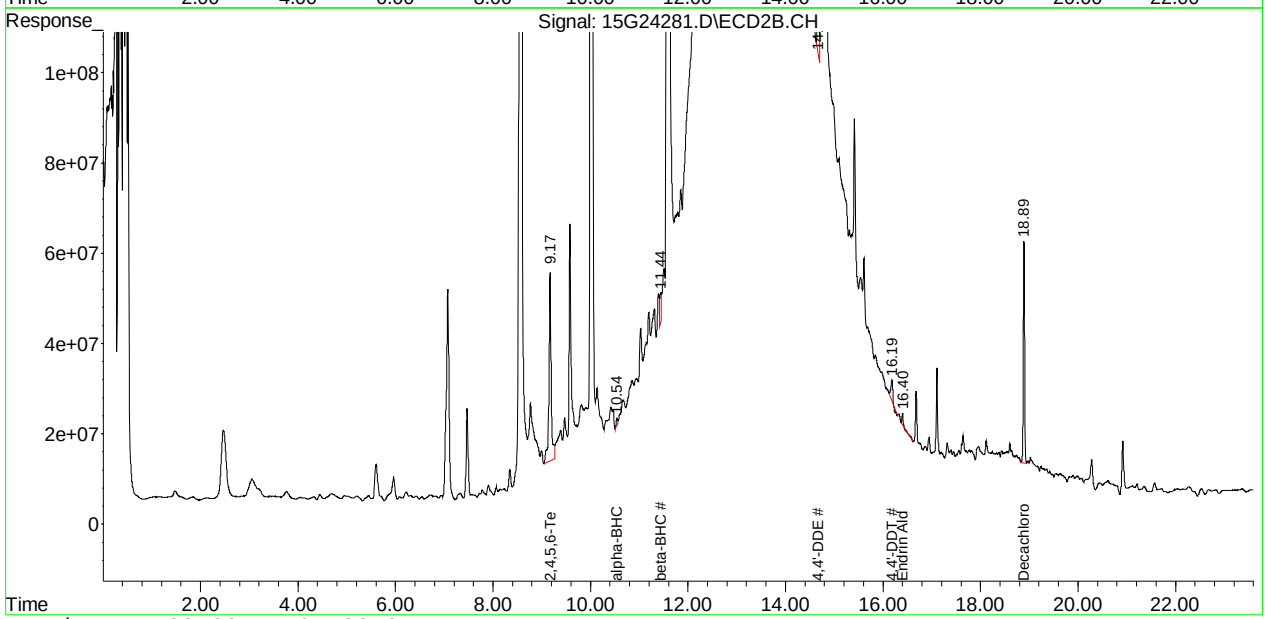
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\120110\
Data File : 15G24281.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2010 21:32 (#1); 01 Dec 2010 22:00 (#2)
Operator : ECL
Sample : L10110846-04 REF
Misc : 7,1 SOIL
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 02 08:51:16 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 02 08:47:10 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



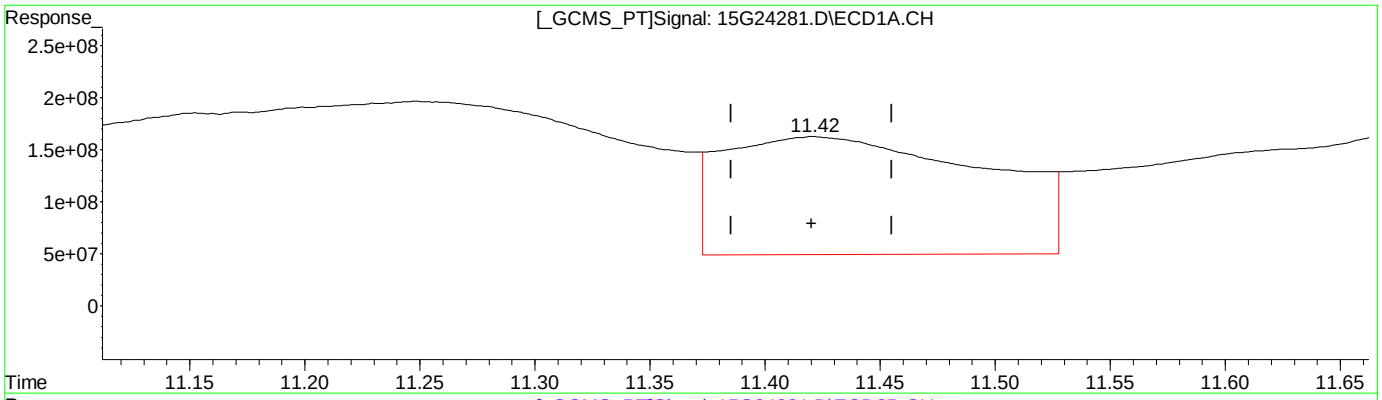


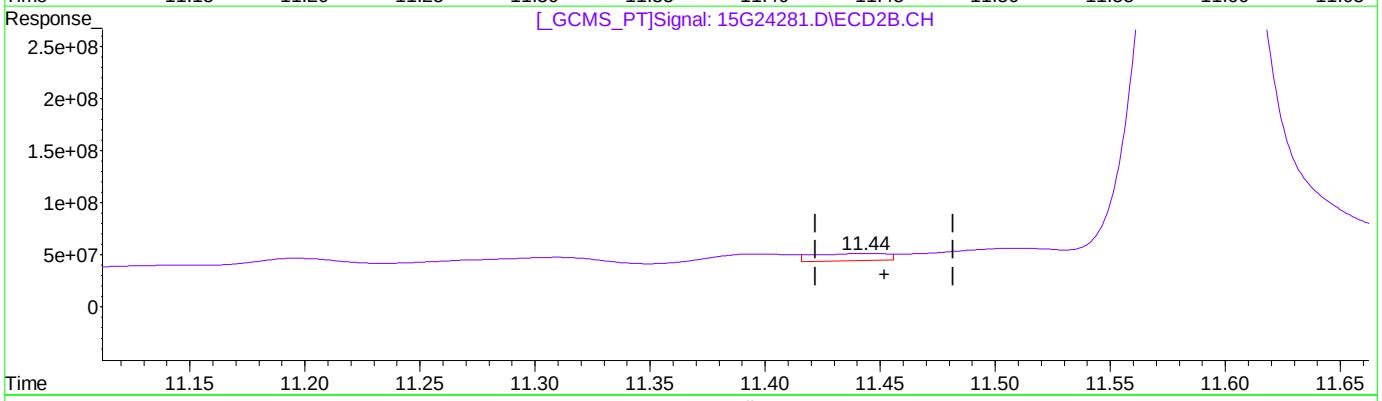
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\120110\
Data File : 15G24281.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Dec 2010 21:32 (#1); 01 Dec 2010 22:00 (#2)
Operator : ECL
Sample   : L10110846-04 REF
Misc   : 7,1 SOIL
ALS Vial : 16   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 02 08:51:16 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 02 08:47:10 2010
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :





QEdit

(4) beta-BHC

11.42min 128.757UG/L

response 8992462383

(4) beta-BHC #2

11.44min 2.331UG/L

response 150090947

(+) = Expected Retention Time

2.1.1.4 Standards Data

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23702.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 19:24 (#1); 27 Sep 2010 19:52 (#2)
Operator : ECL
Sample : WG343902-01 PEST ICAL 200 PPB
Misc : 1,1 STD40207
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:16:49 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:16:47 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.28	9.18	22953.6E6	17680.4E6	205.120	180.388
	Spiked Amount	20.000	Range 30 - 132		Recovery =	1025.60%#	901.94%#
22) S	Decachlorobiphen	18.63	18.90	13999.5E6	10537.1E6	176.954	185.819
	Spiked Amount	20.000	Range 36 - 144		Recovery =	884.77%#	929.09%#
	Target Compounds						
2)	alpha-BHC	10.57	10.54	36594.4E6	28042.1E6	220.668	177.611
3)	gamma-BHC	11.24	11.27	33131.4E6	27405.0E6	198.474	186.979
4)	beta-BHC	11.44	11.46	13625.4E6	11793.4E6	170.776	181.999
5)	Heptachlor	12.19	12.13	27604.8E6	23694.1E6	162.180	177.500
6)	delta-BHC	11.78	12.02	33542.1E6	27983.5E6	189.902	195.270
7)	Aldrin	12.76	12.74	29991.5E6	22416.3E6	197.477	183.947
8)	Heptachlor Epoxi	13.87	13.79	24925.4E6	18364.1E6	179.704	177.698
9)	gamma-Chlordane	14.09	14.13	28416.2E6	21552.7E6	198.823	187.984
10)	alpha-Chlordane	14.33	14.39	26284.4E6	20399.6E6	197.851	184.963
11)	Endosulfan I	14.56	14.48	22146.0E6	15964.4E6	182.877	171.530
12)	4,4'-DDE	14.48	14.69	25881.1E6	19941.0E6	204.443	191.427
13)	Dieldrin	14.98	14.96	22624.1E6	19765.5E6	186.075	181.731
14)	Endrin	15.37	15.48	22639.0E6	16634.2E6	191.452	186.125
15)	4,4'-DDD	15.50	15.69	21194.2E6	16614.0E6	201.499	189.629
16)	Endosulfan II	15.75	15.85	20609.7E6	16141.1E6	177.177	173.997
17)	4,4'-DDT	15.96	16.19	22560.8E6	17325.4E6	193.873	200.465
18)	Endrin Aldehyde	16.41	16.38	15979.0E6	11769.2E6	175.685	159.653
19)	Endosulfan Sulfa	17.04	16.78	17294.0E6	13469.4E6	181.609	168.226
20)	Methoxychlor	16.70	17.17	9867.6E6	7439.0E6	181.362	181.556
21)	Endrin Ketone	17.41	17.49	19622.2E6	14657.1E6	182.462	173.823

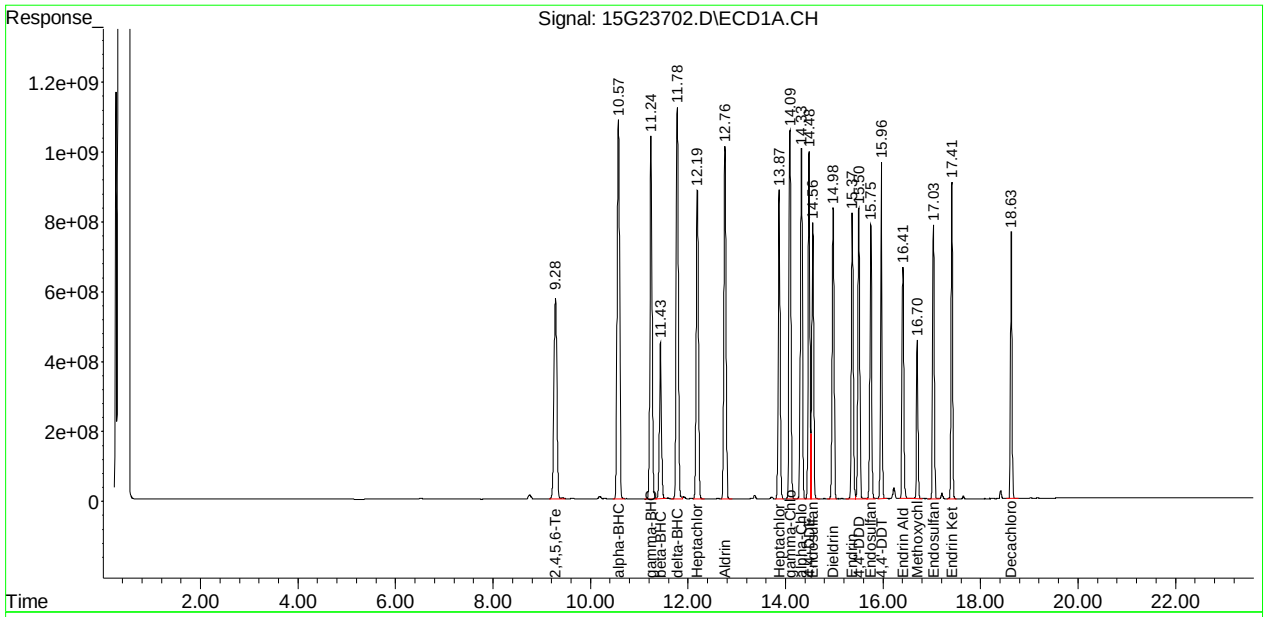
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23702.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 19:24 (#1); 27 Sep 2010 19:52 (#2)
Operator : ECL
Sample : WG343902-01 PEST ICAL 200 PPB
Misc : 1,1 STD40207
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:16:49 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:16:47 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23703.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 19:52 (#1); 27 Sep 2010 20:21 (#2)
Operator : ECL
Sample : WG343902-02 PEST ICAL 100 PPB
Misc : 1,1 STD40207
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:17:05 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:17:03 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.28	9.18	11302.6E6	9043.9E6	101.075	92.546
	Spiked Amount	20.000	Range 30 - 132		Recovery =	505.38%#	462.73%#
22) S	Decachlorobiphen	18.63	18.90	7016.8E6	5265.7E6	88.754	92.324
	Spiked Amount	20.000	Range 36 - 144		Recovery =	443.77%#	461.62%#
	Target Compounds						
2)	alpha-BHC	10.57	10.54	18039.0E6	14273.4E6	108.889	92.702
3)	gamma-BHC	11.24	11.28	16381.4E6	14076.6E6	100.235	96.738
4)	beta-BHC	11.43	11.46	6743.3E6	6001.0E6	86.724	92.822
5)	Heptachlor	12.19	12.13	14584.5E6	12630.2E6	87.752	94.390
6)	delta-BHC	11.78	12.02	16650.9E6	14214.4E6	96.931	99.626
7)	Aldrin	12.76	12.74	15543.1E6	11866.1E6	102.395	97.377
8)	Heptachlor Epoxi	13.87	13.79	13184.5E6	9636.5E6	94.918	93.883
9)	gamma-Chlordane	14.09	14.13	14316.4E6	11044.0E6	100.324	96.523
10)	alpha-Chlordane	14.33	14.39	13449.7E6	10447.9E6	101.446	94.892
11)	Endosulfan I	14.56	14.48	11749.3E6	8119.2E6	96.985	88.982
12)	4,4'-DDE	14.48	14.69	13215.4E6	10327.5E6	104.623	99.314
13)	Dieldrin	14.98	14.96	12613.3E6	10387.0E6	103.939	95.611
14)	Endrin	15.37	15.48	11852.4E6	8456.0E6	100.096	95.522
15)	4,4'-DDD	15.50	15.69	10716.1E6	8525.2E6	102.346	97.630
16)	Endosulfan II	15.75	15.85	10742.1E6	8460.9E6	92.339	91.391
17)	4,4'-DDT	15.96	16.19	11516.9E6	8864.5E6	98.919	102.328
18)	Endrin Aldehyde	16.41	16.38	8333.5E6	5990.5E6	91.646	82.420
19)	Endosulfan Sulfa	17.03	16.78	8739.2E6	6905.6E6	92.329	87.296
20)	Methoxychlor	16.70	17.17	5145.3E6	3827.7E6	94.192	92.990
21)	Endrin Ketone	17.41	17.49	10067.2E6	7608.1E6	94.069	91.014

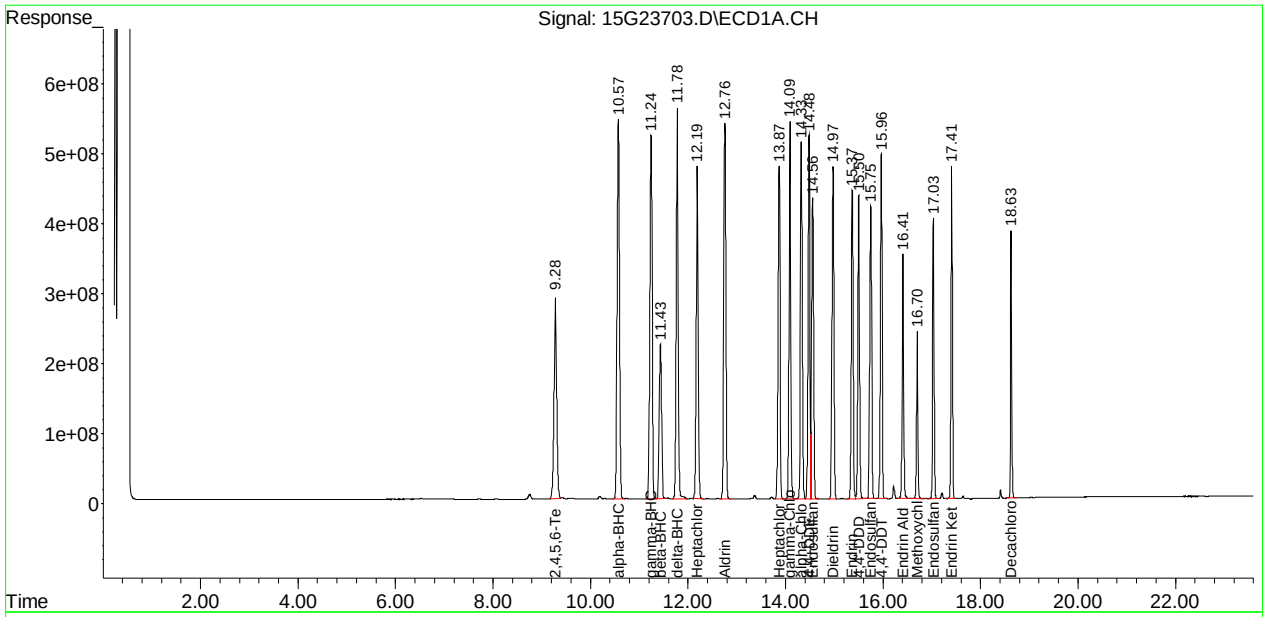
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23703.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 19:52 (#1); 27 Sep 2010 20:21 (#2)
Operator : ECL
Sample : WG343902-02 PEST ICAL 100 PPB
Misc : 1,1 STD40207
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:17:05 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:17:03 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23704.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 20:21 (#1); 27 Sep 2010 20:49 (#2)
Operator : ECL
Sample : WG343902-03 PEST ICAL 20 PPB
Misc : 1,1 STD40207
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:17:24 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:17:22 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

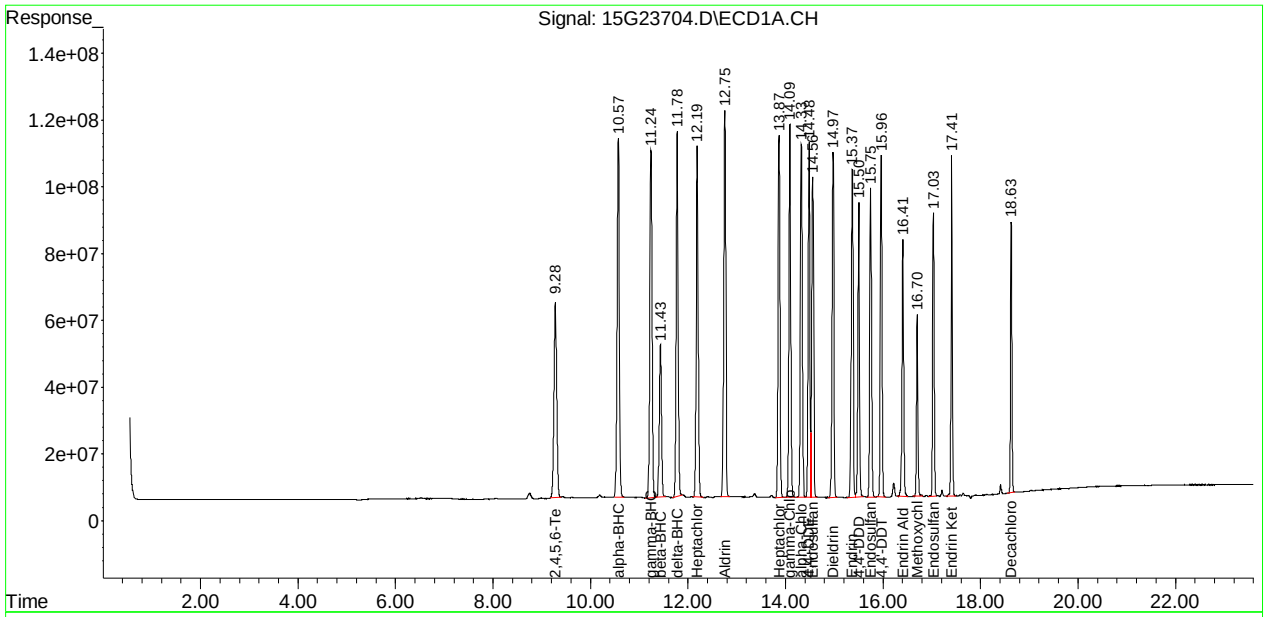
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.28	9.18	2307.2E6	1903.9E6	20.561	19.608
	Spiked Amount	20.000	Range 30 - 132		Recovery =	102.80%	98.04%
22) S	Decachlorobiphen	18.63	18.90	1530.5E6	1142.7E6	19.316	19.837
	Spiked Amount	20.000	Range 36 - 144		Recovery =	96.58%	99.19%
	Target Compounds						
2)	alpha-BHC	10.57	10.54	3487.0E6	2879.7E6	20.995	19.314
3)	gamma-BHC	11.24	11.28	3232.3E6	2902.9E6	20.177	20.176
4)	beta-BHC	11.43	11.46	1403.3E6	1277.6E6	18.534	19.873
5)	Heptachlor	12.19	12.13	3140.8E6	2793.6E6	19.339	20.861
6)	delta-BHC	11.78	12.02	3187.2E6	2897.2E6	19.134	20.458
7)	Aldrin	12.76	12.74	3238.4E6	2532.3E6	21.254	20.833
8)	Heptachlor Epoxi	13.87	13.79	2905.9E6	2179.9E6	20.834	21.359
9)	gamma-Chlordane	14.09	14.13	2937.3E6	2308.3E6	20.510	20.252
10)	alpha-Chlordane	14.33	14.39	2780.4E6	2188.6E6	20.897	19.971
11)	Endosulfan I	14.56	14.48	2578.3E6	1924.8E6	21.188	21.300
12)	4,4'-DDE	14.48	14.69	2666.9E6	2149.5E6	21.077	20.722
13)	Dieldrin	14.97	14.96	2693.8E6	2240.6E6	22.074	20.685
14)	Endrin	15.37	15.48	2536.2E6	1924.5E6	21.299	21.692
15)	4,4'-DDD	15.50	15.69	2169.1E6	1778.0E6	20.772	20.459
16)	Endosulfan II	15.75	15.85	2345.9E6	1867.2E6	20.111	20.224
17)	4,4'-DDT	15.96	16.19	2349.2E6	1839.4E6	20.074	21.107
18)	Endrin Aldehyde	16.41	16.38	1852.6E6	1414.0E6	20.309	19.575
19)	Endosulfan Sulfa	17.03	16.78	1846.4E6	1462.6E6	19.612	18.818
20)	Methoxychlor	16.70	17.17	1167.8E6	862.7E6	21.109	20.723
21)	Endrin Ketone	17.41	17.49	2165.3E6	1641.6E6	20.268	19.813

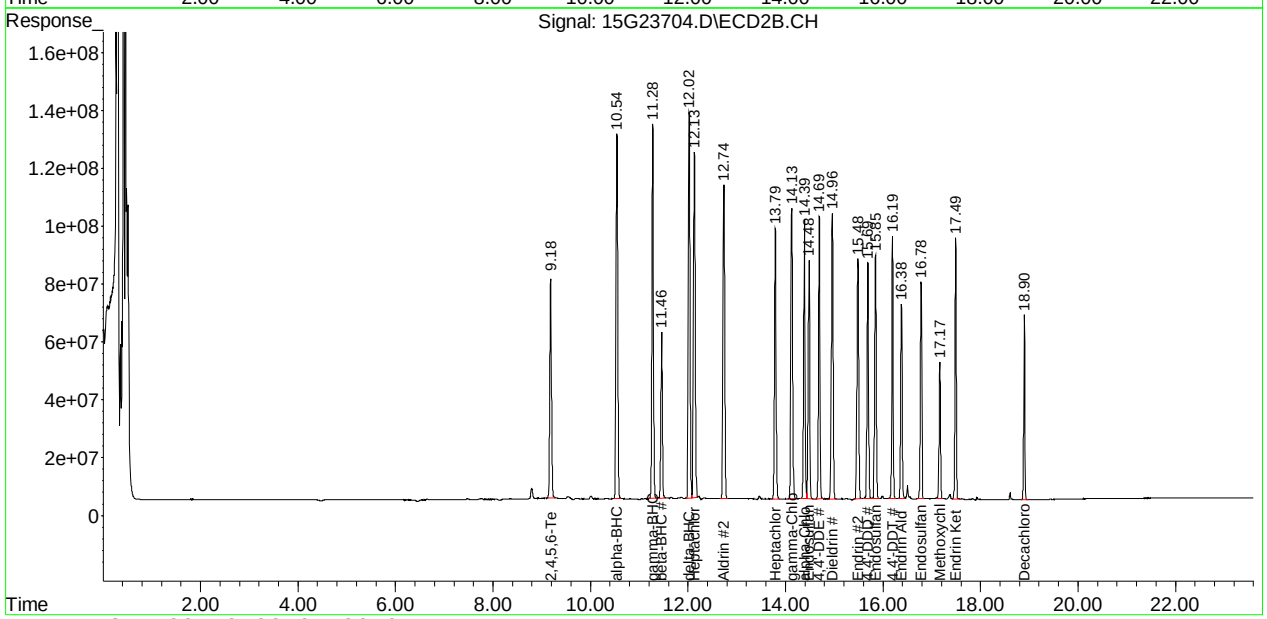
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23704.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 20:21 (#1); 27 Sep 2010 20:49 (#2)
Operator : ECL
Sample : WG343902-03 PEST ICAL 20 PPB
Misc : 1,1 STD40207
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:17:24 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:17:22 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23705.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 20:49 (#1); 27 Sep 2010 21:18 (#2)
Operator : ECL
Sample : WG343902-04 PEST ICAL 10 PPB
Misc : 1,1 STD40207
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:17:40 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:17:38 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

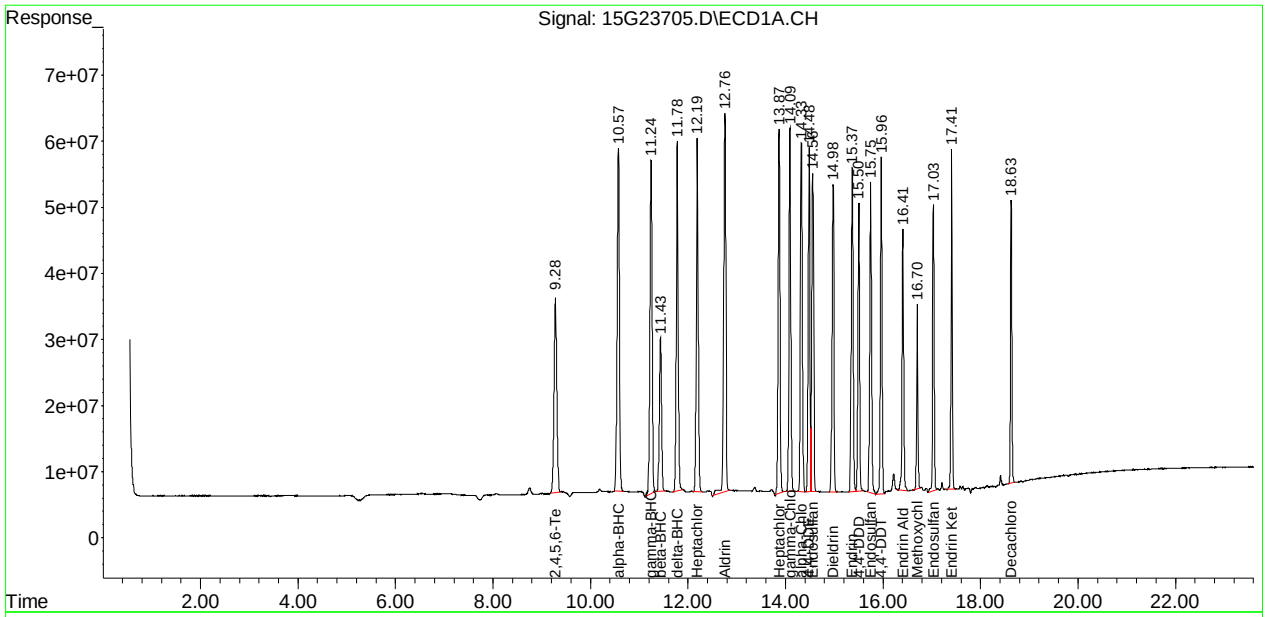
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.28	9.18	1161.3E6	962.6E6	10.318	9.952
	Spiked Amount	20.000	Range 30 - 132		Recovery =	51.59%	49.76%
22) S	Decachlorobiphen	18.63	18.90	811.0E6	603.9E6	10.221	10.375
	Spiked Amount	20.000	Range 36 - 144		Recovery =	51.11%	51.88%
	Target Compounds						
2)	alpha-BHC	10.57	10.54	1672.2E6	1406.5E6	10.062	9.701
3)	gamma-BHC	11.24	11.28	1594.7E6	1449.2E6	10.046	10.145
4)	beta-BHC	11.44	11.46	710.6E6	654.5E6	9.693	10.203
5)	Heptachlor	12.19	12.13	1575.7E6	1416.6E6	9.947	10.539
6)	delta-BHC	11.78	12.03	1526.7E6	1420.6E6	9.452	10.084
7)	Aldrin	12.76	12.74	1663.6E6	1266.4E6	10.852	10.410
8)	Heptachlor Epoxi	13.87	13.79	1480.7E6	1099.8E6	10.604	10.623
9)	gamma-Chlordane	14.09	14.13	1478.3E6	1159.0E6	10.284	10.179
10)	alpha-Chlordane	14.33	14.39	1364.7E6	1109.6E6	10.170	10.132
11)	Endosulfan I	14.56	14.48	1296.0E6	963.5E6	10.607	10.578
12)	4,4'-DDE	14.48	14.69	1298.3E6	1069.7E6	10.262	10.305
13)	Dieldrin	14.98	14.96	1217.4E6	1126.8E6	9.955	10.401
14)	Endrin	15.37	15.49	1262.3E6	951.8E6	10.560	10.601
15)	4,4'-DDD	15.50	15.69	1059.2E6	881.8E6	10.194	10.175
16)	Endosulfan II	15.75	15.85	1210.3E6	955.3E6	10.398	10.351
17)	4,4'-DDT	15.96	16.20	1188.3E6	915.0E6	10.153	10.414
18)	Endrin Aldehyde	16.41	16.38	954.1E6	725.8E6	10.446	10.190
19)	Endosulfan Sulfa	17.03	16.78	951.8E6	731.4E6	10.151	9.603
20)	Methoxychlor	16.70	17.17	590.7E6	452.0E6	10.597	10.703
21)	Endrin Ketone	17.41	17.49	1096.9E6	826.3E6	10.318	10.055

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23705.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 20:49 (#1); 27 Sep 2010 21:18 (#2)
Operator : ECL
Sample : WG343902-04 PEST ICAL 10 PPB
Misc : 1,1 STD40207
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:17:40 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:17:38 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23706.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 21:18 (#1); 27 Sep 2010 21:46 (#2)
Operator : ECL
Sample : WG343902-05 PEST ICAL 4 PPB
Misc : 1,1 STD40207
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:18:00 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:17:58 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.28	9.18	447.9E6	394.4E6	3.961	4.112
	Spiked Amount 20.000	Range 30 - 132		Recovery =		19.81%#	20.56%#
22) S	Decachlorobiphen	18.63	18.90	346.4E6	259.9E6	4.345	4.399
	Spiked Amount 20.000	Range 36 - 144		Recovery =		21.73%#	22.00%#
	Target Compounds						
2)	alpha-BHC	10.57	10.54	611.4E6	539.8E6	3.666	3.808
3)	gamma-BHC	11.24	11.28	583.0E6	558.6E6	3.674	3.946
4)	beta-BHC	11.44	11.46	282.5E6	270.4E6	3.939	4.222
5)	Heptachlor	12.19	12.13	617.6E6	570.6E6	3.979	4.224
6)	delta-BHC	11.78	12.03	562.2E6	546.2E6	3.575	3.900
7)	Aldrin	12.76	12.74	606.9E6	499.5E6	3.929	4.097
8)	Heptachlor Epoxi	13.87	13.79	585.7E6	452.5E6	4.156	4.331
9)	gamma-Chlordane	14.09	14.13	590.9E6	462.8E6	4.067	4.070
10)	alpha-Chlordane	14.33	14.39	544.8E6	450.8E6	4.033	4.116
11)	Endosulfan I	14.56	14.48	511.9E6	408.6E6	4.147	4.447
12)	4,4'-DDE	14.49	14.69	489.7E6	418.2E6	3.851	4.020
13)	Dieldrin	14.98	14.96	498.8E6	447.7E6	4.063	4.125
14)	Endrin	15.37	15.49	487.9E6	390.3E6	4.053	4.281
15)	4,4'-DDD	15.51	15.69	399.1E6	345.5E6	3.843	3.995
16)	Endosulfan II	15.75	15.85	485.2E6	389.4E6	4.141	4.217
17)	4,4'-DDT	15.97	16.19	450.8E6	359.7E6	3.842	4.051
18)	Endrin Aldehyde	16.41	16.38	393.7E6	316.4E6	4.315	4.450
19)	Endosulfan Sulfa	17.04	16.78	391.9E6	293.8E6	4.177	3.953
20)	Methoxychlor	16.71	17.17	239.3E6	193.0E6	4.250	4.472
21)	Endrin Ketone	17.41	17.49	450.8E6	333.1E6	4.221	4.088

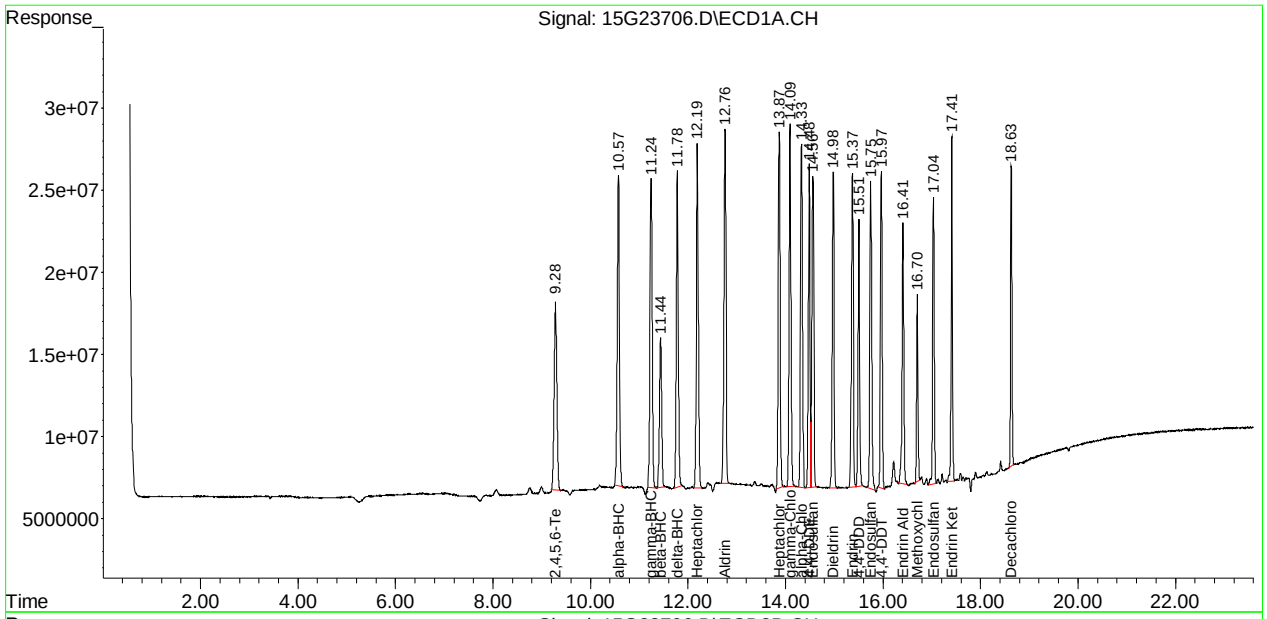
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

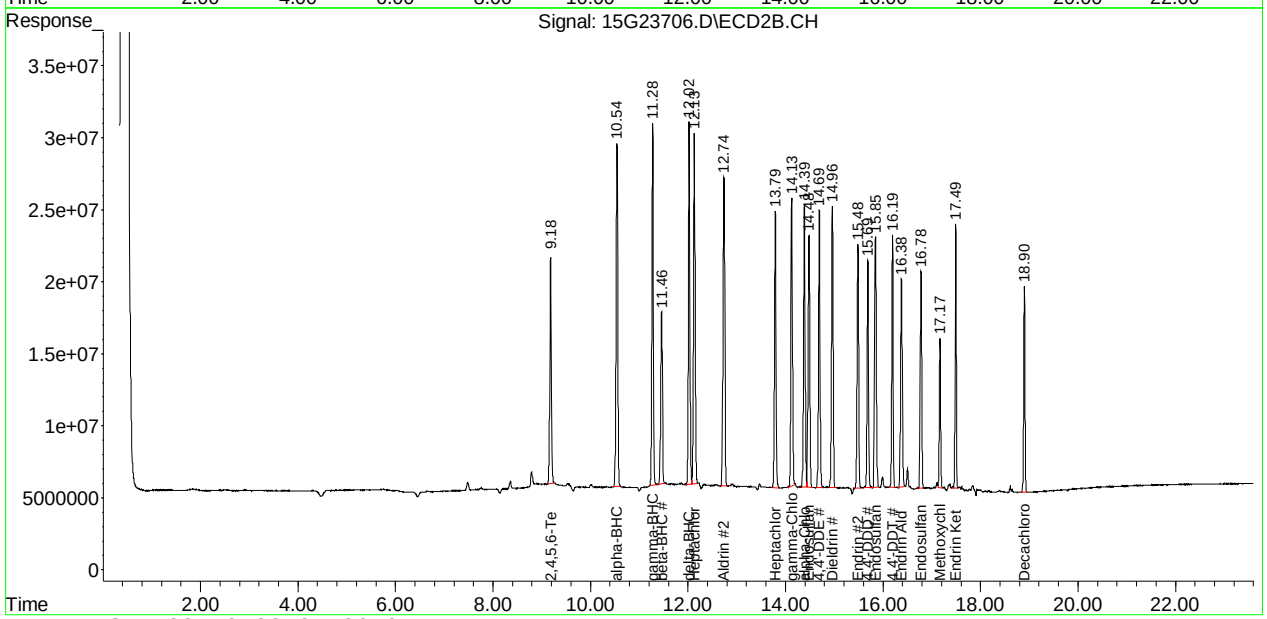
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23706.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 21:18 (#1); 27 Sep 2010 21:46 (#2)
Operator : ECL
Sample : WG343902-05 PEST ICAL 4 PPB
Misc : 1,1 STD40207
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:18:00 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:17:58 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23707.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 21:46 (#1); 27 Sep 2010 22:14 (#2)
Operator : ECL
Sample : WG343902-06 PEST ICAL 1 PPB
Misc : 1,1 STD40207
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:20:07 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:18:56 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.28	9.18	111.1E6	103.8E6	0.977	1.087
	Spiked Amount	20.000	Range 30 - 132		Recovery =	4.88%#	5.43%#
22) S	Decachlorobiphen	18.63	18.90	96397305	73528664	1.203	1.221
	Spiked Amount	20.000	Range 36 - 144		Recovery =	6.02%#	6.11%#
	Target Compounds						
2)	alpha-BHC	10.57	10.54	143.7E6	129.0E6	0.861	0.931
3)	gamma-BHC	11.24	11.27	139.1E6	139.8E6	0.892	0.990
4)	beta-BHC	11.44	11.46	71641717	70498702	1.026	1.095
5)	Heptachlor	12.19	12.13	156.3E6	149.6E6	1.031	1.097
6)	delta-BHC	11.78	12.02	131.4E6	133.0E6	0.858	0.952
7)	Aldrin	12.76	12.74	146.3E6	127.1E6	0.942	1.036
8)	Heptachlor Epoxi	13.87	13.79	155.4E6	111.8E6	1.095	1.061
9)	gamma-Chlordane	14.09	14.13	161.7E6	117.2E6	1.091	1.030
10)	alpha-Chlordane	14.33	14.39	137.8E6	119.7E6	1.014	1.089
11)	Endosulfan I	14.56	14.48	131.5E6	103.1E6	1.057	1.107
12)	4,4'-DDE	14.48	14.69	119.1E6	106.2E6	0.933	1.014
13)	Dieldrin	14.98	14.96	124.5E6	115.3E6	1.003	1.057
14)	Endrin	15.37	15.48	121.5E6	96794745	1.001	1.049
15)	4,4'-DDD	15.50	15.69	95781392	88232424	0.922	1.018
16)	Endosulfan II	15.75	15.85	142.7E6	103.4E6	1.201	1.118
17)	4,4'-DDT	15.96	16.19	132.5E6	91287819	1.120	1.014
18)	Endrin Aldehyde	16.41	16.38	97215007	86240097	1.026m	1.170m
19)	Endosulfan Sulfa	17.03	16.78	114.3E6	76367184	1.196	1.059
20)	Methoxychlor	16.70	17.17	60580494	55282548	1.073	1.241
21)	Endrin Ketone	17.41	17.49	124.3E6	86651814	1.141	1.074

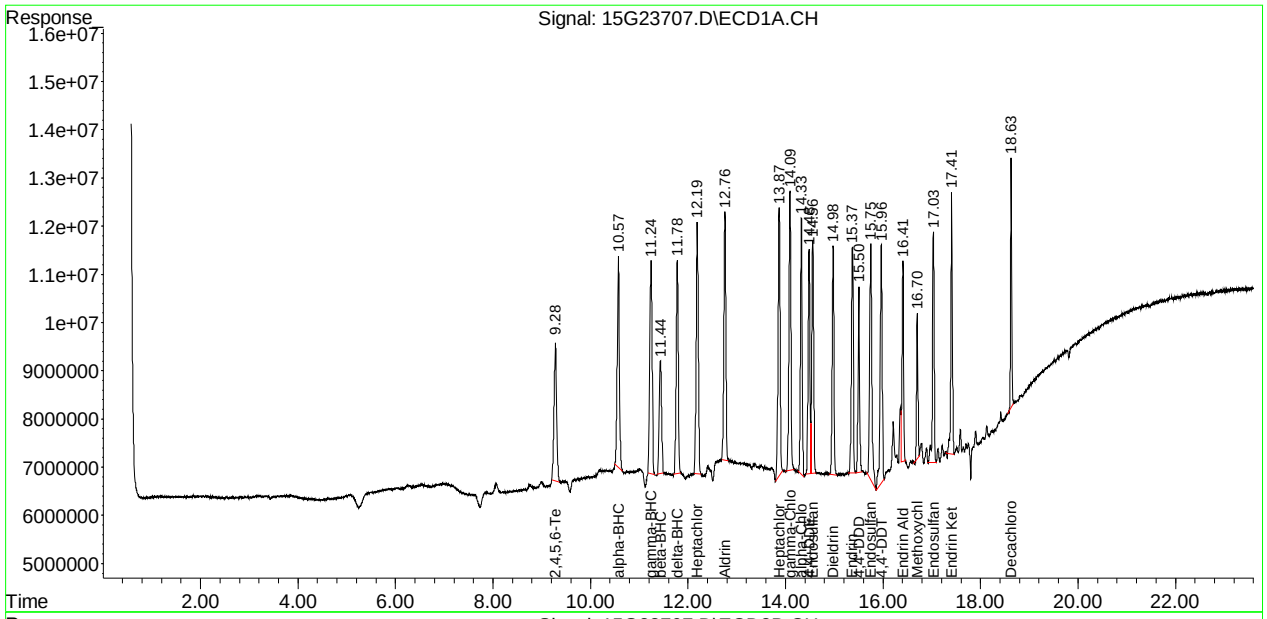
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23707.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 21:46 (#1); 27 Sep 2010 22:14 (#2)
Operator : ECL
Sample : WG343902-06 PEST ICAL 1 PPB
Misc : 1,1 STD40207
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:20:07 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:18:56 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

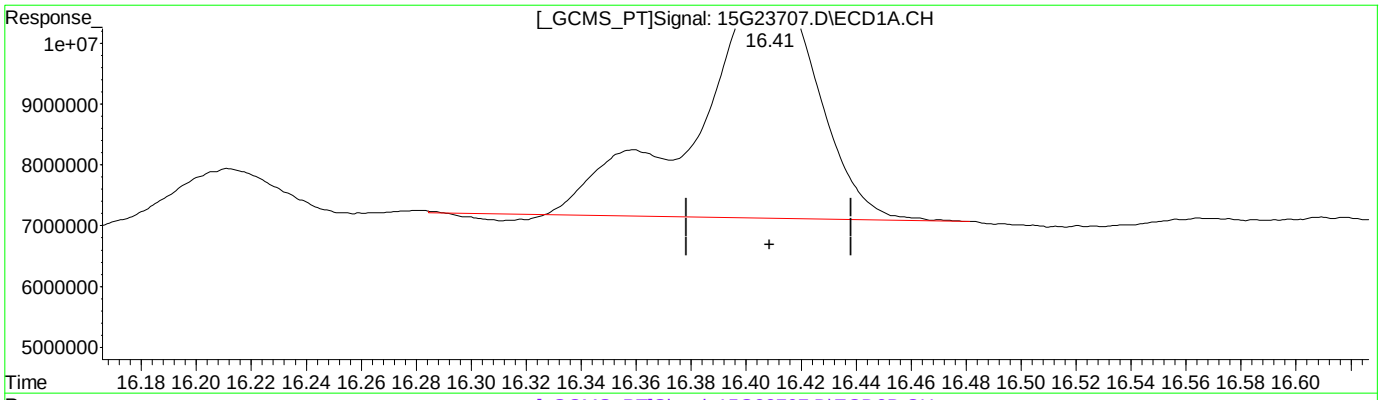


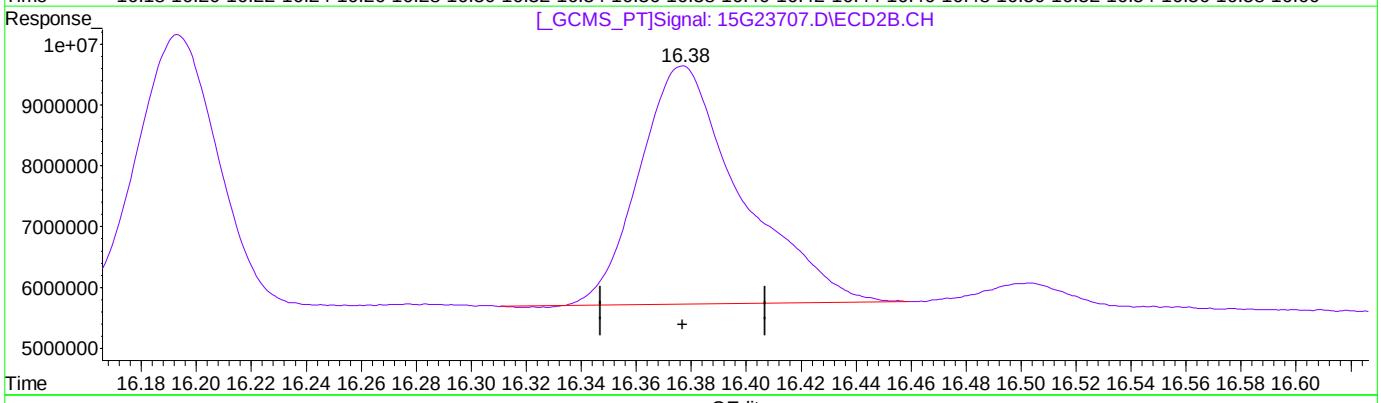
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\092710\
Data File : 15G23707.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 27 Sep 2010 21:46 (#1); 27 Sep 2010 22:14 (#2)
Operator : ECL
Sample   : WG343902-06 PEST ICAL 1 PPB
Misc   : 1,1 STD40207
ALS Vial : 13   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:18:58 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:18:56 2010
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :





QEdit

(18) Endrin Aldehyde

16.41min 1.256UG/L

response 119025064

(18) Endrin Aldehyde #2

16.38min 1.371UG/L

response 101021676

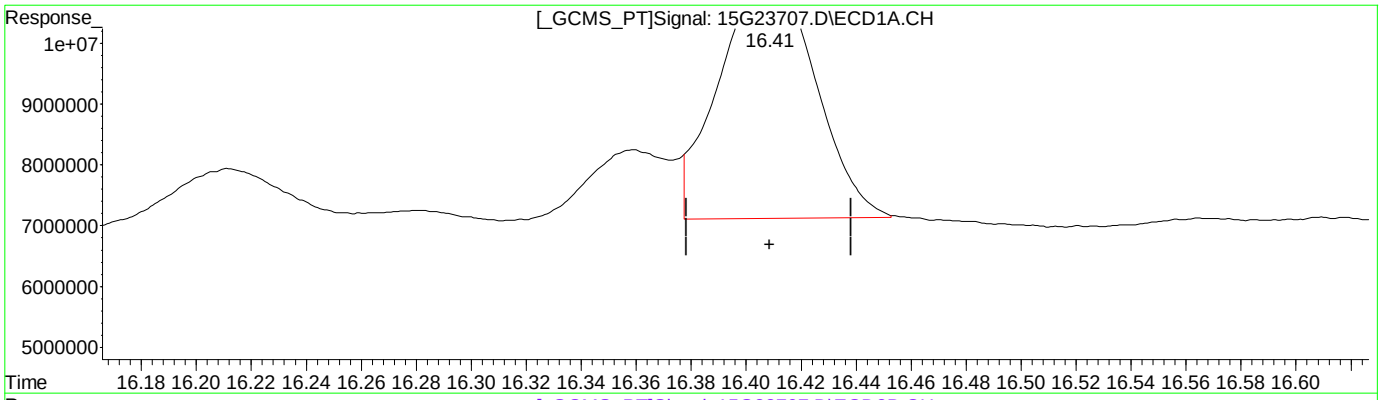
(+) = Expected Retention Time

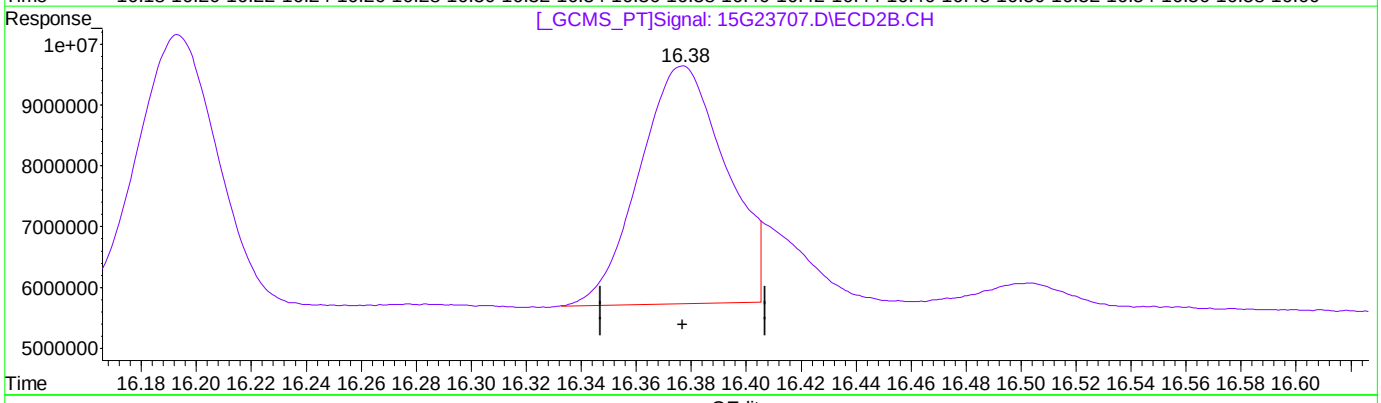
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\092710\
Data File : 15G23707.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 27 Sep 2010 21:46 (#1); 27 Sep 2010 22:14 (#2)
Operator : ECL
Sample   : WG343902-06 PEST ICAL 1 PPB
Misc   : 1,1 STD40207
ALS Vial : 13   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:18:58 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:18:56 2010
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :





QEdit

(18) Endrin Aldehyde

16.41min 1.026UG/L mint

response 97215007

(18) Endrin Aldehyde #2

16.38min 1.170UG/L mint

response 86240097

(+) = Expected Retention Time
8081.M Tue Sep 28 12:20:11 2010

Analyst: 09/28/2010 14:43 Supervisor: 10/01/2010 14:01

Page: 1

#2 - Data system splits the peak incorrectly or integrates a false peak as a rider peak

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23708.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 22:14 (#1); 27 Sep 2010 22:43 (#2)
Operator : ECL
Sample : WG343902-07 PEST ALT 20 PPB
Misc : 1,1 STD38730
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:21:13 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:20:31 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

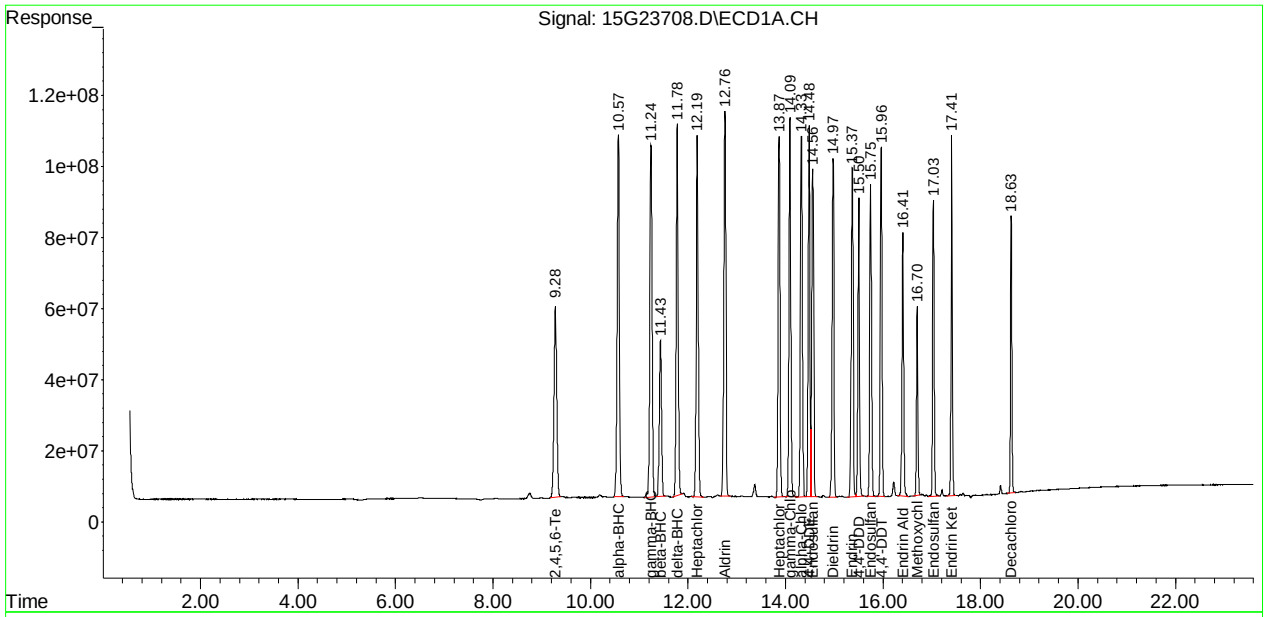
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.28	9.18	2115.1E6	1760.0E6	18.597	18.440
	Spiked Amount	20.000	Range 30 - 132		Recovery =	92.99%	92.20%
22) S	Decachlorobiphen	18.63	18.90	1452.1E6	1080.5E6	18.121	17.940
	Spiked Amount	20.000	Range 36 - 144		Recovery =	90.60%	89.70%
	Target Compounds						
2)	alpha-BHC	10.57	10.54	3314.0E6	2754.1E6	19.855	19.873
3)	gamma-BHC	11.24	11.28	3094.7E6	2776.1E6	19.850	19.658
4)	beta-BHC	11.43	11.46	1362.6E6	1257.6E6	19.511	19.529
5)	Heptachlor	12.19	12.13	3011.2E6	2693.2E6	19.872	19.745
6)	delta-BHC	11.78	12.02	3013.6E6	2770.1E6	19.693	19.820
7)	Aldrin	12.76	12.74	3054.4E6	2402.4E6	19.671	19.585
8)	Heptachlor Epoxi	13.87	13.79	2734.8E6	2087.7E6	19.266	19.819
9)	gamma-Chlordane	14.09	14.13	2812.3E6	2197.2E6	18.972	19.319
10)	alpha-Chlordane	14.33	14.39	2659.1E6	2098.3E6	19.568	19.096
11)	Endosulfan I	14.56	14.48	2480.2E6	1843.7E6	19.943	19.796
12)	4,4'-DDE	14.48	14.69	2602.7E6	2112.4E6	20.379	20.178
13)	Dieldrin	14.98	14.96	2475.9E6	2098.6E6	19.943	19.234
14)	Endrin	15.37	15.48	2402.7E6	1818.1E6	19.795	19.708
15)	4,4'-DDD	15.50	15.69	2058.3E6	1690.7E6	19.820	19.508
16)	Endosulfan II	15.75	15.85	2218.5E6	1769.7E6	18.674	19.133
17)	4,4'-DDT	15.96	16.19	2255.1E6	1766.9E6	19.071	19.633
18)	Endrin Aldehyde	16.41	16.38	1751.1E6	1565.9E6	19.211	21.985
19)	Endosulfan Sulfa	17.03	16.78	1804.0E6	1400.5E6	18.868	19.430
20)	Methoxychlor	16.70	17.17	1124.9E6	849.5E6	19.929	19.065
21)	Endrin Ketone	17.41	17.49	2168.6E6	1628.4E6	19.903	20.187

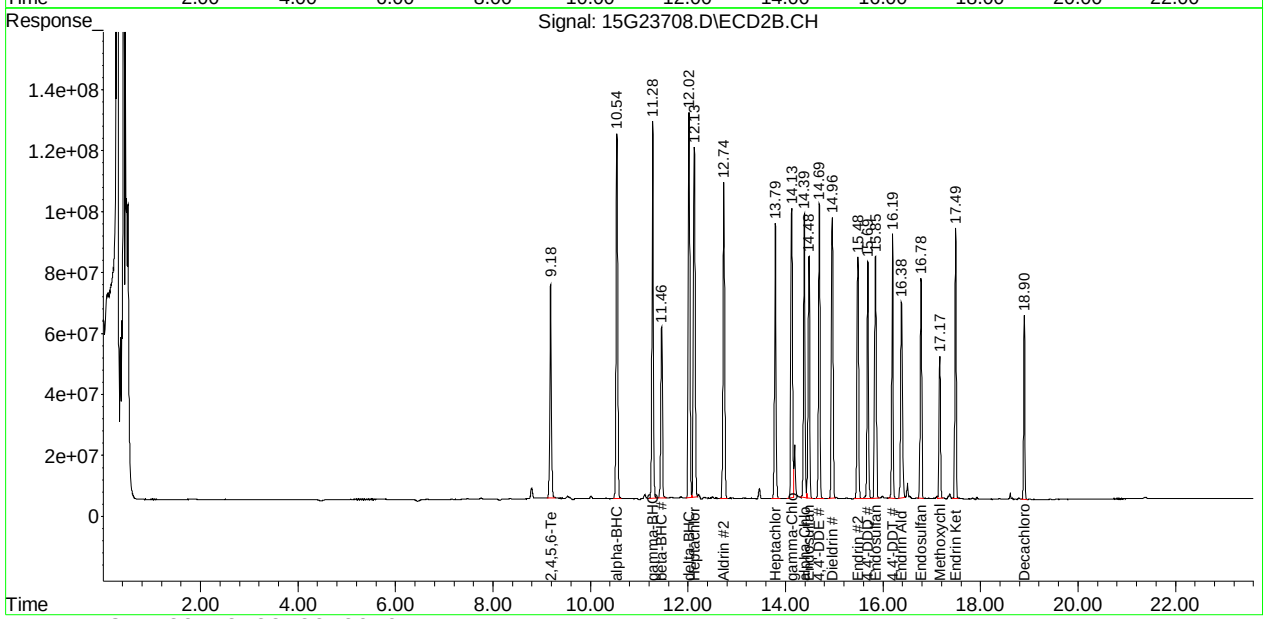
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23708.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 22:14 (#1); 27 Sep 2010 22:43 (#2)
Operator : ECL
Sample : WG343902-07 PEST ALT 20 PPB
Misc : 1,1 STD38730
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:21:13 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:20:31 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23696.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 16:34 (#1); 27 Sep 2010 17:02 (#2)
Operator : ECL
Sample : WG343903-01 TOX ICAL 2000 PPB
Misc : 1,1 STD40827
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Sep 28 10:42:12 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Tue Sep 28 10:40:55 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
Target Compounds						
1) L1 Toxaphene-1	15.29	14.93	4675.3E6	1731.6E6	2057.738	1813.515
2) L1 Toxaphene-2	15.94	15.98	3427.3E6	5887.3E6	1955.600	1844.529
3) L1 Toxaphene-3	16.90	16.77	5834.6E6	1779.9E6	1987.564	1849.556
4) L1 Toxaphene-4	17.13	17.11	2687.6E6	4091.5E6	2023.666	1876.894
5) L1 Toxaphene-5	17.59	17.62	2769.1E6	1658.1E6	2036.688	1862.576
Sum Toxaphene-1			19394.0E6	15148.4E6	10061.257	9247.069
Average Toxaphene-1					2012.251	1849.414

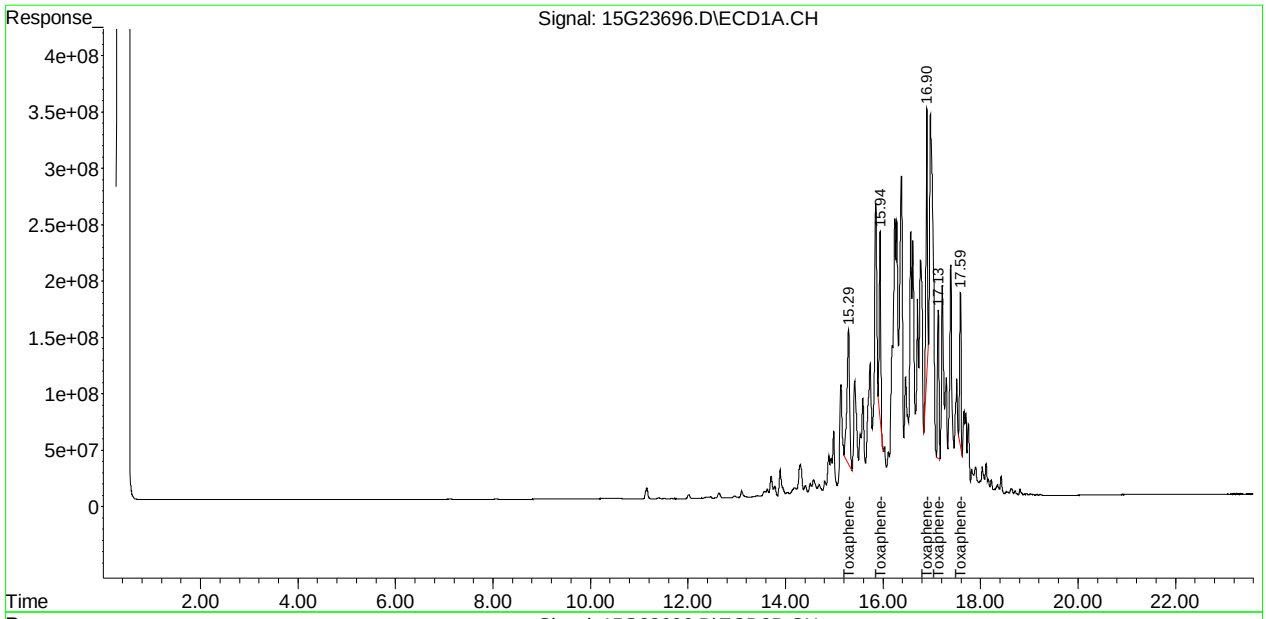
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

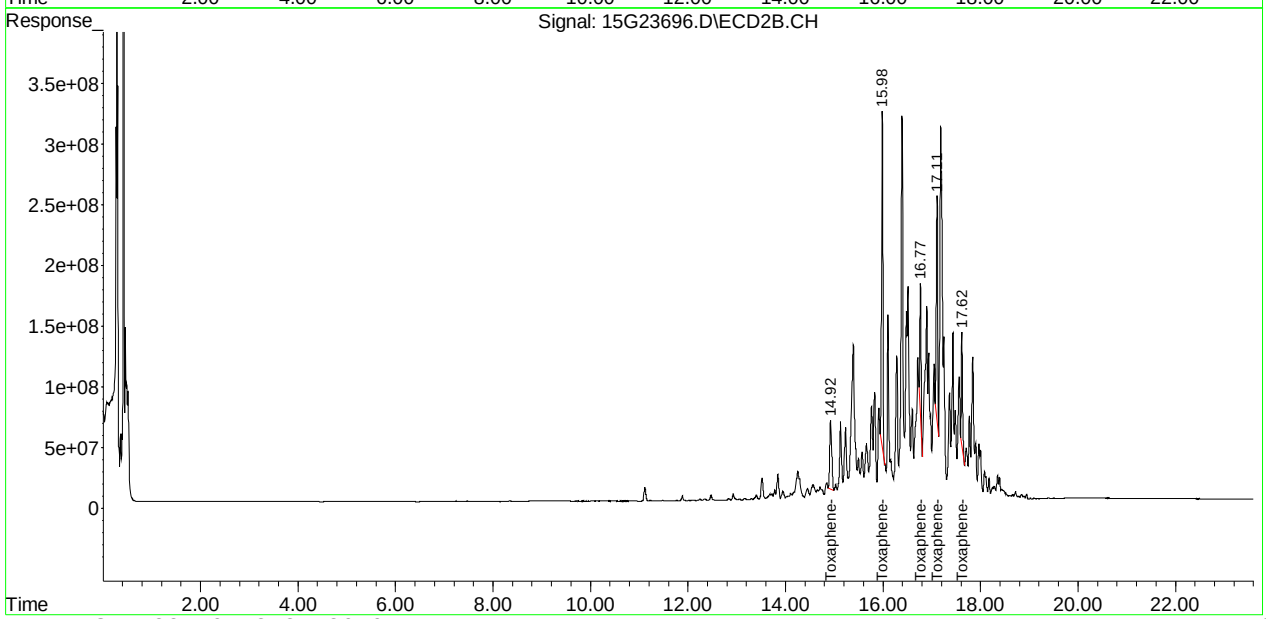
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23696.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 16:34 (#1); 27 Sep 2010 17:02 (#2)
Operator : ECL
Sample : WG343903-01 TOX ICAL 2000 PPB
Misc : 1,1 STD40827
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Sep 28 10:42:12 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Tue Sep 28 10:40:55 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23697.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 17:02 (#1); 27 Sep 2010 17:30 (#2)
Operator : ECL
Sample : WG343903-02 TOX ICAL 1000 PPB
Misc : 1,1 STD40827
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Sep 28 10:42:16 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Tue Sep 28 10:40:55 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	Target Compounds						
1)	L1 Toxaphene-1	15.29	14.92	2330.9E6	933.8E6	1025.894	977.986
2)	L1 Toxaphene-2	15.94	15.98	1786.5E6	3188.8E6	1019.382	999.083
3)	L1 Toxaphene-3	16.90	16.77	2863.8E6	969.0E6	975.550	1006.933
4)	L1 Toxaphene-4	17.13	17.11	1346.6E6	2027.7E6	1013.981	930.176
5)	L1 Toxaphene-5	17.59	17.62	1377.6E6	880.7E6	1013.246	989.312
	Sum Toxaphene-1			9705.5E6	8000.1E6	5048.053	4903.489
Average	Toxaphene-1					1009.611	980.698

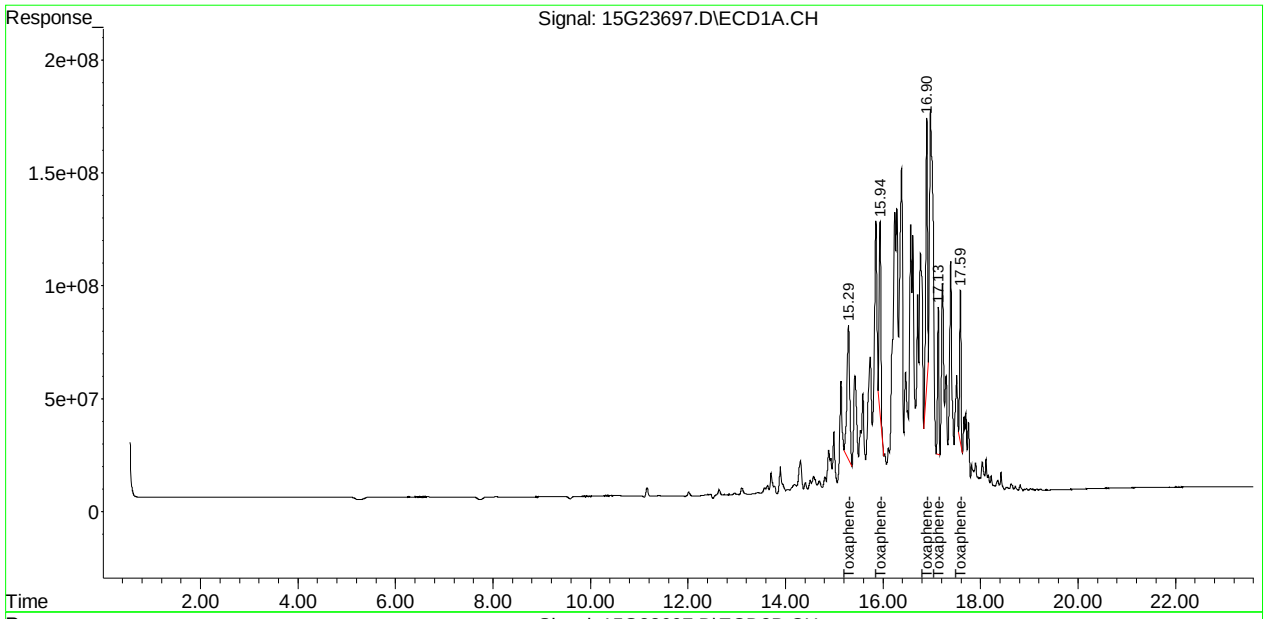
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

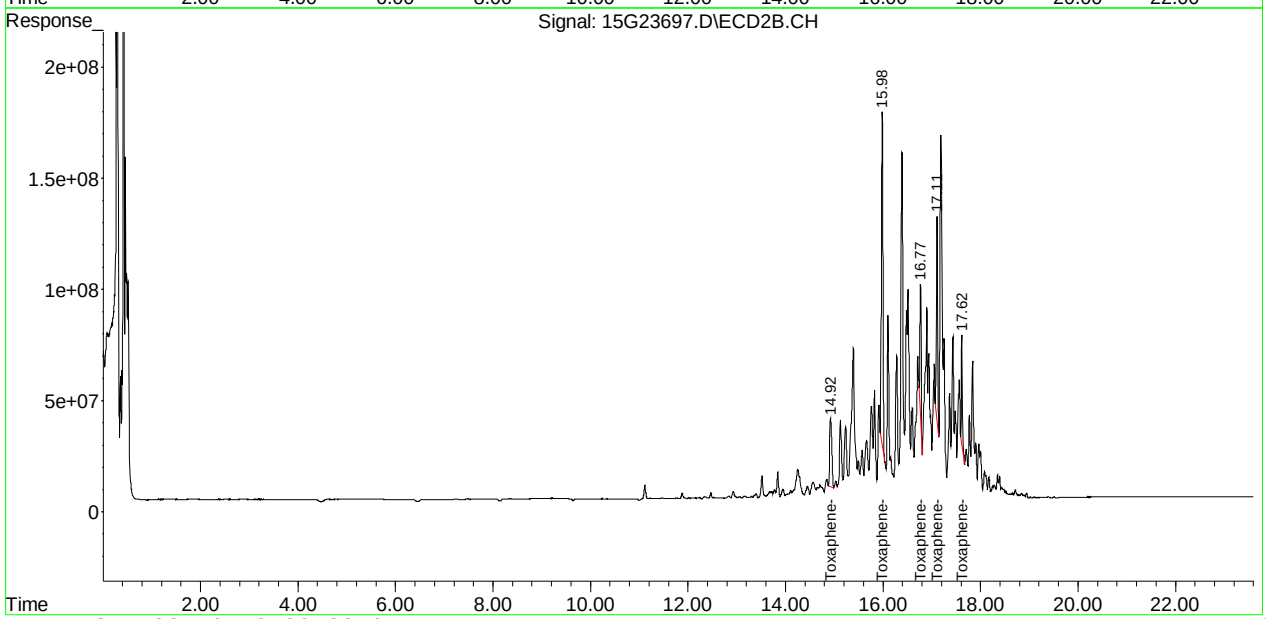
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23697.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 17:02 (#1); 27 Sep 2010 17:30 (#2)
Operator : ECL
Sample : WG343903-02 TOX ICAL 1000 PPB
Misc : 1,1 STD40827
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Sep 28 10:42:16 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Tue Sep 28 10:40:55 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23698.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 17:30 (#1); 27 Sep 2010 17:59 (#2)
Operator : ECL
Sample : WG343903-03 TOX ICAL 500 PPB
Misc : 1,1 STD40827
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Sep 28 10:39:25 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Tue Sep 28 10:39:23 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
Target Compounds						
1) L1 Toxaphene-1	15.29	14.93	1166.3E6	481.4E6	509.711	484.687
2) L1 Toxaphene-2	15.94	15.98	885.8E6	1629.0E6	505.723	511.929
3) L1 Toxaphene-3	16.90	16.77	1509.6E6	497.7E6	527.095	515.668
4) L1 Toxaphene-4	17.13	17.11	678.2E6	1150.1E6	515.952	546.528
5) L1 Toxaphene-5	17.59	17.62	697.3E6	449.3E6	532.715	470.123
Sum Toxaphene-1			4937.2E6	4207.5E6	2591.196	2528.935
Average Toxaphene-1					518.239	505.787

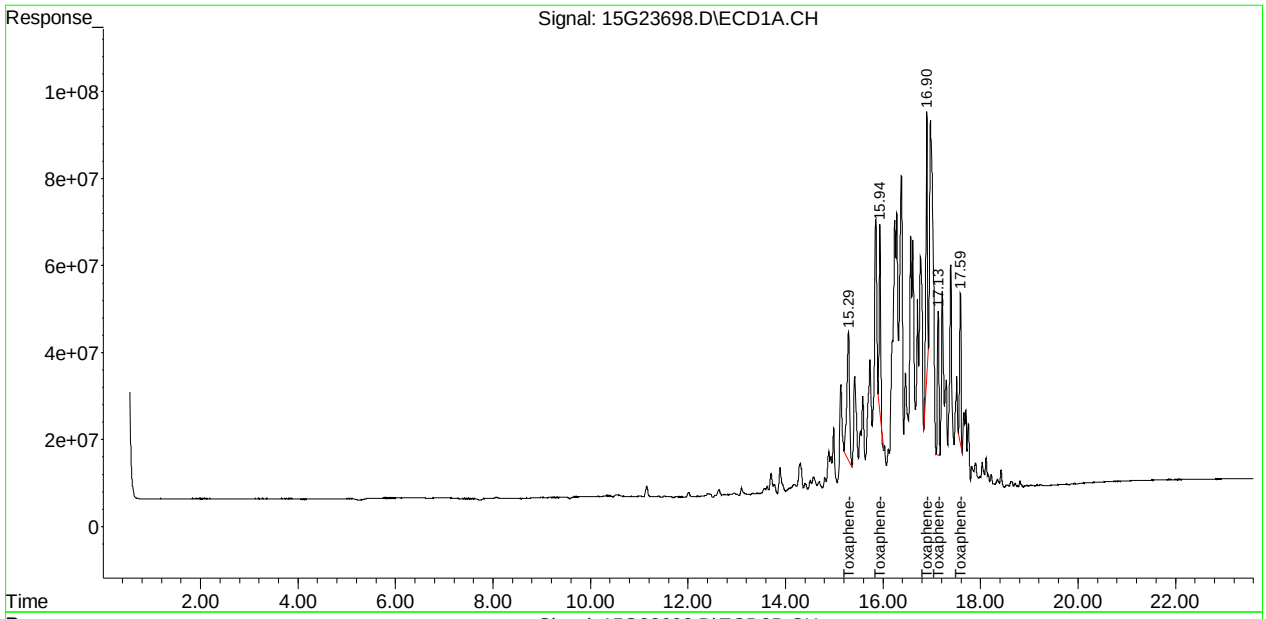
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

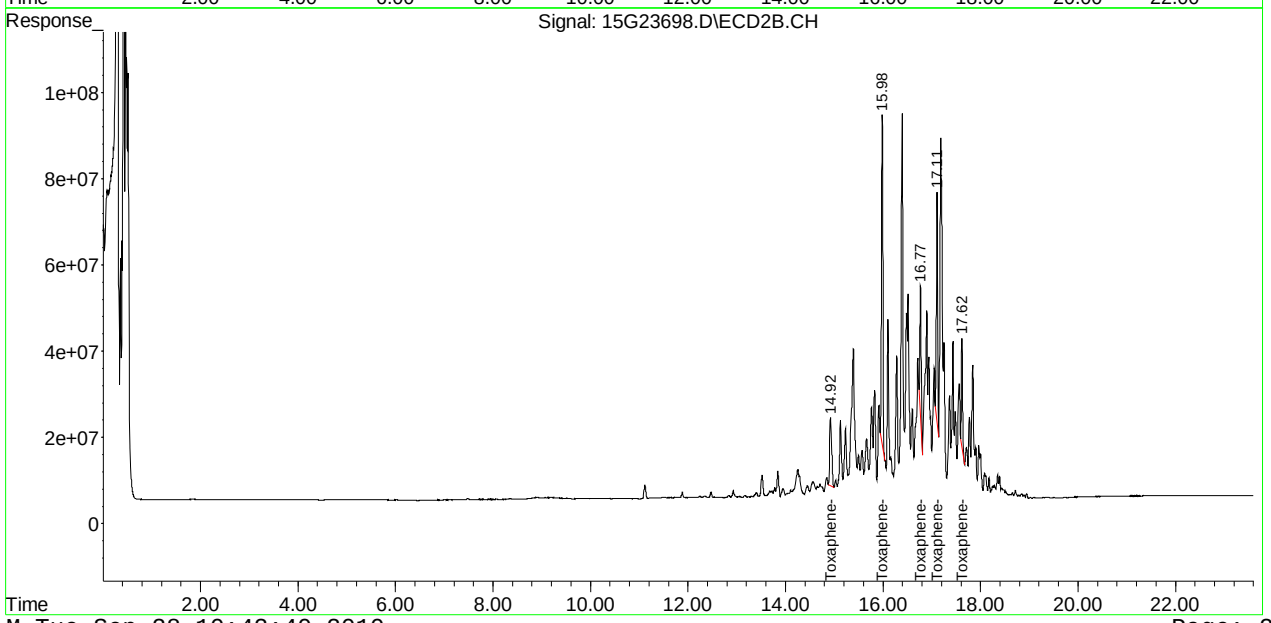
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23698.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 17:30 (#1); 27 Sep 2010 17:59 (#2)
Operator : ECL
Sample : WG343903-03 TOX ICAL 500 PPB
Misc : 1,1 STD40827
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Sep 28 10:39:25 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Tue Sep 28 10:39:23 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23699.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 17:59 (#1); 27 Sep 2010 18:27 (#2)
Operator : ECL
Sample : WG343903-04 TOX ICAL 200 PPB
Misc : 1,1 STD40827
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Sep 28 10:40:43 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Tue Sep 28 10:40:42 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
Target Compounds						
1) L1 Toxaphene-1	15.29	14.93	432.0E6	195.9E6	190.243	199.925
2) L1 Toxaphene-2	15.94	15.98	354.4E6	643.9E6	201.119	201.960
3) L1 Toxaphene-3	16.90	16.77	573.4E6	193.0E6	199.960	200.024
4) L1 Toxaphene-4	17.13	17.11	256.4E6	438.9E6	195.244	208.825
5) L1 Toxaphene-5	17.59	17.62	260.2E6	179.4E6	196.520	191.384
Sum Toxaphene-1			1876.5E6	1651.0E6	983.086	1002.118
Average Toxaphene-1					196.617	200.424

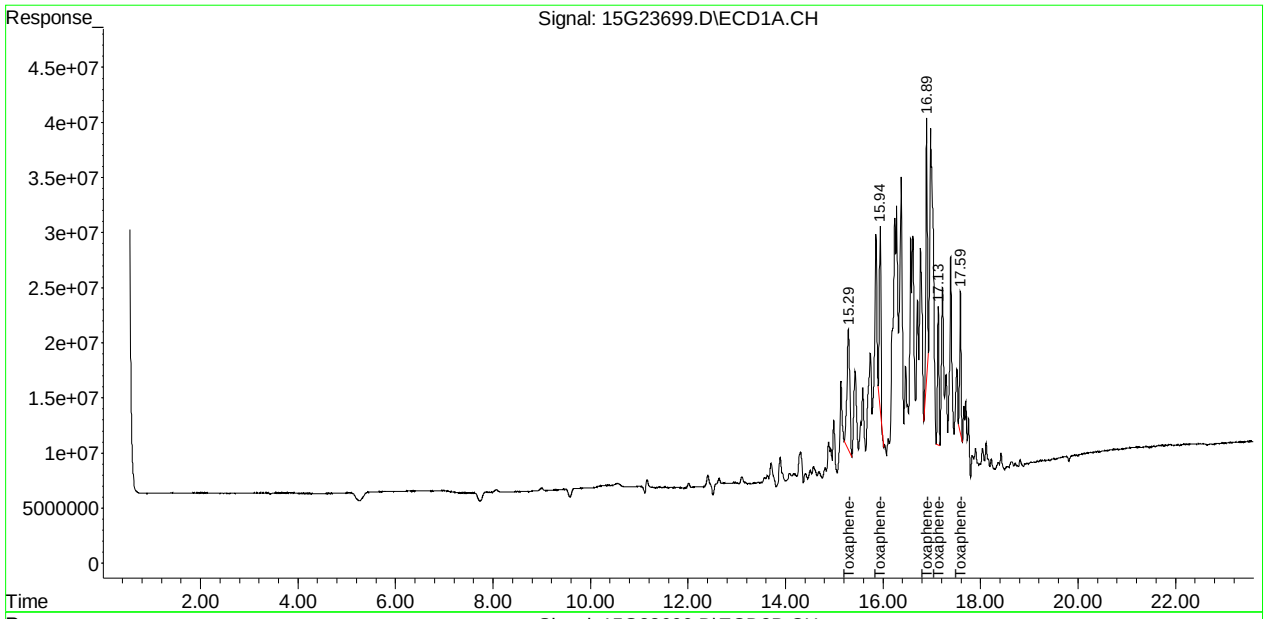
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

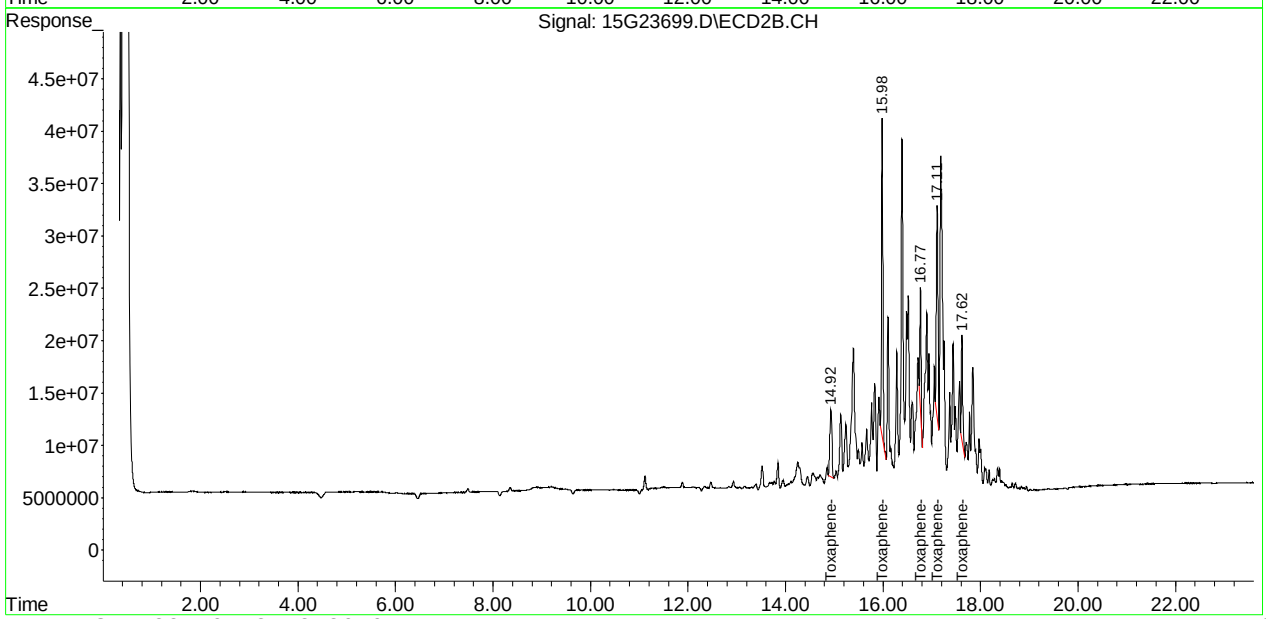
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23699.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 17:59 (#1); 27 Sep 2010 18:27 (#2)
Operator : ECL
Sample : WG343903-04 TOX ICAL 200 PPB
Misc : 1,1 STD40827
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Sep 28 10:40:43 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Tue Sep 28 10:40:42 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





TOX.M Tue Sep 28 10:42:42 2010 Page: 2

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23700.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 18:27 (#1); 27 Sep 2010 18:55 (#2)
Operator : ECL
Sample : WG343903-05 TOX ICAL 100 PPB
Misc : 1,1 STD40827
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Sep 28 10:40:57 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Tue Sep 28 10:40:55 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	Target Compounds						
1)	L1 Toxaphene-1	15.29	14.92	219.9E6	103.2E6	96.787	108.132
2)	L1 Toxaphene-2	15.94	15.98	171.9E6	334.9E6	98.080	104.922
3)	L1 Toxaphene-3	16.90	16.77	301.1E6	99244709	102.556	103.129
4)	L1 Toxaphene-4	17.13	17.11	131.2E6	233.2E6	98.755	106.966
5)	L1 Toxaphene-5	17.59	17.62	134.0E6	94559756	98.563	106.223
	Sum Toxaphene-1			958.0E6	865.1E6	494.742	529.373
Average	Toxaphene-1					98.948	105.875

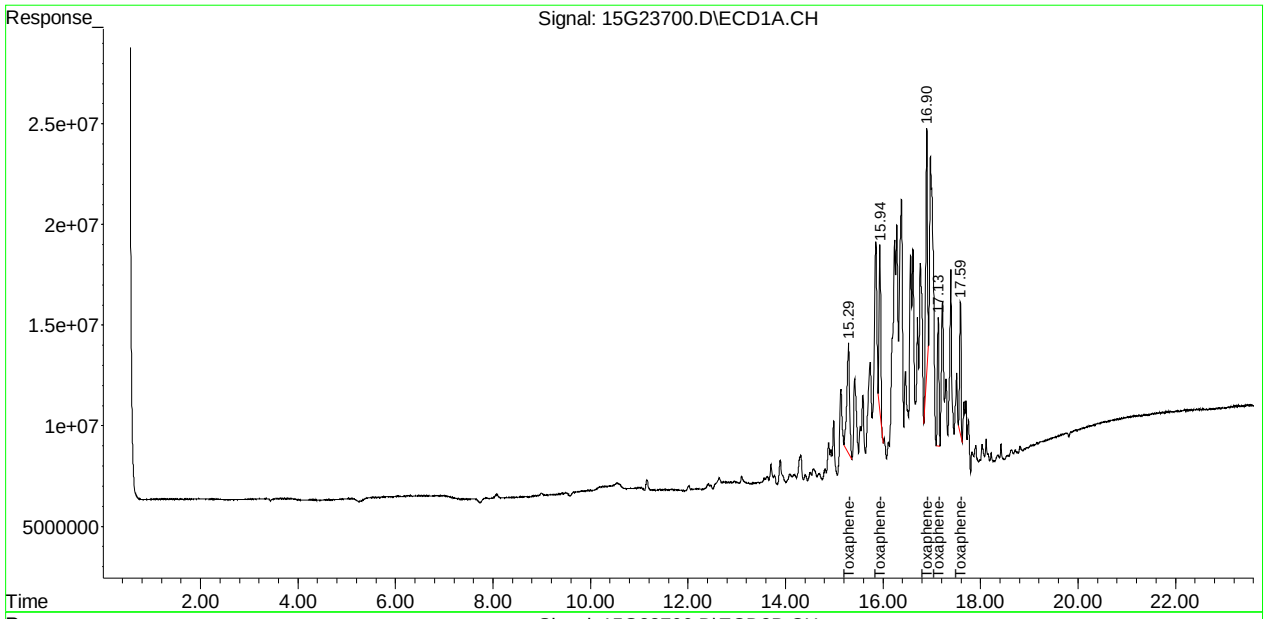
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

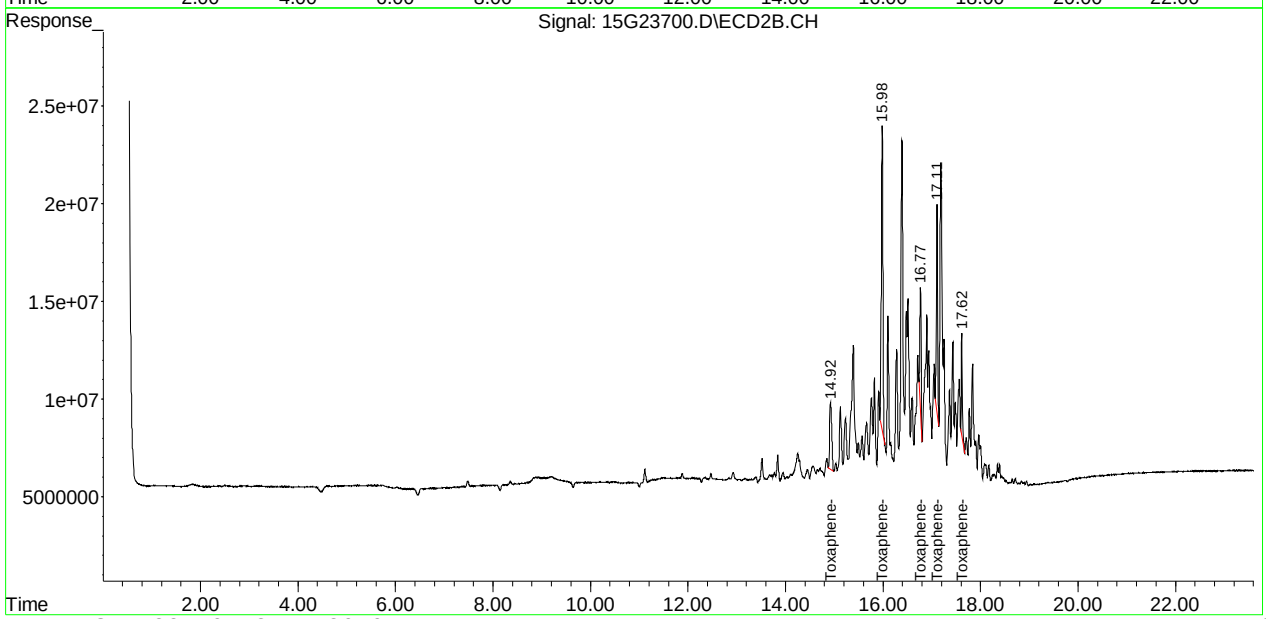
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23700.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 18:27 (#1); 27 Sep 2010 18:55 (#2)
Operator : ECL
Sample : WG343903-05 TOX ICAL 100 PPB
Misc : 1,1 STD40827
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Sep 28 10:40:57 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Tue Sep 28 10:40:55 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





TOX.M Tue Sep 28 10:42:44 2010 Page: 2

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23701.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 18:55 (#1); 27 Sep 2010 19:24 (#2)
Operator : ECL
Sample : WG343903-06 TOX ALT 500 PPB
Misc : 1,1 STD40828
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Sep 28 10:41:47 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Tue Sep 28 10:40:55 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
Target Compounds						
1) L1 Toxaphene-1	15.26f	14.93	640.5E6	459.1E6	281.914	480.783 #
2) L1 Toxaphene-2	15.93	15.98	969.4E6	1540.4E6	553.128	482.611
3) L1 Toxaphene-3	16.90	16.77	1438.4E6	204.0E6	489.992	211.953 #
4) L1 Toxaphene-4	17.13	17.11	593.0E6	1054.2E6	446.524	483.581
5) L1 Toxaphene-5	17.59	17.62	651.6E6	510.4E6	479.246	573.364
Sum Toxaphene-1			4292.9E6	3768.0E6	2250.804	2232.292
Average Toxaphene-1					450.161	446.458

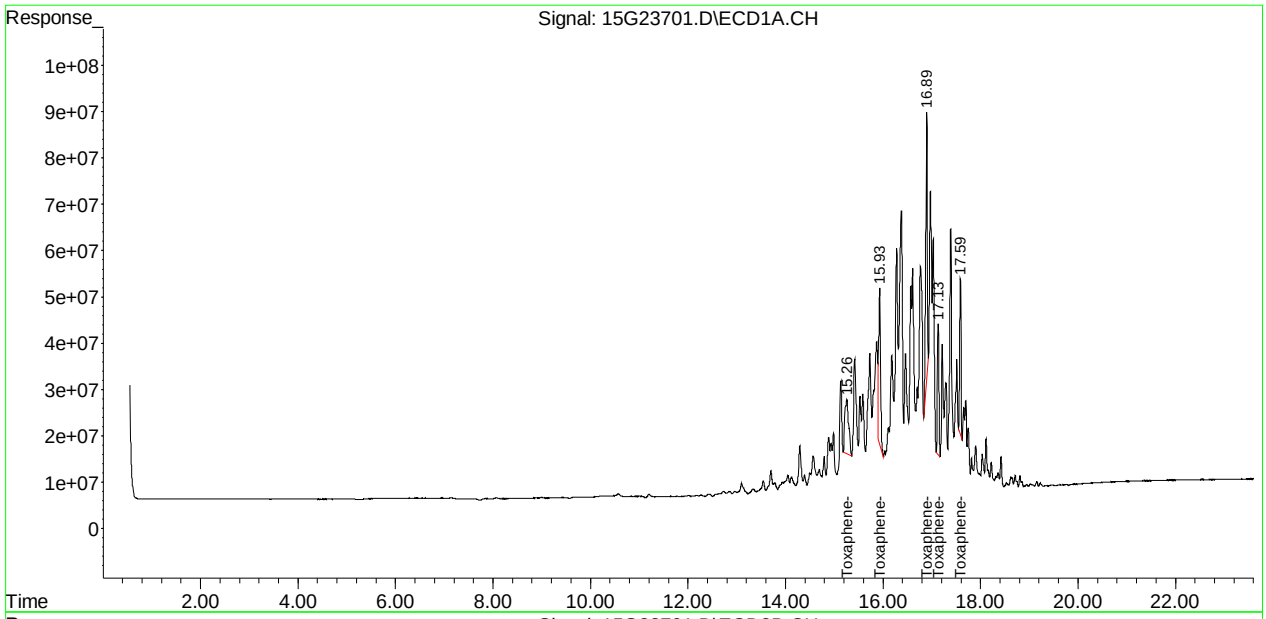
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

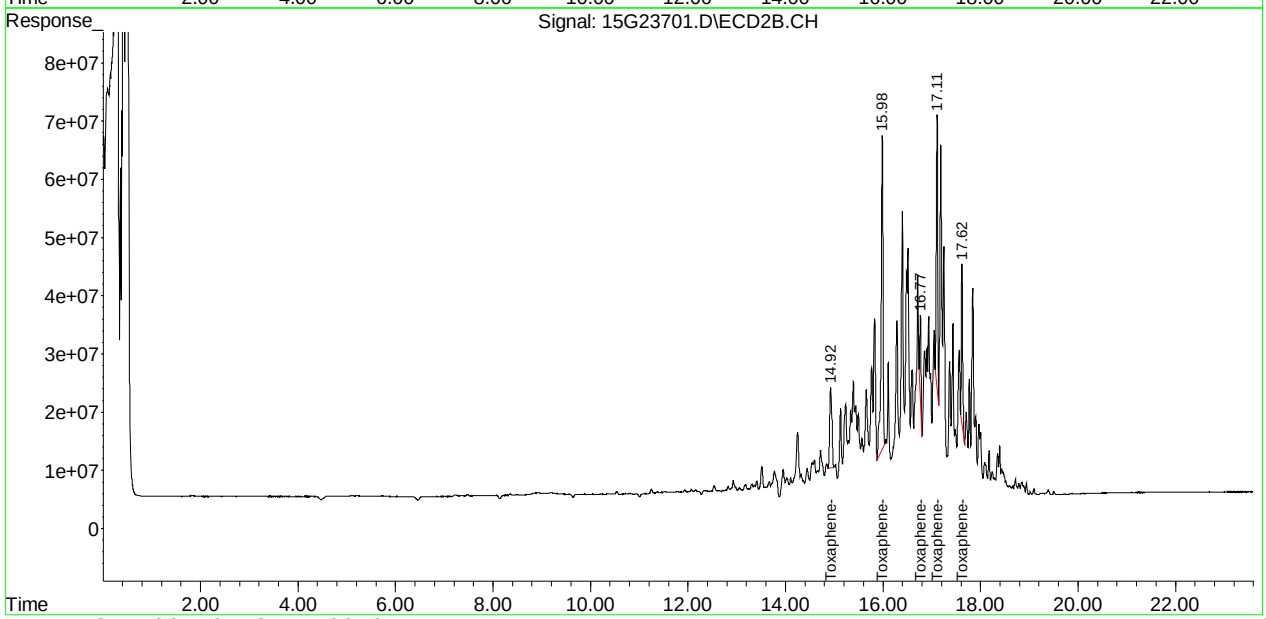
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23701.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 18:55 (#1); 27 Sep 2010 19:24 (#2)
Operator : ECL
Sample : WG343903-06 TOX ALT 500 PPB
Misc : 1,1 STD40828
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Sep 28 10:41:47 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Tue Sep 28 10:40:55 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Data Path : C:\MSDChem\1\DATA\120110\
Data File : 15G24267.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2010 13:58 (#1); 01 Dec 2010 14:26 (#2)
Operator : ECL
Sample : WG350177-02 PEST CCV 20 PPB
Misc : 1,1 STD40207
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 01 15:25:43 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Mon Nov 01 10:45:39 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.27	9.17	2414.2E6	1832.8E6	21.227	19.203
	Spiked Amount	20.000	Range 30 - 132		Recovery =	106.14%	96.02%
22) S	Decachlorobiphen	18.62	18.89	1646.6E6	1174.5E6	20.548	19.500
	Spiked Amount	20.000	Range 36 - 144		Recovery =	102.74%	97.50%
	Target Compounds						
2)	alpha-BHC	10.56	10.53	3685.7E6	2804.6E6	22.082	20.237
3)	gamma-BHC	11.23	11.27	3416.6E6	2643.9E6	21.915	18.722
4)	beta-BHC	11.42	11.45	1481.2E6	1158.3E6	21.208	17.986
5)	Heptachlor	12.18	12.12	3241.5E6	2694.9E6	21.392	19.758
6)	delta-BHC	11.77	12.02	3452.1E6	2882.2E6	22.559	20.623
7)	Aldrin	12.74	12.73	3151.3E6	2478.6E6	20.295	20.205
8)	Heptachlor Epoxi	13.85	13.78	3043.6E6	2169.6E6	21.441	20.596
9)	gamma-Chlordane	14.08	14.12	3127.3E6	2355.5E6	21.097	20.710
10)	alpha-Chlordane	14.31	14.38	2942.6E6	2240.7E6	21.654	20.392
11)	Endosulfan I	14.54	14.47	2672.1E6	1950.5E6	21.487	20.942
12)	4,4'-DDE	14.47	14.68	2787.4E6	2155.2E6	21.825	20.587
13)	Dieldrin	14.96	14.95	2729.1E6	2270.6E6	21.982	20.810
14)	Endrin	15.35	15.47	2497.0E6	1798.0E6	20.572	19.490
15)	4,4'-DDD	15.49	15.68	2331.1E6	1839.9E6	22.448	21.230
16)	Endosulfan II	15.73	15.84	2417.9E6	1927.0E6	20.352	20.835
17)	4,4'-DDT	15.95	16.19	2330.0E6	1814.5E6	19.705	20.162
18)	Endrin Aldehyde	16.39	16.37	1910.9E6	1408.8E6	20.964	19.779
19)	Endosulfan Sulfa	17.02	16.77	2076.7E6	1692.1E6	21.720	23.475
20)	Methoxychlor	16.69	17.16	1116.5E6	826.3E6	19.781	18.544
21)	Endrin Ketone	17.40	17.48	2413.4E6	1858.8E6	22.150	23.043

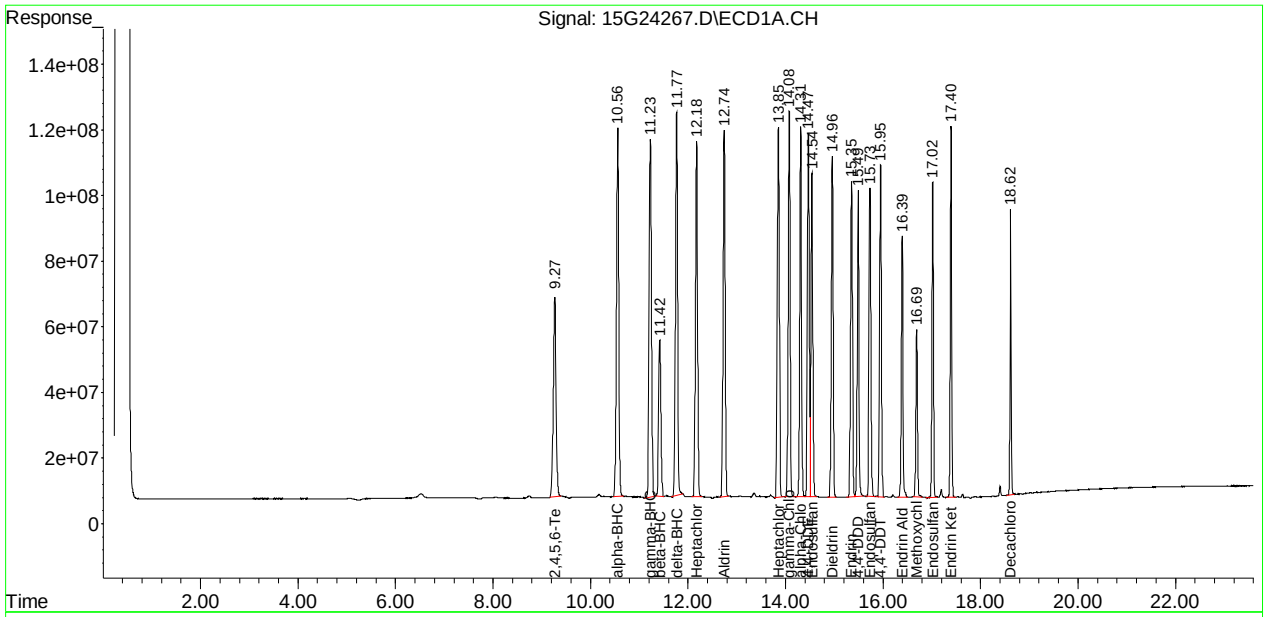
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\120110\
Data File : 15G24267.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2010 13:58 (#1); 01 Dec 2010 14:26 (#2)
Operator : ECL
Sample : WG350177-02 PEST CCV 20 PPB
Misc : 1,1 STD40207
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 01 15:25:43 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Mon Nov 01 10:45:39 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\120110\
Data File : 15G24268.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2010 15:24 (#1); 01 Dec 2010 15:52 (#2)
Operator : ECL
Sample : WG350178-01 TOX CCV 500 PPB
Misc : 1,1 STD40827
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Dec 02 08:42:22 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Mon Nov 01 10:42:47 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	Target Compounds						
1)	L1 Toxaphene-1	15.28	14.91	1241.7E6	521.9E6	546.511	546.631
2)	L1 Toxaphene-2	15.93	15.97	916.0E6	1650.8E6	522.664	517.197
3)	L1 Toxaphene-3	16.89	16.76	1513.9E6	511.9E6	515.700	531.970
4)	L1 Toxaphene-4	17.12	17.10	708.2E6	1103.0E6	533.259	505.961
5)	L1 Toxaphene-5	17.58	17.61	723.2E6	470.0E6	531.941	528.015
	Sum Toxaphene-1			5103.0E6	4257.6E6	2650.073	2629.775
Average	Toxaphene-1					530.015	525.955

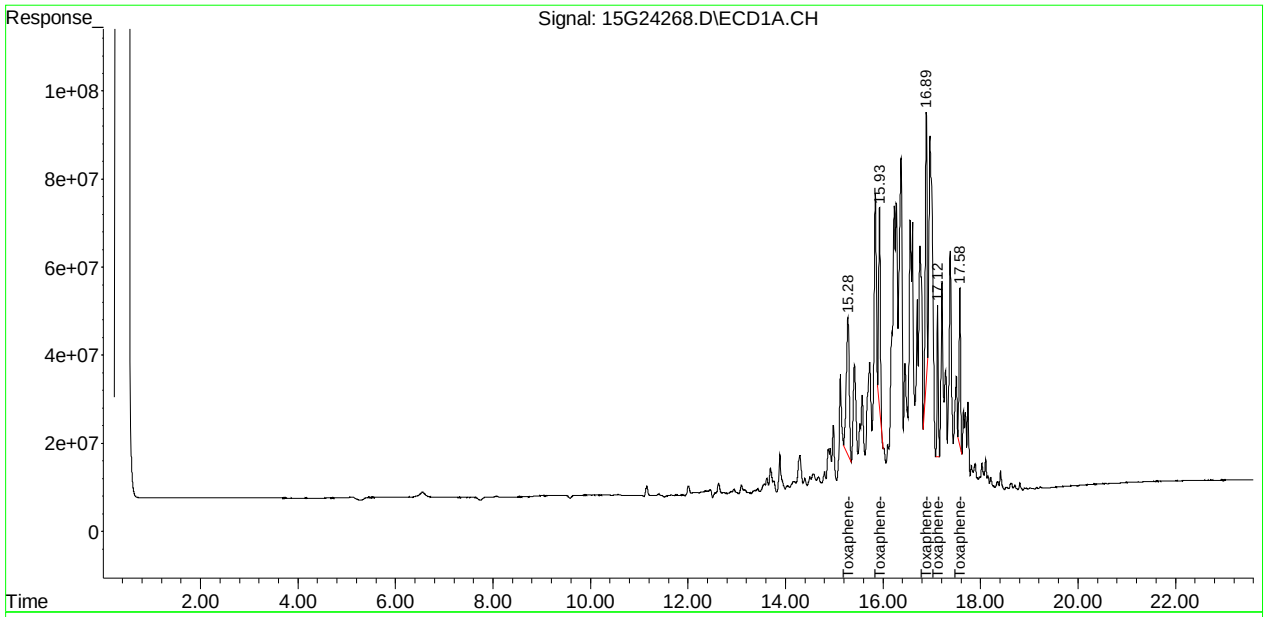
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

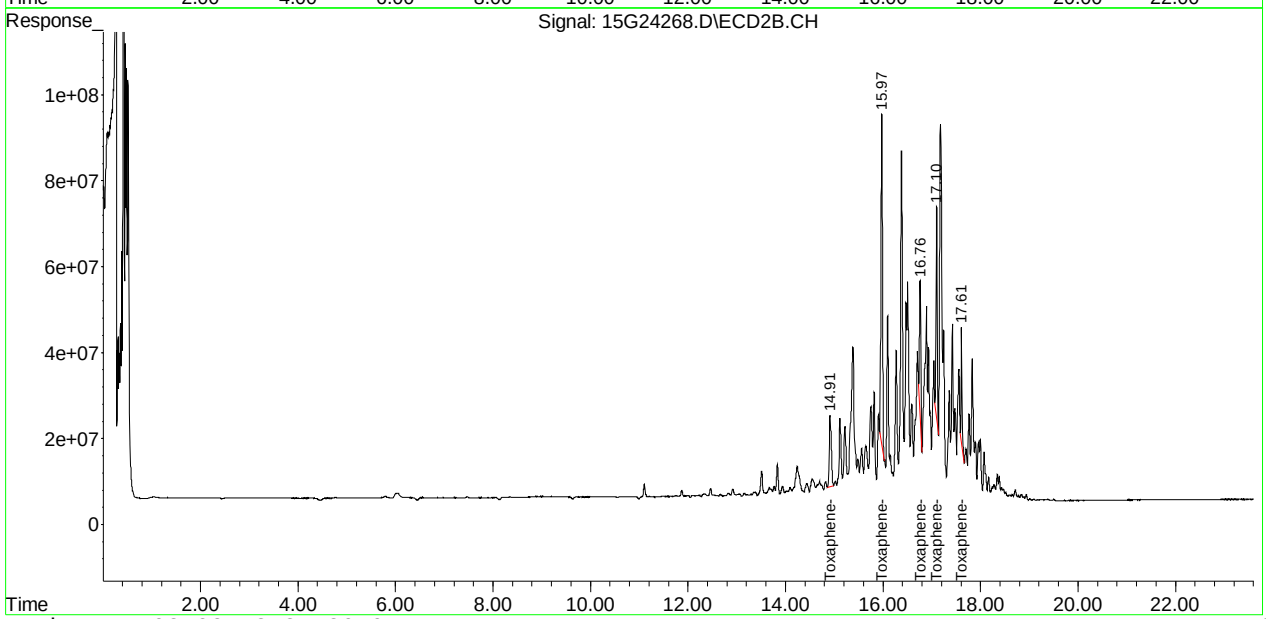
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\120110\
Data File : 15G24268.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2010 15:24 (#1); 01 Dec 2010 15:52 (#2)
Operator : ECL
Sample : WG350178-01 TOX CCV 500 PPB
Misc : 1,1 STD40827
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Dec 02 08:42:22 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Mon Nov 01 10:42:47 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\120110\
Data File : 15G24279.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2010 20:35 (#1); 01 Dec 2010 21:03 (#2)
Operator : ECL
Sample : WG350177-03 PEST CCV 10 PPB
Misc : 1,1 STD40207
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 02 08:48:09 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 02 08:47:10 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.26	9.17	1207.8E6	914.3E6	10.620	9.580
	Spiked Amount	20.000	Range 30 - 132		Recovery =	53.10%	47.90%
22) S	Decachlorobiphen	18.62	18.89	936.6E6	522.4E6	11.688	8.882
	Spiked Amount	20.000	Range 36 - 144		Recovery =	58.44%	44.41%
	Target Compounds						
2)	alpha-BHC	10.55	10.53	1732.1E6	1339.1E6	10.378	9.663
3)	gamma-BHC	11.22	11.27	1628.4E6	1273.5E6	10.445	9.018
4)	beta-BHC	11.42	11.45	745.8E6	572.2E6	10.679	8.885
5)	Heptachlor	12.17	12.12	1596.3E6	1309.1E6	10.535	9.598
6)	delta-BHC	11.76	12.01	1638.3E6	1379.1E6	10.706	9.868
7)	Aldrin	12.74	12.73	1419.9E6	1191.6E6	9.144	9.714
8)	Heptachlor Epoxi	13.85	13.78	1443.0E6	1058.2E6	10.165	10.046
9)	gamma-Chlordane	14.07	14.12	1437.0E6	1113.5E6	9.694	9.791
10)	alpha-Chlordane	14.31	14.38	1353.3E6	1061.5E6	9.959	9.660
11)	Endosulfan I	14.54	14.47	1235.5E6	950.2E6	9.935	10.202
12)	4,4'-DDE	14.46	14.68	1250.3E6	990.9E6	9.790	9.465
13)	Dieldrin	14.96	14.95	1246.0E6	1051.4E6	10.037	9.637
14)	Endrin	15.35	15.47	1169.1E6	859.8E6	9.632	9.320
15)	4,4'-DDD	15.48	15.68	1027.3E6	830.7E6	9.893	9.585
16)	Endosulfan II	15.73	15.84	1112.1E6	886.6E6	9.361	9.586
17)	4,4'-DDT	15.95	16.19	1034.4E6	769.9E6	8.748	8.555
18)	Endrin Aldehyde	16.39	16.37	807.5E6	623.5E6	8.858	8.754
19)	Endosulfan Sulfa	17.02	16.77	880.2E6	754.5E6	9.206	10.467
20)	Methoxychlor	16.69	17.16	509.1E6	363.2E6	9.019	8.152
21)	Endrin Ketone	17.39	17.48	1037.2E6	799.7E6	9.519	9.913

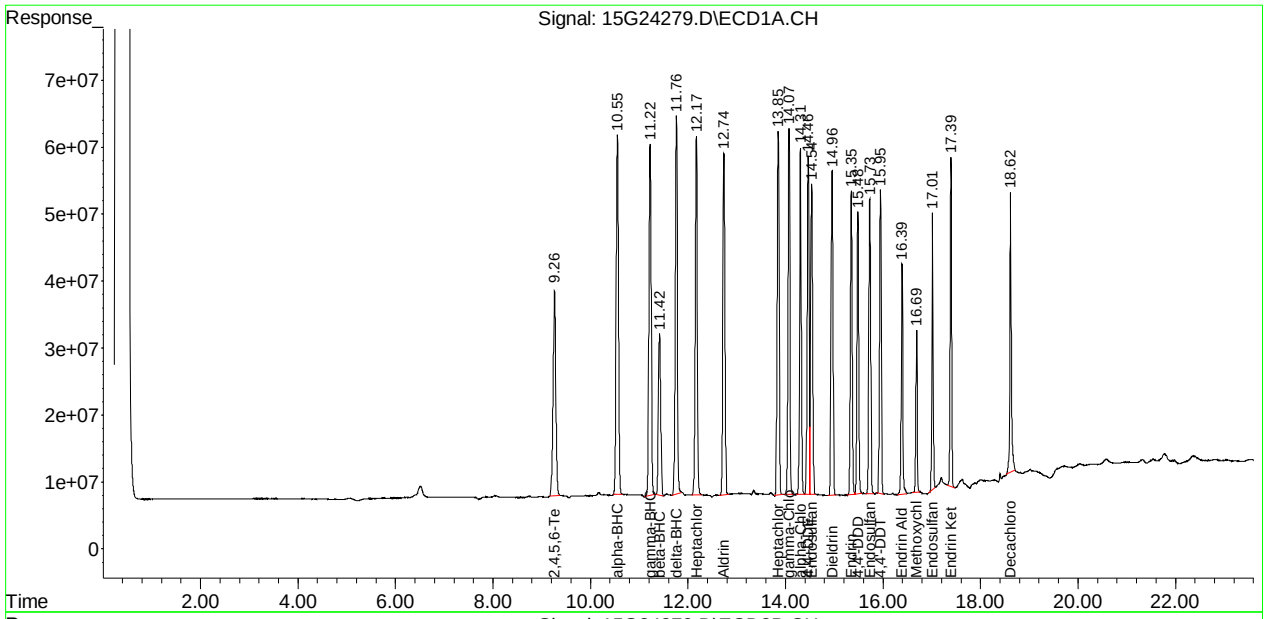
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\120110\
Data File : 15G24279.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2010 20:35 (#1); 01 Dec 2010 21:03 (#2)
Operator : ECL
Sample : WG350177-03 PEST CCV 10 PPB
Misc : 1,1 STD40207
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 02 08:48:09 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 02 08:47:10 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\120110\
Data File : 15G24280.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2010 21:03 (#1); 01 Dec 2010 21:32 (#2)
Operator : ECL
Sample : WG350178-02 TOX CCV 200 PPB
Misc : 1,1 STD40827
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Dec 02 08:43:07 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Mon Nov 01 10:42:47 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	Target Compounds						
1)	L1 Toxaphene-1	15.27	14.91	453.3E6	204.2E6	199.504	213.850
2)	L1 Toxaphene-2	15.92	15.97	347.1E6	601.6E6	198.056	188.477
3)	L1 Toxaphene-3	16.88	16.76	579.6E6	182.6E6	197.441	189.757
4)	L1 Toxaphene-4	17.12	17.10	262.4E6	410.3E6	197.594	188.213
5)	L1 Toxaphene-5	17.57	17.61	243.4E6	163.7E6	179.006	183.890
	Sum Toxaphene-1			1885.8E6	1562.4E6	971.601	964.186
Average	Toxaphene-1					194.320	192.837

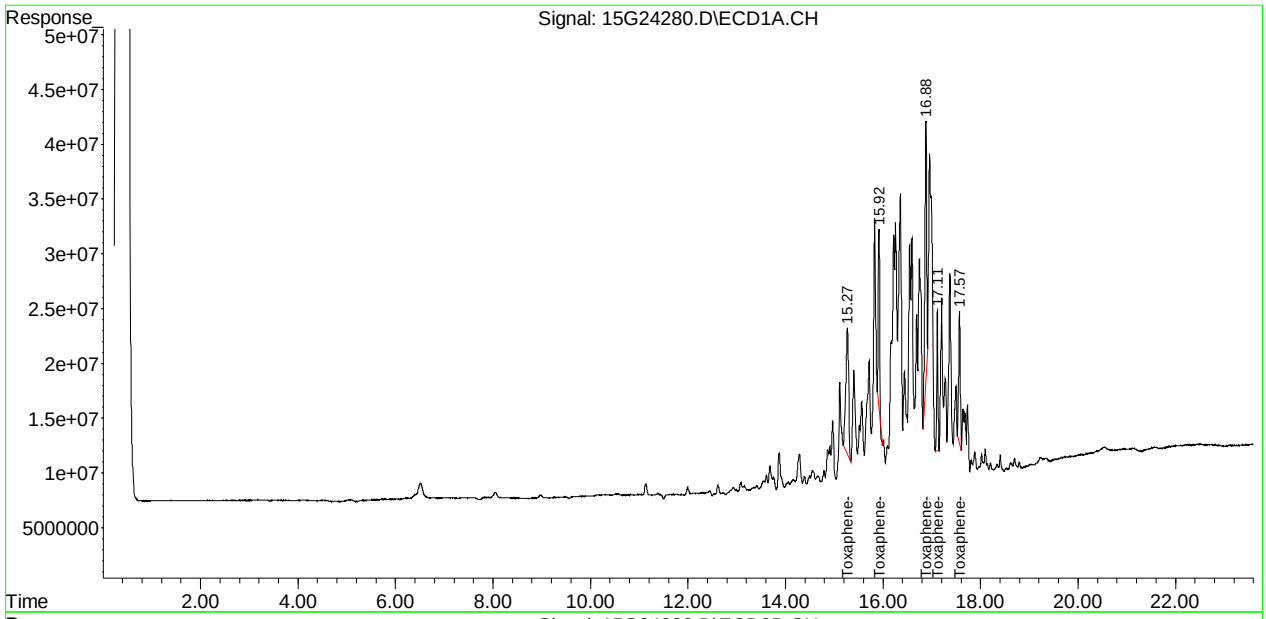
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

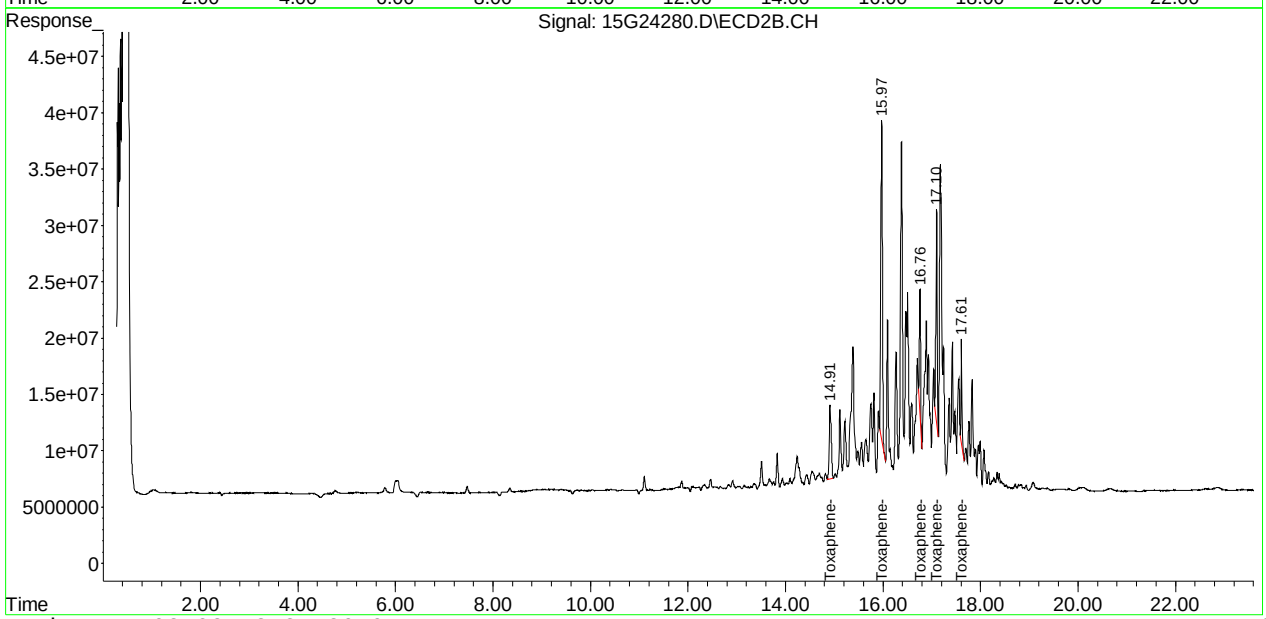
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\120110\
Data File : 15G24280.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2010 21:03 (#1); 01 Dec 2010 21:32 (#2)
Operator : ECL
Sample : WG350178-02 TOX CCV 200 PPB
Misc : 1,1 STD40827
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Dec 02 08:43:07 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Mon Nov 01 10:42:47 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





TOX.M Thu Dec 02 08:43:21 2010 Page: 2

Data Path : C:\MSDChem\1\DATA\120110\
Data File : 15G24286.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2010 23:53 (#1); 02 Dec 2010 00:21 (#2)
Operator : ECL
Sample : WG350177-05 PEST CCV 20 PPB
Misc : 1,1 STD40207
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 02 08:45:37 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Mon Nov 01 10:45:39 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.26	9.17	2380.5E6	1753.8E6	20.932	18.375
	Spiked Amount	20.000	Range 30 - 132		Recovery =	104.66%	91.88%
22) S	Decachlorobiphen	18.62	18.89	1432.9E6	981.8E6	17.882	17.658
	Spiked Amount	20.000	Range 36 - 144		Recovery =	89.41%	88.29%
	Target Compounds						
2)	alpha-BHC	10.55	10.53	3604.7E6	2623.5E6	21.597	18.930
3)	gamma-BHC	11.22	11.27	3378.2E6	2512.7E6	21.669	17.793
4)	beta-BHC	11.42	11.45	1488.3E6	1099.0E6	21.311	17.065
5)	Heptachlor	12.17	12.12	3196.7E6	2552.5E6	21.096	18.713
6)	delta-BHC	11.76	12.01	3413.6E6	2753.5E6	22.307	19.701
7)	Aldrin	12.74	12.73	2887.6E6	2341.7E6	18.596	19.090
8)	Heptachlor Epoxi	13.85	13.78	2951.6E6	1901.6E6	20.793	18.052
9)	gamma-Chlordane	14.07	14.12	3010.6E6	2180.1E6	20.310	19.168
10)	alpha-Chlordane	14.31	14.38	2734.1E6	2063.8E6	20.120	18.782
11)	Endosulfan I	14.54	14.47	2509.4E6	1739.1E6	20.178	18.672
12)	4,4'-DDE	14.46	14.68	2701.8E6	1974.8E6	21.155	18.864
13)	Dieldrin	14.96	14.95	2510.3E6	2082.7E6	20.220	19.089
14)	Endrin	15.35	15.47	2472.7E6	1635.0E6	20.372	17.723
15)	4,4'-DDD	15.48	15.68	2202.0E6	1664.8E6	21.205	19.208
16)	Endosulfan II	15.73	15.84	2299.7E6	1737.1E6	19.357	18.781
17)	4,4'-DDT	15.94	16.18	2271.1E6	1571.3E6	19.207	17.461
18)	Endrin Aldehyde	16.39	16.37	1742.1E6	1183.7E6	19.112	16.619
19)	Endosulfan Sulfa	17.02	16.77	1906.3E6	1492.1E6	19.938	20.701
20)	Methoxychlor	16.69	17.16	1060.4E6	709.0E6	18.788	15.912
21)	Endrin Ketone	17.39	17.48	2153.4E6	1591.1E6	19.763	19.724

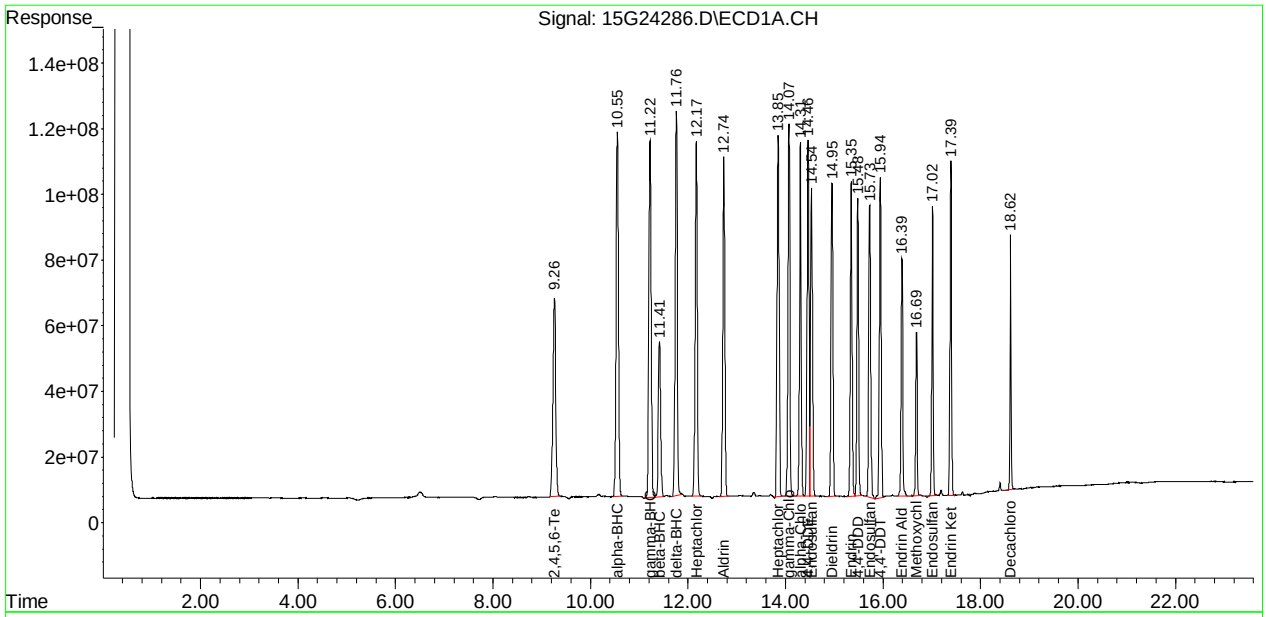
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\120110\
Data File : 15G24286.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2010 23:53 (#1); 02 Dec 2010 00:21 (#2)
Operator : ECL
Sample : WG350177-05 PEST CCV 20 PPB
Misc : 1,1 STD40207
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 02 08:45:37 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Mon Nov 01 10:45:39 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\120110\
Data File : 15G24287.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2010 00:21 (#1); 02 Dec 2010 00:50 (#2)
Operator : ECL
Sample : WG350178-03 TOX CCV 500 PPB
Misc : 1,1 STD40827
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Dec 02 08:42:48 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Mon Nov 01 10:42:47 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	Target Compounds						
1)	L1 Toxaphene-1	15.27	14.91	1199.5E6	502.1E6	527.937	525.905
2)	L1 Toxaphene-2	15.92	15.97	884.9E6	1516.8E6	504.892	475.214
3)	L1 Toxaphene-3	16.88	16.76	1495.2E6	473.2E6	509.346	491.732
4)	L1 Toxaphene-4	17.11	17.10	689.9E6	967.6E6	519.484	443.852
5)	L1 Toxaphene-5	17.57	17.61	650.3E6	405.0E6	478.284	454.902
	Sum Toxaphene-1			4919.8E6	3864.7E6	2539.944	2391.606
Average	Toxaphene-1					507.989	478.321

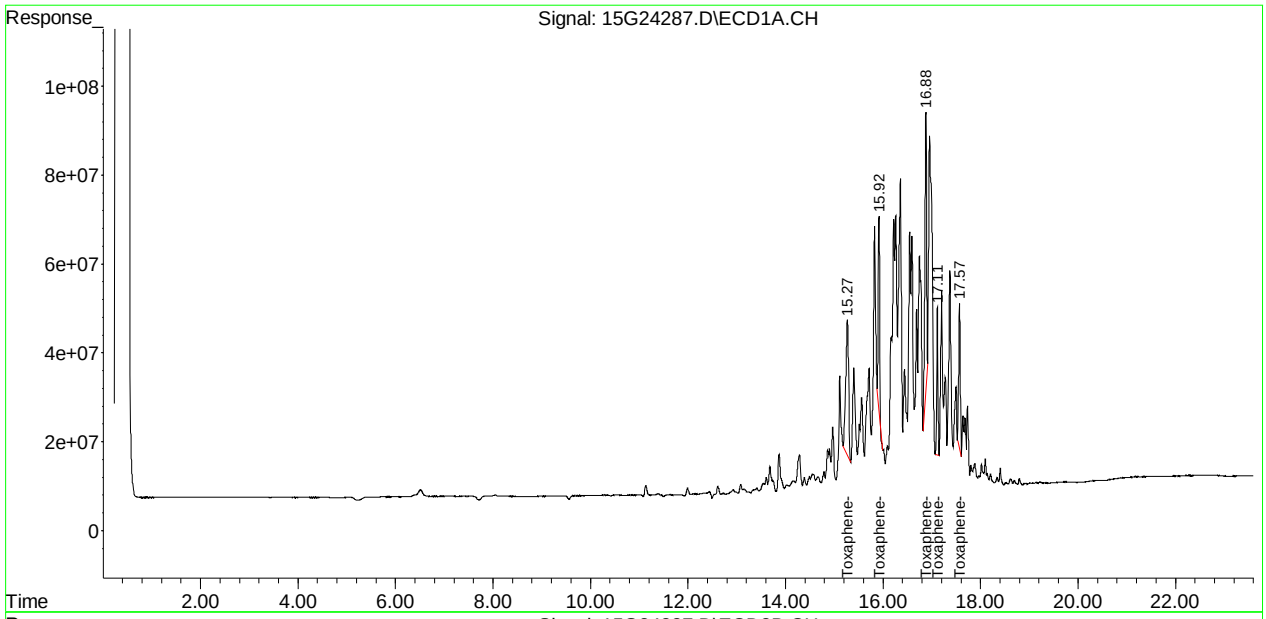
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

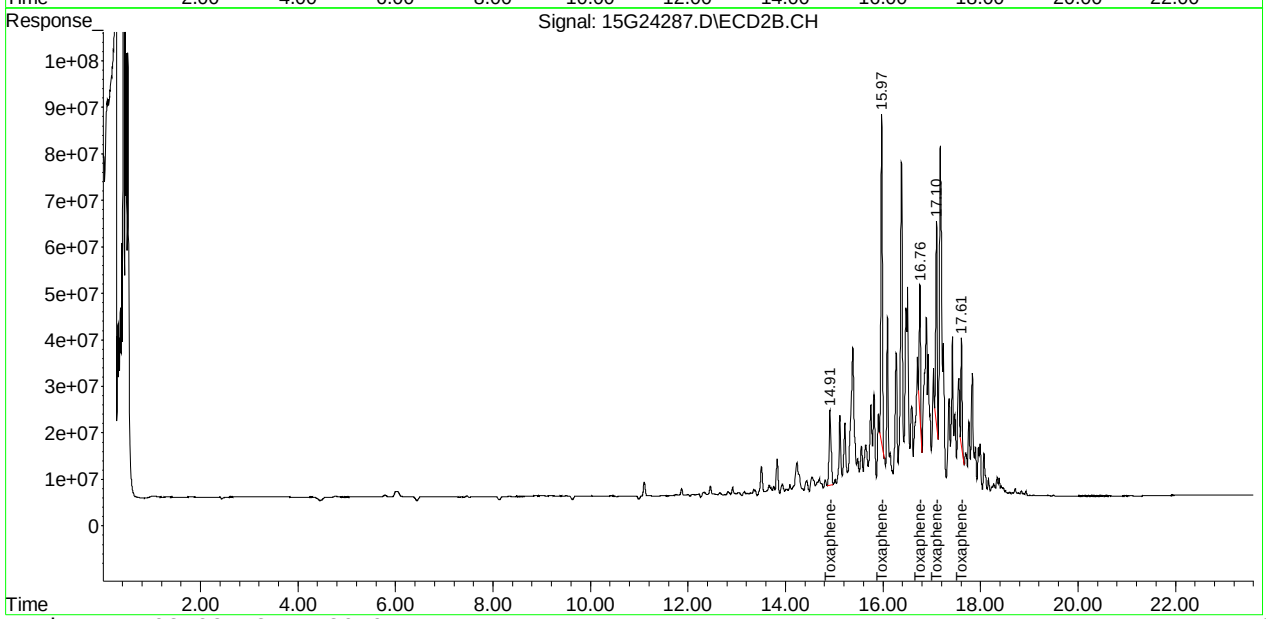
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\120110\
Data File : 15G24287.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2010 00:21 (#1); 02 Dec 2010 00:50 (#2)
Operator : ECL
Sample : WG350178-03 TOX CCV 500 PPB
Misc : 1,1 STD40827
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Dec 02 08:42:48 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Mon Nov 01 10:42:47 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\120110\
Data File : 15G24266.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2010 13:29 (#1); 01 Dec 2010 13:58 (#2)
Operator : ECL
Sample : WG350177-01 ENDRIN/DDT
Misc : 1,1 STD39983
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 01 15:22:29 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Mon Nov 01 10:45:39 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount	20.000	Range 30 - 132	Recovery	=	0.00%#	0.00%#
22) S	Decachlorobiphen	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount	20.000	Range 36 - 144	Recovery	=	0.00%#	0.00%#
	Target Compounds						
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.
5)	Heptachlor	0.00	0.00	0	0	N.D.	N.D.
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.
9)	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11)	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
12)	4,4'-DDE	14.47	14.68	109.3E6	84770634	0.856	0.810
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
14)	Endrin	15.35	15.48	6250.4E6	4203.2E6	51.495	45.562
15)	4,4'-DDD	15.49	15.68	162.0E6	105.9E6	1.560	1.222
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.
17)	4,4'-DDT	15.95	16.19	5729.8E6	4195.4E6	48.457	46.619
18)	Endrin Aldehyde	16.39	16.37	130.5E6	127.8E6	1.431	1.794 #
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.
21)	Endrin Ketone	17.39	17.48	265.6E6	243.5E6	2.438	3.018

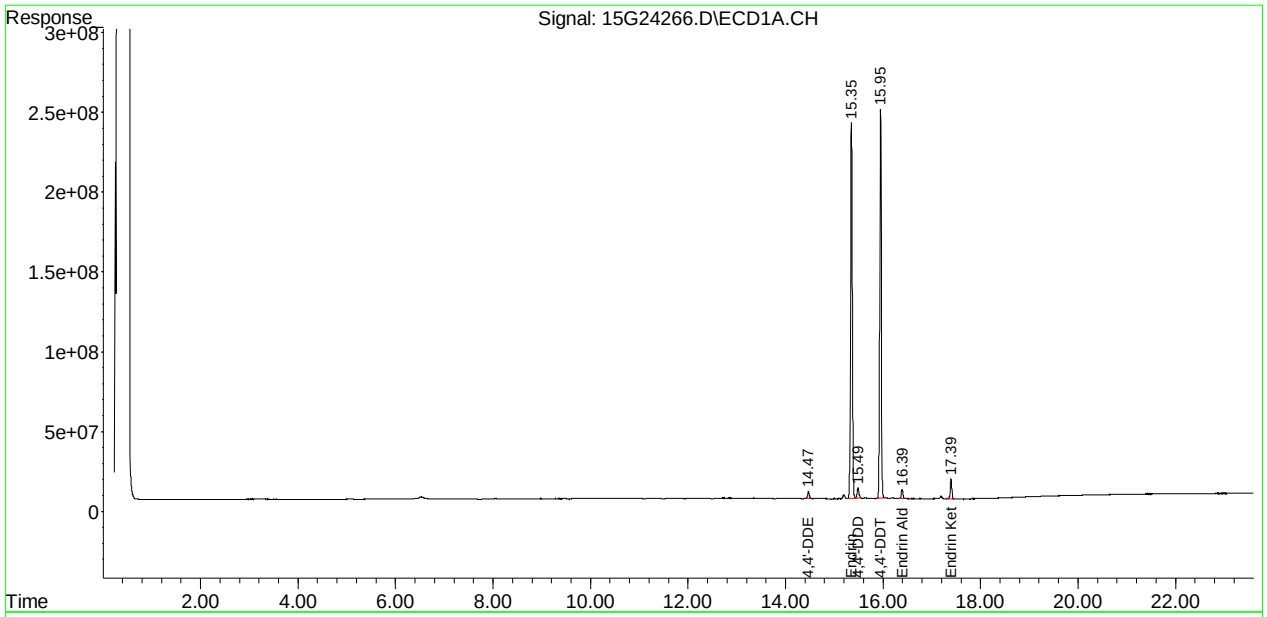
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

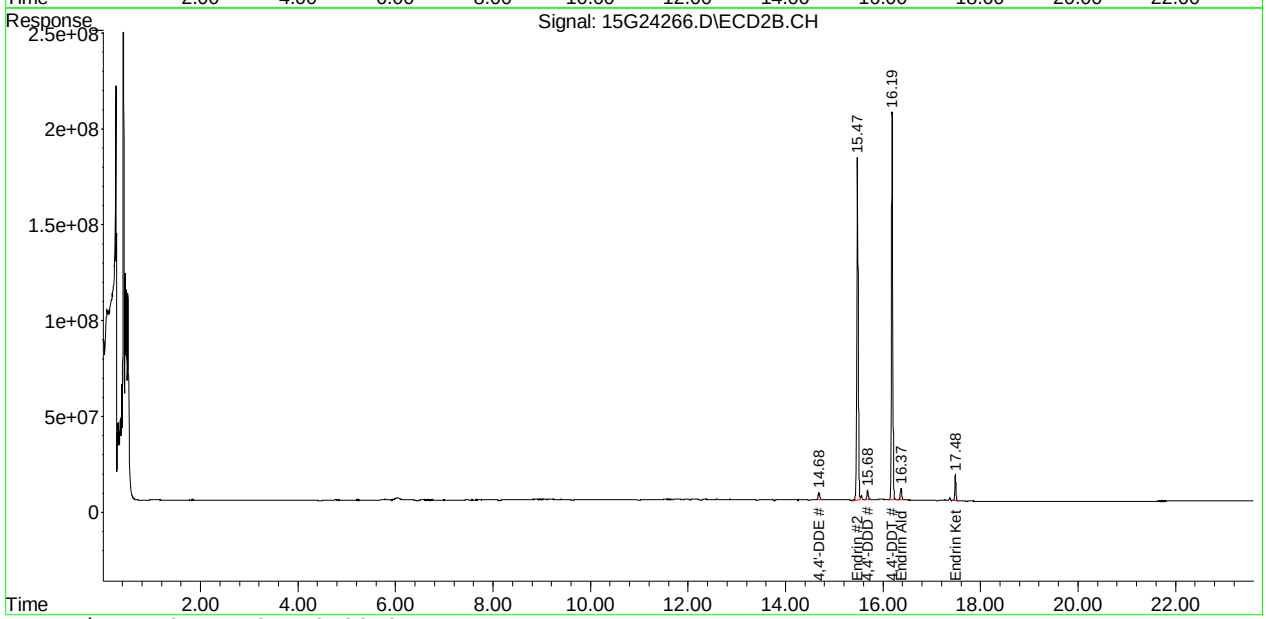
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\120110\
Data File : 15G24266.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2010 13:29 (#1); 01 Dec 2010 13:58 (#2)
Operator : ECL
Sample : WG350177-01 ENDRIN/DDT
Misc : 1,1 STD39983
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 01 15:22:29 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Mon Nov 01 10:45:39 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\120110\
Data File : 15G24285.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2010 23:25 (#1); 01 Dec 2010 23:53 (#2)
Operator : ECL
Sample : WG350177-04 ENDRIN/DDT
Misc : 1,1 STD39983
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 02 08:43:34 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Mon Nov 01 10:45:39 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount	20.000	Range 30 - 132	Recovery	=	0.00%#	0.00%#
22) S	Decachlorobiphen	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount	20.000	Range 36 - 144	Recovery	=	0.00%#	0.00%#
	Target Compounds						
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.
5)	Heptachlor	0.00	0.00	0	0	N.D.	N.D.
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.
9)	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11)	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
12)	4,4'-DDE	14.46	14.68	90794645	70129075	0.711	0.670
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
14)	Endrin	15.35	15.47	5836.2E6	4095.9E6	48.082	44.399
15)	4,4'-DDD	15.48	15.68	108.5E6	74898549	1.044	0.864
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.
17)	4,4'-DDT	15.94	16.18	5134.4E6	3728.8E6	43.422	41.434
18)	Endrin Aldehyde	0.00	16.37	0	46612275	N.D.	0.654 #
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.
21)	Endrin Ketone	17.39	17.48	142.0E6	133.7E6	1.303	1.658 #

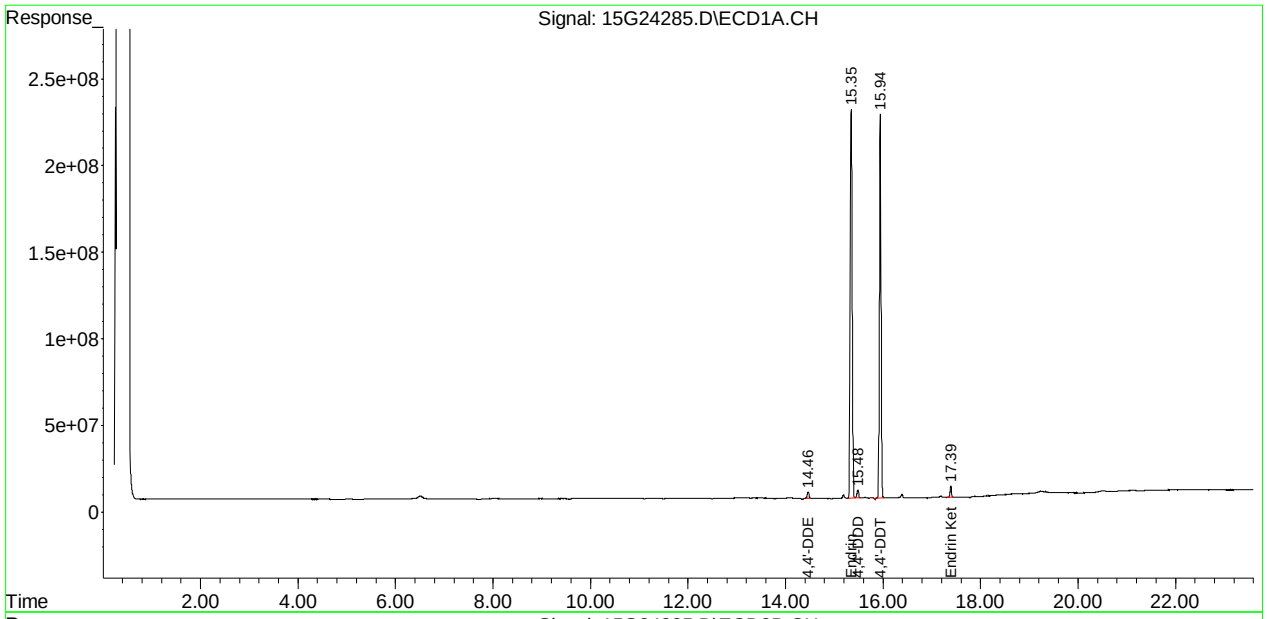
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

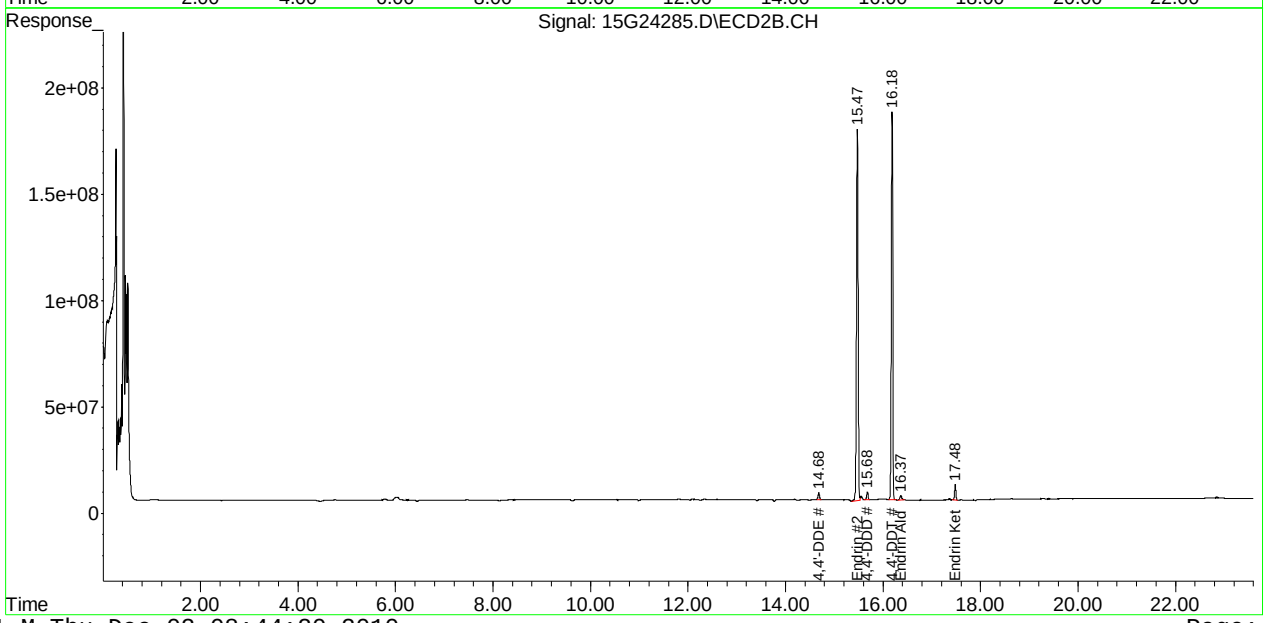
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\120110\
Data File : 15G24285.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2010 23:25 (#1); 01 Dec 2010 23:53 (#2)
Operator : ECL
Sample : WG350177-04 ENDRIN/DDT
Misc : 1,1 STD39983
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 02 08:43:34 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Mon Nov 01 10:45:39 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





RETENTION TIME WINDOWS

Lab Name: Microbac Laboratories

Instrument ID: HP 15

GC Column: RTx-CLP (Front)

	STANDARD #1	STANDARD #2	STANDARD #3
Date Run	8/27/09	8/28/09	9/1/09
File #	15G18733	15G18777	15G18817

COMPOUND	STD #1 RT	STD #2 RT	STD #3 RT	RT WIN
alpha-BHC	10.90	10.89	10.89	0.017
gamma-BHC	11.58	11.57	11.56	0.030
beta-BHC	11.77	11.76	11.75	0.030
Heptachlor	12.53	12.51	12.51	0.035
delta-BHC	12.12	12.11	12.10	0.030
Aldrin	13.09	13.08	13.08	0.017
Heptachlor Epoxide	14.22	14.21	14.20	0.030
gamma-Chlordane	14.44	14.43	14.42	0.030
alpha-Chlordane	14.67	14.66	14.66	0.017
Endosulfan I	14.91	14.90	14.90	0.017
4,4'-DDE	14.82	14.81	14.80	0.030
Dieldrin	15.33	15.32	15.31	0.030
Endrin	15.73	15.72	15.71	0.030
4,4'-DDD	15.84	15.83	15.83	0.017
Endosulfan II	16.09	16.09	16.08	0.017
4,4'-DDT	16.28	16.27	16.27	0.017
Endrin Aldehyde	16.73	16.73	16.72	0.017
Endosulfan Sulfate	17.34	17.34	17.33	0.017
Methoxychlor	16.99	16.98	16.97	0.030
Endrin Ketone	17.71	17.70	17.70	0.017
2,4,5,6-Tetrachloro-M-Xylene	9.60	9.59	9.59	0.017
Decachlorobiphenyl	18.89	18.89	18.88	0.017

RETENTION TIME WINDOWS

Lab Name: Microbac Laboratories

Instrument ID: HP 15
GC Column: RTx-CLP II (Rear)

	STANDARD #1	STANDARD #2	STANDARD #3
Date Run	8/27/09	8/28/09	9/1/09
File #	15G18733	15G18777	15G18817

COMPOUND	STD #1 RT	STD #2 RT	STD #3 RT	RT WIN
alpha-BHC	10.70	10.70	10.70	0.000
gamma-BHC	11.44	11.44	11.43	0.017
beta-BHC	11.61	11.61	11.61	0.000
Heptachlor	12.30	12.30	12.29	0.017
delta-BHC	12.18	12.19	12.18	0.017
Aldrin	12.91	12.91	12.90	0.017
Heptachlor Epoxide	13.96	13.97	13.96	0.017
gamma-Chlordane	14.30	14.30	14.30	0.000
alpha-Chlordane	14.56	14.56	14.56	0.000
Endosulfan I	14.66	14.66	14.66	0.000
4,4'-DDE	14.87	14.87	14.86	0.017
Dieldrin	15.14	15.14	15.14	0.000
Endrin	15.67	15.67	15.67	0.000
4,4'-DDD	15.86	15.86	15.86	0.000
Endosulfan II	16.02	16.02	16.01	0.017
4,4'-DDT	16.35	16.35	16.35	0.000
Endrin Aldehyde	16.54	16.54	16.53	0.017
Endosulfan Sulfate	16.93	16.93	16.93	0.000
Methoxychlor	17.30	17.30	17.30	0.000
Endrin Ketone	17.63	17.63	17.63	0.000
2,4,5,6-Tetrachloro-M-Xylene	9.33	9.33	9.33	0.000
Decachlorobiphenyl	19.03	19.03	19.03	0.000

2.1.1.5 Raw QC Data

Data Path : C:\MSDCHEM\1\DATA\120110\
Data File : 15G24270.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2010 16:21 (#1); 01 Dec 2010 16:49 (#2)
Operator : ECL
Sample : WG349954-02 BLANK
Misc : 7,1 SOIL
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 02 08:49:44 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 02 08:47:10 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

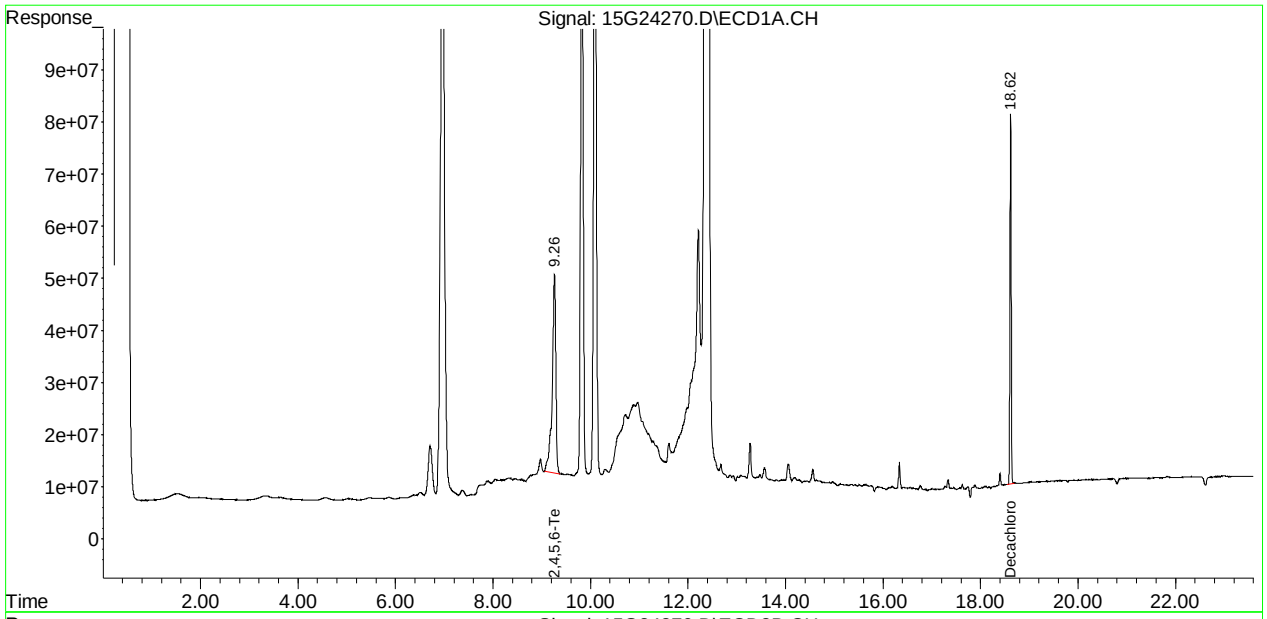
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.26	9.17	1912.1E6	1124.2E6	16.813	11.778 #
	Spiked Amount	20.000	Range 29 - 133		Recovery =	84.06%	58.89%
22) S	Decachlorobiphen	18.62	18.89	1331.4E6	942.2E6	16.615	16.900
	Spiked Amount	20.000	Range 30 - 173		Recovery =	83.07%	84.50%
	Target Compounds						
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.
5)	Heptachlor	0.00	12.10f	0	72280634	N.D.	0.530 #
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.
9)	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11)	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
12)	4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
14)	Endrin	0.00	0.00	0	0	N.D.	N.D.
15)	4,4'-DDD	0.00	0.00	0	0	N.D.	N.D.
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.
17)	4,4'-DDT	0.00	0.00	0	0	N.D.	N.D.
18)	Endrin Aldehyde	0.00	0.00	0	0	N.D.	N.D.
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.
21)	Endrin Ketone	0.00	0.00	0	0	N.D.	N.D.

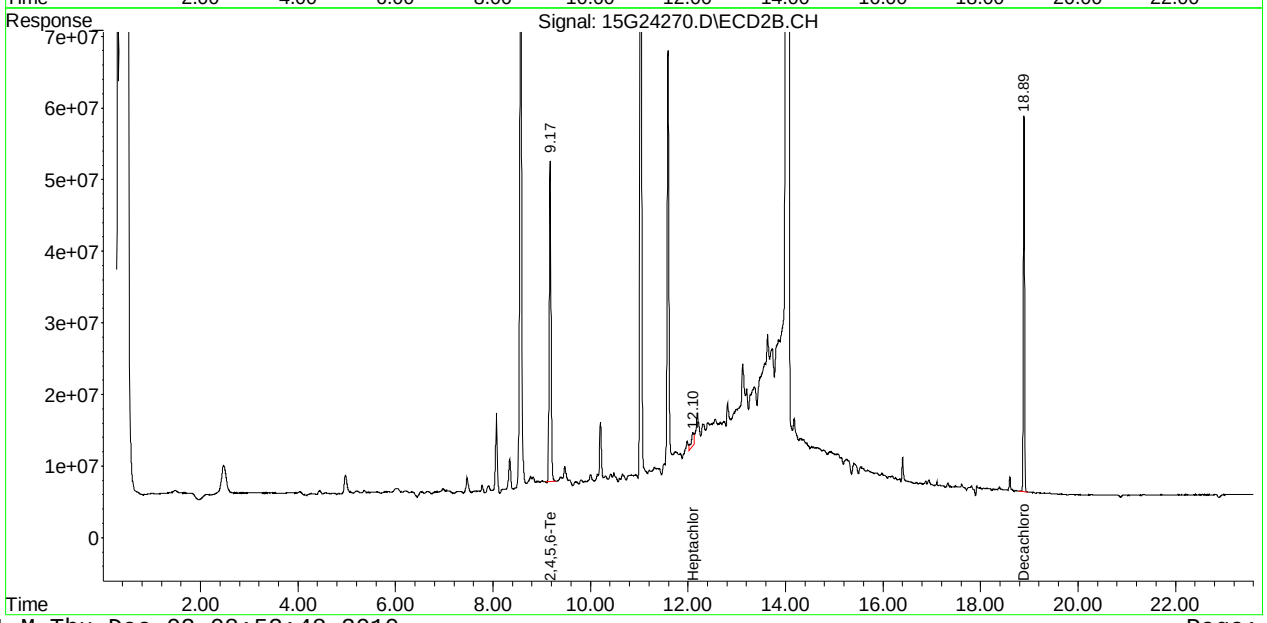
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\120110\
Data File : 15G24270.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2010 16:21 (#1); 01 Dec 2010 16:49 (#2)
Operator : ECL
Sample : WG349954-02 BLANK
Misc : 7,1 SOIL
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 02 08:49:44 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 02 08:47:10 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\120110\
Data File : 15G24271.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2010 16:49 (#1); 01 Dec 2010 17:17 (#2)
Operator : ECL
Sample : WG349954-03 LCS
Misc : 7,1 SOIL
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 02 08:49:54 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 02 08:47:10 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

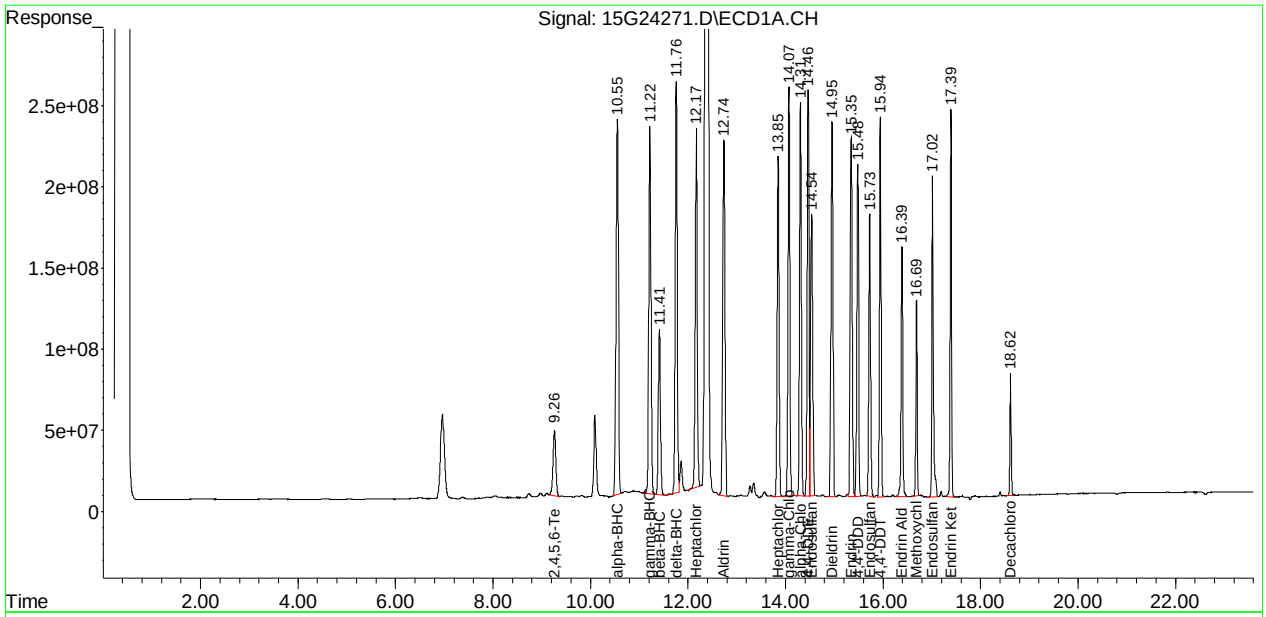
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.26	9.17	1600.9E6	1225.0E6	14.076	12.834
	Spiked Amount	20.000	Range 29 - 133		Recovery =	70.38%	64.17%
22) S	Decachlorobiphen	18.62	18.89	1395.3E6	993.6E6	17.412	17.882
	Spiked Amount	20.000	Range 30 - 173		Recovery =	87.06%	89.41%
	Target Compounds						
2)	alpha-BHC	10.55	10.53	7489.2E6	5566.6E6	44.870	40.167
3)	gamma-BHC	11.22	11.27	7110.4E6	5431.3E6	45.609	38.459
4)	beta-BHC	11.41	11.45	3079.1E6	2130.0E6	44.088	33.074
5)	Heptachlor	12.17	12.12	6592.1E6	5527.4E6	43.503	40.524
6)	delta-BHC	11.76	12.02	7336.8E6	5945.1E6	47.945	42.538
7)	Aldrin	12.74	12.73	6224.5E6	4962.7E6	40.087	40.456
8)	Heptachlor Epoxi	13.85	13.78	5601.7E6	4177.5E6	39.462	39.657
9)	gamma-Chlordane	14.07	14.12	6601.2E6	5013.3E6	44.532	44.078
10)	alpha-Chlordane	14.31	14.38	6283.5E6	4807.5E6	46.239	43.752
11)	Endosulfan I	14.54	14.47	4679.1E6	3418.5E6	37.624	36.704
12)	4,4'-DDE	14.46	14.68	6296.0E6	4782.0E6	49.299	45.679
13)	Dieldrin	14.95	14.95	6060.4E6	4771.2E6	48.816	43.730
14)	Endrin	15.35	15.47	5800.5E6	4240.4E6	47.788	45.965
15)	4,4'-DDD	15.48	15.68	5003.1E6	3954.5E6	48.178	45.628
16)	Endosulfan II	15.73	15.84	4420.6E6	3499.7E6	37.209	37.838
17)	4,4'-DDT	15.95	16.19	5437.2E6	4195.5E6	45.983	46.620
18)	Endrin Aldehyde	16.39	16.37	3717.3E6	2682.6E6	40.782	37.663
19)	Endosulfan Sulfa	17.02	16.77	4760.3E6	3428.8E6	49.788	47.569
20)	Methoxychlor	16.69	17.16	2535.5E6	2254.6E6	44.921	50.601
21)	Endrin Ketone	17.39	17.48	5083.8E6	3828.3E6	46.658	47.459

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\120110\
Data File : 15G24271.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2010 16:49 (#1); 01 Dec 2010 17:17 (#2)
Operator : ECL
Sample : WG349954-03 LCS
Misc : 7,1 SOIL
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 02 08:49:54 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 02 08:47:10 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\120110\
Data File : 15G24272.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2010 17:17 (#1); 01 Dec 2010 17:45 (#2)
Operator : ECL
Sample : WG349954-04 TOX LCS
Misc : 7,1 SOIL
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Dec 02 11:37:02 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Mon Nov 01 10:42:47 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	Target Compounds						
1)	L1 Toxaphene-1	15.27	14.91	352.7E6	153.2E6	155.211	160.412
2)	L1 Toxaphene-2	15.92	15.97	286.5E6	492.3E6	163.453	154.253
3)	L1 Toxaphene-3	16.88	16.76	499.0E6	160.6E6	169.980	166.877
4)	L1 Toxaphene-4	17.12	17.10	218.4E6	349.5E6	164.472	160.316
5)	L1 Toxaphene-5	17.57	17.61	218.4E6	165.2E6	160.601	185.541
	Sum Toxaphene-1			1574.9E6	1320.7E6	813.717	827.398
Average	Toxaphene-1					162.743	165.480

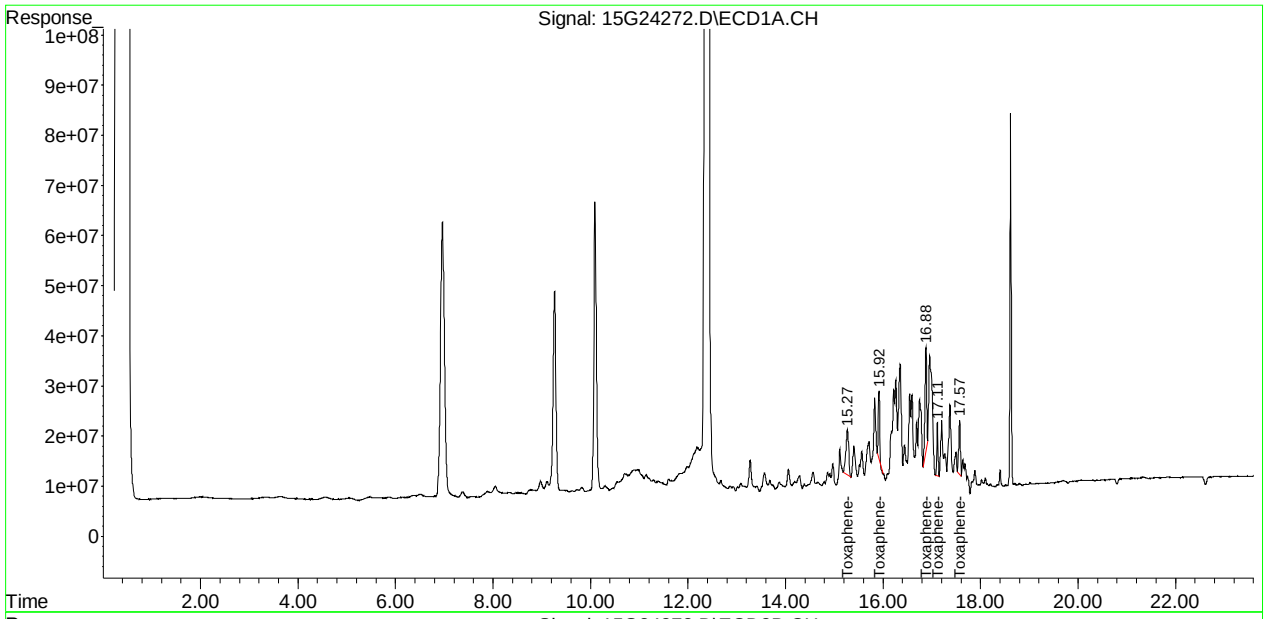
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

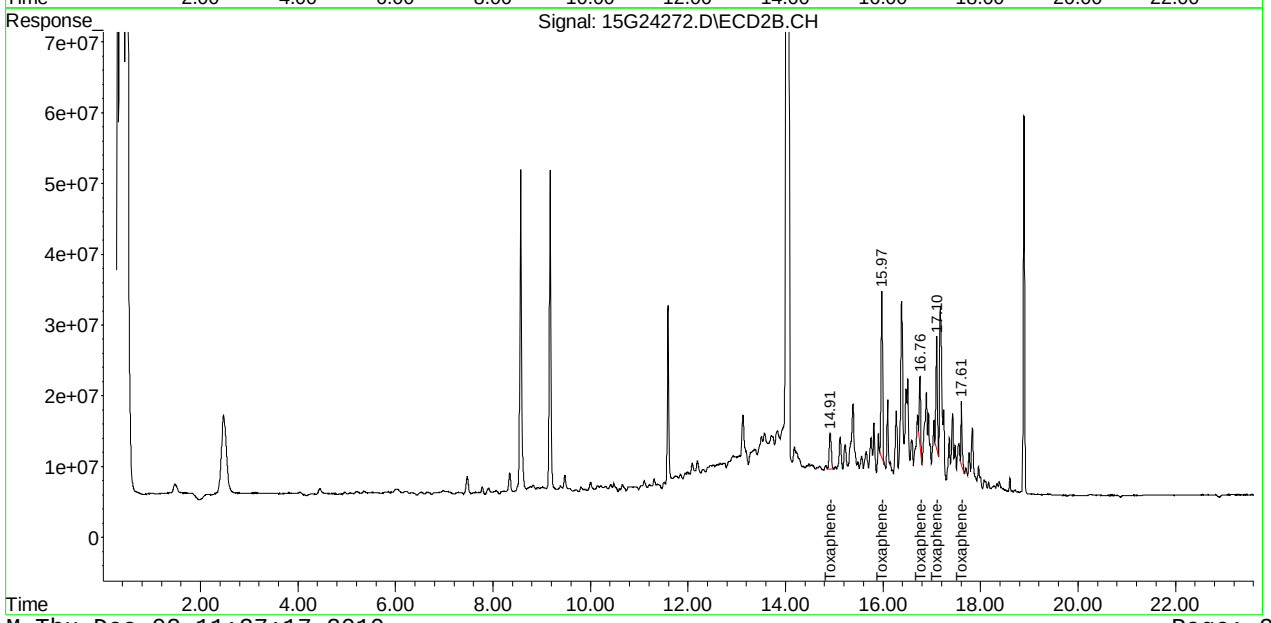
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\120110\
Data File : 15G24272.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2010 17:17 (#1); 01 Dec 2010 17:45 (#2)
Operator : ECL
Sample : WG349954-04 TOX LCS
Misc : 7,1 SOIL
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Dec 02 11:37:02 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Mon Nov 01 10:42:47 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





TOX.M Thu Dec 02 11:37:17 2010 Page: 2

Data Path : C:\MSDCHEM\1\DATA\120110\
Data File : 15G24282.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2010 22:00 (#1); 01 Dec 2010 22:28 (#2)
Operator : ECL
Sample : WG349954-05 L10110846-04 MS
Misc : 7,1 SOIL
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 02 08:52:01 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 02 08:47:10 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.26	9.17	2021.5E6	1391.7E6	17.775	14.581
	Spiked Amount	20.000	Range 29 - 133		Recovery =	88.88%	72.91%
22) S	Decachlorobiphen	18.62	18.89	1257.8E6	1055.5E6	15.696	19.066
	Spiked Amount	20.000	Range 30 - 173		Recovery =	78.48%	95.33%
	Target Compounds						
2)	alpha-BHC	10.55	10.53	6941.2E6	4433.0E6	41.587	31.987
3)	gamma-BHC	11.22	11.27	17070.4E6	4751.4E6	109.496	33.645 #
4)	beta-BHC	11.42	11.45	4933.9E6	2015.0E6	70.646	31.288 #
5)	Heptachlor	12.17	12.12	47859.6E6	5584.6E6	315.841	40.943 #
6)	delta-BHC	11.76	12.02	7053.1E6	4581.5E6	46.091	32.781 #
7)	Aldrin	12.74	12.73	5041.3E6	4224.2E6	32.467	34.436
8)	Heptachlor Epoxi	13.85	0.00	5310.5E6	0	37.411	N.D. #
9)	gamma-Chlordane	14.07	14.12	5850.7E6	1197.5E6	39.470	10.529 #
10)	alpha-Chlordane	14.31	14.38	5598.7E6	3856.3E6	41.200	35.095
11)	Endosulfan I	14.54	14.47	4374.3E6	2540.6E6	35.174	27.278
12)	4,4'-DDE	14.46	14.68	5726.0E6	3980.9E6	44.835	38.026
13)	Dieldrin	14.96	14.95	6491.8E6	5208.5E6	52.290	47.738
14)	Endrin	15.35	15.47	5741.8E6	4041.8E6	47.304	43.812
15)	4,4'-DDD	15.48	15.68	6075.0E6	2969.7E6	58.501	34.266 #
16)	Endosulfan II	15.73	15.84	3299.1E6	2267.8E6	27.770	24.519
17)	4,4'-DDT	15.95	16.18	4584.3E6	3602.2E6	38.769	40.027
18)	Endrin Aldehyde	16.39	16.37	1400.6E6	1157.3E6	15.365	16.249
19)	Endosulfan Sulfa	17.02	16.77	2432.5E6	1871.7E6	25.441	25.967
20)	Methoxychlor	16.69	17.16	1676.8E6	1498.7E6	29.707	33.636
21)	Endrin Ketone	17.39	17.48	3273.0E6	2518.9E6	30.039	31.226

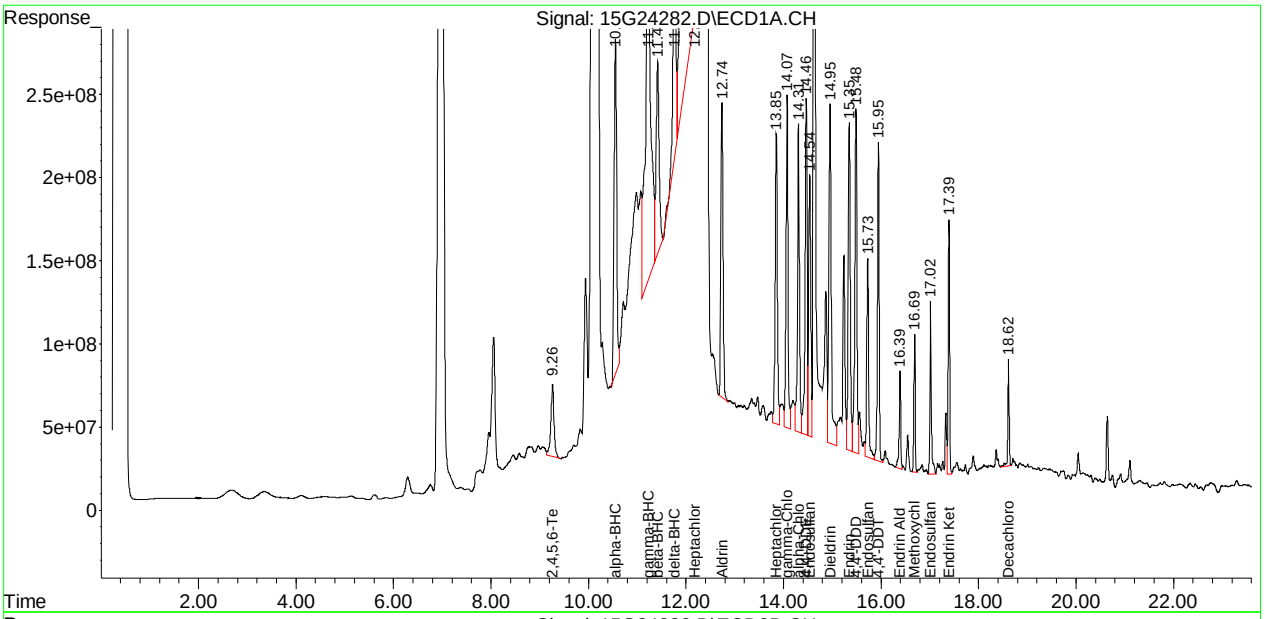
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

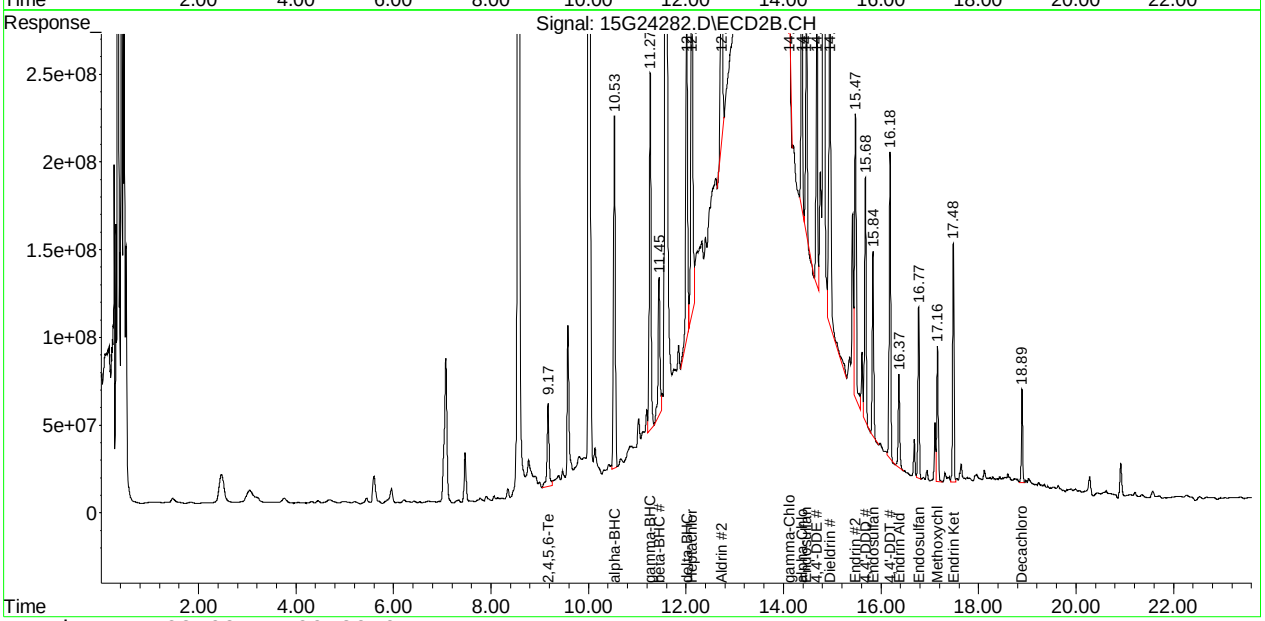
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\120110\
Data File : 15G24282.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2010 22:00 (#1); 01 Dec 2010 22:28 (#2)
Operator : ECL
Sample : WG349954-05 L10110846-04 MS
Misc : 7,1 SOIL
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 02 08:52:01 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 02 08:47:10 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Data Path : C:\MSDCHEM\1\DATA\120110\
Data File : 15G24283.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2010 22:28 (#1); 01 Dec 2010 22:57 (#2)
Operator : ECL
Sample : WG349954-06 L10110846-04 MSD
Misc : 7,1 SOIL
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 02 08:52:56 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 02 08:47:10 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

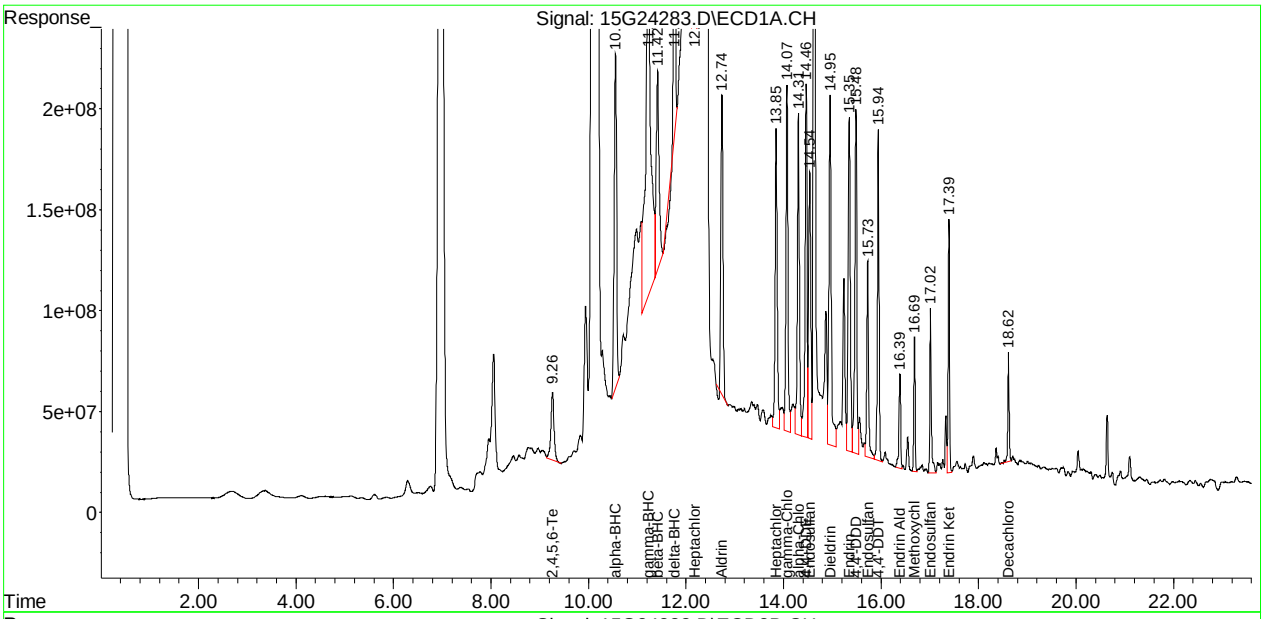
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.26	9.17	1513.1E6	1138.4E6	13.305	11.927
	Spiked Amount	20.000	Range 30 - 132		Recovery =	66.53%	59.63%
22) S	Decachlorobiphen	18.62	18.89	1081.5E6	857.7E6	13.496	15.286
	Spiked Amount	20.000	Range 36 - 144		Recovery =	67.48%	76.43%
	Target Compounds						
2)	alpha-BHC	10.55	10.53	5512.7E6	3736.1E6	33.029	26.959
3)	gamma-BHC	11.22	11.27	13570.7E6	4044.4E6	87.047	28.639 #
4)	beta-BHC	11.42	11.45	4131.4E6	1643.8E6	59.155	25.525 #
5)	Heptachlor	12.17	12.12	5278.7E6	4090.4E6	34.836m	29.989
6)	delta-BHC	11.76	12.02	3341.1E6	3476.5E6	21.833	24.874
7)	Aldrin	12.74	12.73	3937.6E6	3612.3E6	25.359	29.448
8)	Heptachlor Epoxi	13.85	13.78	4489.8E6	1271.7E6	31.630	12.072 #
9)	gamma-Chlordane	14.07	14.12	5009.1E6	1082.7E6	33.792	9.520 #
10)	alpha-Chlordane	14.31	14.38	4774.3E6	3338.5E6	35.133	30.383
11)	Endosulfan I	14.54	14.47	3724.9E6	2308.4E6	29.952	24.784
12)	4,4'-DDE	14.46	14.68	4842.8E6	3460.2E6	37.920	33.052
13)	Dieldrin	14.95	14.95	5391.0E6	4115.9E6	43.424	37.723
14)	Endrin	15.35	15.47	4733.4E6	3363.1E6	38.996	36.455
15)	4,4'-DDD	15.48	15.68	4868.9E6	2551.0E6	46.886	29.434 #
16)	Endosulfan II	15.73	15.84	2685.4E6	1833.8E6	22.604	19.827
17)	4,4'-DDT	15.95	16.18	3839.4E6	3025.6E6	32.470	33.620
18)	Endrin Aldehyde	16.39	16.37	1126.0E6	919.1E6	12.354	12.904
19)	Endosulfan Sulfa	17.02	16.77	1923.0E6	1476.2E6	20.113	20.480
20)	Methoxychlor	16.69	17.16	1343.0E6	1192.0E6	23.794	26.752
21)	Endrin Ketone	17.39	17.48	2668.9E6	2041.6E6	24.495	25.309

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\120110\
Data File : 15G24283.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2010 22:28 (#1); 01 Dec 2010 22:57 (#2)
Operator : ECL
Sample : WG349954-06 L10110846-04 MSD
Misc : 7,1 SOIL
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 02 08:52:56 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 02 08:47:10 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

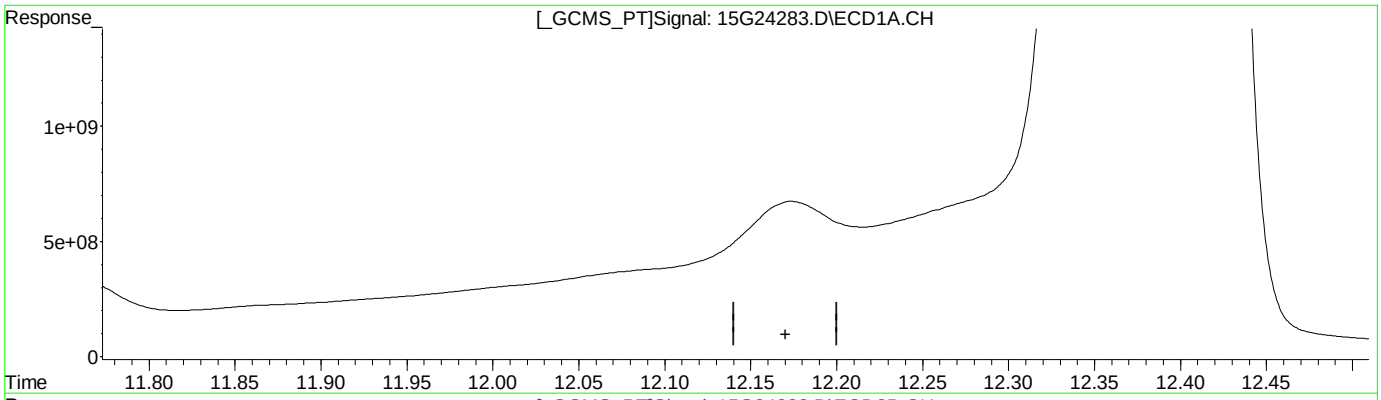


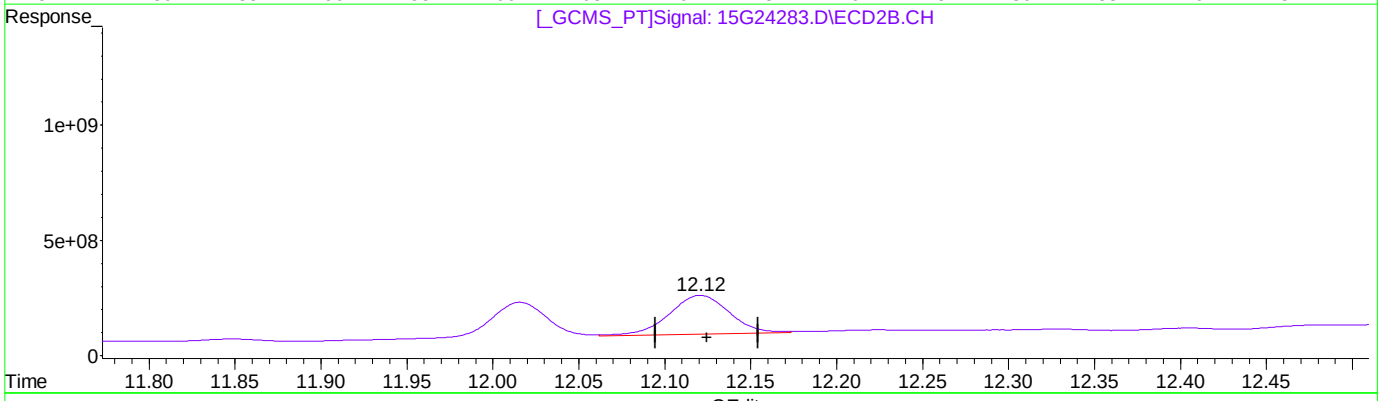
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\120110\
Data File : 15G24283.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Dec 2010 22:28 (#1); 01 Dec 2010 22:57 (#2)
Operator : ECL
Sample   : WG349954-06 L10110846-04 MSD
Misc   : 7,1 SOIL
ALS Vial : 18   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 02 08:52:14 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 02 08:47:10 2010
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :





QEdit

(5) Heptachlor

0.00min 0.000UG/L

response 0

(5) Heptachlor #2

12.12min 29.989UG/L

response 4090421716

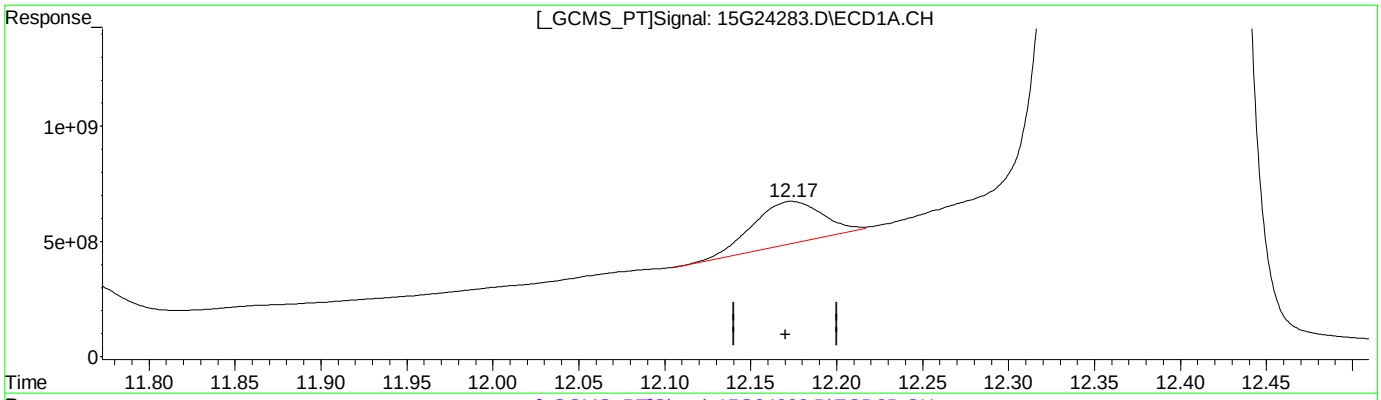
(+) = Expected Retention Time

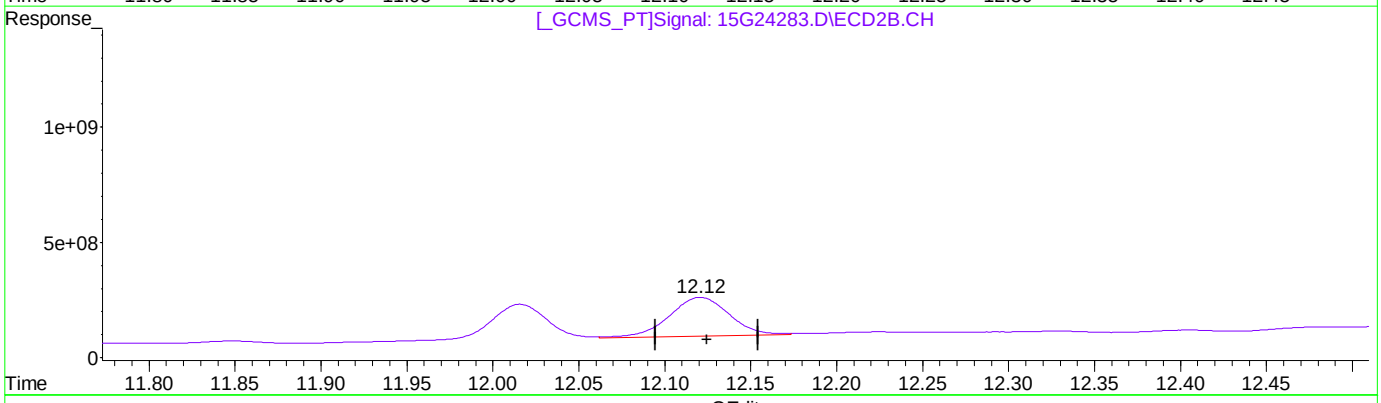
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\120110\
Data File : 15G24283.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Dec 2010 22:28 (#1); 01 Dec 2010 22:57 (#2)
Operator : ECL
Sample   : WG349954-06 L10110846-04 MSD
Misc   : 7,1 SOIL
ALS Vial : 18   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 02 08:52:14 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 02 08:47:10 2010
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :





QEdit

(5) Heptachlor

12.17min 34.836UG/L mint

response 5278676229

(5) Heptachlor #2

12.12min 29.989UG/L

response 4090421716

(+) = Expected Retention Time
8081.M Thu Dec 02 08:52:59 2010

Analyst: 12/02/2010 12:11 Supervisor: 12/02/2010 12:51

Page: 1

#1 - Data system fails to select correct peak

2.2 General Chemistry Data

2.2.1 Percent Solids Data

2.2.1.1 Raw Data

LABORATORY REPORT

L10110846

12/03/10 17:16

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: CT Laboratories
1230 Lange Court

Baraboo, WI 53913
Attention: Patrick Letterer

Project Number: 2694.006
Project: CT Labs
Site: CT LABS

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
DLASS-032-0003-SO	L10110846-01	D2216-90	1	24-NOV-10
DLASS-042-0003-SO	L10110846-02	D2216-90	1	24-NOV-10
DLASS-042-0001-SO	L10110846-03	D2216-90	1	24-NOV-10
DLASS-032-0001-SO	L10110846-04	D2216-90	1	24-NOV-10

Microbac Laboratories Inc.

Report Number: **L10110846**
Report Date : **December 3, 2010**

Sample Number:	**L10110846-01**	PrePrep Method:	**NONE**	Instrument:	**BAL001**
Client ID:	**DLASS-032-0003-SO**	Prep Method:	**D2216-90**	Prep Date:	**12/03/2010 10:07**
Matrix:	**Soil**	Analytical Method:	**D2216-90**	Cal Date:	
Workgroup Number:	**WG350309**	Analyst:	**JDH**	Run Date:	**12/03/2010 10:07**
Collect Date:	**11/11/2010 09:00**	Dilution:	**1**	File ID:	**B1.350309-0119**
Sample Tag:	**01**	Units:	**weight %**		

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Percent Solids	**10-02-6**	**97.6**		**1.00**	**1.00**

Report Number: **L10110846**
Report Date : **December 3, 2010**

Sample Number:	L10110846-02	PrePrep Method:	NONE	Instrument:	BAL001
Client ID:	DLASS-042-0003-SO	Prep Method:	D2216-90	Prep Date:	12/03/2010 10:07
Matrix:	Soil	Analytical Method:	D2216-90	Cal Date:	
Workgroup Number:	WG350309	Analyst:	JDH	Run Date:	12/03/2010 10:07
Collect Date:	11/11/2010 12:30	Dilution:	1	File ID:	B1.350309-0120
Sample Tag:	01	Units:	weight %		

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Percent Solids	10-02-6	99.2		1.00	1.00

Report Number: **L10110846**
Report Date : **December 3, 2010**

Sample Number:	L10110846-03	PrePrep Method:	NONE	Instrument:	BAL001
Client ID:	DLASS-042-0001-SO	Prep Method:	D2216-90	Prep Date:	12/03/2010 10:07
Matrix:	Soil	Analytical Method:	D2216-90	Cal Date:	
Workgroup Number:	WG350309	Analyst:	JDH	Run Date:	12/03/2010 10:07
Collect Date:	11/11/2010 12:20	Dilution:	1	File ID:	B1.350309-0121
Sample Tag:	01	Units:	weight %		

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Percent Solids	10-02-6	97.9		1.00	1.00

Report Number: **L10110846**
Report Date : **December 3, 2010**

Sample Number:	L10110846-04	PrePrep Method:	NONE	Instrument:	BAL001
Client ID:	DLASS-032-0001-SO	Prep Method:	D2216-90	Prep Date:	12/03/2010 10:07
Matrix:	Soil	Analytical Method:	D2216-90	Cal Date:	
Workgroup Number:	WG350309	Analyst:	JDH	Run Date:	12/03/2010 10:07
Collect Date:	11/11/2010 09:00	Dilution:	1	File ID:	B1.350309-0122
Sample Tag:	01	Units:	weight %		

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Percent Solids	10-02-6	99.0		1.00	1.00

Example Percent Solids Calculations

1.0 Calculating the percent solids of a sample.

$$\%Solids = \frac{WT3 - WT1}{WT2 - WT1} \times F$$

Where:	
WT1 = Weight, in grams, of the empty container	1.30 g
WT2 = Weight, in grams, of the container and wet sample	21.274 g
WT3 = Weight, in grams, of the container and dried sample	5.21 g
F = Factor to get units as percent weight	100
%Solids = Percent solids present in sample.	19.58%

2.0 Calculating the percent moisture of a sample.

% Moisture = 100 - % Solids from 1.0 calculation

Microbac Laboratories Inc.

PERCENT SOLIDS

Workgroup (AAB#):WG350309 Analyst:JDH ADT(on):12/02/2010 15:59
Method:D2216-90 Instrument:BAL001 ADT(off):12/03/2010 10:07
SOP:K0003 Rev:10

SAMPLE NUMBER	EMPTY PAN WT 1	WET WT 2	DRY WT 3A	DRY WT 3B	DRY WT 3C	PERCENT SOLID	PERCENT MOISTURE
L10110817-02	1.35	16.78	14.27			83.73	
L10110817-03	1.37	11.21	9.69			84.55	
L10110817-04	1.36	25.04	23.37			92.95	
L10110817-05	1.35	18.15	15.81			86.07	
L10110817-06	1.31	24.38	22.08			90.03	
L10110844-01	1.32	38.02	32.77			85.69	
L10110844-02	1.33	48.24	39.02			80.35	
L10110844-03	1.35	26.41	22.28			83.52	
L10110844-04	1.34	28.3	24.72			86.72	
L10110844-05	1.35	36.67	32.33			87.71	
L10110844-06	1.35	33.01	29.85			90.02	
L10110844-07	1.37	23.43	18.98			79.83	
L10110844-08	1.36	38.18	34.03			88.73	
L10110844-09	1.31	30.55	26.12			84.85	
L10110844-10	1.35	22.61	18.7			81.61	
L10110844-11	1.35	37.01	33.39			89.85	
L10110845-01	1.3	14.66	11.65			77.47	
L10110845-02	1.32	28.76	20.14			68.59	
L10110846-01	1.33	12.67	12.4			97.62	
L10110846-02	1.35	28.54	28.33			99.23	
L10110846-03	1.34	26.67	26.14			97.91	
L10110846-04	1.33	7.19	7.13			98.98	
WG350309-01	1.33	7.19	7.13			98.98	1.024
WG350309-02	1.34	12.08	11.92			98.51	1.490

Analyst: Justin Hasson

PERCENT_SOLIDS - Modified 04/24/2008
PDF ID: 1856364
Report generated: 12/03/2010 10:10

3.0 Attachments

Microbac Laboratories Inc.
Analyst Listing
December 10, 2010

ADC – ANTHONY D. CANTER	AJF – AMANDA J. FICKIESEN	ALB – ANNIE L. BROWN
ALV – AMY L. VALENTINE	AML – TONY M. LONG	AZH – AFTER HOURS
BLG – BRENDA L. GREENWALT	BRG – BRENDA R. GREGORY	CAA – CASSIE A. AUGENSTEIN
CAF – CHERYL A. FLOWERS	CEB – CHAD E. BARNES	CLC – CHRYS L. CRAWFORD
CLS – CARA L. STRICKLER	CLW – CHARISSA L. WINTERS	CPD – CHAD P. DAVIS
CSH – CHRIS S. HILL	DDE – DEBRA D. ELLIOTT	DEL – DON E. LIGHTFRITZ
DEV – DAVID E. VANDENBERG	DGB – DOUGLAS G. BUTCHER	DIH – DEANNA I. HESSON
DLB – DAVID L. BUMGARNER	DLP – DOROTHY L. PAYNE	DLR – DIANNA L. RAUCH
ECL – ERIC C. LAWSON	EDA – ERIN D. AGEE	ERP – ERIN R. PORTER
FJB – FRANCES J. BOLDEN	HAV – HEMA VILASAGAR	HJR – HOLLY J. REED
JAL – JOHN A. LENT	JBK – JEREMY B. KINNEY	JDH – JUSTIN D. HESSON
JKT – JANE K. THOMPSON	JWR – JOHN W. RICHARDS	JWS – JACK W. SHEAVES
JYH – JI Y. HU	KEB – KATIE E. BARNES	KHR – KIM H. RHODES
KRA – KATHY R. ALBERTSON	LKN – LINDA K. NEDEFF	LSB – LESLIE S. BUCINA
MDA – MIKE D. ALBERTSON	MDC – MIKE D. COCHRAN	MES – MARY E. SCHILLING
MMB – MAREN M. BEERY	MRT – MICHELLE R. TAYLOR	MSW – MATT S. WILSON
PDM – PIERCE D. MORRIS	PWD – PAUL W. DENT	RAH – ROY A. HALSTEAD
RB – BOB BUCHANAN	REK – BOB E. KYER	RLK – ROBIN L. KLINGER
RWC – RODNEY W. CAMPBELL	SLM – STEPHANIE L. MOSSBURG	SLP – SHERI L. PFALZGRAF
TIP – TAE I. PARRISH	TMB – TIFFANY M. BAILEY	TMM – TAMMY M. MORRIS
VC – VICKI COLLIER	WJB – WILL J. BEASLEY	WTD – WADE T. DELONG

Microbac Laboratories Inc.
List of Valid Qualifiers
December 10, 2010

Qualkey: DOD

Qualifier	Description
*	Surrogate or spike compound out of range
+	Correlation coefficient for the MSA is less than 0.995
<	Result is less than the associated numerical value.
>	Result is greater than the associated numerical value.
A	See the report narrative
B	The reported result is associated with a contaminated method blank.
B1	Target analyte detected in method blank at or above the method reporting limit
B3	Target analyte detected in calibration blank at or above the method reporting limit
B4	The BOD unseeded dilution water blank exceeded 0.2 mg/L
C	Confirmed by GC/MS
CG	Confluent growth
DL	Surrogate or spike compound was diluted out
E	Estimated concentration due to sample matrix interference
EDL	Elevated sample reporting limits, presence of non-target analytes
EMPC	Estimated Maximum Possible Concentration
F, S	Estimated result below quantitation limit; method of standard additions(MSA)
FL	Free Liquid
H1	Sample analysis performed past holding time.
I	Semiquantitative result (out of instrument calibration range)
J	Estimated concentration; sample matrix interference.
J	Estimated value ; the analyte concentration was greater than the highest standard
J	Estimated value ; the analyte concentration was less than the low standard (LOQ)
J	The reported result is an estimated value.
J,B	Analyte detected in both the method blank and sample above the MDL.
J,P	Estimate; columns don't agree to within 40%
J,S	Estimated concentration; analyzed by method of standard addition (MSA)
L	Sample reporting limits elevated due to matrix interference
L1	The associated blank spike (LCS) recovery was above the laboratory acceptance limits.
L2	The associated blank spike (LCS) recovery was below the laboratory acceptance limits.
M	Matrix effect; the concentration is an estimate due to matrix effect.
N	Nontarget analyte; the analyte is a tentativlely identified compound (TIC) by GC/MS
NA	Not applicable
ND	Not detected at or above the reporting limit (RL).
ND, L	Not detected; sample reporting limit (RL) elevated due to interference
ND, S	Not detected; analyzed by method of standard addition (MSA)
NF	Not found by library search
NFL	No free liquid
NI	Non-ignitable
NR	Analyte is not required to be analyzed
NS	Not spiked
P	Concentrations >40% difference between the two GC columns
Q	One or more quality control criteria failed. See narrative.
QNS	Quantity of sample not sufficient to perform analysis
RA	Reanalysis confirms reported results
RE	Reanalysis confirms sample matrix interference
S	Analyzed by method of standard addition (MSA)
SMI	Sample matrix interference on surrogate
SP	Reported results are for spike compounds only
TIC	Library Search Compound
TNTC	Too numerous to count
U	Analyte was not detected. The concentration is below the reported LOD.
UJ	Undetected; the analyte was analyzed for, but not detected.
UQ	Undetected; the analyte was analyzed for, but not detected.
W	Post-digestion spike for furnace AA out of control limits
X	Exceeds regulatory limit
X, S	Exceeds regulatory limit; method of standard additions (MSA)
Z	Cannot be resolved from isomer - see below

*****Special Notes for Organic Analytes**

Qualkey: DOD

1. Acrolein and acrylonitrile by method 624 are semi-quantitative screens only.
2. 1,2-Diphenylhydrazine is unstable and is reported as azobenzene.
3. N-nitrosodiphenylamine cannot be separated from diphenylamine.
4. 3-Methylphenol and 4-Methylphenol are unresolvable compounds.
5. m-Xylene and p-Xylene are unresolvable compounds.
6. The reporting limits for Appendix II/IX compounds by method 8270 are based on EPA estimated PQLs referenced in 40 CFR Part 264, Appendix IX. They are not always achievable for every compound an are matrix dependent.

CT LABORATORIES

delivering more than data from your environmental analyses

1230 Lange Court • Baraboo, WI 53913 • 608-356-2760
www.ctlaboratories.com

221000010624

Microbac OVD
Received: 11/24/2010 11:32
By: JANE THOMPSON

Upon Receipt of Samples, please verify that samples were received in acceptable condition then sign this form and fax to (608)356-2766 or ema the project manager. **Sample temperature, upon receipt, must be recorded on this document unless thermal preservation is not a method requirement.**

Ship to: **Microbac**
158 Starlight Drive
Marietta, OH 45750

Return Invoice and Results to:

CT Laboratories
Pat Letterer
1230 Lange Court
Baraboo WI 53913
pletterer@ctlaboratories.com

PURCHASE ORDER # 82458 MICROBAC

The PO# must appear on all invoice and reports!

Samples to be analyzed following QSM 4.1

Date Due: 2 week TAT

RUSH TURNAROUND NEEDED? Y or (N) (Circle One)

RmL
11-23-10

Report results as EDD? N (Y) (Circle one and indicate type: ADR A1 & A3) Data Deliverable Package LEVEL: Level IV

CTLabs ID#	Sample Date/Time	Matrix	Sample Description	Analyses / Method		Cost
871184	11/11/2010 0900	SOIL	DLASS-032-0003-SO	PESTICIDES	SW8081	
871186	11/11/2010 1230	SOIL	DLASS-042-0003-SO	PESTICIDES		
871197	11/11/2010 1220	SOIL	DLASS-042-0001-SO	PESTICIDES		
871198	11/11/2010 0900	SOIL	DLASS-032-0001-SO	PESTICIDES		

Relinquished by: RmL
Date/Time: 11-23-10, 1344

Received by: Date/Time: Receipt Temperature (C)

COMMENTS: Per client the sample hold time does not start until sample grinding and homogenization is complete. ALL sample hold times are to begin as of 11/17/2010 at 17:00.

1000010624

COOLER INSPECTION

Received: 11/24/2010 11:32
Delivery Method: FedEx
Opened By: Jane Thompson
Comments:

Login(s): L10110846|

Cooler(s)

Cooler #	Temp Gun	Temp	Tracking #	COC #	Comments
0015124	H	4.0	345750315100000245123003459020 13		

1	Yes	Were shipping coolers sealed?
2	Yes	Were custody seals intact?
3	Yes	Were cooler temperatures in range of 0-6?
4	Yes	Was ice present?
5	Yes	Were COC's received/information complete/signed and dated?
6	Yes	Were sample containers and labels intact and match COC?
7	Yes	Were the correct containers and volumes received?
8	Yes	Were samples received within EPA hold times?
9	NA	Were correct perservatives used? (water only)
10	NA	Were pH ranges acceptable? (voa's excluded)
11	NA	Were VOA samples free of headspace (less than 6mm)?

Discrepancies:

Microbac - Ohio Valley Division
158 Starlite Drive
Marietta, OH 45750
Tel: (740)373-4071 Fax: (740)373-4835

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L10110846
Account: 2694
Project: 2694.006
Samples: 4
Due Date: 03-DEC-2010

Samplenum	Container ID	Products
L10110846-01	771259	PCT-S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	29-NOV-2010 12:06	RLK	
2	PREP	W1	EXT	30-NOV-2010 06:20	CEB	AZH
3	STORE	EXT	W1	30-NOV-2010 11:49	RLK	CEB
4	ANALYZ	WET	W1	03-DEC-2010 10:25	RLK	JDH
5	STORE	W1	A2	06-DEC-2010 12:40	BLG	BLG

Samplenum	Container ID	Products
L10110846-02	771260	PCT-S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	29-NOV-2010 12:06	RLK	
2	PREP	W1	EXT	30-NOV-2010 06:20	CEB	AZH
3	STORE	EXT	W1	30-NOV-2010 11:49	RLK	CEB
4	ANALYZ	WET	W1	03-DEC-2010 10:25	RLK	JDH
5	STORE	W1	A2	06-DEC-2010 12:40	BLG	BLG

Samplenum	Container ID	Products
L10110846-03	771261	PCT-S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	29-NOV-2010 12:06	RLK	
2	PREP	W1	EXT	30-NOV-2010 06:20	CEB	AZH
3	STORE	EXT	W1	30-NOV-2010 11:49	RLK	CEB
4	ANALYZ	WET	W1	03-DEC-2010 10:25	RLK	JDH
5	STORE	W1	A2	06-DEC-2010 12:40	BLG	BLG

Samplenum	Container ID	Products
L10110846-04	771262	PCT-S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	29-NOV-2010 12:06	RLK	
2	PREP	W1	EXT	30-NOV-2010 06:20	CEB	AZH
3	STORE	EXT	W1	30-NOV-2010 11:49	RLK	CEB
4	ANALYZ	WET	W1	03-DEC-2010 10:25	RLK	JDH
5	STORE	W1	A2	06-DEC-2010 12:40	BLG	BLG

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

CHAIN OF CUSTODY,
PM CONFIRMATION
AND
SAMPLE CONDITION FORMS
DOCUMENTS

Rev. 3/2006

Chain of Custody

Page _____ of _____

Company: USACE
Project Contact: Derek Kinder
Telephone: 502-315-6393
Project Name: Ore Piles
Project Number:
Project Location: Ravenna AAP
Sampled By:

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other CERCLA

CT LABORATORIES
delivering more than data from your environmental analyses

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Turnaround Time
Normal RUSH*
Date Needed _____

*Notify Lab prior to sending in RUSH samples. Surcharges:
24 hr 200% 2-3 days 100% 4-9 days 50%,
subject to change without notice.

****
Folder #: 82458
Company: USACE - LOUISVILLE
Project: RAVENNA ORE PILES
Logged By: PML PM: PM
****

Mail Report To:
Company:
Address:
City/State/Zip:

Invoice To:
Company:
Address:
City/State/Zip:

PO No.

Client Special Instructions:
METALS INCLUDE CR VI + MERCURY

Landfill License Number:

Collection Date	Collection Time	Grab/ Comp	Sample ID Description	WDNR Well ID #	**Matrix:	Filt? Y/N	Explosives + Propellants	Metals	SVOC	PCB	Pesticides				Total # of Containers	Preservation*	Lab ID #
				Fill in Spaces with Bottles per Test													
11 Nov 10	0900	MI	DLASS-032-0003-So		Soil		X	X	X	X	X						871184
11 Nov 10	1230	MI	DLASS-042-0003-So		Soil		X	X	X	X	X						871186
11 Nov 10	0931	MI	DLASS-035-0001-So		Soil			X									871187
11 Nov 10	1045	MI	DLASS-036-0001-So		Soil			X									871188
																	871 PML

* Preservation Code
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

Relinquished By:	Date/Time	Relinquished By:	Date/Time
Derek Kinder	11/11/10 1800		
Received by:	**Date/Time**	**Received for Laboratory by:**	**Date/Time**
FedEx		PML	11-12-10 1156

Ice Present (Yes) No
Temperature 3.6°
Cooler # 3285
PML 11-12-10, 1038

**Matrix
S-Soil A-Air Sl-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

Rev. 3/2006

Chain of Custody

Page _____ of _____

Company: USACE
Project Contact: DEREK KINDER
Telephone: 502-315-6393
Project Name: ORE PILES
Project Number:
Project Location: RAVENNA AAP
Sampled By:

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other CERCLA

CT LABORATORIES
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1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Turnaround Time
(Normal) RUSH*
Date Needed _____

*Notify Lab prior to sending in RUSH samples. Surcharges:
24 hr 200% 2-3 days 100% 4-9 days 50%,
subject to change without notice.

Lab Use Only
Place Header Sticker Here:

Mail Report To:
Company:
Address:
City/State/Zip:

Invoice To:
Company:
Address:
City/State/Zip:

PO No.

Client Special Instructions:
METALS INCLUDE CR VI + MERCURY

Landfill License Number:

Collection Date	Collection Time	Grab/ Comp	Sample ID Description	WDNR Well ID #	**Matrix:	Explosives + Propellants	Metals	SVOC	PCB	Pesticides				Total # of Containers	Preservation*	Lab ID #
				Filt? Y/N												
				Fill in Spaces with Bottles per Test												
11 NOV 10	0945	MI	DLASS-031-0001-SO		SOIL		X							1	A	871189
11 NOV 10	1000	MI	DLASS-039-0001-SO		SOIL		X							1	A	871190
11 NOV 10	1310	MI	DLASS-037-0001-SO		SOIL		X							1	A	871191
11 NOV 10	1030	MI	DLASS-034-0001-SO		SOIL		X							1	A	871192
11 NOV 10	1043	MI	DLASS-038-0001-SO		SOIL		X							1	A	871193

* **Preservation Code**
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

Relinquished By:	Date/Time	Relinquished By:	Date/Time
Derek Kinder	11/11/10 1800		
Received by:	**Date/Time**	**Received for Laboratory by:**	**Date/Time**
FedEx		PML	11-12-10 1156

Ice Present (Yes) No
Temperature 2.2°
Cooler # Unlabeled-Blue
PML 11-12-10 1039

**Matrix
S-Soil A-Air Sl-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

Team 4

Rev. 3/2006

Chain of Custody

Page _____ of _____

Company: USACE
Project Contact: DEREK KINDER
Telephone: 502-315-6393
Project Name: ORE PILES
Project Number:
Project Location: RAVENNA AAP
Sampled By:

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other CERCLA

CT LABORATORIES
delivering more than data from your environmental analyses
1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Turnaround Time
(Normal) RUSH*
Date Needed _____

*Notify Lab prior to sending in RUSH samples. Surcharges:
24 hr 200% 2-3 days 100% 4-9 days 50%,
subject to change without notice.

Lab Use Only
Place Header Sticker Here:

Mail Report To:
Company:
Address:
City/State/Zip:

Invoice To:
Company:
Address:
City/State/Zip:

PO No.

Client Special Instructions:
METALS INCLUDE CR VI + MERCURY

Landfill License Number:

Collection Date	Collection Time	Grab/ Comp	Sample ID Description	Filt? Y/N	WDNR Well ID #	**Matrix:	EXPLOSIVES + PROPELLANTS	METALS	SVOC	PCB	PESTICIDES				Total # of Containers	Preservation*	Lab ID #
Fill in Spaces with Bottles per Test																	
11 Nov 10	1235	MI	DLASS-Φ44-ΦΦΦ1-SO			SOIL		X							1	A	871194
11 Nov 10	1Φ2Φ	MI	DLASS-Φ41-ΦΦΦ1-SO			SOIL		X							1	A	871195
11 Nov 10	Φ92Φ	MI	DLASS-Φ4Φ-ΦΦΦ1-SO			SOIL		X							1	A	871196
11 Nov 10	122Φ	MI	DLASS-Φ42-ΦΦΦ1-SO			SOIL	X	X	X	X	X	MS/MSD			1	A	871197
11 Nov 10	ΦΦΦΦ	MI	DLASS-Φ32-ΦΦΦ1-SO			SOIL	X	X	X	X	X	MS/MSD			1	A	871198

* Preservation Code
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

Relinquished By:	Date/Time	Relinquished By:	Date/Time
Derek Kinder	11/11/10 1800		
Received by:	Date/Time	Received for Laboratory by:	Date/Time
FedEx		PML 11-12-10	1156

Ice Present (Yes) No
Temperature 0.3°
Cooler # Unlabeled-Green
PML 11-12-10, 1038

**Matrix
S-Soil A-Air Sl-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

Folder #: 82458

PM LOGIN CONFIRMATION

Company: USACE - LOUISVILLE **Contract #:** 2263 **Project:** RAVENNA ORE PILES **Proj #:** W912QR-10-D-0024

PO Number: **Invoice #:** 82594 **Project Manager:** *PML*

Date Received: 11/12/10 **Log Date:** 11/12/2010 **Projected Sample Disposal Date:** 4 **days from receipt date**

Report To: DEREK KINDER
600 DR MLKJ PLACE
PO BOX 59 ROOM 921
LOUISVILLE, KY 40201-0059
Phone: :
Rep. E-Mail

CC:
Fax:

Invoice To :
USACE FINANCE CENTER (UFC)
5733 INTEGRITY DR
MILLINGTON, TN 38054-5005
Phone:
EMail:

CC:
Fax:

Collected By:
Collector's Phone:

Arrival Temperature: oC

SAMPLE #: 871184 DESCR: DLASS-032-0003-SO MATRIX: SOIL SAMPLED: 11/11/2010 Time: 0900 CLIENT SAMPLE #:

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				11/25/2010	11/24/2010		Logged
780	SVOC 8270 QSM					11/24/2010		NeedPrep
796	NITROCELLULOSE					11/24/2010		NeedPrep
817	ICP QSM				5/10/2011	11/24/2010		NeedPrep
		Aluminum						
		Antimony						
		Arsenic						
		Barium						
		Beryllium						
		Cadmium						
		Calcium						
		Chromium						
		Cobalt						
		Copper						

SAMPLE #: 871184 **DESCR:** DLASS-032-0003-SO **MATRIX:** SOIL **SAMPLED:** 11/11/2010 **Time:** 0900 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
		Iron						
		Lead						
		Magnesium						
		Manganese						
		Nickel						
		Selenium						
		Silver						
		Thallium						
		Vanadium						
		Zinc						
827	ICP K QSM				5/10/2011	11/24/2010		NeedPrep
828	ICP NA QSM				5/10/2011	11/24/2010		NeedPrep
833	MERCURY QSM				12/9/2010	11/24/2010		NeedPrep
855	PCB QSM					11/24/2010		NeedPrep
859	PESTICIDES QSM					11/24/2010		NeedPrep
891	EXPLOSIVES NITROGUAN					11/24/2010		NeedPrep
906	8330B EXPLOSIVES QSM					11/24/2010		NeedPrep
946	HOMOGEN/M.I. PREP					11/24/2010		Logged
951	HEX CHROME QSM SOIL					11/24/2010		NeedPrep

SAMPLE #: 871186 **DESCR:** DLASS-042-0003-SO **MATRIX:** SOIL **SAMPLED:** 11/11/2010 **Time:** 1230 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				11/25/2010	11/24/2010		Logged
780	SVOC 8270 QSM					11/24/2010		NeedPrep
796	NITROCELLULOSE					11/24/2010		NeedPrep
817	ICP QSM				5/10/2011	11/24/2010		NeedPrep
		Aluminum						
		Antimony						

Folder #: 82458 **Company:** *USACE - LOUISVILLE* **Project:** RAVENNA ORE PILES

SAMPLE #: 871186 **DESCR:** DLASS-042-0003-SO **MATRIX:** SOIL **SAMPLED:** 11/11/2010 **Time:** 1230 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
		Arsenic						
		Barium						
		Beryllium						
		Cadmium						
		Calcium						
		Chromium						
		Cobalt						
		Copper						
		Iron						
		Lead						
		Magnesium						
		Manganese						
		Nickel						
		Selenium						
		Silver						
		Thallium						
		Vanadium						
		Zinc						
827	ICP K QSM				5/10/2011	11/24/2010		NeedPrep
828	ICP NA QSM				5/10/2011	11/24/2010		NeedPrep
833	MERCURY QSM				12/9/2010	11/24/2010		NeedPrep
855	PCB QSM					11/24/2010		NeedPrep
859	PESTICIDES QSM					11/24/2010		NeedPrep
891	EXPLOSIVES NITROGUAN					11/24/2010		NeedPrep
906	8330B EXPLOSIVES QSM					11/24/2010		NeedPrep
946	HOMOGEN/M.I. PREP					11/24/2010		Logged
951	HEX CHROME QSM SOIL					11/24/2010		NeedPrep

Folder #: 82458 **Company:** *USACE - LOUISVILLE* **Project:** RAVENNA ORE PILES

SAMPLE #: 871187 **DESCR:** DLASS-035-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/11/2010 **Time:** 0931 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				11/25/2010	11/24/2010		Logged
817	ICP QSM				5/10/2011	11/24/2010		NeedPrep
		Aluminum						
		Antimony						
		Arsenic						
		Barium						
		Beryllium						
		Cadmium						
		Calcium						
		Chromium						
		Cobalt						
		Copper						
		Iron						
		Lead						
		Magnesium						
		Manganese						
		Nickel						
		Selenium						
		Silver						
		Thallium						
		Vanadium						
		Zinc						
827	ICP K QSM				5/10/2011	11/24/2010		NeedPrep
828	ICP NA QSM				5/10/2011	11/24/2010		NeedPrep
833	MERCURY QSM				12/9/2010	11/24/2010		NeedPrep
946	HOMOGEN/M.I. PREP					11/24/2010		Logged
951	HEX CHROME QSM SOIL					11/24/2010		NeedPrep

Folder #: 82458 **Company:** *USACE - LOUISVILLE* **Project:** RAVENNA ORE PILES

SAMPLE #: 871188 **DESCR:** DLASS-036-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/11/2010 **Time:** 1045 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				11/25/2010	11/24/2010		Logged
817	ICP QSM				5/10/2011	11/24/2010		NeedPrep
		Aluminum						
		Antimony						
		Arsenic						
		Barium						
		Beryllium						
		Cadmium						
		Calcium						
		Chromium						
		Cobalt						
		Copper						
		Iron						
		Lead						
		Magnesium						
		Manganese						
		Nickel						
		Selenium						
		Silver						
		Thallium						
		Vanadium						
		Zinc						
827	ICP K QSM				5/10/2011	11/24/2010		NeedPrep
828	ICP NA QSM				5/10/2011	11/24/2010		NeedPrep
833	MERCURY QSM				12/9/2010	11/24/2010		NeedPrep
946	HOMOGEN/M.I. PREP					11/24/2010		Logged
951	HEX CHROME QSM SOIL					11/24/2010		NeedPrep

Folder #: 82458 **Company:** *USACE - LOUISVILLE* **Project:** RAVENNA ORE PILES

SAMPLE #: 871189 **DESCR:** DLASS-031-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/11/2010 **Time:** 0945 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				11/25/2010	11/24/2010		Logged
817	ICP QSM				5/10/2011	11/24/2010		NeedPrep
		Aluminum						
		Antimony						
		Arsenic						
		Barium						
		Beryllium						
		Cadmium						
		Calcium						
		Chromium						
		Cobalt						
		Copper						
		Iron						
		Lead						
		Magnesium						
		Manganese						
		Nickel						
		Selenium						
		Silver						
		Thallium						
		Vanadium						
		Zinc						
827	ICP K QSM				5/10/2011	11/24/2010		NeedPrep
828	ICP NA QSM				5/10/2011	11/24/2010		NeedPrep
833	MERCURY QSM				12/9/2010	11/24/2010		NeedPrep
946	HOMOGEN/M.I. PREP					11/24/2010		Logged
951	HEX CHROME QSM SOIL					11/24/2010		NeedPrep

Folder #: 82458 **Company:** *USACE - LOUISVILLE* **Project:** RAVENNA ORE PILES

SAMPLE #: 871190 **DESCR:** DLASS-039-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/11/2010 **Time:** 1000 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				11/25/2010	11/24/2010		Logged
817	ICP QSM				5/10/2011	11/24/2010		NeedPrep
		Aluminum						
		Antimony						
		Arsenic						
		Barium						
		Beryllium						
		Cadmium						
		Calcium						
		Chromium						
		Cobalt						
		Copper						
		Iron						
		Lead						
		Magnesium						
		Manganese						
		Nickel						
		Selenium						
		Silver						
		Thallium						
		Vanadium						
		Zinc						
827	ICP K QSM				5/10/2011	11/24/2010		NeedPrep
828	ICP NA QSM				5/10/2011	11/24/2010		NeedPrep
833	MERCURY QSM				12/9/2010	11/24/2010		NeedPrep
946	HOMOGEN/M.I. PREP					11/24/2010		Logged
951	HEX CHROME QSM SOIL					11/24/2010		NeedPrep

Folder #: 82458 **Company:** *USACE - LOUISVILLE* **Project:** RAVENNA ORE PILES

SAMPLE #: 871191 **DESCR:** DLASS-037-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/11/2010 **Time:** 1310 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				11/25/2010	11/24/2010		Logged
817	ICP QSM				5/10/2011	11/24/2010		NeedPrep
		Aluminum						
		Antimony						
		Arsenic						
		Barium						
		Beryllium						
		Cadmium						
		Calcium						
		Chromium						
		Cobalt						
		Copper						
		Iron						
		Lead						
		Magnesium						
		Manganese						
		Nickel						
		Selenium						
		Silver						
		Thallium						
		Vanadium						
		Zinc						
827	ICP K QSM				5/10/2011	11/24/2010		NeedPrep
828	ICP NA QSM				5/10/2011	11/24/2010		NeedPrep
833	MERCURY QSM				12/9/2010	11/24/2010		NeedPrep
946	HOMOGEN/M.I. PREP					11/24/2010		Logged
951	HEX CHROME QSM SOIL					11/24/2010		NeedPrep

Folder #: 82458 **Company:** *USACE - LOUISVILLE* **Project:** RAVENNA ORE PILES

SAMPLE #: 871192 **DESCR:** DLASS-034-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/11/2010 **Time:** 1030 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				11/25/2010	11/24/2010		Logged
817	ICP QSM				5/10/2011	11/24/2010		NeedPrep
		Aluminum						
		Antimony						
		Arsenic						
		Barium						
		Beryllium						
		Cadmium						
		Calcium						
		Chromium						
		Cobalt						
		Copper						
		Iron						
		Lead						
		Magnesium						
		Manganese						
		Nickel						
		Selenium						
		Silver						
		Thallium						
		Vanadium						
		Zinc						
827	ICP K QSM				5/10/2011	11/24/2010		NeedPrep
828	ICP NA QSM				5/10/2011	11/24/2010		NeedPrep
833	MERCURY QSM				12/9/2010	11/24/2010		NeedPrep
946	HOMOGEN/M.I. PREP					11/24/2010		Logged
951	HEX CHROME QSM SOIL					11/24/2010		NeedPrep

Folder #: 82458 **Company:** *USACE - LOUISVILLE* **Project:** RAVENNA ORE PILES

SAMPLE #: 871193 **DESCR:** DLASS-038-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/11/2010 **Time:** 1043 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				11/25/2010	11/24/2010		Logged
817	ICP QSM				5/10/2011	11/24/2010		NeedPrep
		Aluminum						
		Antimony						
		Arsenic						
		Barium						
		Beryllium						
		Cadmium						
		Calcium						
		Chromium						
		Cobalt						
		Copper						
		Iron						
		Lead						
		Magnesium						
		Manganese						
		Nickel						
		Selenium						
		Silver						
		Thallium						
		Vanadium						
		Zinc						
827	ICP K QSM				5/10/2011	11/24/2010		NeedPrep
828	ICP NA QSM				5/10/2011	11/24/2010		NeedPrep
833	MERCURY QSM				12/9/2010	11/24/2010		NeedPrep
946	HOMOGEN/M.I. PREP					11/24/2010		Logged
951	HEX CHROME QSM SOIL					11/24/2010		NeedPrep

Folder #: 82458 **Company:** *USACE - LOUISVILLE* **Project:** RAVENNA ORE PILES

SAMPLE #: 871194 **DESCR:** DLASS-044-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/11/2010 **Time:** 1235 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				11/25/2010	11/24/2010		Logged
817	ICP QSM				5/10/2011	11/24/2010		NeedPrep
		Aluminum						
		Antimony						
		Arsenic						
		Barium						
		Beryllium						
		Cadmium						
		Calcium						
		Chromium						
		Cobalt						
		Copper						
		Iron						
		Lead						
		Magnesium						
		Manganese						
		Nickel						
		Selenium						
		Silver						
		Thallium						
		Vanadium						
		Zinc						
827	ICP K QSM				5/10/2011	11/24/2010		NeedPrep
828	ICP NA QSM				5/10/2011	11/24/2010		NeedPrep
833	MERCURY QSM				12/9/2010	11/24/2010		NeedPrep
946	HOMOGEN/M.I. PREP					11/24/2010		Logged
951	HEX CHROME QSM SOIL					11/24/2010		NeedPrep

Folder #: 82458 **Company:** *USACE - LOUISVILLE* **Project:** RAVENNA ORE PILES

SAMPLE #: 871195 **DESCR:** DLASS-041-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/11/2010 **Time:** 1020 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				11/25/2010	11/24/2010		Logged
817	ICP QSM				5/10/2011	11/24/2010		NeedPrep
		Aluminum						
		Antimony						
		Arsenic						
		Barium						
		Beryllium						
		Cadmium						
		Calcium						
		Chromium						
		Cobalt						
		Copper						
		Iron						
		Lead						
		Magnesium						
		Manganese						
		Nickel						
		Selenium						
		Silver						
		Thallium						
		Vanadium						
		Zinc						
827	ICP K QSM				5/10/2011	11/24/2010		NeedPrep
828	ICP NA QSM				5/10/2011	11/24/2010		NeedPrep
833	MERCURY QSM				12/9/2010	11/24/2010		NeedPrep
946	HOMOGEN/M.I. PREP					11/24/2010		Logged
951	HEX CHROME QSM SOIL					11/24/2010		NeedPrep

Folder #: 82458 **Company:** *USACE - LOUISVILLE* **Project:** RAVENNA ORE PILES

SAMPLE #: 871196 **DESCR:** DLASS-040-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/11/2010 **Time:** 0920 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				11/25/2010	11/24/2010		Logged
817	ICP QSM				5/10/2011	11/24/2010		NeedPrep
		Aluminum						
		Antimony						
		Arsenic						
		Barium						
		Beryllium						
		Cadmium						
		Calcium						
		Chromium						
		Cobalt						
		Copper						
		Iron						
		Lead						
		Magnesium						
		Manganese						
		Nickel						
		Selenium						
		Silver						
		Thallium						
		Vanadium						
		Zinc						
827	ICP K QSM				5/10/2011	11/24/2010		NeedPrep
828	ICP NA QSM				5/10/2011	11/24/2010		NeedPrep
833	MERCURY QSM				12/9/2010	11/24/2010		NeedPrep
946	HOMOGEN/M.I. PREP					11/24/2010		Logged
951	HEX CHROME QSM SOIL					11/24/2010		NeedPrep

Folder #: 82458 **Company:** *USACE - LOUISVILLE* **Project:** RAVENNA ORE PILES

SAMPLE #: 871197 **DESCR:** DLASS-042-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/11/2010 **Time:** 1220 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT			***DESIGNATED MATRIX SPIKE***	11/25/2010	11/24/2010		Logged
780	SVOC 8270 QSM			***DESIGNATED MATRIX SPIKE***		11/24/2010		NeedPrep
796	NITROCELLULOSE			***DESIGNATED MATRIX SPIKE***		11/24/2010		NeedPrep
817	ICP QSM			***DESIGNATED MATRIX SPIKE***	5/10/2011	11/24/2010		NeedPrep
		Aluminum						
		Antimony						
		Arsenic						
		Barium						
		Beryllium						
		Cadmium						
		Calcium						
		Chromium						
		Cobalt						
		Copper						
		Iron						
		Lead						
		Magnesium						
		Manganese						
		Nickel						
		Selenium						
		Silver						
		Thallium						
		Vanadium						
		Zinc						
827	ICP K QSM			***DESIGNATED MATRIX SPIKE***	5/10/2011	11/24/2010		NeedPrep
828	ICP NA QSM			***DESIGNATED MATRIX SPIKE***	5/10/2011	11/24/2010		NeedPrep
833	MERCURY QSM			***DESIGNATED MATRIX SPIKE***	12/9/2010	11/24/2010		NeedPrep
855	PCB QSM			***DESIGNATED MATRIX SPIKE***		11/24/2010		NeedPrep
859	PESTICIDES QSM			***DESIGNATED MATRIX SPIKE***		11/24/2010		NeedPrep

Folder #: 82458 **Company:** *USACE - LOUISVILLE* **Project:** RAVENNA ORE PILES

SAMPLE #: 871197 **DESCR:** DLASS-042-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/11/2010 **Time:** 1220 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
891	EXPLOSIVES NITROGUAN			***DESIGNATED MATRIX SPIKE***		11/24/2010		NeedPrep
906	8330B EXPLOSIVES QSM			***DESIGNATED MATRIX SPIKE***		11/24/2010		NeedPrep
946	HOMOGEN/M.I. PREP			***DESIGNATED MATRIX SPIKE***		11/24/2010		Logged
951	HEX CHROME QSM SOIL			***DESIGNATED MATRIX SPIKE***		11/24/2010		NeedPrep

SAMPLE #: 871198 **DESCR:** DLASS-032-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/11/2010 **Time:** 0900 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT			***DESIGNATED MATRIX SPIKE***	11/25/2010	11/24/2010		Logged
780	SVOC 8270 QSM			***DESIGNATED MATRIX SPIKE***		11/24/2010		NeedPrep
796	NITROCELLULOSE			***DESIGNATED MATRIX SPIKE***		11/24/2010		NeedPrep
817	ICP QSM			***DESIGNATED MATRIX SPIKE***	5/10/2011	11/24/2010		NeedPrep
		Aluminum						
		Antimony						
		Arsenic						
		Barium						
		Beryllium						
		Cadmium						
		Calcium						
		Chromium						
		Cobalt						
		Copper						
		Iron						
		Lead						
		Magnesium						
		Manganese						
		Nickel						
		Selenium						
		Silver						

Folder #: 82458 **Company:** *USACE - LOUISVILLE* **Project:** RAVENNA ORE PILES

SAMPLE #: 871198 **DESCR:** DLASS-032-0001-SO **MATRIX:** SOIL **SAMPLED:** 11/11/2010 **Time:** 0900 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
		Thallium						
		Vanadium						
		Zinc						
827	ICP K QSM			***DESIGNATED MATRIX SPIKE***	5/10/2011	11/24/2010		NeedPrep
828	ICP NA QSM			***DESIGNATED MATRIX SPIKE***	5/10/2011	11/24/2010		NeedPrep
833	MERCURY QSM			***DESIGNATED MATRIX SPIKE***	12/9/2010	11/24/2010		NeedPrep
855	PCB QSM			***DESIGNATED MATRIX SPIKE***		11/24/2010		NeedPrep
859	PESTICIDES QSM			***DESIGNATED MATRIX SPIKE***		11/24/2010		NeedPrep
891	EXPLOSIVES NITROGUAN			***DESIGNATED MATRIX SPIKE***		11/24/2010		NeedPrep
906	8330B EXPLOSIVES QSM			***DESIGNATED MATRIX SPIKE***		11/24/2010		NeedPrep
946	HOMOGEN/M.I. PREP			***DESIGNATED MATRIX SPIKE***		11/24/2010		Logged
951	HEX CHROME QSM SOIL			***DESIGNATED MATRIX SPIKE***		11/24/2010		NeedPrep

Folder #: 82458 **Company:** *USACE - LOUISVILLE* **Project:** RAVENNA ORE PILES

Invoice Number: 82594 **Preliminary Invoice Estimate:** $ 5,878.00

Item	Matrix	Quantity	Price	Expedited TAT Surcharge	Total
8330B EXPLOSIVES QSM	SOIL	4	$ 73.50	0.00	$ 294.00
EXPLOSIVES NITROGUAN	SOIL	4	$ 89.25	0.00	$ 357.00
HEX CHROME QSM SOIL	SOIL	14	$ 52.50	0.00	$ 735.00
HOMOGEN/M.I. PREP	SOIL	14	$ 57.75	0.00	$ 808.50
ICP K QSM	SOIL	14	$ 5.00	0.00	$ 70.00
ICP NA QSM	SOIL	14	$ 5.00	0.00	$ 70.00
ICP QSM Aluminum	SOIL	14	$ 5.00	0.00	$ 70.00
ICP QSM Antimony	SOIL	14	$ 5.00	0.00	$ 70.00
ICP QSM Arsenic	SOIL	14	$ 5.00	0.00	$ 70.00
ICP QSM Barium	SOIL	14	$ 5.00	0.00	$ 70.00
ICP QSM Beryllium	SOIL	14	$ 5.00	0.00	$ 70.00
ICP QSM Cadmium	SOIL	14	$ 5.00	0.00	$ 70.00
ICP QSM Calcium	SOIL	14	$ 5.00	0.00	$ 70.00
ICP QSM Chromium	SOIL	14	$ 5.00	0.00	$ 70.00
ICP QSM Cobalt	SOIL	14	$ 5.00	0.00	$ 70.00
ICP QSM Copper	SOIL	14	$ 5.00	0.00	$ 70.00
ICP QSM Iron	SOIL	14	$ 5.00	0.00	$ 70.00
ICP QSM Lead	SOIL	14	$ 5.00	0.00	$ 70.00
ICP QSM Magnesium	SOIL	14	$ 5.00	0.00	$ 70.00
ICP QSM Manganese	SOIL	14	$ 5.00	0.00	$ 70.00
ICP QSM Nickel	SOIL	14	$ 5.00	0.00	$ 70.00
ICP QSM Selenium	SOIL	14	$ 5.00	0.00	$ 70.00
ICP QSM Silver	SOIL	14	$ 5.00	0.00	$ 70.00
ICP QSM Thallium	SOIL	14	$ 5.00	0.00	$ 70.00
ICP QSM Vanadium	SOIL	14	$ 5.00	0.00	$ 70.00
ICP QSM Zinc	SOIL	14	$ 5.00	0.00	$ 70.00
MERCURY QSM	SOIL	14	$ 26.25	0.00	$ 367.50
NITROCELLULOSE	SOIL	4	$ 77.00	0.00	$ 308.00
PCB QSM	SOIL	4	$ 73.50	0.00	$ 294.00

PESTICIDES QSM	SOIL	4	$ 73.50	0.00	$ 294.00
SOLIDS,PERCENT	SOIL	14	$ 0.00	0.00	$ 0.00
SVOC 8270 QSM	SOIL	4	$ 220.00	0.00	$ 880.00
Temporary Fuel Surcharge on lab supplies and services (if applicable):					$ 0.00

Bottle Information

Container	# Containers	Tests
SOLIDS	**14**	%SOL,CR6,HG,ICP,K,NA
UNPRES GL	**28**	%SOL,CR6,ICP,K,NA

CT LABORATORIES
delivering more than data from your environmental analyses

Sample Condition Report

Folder #: 82458
Client: USACE - LOUISVILLE

Print Date / Time: 11/12/2010 12:03
Received Date / Time / By: 11/12/2010 1038 PML

Project Name: RAVENNA ORE PILES
Project #: W912QR-10-D-0024

Log-In Date / Time / By: 11/12/2010 1156 PML
PM: PML

Coolers: SEE BELOW
Custody Seals Present : **Y**

Temperature: <3.6 C On Ice: **Y**
COC Present:? **Y** Complete? **Y**

Seal Intact? **Y**
Ship Method: FEDEX
Adequate Packaging: **Y**

Numbers: SIGNED&DATED
Tracking Number: MSTR# 871328730523
Temp Blank Enclosed? **Y**

Notes: ALL SAMPLES RECEIVED ON ICE AND INTACT.
CUSTODY SEALS AND TAPE WERE INTACT ON ALL COOLERS AT TIME OF RECEIPT.
CUSTODY SEALS SIGNED AND DATED
COOLER 3285, 3.6 DEGREES
COOLER-UNLABELED BLUE, 2.2 DEGREES
COOLER-UNLABELED GREEN, 0.3 DEGREES

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
871184 DLASS-032-0003-SO					
	SOLIDS	1		%SOL,CR6,HG,ICP,K,NA	
	Total # of Containers of Type (*SOLIDS*) = 1				
871184 DLASS-032-0003-SO					
	UNPRES GL	1		8270,EXPL,NC,PCB,PEST	
	UNPRES GL	1		8270,EXPL,NC,PCB,PEST	
	Total # of Containers of Type (*UNPRES GL*) = 2				
871186 DLASS-042-0003-SO					
	SOLIDS	1		%SOL,CR6,ICP,K,NA	
	Total # of Containers of Type (*SOLIDS*) = 1				
871186 DLASS-042-0003-SO					
	UNPRES GL	1		8270,EXPL,NC,PCB,PEST	
	UNPRES GL	1		8270,EXPL,NC,PCB,PEST	
	Total # of Containers of Type (*UNPRES GL*) = 2				
871187 DLASS-035-0001-SO					
	UNPRES GL	1		%SOL,CR6,ICP,K,	
	Total # of Containers of Type (*UNPRES GL*) = 1				
871187 DLASS-035-0001-SO					
	SOLIDS	1		%SOL,CR6,ICP,K,NA	
	Total # of Containers of Type (*SOLIDS*) = 1				
871187 DLASS-035-0001-SO					
	UNPRES GL	1		%SOL,CR6,ICP,K,NA	
	Total # of Containers of Type (*UNPRES GL*) = 1				

82458

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
871188 DLASS-036-0001-SO					
	UNPRES GL	1		%SOL,CR6,ICP,K,NA	
	Total # of Containers of Type (*UNPRES GL*) = 1				
871188 DLASS-036-0001-SO					
	SOLIDS	1		%SOL,CR6,ICP,K,NA	
	Total # of Containers of Type (*SOLIDS*) = 1				
871188 DLASS-036-0001-SO					
	UNPRES GL	1		%SOL,CR6,ICP,K,NA	
	Total # of Containers of Type (*UNPRES GL*) = 1				

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
871189 DLASS-031-0001-SO					
	SOLIDS	1		%SOL,CR6,ICP,K,NA	
	Total # of Containers of Type (*SOLIDS*) = 1				
871189 DLASS-031-0001-SO					
	UNPRES GL	1		%SOL,CR6,ICP,K,NA	
	UNPRES GL	1		%SOL,CR6,ICP,K,NA	
	Total # of Containers of Type (*UNPRES GL*) = 2				

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
871190 DLASS-039-0001-SO					
	SOLIDS	1		%SOL,CR6,ICP,K,NA	
	Total # of Containers of Type (*SOLIDS*) = 1				
871190 DLASS-039-0001-SO					
	UNPRES GL	1		%SOL,CR6,ICP,K,NA	
	UNPRES GL	1		%SOL,CR6,ICP,K,NA	
	Total # of Containers of Type (*UNPRES GL*) = 2				

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
871191 DLASS-037-0001-SO					
	SOLIDS	1		%SOL,CR6,ICP,K,NA	
	Total # of Containers of Type (*SOLIDS*) = 1				
871191 DLASS-037-0001-SO					
	UNPRES GL	1		%SOL,CR6,ICP,K,NA	
	UNPRES GL	1		%SOL,CR6,ICP,K,NA	
	Total # of Containers of Type (*UNPRES GL*) = 2				

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
871192 DLASS-034-0001-SO					
	SOLIDS	1		%SOL,CR6,ICP,K,NA	
	Total # of Containers of Type (*SOLIDS*) = 1				
871192 DLASS-034-0001-SO					
	UNPRES GL	1		%SOL,CR6,ICP,K,NA	
	UNPRES GL	1		%SOL,CR6,ICP,K,NA	
	Total # of Containers of Type (*UNPRES GL*) = 2				

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
871193 DLASS-038-0001-SO					
	SOLIDS	1		%SOL,CR6,ICP,K,NA	
	Total # of Containers of Type (*SOLIDS*) = 1				
871193 DLASS-038-0001-SO					
	UNPRES GL	1		%SOL,CR6,ICP,K,NA	
	UNPRES GL	1		%SOL,CR6,ICP,K,NA	
	Total # of Containers of Type (*UNPRES GL*) = 2				
871194 DLASS-044-0001-SO					
	SOLIDS	1		%SOL,CR6,ICP,K,NA	
	Total # of Containers of Type (*SOLIDS*) = 1				
871194 DLASS-044-0001-SO					
	UNPRES GL	1		%SOL,CR6,ICP,K,NA	
	UNPRES GL	1		%SOL,CR6,ICP,K,NA	
	Total # of Containers of Type (*UNPRES GL*) = 2				
871195 DLASS-041-0001-SO					
	SOLIDS	1		%SOL,CR6,ICP,K,NA	
	Total # of Containers of Type (*SOLIDS*) = 1				
871195 DLASS-041-0001-SO					
	UNPRES GL	1		%SOL,CR6,ICP,K,NA	
	UNPRES GL	1		%SOL,CR6,ICP,K,NA	
	Total # of Containers of Type (*UNPRES GL*) = 2				
871196 DLASS-040-0001-SO					
	SOLIDS	1		%SOL,CR6,ICP,K,NA	
	Total # of Containers of Type (*SOLIDS*) = 1				
871196 DLASS-040-0001-SO					
	UNPRES GL	1		%SOL,CR6,ICP,K,NA	
	UNPRES GL	1		%SOL,CR6,ICP,K,NA	
	Total # of Containers of Type (*UNPRES GL*) = 2				
871197 DLASS-042-0001-SO					
	SOLIDS	1		%SOL,CR6,ICP,K,NA	
	Total # of Containers of Type (*SOLIDS*) = 1				
871197 DLASS-042-0001-SO					
	UNPRES GL	1		8270,EXPL,NC,PCB,PEST	
	UNPRES GL	1		8270,EXPL,NC,PCB,PEST	
	Total # of Containers of Type (*UNPRES GL*) = 2				
871198 DLASS-032-0001-SO					
	SOLIDS	1		%SOL,CR6,ICP,K,NA	
	Total # of Containers of Type (*SOLIDS*) = 1				
871198 DLASS-032-0001-SO					

UNPRES GL	1		8270,EXPL,NC,PCB,PEST
UNPRES GL	1		8270,EXPL,NC,PCB,PEST

Total # of Containers of Type (*UNPRES GL*) = 2

.....

Condition Code	*Condition Description*
1	Sample Received OK

82458

FedEx Express US Airbill

FedEx Tracking Number 8713 2873 0523

Recipient's Copy

1 From

Date 11/9/10

Sender's Name [redacted] Phone [redacted]

Company [redacted]

Address [redacted] Dept./Floor/Suite/Room

City [redacted] State [redacted] ZIP [redacted]

2 Your Internal Billing Reference

3 To

Recipient's Name [redacted] Phone [redacted]

Company [redacted]

HOLD Weekday — Print FedEx location address below. NOT available for FedEx First Overnight.

HOLD Saturday — Print FedEx location address below. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Address [redacted] Dept./Floor/Suite/Room

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address

Print FedEx location address here if a HOLD option is selected.

City [redacted] State WI ZIP [redacted]

8713 2873 0523

4a Express Package Service * To most locations. Packages up to 150 lbs.

- [ ] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [x] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

4b Express Freight Service ** To most locations. Packages over 150 lbs.

- [ ] FedEx 1Day Freight — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected. FedEx 1Day Freight Booking No.
- [ ] FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.
- [ ] FedEx Box
- [ ] FedEx Tube
- [x] Other

6 Special Handling and Delivery Signature Options

- [ ] SATURDAY Delivery — NOT available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.

- [x] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Someone at recipient's address may sign for delivery. Fee applies.
- [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.

Does this shipment contain dangerous goods? One box must be checked.

- [x] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

- [ ] Cargo Aircraft Only

7 Payment Bill to:

- [ ] Sender — Acct. No. in Section 1 will be billed
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

Enter FedEx Acct. No. or Credit Card No. below. Obtain Recip. Acct. No. [ ]

Total Packages	Total Weight	Total Declared Value†	Credit Card Auth.
1	16 lbs.	$ .00	

†Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

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fedex.com 1.800.GoFedEx 1.800.463.3339

CUSTODY SEAL

Person Collecting Sample [redacted] (Signature) Sample No. [redacted]

Date Collected 11/11/10 Time Collected [redacted]

RML
11-12-10
1038
Cooler # 3285
onice
3.6°

FedEx® US Airbill
Express

8713 2873 0523

0200 Form ID No.

FedEx Copy

From

Date 11/11/10 Sender's FedEx Account Number 0402-0541-1

Sender's Name DEREK KINDER Phone 502 554-3515

Company ARMY CORPS OF ENGINEERS

Address 8451 ST. RT 5 BLDG 1036 Dept./Floor/Suite/Room

City RAVENNA State OH ZIP 44266

Your Internal Billing Reference

To

Recipient's Name PAT LETTERER Phone 608 356-2760

Company CT LABORATORIES

1 ☐ HOLD Weekday Print FedEx location address below. NOT available for FedEx First Overnight.

31 ☐ HOLD Saturday Print FedEx location address below. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Address 1230 LANGE CT

We cannot deliver to P.O. boxes or P.O. ZIP codes. Dept./Floor/Suite/Room

Address

Print FedEx location address here if a HOLD option is selected.

City BARABOO State WI ZIP 53913

8713 2873 0523

4a Express Package Service * To most locations. Packages up to 150 lbs.

1 ☐ FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

5 ☑ FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

6 ☐ FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.

3 ☐ FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

20 ☐ FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

4b Express Freight Service ** To most locations. Packages over 150 lbs.

7 ☐ FedEx 1Day Freight — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected. FedEx 1Day Freight Booking No.

8 ☐ FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

83 ☐ FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

6 ☐ FedEx Envelope* 2 ☐ FedEx Pak* Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak. 3 ☐ FedEx Box 4 ☐ FedEx Tube 1 ☑ Other

6 Special Handling and Delivery Signature Options

3 ☐ **SATURDAY DELIVERY**

☐ No Signature Required — Package may be left without obtaining a signature for delivery.

10 ☐ Direct Signature — Someone at recipient's address may sign for delivery. Fee applies.

34 ☐ Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.

Does this shipment contain dangerous goods?

One box must be checked.

1 ☑ No 4 ☐ Yes As per attached Shipper's Declaration. ☐ Yes Shipper's Declaration not required. 6 ☐ Dry Ice Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

☐ Cargo Aircraft Only

7 Payment *Bill to:*

1 ☑ Sender Acct. No. in Section 1 will be billed. 2 ☐ Recipient 3 ☐ Third Party 4 ☐ Credit Card 5 ☐ Cash/Check

Enter FedEx Acct. No. or Credit Card No. below. Obtain Recip. Acct. No. ☐

FedEx Acct. No. / Credit Card No. Exp. Date

Total Packages	Total Weight	Total Declared Value†	Credit Card Auth.
1	____ lbs.	$ ____ .00	

†Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

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[redacted] CUSTODY SEAL

Person Collecting Sample _____ Sample No. _____

Date Collected _____ Time Collected _____

RML
11-12-10
1038
Cooler Unlabeled - Blue
on ice
2.2°

FedEx® US Airbill
Express

8713 2873 0545

0200 Form ID No.

FedEx Copy

1 From

Date 11/11/10 Sender's FedEx Account Number 0402-0541-1

Sender's Name DEREK KINDER Phone 502 554-3575

Company ARMY CORPS OF ENGINEERS

Address 8451 ST. RT 5 BLDG 1036

Dept./Floor/Suite/Room

City RAVENNA State OH ZIP 44266

2 Your Internal Billing Reference

3 To

Recipient's Name PAT LETTERER Phone 608 356-2760

Company CT LABORATORIES

HOLD Weekday ☐ Print FedEx location address below. NOT available for FedEx First Overnight. 31 ☐

HOLD Saturday Print FedEx location address below. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Address 1230 LANGE CT

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

Address

Print FedEx location address here if a HOLD option is selected.

City BARABOO State WI ZIP 53913

8713 2873 0545

4a Express Package Service * To most locations. Packages up to 150 lbs.

1 ☐ FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

5 ☑ FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

6 ☐ FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.

3 ☐ FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

20 ☐ FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

4b Express Freight Service ** To most locations. Packages over 150 lbs.

7 ☐ FedEx 1Day Freight — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected. FedEx 1Day Freight Booking No.

8 ☐ FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

83 ☐ FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

6 ☐ FedEx Envelope* 2 ☐ FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak. 3 ☐ FedEx Box 4 ☐ FedEx Tube 1 ☑ Other

6 Special Handling and Delivery Signature Options

3 ☐ SATURDAY DELIVERY

No Signature Required ☐ Package may be left without obtaining a signature for delivery.

10 ☐ Direct Signature — Someone at recipient's address may sign for delivery. Fee applies.

34 ☐ Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.

Does this shipment contain dangerous goods?

One box must be checked.

1 ☑ No 4 ☐ Yes As per attached Shipper's Declaration. ☐ Yes Shipper's Declaration not required. 6 ☐ Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

☐ Cargo Aircraft Only

7 Payment *Bill to:*

1 ☑ Sender Acct. No. in Section 1 will be billed. 2 ☐ Recipient 3 ☐ Third Party 4 ☐ Credit Card 5 ☐ Cash/Check

Enter FedEx Acct. No. or Credit Card No. below. Obtain Recip. Acct. No. ☐

FedEx Acct. No. / Credit Card No. Exp. Date

Total Packages 1 Total Weight ____ lbs. Total Declared Value† $ ____ .00 Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

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This Airbill was found under Airbill # 8713 2873 0523 on the same cooler. (# Unlabeled).

PML
11-12-10

FedEx® US Airbill
Express

8713 2873 0523

0200 Form ID No.

FedEx Copy

From

Date 11/11/10 Sender's FedEx Account Number 0402-0541-1

Sender's Name DEREK KINDER Phone 502 554-3515

Company ARMY CORPS OF ENGINEERS

Address 8451 ST. RT 5 BLDG 1036

Dept./Floor/Suite/Room

City RAVENNA State OH ZIP 44266

Your Internal Billing Reference

To

Recipient's Name PAT LETTERER Phone 608 356-2760

Company CT LABORATORIES

1 ☐ HOLD Weekday — Print FedEx location address below. NOT available for FedEx First Overnight

31 ☐ HOLD Saturday — Print FedEx location address below. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Address 1230 LANGE CT

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

Address

Print FedEx location address here if a HOLD option is selected.

City BARABOO State WI ZIP 53913

8713 2873 0523

4a Express Package Service * To most locations. **Packages up to 150 lbs.**

1 ☐ FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

5 ☑ FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

6 ☐ FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.

3 ☐ FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

20 ☐ FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

4b Express Freight Service ** To most locations. **Packages over 150 lbs.**

7 ☐ FedEx 1Day Freight — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

FedEx 1Day Freight Booking No.

8 ☐ FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

83 ☐ FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

6 ☐ FedEx Envelope* 2 ☐ FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak. 3 ☐ FedEx Box 4 ☐ FedEx Tube 1 ☑ Other

6 Special Handling and Delivery Signature Options

3 ☐ **SATURDAY DELIVERY**

☐ No Signature Required — Package may be left without obtaining a signature for delivery.

10 ☐ Direct Signature — Someone at recipient's address may sign for delivery. Fee applies.

34 ☐ Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.

Does this shipment contain dangerous goods?

One box must be checked.

☑ No 4 ☐ Yes — As per attached Shipper's Declaration. ☐ Yes — Shipper's Declaration not required. 6 ☐ Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

☐ Cargo Aircraft Only

7 Payment *Bill to:*

Obtain Recip. Acct. No. ☐

Enter FedEx Acct. No. or Credit Card No. below.

1 ☑ Sender — Acct. No. in Section 1 will be billed. 2 ☐ Recipient 3 ☐ Third Party 4 ☐ Credit Card 5 ☐ Cash/Check

FedEx Acct. No. or Credit Card No. Exp. Date

Total Packages	Total Weight	Total Declared Value†	Credit Card Auth.
1	____ lbs.	$ ____ .00	

†Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

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CUSTODY SEAL

Person Collecting Sample _____ (Signature) Sample No. _____

Date Collected 11/11/10 Time Collected _____

Cooler # = Unlabeled - Green

PML

11-12-10

1038

on ice

0.3°

FedEx USA Airbill 814881380948 0200 Form I.D. No.

FedEx Billing Copy

1 From

Date 11/11/10 Sender's FedEx Account Number 0402-0541-1

Sender's Name Derek Kinder Phone 502 554-3515

Company Army Corps of Engineers

Address 8451 St Rt 5

Dept/Floor/Suite/Room

City [redacted] Ravenna State OH ZIP 44266

2 Your Internal Billing Reference

3 To

Recipient's Name Pat Letterer Phone 608 3562760

Company CT Laboratories

Address 1230 Lange Ct

We cannot deliver to P.O. boxes or P.O. ZIP codes. Dept/Floor/Suite/Room

To "HOLD" at FedEx location, print FedEx address here.

City Baraboo State WI ZIP 53913

814881380948

4a Express Package Service — Packages up to 150 lbs. Delivery commitment may be later in some areas.

1 ☐ FedEx Priority Overnight (Next business morning)
5 ☑ FedEx Standard Overnight (Next business afternoon)
6 ☐ FedEx First Overnight (Earliest next business morning delivery to select locations)
3 ☐ FedEx 2Day* (Second business day)
20 ☐ FedEx Express Saver* (Third business day)

* FedEx Letter Rate not available. Minimum charge: One-pound rate

4b Express Freight Service — Packages over 150 lbs. Delivery commitment may be later in some areas.

7 ☐ FedEx 1Day Freight* (Next business day)
8 ☐ FedEx 2Day Freight (Second business day)
83 ☐ FedEx 3Day Freight (Third business day)

* Call for Confirmation: _____

5 Packaging — * Declared value limit $500

6 ☐ FedEx Letter*
2 ☐ FedEx Pak*
1 ☑ Other Pkg. (Includes FedEx Box, FedEx Tube, and customer pkg.)

6 Special Handling

3 ☐ Saturday Delivery (Available for FedEx Priority Overnight and FedEx 2Day to select ZIP codes)
33 ☐ Sunday Delivery (Available for FedEx Priority Overnight to select ZIP codes)
1 ☐ HOLD Weekday at FedEx Location (Not available with FedEx First Overnight)
31 ☐ HOLD Saturday at FedEx Location (Available for FedEx Priority Overnight and FedEx 2Day to select locations)

Does this shipment contain dangerous goods? One box must be checked.

☑ No
4 ☐ Yes As per attached Shipper's Declaration
☐ Yes Shipper's Declaration not required
6 ☐ Dry Ice Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous Goods cannot be shipped in FedEx packaging.

☐ Cargo Aircraft Only

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below ☐ Obtain FedEx Acct. No.

1 ☑ Sender (Acct. No. in Section 1 will be billed.)
2 ☐ Recipient
3 ☐ Third Party
4 ☐ Credit Card
5 ☐ Cash/Check

FedEx Acct. No. / Credit Card No. Exp. Date

Total Packages	Total Weight	Total Declared Value†	Total Charges
1		$ .00	Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See the *FedEx Service Guide* for details.

8 Release Signature *Sign to authorize delivery without obtaining signature.*

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

360

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This Airbill was found under Airbill # 871328730523, in cooler # unlabeled - Green cooler.

PML 11-12-10